TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

December 20, 2010

TestAmerica Project Number: G0L110441
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 December 11, 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

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TestAmerica West Sacramento Project Number G0L110441

Case Narrative

TestAmerica West Sacramento Project Number G0L110441

AIR, TO-13, Semivolatile Organics
Sample(s): 3, 6, 9, 12
The surrogate recoveries for the samples are low and outside criteria. However, the surrogate recoveries in the associated method blank were within established control limits. The results may be biased low. The matrix effect was confirmed by visible chromatographic interferences.

AIR, TO-9, Dioxins/Furans
Sample(s): 2, 5
Several analytes in samples 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.

Sample(s): 11
The result for 2, 3, 7, 8-TCDF is reported from the confirmation analysis that occurred on December 16, 2010.

There were no other anomalies associated with this project.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ACCREDITED IN ACCORDANCE WITH nelac

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 G0L110441

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
MA8C9	1	UW-12072010B	12/7/2010 04:50 PM	12/11/2010 08:50 AM
MA8DF	2	UW-12072010B	12/7/2010 04:44 PM	12/11/2010 08:50 AM
MA8DG	3	UW-12072010B	12/7/2010 04:46 PM	12/11/2010 08:50 AM
MA8DH	4	DW-12072010B	12/7/2010 05:16 PM	12/11/2010 08:50 AM
MA8DJ	5	DW-12072010B	12/7/2010 05:12 PM	12/11/2010 08:50 AM
MA8DK	6	DW-12072010B	12/7/2010 05:14 PM	12/11/2010 08:50 AM
MA8DL	7	UW-12082010B	12/8/2010 05:20 PM	12/11/2010 08:50 AM
MA8DM	8	UW-12082010B	12/8/2010 05:10 PM	12/11/2010 08:50 AM
MA8DN	9	UW-12082010B	12/8/2010 05:12 PM	12/11/2010 08:50 AM
MA8DR	10	DW-12082010B	12/8/2010 05:42 PM	12/11/2010 08:50 AM
MA8DT	11	DW-12082010B	12/8/2010 05:36 PM	12/11/2010 08:50 AM
MA8DV	12	DW-12082010B	12/8/2010 05:38 PM	12/11/2010 08:50 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: 1 of 1
Cooler # 1 of 1

COC # 2027.07.0021

Total # of Samples: 12 Event Complete?

Required Ship to Lab:		Required Project Information:		Required Invoice Information:	
Lab Name:	Test America Laboratories Inc	Site ID #:102	TRONOX LLC. HENDERSON	Send Invoice to:	Susan Crowley Tronox LLC.
Address:	880 Riverside Parkway	Project #	2027.07	Address:	PO Box 55
	West Sacramento, CA 95605	Site Address	560 W Lake Mead Pkwy	City/State:	Henderson, NV 89009 Phone #: (949) 260-9293
Lab PM:	David Alltucker	City	Henderson State, Zip NV, 89015	PO #	
Phone/FaH:	(916) 373-5600	Site PM Name	Ted Splitter	Send EDD to	Frank.Hagar@ngem.com
Lab PM email	David.Alltucker@testamericainc.com	Phone/FaH:	(610) 435-4609	CC Hardcopy report to	PDF Electronic Version Only -- FTP Upload
Applicable Lab Quote #:		Site PM Email:	Ted.Splitter@ngem.com	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)	Analysis: TO-9A/DioHns, Furans	TO-13A/8270C/HCB	TSP	6020/As/Mn/PCP/MS	Filtered	Preservative
	UW-12072010B		AA			12/7/2010	4:50 PM	1	909.37			X	X		
	UW-12072010B		AA			12/7/2010	4:44 PM	1	573.68	X					
	UW-12072010B		AA			12/7/2010	4:46 PM	1	602.35		X				
	DW-12072010B		AA			12/7/2010	5:16 PM	1	898.4			X	X		
	DW-12072010B		AA			12/7/2010	5:12 PM	1	626.62	X					
	DW-12072010B		AA			12/7/2010	5:14 PM	1	807.23		X				
	UW-12082010B		AA			12/8/2010	5:20 PM	1	957.26			X	X		
	UW-12082010B		AA			12/8/2010	5:10 PM	1	598.19	X					
	UW-12082010B		AA			12/8/2010	5:12 PM	1	628.04		X				
	DW-12082010B		AA			12/8/2010	5:42 PM	1	954.91			X	X		
	DW-12082010B		AA			12/8/2010	5:36 PM	1	632.04	X					
	DW-12082010B		AA			12/8/2010	5:38 PM	1	636.98		X				

Additional Comments/Special Instructions:
3-5 DAY TURN AROUND

Ronda S. Bailey		12/9/10	1700	Chang Vue	12/10/10 0925

Sample Receipt Conditions

Temp in OC	Samples on Ice?	Sample intact?	Trip Blank?
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

PRINT Name of SAMPLER: Ronda Bailey
SIGNATURE of SAMPLER: DATE Signed 12/9/10 Time: 1700

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT Northgate PM DA LOG # 68522

LOT# (QUANTIMS ID) G0L110441 QUOTE# 54067 LOCATION 101YD AC

Checked (✓)

DATE RECEIVED 12/11/10 TIME RECEIVED 0850 ☑

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) NA

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

COC #(S) 2027.07.0021 ☑

TEMPERATURE BLANK Observed: NA Corrected:

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: 3 Average 3 Corrected Average 3

LABORATORY THERMOMETER ID:

IR UNIT: #4 ☑ #5 ☐ ☐ OTHER ☑ ew 12/11/10

Initials: CV Date: ~~12/10~~ 12/11/10

==========

pH MEASURED ☐ YES ☐ ANOMALY ☑ N/A ☑

LABELED BY ☑

LABELS CHECKED BY ☑

PEER REVIEW ☑ NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING ☑

WETCHEM ☑ N/A ☑

VOA-ENCORES ☑ N/A ☑

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

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

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

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

Initials: CV Date: 12/11/10

Notes

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

testAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: ~~G0H~~ G0L110441

Q 1/2/11/10

	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

AIR, TO-13, Semivolatile Organics

Northgate Environmental Management, Inc.

Sample ID: UW-12072010B

Trace Level Compounds

Lot - Sample #....:	G0L110441 - 003	**Work Order #....:**	MA8DG1AA	**Matrix.....:**	AA
Date Sampled....:	12/07/10	**Date Received....:**	12/11/10	**Dilution Factor....:**	1
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	602.35
Prep Batch # ....:	0347431	**Instrument ID....:**	5MH	**Method....:**	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Kenny Q. Truong		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
Hexachlorobenzene	ND	0.017	0.0022	ug/m3

SURROGATE	PERCENT RECOVERY		RECOVERY LIMITS
1,2-Dichlorobenzene-d4	53	*	60 - 120
2-Fluorobiphenyl	46	*	58 - 105
2-Fluorophenol	60		41 - 105
Nitrobenzene-d5	61		46 - 118
Phenol-d5	67		43 - 122
Terphenyl-d14	24	*	69 - 110
2,4,6-Tribromophenol	28	*	61 - 118

QUALIFIERS

* Surrogate recovery is outside stated control limits.

Northgate Environmental Management, Inc.

Sample ID: DW-12072010B

Trace Level Compounds

Lot - Sample #....:	G0L110441 - 006	**Work Order #....:**	MA8DK1AA	**Matrix....:**	AA
Date Sampled....:	12/07/10	**Date Received....:**	12/11/10	**Dilution Factor....:**	1
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	607.23
Prep Batch # ....:	0347431	**Instrument ID....:**	5MH	**Method....:**	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Kenny Q. Truong		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Hexachlorobenzene	**0.0085**	**J**	**0.016**	**0.0021**	**ug/m3**

SURROGATE	PERCENT RECOVERY		RECOVERY LIMITS
1,2-Dichlorobenzene-d4	58	*	60 - 120
2-Fluorobiphenyl	48	*	58 - 105
2-Fluorophenol	59		41 - 105
Nitrobenzene-d5	67		46 - 118
Phenol-d5	72		43 - 122
Terphenyl-d14	21	*	69 - 110
2,4,6-Tribromophenol	24	*	61 - 118

QUALIFIERS

* Surrogate recovery is outside stated control limits.

J Estimated Result.

Northgate Environmental Management, Inc.

Sample ID: UW-12082010B

Trace Level Compounds

Lot - Sample #....:	G0L110441 - 009	**Work Order #....:**	MA8DN1AA	**Matrix....:**	AA
Date Sampled....:	12/08/10	**Date Received....:**	12/11/10	**Dilution Factor....:**	1
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	628.04
Prep Batch # ....:	0347431	**Instrument ID....:**	5MH	**Method....:**	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Kenny Q. Truong		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
Hexachlorobenzene	ND	0.016	0.0021	ug/m3

SURROGATE	PERCENT RECOVERY		RECOVERY LIMITS
1,2-Dichlorobenzene-d4	59	*	60 - 120
2-Fluorobiphenyl	79		58 - 105
2-Fluorophenol	62		41 - 105
Nitrobenzene-d5	76		46 - 118
Phenol-d5	72		43 - 122
Terphenyl-d14	85		69 - 110
2,4,6-Tribromophenol	90		61 - 118

QUALIFIERS

* Surrogate recovery is outside stated control limits.

Northgate Environmental Management, Inc.

Sample ID: DW-12082010B

Trace Level Compounds

Lot - Sample #....:	G0L110441 - 012	**Work Order #....:**	MA8DV1AA	**Matrix....:**	AA
Date Sampled....:	12/08/10	**Date Received....:**	12/11/10	**Dilution Factor....:**	1
Prep Date....:	12/13/10	**Analysis Date....:**	12/16/10	**Volume....:**	636.98
Prep Batch # ....:	0347431	**Instrument ID....:**	5MH	**Method....:**	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Kenny Q. Truong		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Hexachlorobenzene	**0.0066**	**J**	**0.016**	**0.0020**	**ug/m3**

SURROGATE	PERCENT RECOVERY		RECOVERY LIMITS
1,2-Dichlorobenzene-d4	60		60 - 120
2-Fluorobiphenyl	63		58 - 105
2-Fluorophenol	65		41 - 105
Nitrobenzene-d5	75		46 - 118
Phenol-d5	74		43 - 122
Terphenyl-d14	61	*	69 - 110
2,4,6-Tribromophenol	55	*	61 - 118

QUALIFIERS

* Surrogate recovery is outside stated control limits.

J Estimated Result.

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QC DATA ASSOCIATION SUMMARY

G0L110441

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AA	CFR50B APDX B		0349408	
	AA	SW846 6020		0349267	
002	AA	EPA-2 TO-9		0348441	
003	AA	EPA-2 TO-13		0347431	
004	AA	CFR50B APDX B		0349408	
	AA	SW846 6020		0349267	
005	AA	EPA-2 TO-9		0348441	
006	AA	EPA-2 TO-13		0347431	
007	AA	CFR50B APDX B		0349408	
	AA	SW846 6020		0349267	
008	AA	EPA-2 TO-9		0348441	
009	AA	EPA-2 TO-13		0347431	
010	AA	CFR50B APDX B		0349408	
	AA	SW846 6020		0349267	
011	AA	EPA-2 TO-9		0348441	
012	AA	EPA-2 TO-13		0347431	

Method Blank Report

Trace Level Compounds

Lot - Sample #....:	G0L130000 - 431B	**Work Order #....:**	MA9001AA	**Matrix....:**	AIR
Date Sampled....:	12/07/10	**Date Received....:**	12/11/10	**Dilution Factor....:**	1
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	0
Prep Batch # ....:	0347431	**Instrument ID....:**	5MH	**Method....:**	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Kenny Q. Truong		

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichlorobenzene-d4	74	60 - 120
2-Fluorobiphenyl	87	58 - 105
2-Fluorophenol	71	41 - 105
Nitrobenzene-d5	83	46 - 118
Phenol-d5	81	43 - 122
Terphenyl-d14	85	69 - 110
2,4,6-Tribromophenol	80	61 - 118

QUALIFIERS

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...:	G0L110441	**Work Order # ...:**	MA9001AC-LCS MA9001AD-LCSD	**Matrix .....:**	AIR
LCS Lot-Sample# :	G0L130000 - 431				
Prep Date .....:	12/13/10	**Analysis Date ..:**	12/15/10		
Prep Batch # ...:	0347431				
Dilution Factor :	1				
Analyst ID.....:	Kenny Q. Truong	**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**	**85.0**	**ug**	**85**	**(70 - 110)**		
	100	**91.6**	**ug**	**92**	**(70 - 110)**	**7.4**	**(0 - 30)**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	85	(58 - 105)
	84	(58 - 105)
2-Fluorophenol	76	(41 - 105)
	73	(41 - 105)
Nitrobenzene-d5	84	(46 - 118)
	79	(46 - 118)
Phenol-d5	80	(43 - 122)
	79	(43 - 122)
Terphenyl-d14	79	(69 - 110)
	83	(69 - 110)
2,4,6-Tribromophenol	93	(61 - 118)
	104	(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-12072010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0L110441 - 002	**Work Order #....:**	MA8DF1AA	**Matrix....:**	AA
Date Sampled....:	12/07/10	**Date Received....:**	12/11/10	**Instrument ID....:**	9D5
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	573.68
Prep Batch # ....:	0348441	**Dilution Factor....:**	2	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Susan X. Yan		

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	ND		100	0.1	0
1,2,3,7,8,9-HxCDD	ND		100	0.1	0
Total HxCDD	**3.3**		**100**		
1,2,3,4,6,7,8-HpCDD	**11**	**J B**	**100**	**0.01**	**0.00019**
Total HpCDD	**20**		**100**		
OCDD	**34**	**J B**	**200**	**0.0003**	**0.000018**
2,3,7,8-TCDF	**16**	**J**	**20**	**0.1**	**0.0028**
Total TCDF	**26**		**20**		
1,2,3,7,8-PeCDF	ND		100	0.03	0
2,3,4,7,8-PeCDF	ND		100	0.3	0
Total PeCDF	**14**		**100**		
1,2,3,4,7,8-HxCDF	**12**	**J Q**	**100**	**0.1**	**0.0021**
1,2,3,6,7,8-HxCDF	**10**	**J**	**100**	**0.1**	**0.0017**
2,3,4,6,7,8-HxCDF	ND		100	0.1	0
1,2,3,7,8,9-HxCDF	ND		100	0.1	0
Total HxCDF	**50**		**100**		
1,2,3,4,6,7,8-HpCDF	**41**	**J B**	**100**	**0.01**	**0.00071**
1,2,3,4,7,8,9-HpCDF	**13**	**J**	**100**	**0.01**	**0.00023**
Total HpCDF	**77**		**100**		
OCDF	**120**	**J B**	**200**	**0.0003**	**0.000063**
Total TEQ Concentration					**0.0078**

\\qsacsql1\QDSApps\TEQ\WHO_205_TEQ_ND_0)_Air.rpt 12/20/2010

Northgate Environmental Management, Inc.

Sample ID: UW-12072010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0L110441 - 002	**Work Order #....:**	MA8DF1AA	**Matrix....:**	AA
Date Sampled....:	12/07/10	**Date Received....:**	12/11/10	**Instrument ID....:**	9D5
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	573.68
Prep Batch # ....:	0348441	**Dilution Factor....:**	2	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Susan X. Yan		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	92	50 - 120
13C-1,2,3,7,8-PeCDD	92	50 - 120
13C-1,2,3,6,7,8-HxCDD	96	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	104	40 - 120
13C-OCDD	104	40 - 120
13C-2,3,7,8-TCDF	89	50 - 120
13C-1,2,3,7,8-PeCDF	89	50 - 120
13C-1,2,3,4,7,8-HxCDF	91	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	106	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	95	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-12072010B

Trace Level Compounds

Lot - Sample #....:	G0L110441 - 002	**Work Order #....:**	MA8DF1AA	**Matrix....:**	AA
Date Sampled....:	12/07/10	**Date Received....:**	12/11/10	**Dilution Factor....:**	2
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	573.68
Prep Batch # ....:	0348441	**Instrument ID....:**	9D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Susan X. Yan		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		0.035	0.0045	pg/m3
Total TCDD	ND		0.035	0.0045	pg/m3
1,2,3,7,8-PeCDD	ND		0.17	0.0075	pg/m3
Total PeCDD	ND		0.17	0.0075	pg/m3
1,2,3,4,7,8-HxCDD	ND		0.17	0.0026	pg/m3
1,2,3,6,7,8-HxCDD	ND		0.17	0.0024	pg/m3
1,2,3,7,8,9-HxCDD	ND		0.17	0.0028	pg/m3
Total HxCDD	**0.0058**		**0.17**	**0.0024**	**pg/m3**
1,2,3,4,6,7,8-HpCDD	**0.019**	**J B**	**0.17**	**0.0015**	**pg/m3**
Total HpCDD	**0.034**		**0.17**	**0.0015**	**pg/m3**
OCDD	**0.058**	**J B**	**0.35**	**0.0049**	**pg/m3**
2,3,7,8-TCDF	**0.028**	**J**	**0.035**	**0.013**	**pg/m3**
Total TCDF	**0.046**		**0.035**	**0.013**	**pg/m3**
1,2,3,7,8-PeCDF	ND		0.17	0.014	pg/m3
2,3,4,7,8-PeCDF	ND		0.17	0.015	pg/m3
Total PeCDF	**0.024**		**0.17**	**0.014**	**pg/m3**
1,2,3,4,7,8-HxCDF	**0.021**	**J Q**	**0.17**	**0.0070**	**pg/m3**
1,2,3,6,7,8-HxCDF	**0.018**	**J**	**0.17**	**0.0066**	**pg/m3**
2,3,4,6,7,8-HxCDF	ND		0.17	0.0070	pg/m3
1,2,3,7,8,9-HxCDF	ND		0.17	0.0078	pg/m3
Total HxCDF	**0.087**		**0.17**	**0.0071**	**pg/m3**
1,2,3,4,6,7,8-HpCDF	**0.071**	**J B**	**0.17**	**0.0035**	**pg/m3**
1,2,3,4,7,8,9-HpCDF	**0.022**	**J**	**0.17**	**0.0042**	**pg/m3**
Total HpCDF	**0.13**		**0.17**	**0.0038**	**pg/m3**
OCDF	**0.21**	**J B**	**0.35**	**0.0045**	**pg/m3**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	92	50 - 120
13C-1,2,3,7,8-PeCDD	92	50 - 120
13C-1,2,3,6,7,8-HxCDD	96	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	104	40 - 120
13C-OCDD	104	40 - 120
13C-2,3,7,8-TCDF	89	50 - 120
13C-1,2,3,7,8-PeCDF	89	50 - 120
13C-1,2,3,4,7,8-HxCDF	91	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	106	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	95	50 - 120

Northgate Environmental Management, Inc.

Sample ID: UW-12072010B

Trace Level Compounds

Lot - Sample #....:	G0L110441 - 002	**Work Order #....:**	MA8DF1AA	**Matrix....:**	AA
Date Sampled....:	12/07/10	**Date Received....:**	12/11/10	**Dilution Factor....:**	2
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	573.68
Prep Batch # ....:	0348441	**Instrument ID....:**	9D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Susan X. Yan		

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).

Northgate Environmental Management, Inc.

Sample ID: DW-12072010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0L110441 - 005	**Work Order #....:**	MA8DJ1AA	**Matrix....:**	AA
Date Sampled....:	12/07/10	**Date Received....:**	12/11/10	**Instrument ID....:**	9D5
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	626.62
Prep Batch # ....:	0348441	**Dilution Factor....:**	2	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Susan X. Yan		

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	ND		100	0.1	0
1,2,3,7,8,9-HxCDD	ND		100	0.1	0
Total HxCDD	ND		100		0
1,2,3,4,6,7,8-HpCDD	**7.4**	**J B**	**100**	**0.01**	**0.00012**
Total HpCDD	**15**		**100**		
OCDD	**24**	**J B**	**200**	**0.0003**	**0.000011**
2,3,7,8-TCDF	**18**	**J**	**20**	**0.1**	**0.0029**
Total TCDF	**150**		**20**		
1,2,3,7,8-PeCDF	ND		100	0.03	0
2,3,4,7,8-PeCDF	ND		100	0.3	0
Total PeCDF	**25**		**100**		
1,2,3,4,7,8-HxCDF	**5.6**	**J Q**	**100**	**0.1**	**0.00089**
1,2,3,6,7,8-HxCDF	**4.5**	**J**	**100**	**0.1**	**0.00072**
2,3,4,6,7,8-HxCDF	ND		100	0.1	0
1,2,3,7,8,9-HxCDF	ND		100	0.1	0
Total HxCDF	**17**		**100**		
1,2,3,4,6,7,8-HpCDF	**16**	**J Q B**	**100**	**0.01**	**0.00026**
1,2,3,4,7,8,9-HpCDF	**5.1**	**J**	**100**	**0.01**	**0.000081**
Total HpCDF	**30**		**100**		
OCDF	**37**	**J B**	**200**	**0.0003**	**0.000018**
Total TEQ Concentration					**0.0050**

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Northgate Environmental Management, Inc.

Sample ID: DW-12072010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0L110441 - 005	**Work Order #....:**	MA8DJ1AA	**Matrix....:**	AA
Date Sampled....:	12/07/10	**Date Received....:**	12/11/10	**Instrument ID....:**	9D5
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	626.62
Prep Batch # ....:	0348441	**Dilution Factor....:**	2	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Susan X. Yan		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	94	50 - 120
13C-1,2,3,7,8-PeCDD	98	50 - 120
13C-1,2,3,6,7,8-HxCDD	95	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	101	40 - 120
13C-OCDD	100	40 - 120
13C-2,3,7,8-TCDF	92	50 - 120
13C-1,2,3,7,8-PeCDF	90	50 - 120
13C-1,2,3,4,7,8-HxCDF	91	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	102	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	94	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).

Northgate Environmental Management, Inc.

Sample ID: DW-12072010B

Trace Level Compounds

Lot - Sample #....:	G0L110441 - 005	**Work Order #....:**	MA8DJ1AA	**Matrix....:**	AA
Date Sampled....:	12/07/10	**Date Received....:**	12/11/10	**Dilution Factor....:**	2
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	626.62
Prep Batch # ....:	0348441	**Instrument ID....:**	9D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Susan X. Yan		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		0.032	0.0046	pg/m3
Total TCDD	ND		0.032	0.0046	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	0.0027	pg/m3
1,2,3,6,7,8-HxCDD	ND		0.16	0.0026	pg/m3
1,2,3,7,8,9-HxCDD	ND		0.16	0.0026	pg/m3
Total HxCDD	ND		0.16	0.0038	pg/m3
1,2,3,4,6,7,8-HpCDD	**0.012**	**J B**	**0.16**	**0.0016**	**pg/m3**
Total HpCDD	**0.024**		**0.16**	**0.0016**	**pg/m3**
OCDD	**0.038**	**J B**	**0.32**	**0.0051**	**pg/m3**
2,3,7,8-TCDF	**0.028**	**J**	**0.032**	**0.013**	**pg/m3**
Total TCDF	**0.23**		**0.032**	**0.013**	**pg/m3**
1,2,3,7,8-PeCDF	ND		0.16	0.012	pg/m3
2,3,4,7,8-PeCDF	ND		0.16	0.012	pg/m3
Total PeCDF	**0.040**		**0.16**	**0.012**	**pg/m3**
1,2,3,4,7,8-HxCDF	**0.0089**	**J Q**	**0.16**	**0.0057**	**pg/m3**
1,2,3,6,7,8-HxCDF	**0.0072**	**J**	**0.16**	**0.0054**	**pg/m3**
2,3,4,6,7,8-HxCDF	ND		0.16	0.0059	pg/m3
1,2,3,7,8,9-HxCDF	ND		0.16	0.0064	pg/m3
Total HxCDF	**0.027**		**0.16**	**0.0059**	**pg/m3**
1,2,3,4,6,7,8-HpCDF	**0.025**	**J Q B**	**0.16**	**0.0029**	**pg/m3**
1,2,3,4,7,8,9-HpCDF	**0.0082**	**J**	**0.16**	**0.0034**	**pg/m3**
Total HpCDF	**0.048**		**0.16**	**0.0030**	**pg/m3**
OCDF	**0.059**	**J B**	**0.32**	**0.0040**	**pg/m3**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	94	50 - 120
13C-1,2,3,7,8-PeCDD	98	50 - 120
13C-1,2,3,6,7,8-HxCDD	95	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	101	40 - 120
13C-OCDD	100	40 - 120
13C-2,3,7,8-TCDF	92	50 - 120
13C-1,2,3,7,8-PeCDF	90	50 - 120
13C-1,2,3,4,7,8-HxCDF	91	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	102	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	94	50 - 120

Northgate Environmental Management, Inc.

Sample ID: DW-12072010B

Trace Level Compounds

Lot - Sample #....:	G0L110441 - 005	**Work Order #....:**	MA8DJ1AA	**Matrix....:**	AA
Date Sampled....:	12/07/10	**Date Received....:**	12/11/10	**Dilution Factor....:**	2
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	626.62
Prep Batch # ....:	0348441	**Instrument ID....:**	9D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Susan X. Yan		

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).

Northgate Environmental Management, Inc.

Sample ID: UW-12082010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0L110441 - 008	**Work Order #....:**	MA8DM1AA	**Matrix....:**	AA
Date Sampled....:	12/08/10	**Date Received....:**	12/11/10	**Instrument ID....:**	9D5
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	598.19
Prep Batch # ....:	0348441	**Dilution Factor....:**	2	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Susan X. Yan		

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND		20	1.0	0
Total TCDD	**2.7**		**20**		
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	ND		100	0.1	0
1,2,3,7,8,9-HxCDD	ND		100	0.1	0
Total HxCDD	**3.0**		**100**		
1,2,3,4,6,7,8-HpCDD	**9.2**	**J B**	**100**	**0.01**	**0.00015**
Total HpCDD	**19**		**100**		
OCDD	**26**	**J B**	**200**	**0.0003**	**0.000013**
2,3,7,8-TCDF	**14**	**J**	**20**	**0.1**	**0.0023**
Total TCDF	**14**		**20**		
1,2,3,7,8-PeCDF	ND		100	0.03	0
2,3,4,7,8-PeCDF	ND		100	0.3	0
Total PeCDF	**15**		**100**		
1,2,3,4,7,8-HxCDF	**15**	**J**	**100**	**0.1**	**0.0025**
1,2,3,6,7,8-HxCDF	**9.4**	**J**	**100**	**0.1**	**0.0016**
2,3,4,6,7,8-HxCDF	ND		100	0.1	0
1,2,3,7,8,9-HxCDF	ND		100	0.1	0
Total HxCDF	**43**		**100**		
1,2,3,4,6,7,8-HpCDF	**36**	**J B**	**100**	**0.01**	**0.00060**
1,2,3,4,7,8,9-HpCDF	**12**	**J**	**100**	**0.01**	**0.00020**
Total HpCDF	**68**		**100**		
OCDF	**76**	**J B**	**200**	**0.0003**	**0.000038**
Total TEQ Concentration					**0.0074**

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Northgate Environmental Management, Inc.

Sample ID: UW-12082010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0L110441 - 008	**Work Order #....:**	MA8DM1AA	**Matrix....:**	AA
Date Sampled....:	12/08/10	**Date Received....:**	12/11/10	**Instrument ID....:**	9D5
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	598.19
Prep Batch # ....:	0348441	**Dilution Factor....:**	2	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Susan X. Yan		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	94	50 - 120
13C-1,2,3,7,8-PeCDD	92	50 - 120
13C-1,2,3,6,7,8-HxCDD	99	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	108	40 - 120
13C-OCDD	103	40 - 120
13C-2,3,7,8-TCDF	90	50 - 120
13C-1,2,3,7,8-PeCDF	89	50 - 120
13C-1,2,3,4,7,8-HxCDF	94	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	107	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	96	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.

Northgate Environmental Management, Inc.

Sample ID: UW-12082010B

Trace Level Compounds

Lot - Sample #....:	G0L110441 - 008	**Work Order #....:**	MA8DM1AA	**Matrix....:**	AA
Date Sampled....:	12/08/10	**Date Received....:**	12/11/10	**Dilution Factor....:**	2
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	598.19
Prep Batch # ....:	0348441	**Instrument ID....:**	9D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Susan X. Yan		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		0.033	0.0040	pg/m3
Total TCDD	**0.0045**		**0.033**	**0.0040**	**pg/m3**
1,2,3,7,8-PeCDD	ND		0.17	0.0082	pg/m3
Total PeCDD	ND		0.17	0.0082	pg/m3
1,2,3,4,7,8-HxCDD	ND		0.17	0.0030	pg/m3
1,2,3,6,7,8-HxCDD	ND		0.17	0.0028	pg/m3
1,2,3,7,8,9-HxCDD	ND		0.17	0.0027	pg/m3
Total HxCDD	**0.0051**		**0.17**	**0.0028**	**pg/m3**
1,2,3,4,6,7,8-HpCDD	**0.015**	**J B**	**0.17**	**0.0017**	**pg/m3**
Total HpCDD	**0.031**		**0.17**	**0.0017**	**pg/m3**
OCDD	**0.043**	**J B**	**0.33**	**0.0053**	**pg/m3**
2,3,7,8-TCDF	**0.023**	**J**	**0.033**	**0.011**	**pg/m3**
Total TCDF	**0.023**		**0.033**	**0.011**	**pg/m3**
1,2,3,7,8-PeCDF	ND		0.17	0.016	pg/m3
2,3,4,7,8-PeCDF	ND		0.17	0.017	pg/m3
Total PeCDF	**0.025**		**0.17**	**0.017**	**pg/m3**
1,2,3,4,7,8-HxCDF	**0.025**	**J**	**0.17**	**0.0060**	**pg/m3**
1,2,3,6,7,8-HxCDF	**0.016**	**J**	**0.17**	**0.0059**	**pg/m3**
2,3,4,6,7,8-HxCDF	ND		0.17	0.0062	pg/m3
1,2,3,7,8,9-HxCDF	ND		0.17	0.0069	pg/m3
Total HxCDF	**0.073**		**0.17**	**0.0062**	**pg/m3**
1,2,3,4,6,7,8-HpCDF	**0.061**	**J B**	**0.17**	**0.0032**	**pg/m3**
1,2,3,4,7,8,9-HpCDF	**0.020**	**J**	**0.17**	**0.0037**	**pg/m3**
Total HpCDF	**0.11**		**0.17**	**0.0033**	**pg/m3**
OCDF	**0.13**	**J B**	**0.33**	**0.0043**	**pg/m3**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	94	50 - 120
13C-1,2,3,7,8-PeCDD	92	50 - 120
13C-1,2,3,6,7,8-HxCDD	99	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	108	40 - 120
13C-OCDD	103	40 - 120
13C-2,3,7,8-TCDF	90	50 - 120
13C-1,2,3,7,8-PeCDF	89	50 - 120
13C-1,2,3,4,7,8-HxCDF	94	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	107	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	96	50 - 120

Northgate Environmental Management, Inc.

Sample ID: UW-12082010B

Trace Level Compounds

Lot - Sample #....:	G0L110441 - 008	**Work Order #....:**	MA8DM1AA	**Matrix....:**	AA
Date Sampled....:	12/08/10	**Date Received....:**	12/11/10	**Dilution Factor....:**	2
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	598.19
Prep Batch # ....:	0348441	**Instrument ID....:**	9D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Susan X. Yan		

QUALIFIERS

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

J Estimated Result.

Northgate Environmental Management, Inc.

Sample ID: DW-12082010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0L110441 - 011	**Work Order #....:**	MA8DT1AA	**Matrix....:**	AA
Date Sampled....:	12/08/10	**Date Received....:**	12/11/10	**Instrument ID....:**	9D5
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	632.04
Prep Batch # ....:	0348441	**Dilution Factor....:**	2	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Susan X. Yan		

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND		20	1.0	0
Total TCDD	**9.5**		**20**		
1,2,3,7,8-PeCDD	ND		100	1.0	0
Total PeCDD	**6.6**		**100**		
1,2,3,4,7,8-HxCDD	**2.0**	**J**	**100**	**0.1**	**0.00032**
1,2,3,6,7,8-HxCDD	**3.5**	**J**	**100**	**0.1**	**0.00055**
1,2,3,7,8,9-HxCDD	**2.8**	**J**	**100**	**0.1**	**0.00044**
Total HxCDD	**14**		**100**		
1,2,3,4,6,7,8-HpCDD	**14**	**J B**	**100**	**0.01**	**0.00022**
Total HpCDD	**24**		**100**		
OCDD	**29**	**J B**	**200**	**0.0003**	**0.000014**
2,3,7,8-TCDF	**20**	**J CON**	**20**	**0.1**	**0.0032**
Total TCDF	**190**		**20**		
1,2,3,7,8-PeCDF	**27**	**J**	**100**	**0.03**	**0.0013**
2,3,4,7,8-PeCDF	**11**	**J**	**100**	**0.3**	**0.0052**
Total PeCDF	**170**		**100**		
1,2,3,4,7,8-HxCDF	**47**	**J**	**100**	**0.1**	**0.0074**
1,2,3,6,7,8-HxCDF	**35**	**J**	**100**	**0.1**	**0.0055**
2,3,4,6,7,8-HxCDF	**7.9**	**J**	**100**	**0.1**	**0.0012**
1,2,3,7,8,9-HxCDF	**5.7**	**J**	**100**	**0.1**	**0.00090**
Total HxCDF	**240**		**100**		
1,2,3,4,6,7,8-HpCDF	**130**	**B**	**100**	**0.01**	**0.0021**
1,2,3,4,7,8,9-HpCDF	**48**	**J**	**100**	**0.01**	**0.00076**
Total HpCDF	**260**		**100**		
OCDF	**310**	**B**	**200**	**0.0003**	**0.00015**
Total TEQ Concentration					**0.029**

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Northgate Environmental Management, Inc.

Sample ID: DW-12082010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0L110441 - 011	**Work Order #....:**	MA8DT1AA	**Matrix....:**	AA
Date Sampled....:	12/08/10	**Date Received....:**	12/11/10	**Instrument ID....:**	9D5
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	632.04
Prep Batch # ....:	0348441	**Dilution Factor....:**	2	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Susan X. Yan		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	94	50 - 120
13C-1,2,3,7,8-PeCDD	94	50 - 120
13C-1,2,3,6,7,8-HxCDD	93	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	104	40 - 120
13C-OCDD	101	40 - 120
13C-2,3,7,8-TCDF	88	50 - 120
13C-1,2,3,7,8-PeCDF	91	50 - 120
13C-1,2,3,4,7,8-HxCDF	93	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	104	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	94	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.

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Northgate Environmental Management, Inc.

Sample ID: DW-12082010B

Trace Level Compounds

Lot - Sample #....:	G0L110441 - 011	**Work Order #....:**	MA8DT1AA	**Matrix....:**	AA
Date Sampled....:	12/08/10	**Date Received....:**	12/11/10	**Dilution Factor....:**	2
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	632.04
Prep Batch # ....:	0348441	**Instrument ID....:**	9D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Susan X. Yan		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		0.032	0.0043	pg/m3
Total TCDD	**0.015**		**0.032**	**0.0043**	**pg/m3**
1,2,3,7,8-PeCDD	ND		0.16	0.0070	pg/m3
Total PeCDD	**0.010**		**0.16**	**0.0070**	**pg/m3**
1,2,3,4,7,8-HxCDD	**0.0032**	**J**	**0.16**	**0.0025**	**pg/m3**
1,2,3,6,7,8-HxCDD	**0.0055**	**J**	**0.16**	**0.0024**	**pg/m3**
1,2,3,7,8,9-HxCDD	**0.0044**	**J**	**0.16**	**0.0024**	**pg/m3**
Total HxCDD	**0.022**		**0.16**	**0.0024**	**pg/m3**
1,2,3,4,6,7,8-HpCDD	**0.022**	**J B**	**0.16**	**0.0019**	**pg/m3**
Total HpCDD	**0.038**		**0.16**	**0.0019**	**pg/m3**
OCDD	**0.046**	**J B**	**0.32**	**0.0044**	**pg/m3**
2,3,7,8-TCDF	**0.031**	**J CON**	**0.032**	**0.0063**	**pg/m3**
Total TCDF	**0.31**		**0.032**	**0.012**	**pg/m3**
1,2,3,7,8-PeCDF	**0.042**	**J**	**0.16**	**0.012**	**pg/m3**
2,3,4,7,8-PeCDF	**0.017**	**J**	**0.16**	**0.013**	**pg/m3**
Total PeCDF	**0.27**		**0.16**	**0.012**	**pg/m3**
1,2,3,4,7,8-HxCDF	**0.075**	**J**	**0.16**	**0.0076**	**pg/m3**
1,2,3,6,7,8-HxCDF	**0.056**	**J**	**0.16**	**0.0073**	**pg/m3**
2,3,4,6,7,8-HxCDF	**0.013**	**J**	**0.16**	**0.0078**	**pg/m3**
1,2,3,7,8,9-HxCDF	**0.0090**	**J**	**0.16**	**0.0085**	**pg/m3**
Total HxCDF	**0.38**		**0.16**	**0.0078**	**pg/m3**
1,2,3,4,6,7,8-HpCDF	**0.21**	**B**	**0.16**	**0.0036**	**pg/m3**
1,2,3,4,7,8,9-HpCDF	**0.075**	**J**	**0.16**	**0.0043**	**pg/m3**
Total HpCDF	**0.42**		**0.16**	**0.0040**	**pg/m3**
OCDF	**0.49**	**B**	**0.32**	**0.0051**	**pg/m3**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	94	50 - 120
13C-1,2,3,7,8-PeCDD	94	50 - 120
13C-1,2,3,6,7,8-HxCDD	93	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	104	40 - 120
13C-OCDD	101	40 - 120
13C-2,3,7,8-TCDF	88	50 - 120
13C-1,2,3,7,8-PeCDF	91	50 - 120
13C-1,2,3,4,7,8-HxCDF	93	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	104	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	94	50 - 120

Northgate Environmental Management, Inc.

Sample ID: DW-12082010B

Trace Level Compounds

Lot - Sample #....:	G0L110441 - 011	**Work Order #....:**	MA8DT1AA	**Matrix....:**	AA
Date Sampled....:	12/08/10	**Date Received....:**	12/11/10	**Dilution Factor....:**	2
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	632.04
Prep Batch # ....:	0348441	**Instrument ID....:**	9D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Susan X. Yan		

QUALIFIERS

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
CON	Confirmation analysis.
J	Estimated Result.

QC DATA ASSOCIATION SUMMARY

G0L110441

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AA	CFR50B APDX B		0349408	
	AA	SW846 6020		0349267	
002	AA	EPA-2 TO-9		0348441	
003	AA	EPA-2 TO-13		0347431	
004	AA	CFR50B APDX B		0349408	
	AA	SW846 6020		0349267	
005	AA	EPA-2 TO-9		0348441	
006	AA	EPA-2 TO-13		0347431	
007	AA	CFR50B APDX B		0349408	
	AA	SW846 6020		0349267	
008	AA	EPA-2 TO-9		0348441	
009	AA	EPA-2 TO-13		0347431	
010	AA	CFR50B APDX B		0349408	
	AA	SW846 6020		0349267	
011	AA	EPA-2 TO-9		0348441	
012	AA	EPA-2 TO-13		0347431	

Method Blank Report

Trace Level Compounds

Lot - Sample #....:	G0L140000 - 441B	**Work Order #....:**	MCCX21AA	**Matrix....:**	AIR
Date Sampled....:	12/07/10	**Date Received....:**	12/11/10	**Dilution Factor....:**	2
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	0
Prep Batch # ....:	0348441	**Instrument ID....:**	9D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Susan X. Yan		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		20	2.4	pg
Total TCDD	ND		20	2.4	pg
1,2,3,7,8-PeCDD	ND		100	4.1	pg
Total PeCDD	ND		100	4.1	pg
1,2,3,4,7,8-HxCDD	ND		100	1.4	pg
1,2,3,6,7,8-HxCDD	ND		100	1.4	pg
1,2,3,7,8,9-HxCDD	ND		100	1.3	pg
Total HxCDD	ND		100	2.0	pg
1,2,3,4,6,7,8-HpCDD	**2.7**	**J**	**100**	**0.90**	**pg**
Total HpCDD	**5.3**		**100**	**0.90**	**pg**
OCDD	**8.3**	**J**	**200**	**3.0**	**pg**
2,3,7,8-TCDF	ND		20	6.3	pg
Total TCDF	ND		20	6.3	pg
1,2,3,7,8-PeCDF	ND		100	6.7	pg
2,3,4,7,8-PeCDF	ND		100	6.9	pg
Total PeCDF	ND		100	6.9	pg
1,2,3,4,7,8-HxCDF	ND		100	2.9	pg
1,2,3,6,7,8-HxCDF	ND		100	2.8	pg
2,3,4,6,7,8-HxCDF	ND		100	2.9	pg
1,2,3,7,8,9-HxCDF	ND		100	3.2	pg
Total HxCDF	ND		100	3.2	pg
1,2,3,4,6,7,8-HpCDF	**1.6**	**J Q**	**100**	**1.2**	**pg**
1,2,3,4,7,8,9-HpCDF	ND		100	1.5	pg
Total HpCDF	**1.6**		**100**	**1.3**	**pg**
OCDF	**3.3**	**J**	**200**	**1.8**	**pg**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	91	50 - 120
13C-1,2,3,7,8-PeCDD	90	50 - 120
13C-1,2,3,6,7,8-HxCDD	95	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	106	40 - 120
13C-OCDD	99	40 - 120
13C-2,3,7,8-TCDF	85	50 - 120
13C-1,2,3,7,8-PeCDF	84	50 - 120
13C-1,2,3,4,7,8-HxCDF	90	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	103	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	97	50 - 120

Method Blank Report

Trace Level Compounds

Lot - Sample #....:	G0L140000 - 441B	**Work Order #....:**	MCCX21AA	**Matrix....:**	AIR
Date Sampled....:	12/07/10	**Date Received....:**	12/11/10	**Dilution Factor....:**	2
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	0
Prep Batch # ....:	0348441	**Instrument ID....:**	9D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Susan X. Yan		

QUALIFIERS

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...:	G0L110441	**Work Order # ...:**	MCCX21AC-LCS MCCX21AD-LCSD	**Matrix .....:**	AIR
LCS Lot-Sample# :	G0L140000 - 441				
Prep Date .....:	12/13/10	**Analysis Date ..:**	12/15/10		
Prep Batch # ...:	0348441				
Dilution Factor :	2				
Analyst ID.....:	Susan X. Yan	**Instrument ID..:**	9D5	**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**	**405**	**pg**	**101**	**(70 - 130)**		
	400	**423**	**pg**	**106**	**(70 - 130)**	**4.2**	**(0 - 30)**
1,2,3,7,8-PeCDD	**2000**	**1980**	**pg**	**99**	**(70 - 130)**		
	2000	**2100**	**pg**	**105**	**(70 - 130)**	**6.0**	**(0 - 30)**
1,2,3,4,7,8-HxCDD	**2000**	**1940**	**pg**	**97**	**(70 - 130)**		
	2000	**1950**	**pg**	**97**	**(70 - 130)**	**0.29**	**(0 - 30)**
1,2,3,6,7,8-HxCDD	**2000**	**2030**	**pg**	**102**	**(70 - 130)**		
	2000	**2200**	**pg**	**110**	**(70 - 130)**	**7.7**	**(0 - 30)**
1,2,3,7,8,9-HxCDD	**2000**	**2050**	**pg**	**102**	**(70 - 130)**		
	2000	**2210**	**pg**	**111**	**(70 - 130)**	**7.6**	**(0 - 30)**
1,2,3,4,6,7,8-HpCDD	**2000**	**2070**	**pg**	**103**	**(70 - 130)**		
	2000	**2140**	**pg**	**107**	**(70 - 130)**	**3.5**	**(0 - 30)**
OCDD	**4000**	**4020**	**pg**	**100**	**(70 - 130)**		
	4000	**4160**	**pg**	**104**	**(70 - 130)**	**3.3**	**(0 - 30)**
2,3,7,8-TCDF	**400**	**421**	**pg**	**105**	**(70 - 130)**		
	400	**440**	**pg**	**110**	**(70 - 130)**	**4.4**	**(0 - 30)**
1,2,3,7,8-PeCDF	**2000**	**2120**	**pg**	**106**	**(70 - 130)**		
	2000	**2260**	**pg**	**113**	**(70 - 130)**	**6.0**	**(0 - 30)**
2,3,4,7,8-PeCDF	**2000**	**2090**	**pg**	**104**	**(70 - 130)**		
	2000	**2220**	**pg**	**111**	**(70 - 130)**	**6.0**	**(0 - 30)**
1,2,3,4,7,8-HxCDF	**2000**	**2040**	**pg**	**102**	**(70 - 130)**		
	2000	**2130**	**pg**	**106**	**(70 - 130)**	**4.1**	**(0 - 30)**
1,2,3,6,7,8-HxCDF	**2000**	**2110**	**pg**	**105**	**(70 - 130)**		
	2000	**2210**	**pg**	**110**	**(70 - 130)**	**4.5**	**(0 - 30)**
2,3,4,6,7,8-HxCDF	**2000**	**2140**	**pg**	**107**	**(70 - 130)**		
	2000	**2280**	**pg**	**114**	**(70 - 130)**	**6.2**	**(0 - 30)**
1,2,3,7,8,9-HxCDF	**2000**	**2160**	**pg**	**108**	**(70 - 130)**		
	2000	**2250**	**pg**	**112**	**(70 - 130)**	**4.3**	**(0 - 30)**
1,2,3,4,6,7,8-HpCDF	**2000**	**2040**	**pg**	**102**	**(70 - 130)**		
	2000	**2160**	**pg**	**108**	**(70 - 130)**	**5.5**	**(0 - 30)**
1,2,3,4,7,8,9-HpCDF	**2000**	**2070**	**pg**	**104**	**(70 - 130)**		
	2000	**2130**	**pg**	**107**	**(70 - 130)**	**2.9**	**(0 - 30)**
OCDF	**4000**	**3880**	**pg**	**97**	**(70 - 130)**		
	4000	**4000**	**pg**	**100**	**(70 - 130)**	**3.1**	**(0 - 30)**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	93	(50 - 120)
	90	(50 - 120)
13C-1,2,3,7,8-PeCDD	95	(50 - 120)
	91	(50 - 120)
13C-1,2,3,6,7,8-HxCDD	95	(50 - 120)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...: G0L110441 **Work Order # ...:** MCCX21AC-LCS **Matrix .....:** AIR
LCS Lot-Sample# : G0L140000 - 441 MCCX21AD-LCSD

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
	92	(50 - 120)
13C-1,2,3,4,6,7,8-HpCDD	101	(40 - 120)
	104	(40 - 120)
13C-OCDD	98	(40 - 120)
	99	(40 - 120)
13C-2,3,7,8-TCDF	89	(50 - 120)
	86	(50 - 120)
13C-1,2,3,7,8-PeCDF	89	(50 - 120)
	85	(50 - 120)
13C-1,2,3,4,7,8-HxCDF	88	(50 - 120)
	87	(50 - 120)
13C-1,2,3,4,6,7,8-HpCDF	101	(40 - 120)
	101	(40 - 120)

Notes:

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

Bold print denotes control parameters

AIR, Metals by ICPMS (As and Mn)

Northgate Environmental Management, Inc.

Sample ID: UW-12072010B

Trace Level Compounds

Lot - Sample #....:	G0L110441 - 001	**Work Order #....:**	MA8C91AC	**Matrix....:**	AA
Date Sampled....:	12/07/10	**Date Received....:**	12/11/10	**Dilution Factor....:**	1
Prep Date....:	12/15/10	**Analysis Date....:**	12/15/10	**Volume....:**	909.37
Prep Batch # ....:	0349267	**Instrument ID....:**	M01	**Method....:**	SW846 6020
Initial Wgt/Vol....:	0.08333 L	**Analyst ID....:**	Sabine Hargrave		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Arsenic	**0.0021**	**B**	**0.0026**	**0.00054**	**ug/m3**
Manganese	**3.32**	**J**	**0.00132**	**0.000187**	**ug/m3**

QUALIFIERS

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

J Estimated Result.

Northgate Environmental Management, Inc.

Sample ID: DW-12072010B

Trace Level Compounds

Lot - Sample #....:	G0L110441 - 004	**Work Order #....:**	MA8DH1AC	**Matrix....:**	AA
Date Sampled....:	12/07/10	**Date Received....:**	12/11/10	**Dilution Factor....:**	1
Prep Date....:	12/15/10	**Analysis Date....:**	12/15/10	**Volume....:**	898.4
Prep Batch # ....:	0349267	**Instrument ID....:**	M01	**Method....:**	SW846 6020
Initial Wgt/Vol....:	0.08333 L	**Analyst ID....:**	Sabine Hargrave		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Arsenic	**0.00068**	**B**	**0.0027**	**0.00055**	**ug/m3**
Manganese	**0.206**	**J**	**0.00134**	**0.000189**	**ug/m3**

QUALIFIERS

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

J Estimated Result.

Northgate Environmental Management, Inc.

Sample ID: UW-12082010B

Trace Level Compounds

Lot - Sample #....:	G0L110441 - 007	**Work Order #....:**	MA8DL1AC	**Matrix....:**	AA
Date Sampled....:	12/08/10	**Date Received....:**	12/11/10	**Dilution Factor....:**	1
Prep Date....:	12/15/10	**Analysis Date....:**	12/15/10	**Volume....:**	957.26
Prep Batch # ....:	0349267	**Instrument ID....:**	M01	**Method....:**	SW846 6020
Initial Wgt/Vol....:	0.08333 L	**Analyst ID....:**	Sabine Hargrave		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Arsenic	**0.0017**	**B**	**0.0025**	**0.00051**	**ug/m3**
Manganese	**5.66**	**J**	**0.00125**	**0.000178**	**ug/m3**

QUALIFIERS

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

J Estimated Result.

Northgate Environmental Management, Inc.

Sample ID: DW-12082010B

Trace Level Compounds

Lot - Sample #....:	G0L110441 - 010	**Work Order #....:**	MA8DR1AC	**Matrix.....:**	AA
Date Sampled....:	12/08/10	**Date Received....:**	12/11/10	**Dilution Factor.....:**	1
Prep Date....:	12/15/10	**Analysis Date....:**	12/15/10	**Volume....:**	954.91
Prep Batch # ....:	0349267	**Instrument ID....:**	M01	**Method....:**	SW846 6020
Initial Wgt/Vol....:	0.08333 L	**Analyst ID....:**	Sabine Hargrave		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Arsenic	**0.00094**	**B**	**0.0025**	**0.00051**	**ug/m3**
Manganese	**0.853**	**J**	**0.00126**	**0.000178**	**ug/m3**

QUALIFIERS

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

J Estimated Result.

QC DATA ASSOCIATION SUMMARY

G0L110441

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AA	SW846 6020		0349267	
004	AA	SW846 6020		0349267	
007	AA	SW846 6020		0349267	
010	AA	SW846 6020		0349267	

Method Blank Report

Trace Level Compounds

Lot - Sample #....:	G0L150000 - 267B	**Work Order #....:**	MCDVG1AA	**Matrix....:**	AIR
Date Sampled....:	12/07/10	**Date Received....:**	12/11/10	**Dilution Factor....:**	1
Prep Date....:	12/15/10	**Analysis Date....:**	12/15/10	**Volume....:**	0
Prep Batch # ....:	0349267	**Instrument ID....:**	M01	**Method....:**	SW846 6020
Initial Wgt/Vol....:	0.08333 L	**Analyst ID....:**	Sabine Hargrave		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Arsenic	ND		2.4	0.49	ug
Manganese	**0.43**	**B**	**1.2**	**0.17**	**ug**

QUALIFIERS

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

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...:	G0L110441	**Work Order # ...:**	MCDVG1AD-LCS MCDVG1AE-LCSD	**Matrix .....:**	AIR
LCS Lot-Sample# :	G0L150000 - 267				
Prep Date .....:	12/15/10	**Analysis Date ..:**	12/15/10		
Prep Batch # ...:	0349267				
Dilution Factor :	1				
Analyst ID.....:	Sabine Hargrave	**Instrument ID..:**	M01	**Method.....:**	SW846 6020
Initial Wgt/Vol:	0.08333 L				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
Arsenic	**240**	**220**	**ug**	**92**	**(86 - 110)**		
	240	**222**	**ug**	**92**	**(86 - 110)**	**0.95**	**(0 - 15)**
Manganese	**240**	**226**	**ug**	**94**	**(88 - 110)**		
	240	**226**	**ug**	**94**	**(88 - 110)**	**0.060**	**(0 - 15)**

Notes:

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

Bold print denotes control parameters

AIR, TSP-
Total Suspended
Particulates

Northgate Environmental Management, Inc.

Sample ID: UW-12072010B

Trace Level Compounds

Lot - Sample #....:	G0L110441 - 001	**Work Order #....:**	MA8C91AA	**Matrix....:**	AA
Date Sampled....:	12/07/10	**Date Received....:**	12/11/10	**Dilution Factor....:**	1
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	909.37
Prep Batch # ....:	0349408	**Instrument ID....:**	QA-045	**Method....:**	CFR50B APDX B
Initial Wgt/Vol....:	0	**Analyst ID....:**	Thep Phomsopha		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
Total Suspended Particulates	**0.0000725**	**0.000000550**	--	**g/m3**

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: DW-12072010B

Trace Level Compounds

Lot - Sample #....:	G0L110441 - 004	**Work Order #....:**	MA8DH1AA	**Matrix....:**	AA
Date Sampled....:	12/07/10	**Date Received....:**	12/11/10	**Dilution Factor....:**	1
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	898.4
Prep Batch # ....:	0349408	**Instrument ID....:**	QA-045	**Method....:**	CFR50B APDX B
Initial Wgt/Vol....:		**Analyst ID....:**	Thep Phomsopha		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
Total Suspended Particulates	**0.0000185**	**0.000000557**	--	**g/m3**

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: UW-12082010B

Trace Level Compounds

Lot - Sample #....:	G0L110441 - 007	**Work Order #....:**	MA8DL1AA	**Matrix....:**	AA
Date Sampled....:	12/08/10	**Date Received....:**	12/11/10	**Dilution Factor....:**	1
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	957.26
Prep Batch # ....:	0349408	**Instrument ID....:**	QA-045	**Method....:**	CFR50B APDX B
Initial Wgt/Vol....:		**Analyst ID....:**	Thep Phomsopha		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
Total Suspended Particulates	**0.0000885**	**0.000000522**	--	**g/m3**

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: DW-12082010B

Trace Level Compounds

Lot - Sample #....:	G0L110441 - 010	**Work Order #....:**	MA8DR1AA	**Matrix....:**	AA
Date Sampled....:	12/08/10	**Date Received....:**	12/11/10	**Dilution Factor....:**	1
Prep Date....:	12/13/10	**Analysis Date....:**	12/15/10	**Volume....:**	954.91
Prep Batch # ....:	0349408	**Instrument ID....:**	QA-045	**Method....:**	CFR50B APDX B
Initial Wgt/Vol....:		**Analyst ID....:**	Thep Phomsopha		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
Total Suspended Particulates	**0.0000650**	**0.000000524**	**--**	**g/m3**

QUALIFIERS

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: DFT1215A

Initiator/Date: KT-12/16/10 Standard ID: HSL1215A

Reviewer/Date: 12/16/10 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: N-Nitrosodimethylamine	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?	☒	☑

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?	☒	☑

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 : 121510A.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
15-DEC-2010	16:05	KT	DFTPP 50ug/ml	DFT1215A.	NA	NA	NA		
15-DEC-2010	16:26	KT	HSL_050 ug/ml CS-4	HSL1215A.	NA	NA	NA		
15-DEC-2010	16:50	KT	2010 Q4 AQ QL LOD/LOQ-MB	S121501.D	1000 mL	1 mL	1	QL	low IS Sou
15-DEC-2010	17:14	KT	2010 Q4 AQ QL LOD-1	S121502.D	1000 mL	1 mL	1	QL	
15-DEC-2010	17:39	KT	2010 Q4 AQ QL LOD-2	S121503.D	1000 mL	1 mL	1	QL	
15-DEC-2010	18:03	KT	2010 Q4 AQ QL LOQ-1	S121504.D	1000 mL	1 mL	1	QL	
15-DEC-2010	18:28	KT	2010 Q4 AQ QL LOQ-2	S121505.D	1000 mL	1 mL	1	QL	
15-DEC-2010	18:53	KT	2010 Q4 AQ QL LOQ-3	S121506.D	1000 mL	1 mL	1	QL	
15-DEC-2010	19:17	KT	2010 Q4 SOLID LOD/LOQ-MB	S121507.D	30 g	1 mL	1	QL	
15-DEC-2010	19:42	KT	2010 Q4 SOLID LOD-1	S121508.D	30 g	1 mL	1	QL	
15-DEC-2010	20:06	KT	2010 Q4 SOLID LOD-2	S121509.D	30 g	1 mL	1	QL	
15-DEC-2010	20:31	KT	2010 Q4 SOLID LOQ-1	S121510.D	30 g	1 mL	1	QL	
15-DEC-2010	20:55	KT	2010 Q4 SOLID LOQ-2	S121511.D	30 g	1 mL	1	QL	
15-DEC-2010	21:20	KT	2010 Q4 SOLID LOQ/LOD-3	S121512.D	30 g	1 mL	1	QL	
15-DEC-2010	21:44	KT	MA9001AA G0L130000-431B	S121513.D	1000 Sa	1 mL	1	JZ	
15-DEC-2010	22:09	KT	MA9001AC G0L130000-431C	S121514.D	1000 Sa	1 mL	1	JZ	
15-DEC-2010	22:33	KT	MA9001AD G0L130000-431L	S121515.D	1000 Sa	1 mL	1	JZ	
15-DEC-2010	22:58	KT	MA8DG1AA G0L110441-3	S121516.D	1000 Sa	1 mL	1	JZ	Low surr. Mass
15-DEC-2010	23:22	KT	MA8DK1AA G0L110441-6	S121517.D	1000 Sa	1 mL	1	JZ	
15-DEC-2010	23:47	KT	MA8DN1AA G0L110441-9	S121518.D	1000 Sa	1 mL	1	JZ	
16-DEC-2010	00:11	KT	MA8DV1AA G0L110441-12	S121519.D	1000 Sa	1 mL	1	JZ	
16-DEC-2010	00:36	KT	MCAPQ1AA G0L140000-268B	S121520.D	30 g	1 mL	1	QL	
16-DEC-2010	01:00	KT	MCAPQ1AC G0L140000-268C	S121521.D	30 g	1 mL	1	QL	
16-DEC-2010	01:25	KT	MCAPQ1AD G0L140000-268L	S121522.D	30 g	1 mL	1	QL	
16-DEC-2010	01:49	KT	MA6M91AA G0L100495-1	S121523.D	30.4 g	1 mL	1	QL	
16-DEC-2010	02:14	KT	MA6PN1AF G0L100495-3	S121524.D	29.73 g	1 mL	1	QL	
16-DEC-2010	02:39	KT	MA6PX1AF G0L100495-5	S121525.D	29.9 g	1 mL	1	QL	
16-DEC-2010	03:03	KT	MA6QC1AF G0L100495-7	S121526.D	29.81 g	1 mL	1	QL	
16-DEC-2010	03:28	KT	MA6QM1AF G0L100495-9	S121527.D	30.03 g	1 mL	1	QL	
16-DEC-2010	03:52	KT	2010 Q4 AQ QL LOD/LOQ-MB	S121528.D	1000 mL	1 mL	1	QL	

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 15-DEC-2010 16:26
Lab File ID: HSL1215A.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\121510A.B\8270f.m

	COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
|$	7 2-Fluorophenol	1.40992	1.37671	1.37671	0.010	-2.35530	50.00000	Averaged
|$	8 Phenol-d5	1.77296	1.75650	1.75650	0.010	-0.92856	50.00000	Averaged
|$	9 2-Chlorophenol-d4	1.55698	1.57518	1.57518	0.010	1.16863	50.00000	Averaged
|$	10 1,2-Dichlorobenzene-d4	0.98513	1.03172	1.03172	0.010	4.72985	50.00000	Averaged
|$	11 Nitrobenzene-d5	0.33879	0.35406	0.35406	0.010	4.50540	50.00000	Averaged
|$	12 2-Fluorobiphenyl	1.28852	1.30192	1.30192	0.010	1.03947	50.00000	Averaged
|$	13 2,4,6-Tribromophenol	0.17381	0.19651	0.19651	0.010	13.05888	50.00000	Averaged
|$	14 Terphenyl-d14	0.78789	0.85521	0.85521	0.010	8.54372	50.00000	Averaged
|15	N-Nitrosodimethylamine	0.92154	[illegible]	0.93273	0.010	1.21362	50.00000	Averaged
|16	Pyridine	1.54111	1.55192	1.55192	0.010	0.70131	50.00000	Averaged
|23	Aniline	2.25673	2.18972	2.18972	0.010	-2.96916	50.00000	Averaged
|24	Phenol	2.03729	1.97013	1.97013	0.010	-3.29649	20.00000	Averaged
|26	Bis(2-chloroethyl)ether	1.42859	1.43233	1.43233	0.010	0.26137	50.00000	Averaged
|27	2-Chlorophenol	1.56381	1.52711	1.52711	0.010	-2.34671	50.00000	Averaged
|28	1,3-Dichlorobenzene	1.70337	1.68222	1.68222	0.010	-1.24165	50.00000	Averaged
|29	1,4-Dichlorobenzene	1.78118	1.77853	1.77853	0.010	-0.14845	20.00000	Averaged
|30	Benzyl Alcohol	1.05101	0.98872	0.98872	0.010	-5.92640	50.00000	Averaged
|31	1,2-Dichlorobenzene	1.63746	1.65134	1.65134	0.010	0.84743	50.00000	Averaged
|32	2-Methylphenol	1.43012	1.34761	1.34761	0.010	-5.76956	50.00000	Averaged
|33	2,2'-oxybis(1-Chloropropane	2.27365	2.24573	2.24573	0.010	-1.22825	50.00000	Averaged
|34	4-Methylphenol	1.51904	1.45905	1.45905	0.010	-3.94937	50.00000	Averaged
|36	Hexachloroethane	0.60636	0.63189	0.63189	0.010	4.20891	50.00000	Averaged
|37	N-Nitrosodinpropylamine	1.01180	0.99953	0.99953	0.050	-1.21281	50.00000	Averaged
|42	Nitrobenzene	0.33116	0.33512	0.33512	0.010	1.19472	50.00000	Averaged
|44	Isophorone	0.63679	0.65601	0.65601	0.010	3.01912	50.00000	Averaged
|45	2-Nitrophenol	0.19648	0.20377	0.20377	0.010	3.71309	20.00000	Averaged
|46	2,4-Dimethyphenol	0.34911	0.36262	0.36262	0.010	3.86890	50.00000	Averaged
|47	Bis(2-chloroethoxy)methane	0.38908	0.38460	0.38460	0.010	-1.15184	50.00000	Averaged
|49	2,4-Dichlorophenol	0.27010	0.28338	0.28338	0.010	4.91827	20.00000	Averaged
|50	Benzoic Acid	0.19324	0.17347	0.17347	0.010	-10.22949	50.00000	Averaged
|51	1,2,4-Trichlorobenzene	0.29246	0.30926	0.30926	0.010	5.74597	50.00000	Averaged
|52	Naphthalene	1.10443	1.09385	1.09385	0.010	-0.95768	50.00000	Averaged
|54	4-Chloroaniline	0.43288	0.43635	0.43635	0.010	0.80331	50.00000	Averaged
|57	Hexachlorobutadiene	0.14313	0.16167	0.16167	0.010	12.95702	20.00000	Averaged
|60	4-Chloro-3-Methylphenol	0.30164	0.30812	0.30812	0.010	2.15144	20.00000	Averaged
|63	2-Methylnaphthalene	0.69378	0.71458	0.71458	0.010	2.99861	50.00000	Averaged
|66	Hexachlorocyclopentadiene	0.29846	0.29634	0.29634	0.050	-0.70911	50.00000	Averaged
|69	2,4,6-Trichlorophenol	0.31913	0.33602	0.33602	0.010	5.29275	20.00000	Averaged
|70	2,4,5-Trichlorphenol	0.34380	0.37834	0.37834	0.010	10.04756	50.00000	Averaged
|71	2-Chloronaphthalene	1.12571	1.17391	1.17391	0.010	4.28153	50.00000	Averaged
|73	2-Nitroaniline	0.34119	0.35413	0.35413	0.010	3.79526	50.00000	Averaged
|76	Dimethylphthalate	1.29606	1.34326	1.34326	0.010	3.64150	50.00000	Averaged

Manual calculation for N-Nitrosodimethylamine:

$\frac{133367}{114589} \times \frac{40}{50} = 0.93273$ RY 12/16/10

12/16/10

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 15-DEC-2010 16:26
Lab File ID: HSL1215A.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\121510A.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
77 Acenaphthylene	1.96037	1.99162	1.99162	0.010	1.59421	50.00000	Averaged
79 2,6-Dinitrotoluene	0.30197	0.31819	0.31819	0.010	5.37358	50.00000	Averaged
80 3-Nitroaniline	0.37691	0.38122	0.38122	0.010	1.14363	50.00000	Averaged
81 Acenaphthene	1.24787	1.21808	1.21808	0.010	-2.38677	20.00000	Averaged
82 2,4-Dinitrophenol	50.00000	46.67400	0.16391	0.050	-6.65199	0.000e+000	Quadratic
83 Dibenzofuran	1.65612	1.65145	1.65145	0.010	-0.28226	50.00000	Averaged
84 4-Nitrophenol	0.15634	0.17726	0.17726	0.050	13.38046	50.00000	Averaged
86 2,4-Dinitrotoluene	0.39633	0.42453	0.42453	0.010	7.11406	50.00000	Averaged
91 Fluorene	1.37139	1.40857	1.40857	0.010	2.71062	50.00000	Averaged
92 Diethylphthalate	1.32699	1.38178	1.38178	0.010	4.12857	50.00000	Averaged
93 4-Chlorophenyl-phenylether	0.57019	0.61471	0.61471	0.010	7.80738	50.00000	Averaged
94 4-Nitroaniline	0.37361	0.38006	0.38006	0.010	1.72570	50.00000	Averaged
97 4,6-Dinitro-2-methylphenol	50.00000	48.37341	0.13723	0.010	-3.25319	0.000e+000	Linear
98 N-Nitrosodiphenylamine	0.60628	0.61367	0.61367	0.010	1.21750	20.00000	Averaged
100 Azobenzene	0.78660	0.87307	0.87307	0.010	10.99280	50.00000	Averaged
101 4-Bromophenyl-phenylether	0.19527	0.20290	0.20290	0.010	3.90836	50.00000	Averaged
108 Hexachlorobenzene	0.21807	0.23054	0.23054	0.010	5.71939	50.00000	Averaged
110 Pentachlorophenol	50.00000	44.83046	0.11553	0.010	-10.33909	0.000e+000	Linear
114 Phenanthrene	1.26074	1.24917	1.24917	0.010	-0.91832	50.00000	Averaged
115 Anthracene	1.25955	1.27434	1.27434	0.010	1.17434	50.00000	Averaged
118 Carbazole	1.15061	1.12141	1.12141	0.010	-2.53770	50.00000	Averaged
120 Di-n-Butylphthalate	1.38442	1.41758	1.41758	0.010	2.39536	50.00000	Averaged
126 Fluoranthene	1.12969	1.13481	1.13481	0.010	0.45351	20.00000	Averaged
127 Benzidine	0.81067	0.81543	0.81543	0.010	0.58706	50.00000	Averaged
128 Pyrene	1.25025	1.35754	1.35754	0.010	8.58122	50.00000	Averaged
134 3,3'-dimethylbenzidine	0.71564	0.69214	0.69214	0.010	-3.28419	50.00000	Averaged
136 Butylbenzylphthalate	0.62663	0.65105	0.65105	0.010	3.89674	50.00000	Averaged
138 Benzo(a)Anthracene	1.06548	1.07631	1.07631	0.010	1.01679	50.00000	Averaged
139 Chrysene	1.08994	1.11507	1.11507	0.010	2.30629	50.00000	Averaged
140 3,3'-Dichlorobenzidine	0.40189	0.40812	0.40812	0.010	1.55023	50.00000	Averaged
141 bis(2-ethylhexyl)Phthalate	0.86316	0.90448	0.90448	0.010	4.78665	50.00000	Averaged
142 Di-n-octylphthalate	1.37975	1.41111	1.41111	0.010	2.27325	20.00000	Averaged
144 Benzo(b)fluoranthene	0.90549	0.93055	0.93055	0.010	2.76754	50.00000	Averaged
145 Benzo(k)fluoranthene	1.16236	1.28113	1.28113	0.010	10.21813	50.00000	Averaged
147 Benzo(e)pyrene	0.94425	0.99127	0.99127	0.010	4.97967	50.00000	Averaged
148 Benzo(a)pyrene	1.02655	1.07153	1.07153	0.010	4.38150	20.00000	Averaged
151 Indeno(1,2,3-cd)pyrene	0.83029	0.89183	0.89183	0.010	7.41153	50.00000	Averaged
152 Dibenzo(a,h)anthracene	0.92758	0.96311	0.96311	0.010	3.83069	50.00000	Averaged
153 Benzo(g,h,i)perylene	1.00427	1.05695	1.05695	0.010	5.24584	50.00000	Averaged
M 162 benzo b,k Fluoranthene Tota	2.06785	2.21168	2.21168	0.010	6.95559	50.00000	Averaged

TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\121510A.B\HSL1215A.D
Lab Smp Id: HSL_050 ug/ml CS-4 Client Smp ID: 8270F.M
Inj Date : 15-DEC-2010 16:26
Operator : KT 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\121510A.B\8270f.m
Meth Date : 16-Dec-2010 11:40 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: SACP307UM

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	3.470	3.470	(1.000)	114389	40.0000	
* 2	Naphthalene-d8	136	4.869	4.869	(1.000)	484975	40.0000	
* 3	Acenaphthene-d10	164	6.962	6.962	(1.000)	261605	40.0000	
* 4	Phenanthrene-d10	188	8.807	8.807	(1.000)	423913	40.0000	
* 5	Chrysene-d12	240	13.066	13.066	(1.000)	395384	40.0000	
* 6	Perylene-d12	264	15.419	15.419	(1.000)	364813	40.0000	
$ 7	2-Fluorophenol	112	2.268	2.268	(0.654)	196851	50.0000	48.82
$ 8	Phenol-d5	99	3.159	3.159	(0.910)	251155	50.0000	49.54
$ 9	2-Chlorophenol-d4	132	3.273	3.273	(0.943)	225229	50.0000	50.58
$ 10	1,2-Dichlorobenzene-d4	152	3.667	3.667	(1.057)	147522	50.0000	52.36
$ 11	Nitrobenzene-d5	82	4.092	4.092	(0.840)	214637	50.0000	52.25
$ 12	2-Fluorobiphenyl	172	6.185	6.185	(0.888)	425735	50.0000	50.52
$ 13	2,4,6-Tribromophenol	330	7.926	7.926	(1.138)	64261	50.0000	56.53
$ 14	Terphenyl-d14	244	11.346	11.346	(0.868)	422670	50.0000	54.27
15	N-Nitrosodimethylamine	74	1.242	1.242	(0.358)	133367	50.0000	50.61(M)
16	Pyridine	79	1.252	1.252	(0.361)	221903	50.0000	50.35(M)
23	Aniline	93	3.169	3.169	(0.913)	313100	50.0000	48.52
24	Phenol	94	3.169	3.169	(0.913)	281701	50.0000	48.35
26	Bis(2-chloroethyl)ether	93	3.242	3.242	(0.934)	204803	50.0000	50.13
27	2-Chlorophenol	128	3.283	3.283	(0.946)	218356	50.0000	48.83
28	1,3-Dichlorobenzene	146	3.428	3.428	(0.988)	240535	50.0000	49.38
29	1,4-Dichlorobenzene	146	3.480	3.480	(1.003)	254306	50.0000	49.92
30	Benzyl Alcohol	108	3.646	3.646	(1.051)	141374	50.0000	47.04
31	1,2-Dichlorobenzene	146	3.677	3.677	(1.060)	236119	50.0000	50.42
32	2-Methylphenol	108	3.802	3.802	(1.096)	192690	50.0000	47.12
33	2,2'-oxybis(1-Chloropropane)	45	3.822	3.822	(1.102)	321108	50.0000	49.38
34	4-Methylphenol	108	3.967	3.967	(1.143)	208624	50.0000	48.02
36	Hexachloroethane	117	4.009	4.009	(1.155)	90351	50.0000	52.10
37	N-Nitrosodinpropylamine	70	3.967	3.967	(1.143)	142919	50.0000	49.39
42	Nitrobenzene	77	4.112	4.112	(0.845)	203156	50.0000	50.60
44	Isophorone	82	4.372	4.372	(0.898)	397688	50.0000	51.51
45	2-Nitrophenol	139	4.475	4.475	(0.919)	123531	50.0000	51.86
46	2,4-Dimethyphenol	107	4.548	4.548	(0.934)	219828	50.0000	51.93

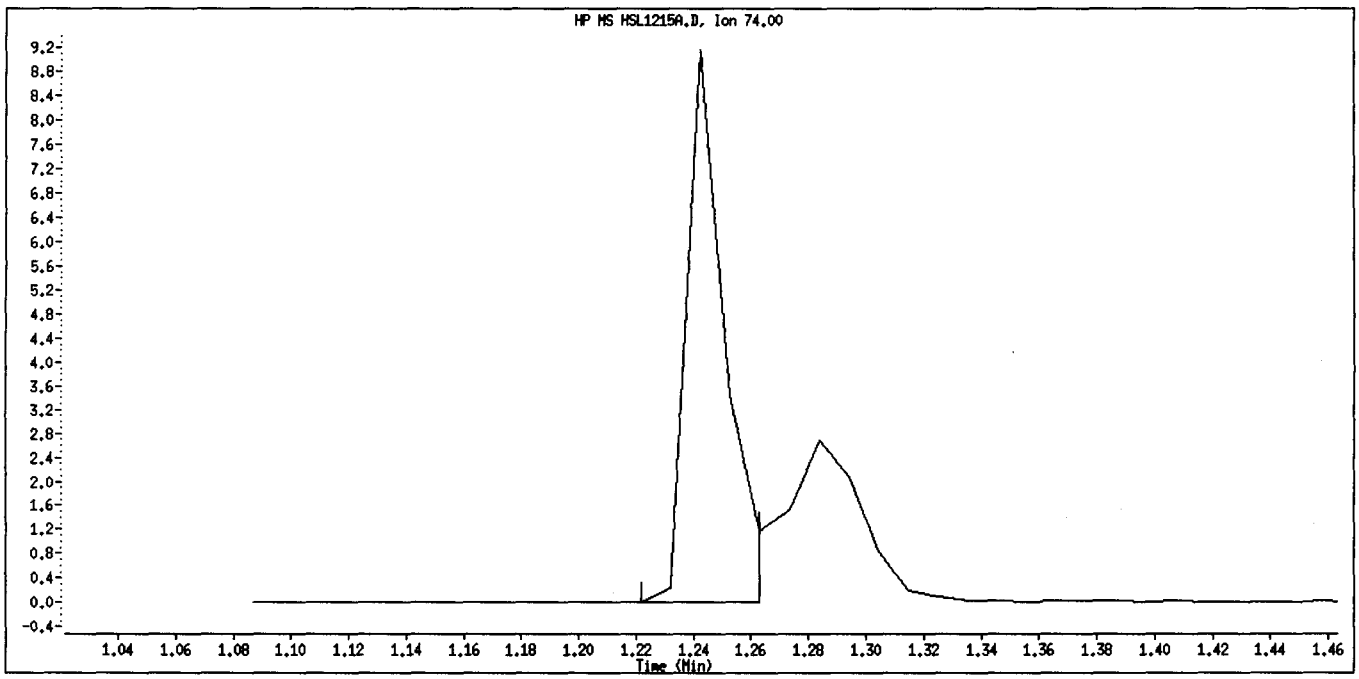
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	4.651	4.651	(0.955)	233153	50.0000	49.42
49 2,4-Dichlorophenol	162	4.745	4.745	(0.974)	171793	50.0000	52.46
50 Benzoic Acid	122	4.672	4.672	(0.960)	105163	50.0000	44.88
51 1,2,4-Trichlorobenzene	180	4.838	4.838	(0.994)	187479	50.0000	52.87
52 Naphthalene	128	4.900	4.900	(1.006)	663112	50.0000	49.52
54 4-Chloroaniline	127	5.004	5.004	(1.028)	264525	50.0000	50.40
57 Hexachlorobutadiene	225	5.128	5.128	(1.053)	98008	50.0000	56.48
60 4-Chloro-3-Methylphenol	107	5.605	5.605	(1.151)	186791	50.0000	51.08
63 2-Methylnaphthalene	142	5.708	5.708	(1.172)	433191	50.0000	51.50
66 Hexachlorocyclopentadiene	237	5.988	5.988	(0.860)	96905	50.0000	49.64
69 2,4,6-Trichlorophenol	196	6.092	6.092	(0.875)	109882	50.0000	52.65
70 2,4,5-Trichlorphenol	196	6.144	6.144	(0.882)	123721	50.0000	55.02
71 2-Chloronaphthalene	162	6.278	6.278	(0.902)	383875	50.0000	52.14
73 2-Nitroaniline	65	6.465	6.465	(0.929)	115804	50.0000	51.90
76 Dimethylphthalate	163	6.745	6.745	(0.969)	439254	50.0000	51.82
77 Acenaphthylene	152	6.776	6.776	(0.973)	651272	50.0000	50.80
79 2,6-Dinitrotoluene	165	6.807	6.807	(0.978)	104051	50.0000	52.69
80 3-Nitroaniline	138	6.962	6.962	(1.000)	124660	50.0000	50.57
81 Acenaphthene	153	6.993	6.993	(1.004)	398321	50.0000	48.81
82 2,4-Dinitrophenol	184	7.087	7.087	(1.018)	53600	50.0000	46.67
83 Dibenzofuran	168	7.190	7.190	(1.033)	540033	50.0000	49.86
84 4-Nitrophenol	109	7.211	7.211	(1.036)	57965	50.0000	56.69
86 2,4-Dinitrotoluene	165	7.273	7.273	(1.045)	138823	50.0000	53.56
91 Fluorene	166	7.605	7.605	(1.092)	460610	50.0000	51.36
92 Diethylphthalate	149	7.594	7.594	(1.091)	451850	50.0000	52.06
93 4-Chlorophenyl-phenylether	204	7.636	7.636	(1.097)	201013	50.0000	53.90
94 4-Nitroaniline	138	7.698	7.698	(1.106)	124282	50.0000	50.86
97 4,6-Dinitro-2-methylphenol	198	7.750	7.750	(0.880)	72716	50.0000	48.37
98 N-Nitrosodiphenylamine	169	7.791	7.791	(0.885)	381106	58.6000	59.31
100 Azobenzene	77	7.791	7.791	(0.885)	462633	50.0000	55.50
101 4-Bromophenyl-phenylether	248	8.237	8.237	(0.935)	107514	50.0000	51.95
108 Hexachlorobenzene	284	8.403	8.403	(0.954)	122160	50.0000	52.86
110 Pentachlorophenol	266	8.662	8.662	(0.984)	61219	50.0000	44.83
114 Phenanthrene	178	8.838	8.838	(1.004)	661922	50.0000	49.54
115 Anthracene	178	8.900	8.900	(1.011)	675260	50.0000	50.59
118 Carbazole	167	9.159	9.159	(1.040)	594225	50.0000	48.73
120 Di-n-Butylphthalate	149	9.864	9.864	(1.120)	751163	50.0000	51.20
126 Fluoranthene	202	10.631	10.631	(1.207)	601327	50.0000	50.23
127 Benzidine	184	10.921	10.921	(0.836)	403011	50.0000	50.29
128 Pyrene	202	10.973	10.973	(0.840)	670938	50.0000	54.29
134 3,3'-dimethylbenzidine	212	12.196	12.196	(0.933)	342074	50.0000	48.36
136 Butylbenzylphthalate	149	12.330	12.330	(0.944)	321769	50.0000	51.95
138 Benzo(a)Anthracene	228	13.045	13.045	(0.998)	531945	50.0000	50.51
139 Chrysene	228	13.108	13.108	(1.003)	551103	50.0000	51.15
140 3,3'-Dichlorobenzidine	252	13.108	13.108	(1.003)	201706	50.0000	50.78
141 bis(2-ethylhexyl)Phthalate	149	13.450	13.450	(1.029)	447020	50.0000	52.39
142 Di-n-octylphthalate	149	14.496	14.496	(1.109)	697415	50.0000	51.14
144 Benzo(b)fluoranthene	252	14.849	14.849	(0.963)	424346	50.0000	51.38
145 Benzo(k)fluoranthene	252	14.880	14.880	(0.965)	584216	50.0000	55.11
147 Benzo(e)pyrene	252	15.253	15.253	(0.989)	452034	50.0000	52.49
148 Benzo(a)pyrene	252	15.336	15.336	(0.995)	488634	50.0000	52.19
151 Indeno(1,2,3-cd)pyrene	276	16.932	16.932	(1.098)	406687	50.0000	53.70
152 Dibenzo(a,h)anthracene	278	16.983	16.983	(1.101)	439193	50.0000	51.92
153 Benzo(g,h,i)perylene	276	17.284	17.284	(1.121)	481988	50.0000	52.62

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				1008562	50.0000	

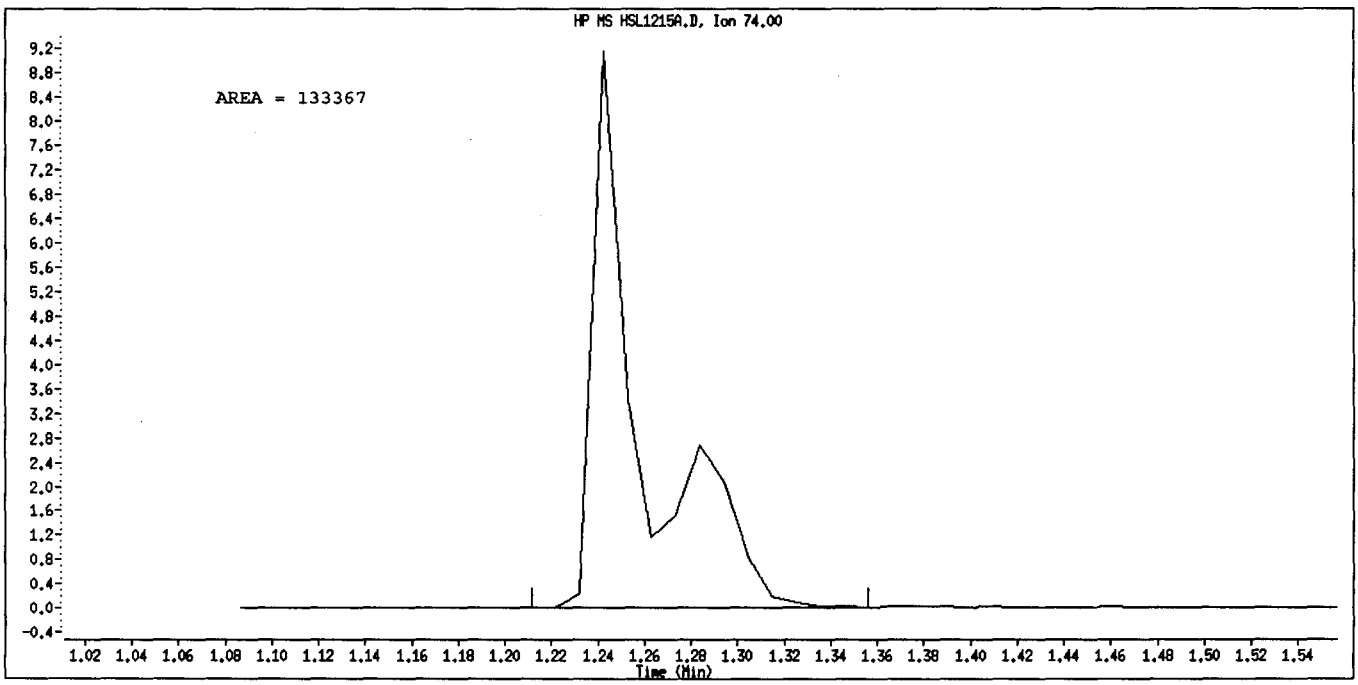
QC Flag Legend

M - Compound response manually integrated.

Data File Name: HSL1215A.D
Inj. Date and Time: 15-DEC-2010 16:26
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 12/16/2010



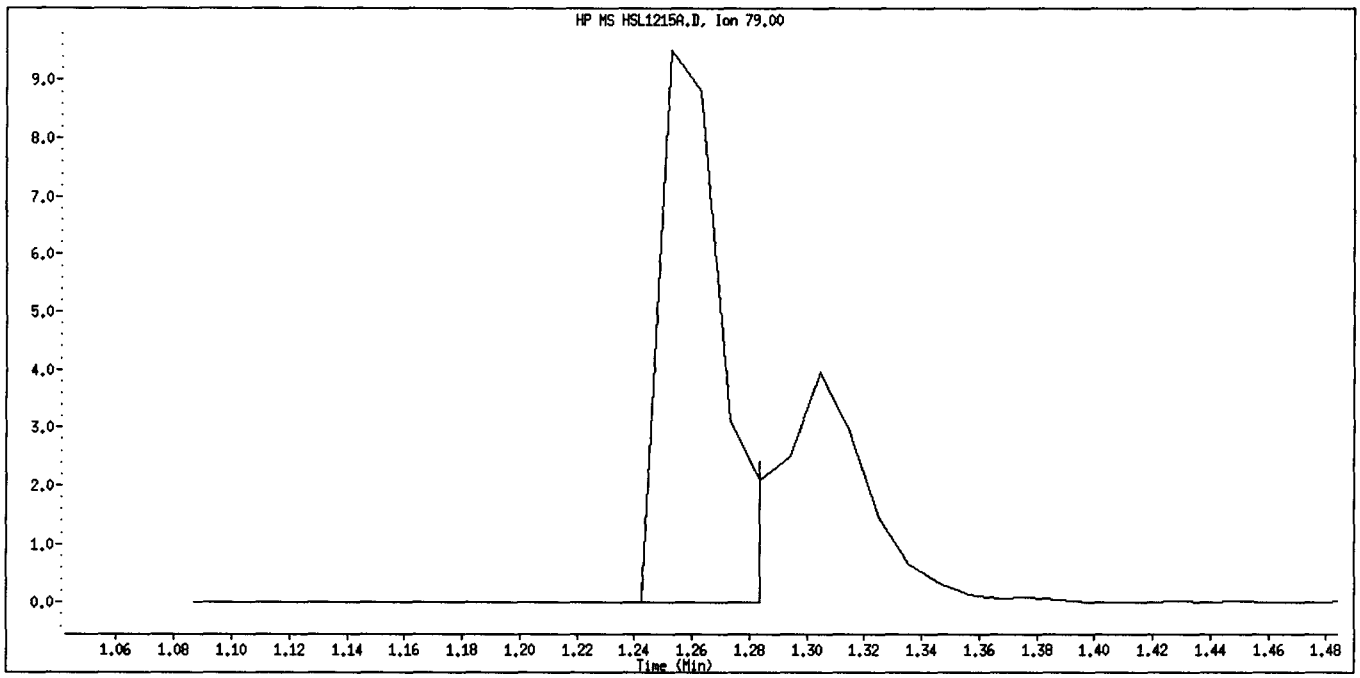
Original Integration



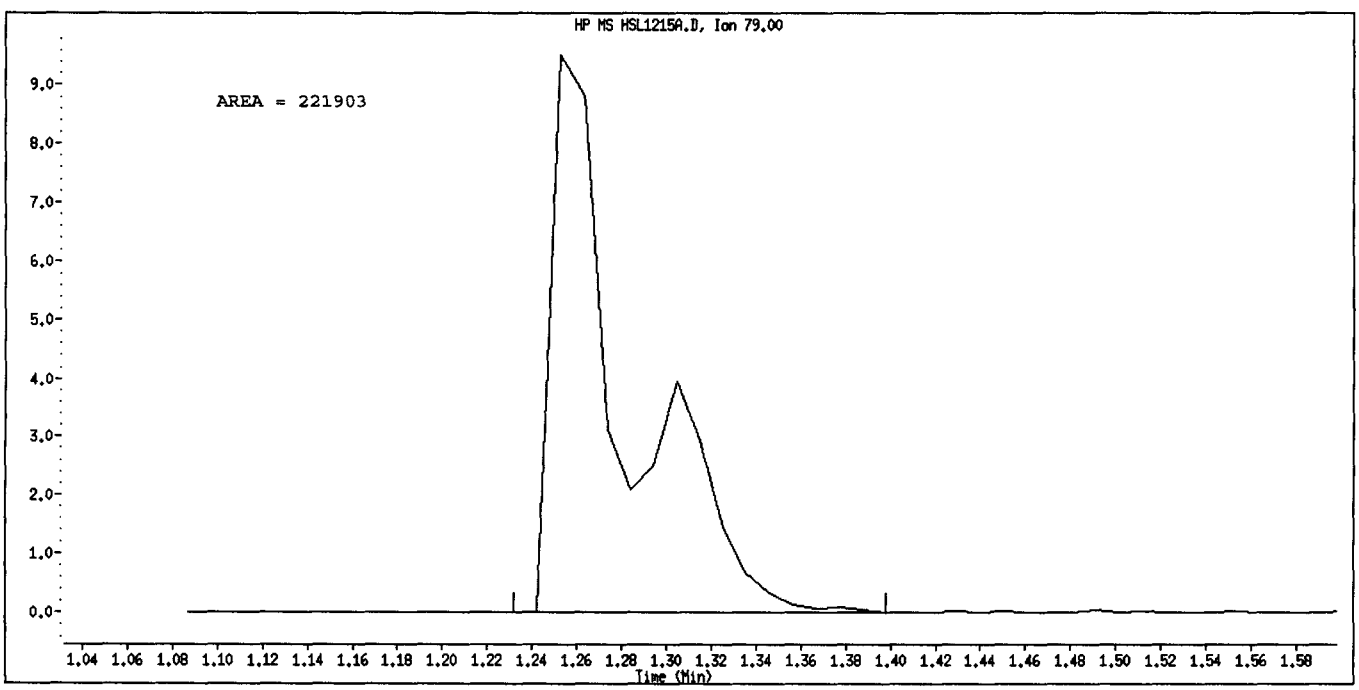
Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

Data File Name: HSL1215A.D
Inj. Date and Time: 15-DEC-2010 16:26
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Pyridine
CAS #: 110-86-1
Report Date: 12/16/2010



Original Integration



Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\121510A.B\HSL1215A.D
Lab Smp Id: HSL_050 ug/ml CS-4 Client Smp ID: 8270F.M
Inj Date : 15-DEC-2010 16:26
Operator : KT 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\121510A.B\8270f.m
Meth Date : 16-Dec-2010 11:47 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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	3.470	3.470	(1.000)	114389	40.0000	
*	2 Naphthalene-d8	136	4.869	4.869	(1.000)	484975	40.0000	
*	3 Acenaphthene-d10	164	6.962	6.962	(1.000)	261605	40.0000	
*	4 Phenanthrene-d10	188	8.807	8.807	(1.000)	423912	40.0000	
*	5 Chrysene-d12	240	13.066	13.066	(1.000)	395386	40.0000	
*	6 Perylene-d12	264	15.419	15.419	(1.000)	365108	40.0000	
$	7 2-Fluorophenol	112	2.268	2.268	(0.654)	196850	50.0000	48.82
$	8 Phenol-d5	99	3.159	3.159	(0.910)	251155	50.0000	49.54
$	9 2-Chlorophenol-d4	132	3.273	3.273	(0.943)	225229	50.0000	50.58
$	10 1,2-Dichlorobenzene-d4	152	3.667	3.667	(1.057)	147522	50.0000	52.36
$	11 Nitrobenzene-d5	82	4.092	4.092	(0.840)	214637	50.0000	52.25
$	12 2-Fluorobiphenyl	172	6.185	6.185	(0.888)	425735	50.0000	50.52
$	13 2,4,6-Tribromophenol	330	7.926	7.926	(1.138)	64261	50.0000	56.53
$	14 Terphenyl-d14	244	11.346	11.346	(0.868)	422670	50.0000	54.27
	15 N-Nitrosodimethylamine	74	1.242	1.242	(0.358)	83541	50.0000	31.70
	16 Pyridine	79	1.252	1.252	(0.361)	139709	50.0000	31.70
	23 Aniline	93	3.169	3.169	(0.913)	313100	50.0000	48.52
	24 Phenol	94	3.169	3.169	(0.913)	281701	50.0000	48.35
	26 Bis(2-chloroethyl)ether	93	3.242	3.242	(0.934)	204803	50.0000	50.13
	27 2-Chlorophenol	128	3.283	3.283	(0.946)	218359	50.0000	48.83
	28 1,3-Dichlorobenzene	146	3.428	3.428	(0.988)	240535	50.0000	49.38
	29 1,4-Dichlorobenzene	146	3.480	3.480	(1.003)	254306	50.0000	49.92
	30 Benzyl Alcohol	108	3.646	3.646	(1.051)	141374	50.0000	47.04
	31 1,2-Dichlorobenzene	146	3.677	3.677	(1.060)	236119	50.0000	50.42
	32 2-Methylphenol	108	3.802	3.802	(1.096)	192690	50.0000	47.12
	33 2,2'-oxybis(1-Chloropropane)	45	3.822	3.822	(1.102)	321108	50.0000	49.38
	34 4-Methylphenol	108	3.967	3.967	(1.143)	208624	50.0000	48.02
	36 Hexachloroethane	117	4.009	4.009	(1.155)	90351	50.0000	52.10
	37 N-Nitrosodinpropylamine	70	3.967	3.967	(1.143)	142919	50.0000	49.39
	42 Nitrobenzene	77	4.112	4.112	(0.845)	203156	50.0000	50.60
	44 Isophorone	82	4.372	4.372	(0.898)	397688	50.0000	51.51
	45 2-Nitrophenol	139	4.475	4.475	(0.919)	123531	50.0000	51.86
	46 2,4-Dimethyphenol	107	4.548	4.548	(0.934)	219828	50.0000	51.93

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47	Bis(2-chloroethoxy)methane	93	4.651	4.651	(0.955)	233149	50.0000	49.42
49	2,4-Dichlorophenol	162	4.745	4.745	(0.974)	171793	50.0000	52.46
50	Benzoic Acid	122	4.672	4.672	(0.960)	105163	50.0000	44.88
51	1,2,4-Trichlorobenzene	180	4.838	4.838	(0.994)	187479	50.0000	52.87
52	Naphthalene	128	4.900	4.900	(1.006)	663112	50.0000	49.52
54	4-Chloroaniline	127	5.004	5.004	(1.028)	264525	50.0000	50.40
57	Hexachlorobutadiene	225	5.128	5.128	(1.053)	98008	50.0000	56.48
60	4-Chloro-3-Methylphenol	107	5.605	5.605	(1.151)	186788	50.0000	51.07
63	2-Methylnaphthalene	142	5.708	5.708	(1.172)	433191	50.0000	51.50
66	Hexachlorocyclopentadiene	237	5.988	5.988	(0.860)	96905	50.0000	49.64
69	2,4,6-Trichlorophenol	196	6.092	6.092	(0.875)	109882	50.0000	52.65
70	2,4,5-Trichlorphenol	196	6.144	6.144	(0.882)	123721	50.0000	55.02
71	2-Chloronaphthalene	162	6.278	6.278	(0.902)	383875	50.0000	52.14
73	2-Nitroaniline	65	6.465	6.465	(0.929)	115804	50.0000	51.90
76	Dimethylphthalate	163	6.745	6.745	(0.969)	439254	50.0000	51.82
77	Acenaphthylene	152	6.776	6.776	(0.973)	651272	50.0000	50.80
79	2,6-Dinitrotoluene	165	6.807	6.807	(0.978)	104051	50.0000	52.69
80	3-Nitroaniline	138	6.962	6.962	(1.000)	124660	50.0000	50.57
81	Acenaphthene	153	6.993	6.993	(1.004)	398327	50.0000	48.81
82	2,4-Dinitrophenol	184	7.087	7.087	(1.018)	53600	50.0000	46.67
83	Dibenzofuran	168	7.190	7.190	(1.033)	540033	50.0000	49.86
84	4-Nitrophenol	109	7.211	7.211	(1.036)	57965	50.0000	56.69
86	2,4-Dinitrotoluene	165	7.273	7.273	(1.045)	138823	50.0000	53.56
91	Fluorene	166	7.605	7.605	(1.092)	460610	50.0000	51.36
92	Diethylphthalate	149	7.594	7.594	(1.091)	451850	50.0000	52.06
93	4-Chlorophenyl-phenylether	204	7.636	7.636	(1.097)	201013	50.0000	53.90
94	4-Nitroaniline	138	7.698	7.698	(1.106)	124282	50.0000	50.86
97	4,6-Dinitro-2-methylphenol	198	7.750	7.750	(0.880)	72716	50.0000	48.37
98	N-Nitrosodiphenylamine	169	7.791	7.791	(0.885)	381106	58.6000	59.31
100	Azobenzene	77	7.791	7.791	(0.885)	462633	50.0000	55.50
101	4-Bromophenyl-phenylether	248	8.237	8.237	(0.935)	107514	50.0000	51.95
108	Hexachlorobenzene	284	8.403	8.403	(0.954)	122160	50.0000	52.86
110	Pentachlorophenol	266	8.662	8.662	(0.984)	61219	50.0000	44.83
114	Phenanthrene	178	8.838	8.838	(1.004)	661922	50.0000	49.54
115	Anthracene	178	8.900	8.900	(1.011)	675260	50.0000	50.59
118	Carbazole	167	9.159	9.159	(1.040)	594225	50.0000	48.73
120	Di-n-Butylphthalate	149	9.864	9.864	(1.120)	751163	50.0000	51.20
126	Fluoranthene	202	10.631	10.631	(1.207)	601327	50.0000	50.23
127	Benzidine	184	10.921	10.921	(0.836)	403011	50.0000	50.29
128	Pyrene	202	10.973	10.973	(0.840)	670938	50.0000	54.29
134	3,3'-dimethylbenzidine	212	12.196	12.196	(0.933)	342074	50.0000	48.36
136	Butylbenzylphthalate	149	12.330	12.330	(0.944)	321769	50.0000	51.95
138	Benzo(a)Anthracene	228	13.045	13.045	(0.998)	531945	50.0000	50.51
139	Chrysene	228	13.108	13.108	(1.003)	551103	50.0000	51.15
140	3,3'-Dichlorobenzidine	252	13.108	13.108	(1.003)	201706	50.0000	50.77
141	bis(2-ethylhexyl)Phthalate	149	13.450	13.450	(1.029)	447020	50.0000	52.39
142	Di-n-octylphthalate	149	14.496	14.496	(1.109)	697415	50.0000	51.14
144	Benzo(b)fluoranthene	252	14.849	14.849	(0.963)	424346	50.0000	51.34
145	Benzo(k)fluoranthene	252	14.880	14.880	(0.965)	584216	50.0000	55.06
147	Benzo(e)pyrene	252	15.253	15.253	(0.989)	452034	50.0000	52.45
148	Benzo(a)pyrene	252	15.336	15.336	(0.995)	488634	50.0000	52.15
151	Indeno(1,2,3-cd)pyrene	276	16.932	16.932	(1.098)	406687	50.0000	53.66
152	Dibenzo(a,h)anthracene	278	16.983	16.983	(1.101)	439193	50.0000	51.87
153	Benzo(g,h,i)perylene	276	17.284	17.284	(1.121)	481988	50.0000	52.58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				1008562	50.0000	53.43(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: HSL1215A.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\121510A.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M

Calibration Date: 15-DEC-2010
Calibration Time: 14:04
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	114389	-6.72
2 Naphthalene-d8	530514	265257	1061028	484975	-8.58
3 Acenaphthene-d10	282538	141269	565076	261605	-7.41
4 Phenanthrene-d10	462722	231361	925444	423912	-8.39
5 Chrysene-d12	435850	217925	871700	395386	-9.28
6 Perylene-d12	422284	211142	844568	365108	-13.54

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.47	2.97	3.97	3.47	0.00
2 Naphthalene-d8	4.87	4.37	5.37	4.87	0.00
3 Acenaphthene-d10	6.96	6.46	7.46	6.96	0.00
4 Phenanthrene-d10	8.81	8.31	9.31	8.81	0.00
5 Chrysene-d12	13.07	12.57	13.57	13.07	0.00
6 Perylene-d12	15.42	14.92	15.92	15.42	0.00

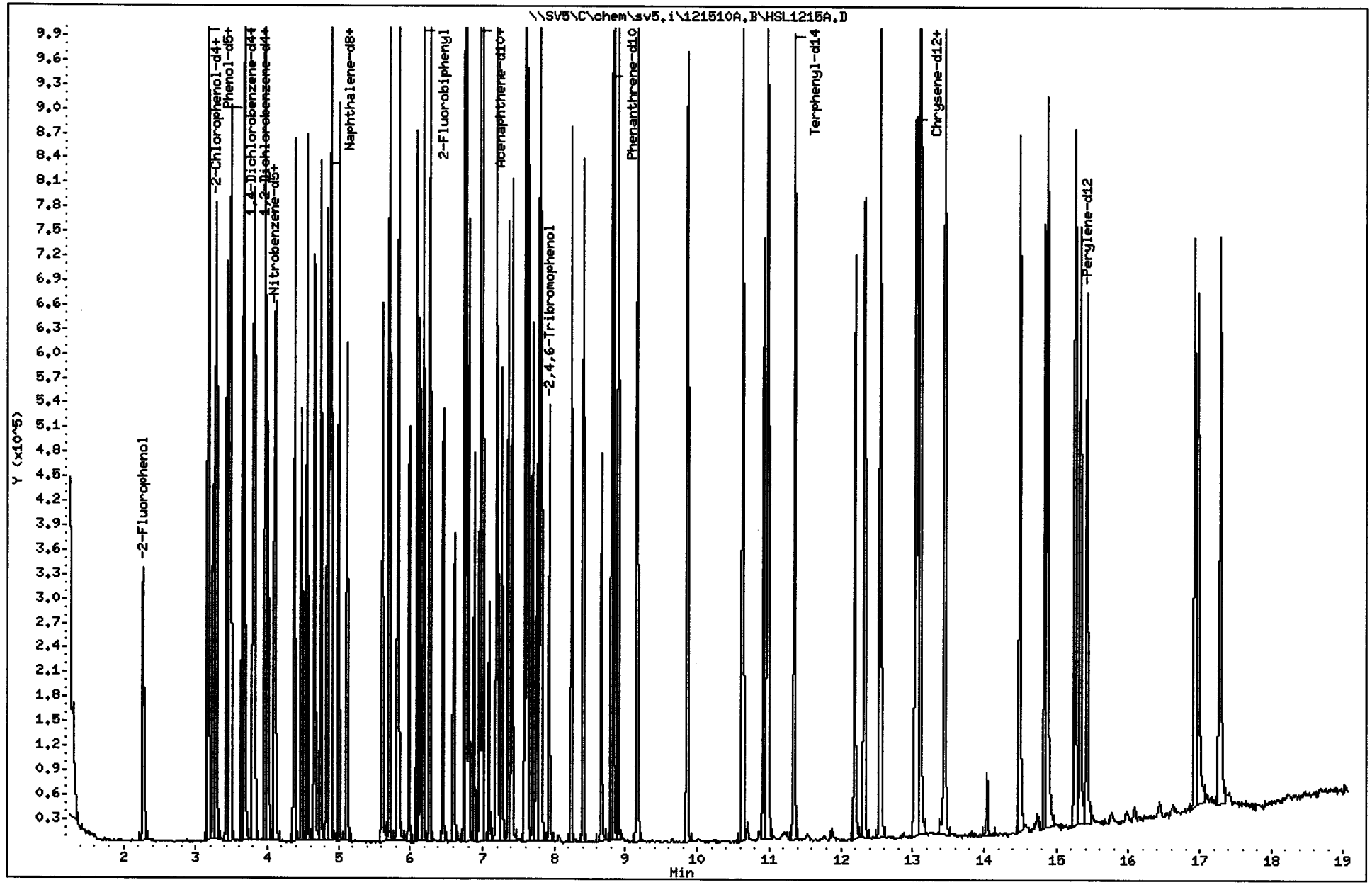
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV5\C\chem\sv5.i\121510A.B\HSL1215A.D
Date : 15-DEC-2010 16:26
Client ID: 8270F.M
Sample Info: HSL_050 ug/ml CS-4;2;;4;;;;4

Column phase:

Instrument: sv5.i

Operator: KT
Column diameter: 2.00



TAILING FACTOR/DEGRADATION SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.5367652	5.000	PASS
Benzidine	0.4440681	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	325415	8.7	20.5	PASS

Sample //SV5/C/chem/sv5.i/121510A.B/DFT1215A.D/DFT1215A.D

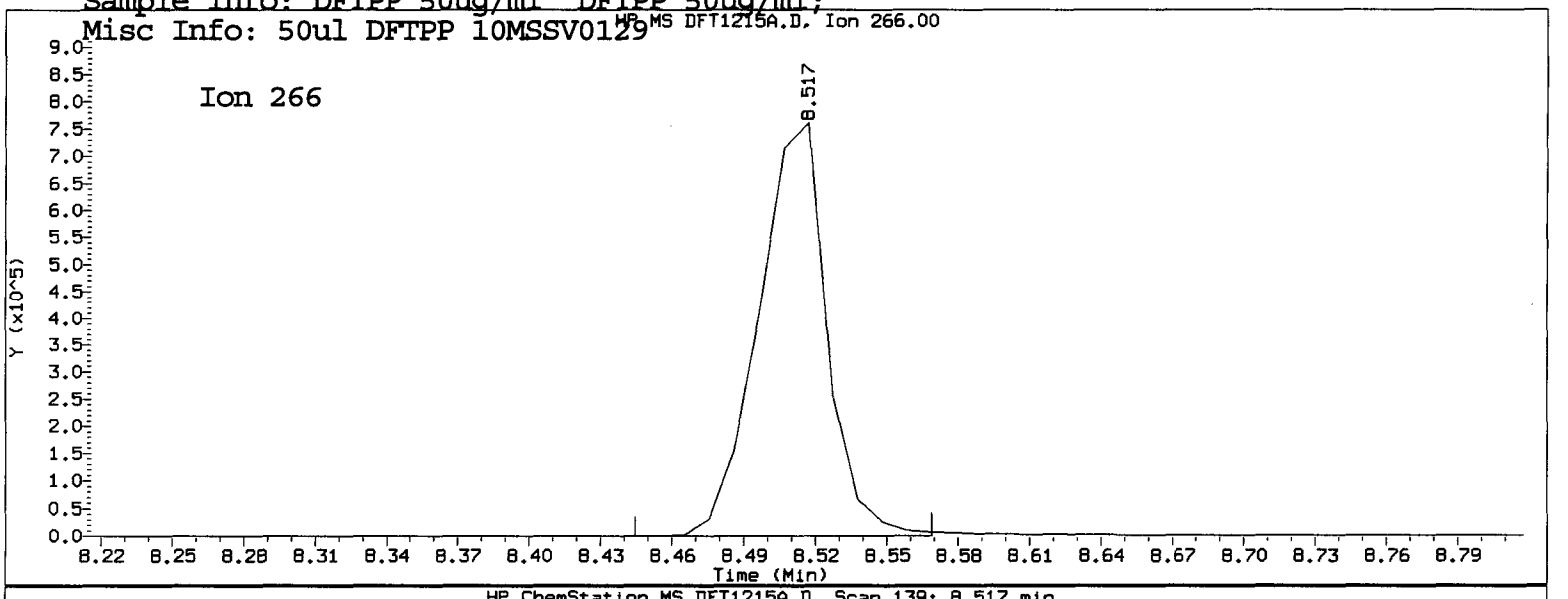
****
*** PASSED ***
****

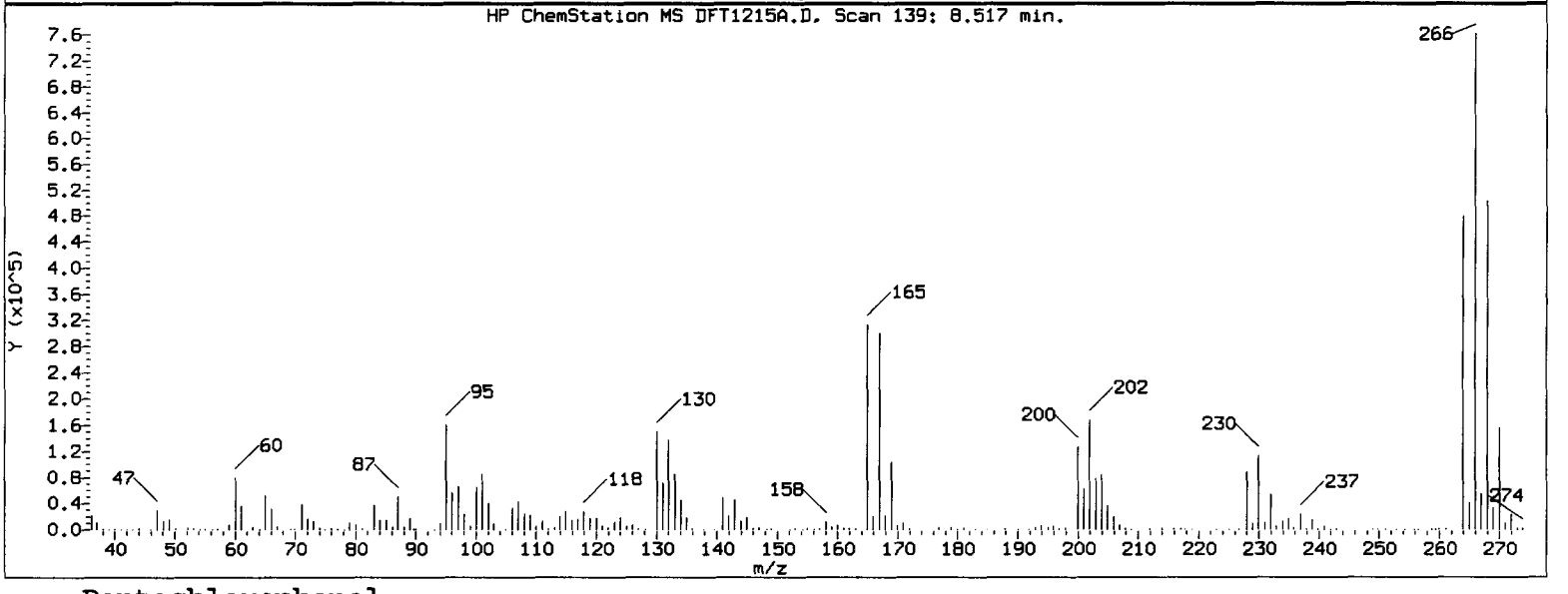
12/16/10

TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 12/16/2010 11:22

Datafile Analyzed: //SV5/C/chem/sv5.i/121510A.B/DFT1215A.D/DFT1215A.D
Method Used: \\SV5\C\chem\sv5.i\121510A.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 15-DEC-2010 16:05 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129





Pentachlorophenol
==========
Exp. RT = 8.631
Found RT = 8.517

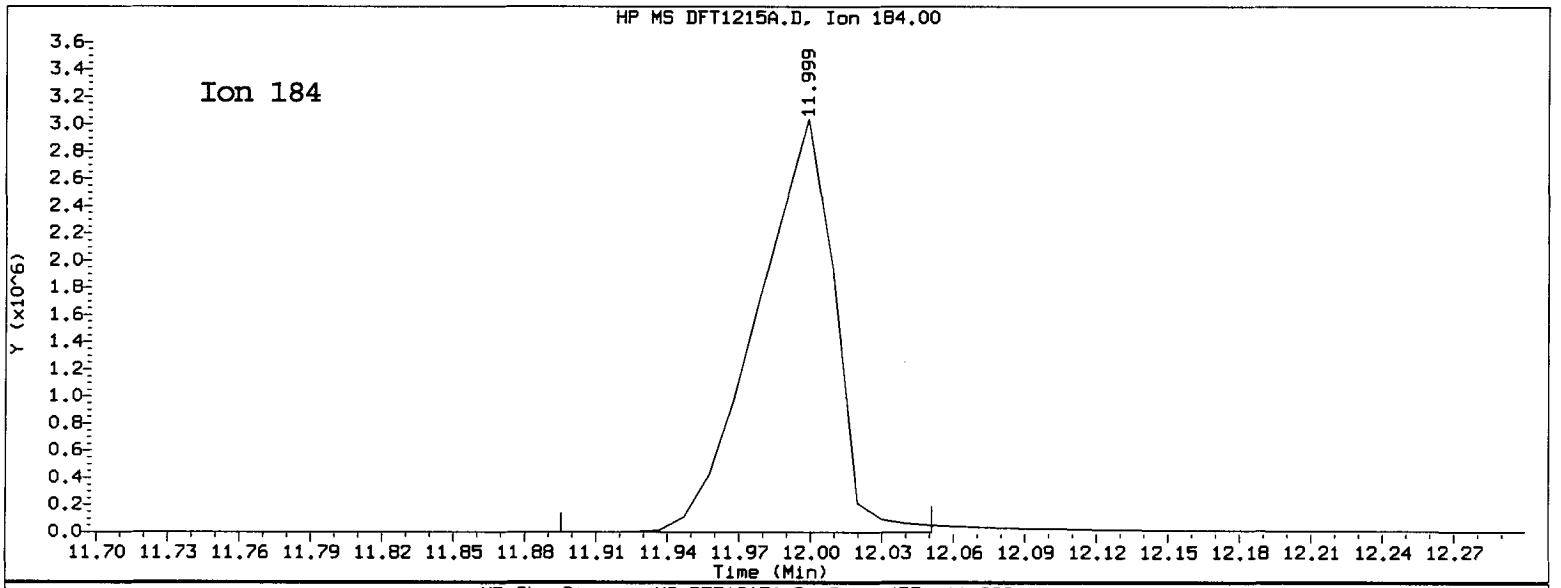
Time1 = 8.479395 Time2 = 8.517033 Time3 = 8.537236
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

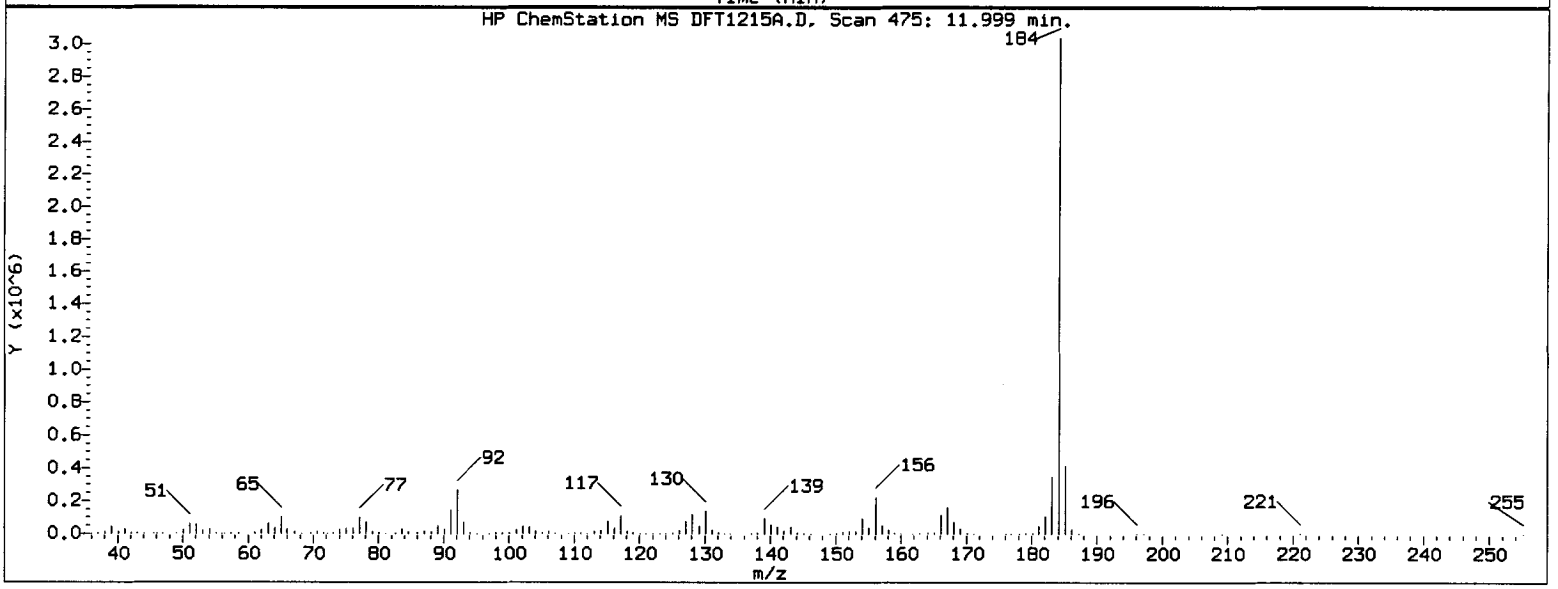
Tailing factor for Pentachlorophenol OK

Tail Factor = 0.537 Maximum Allowed = 5.0

Report Date: 12/16/2010 11:22

Datafile Analyzed: //SV5/C/chem/sv5.i/121510A.B/DFT1215A.D/DFT1215A.D
Method Used: \\SV5\C\chem\sv5.i\121510A.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 15-DEC-2010 16:05 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129





Benzidine
=========
 Exp. RT = 12.113
Found RT = 11.999

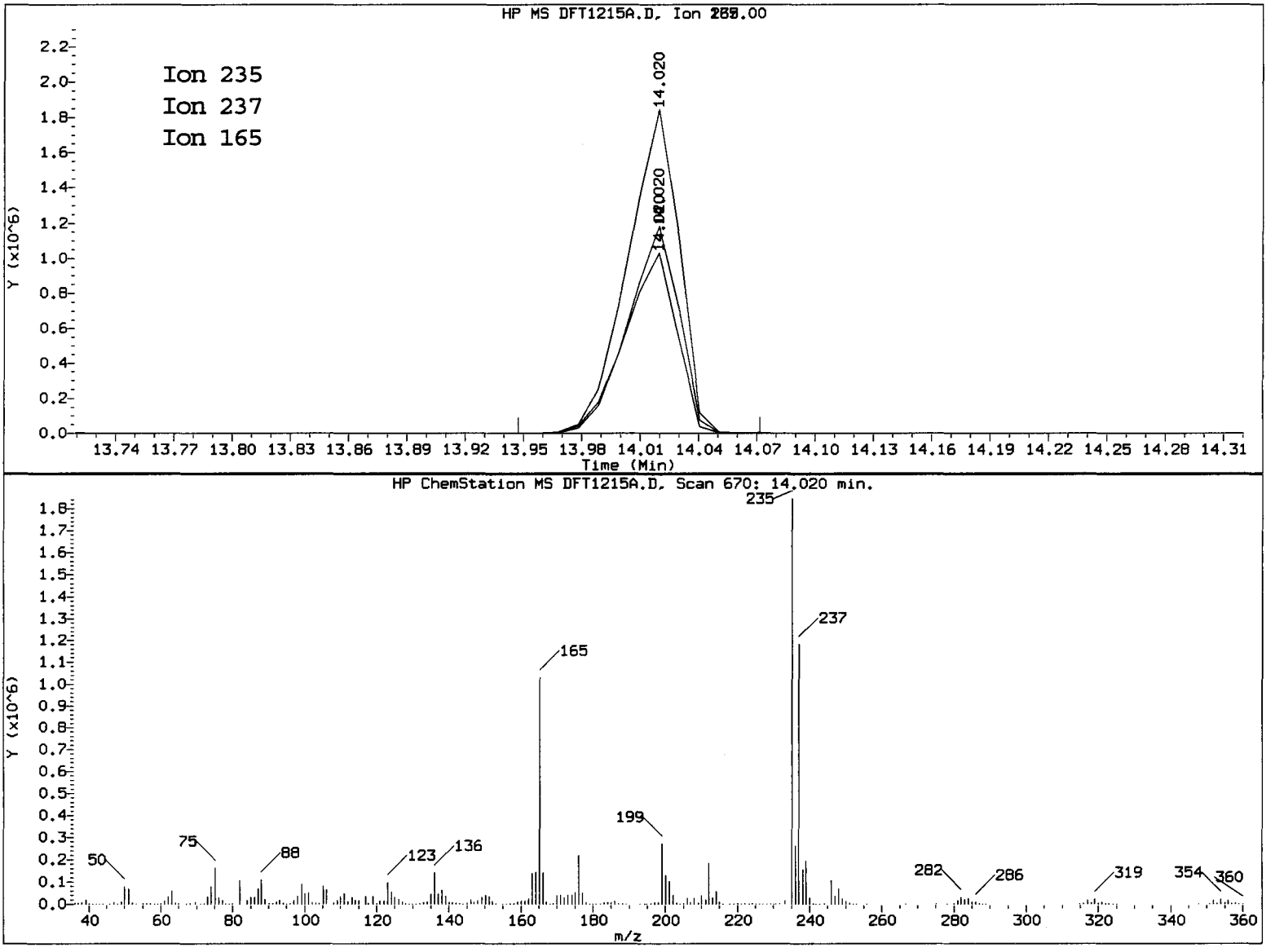
Time1 = 11.95359 Time2 = 11.999 Time3 = 12.01917
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Benzidine OK

Tail Factor = 0.444 Maximum Allowed = 3.0

Report Date: 12/16/2010 11:22

Datafile Analyzed: //SV5/C/chem/sv5.i/121510A.B/DFT1215A.D/DFT1215A.D
Method Used: \\SV5\C\chem\sv5.i\121510A.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 15-DEC-2010 16:05 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129

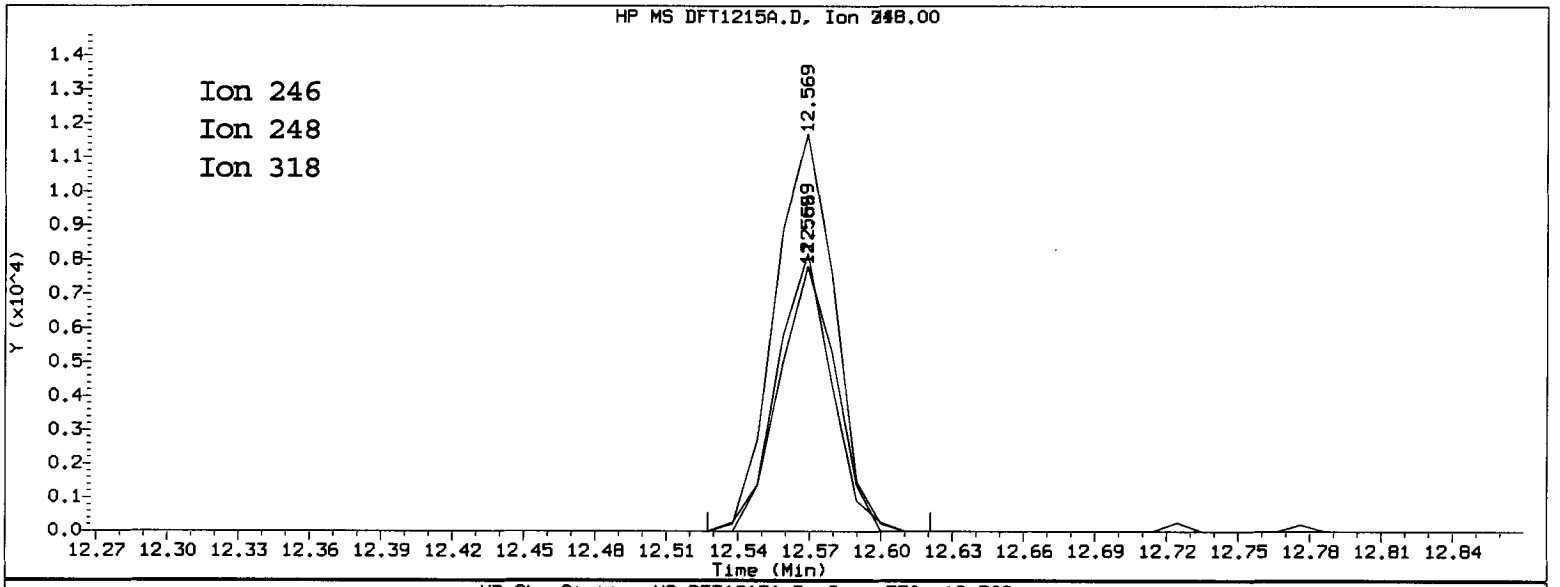


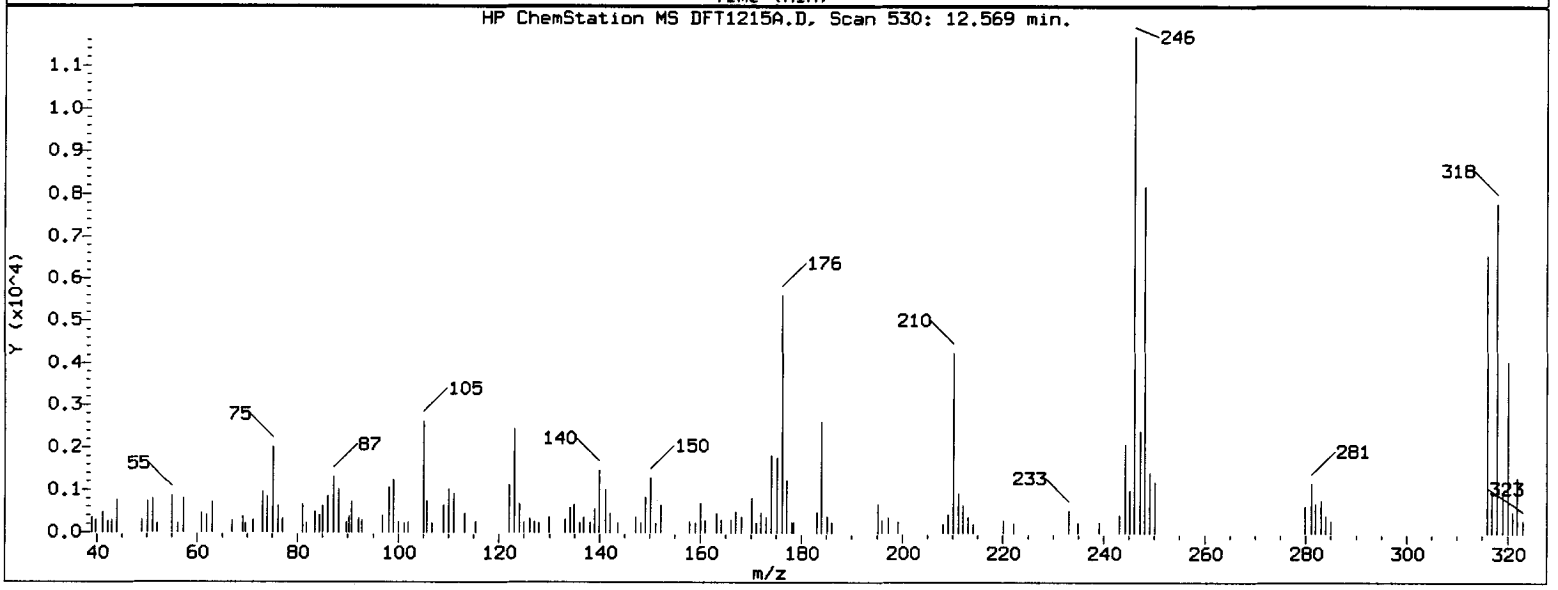
4,4'-DDT
========
Exp. RT = 14.134
Found RT = 14.020

Mass	Area	Ratio
235	3399722	100.00
237	2167836	63.77
165	1920271	56.48

Report Date: 12/16/2010 11:22

Datafile Analyzed: //SV5/C/chem/sv5.i/121510A.B/DFT1215A.D/DFT1215A.D
Method Used: \\SV5\C\chem\sv5.i\121510A.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 15-DEC-2010 16:05 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



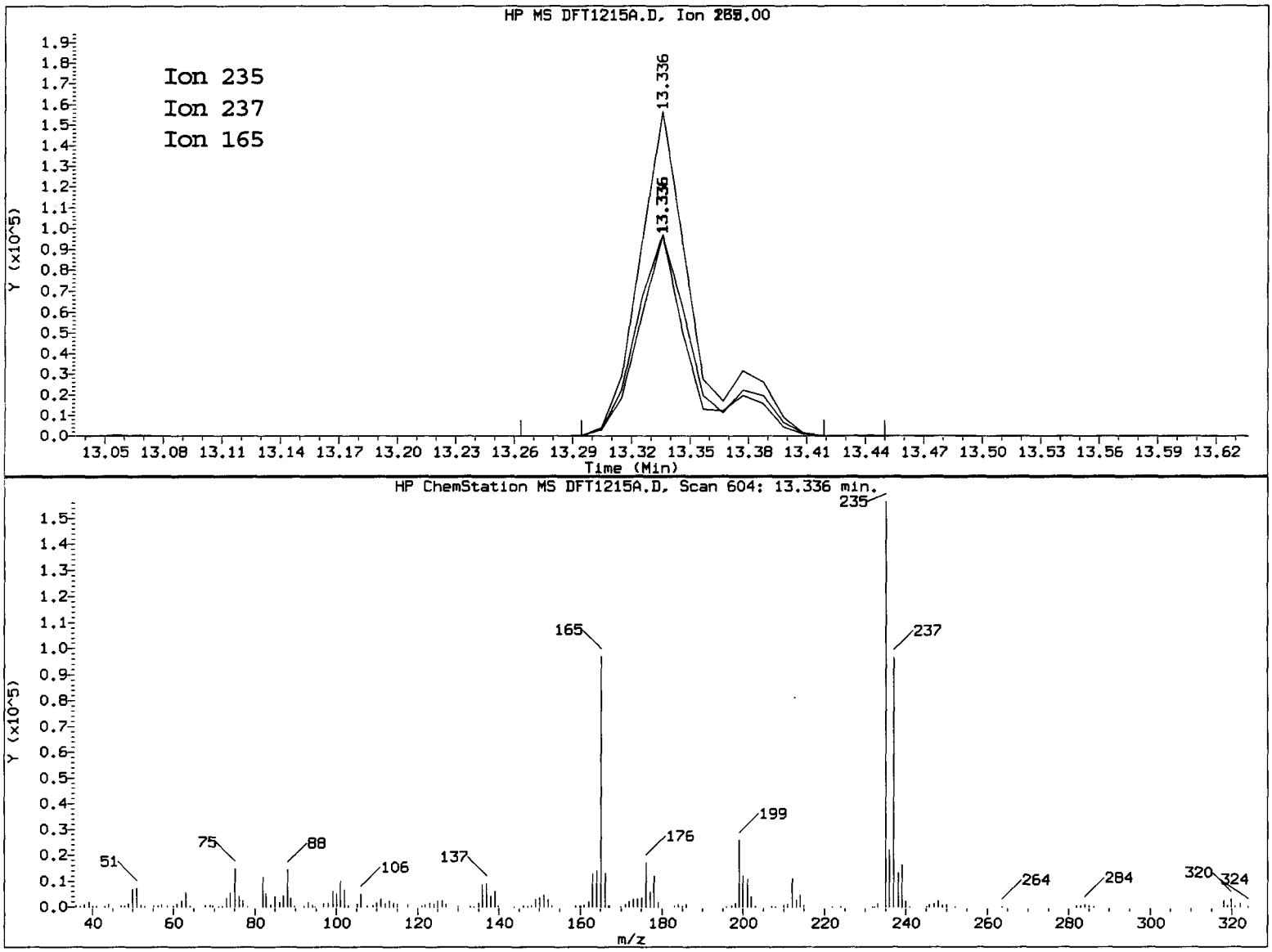


4,4'-DDE
========
Exp. RT = 12.683
Found RT = 12.569

Mass	Area	Ratio
246	20399	100.00
248	13160	64.51
318	12940	63.44

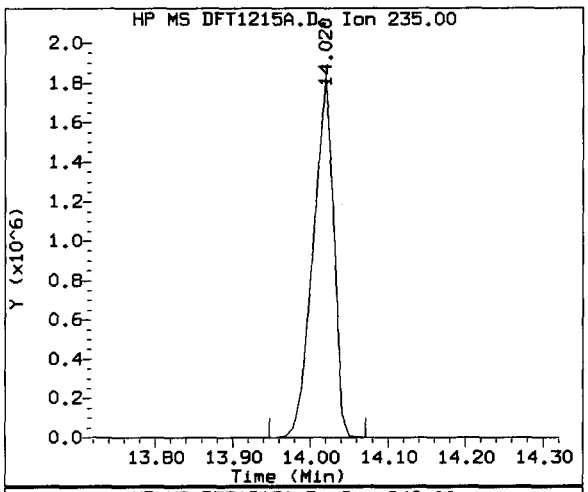
Report Date: 12/16/2010 11:22

Datafile Analyzed: //SV5/C/chem/sv5.i/121510A.B/DFT1215A.D/DFT1215A.D
Method Used: \\SV5\C\chem\sv5.i\121510A.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 15-DEC-2010 16:05 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129

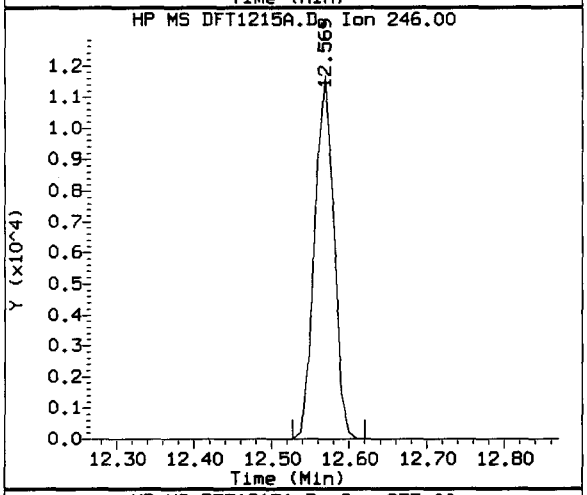


4,4'-DDD
========
Exp. RT = 13.450
Found RT = 13.336

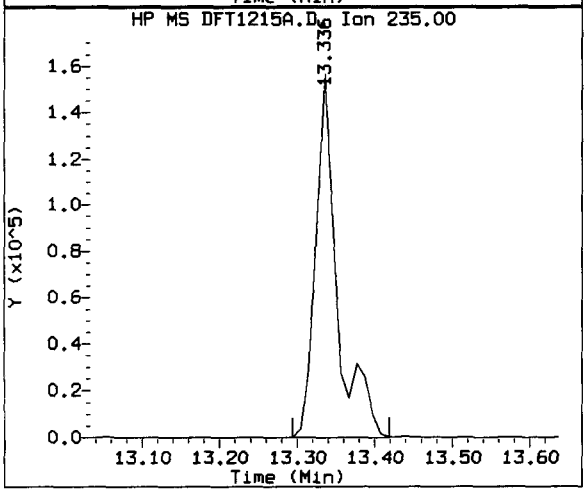
Mass	Area	Ratio
235	305016	100.00
237	199797	65.50
165	191254	62.70



Compound: 4,4'-DDT
Quant Mass: 235
RT: 14.020
Area: 3399722



Compound: 4,4'-DDE
Quant Mass: 246
RT: 12.569
Area: 20399



Compound: 4,4'-DDD
Quant Mass: 235
RT: 13.336
Area: 305016

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	325415	8.7	20.5	PASS

TestAmerica West Sacramento

Data file : \\SV5\C\chem\sv5.i\121510A.B\DFT1215A.D
Lab Smp Id: DFTPP 50ug/ml
Inj Date : 15-DEC-2010 16:05
Operator : KT Inst ID: sv5.i
Smp Info : DFTPP 50ug/ml;
Misc Info : 50ul DFTPP 10MSSV0129
Comment :
Method : \\SV5\C\chem\sv5.i\121510A.B\DFTPP.m
Meth Date : 08-Dec-2010 09:15 onishim 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

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
9.988	10.092	(0.000)	198	974272			0.00- 100.00	99.44
9.988	10.092	(0.000)	51	430784			30.00- 60.00	44.22
9.988	10.092	(0.000)	68	7148			0.00- 2.00	1.77
9.988	10.092	(0.000)	69	402880			0.00- 0.00	41.35
9.988	10.092	(0.000)	70	1657			0.00- 2.00	0.41
9.988	10.092	(0.000)	127	541952			40.00- 60.00	55.63
9.988	10.092	(0.000)	197	0	0.0	0.0	0.00- 1.00	0.00
9.988	10.092	(0.000)	199	63592			5.00- 9.00	6.53
9.988	10.092	(0.000)	275	222720			10.00- 30.00	22.86
9.988	10.092	(0.000)	365	29472			1.00- 0.00	3.03
9.988	10.092	(0.000)	441	139712			0.01- 99.99	73.73
9.988	10.092	(0.000)	442	979776			40.00- 0.00	100.56
9.988	10.092	(0.000)	443	189504			17.00- 23.00	19.34

Data File: \\SV5\C\chem\sv5.i\121510A.B\DFT1215A.D

Date : 15-DEC-2010 16:05

Client ID:

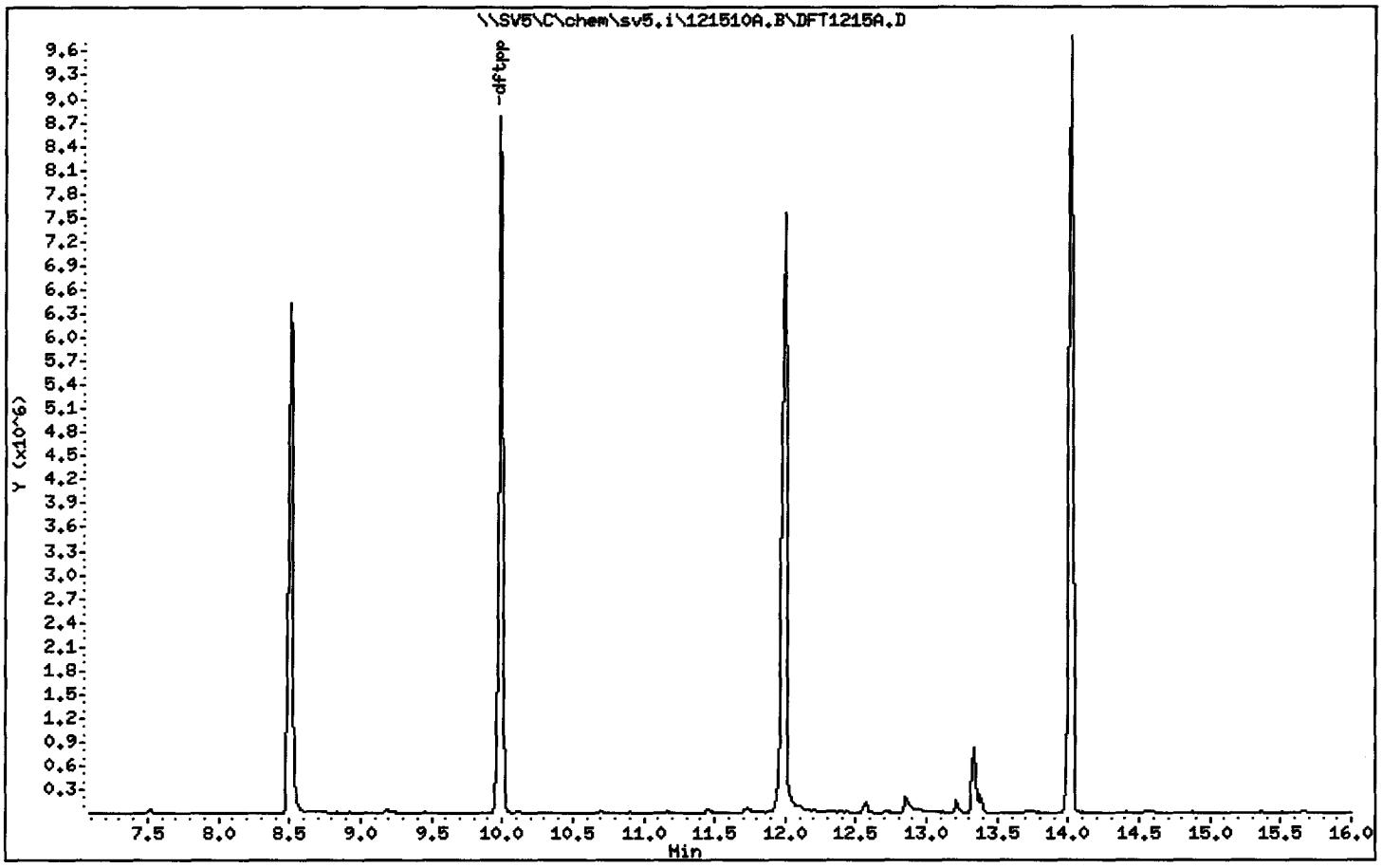
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00



Data File: \\SV5\C\chem\sv5.i\121510A.B\DFT1215A.D

Date : 15-DEC-2010 16:05

Client ID:

Instrument: sv5.i

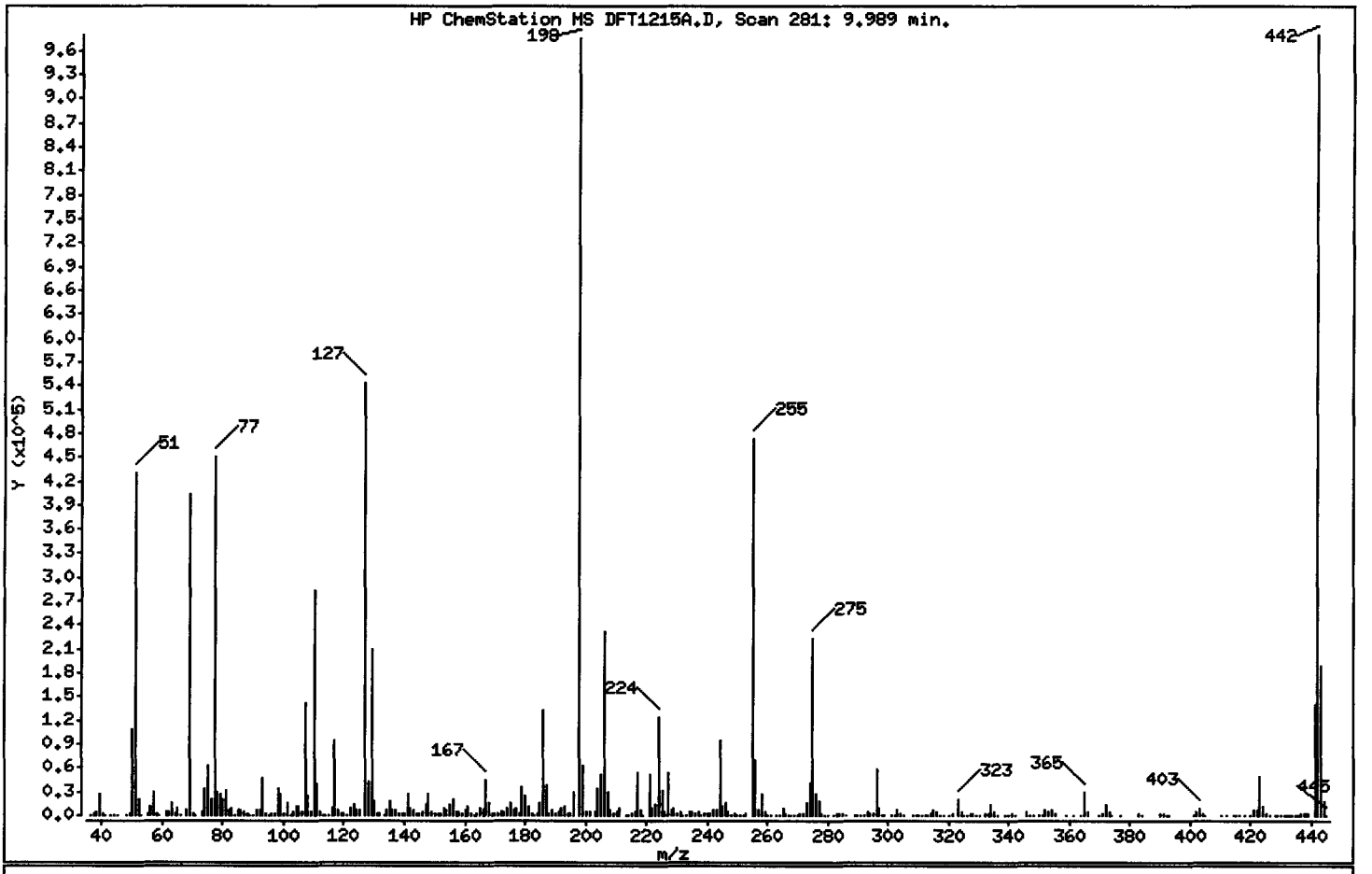
Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	44.22
68	Less than 2.00% of mass 69	0.73 (1.77)
69	Mass 69 relative abundance	41.35
70	Less than 2.00% of mass 69	0.17 (0.41)
127	40.00 - 60.00% of mass 198	55.63
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.53
275	10.00 - 30.00% of mass 198	22.86
365	Greater than 1.00% of mass 198	3.03
441	Present, but less than mass 443	14.34
442	Greater than 40.00% of mass 198	100.56
443	17.00 - 23.00% of mass 442	19.45 (19.34)

Date : 15-DEC-2010 16:05

Client ID: Instrument: sv5.i

Sample Info: DFTPP 50ug/ml:

Operator: KT

Column phase: Column diameter: 2.00

Data File: DFT1215A.D
Spectrum: HP ChemStation MS DFT1215A.D, Scan 281: 9.989 min.
Location of Maximum: 442.00
Number of points: 348

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	322	131.90	1899	224.10	123608	320.20	325
37.10	2131	133.20	883	225.10	30624	321.10	1705
38.00	4196	134.10	5674	226.10	3503	323.10	21056
39.10	28064	135.00	17312	227.00	53768	324.10	4084
40.10	1609	136.00	6723	228.00	7506	325.10	294
41.10	1067	137.10	7211	229.10	10016	326.00	499
43.00	281	138.00	1770	230.00	2114	327.10	2771
43.90	791	139.10	1436	231.10	3411	328.00	2117
45.00	816	140.10	2595	232.00	723	329.00	350
48.00	360	141.00	26264	233.00	1074	330.10	219
49.20	2772	142.00	7939	234.00	4020	332.00	1826
50.10	106992	143.00	5959	235.00	3829	333.10	1997
51.10	430784	143.90	1638	236.00	2444	334.00	13671
52.10	20952	145.00	1790	237.10	4209	335.00	3444
53.10	1042	146.00	5387	238.10	626	336.00	697
55.00	2050	147.10	12865	239.10	1912	338.90	541
56.00	11970	148.00	26456	240.00	1247	339.90	571
57.00	30392	149.00	5288	241.00	2290	341.10	2527
58.00	1347	150.00	1860	242.10	6755	342.10	772
59.00	313	151.20	2649	243.10	6293	346.00	4380
61.00	4932	152.00	1584	244.10	94168	347.00	887
62.10	5176	153.00	8355	245.10	11554	347.90	258
63.00	15000	154.00	6000	246.00	16349	350.00	384
64.00	1810	155.00	12588	247.00	4014	350.90	662
65.10	8457	156.00	20848	248.10	496	352.00	6819
66.10	406	157.10	4965	249.00	3096	353.10	4937
68.10	7148	158.00	3772	250.00	915	354.00	6563
69.00	402880	159.10	3120	251.20	687	355.10	1330
70.10	1657	160.00	7308	251.90	715	359.10	1012
71.00	421	161.00	11321	253.00	2981	361.20	208
73.00	3431	162.00	3073	255.00	473728	363.60	728
74.00	34208	163.00	1065	256.00	70704	365.00	29472
75.00	62320	164.00	1381	257.00	6080	366.00	4248
76.00	19496	165.00	8435	258.00	27272	369.80	1077
77.10	451072	166.10	7299	259.00	4496	371.00	2148

Date : 15-DEC-2010 16:05

Client ID: Instrument: sv5.i

Sample Info: DFTPP 50ug/ml:

Operator: KT

Column phase: Column diameter: 2.00

Data File: DFT1215A.D
Spectrum: HP ChemStation MS DFT1215A.D, Scan 281: 9.989 min.
Location of Maximum: 442.00
Number of points: 348

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.10	29864	167.00	46152	260.10	647	372.10	13237
79.00	26576	168.00	15711	260.90	1101	373.00	3674
80.00	19936	169.10	2783	263.10	489	374.00	629
81.00	30976	170.10	1196	263.80	1060	376.90	285
82.00	7232	170.90	1830	265.00	10087	383.00	3216
83.00	8286	172.00	4465	265.90	1664	384.00	1048
83.90	779	173.00	4392	267.10	292	390.00	2110
85.00	6531	174.00	9968	267.90	404	391.00	1501
86.00	7828	175.00	16880	268.90	412	392.10	1005
87.00	4363	176.10	7236	269.90	506	393.10	363
88.00	1677	177.00	9862	270.20	551	401.10	586
88.80	529	178.00	2689	270.90	1163	402.00	4864
90.10	220	179.00	36328	272.10	1800	403.00	9179
91.00	7161	180.00	23856	273.00	16816	404.00	2896
92.00	6834	181.10	10202	274.00	41008	405.00	464
93.00	46688	182.10	2305	275.00	222720	410.10	253
94.00	3096	183.00	850	276.10	27336	412.10	207
95.10	1125	184.00	2878	277.00	18968	414.10	246
96.10	2364	185.00	16632	278.00	2367	415.10	608
97.10	1265	186.10	132544	279.00	835	416.30	228
98.00	34336	187.10	37904	280.00	254	418.20	492
99.00	27976	188.00	3088	281.70	384	419.80	250
100.10	2699	189.00	7516	283.00	1526	421.00	6819
101.00	16162	190.00	1986	284.00	1503	422.00	6433
102.20	1021	191.00	3517	285.00	2751	423.00	50616
103.00	5494	192.00	9971	286.00	393	424.00	11232
104.00	10491	193.10	11224	289.00	831	424.90	1127
105.00	11891	194.10	2526	290.00	775	426.20	204
106.10	3704	195.10	1482	290.80	421	428.00	506
107.00	142784	196.10	29184	292.00	1120	428.70	502
108.00	23664	198.00	974272	293.00	5287	429.70	510
109.10	4990	199.00	63592	294.10	1418	430.10	463
110.00	283584	200.10	5142	294.90	1300	430.80	253
111.00	39992	201.50	4431	296.00	58328	431.80	709
112.00	4458	203.00	5131	297.00	8449	432.00	702

Date : 15-DEC-2010 16:05

Client ID: Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase: Column diameter: 2.00

Data File: DFT1215A.D
Spectrum: HP ChemStation MS DFT1215A.D, Scan 281: 9.989 min.
Location of Maximum: 442.00
Number of points: 348

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	1119	204.00	32800	297.90	583	432.60	691
114.00	501	205.10	52808	298.90	224	433.40	410
114.90	740	206.10	230912	301.00	450	434.50	820
116.10	8357	207.10	29424	302.00	875	435.00	889
117.00	94320	208.00	7588	303.00	7848	435.90	1012
118.00	7095	209.00	2536	304.10	1640	436.70	1244
119.00	1337	210.10	3947	305.00	434	437.60	1170
120.00	2064	211.10	8661	308.00	859	438.20	1347
121.00	597	213.10	559	309.10	716	439.10	1824
122.00	8846	214.00	271	310.10	1025	441.00	139712
123.00	13002	215.00	1983	311.00	201	442.00	979776
124.00	7727	216.10	4934	312.20	229	443.00	189504
125.00	7112	217.00	54576	313.00	554	444.00	18040
127.00	541952	218.00	6865	314.00	2370	445.00	946
128.00	41728	218.90	848	315.00	6905		
129.00	210496	221.00	52720	316.10	4239		
130.00	17768	221.70	9966	317.10	838		
131.10	3129	223.00	13666	318.10	442		

TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\121510A.B\S121513.D
Lab Smp Id: MA9001AA G0L130000- Client Smp ID: 0347431
Inj Date : 15-DEC-2010 21:44
Operator : KT Inst ID: sv5.i
Smp Info : MA9001AA G0L130000-431B;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M
Comment : SOP SAC-MS-0005
Method : \\sv5\c\chem\sv5.i\121510A.B\8270f.m
Meth Date : 16-Dec-2010 11:40 sv5.i Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SACP307UM

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.470	3.470	(1.000)	114558	40.0000	(q)
* 2 Naphthalene-d8	136	4.869	4.869	(1.000)	488298	40.0000	
* 3 Acenaphthene-d10	164	6.962	6.962	(1.000)	256705	40.0000	
* 4 Phenanthrene-d10	188	8.807	8.807	(1.000)	399086	40.0000	
* 5 Chrysene-d12	240	13.066	13.066	(1.000)	358741	40.0000	
* 6 Perylene-d12	264	15.418	15.419	(1.000)	337972	40.0000	
$ 7 2-Fluorophenol	112	2.268	2.268	(0.654)	288675	71.4906	71.49
$ 8 Phenol-d5	99	3.159	3.159	(0.910)	409350	80.6177	80.62
$ 10 1,2-Dichlorobenzene-d4	152	3.667	3.667	(1.057)	104219	36.9394	36.94(q)
$ 11 Nitrobenzene-d5	82	4.092	4.092	(0.840)	172026	41.5942	41.59
$ 12 2-Fluorobiphenyl	172	6.185	6.185	(0.888)	360774	43.6283	43.63
$ 13 2,4,6-Tribromophenol	330	7.926	7.926	(1.138)	89519	80.2517	80.25
$ 14 Terphenyl-d14	244	11.346	11.346	(0.868)	300369	42.5076	42.51
108 Hexachlorobenzene	284	Compound Not Detected.					

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

12/16/10

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA9001AA G0L130000- Client Smp ID: 0347431
Level: LOW Operator: KT
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\sv5\c\chem\sv5.i\121510A.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	71.49	71.49	41-105
$ 8 Phenol-d5	100.0	80.62	80.62	43-122
$ 10 1,2-Dichlorobenzen	50.00	36.94	73.88	60-120
$ 11 Nitrobenzene-d5	50.00	41.59	83.19	46-118
$ 12 2-Fluorobiphenyl	50.00	43.63	87.26	58-105
$ 13 2,4,6-Tribromophen	100.0	80.25	80.25	61-118
$ 14 Terphenyl-d14	50.00	42.51	85.02	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\121510A.B\S121513.D
Lab Smp Id: MA9001AA G0L130000- Client Smp ID: 0347431
Inj Date : 15-DEC-2010 21:44
Operator : KT Inst ID: sv5.i
Smp Info : MA9001AA G0L130000-431B;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M
Comment : SOP SAC-MS-0005
Method : \\SV5\C\chem\sv5.i\121510A.B\8270F.m
Meth Date : 15-Dec-2010 16:45 semivoa Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SV5

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 1	1,4-Dichlorobenzene-d4	152	3.470	3.470	(1.000)	114558	40.0000		(q)
* 2	Naphthalene-d8	136	4.869	4.869	(1.000)	488298	40.0000		
* 3	Acenaphthene-d10	164	6.962	6.962	(1.000)	256705	40.0000		
* 4	Phenanthrene-d10	188	8.807	8.807	(1.000)	399086	40.0000		
* 5	Chrysene-d12	240	13.066	13.066	(1.000)	358741	40.0000		
* 6	Perylene-d12	264	15.418	15.419	(1.000)	337972	40.0000		
$ 7	2-Fluorophenol	112	2.268	2.268	(0.654)	288675	71.4906	71.49	
$ 8	Phenol-d5	99	3.159	3.159	(0.910)	409350	80.6177	80.62	
$ 10	1,2-Dichlorobenzene-d4	152	3.667	3.667	(1.057)	104219	36.9394	36.94	(q)
$ 11	Nitrobenzene-d5	82	4.092	4.092	(0.840)	172026	41.5942	41.59	
$ 12	2-Fluorobiphenyl	172	6.185	6.185	(0.888)	360774	43.6283	43.63	
$ 13	2,4,6-Tribromophenol	330	7.926	7.926	(1.138)	89519	80.2517	80.25	
$ 14	Terphenyl-d14	244	11.346	11.346	(0.868)	300369	42.5076	42.51	
108	Hexachlorobenzene	284	Compound Not Detected.						

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S121513.D
Lab Smp Id: MA9001AA G0L130000-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\121510A.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M

Calibration Date: 15-DEC-2010
Calibration Time: 16:26
Client Smp ID: 0347431
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	114558	-6.58
2 Naphthalene-d8	530514	265257	1061028	488298	-7.96
3 Acenaphthene-d10	282538	141269	565076	256705	-9.14
4 Phenanthrene-d10	462722	231361	925444	399086	-13.75
5 Chrysene-d12	435850	217925	871700	358741	-17.69
6 Perylene-d12	422284	211142	844568	337972	-19.97

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.47	2.97	3.97	3.47	-0.01
2 Naphthalene-d8	4.87	4.37	5.37	4.87	-0.00
3 Acenaphthene-d10	6.96	6.46	7.46	6.96	-0.00
4 Phenanthrene-d10	8.81	8.31	9.31	8.81	-0.00
5 Chrysene-d12	13.07	12.57	13.57	13.07	-0.00
6 Perylene-d12	15.42	14.92	15.92	15.42	-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.

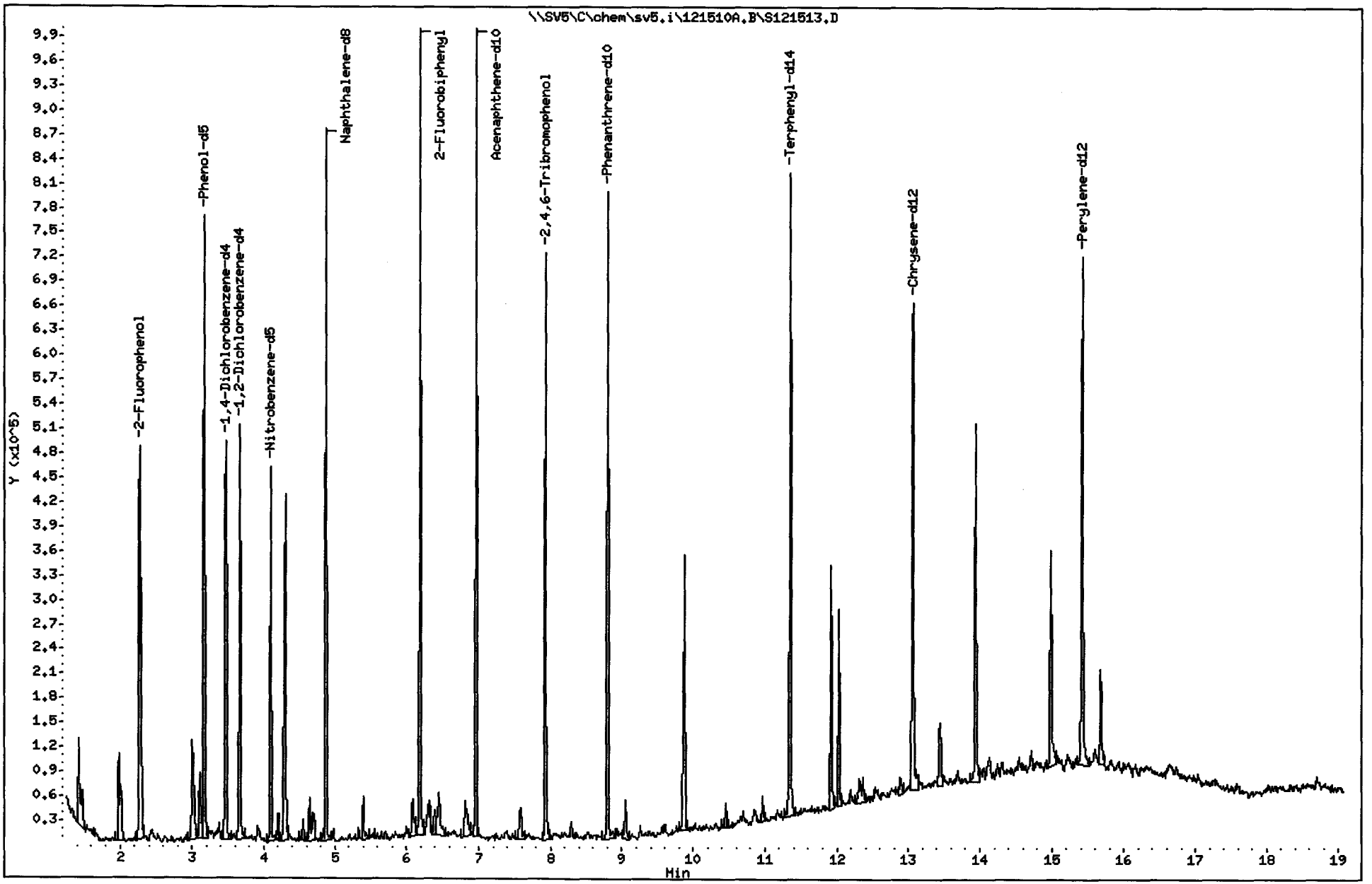
TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA9001AA G0L130000- Client Smp ID: 0347431
Level: LOW Operator: KT
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\SV5\C\chem\sv5.i\121510A.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	71.49	71.49	41-105
$ 8 Phenol-d5	100.0	80.62	80.62	43-122
$ 10 1,2-Dichlorobenzen	50.00	36.94	73.88	60-120
$ 11 Nitrobenzene-d5	50.00	41.59	83.19	46-118
$ 12 2-Fluorobiphenyl	50.00	43.63	87.26	58-105
$ 13 2,4,6-Tribromophen	100.0	80.25	80.25	61-118
$ 14 Terphenyl-d14	50.00	42.51	85.02	69-110

Data File: \\SV5\C\chem\sv5.i\121510A.B\S121513.D
Date : 15-DEC-2010 21:44
Client ID: 0347431
Instrument: sv5.i
Sample Info: MA9001AA GOL130000-431B;0;;;1000;;1000;5
Volume Injected (uL): 1.0
Operator: KT
Column phase:
Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\121510A.B\S121514.D
Lab Smp Id: MA9001AC G0L130000-
Inj Date : 15-DEC-2010 22:09
Operator : KT Inst ID: sv5.i
Smp Info : MA9001AC G0L130000-431C;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\121510A.B\8270f.m
Meth Date : 16-Dec-2010 11:40 sv5.i Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SACP307UM

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	
* 1 1,4-Dichlorobenzene-d4	152	3.470	3.470	(1.000)	89360	40.0000		(q)
* 2 Naphthalene-d8	136	4.869	4.869	(1.000)	373767	40.0000		
* 3 Acenaphthene-d10	164	6.962	6.962	(1.000)	195747	40.0000		
* 4 Phenanthrene-d10	188	8.807	8.807	(1.000)	310949	40.0000		
* 5 Chrysene-d12	240	13.066	13.066	(1.000)	301640	40.0000		
* 6 Perylene-d12	264	15.418	15.419	(1.000)	295612	40.0000		
$ 7 2-Fluorophenol	112	2.268	2.268	(0.654)	238863	75.8352	75.84	
$ 8 Phenol-d5	99	3.159	3.159	(0.910)	316468	79.9001	79.90	
$ 10 1,2-Dichlorobenzene-d4	152	Compound Not Detected.						
$ 11 Nitrobenzene-d5	82	4.092	4.092	(0.840)	132609	41.8886	41.89	
$ 12 2-Fluorobiphenyl	172	6.185	6.185	(0.888)	268143	42.5245	42.52	
$ 13 2,4,6-Tribromophenol	330	7.926	7.926	(1.138)	79010	92.8881	92.89	
$ 14 Terphenyl-d14	244	11.346	11.346	(0.868)	234558	39.4779	39.48	
108 Hexachlorobenzene	284	8.403	8.403	(0.954)	144159	85.0403	85.04	

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

12/16/10

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA9001AC G0L130000-
Level: LOW Operator: KT
Data Type: MS DATA SampleType: LCS
SpikeList File: S11JZHCB.SPK Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\sv5\c\chem\sv5.i\121510A.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	85.04	85.04	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	75.84	75.84	41-105
$ 8 Phenol-d5	100.0	79.90	79.90	43-122
$ 10 1,2-Dichlorobenze	50.00	0.0000	*	60-120
$ 11 Nitrobenzene-d5	50.00	41.89	83.78	46-118
$ 12 2-Fluorobiphenyl	50.00	42.52	85.05	58-105
$ 13 2,4,6-Tribromophen	100.0	92.89	92.89	61-118
$ 14 Terphenyl-d14	50.00	39.48	78.96	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\121510A.B\S121514.D
Lab Smp Id: MA9001AC G0L130000-
Inj Date : 15-DEC-2010 22:09
Operator : KT Inst ID: sv5.i
Smp Info : MA9001AC G0L130000-431C;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\121510A.B\8270F.m
Meth Date : 15-Dec-2010 16:45 semivoa Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SV5

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 1	1,4-Dichlorobenzene-d4	152	3.470	3.470	(1.000)	89360	40.0000		(q)
* 2	Naphthalene-d8	136	4.869	4.869	(1.000)	373767	40.0000		
* 3	Acenaphthene-d10	164	6.962	6.962	(1.000)	195747	40.0000		
* 4	Phenanthrene-d10	188	8.807	8.807	(1.000)	310949	40.0000		
* 5	Chrysene-d12	240	13.066	13.066	(1.000)	301640	40.0000		
* 6	Perylene-d12	264	15.418	15.419	(1.000)	295612	40.0000		
$ 7	2-Fluorophenol	112	2.268	2.268	(0.654)	238863	75.8352	75.84	
$ 8	Phenol-d5	99	3.159	3.159	(0.910)	316468	79.9001	79.90	
$ 10	1,2-Dichlorobenzene-d4	152	3.470	3.667	(1.000)	89359	40.6035	40.60	(Q)
$ 11	Nitrobenzene-d5	82	4.092	4.092	(0.840)	132609	41.8886	41.89	
$ 12	2-Fluorobiphenyl	172	6.185	6.185	(0.888)	268143	42.5245	42.52	
$ 13	2,4,6-Tribromophenol	330	7.926	7.926	(1.138)	79010	92.8881	92.89	
$ 14	Terphenyl-d14	244	11.346	11.346	(0.868)	234558	39.4779	39.48	
108	Hexachlorobenzene	284	8.403	8.403	(0.954)	144159	85.0403	85.04	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S121514.D
Lab Smp Id: MA9001AC G0L130000-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\121510A.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

Calibration Date: 15-DEC-2010
Calibration Time: 16:26
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	89360	-27.13
2 Naphthalene-d8	530514	265257	1061028	373767	-29.55
3 Acenaphthene-d10	282538	141269	565076	195747	-30.72
4 Phenanthrene-d10	462722	231361	925444	310949	-32.80
5 Chrysene-d12	435850	217925	871700	301640	-30.79
6 Perylene-d12	422284	211142	844568	295612	-30.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.47	2.97	3.97	3.47	-0.00
2 Naphthalene-d8	4.87	4.37	5.37	4.87	-0.00
3 Acenaphthene-d10	6.96	6.46	7.46	6.96	-0.00
4 Phenanthrene-d10	8.81	8.31	9.31	8.81	-0.00
5 Chrysene-d12	13.07	12.57	13.57	13.07	-0.00
6 Perylene-d12	15.42	14.92	15.92	15.42	-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 West Sacramento

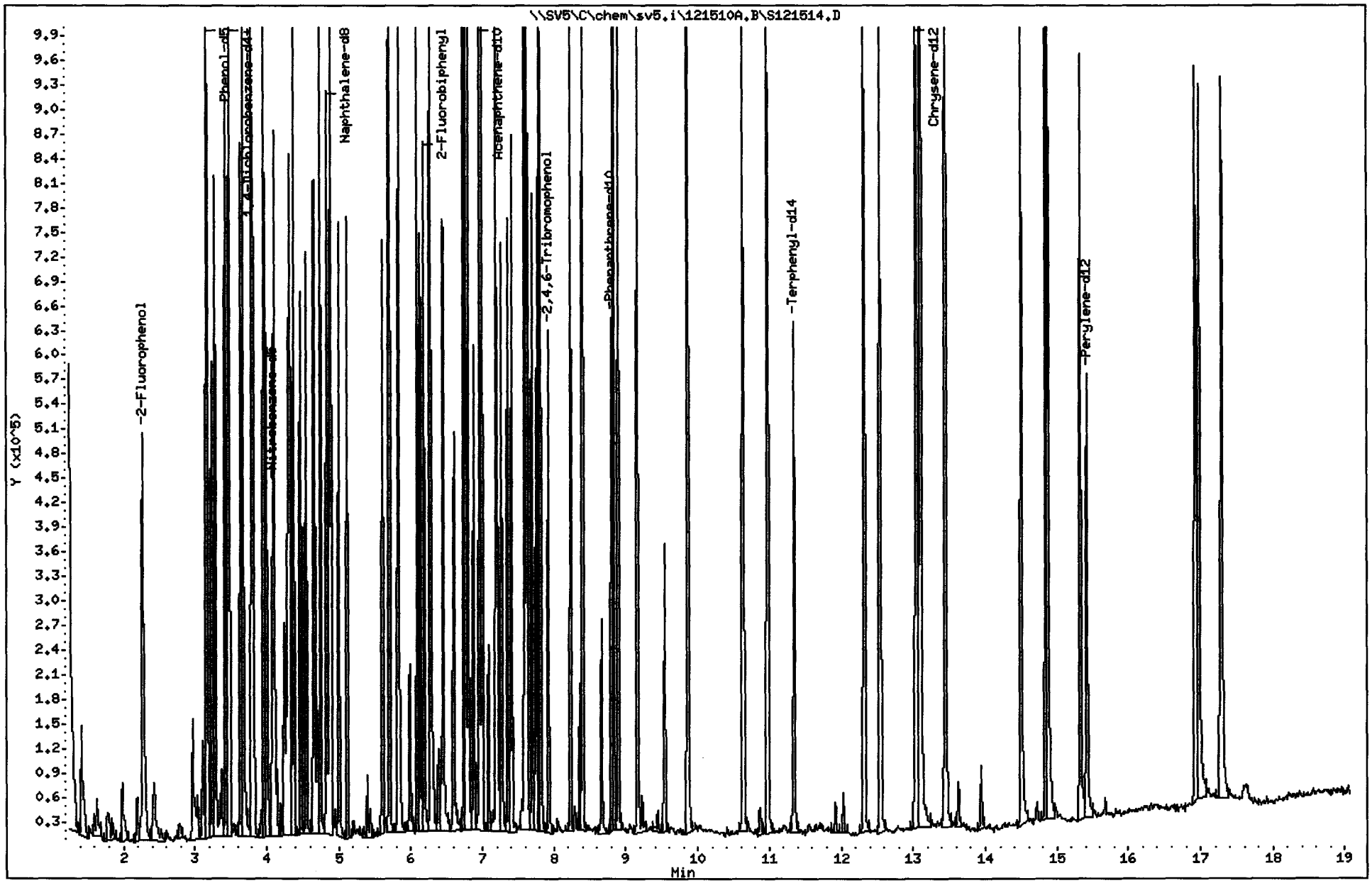
RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA9001AC G0L130000-
Level: LOW Operator: KT
Data Type: MS DATA SampleType: LCS
SpikeList File: S11JZHCB.SPK Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\SV5\C\chem\sv5.i\121510A.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	85.04	85.04	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	75.84	75.84	41-105
$ 8 Phenol-d5	100.0	79.90	79.90	43-122
$ 10 1,2-Dichlorobenzen	50.00	40.60	81.21	60-120
$ 11 Nitrobenzene-d5	50.00	41.89	83.78	46-118
$ 12 2-Fluorobiphenyl	50.00	42.52	85.05	58-105
$ 13 2,4,6-Tribromophen	100.0	92.89	92.89	61-118
$ 14 Terphenyl-d14	50.00	39.48	78.96	69-110

Data File: \\SV5\C\chem\sv5.i\121510A.B\S121514.D
Date : 15-DEC-2010 22:09
Client ID:
Instrument: sv5.i
Sample Info: MA9001AC GOL130000-431C;3;LCS;;1000;;1000;2
Volume Injected (uL): 1.0
Operator: KT
Column phase:
Column diameter: 2.00



Data File: \\SV5\C\chem\sv5.i\121510A.B\S121514.D

Date : 15-DEC-2010 22:09

Client ID:

Instrument: sv5.i

Sample Info: MA9001AC G0L130000-431C;3;LCS;;1000;;1000;2

Volume Injected (uL): 1.0

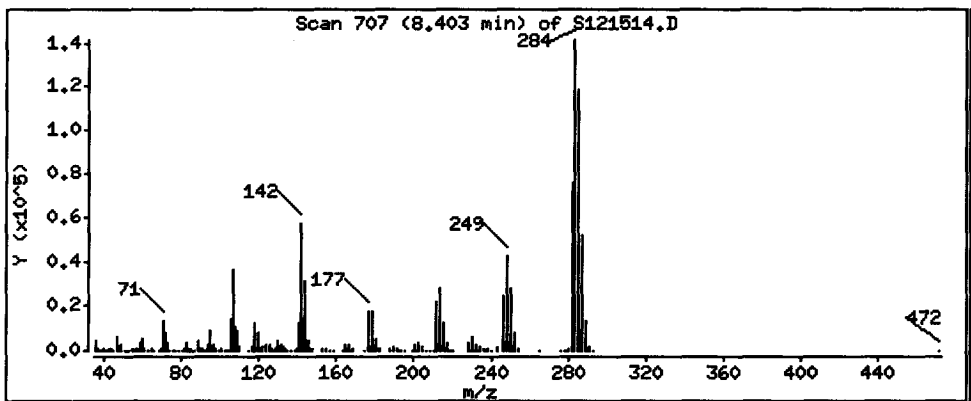
Operator: KT

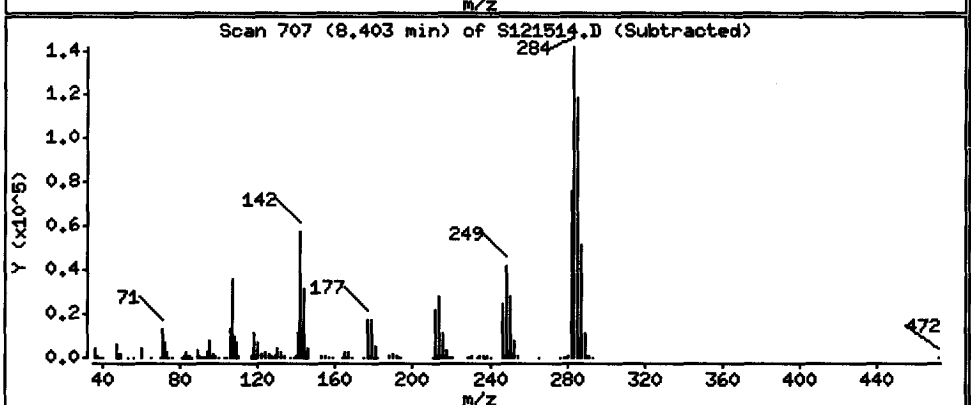
Column phase:

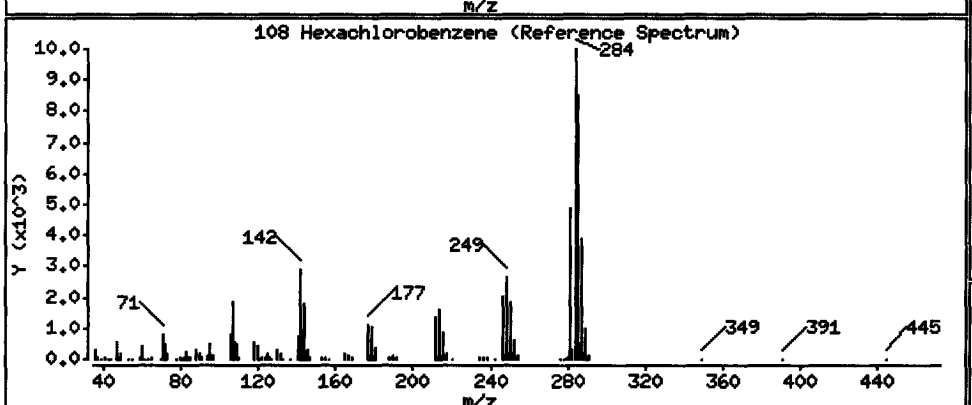
Column diameter: 2.00

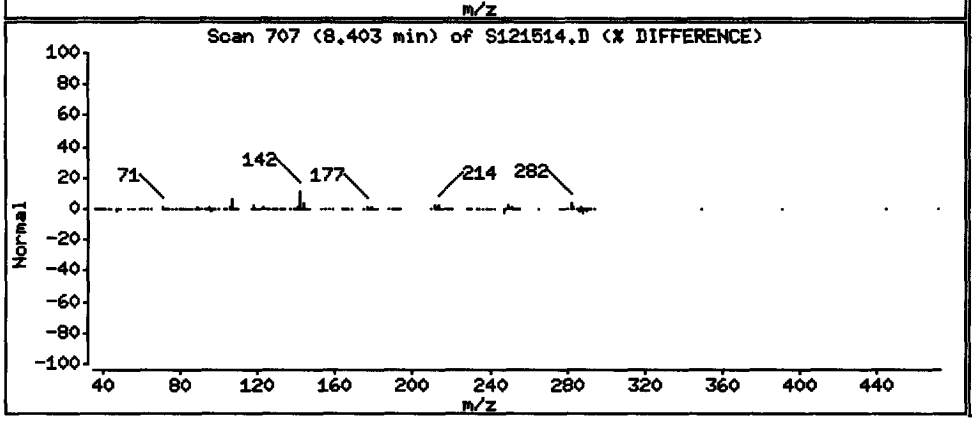
108 Hexachlorobenzene

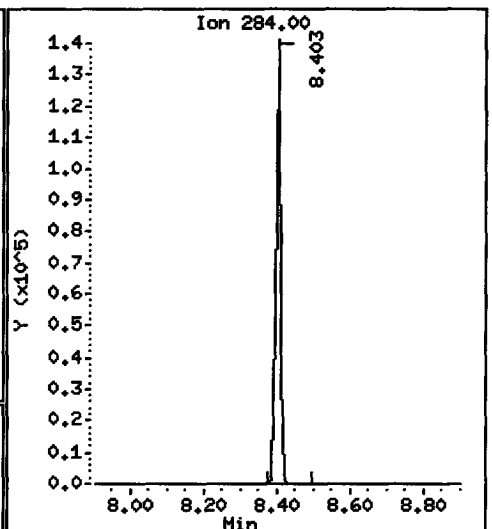
Concentration: 85.04 ug/L

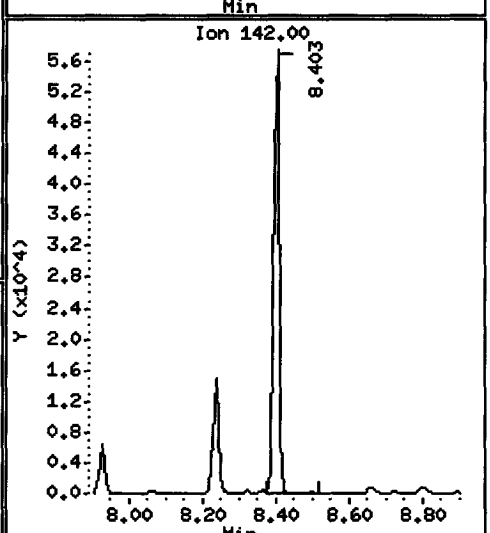


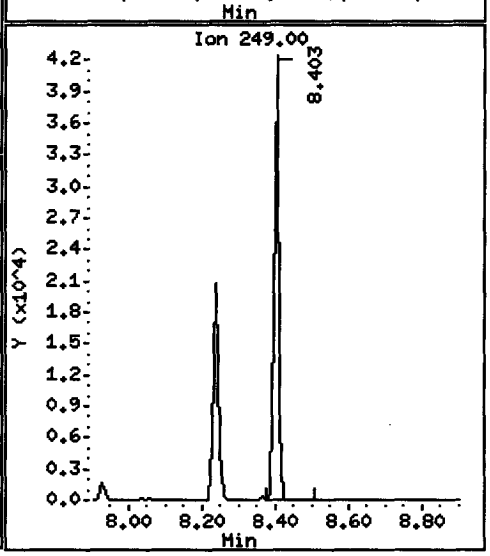












TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\121510A.B\S121515.D
Lab Smp Id: MA9001AD G0L130000-
Inj Date : 15-DEC-2010 22:33
Operator : KT Inst ID: sv5.i
Smp Info : MA9001AD G0L130000-431L;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\121510A.B\8270f.m
Meth Date : 16-Dec-2010 11:40 sv5.i Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 15 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SACP307UM

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	
* 1 1,4-Dichlorobenzene-d4	152	3.459	3.470	(1.000)	141649	40.0000		(Q)
* 2 Naphthalene-d8	136	4.869	4.869	(1.000)	621342	40.0000		
* 3 Acenaphthene-d10	164	6.962	6.962	(1.000)	334558	40.0000		
* 4 Phenanthrene-d10	188	8.807	8.807	(1.000)	559368	40.0000		
* 5 Chrysene-d12	240	13.066	13.066	(1.000)	568770	40.0000		
* 6 Perylene-d12	264	15.418	15.419	(1.000)	563692	40.0000		
$ 7 2-Fluorophenol	112	2.268	2.268	(0.656)	365359	73.1765	73.18	
$ 8 Phenol-d5	99	3.159	3.159	(0.913)	495125	78.8610	78.86	
$ 10 1,2-Dichlorobenzene-d4	152	Compound Not Detected.						
$ 11 Nitrobenzene-d5	82	4.091	4.092	(0.840)	206629	39.2631	39.26	
$ 12 2-Fluorobiphenyl	172	6.185	6.185	(0.888)	452837	42.0183	42.02	
$ 13 2,4,6-Tribromophenol	330	7.936	7.926	(1.140)	150790	103.723	103.7	
$ 14 Terphenyl-d14	244	11.346	11.346	(0.868)	462288	41.2637	41.26	
108 Hexachlorobenzene	284	8.402	8.403	(0.954)	279348	91.6052	91.60	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

10/16/10

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA9001AD G0L130000-
Level: LOW Operator: KT
Data Type: MS DATA SampleType: LCSD
SpikeList File: S11JZHCB.SPK Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\sv5\c\chem\sv5.i\121510A.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	91.60	91.61	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	73.18	73.18	41-105
$ 8 Phenol-d5	100.0	78.86	78.86	43-122
$ 10 1,2-Dichlorobenze	50.00	0.0000	*	60-120
$ 11 Nitrobenzene-d5	50.00	39.26	78.53	46-118
$ 12 2-Fluorobiphenyl	50.00	42.02	84.04	58-105
$ 13 2,4,6-Tribromophen	100.0	103.7	103.72	61-118
$ 14 Terphenyl-d14	50.00	41.26	82.53	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\121510A.B\S121515.D
Lab Smp Id: MA9001AD G0L130000-
Inj Date : 15-DEC-2010 22:33
Operator : KT Inst ID: sv5.i
Smp Info : MA9001AD G0L130000-431L;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\121510A.B\8270F.m
Meth Date : 15-Dec-2010 16:45 semivoa Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 15 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SV5

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 1	1,4-Dichlorobenzene-d4	152	3.459	3.470	(1.000)	141649	40.0000		(Q)
* 2	Naphthalene-d8	136	4.869	4.869	(1.000)	621342	40.0000		
* 3	Acenaphthene-d10	164	6.962	6.962	(1.000)	334558	40.0000		
* 4	Phenanthrene-d10	188	8.807	8.807	(1.000)	559368	40.0000		
* 5	Chrysene-d12	240	13.066	13.066	(1.000)	568770	40.0000		
* 6	Perylene-d12	264	15.418	15.419	(1.000)	563692	40.0000		
$ 7	2-Fluorophenol	112	2.268	2.268	(0.656)	365359	73.1765	73.18	
$ 8	Phenol-d5	99	3.159	3.159	(0.913)	495125	78.8610	78.86	
$ 10	1,2-Dichlorobenzene-d4	152	3.459	3.667	(1.000)	141649	40.6039	40.60	(Q)
$ 11	Nitrobenzene-d5	82	4.091	4.092	(0.840)	206629	39.2631	39.26	
$ 12	2-Fluorobiphenyl	172	6.185	6.185	(0.888)	452837	42.0183	42.02	
$ 13	2,4,6-Tribromophenol	330	7.936	7.926	(1.140)	150790	103.723	103.7	
$ 14	Terphenyl-d14	244	11.346	11.346	(0.868)	462288	41.2637	41.26	
108	Hexachlorobenzene	284	8.402	8.403	(0.954)	279348	91.6052	91.60	

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: S121515.D
Lab Smp Id: MA9001AD G0L130000-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\121510A.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

Calibration Date: 15-DEC-2010
Calibration Time: 16:26
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	141649	15.51
2 Naphthalene-d8	530514	265257	1061028	621342	17.12
3 Acenaphthene-d10	282538	141269	565076	334558	18.41
4 Phenanthrene-d10	462722	231361	925444	559368	20.89
5 Chrysene-d12	435850	217925	871700	568770	30.50
6 Perylene-d12	422284	211142	844568	563692	33.49

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.47	2.97	3.97	3.46	-0.31
2 Naphthalene-d8	4.87	4.37	5.37	4.87	-0.01
3 Acenaphthene-d10	6.96	6.46	7.46	6.96	-0.00
4 Phenanthrene-d10	8.81	8.31	9.31	8.81	-0.00
5 Chrysene-d12	13.07	12.57	13.57	13.07	-0.00
6 Perylene-d12	15.42	14.92	15.92	15.42	-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 West Sacramento

RECOVERY REPORT

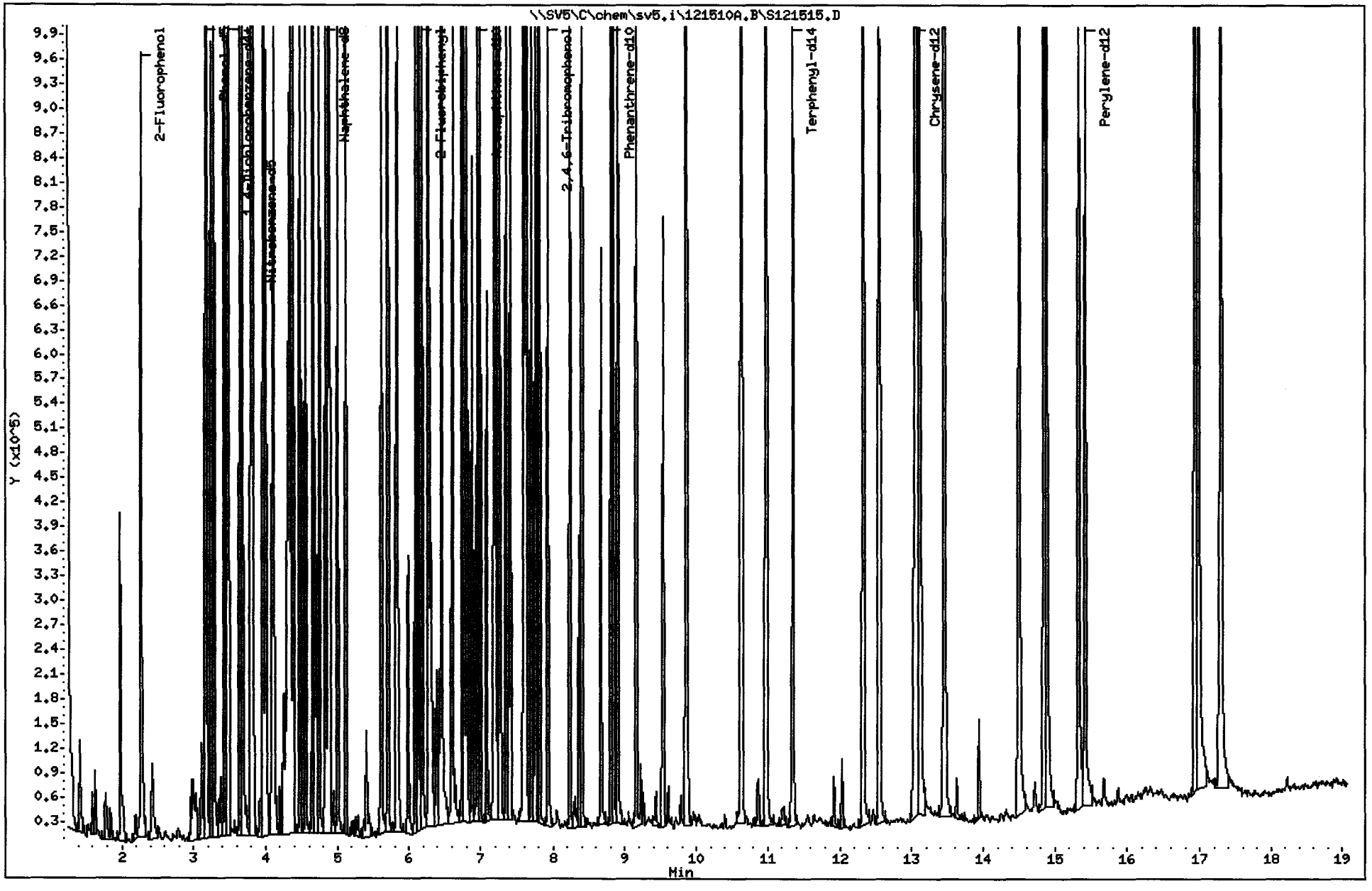
Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA9001AD G0L130000-
Level: LOW Operator: KT
Data Type: MS DATA SampleType: LCSD
SpikeList File: S11JZHCB.SPK Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\SV5\C\chem\sv5.i\121510A.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
108 Hexachlorobenzene	100.0	91.60	91.61	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	73.18	73.18	41-105
$ 8 Phenol-d5	100.0	78.86	78.86	43-122
$ 10 1,2-Dichlorobenzen	50.00	40.60	81.21	60-120
$ 11 Nitrobenzene-d5	50.00	39.26	78.53	46-118
$ 12 2-Fluorobiphenyl	50.00	42.02	84.04	58-105
$ 13 2,4,6-Tribromophen	100.0	103.7	103.72	61-118
$ 14 Terphenyl-d14	50.00	41.26	82.53	69-110

Data File: \\SV5\C\chem\sv5.i\121510A.B\S121515.D
Date : 15-DEC-2010 22:33
Client ID:
Sample Info: MA9001AD G0L130000-431L;3;LCSD;;1000;;1000;2
Volume Injected (uL): 1.0
Column phase:

Instrument: sv5.i
Operator: KT
Column diameter: 2.00



Data File: \\SV5\C\chem\sv5.i\121510A.B\S121515.D

Date : 15-DEC-2010 22:33

Client ID:

Instrument: sv5.i

Sample Info: MA9001AD G0L130000-431L;3;LCSD;;1000;;1000;2

Volume Injected (uL): 1.0

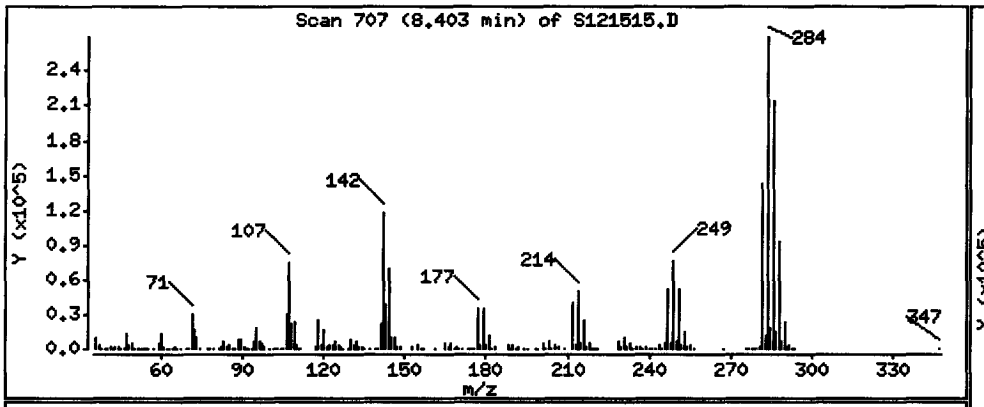
Operator: KT

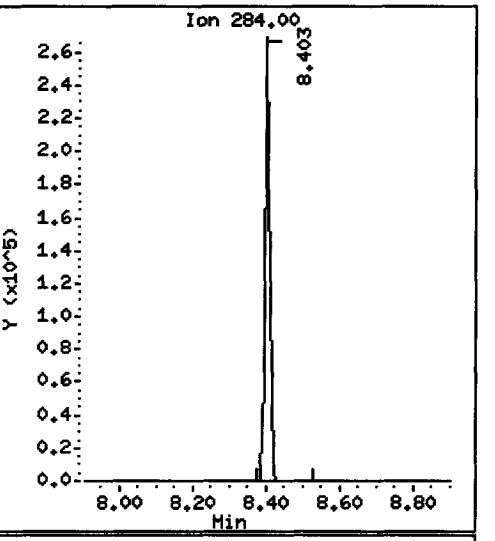
Column phase:

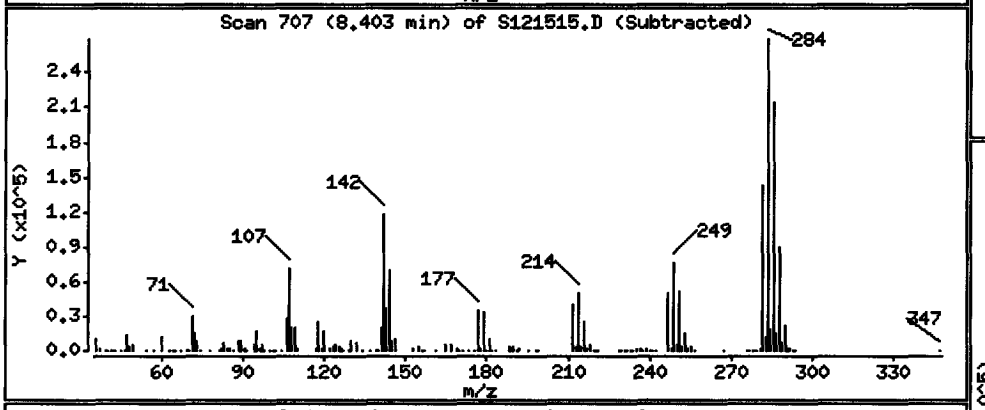
Column diameter: 2.00

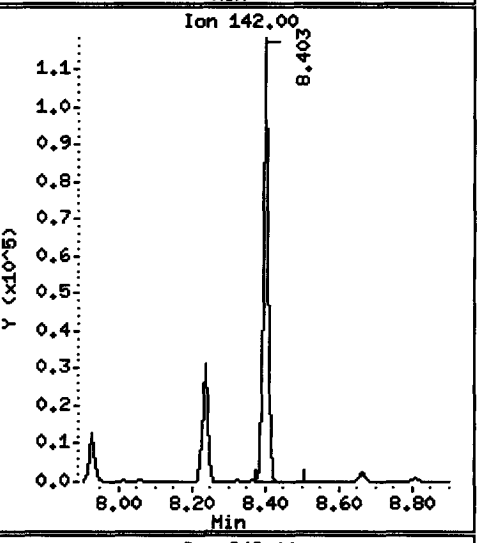
108 Hexachlorobenzene

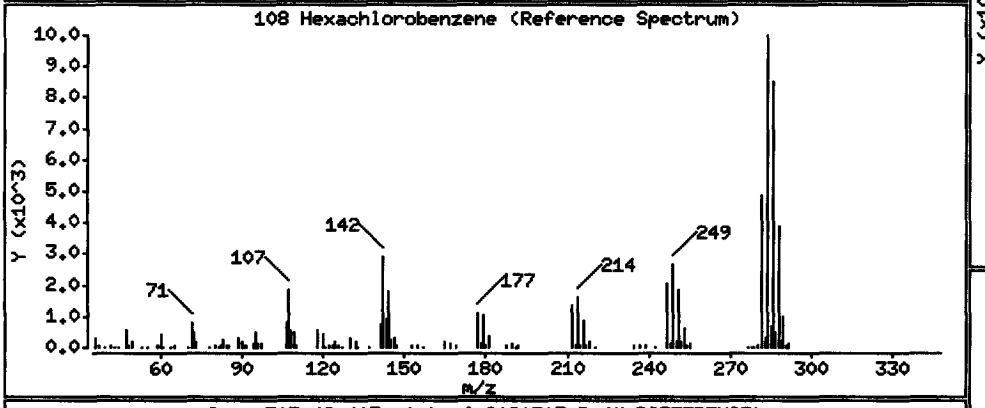
Concentration: 91.60 ug/L

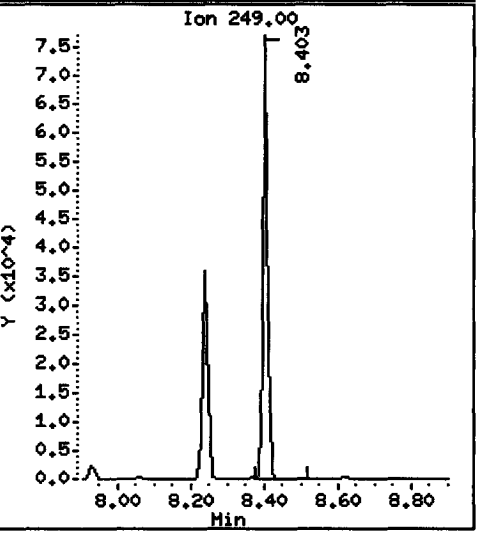


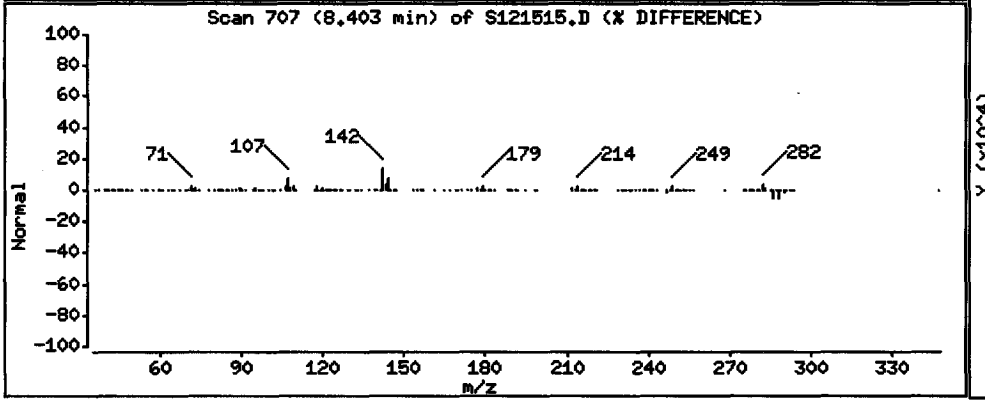












TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\121510A.B\S121516.D
Lab Smp Id: MA8DG1AA G0L110441- Client Smp ID: 0347431
Inj Date : 15-DEC-2010 22:58
Operator : KT Inst ID: sv5.i
Smp Info : MA8DG1AA G0L110441-3;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M
Comment : SOP SAC-MS-0005
Method : \\sv5\c\chem\sv5.i\121510A.B\8270f.m
Meth Date : 16-Dec-2010 11:40 sv5.i Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SACP307UM

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	
* 1	1,4-Dichlorobenzene-d4	152	3.470	3.470	(1.000)	99622	40.0000		(q)
* 2	Naphthalene-d8	136	4.869	4.869	(1.000)	421959	40.0000		
* 3	Acenaphthene-d10	164	6.962	6.962	(1.000)	223055	40.0000		
* 4	Phenanthrene-d10	188	8.807	8.807	(1.000)	363544	40.0000		
* 5	Chrysene-d12	240	13.066	13.066	(1.000)	326612	40.0000		
* 6	Perylene-d12	264	15.418	15.419	(1.000)	308400	40.0000		
$ 7	2-Fluorophenol	112	2.268	2.268	(0.654)	211417	60.2074	60.21	
$ 8	Phenol-d5	99	3.159	3.159	(0.910)	296423	67.1301	67.13	
$ 10	1,2-Dichlorobenzene-d4	152	3.667	3.667	(1.057)	65355	26.6374	26.64	(qR)
$ 11	Nitrobenzene-d5	82	4.092	4.092	(0.840)	109279	30.5767	30.58	
$ 12	2-Fluorobiphenyl	172	6.185	6.185	(0.888)	166817	23.2165	23.22	(R)
$ 13	2,4,6-Tribromophenol	330	7.926	7.926	(1.138)	26914	27.7677	27.77	(R)
$ 14	Terphenyl-d14	244	11.346	11.346	(0.868)	78529	12.2065	12.21	(R)
108	Hexachlorobenzene	284	8.403	8.403	(0.954)	1236	0.62364	0.6236	(aQ)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

low surrogate matrix
12/16/10

QC Flag Legend

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

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA8DG1AA G0L110441- Client Smp ID: 0347431
Level: LOW Operator: KT
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\sv5\c\chem\sv5.i\121510A.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	60.21	60.21	41-105
$ 8 Phenol-d5	100.0	67.13	67.13	43-122
$ 10 1,2-Dichlorobenzen	50.00	26.64	53.27*	60-120
$ 11 Nitrobenzene-d5	50.00	30.58	61.15	46-118
$ 12 2-Fluorobiphenyl	50.00	23.22	46.43*	58-105
$ 13 2,4,6-Tribromophen	100.0	27.77	27.77*	61-118
$ 14 Terphenyl-d14	50.00	12.21	24.41*	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\121510A.B\S121516.D
Lab Smp Id: MA8DG1AA G0L110441- Client Smp ID: 0347431
Inj Date : 15-DEC-2010 22:58
Operator : KT Inst ID: sv5.i
Smp Info : MA8DG1AA G0L110441-3;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M
Comment : SOP SAC-MS-0005
Method : \\SV5\C\chem\sv5.i\121510A.B\8270F.m
Meth Date : 15-Dec-2010 16:45 semivoa Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SV5

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 1	1,4-Dichlorobenzene-d4	152	3.470	3.470	(1.000)	99622	40.0000	(q)
* 2	Naphthalene-d8	136	4.869	4.869	(1.000)	421959	40.0000	
* 3	Acenaphthene-d10	164	6.962	6.962	(1.000)	223055	40.0000	
* 4	Phenanthrene-d10	188	8.807	8.807	(1.000)	363544	40.0000	
* 5	Chrysene-d12	240	13.066	13.066	(1.000)	326612	40.0000	
* 6	Perylene-d12	264	15.418	15.419	(1.000)	308400	40.0000	
$ 7	2-Fluorophenol	112	2.268	2.268	(0.654)	211417	60.2074	60.21
$ 8	Phenol-d5	99	3.159	3.159	(0.910)	296423	67.1301	67.13
$ 10	1,2-Dichlorobenzene-d4	152	3.667	3.667	(1.057)	65355	26.6374	26.64(qR)
$ 11	Nitrobenzene-d5	82	4.092	4.092	(0.840)	109279	30.5767	30.58
$ 12	2-Fluorobiphenyl	172	6.185	6.185	(0.888)	166817	23.2165	23.22(R)
$ 13	2,4,6-Tribromophenol	330	7.926	7.926	(1.138)	26914	27.7677	27.77(R)
$ 14	Terphenyl-d14	244	11.346	11.346	(0.868)	78529	12.2065	12.21(R)
108	Hexachlorobenzene	284	8.403	8.403	(0.954)	1236	0.62364	0.6236(aQ)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S121516.D
Lab Smp Id: MA8DG1AA G0L110441-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\121510A.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M

Calibration Date: 15-DEC-2010
Calibration Time: 16:26
Client Smp ID: 0347431
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	99622	-18.76
2 Naphthalene-d8	530514	265257	1061028	421959	-20.46
3 Acenaphthene-d10	282538	141269	565076	223055	-21.05
4 Phenanthrene-d10	462722	231361	925444	363544	-21.43
5 Chrysene-d12	435850	217925	871700	326612	-25.06
6 Perylene-d12	422284	211142	844568	308400	-26.97

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.47	2.97	3.97	3.47	-0.00
2 Naphthalene-d8	4.87	4.37	5.37	4.87	-0.00
3 Acenaphthene-d10	6.96	6.46	7.46	6.96	-0.00
4 Phenanthrene-d10	8.81	8.31	9.31	8.81	-0.00
5 Chrysene-d12	13.07	12.57	13.57	13.07	-0.00
6 Perylene-d12	15.42	14.92	15.92	15.42	-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 West Sacramento

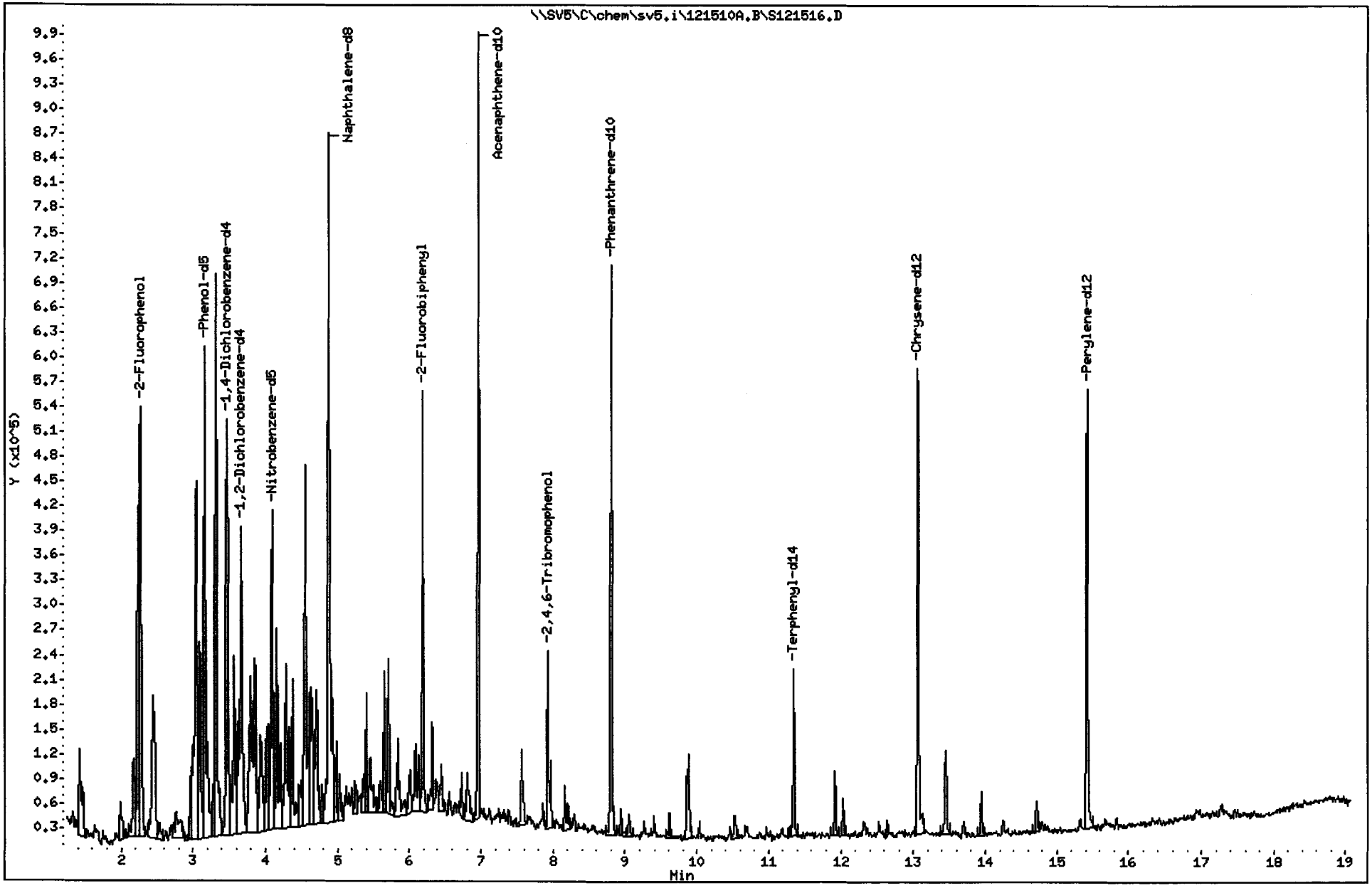
RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA8DG1AA G0L110441- Client Smp ID: 0347431
Level: LOW Operator: KT
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\SV5\C\chem\sv5.i\121510A.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	60.21	60.21	41-105
$ 8 Phenol-d5	100.0	67.13	67.13	43-122
$ 10 1,2-Dichlorobenzen	50.00	26.64	53.27*	60-120
$ 11 Nitrobenzene-d5	50.00	30.58	61.15	46-118
$ 12 2-Fluorobiphenyl	50.00	23.22	46.43*	58-105
$ 13 2,4,6-Tribromophen	100.0	27.77	27.77*	61-118
$ 14 Terphenyl-d14	50.00	12.21	24.41*	69-110

Data File: \\SV5\C\chem\sv5.i\121510A.B\S121516.D
Date : 15-DEC-2010 22:58
Client ID: 0347431
Sample Info: MA8DG1AA GOL110441-3;0;;;1000;;1000;5
Volume Injected (uL): 1.0
Column phase:

Instrument: sv5.i
Operator: KT
Column diameter: 2.00



Data File: \\SV5\C\chem\sv5.i\121510A.B\S121516.D

Date : 15-DEC-2010 22:58

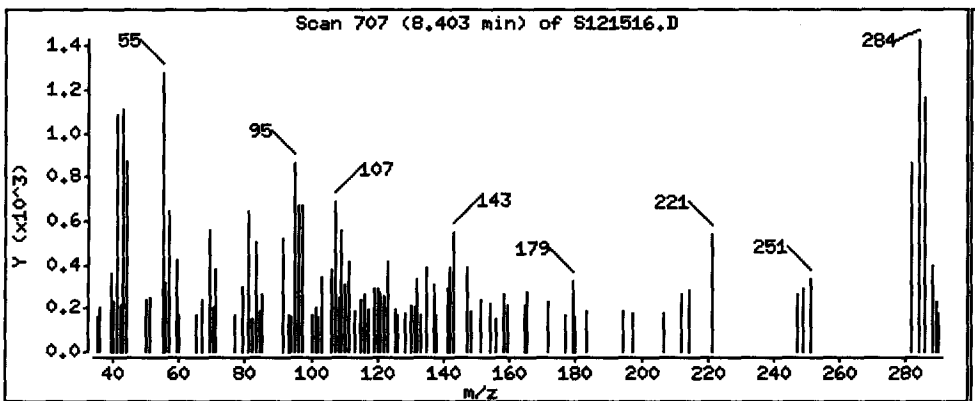
Client ID: 0347431 Instrument: sv5.i

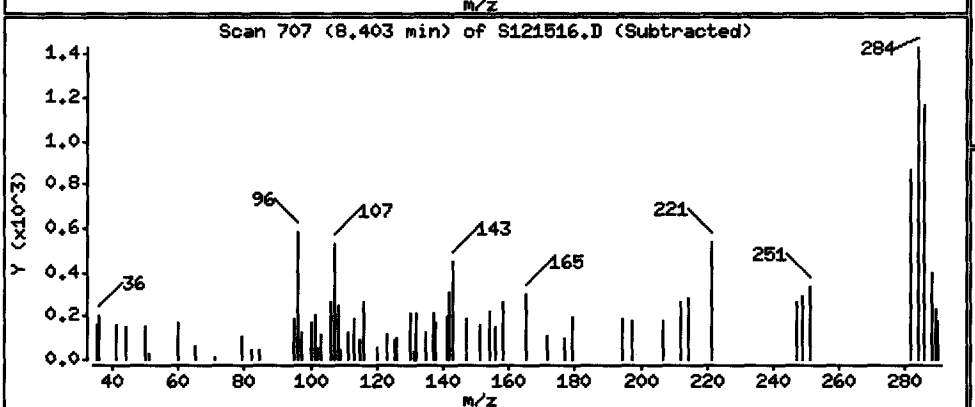
Sample Info: MA8DG1AA GOL110441-3;0;;;1000;;1000;5

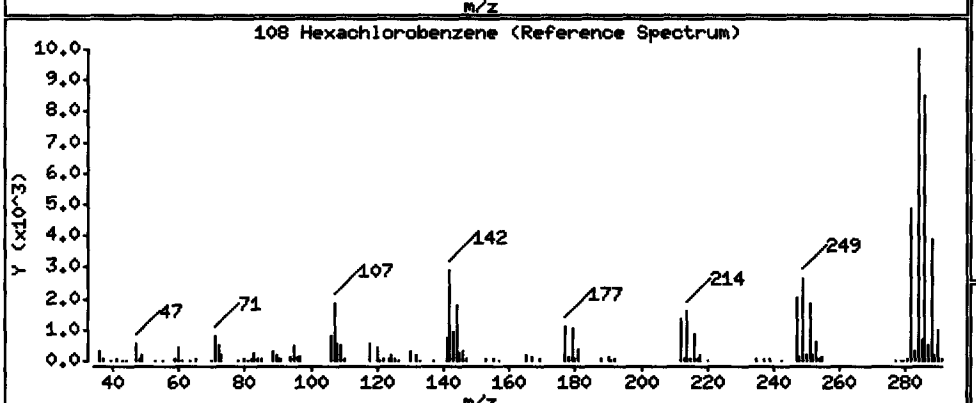
Volume Injected (uL): 1.0 Operator: KT

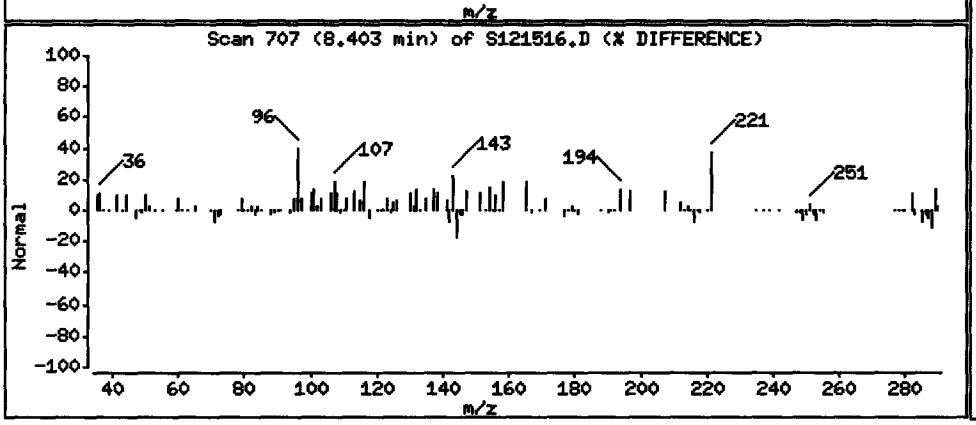
Column phase: Column diameter: 2.00

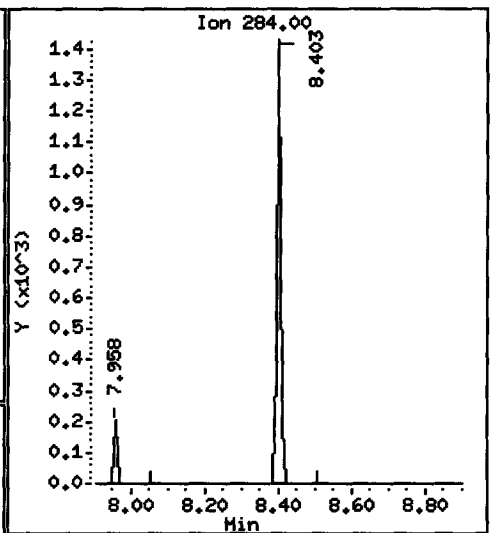
108 Hexachlorobenzene Concentration: 0.6236 ug/L

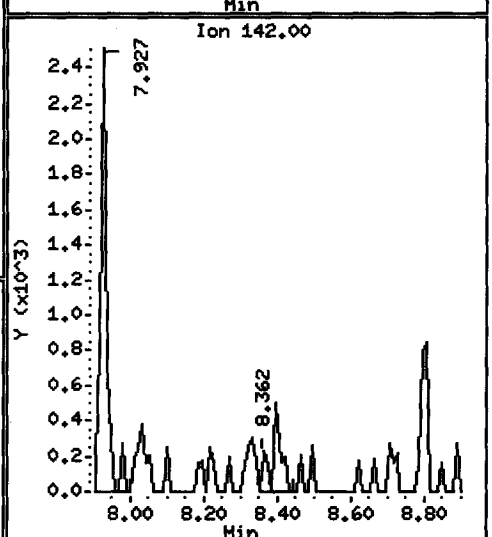


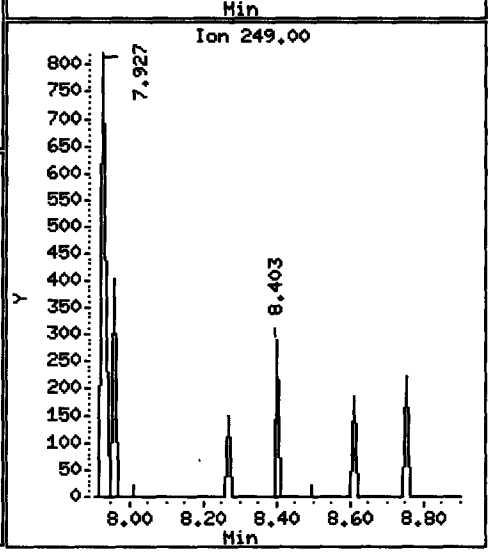












TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\121510A.B\S121517.D
Lab Smp Id: MA8DK1AA G0L110441- Client Smp ID: 0347431
Inj Date : 15-DEC-2010 23:22
Operator : KT Inst ID: sv5.i
Smp Info : MA8DK1AA G0L110441-6;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M
Comment : SOP SAC-MS-0005
Method : \\sv5\c\chem\sv5.i\121510A.B\8270f.m
Meth Date : 16-Dec-2010 11:40 sv5.i Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SACP307UM

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Dichlorobenzene-d4	152	3.459	3.470	(1.000)	198727	40.0000	
* 2	Naphthalene-d8	136	4.869	4.869	(1.000)	857730	40.0000	
* 3	Acenaphthene-d10	164	6.962	6.962	(1.000)	469622	40.0000	
* 4	Phenanthrene-d10	188	8.807	8.807	(1.000)	743954	40.0000	
* 5	Chrysene-d12	240	13.066	13.066	(1.000)	739224	40.0000	
* 6	Perylene-d12	264	15.418	15.419	(1.000)	740449	40.0000	
$ 7	2-Fluorophenol	112	2.268	2.268	(0.656)	414918	59.2340	59.23
$ 8	Phenol-d5	99	3.159	3.159	(0.913)	631515	71.6948	71.69
$ 10	1,2-Dichlorobenzene-d4	152	3.667	3.667	(1.060)	142023	29.0182	29.02(qR)
$ 11	Nitrobenzene-d5	82	4.092	4.092	(0.840)	241770	33.2794	33.28
$ 12	2-Fluorobiphenyl	172	6.185	6.185	(0.888)	365614	24.1681	24.17(R)
$ 13	2,4,6-Tribromophenol	330	7.926	7.926	(1.138)	49108	24.0645	24.06(R)
$ 14	Terphenyl-d14	244	11.346	11.346	(0.868)	150265	10.3199	10.32(R)
108	Hexachlorobenzene	284	8.403	8.403	(0.954)	21031	5.18545	5.185

QC Flag Legend

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

low surr. due to matrix
12/16/10

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA8DK1AA G0L110441- Client Smp ID: 0347431
Level: LOW Operator: KT
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\sv5\c\chem\sv5.i\121510A.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	59.23	59.23	41-105
$ 8 Phenol-d5	100.0	71.69	71.69	43-122
$ 10 1,2-Dichlorobenzen	50.00	29.02	58.04*	60-120
$ 11 Nitrobenzene-d5	50.00	33.28	66.56	46-118
$ 12 2-Fluorobiphenyl	50.00	24.17	48.34*	58-105
$ 13 2,4,6-Tribromophen	100.0	24.06	24.06*	61-118
$ 14 Terphenyl-d14	50.00	10.32	20.64*	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\121510A.B\S121517.D
Lab Smp Id: MA8DK1AA G0L110441- Client Smp ID: 0347431
Inj Date : 15-DEC-2010 23:22
Operator : KT Inst ID: sv5.i
Smp Info : MA8DK1AA G0L110441-6;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M
Comment : SOP SAC-MS-0005
Method : \\SV5\C\chem\sv5.i\121510A.B\8270F.m
Meth Date : 15-Dec-2010 16:45 semivoa Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SV5

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Dichlorobenzene-d4	152	3.459	3.470	(1.000)	198727	40.0000	
* 2	Naphthalene-d8	136	4.869	4.869	(1.000)	857730	40.0000	
* 3	Acenaphthene-d10	164	6.962	6.962	(1.000)	469622	40.0000	
* 4	Phenanthrene-d10	188	8.807	8.807	(1.000)	743954	40.0000	
* 5	Chrysene-d12	240	13.066	13.066	(1.000)	739224	40.0000	
* 6	Perylene-d12	264	15.418	15.419	(1.000)	740449	40.0000	
$ 7	2-Fluorophenol	112	2.268	2.268	(0.656)	414918	59.2340	59.23
$ 8	Phenol-d5	99	3.159	3.159	(0.913)	631515	71.6948	71.69
$ 10	1,2-Dichlorobenzene-d4	152	3.667	3.667	(1.060)	142023	29.0182	29.02(qR)
$ 11	Nitrobenzene-d5	82	4.092	4.092	(0.840)	241770	33.2794	33.28
$ 12	2-Fluorobiphenyl	172	6.185	6.185	(0.888)	365614	24.1681	24.17(R)
$ 13	2,4,6-Tribromophenol	330	7.926	7.926	(1.138)	49108	24.0645	24.06(R)
$ 14	Terphenyl-d14	244	11.346	11.346	(0.868)	150265	10.3199	10.32(R)
108	Hexachlorobenzene	284	8.403	8.403	(0.954)	21031	5.18545	5.185

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S121517.D
Lab Smp Id: MA8DK1AA G0L110441-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\121510A.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M

Calibration Date: 15-DEC-2010
Calibration Time: 16:26
Client Smp ID: 0347431
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	198727	62.06
2 Naphthalene-d8	530514	265257	1061028	857730	61.68
3 Acenaphthene-d10	282538	141269	565076	469622	66.22
4 Phenanthrene-d10	462722	231361	925444	743954	60.78
5 Chrysene-d12	435850	217925	871700	739224	69.61
6 Perylene-d12	422284	211142	844568	740449	75.34

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.47	2.97	3.97	3.46	-0.30
2 Naphthalene-d8	4.87	4.37	5.37	4.87	-0.00
3 Acenaphthene-d10	6.96	6.46	7.46	6.96	-0.00
4 Phenanthrene-d10	8.81	8.31	9.31	8.81	-0.00
5 Chrysene-d12	13.07	12.57	13.57	13.07	-0.00
6 Perylene-d12	15.42	14.92	15.92	15.42	-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 West Sacramento

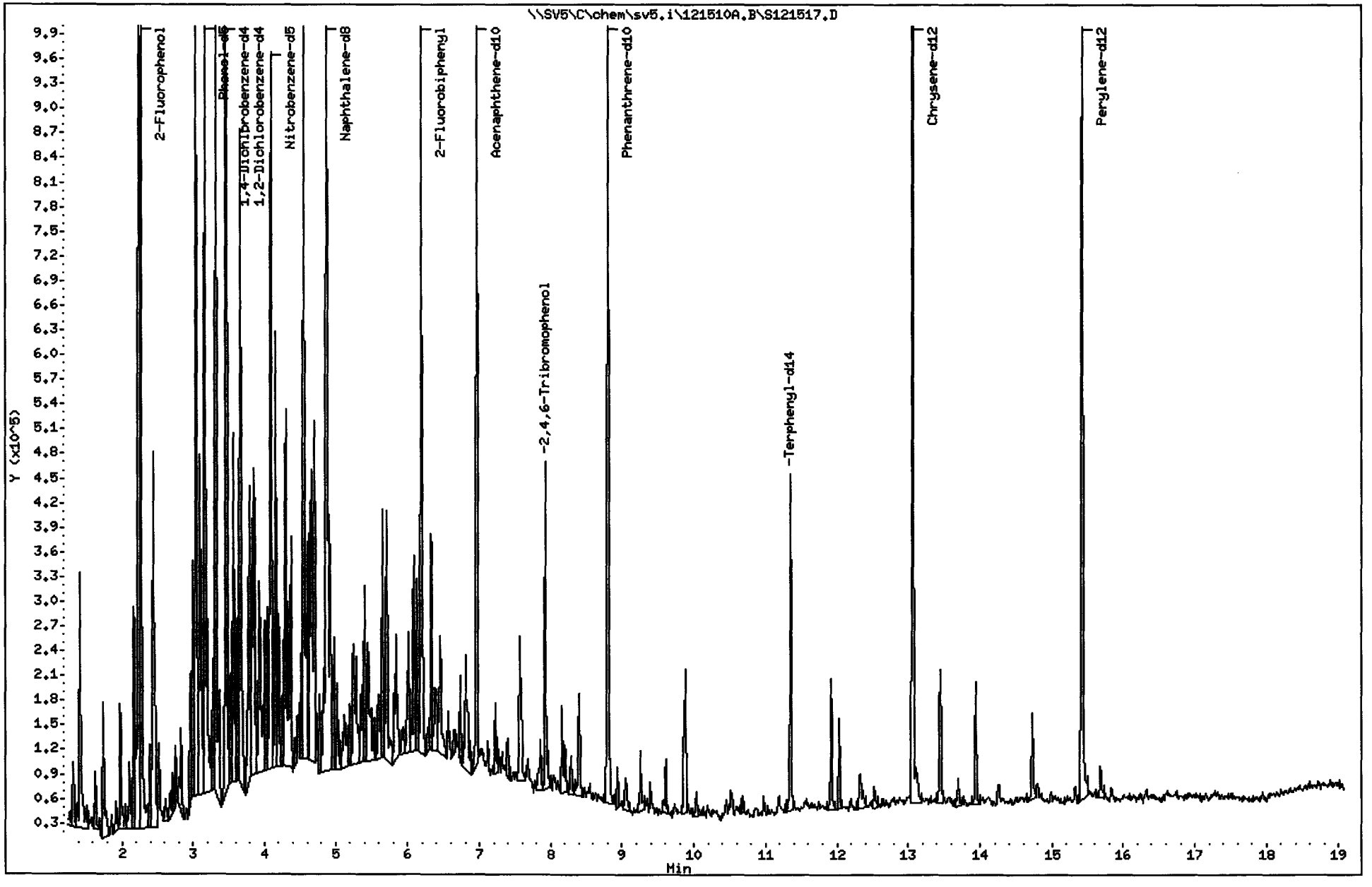
RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA8DK1AA G0L110441- Client Smp ID: 0347431
Level: LOW Operator: KT
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\SV5\C\chem\sv5.i\121510A.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	59.23	59.23	41-105
$ 8 Phenol-d5	100.0	71.69	71.69	43-122
$ 10 1,2-Dichlorobenzen	50.00	29.02	58.04*	60-120
$ 11 Nitrobenzene-d5	50.00	33.28	66.56	46-118
$ 12 2-Fluorobiphenyl	50.00	24.17	48.34*	58-105
$ 13 2,4,6-Tribromophen	100.0	24.06	24.06*	61-118
$ 14 Terphenyl-d14	50.00	10.32	20.64*	69-110

Data File: \\SV5\C\chem\sv5.i\121510A.B\S121517.D
Date : 15-DEC-2010 23:22
Client ID: 0347431
Sample Info: MA8DK1AA GOL110441-6;0;;;1000;;1000;5
Volume Injected (uL): 1.0
Column phase:

Instrument: sv5.i
Operator: KT
Column diameter: 2.00



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Date : 15-DEC-2010 23:22

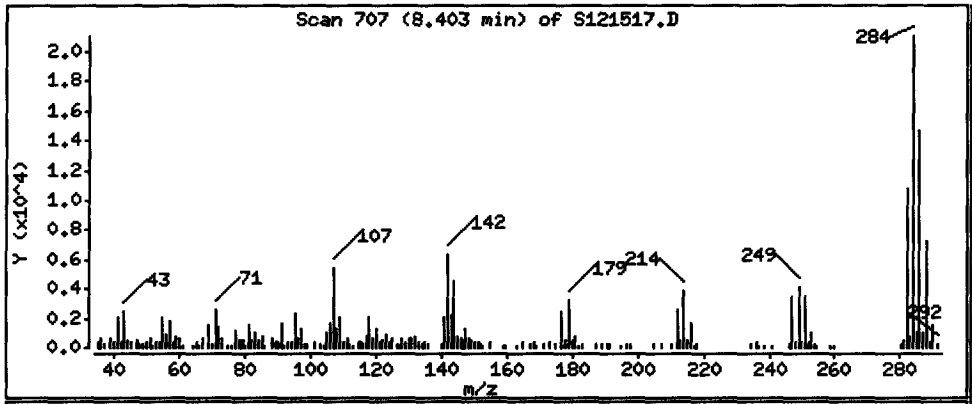
Client ID: 0347431 Instrument: sv5.i

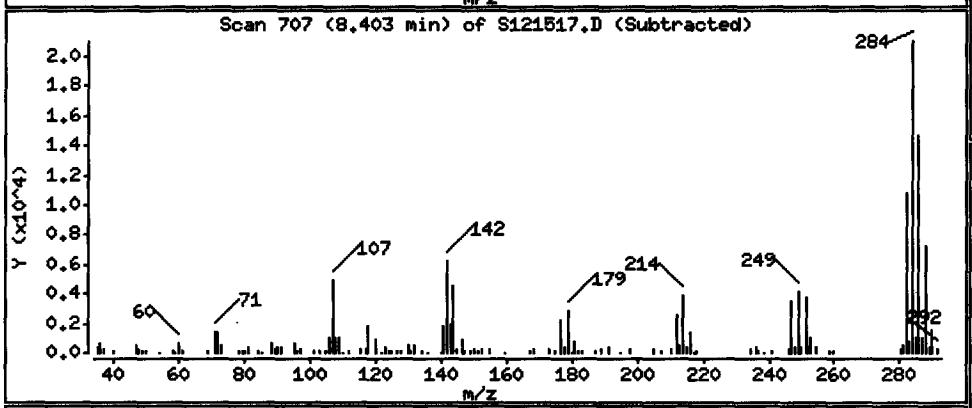
Sample Info: MASDK1AA GOL110441-6;0;;;1000;;1000;5

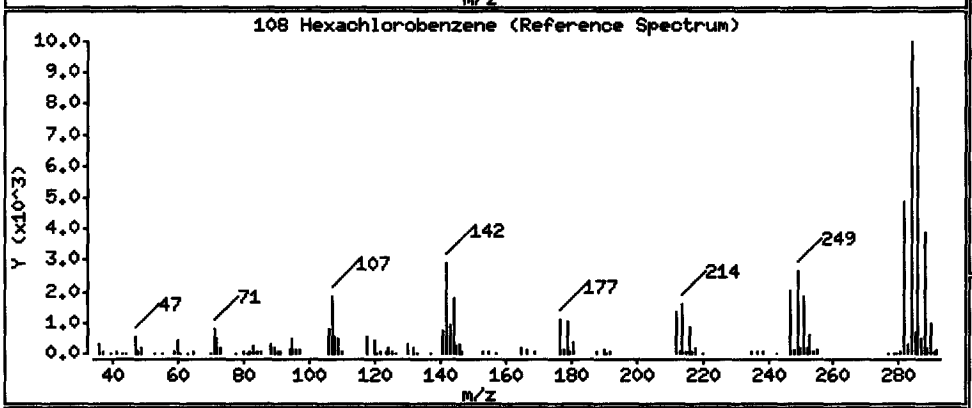
Volume Injected (uL): 1.0 Operator: KT

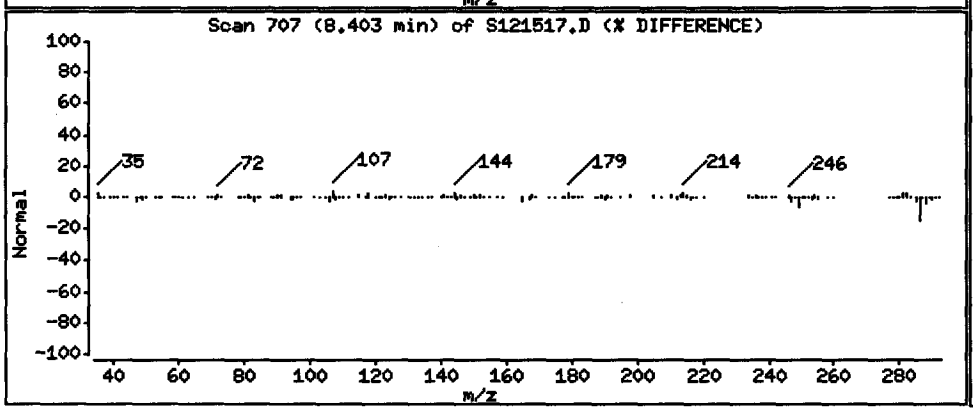
Column phase: Column diameter: 2.00

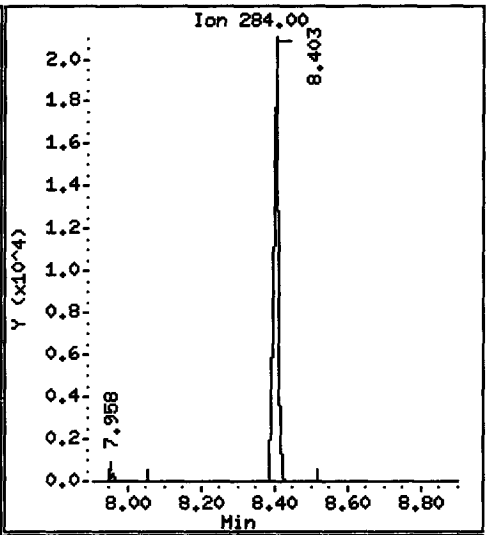
108 Hexachlorobenzene Concentration: 5.185 ug/L

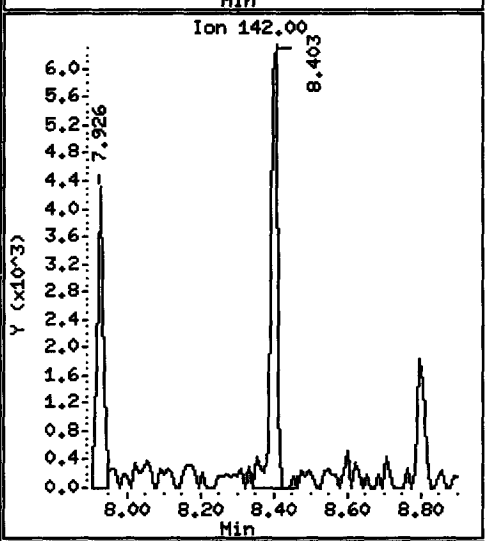


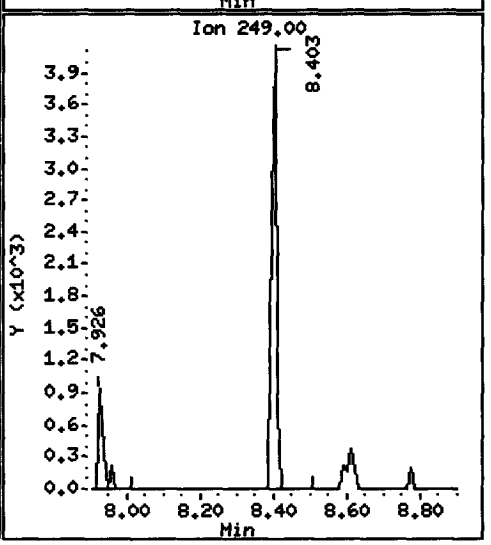












TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\121510A.B\S121518.D
Lab Smp Id: MA8DN1AA G0L110441- Client Smp ID: 0347431
Inj Date : 15-DEC-2010 23:47
Operator : KT Inst ID: sv5.i
Smp Info : MA8DN1AA G0L110441-9;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M
Comment : SOP SAC-MS-0005
Method : \\sv5\c\chem\sv5.i\121510A.B\8270f.m
Meth Date : 16-Dec-2010 11:40 sv5.i Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SACP307UM

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.470	3.470	(1.000)	101361	40.0000	(q)
* 2 Naphthalene-d8	136	4.869	4.869	(1.000)	418626	40.0000	
* 3 Acenaphthene-d10	164	6.962	6.962	(1.000)	227494	40.0000	
* 4 Phenanthrene-d10	188	8.807	8.807	(1.000)	371735	40.0000	
* 5 Chrysene-d12	240	13.066	13.066	(1.000)	344318	40.0000	
* 6 Perylene-d12	264	15.418	15.419	(1.000)	344030	40.0000	
$ 7 2-Fluorophenol	112	2.268	2.268	(0.654)	220048	61.5902	61.59
$ 8 Phenol-d5	99	3.159	3.159	(0.910)	322093	71.6921	71.69
$ 10 1,2-Dichlorobenzene-d4	152	3.667	3.667	(1.057)	73898	29.6026	29.60(qR)
$ 11 Nitrobenzene-d5	82	4.092	4.092	(0.840)	135479	38.2093	38.21
$ 12 2-Fluorobiphenyl	172	6.185	6.185	(0.888)	290258	39.6079	39.61
$ 13 2,4,6-Tribromophenol	330	7.926	7.926	(1.138)	88889	89.9190	89.92
$ 14 Terphenyl-d14	244	11.346	11.346	(0.868)	287242	42.3526	42.35
108 Hexachlorobenzene	284	8.403	8.403	(0.954)	938	0.46285	0.4628(aQ)

Low surr. due to matrix
12/16/10

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

QC Flag Legend

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

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA8DN1AA G0L110441- Client Smp ID: 0347431
Level: LOW Operator: KT
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\sv5\c\chem\sv5.i\121510A.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	61.59	61.59	41-105
$ 8 Phenol-d5	100.0	71.69	71.69	43-122
$ 10 1,2-Dichlorobenzen	50.00	29.60	59.21*	60-120
$ 11 Nitrobenzene-d5	50.00	38.21	76.42	46-118
$ 12 2-Fluorobiphenyl	50.00	39.61	79.22	58-105
$ 13 2,4,6-Tribromophen	100.0	89.92	89.92	61-118
$ 14 Terphenyl-d14	50.00	42.35	84.71	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\121510A.B\S121518.D
Lab Smp Id: MA8DN1AA G0L110441- Client Smp ID: 0347431
Inj Date : 15-DEC-2010 23:47
Operator : KT Inst ID: sv5.i
Smp Info : MA8DN1AA G0L110441-9;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M
Comment : SOP SAC-MS-0005
Method : \\SV5\C\chem\sv5.i\121510A.B\8270F.m
Meth Date : 15-Dec-2010 16:45 semivoa Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SV5

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 1	1,4-Dichlorobenzene-d4	152	3.470	3.470	(1.000)	101361	40.0000	(q)
* 2	Naphthalene-d8	136	4.869	4.869	(1.000)	418626	40.0000	
* 3	Acenaphthene-d10	164	6.962	6.962	(1.000)	227494	40.0000	
* 4	Phenanthrene-d10	188	8.807	8.807	(1.000)	371735	40.0000	
* 5	Chrysene-d12	240	13.066	13.066	(1.000)	344318	40.0000	
* 6	Perylene-d12	264	15.418	15.419	(1.000)	344030	40.0000	
$ 7	2-Fluorophenol	112	2.268	2.268	(0.654)	220048	61.5902	61.59
$ 8	Phenol-d5	99	3.159	3.159	(0.910)	322093	71.6921	71.69
$ 10	1,2-Dichlorobenzene-d4	152	3.667	3.667	(1.057)	73898	29.6026	29.60(qR)
$ 11	Nitrobenzene-d5	82	4.092	4.092	(0.840)	135479	38.2093	38.21
$ 12	2-Fluorobiphenyl	172	6.185	6.185	(0.888)	290258	39.6079	39.61
$ 13	2,4,6-Tribromophenol	330	7.926	7.926	(1.138)	88889	89.9190	89.92
$ 14	Terphenyl-d14	244	11.346	11.346	(0.868)	287242	42.3526	42.35
108	Hexachlorobenzene	284	8.403	8.403	(0.954)	938	0.46285	0.4628(aQ)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S121518.D
Lab Smp Id: MA8DN1AA G0L110441-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\121510A.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M

Calibration Date: 15-DEC-2010
Calibration Time: 16:26
Client Smp ID: 0347431
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	101361	-17.34
2 Naphthalene-d8	530514	265257	1061028	418626	-21.09
3 Acenaphthene-d10	282538	141269	565076	227494	-19.48
4 Phenanthrene-d10	462722	231361	925444	371735	-19.66
5 Chrysene-d12	435850	217925	871700	344318	-21.00
6 Perylene-d12	422284	211142	844568	344030	-18.53

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.47	2.97	3.97	3.47	-0.00
2 Naphthalene-d8	4.87	4.37	5.37	4.87	-0.00
3 Acenaphthene-d10	6.96	6.46	7.46	6.96	-0.00
4 Phenanthrene-d10	8.81	8.31	9.31	8.81	-0.00
5 Chrysene-d12	13.07	12.57	13.57	13.07	-0.00
6 Perylene-d12	15.42	14.92	15.92	15.42	-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 West Sacramento

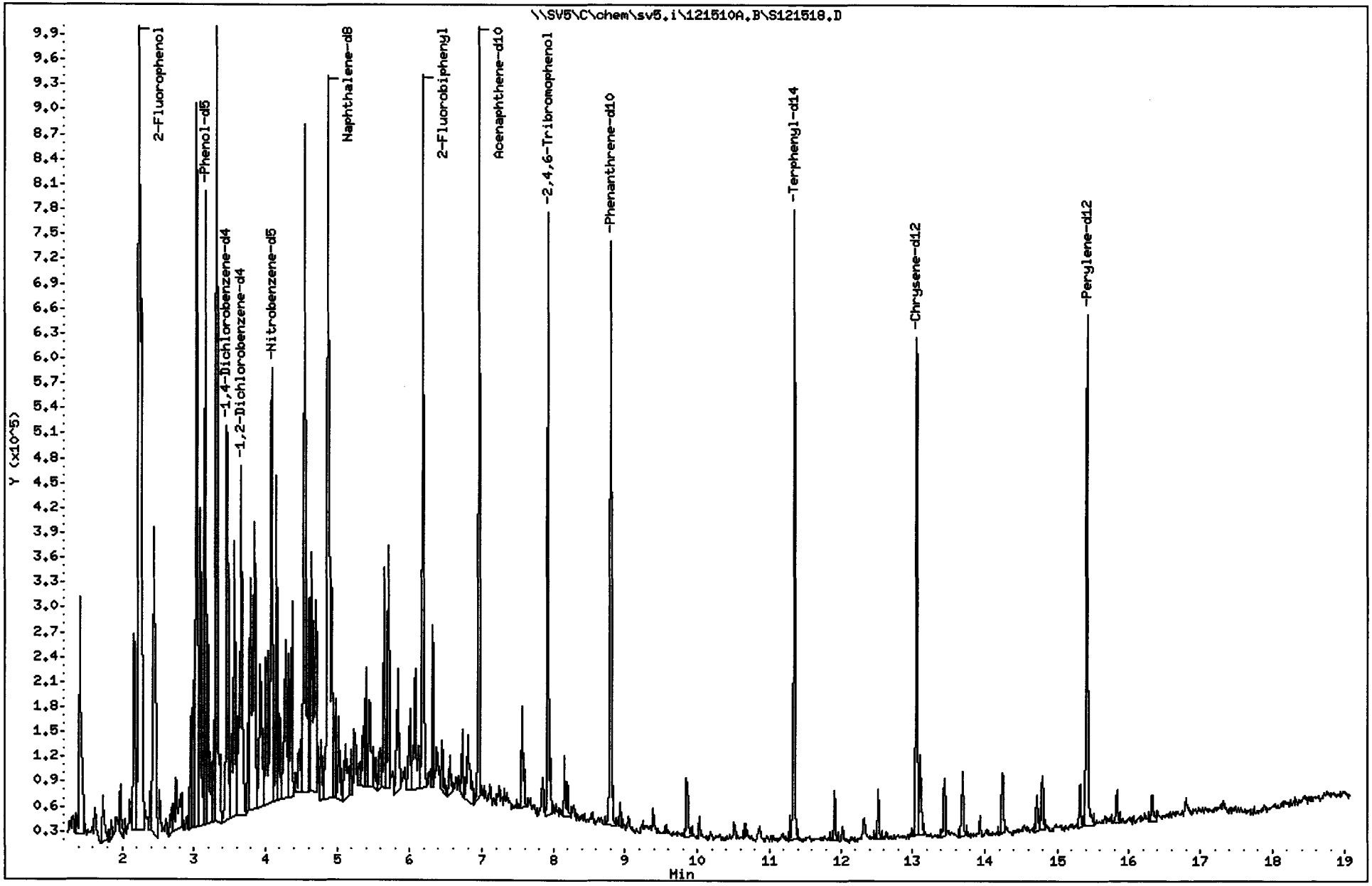
RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA8DN1AA G0L110441- Client Smp ID: 0347431
Level: LOW Operator: KT
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\SV5\C\chem\sv5.i\121510A.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	61.59	61.59	41-105
$ 8 Phenol-d5	100.0	71.69	71.69	43-122
$ 10 1,2-Dichlorobenzen	50.00	29.60	59.21*	60-120
$ 11 Nitrobenzene-d5	50.00	38.21	76.42	46-118
$ 12 2-Fluorobiphenyl	50.00	39.61	79.22	58-105
$ 13 2,4,6-Tribromophen	100.0	89.92	89.92	61-118
$ 14 Terphenyl-d14	50.00	42.35	84.71	69-110

Data File: \\SV5\C\chem\sv5.i\121510A.B\S121518.D
Date : 15-DEC-2010 23:47
Client ID: 0347431
Sample Info: MA8DN1AA GOL110441-9;0;;;1000;;1000;5
Volume Injected (uL): 1.0
Column phase:

Instrument: sv5.i
Operator: KT
Column diameter: 2.00



Data File: \\SV5\C\chem\sv5.i\121510A.B\S121518.D

Date : 15-DEC-2010 23:47

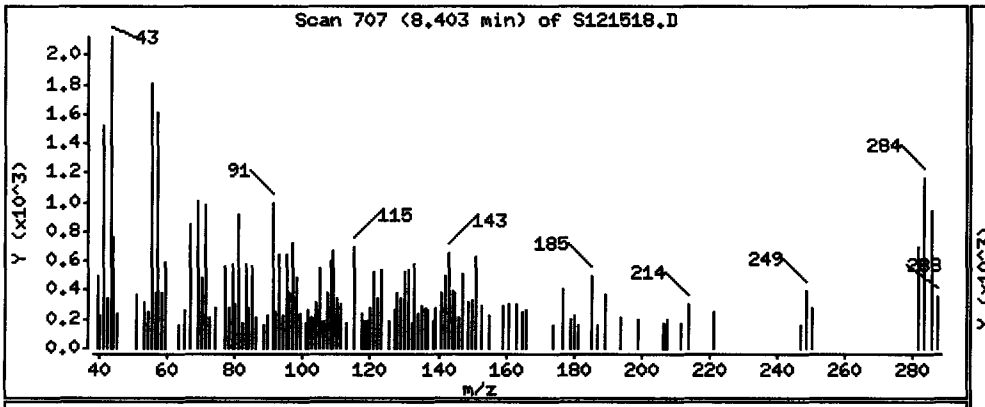
Client ID: 0347431 Instrument: sv5.i

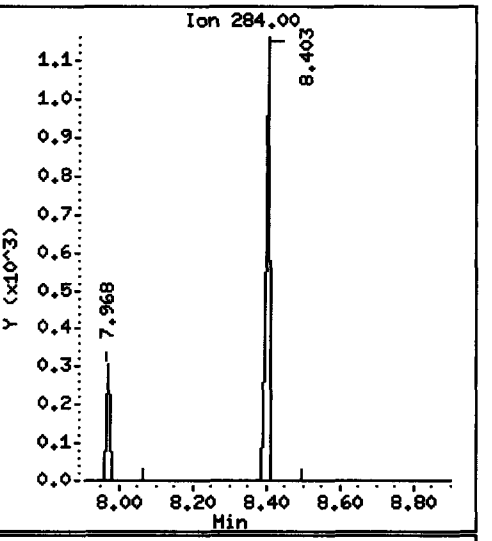
Sample Info: MA8DN1AA G0L110441-9;0;;;1000;;1000;5

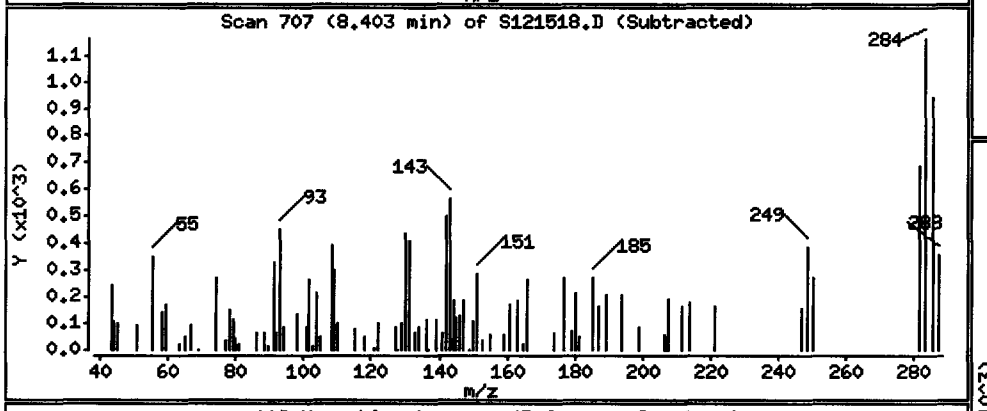
Volume Injected (uL): 1.0 Operator: KT

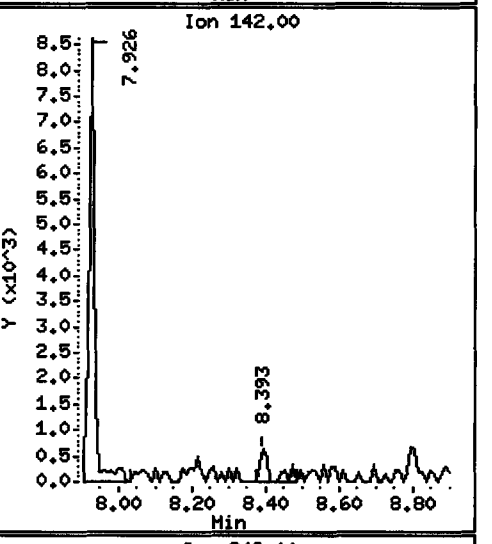
Column phase: Column diameter: 2.00

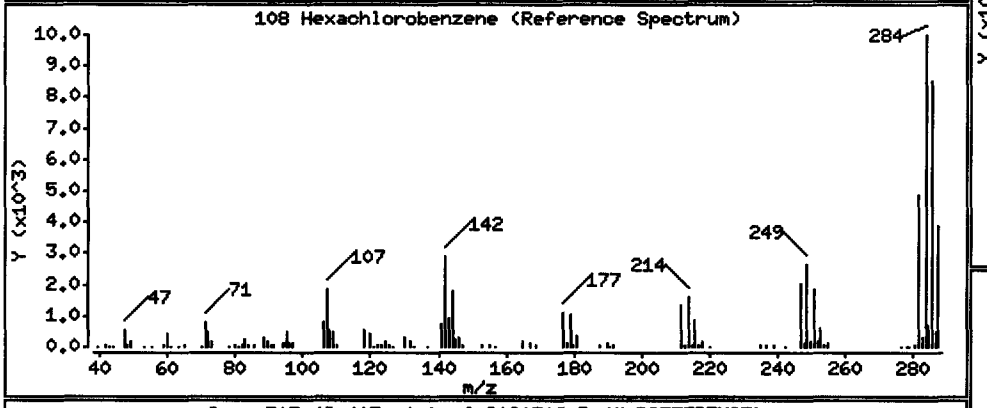
108 Hexachlorobenzene Concentration: 0.4628 ug/L

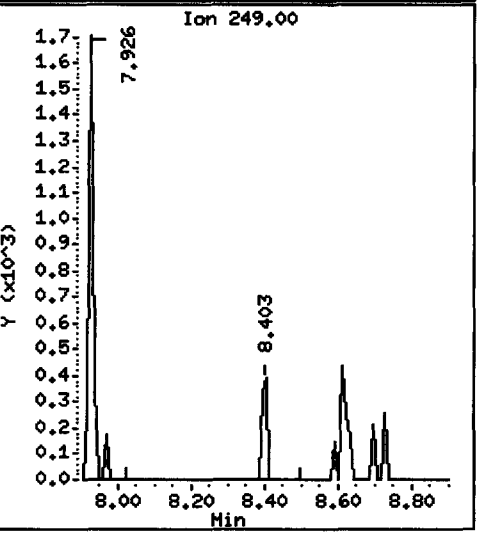


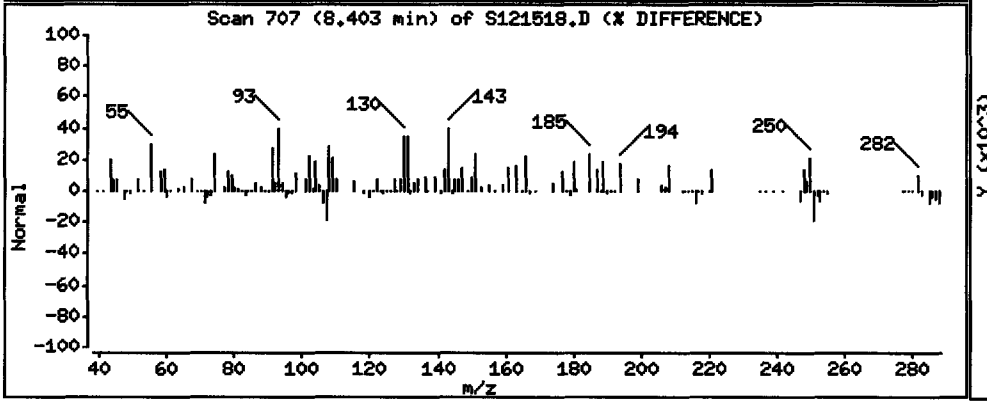












TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\121510A.B\S121519.D
Lab Smp Id: MA8DV1AA G0L110441- Client Smp ID: 0347431
Inj Date : 16-DEC-2010 00:11
Operator : KT Inst ID: sv5.i
Smp Info : MA8DV1AA G0L110441-12;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M
Comment : SOP SAC-MS-0005
Method : \\sv5\c\chem\sv5.i\121510A.B\8270f.m
Meth Date : 16-Dec-2010 11:40 sv5.i Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SACP307UM

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.470	3.470	(1.000)	142072	40.0000	
* 2 Naphthalene-d8	136	4.869	4.869	(1.000)	597877	40.0000	
* 3 Acenaphthene-d10	164	6.962	6.962	(1.000)	334655	40.0000	
* 4 Phenanthrene-d10	188	8.807	8.807	(1.000)	541649	40.0000	
* 5 Chrysene-d12	240	13.066	13.066	(1.000)	501083	40.0000	
* 6 Perylene-d12	264	15.418	15.419	(1.000)	481516	40.0000	
$ 7 2-Fluorophenol	112	2.268	2.268	(0.654)	325861	65.0713	65.07
$ 8 Phenol-d5	99	3.159	3.159	(0.910)	464301	73.7313	73.73
$ 10 1,2-Dichlorobenzene-d4	152	3.667	3.667	(1.057)	105312	30.0980	30.10(q)
$ 11 Nitrobenzene-d5	82	4.092	4.092	(0.840)	190507	37.6203	37.62
$ 12 2-Fluorobiphenyl	172	6.185	6.185	(0.888)	340402	31.5764	31.58
$ 13 2,4,6-Tribromophenol	330	7.926	7.926	(1.138)	80312	55.2276	55.23(R)
$ 14 Terphenyl-d14	244	11.346	11.346	(0.868)	301835	30.5810	30.58(R)
108 Hexachlorobenzene	284	8.403	8.403	(0.954)	12411	4.20302	4.203

Low surr. due to matrix
12/16/10

QC Flag Legend

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

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA8DV1AA G0L110441- Client Smp ID: 0347431
Level: LOW Operator: KT
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\sv5\c\chem\sv5.i\121510A.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	65.07	65.07	41-105
$ 8 Phenol-d5	100.0	73.73	73.73	43-122
$ 10 1,2-Dichlorobenzen	50.00	30.10	60.20	60-120
$ 11 Nitrobenzene-d5	50.00	37.62	75.24	46-118
$ 12 2-Fluorobiphenyl	50.00	31.58	63.15	58-105
$ 13 2,4,6-Tribromophen	100.0	55.23	55.23*	61-118
$ 14 Terphenyl-d14	50.00	30.58	61.16*	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\121510A.B\S121519.D
Lab Smp Id: MA8DV1AA G0L110441- Client Smp ID: 0347431
Inj Date : 16-DEC-2010 00:11
Operator : KT Inst ID: sv5.i
Smp Info : MA8DV1AA G0L110441-12;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M
Comment : SOP SAC-MS-0005
Method : \\SV5\C\chem\sv5.i\121510A.B\8270F.m
Meth Date : 15-Dec-2010 16:45 semivoa Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: S11JZHCB.SUB
Target Version: 4.14
Processing Host: SV5

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
*	1 1,4-Dichlorobenzene-d4	152	3.470	3.470	(1.000)	142072	40.0000	
*	2 Naphthalene-d8	136	4.869	4.869	(1.000)	597877	40.0000	
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*	4 Phenanthrene-d10	188	8.807	8.807	(1.000)	541649	40.0000	
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*	6 Perylene-d12	264	15.418	15.419	(1.000)	481516	40.0000	
$	7 2-Fluorophenol	112	2.268	2.268	(0.654)	325861	65.0713	65.07
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$	10 1,2-Dichlorobenzene-d4	152	3.667	3.667	(1.057)	105312	30.0980	30.10(q)
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$	13 2,4,6-Tribromophenol	330	7.926	7.926	(1.138)	80312	55.2276	55.23(R)
$	14 Terphenyl-d14	244	11.346	11.346	(0.868)	301835	30.5810	30.58(R)
	108 Hexachlorobenzene	284	8.403	8.403	(0.954)	12411	4.20302	4.203

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S121519.D
Lab Smp Id: MA8DV1AA G0L110441-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\121510A.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M

Calibration Date: 15-DEC-2010
Calibration Time: 16:26
Client Smp ID: 0347431
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	142072	15.86
2 Naphthalene-d8	530514	265257	1061028	597877	12.70
3 Acenaphthene-d10	282538	141269	565076	334655	18.45
4 Phenanthrene-d10	462722	231361	925444	541649	17.06
5 Chrysene-d12	435850	217925	871700	501083	14.97
6 Perylene-d12	422284	211142	844568	481516	14.03

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.47	2.97	3.97	3.47	-0.01
2 Naphthalene-d8	4.87	4.37	5.37	4.87	-0.00
3 Acenaphthene-d10	6.96	6.46	7.46	6.96	-0.00
4 Phenanthrene-d10	8.81	8.31	9.31	8.81	-0.00
5 Chrysene-d12	13.07	12.57	13.57	13.07	-0.00
6 Perylene-d12	15.42	14.92	15.92	15.42	-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.

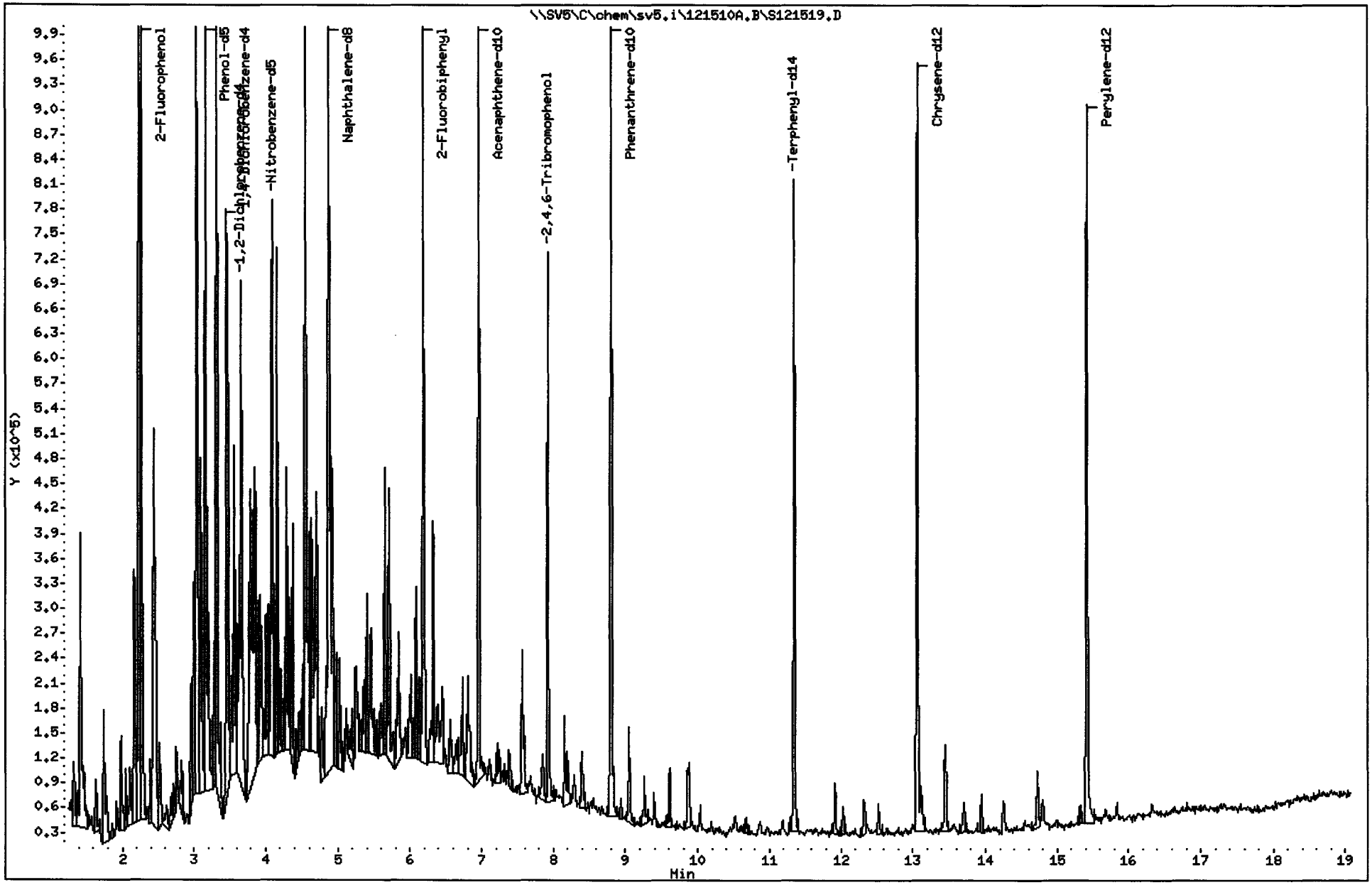
TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MA8DV1AA G0L110441- Client Smp ID: 0347431
Level: LOW Operator: KT
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\SV5\C\chem\sv5.i\121510A.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0347431;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	65.07	65.07	41-105
$ 8 Phenol-d5	100.0	73.73	73.73	43-122
$ 10 1,2-Dichlorobenzen	50.00	30.10	60.20	60-120
$ 11 Nitrobenzene-d5	50.00	37.62	75.24	46-118
$ 12 2-Fluorobiphenyl	50.00	31.58	63.15	58-105
$ 13 2,4,6-Tribromophen	100.0	55.23	55.23*	61-118
$ 14 Terphenyl-d14	50.00	30.58	61.16*	69-110

Data File: \\SV5\C\chem\sv5.i\121510A.B\S121519.D
Date : 16-DEC-2010 00:11
Client ID: 0347431
Instrument: sv5.i
Sample Info: MA8DV1AA GOL110441-12;0;;;1000;;1000;5
Volume Injected (uL): 1.0
Operator: KT
Column phase:
Column diameter: 2.00



Data File: \\SV5\C\chem\sv5.i\121510A.B\S121519.D

Date : 16-DEC-2010 00:11

Client ID: 0347431

Instrument: sv5.i

Sample Info: MA8DV1AA G0L110441-12;0;;;1000;;1000;5

Volume Injected (uL): 1.0

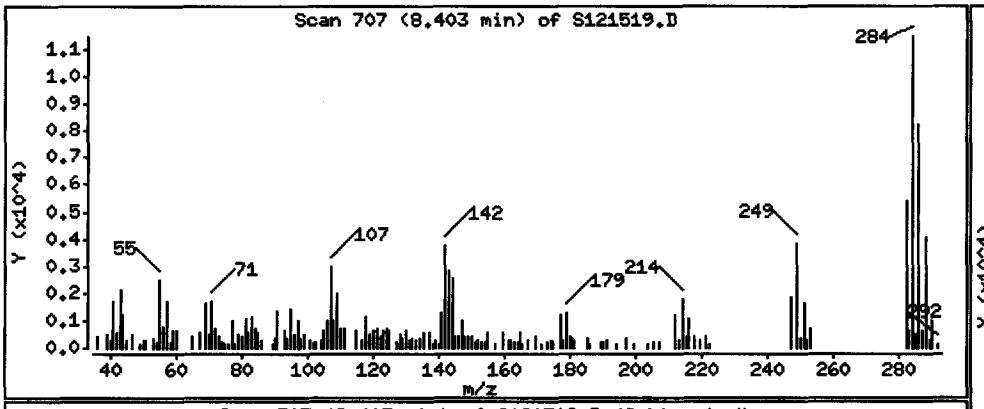
Operator: KT

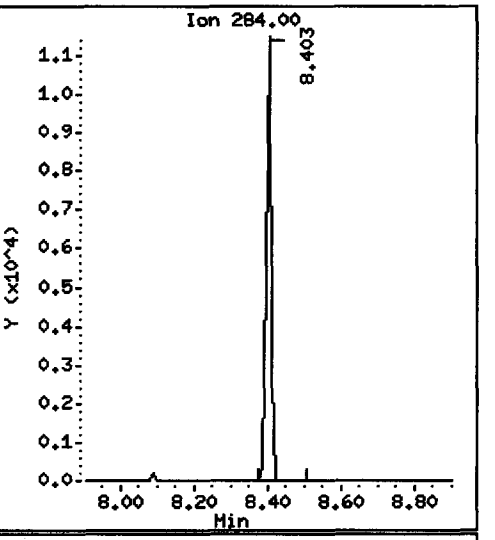
Column phase:

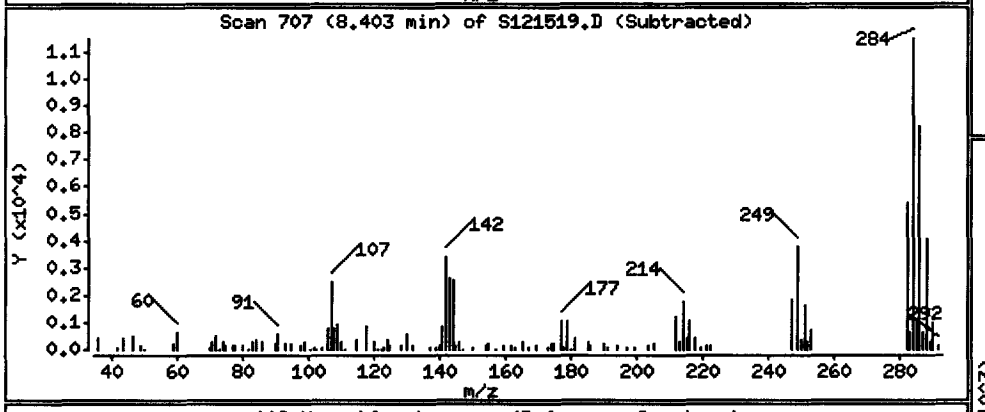
Column diameter: 2.00

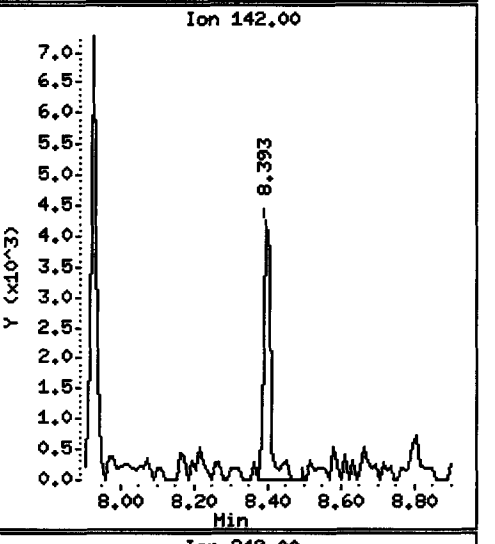
108 Hexachlorobenzene

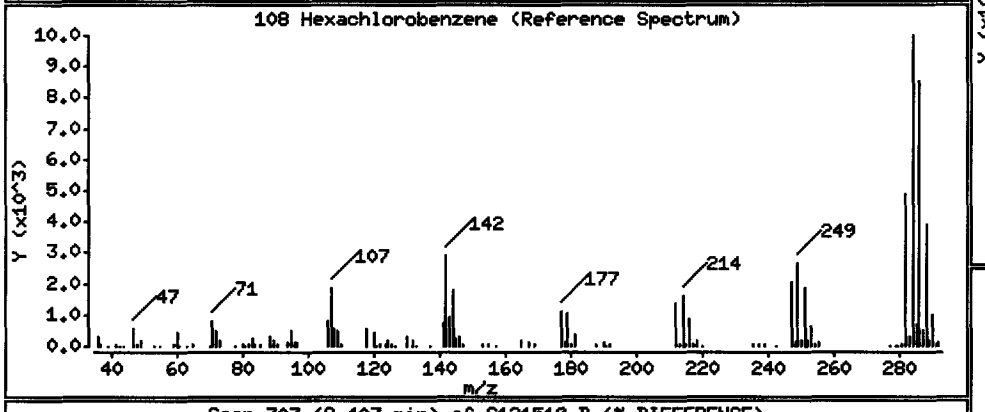
Concentration: 4.203 ug/L

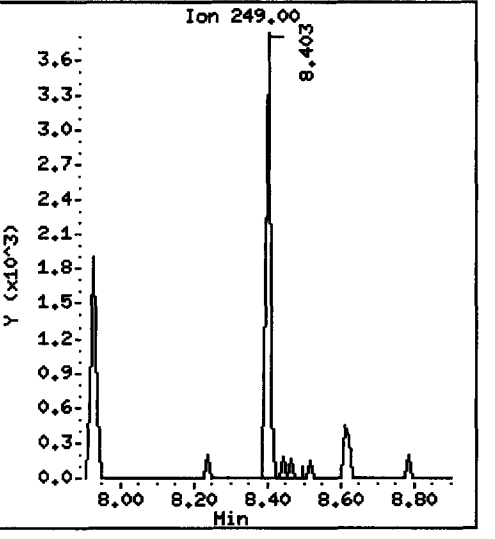


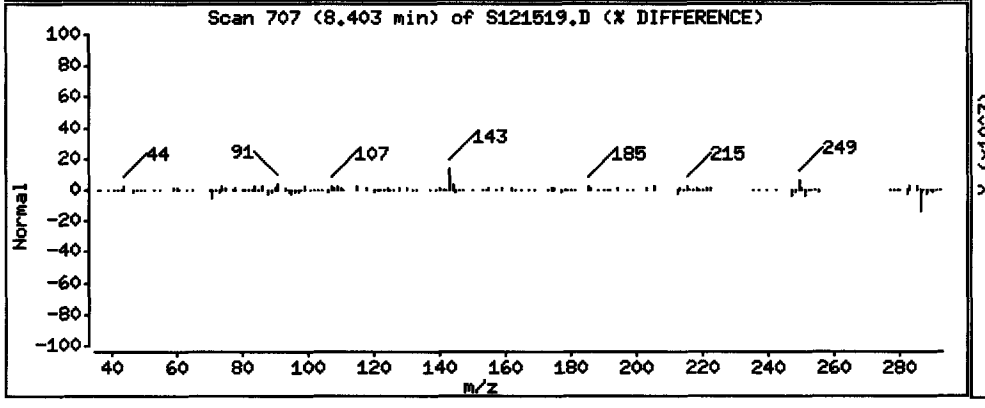












Initial Calibration

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

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		

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	0.88268	0.91048	0.91970	0.93146	0.93916					
	0.93833						AVRG		0.92154		2.16207
16 Pyridine	1.67117	1.37423	1.59449	1.56610	1.52299	1.53256					
	1.52623						AVRG		1.54111		5.85560
23 Aniline	2.20796	2.15935	2.19988	2.26058	2.29749	2.33400					
	2.33783						AVRG		2.25673		3.09753
24 Phenol	2.04111	1.96212	2.02834	2.03430	2.06683	2.06089					
	2.06740						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

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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

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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										
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

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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										
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

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

TestAmerica West Sacramento

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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										
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

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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										
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

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

TestAmerica West Sacramento

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Start Cal Date : 17-AUG-2010 17:32
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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	160.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
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	0.67351	0.70756	0.73630	0.79414						
	0.79926							AVRG		0.71564		8.88815

TestAmerica West Sacramento

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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	160.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
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

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										
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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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	Coefficients m1	Coefficients m2	%RSD or R^2
	160.0000 Level 7										
$ 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

Report Date : 03-Oct-2010 11:10

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										
$ 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

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

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
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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

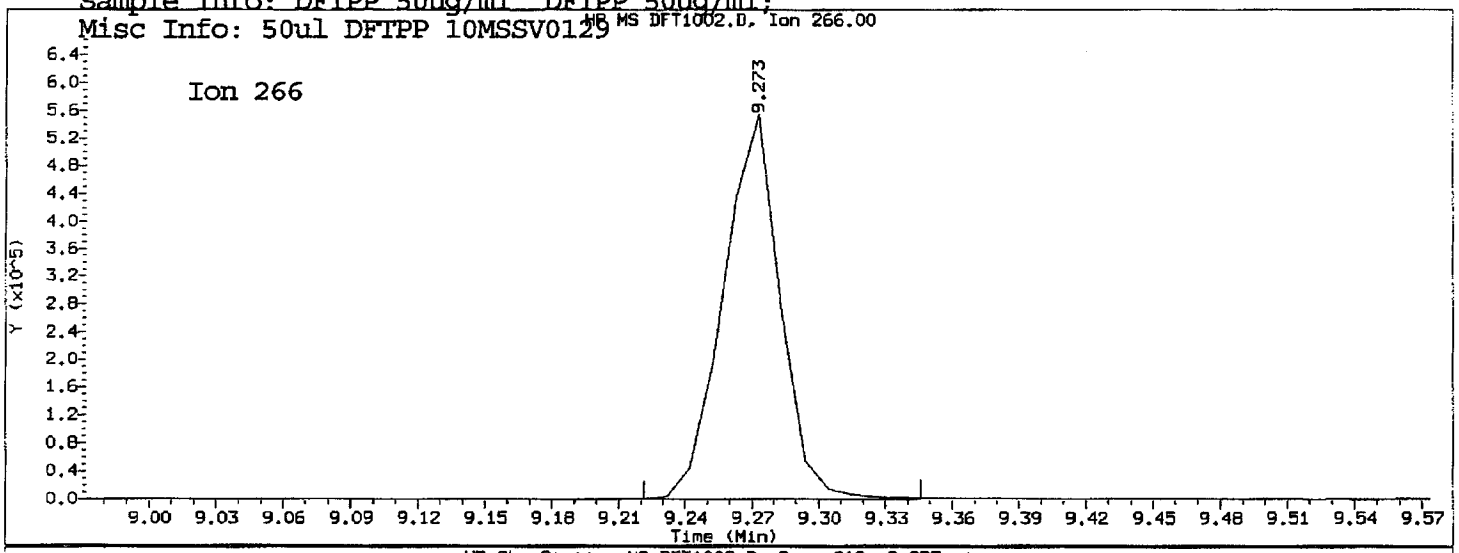
Sample //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D

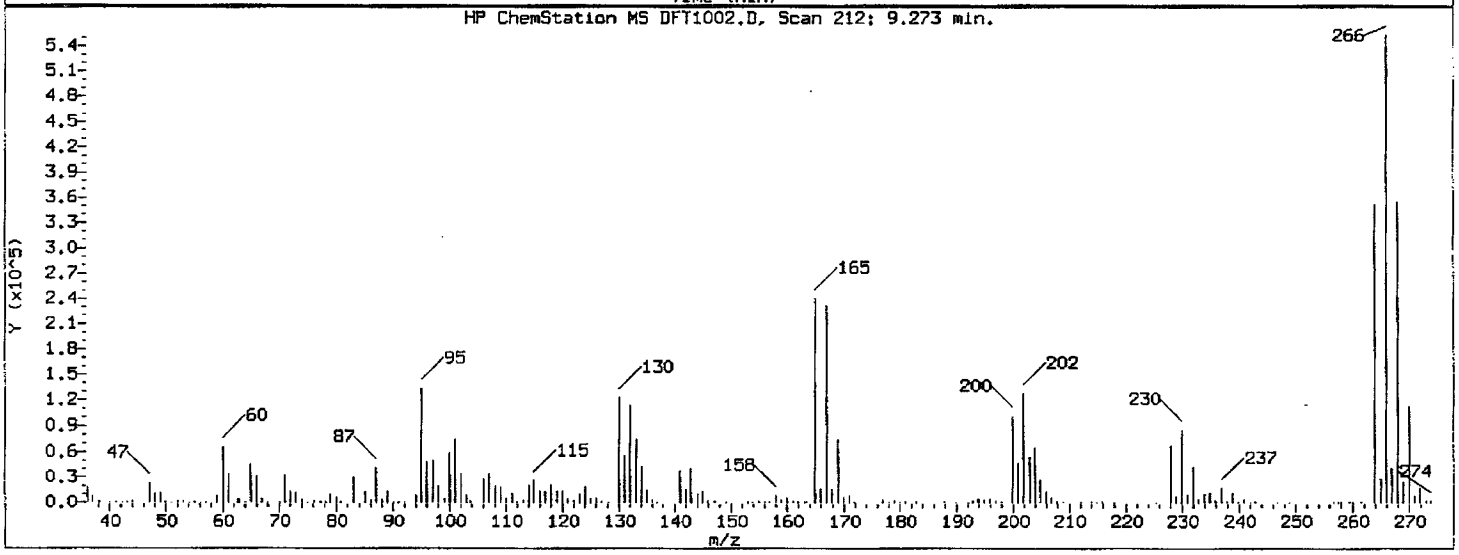
****
*** PASSED ***
****

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

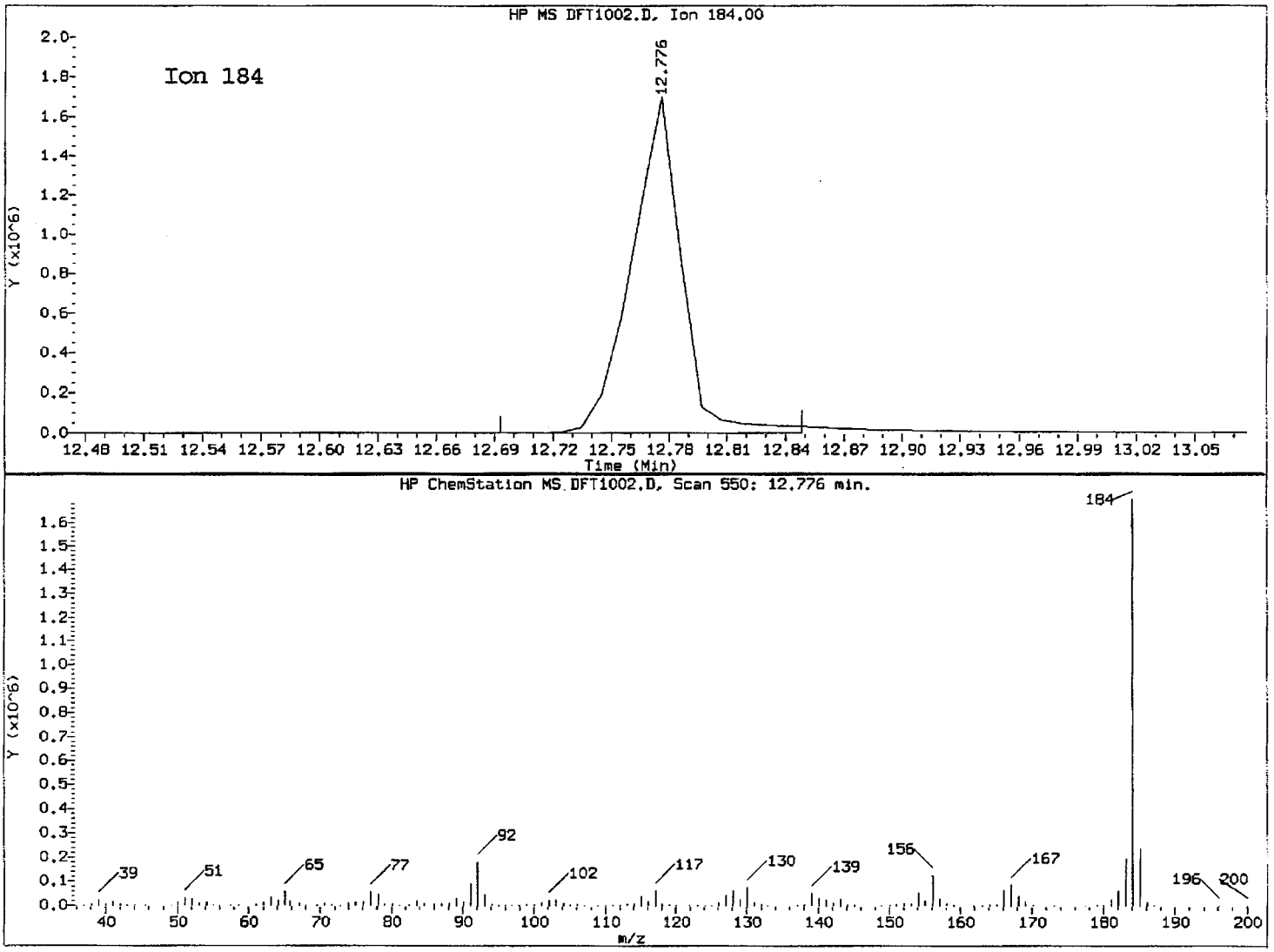
Time1 = 9.243001 Time2 = 9.273333 Time3 = 9.294038
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

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

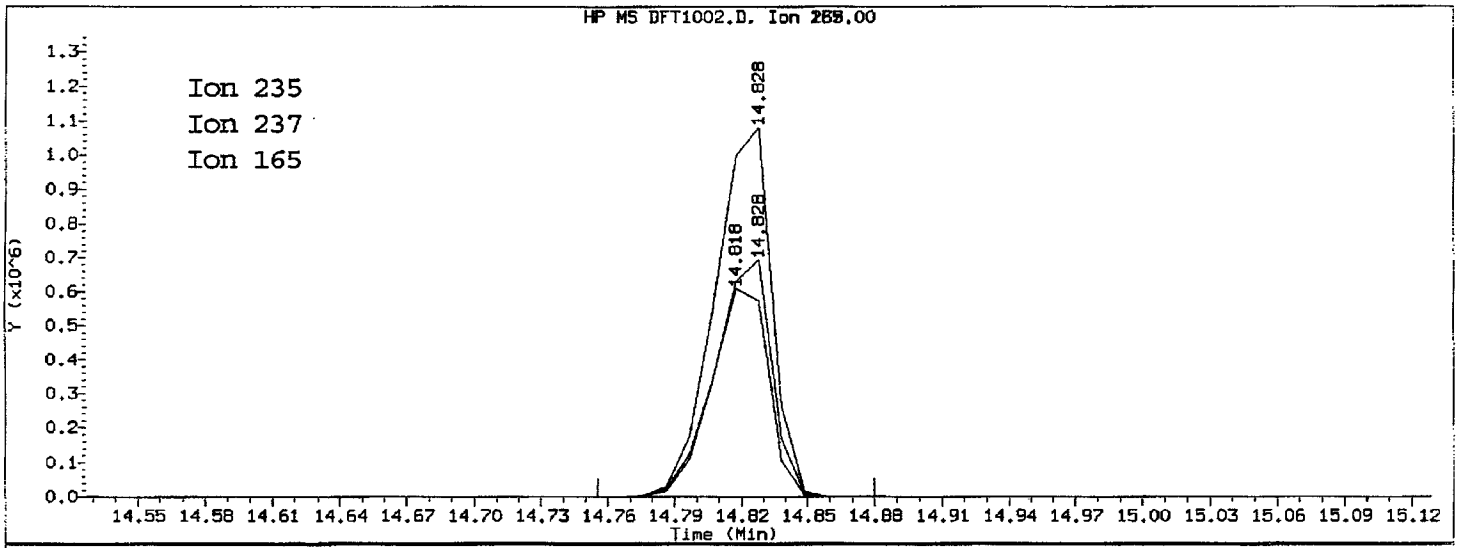
Time1 = 12.74377 Time2 = 12.77603 Time3 = 12.79618
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

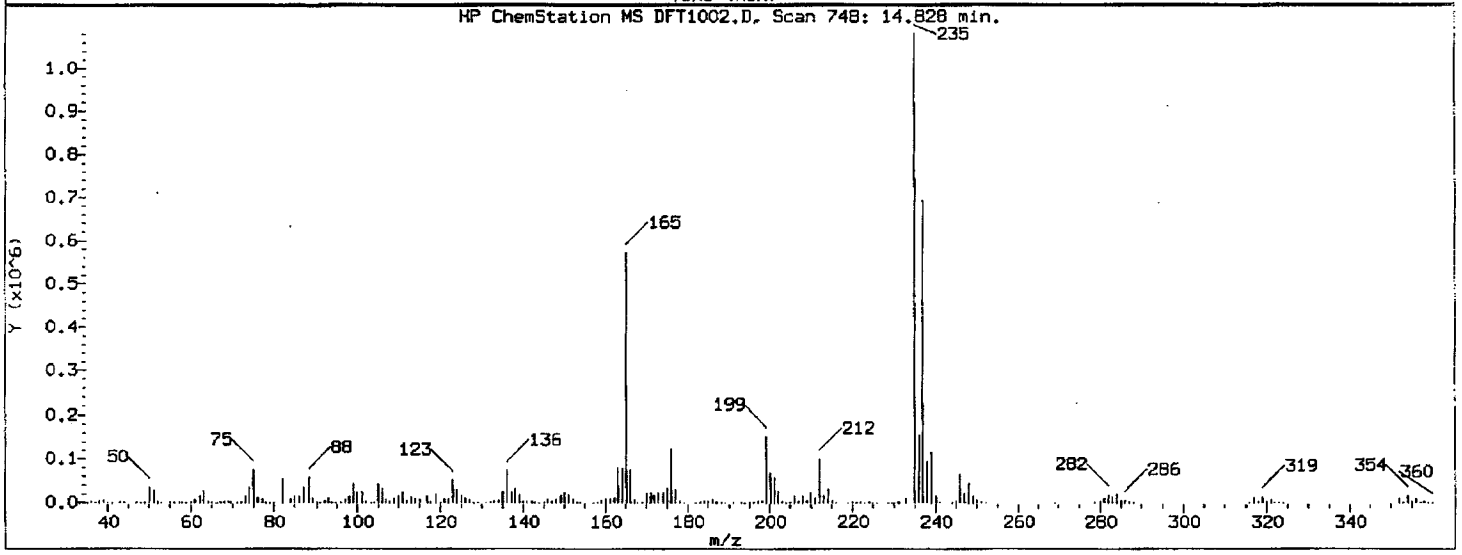
Tailing factor for Benzidine OK

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



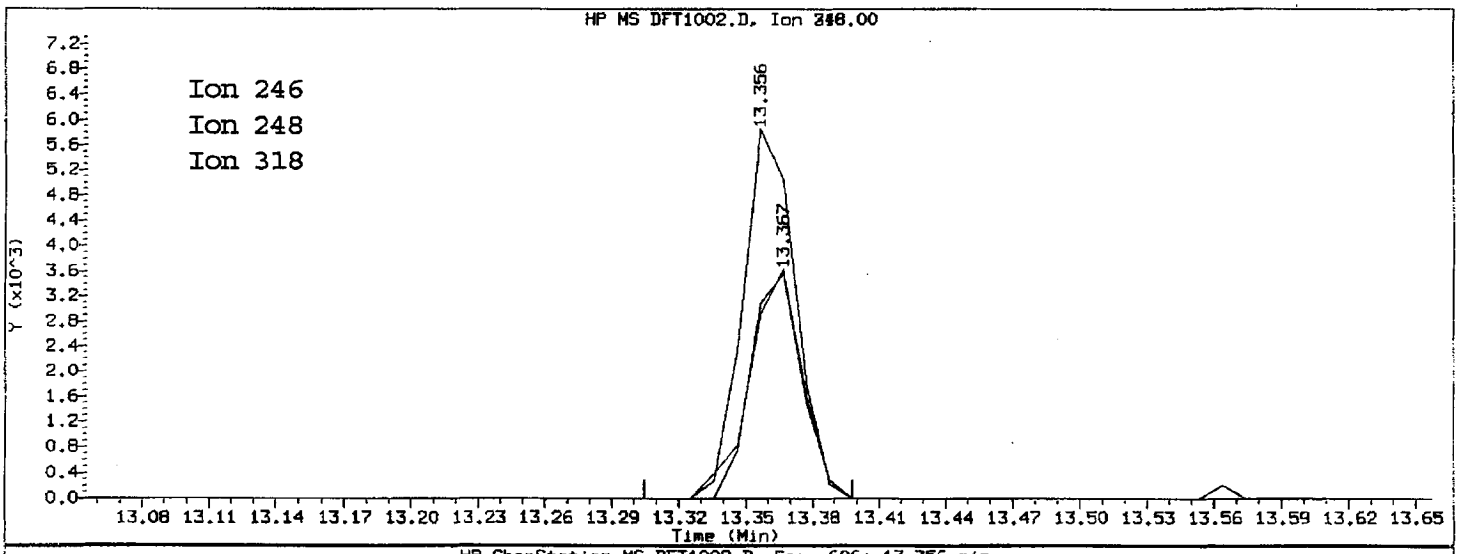


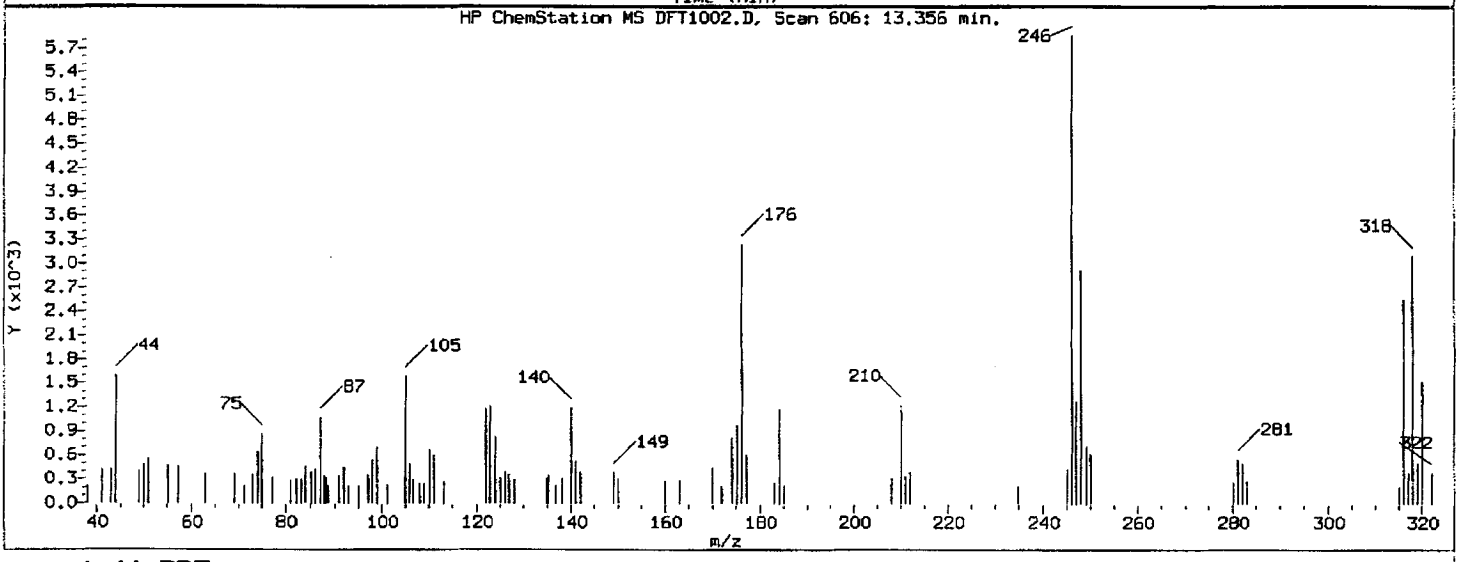
4,4'-DDT
========
Exp. RT = 14.942
Found RT = 14.828

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



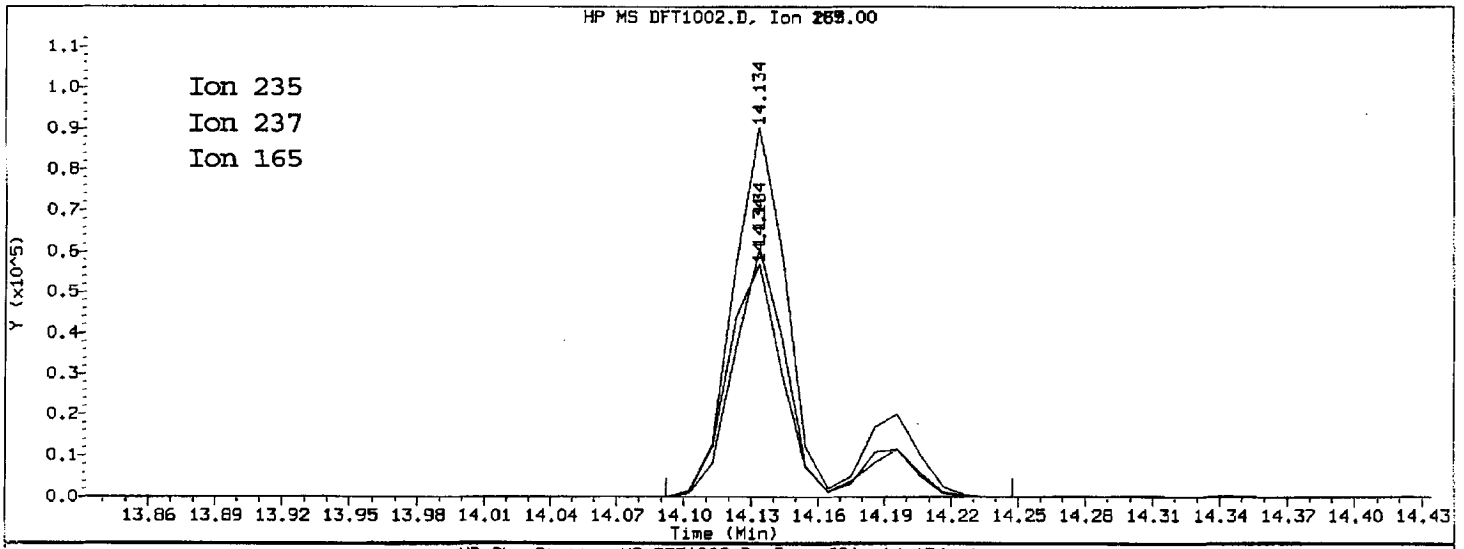


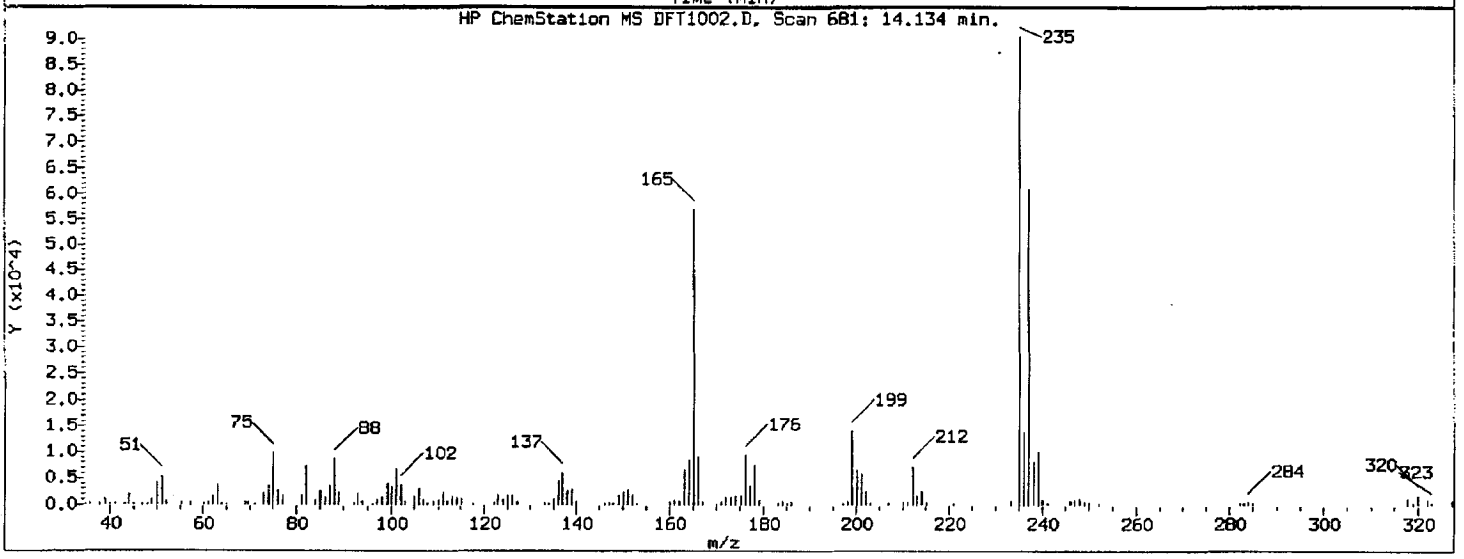
4,4'-DDE
========
 Exp. RT = 13.470
Found RT = 13.356

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

Report Date: 10/03/2010 11:04

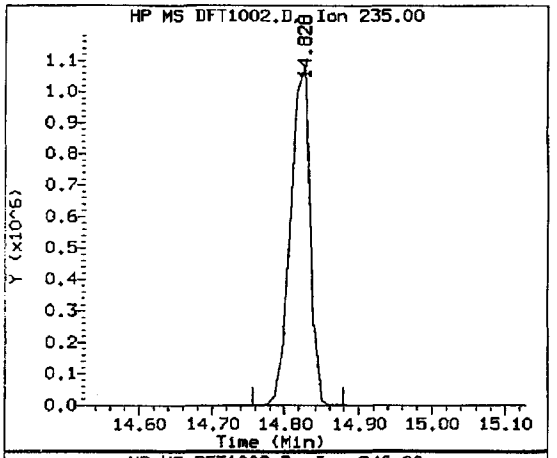
Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 02-OCT-2010 12:06 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



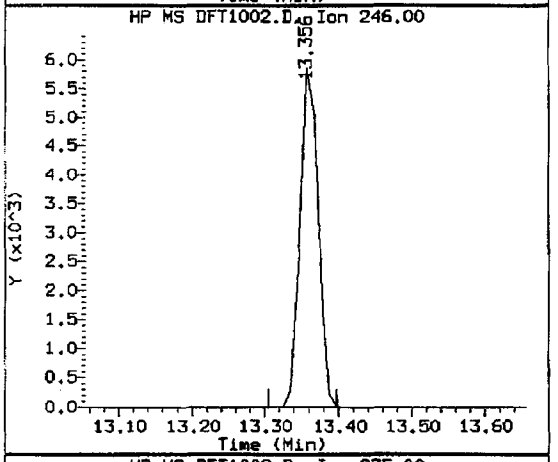


4,4'-DDD
========
Exp. RT = 14.248
Found RT = 14.134

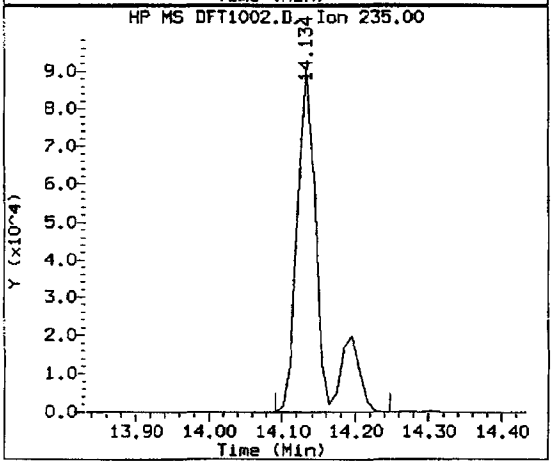
Mass	Area	Ratio
235	180277	100.00
237	115795	64.23
165	113090	62.73



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\Datafiles10\10OCT10\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\Datafiles10\10OCT10\100210.B\DFTPP.M
Meth Date : 08-Dec-2010 19:12 onishim 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

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
0.000	10.092	(0.000)	198	746688			0.00- 100.00	100.00
0.000	10.092	(0.000)	51	320640			30.00- 60.00	42.94
0.000	10.092	(0.000)	68	4826			0.00- 2.00	1.62
0.000	10.092	(0.000)	69	298048			0.00- 0.00	39.92
0.000	10.092	(0.000)	70	1913			0.00- 2.00	0.64
0.000	10.092	(0.000)	127	406528			40.00- 60.00	54.44
0.000	10.092	(0.000)	197	0	0.0	0.0	0.00- 1.00	0.00
0.000	10.092	(0.000)	199	49104			5.00- 9.00	6.58
0.000	10.092	(0.000)	275	170816			10.00- 30.00	22.88
0.000	10.092	(0.000)	365	20496			1.00- 0.00	2.74
0.000	10.092	(0.000)	441	100984			0.01- 99.99	74.22
0.000	10.092	(0.000)	442	702528			40.00- 0.00	94.09
0.000	10.092	(0.000)	443	136064			17.00- 23.00	19.37

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

Date : 02-OCT-2010 12:06

Client ID:

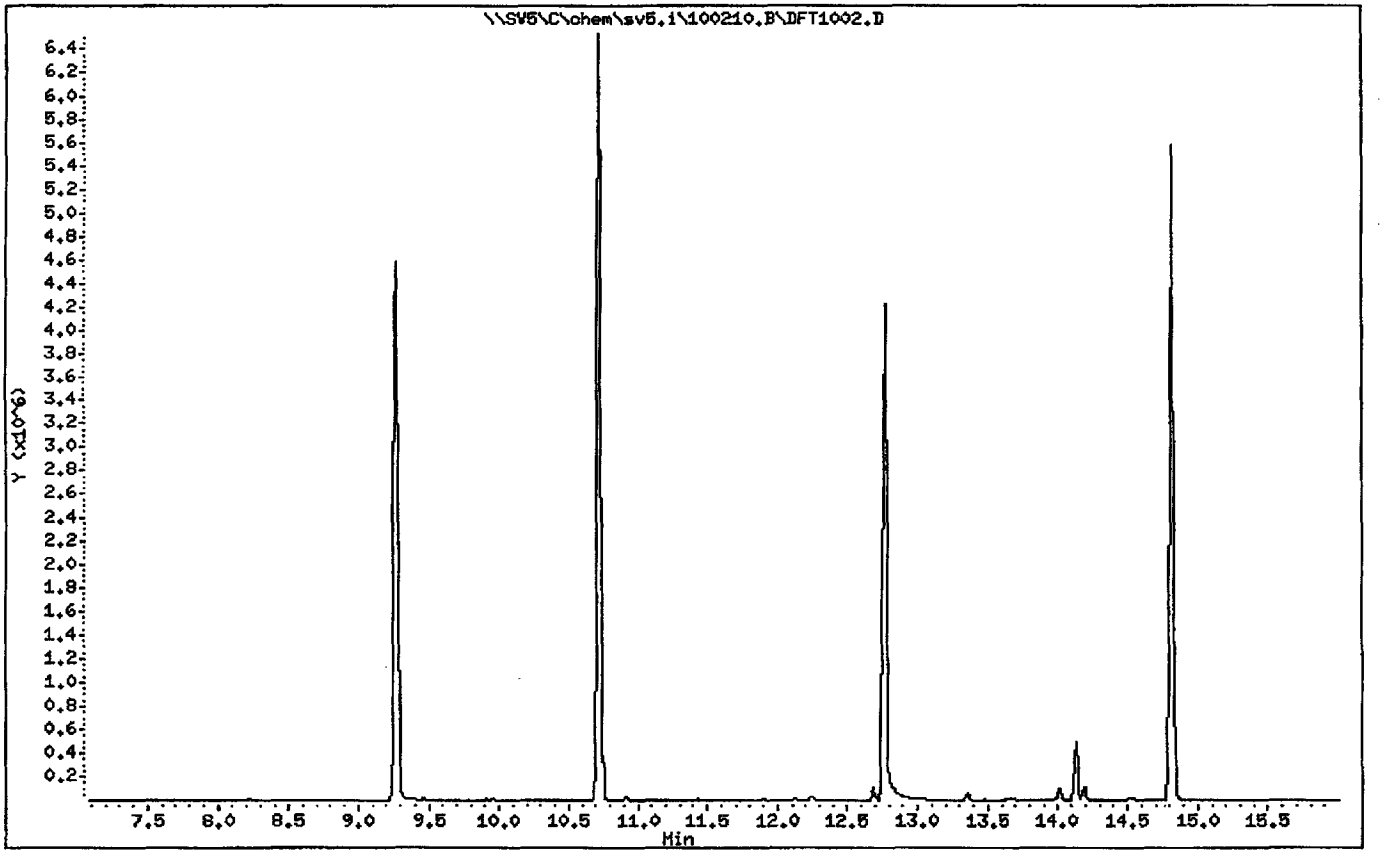
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00



Data File: \\Sv5\C\chem\sv5.i\Datafiles10\10OCT10\100210.B\DFT1002.D

Date : 02-OCT-2010 12:06

Client ID:

Instrument: sv5.i

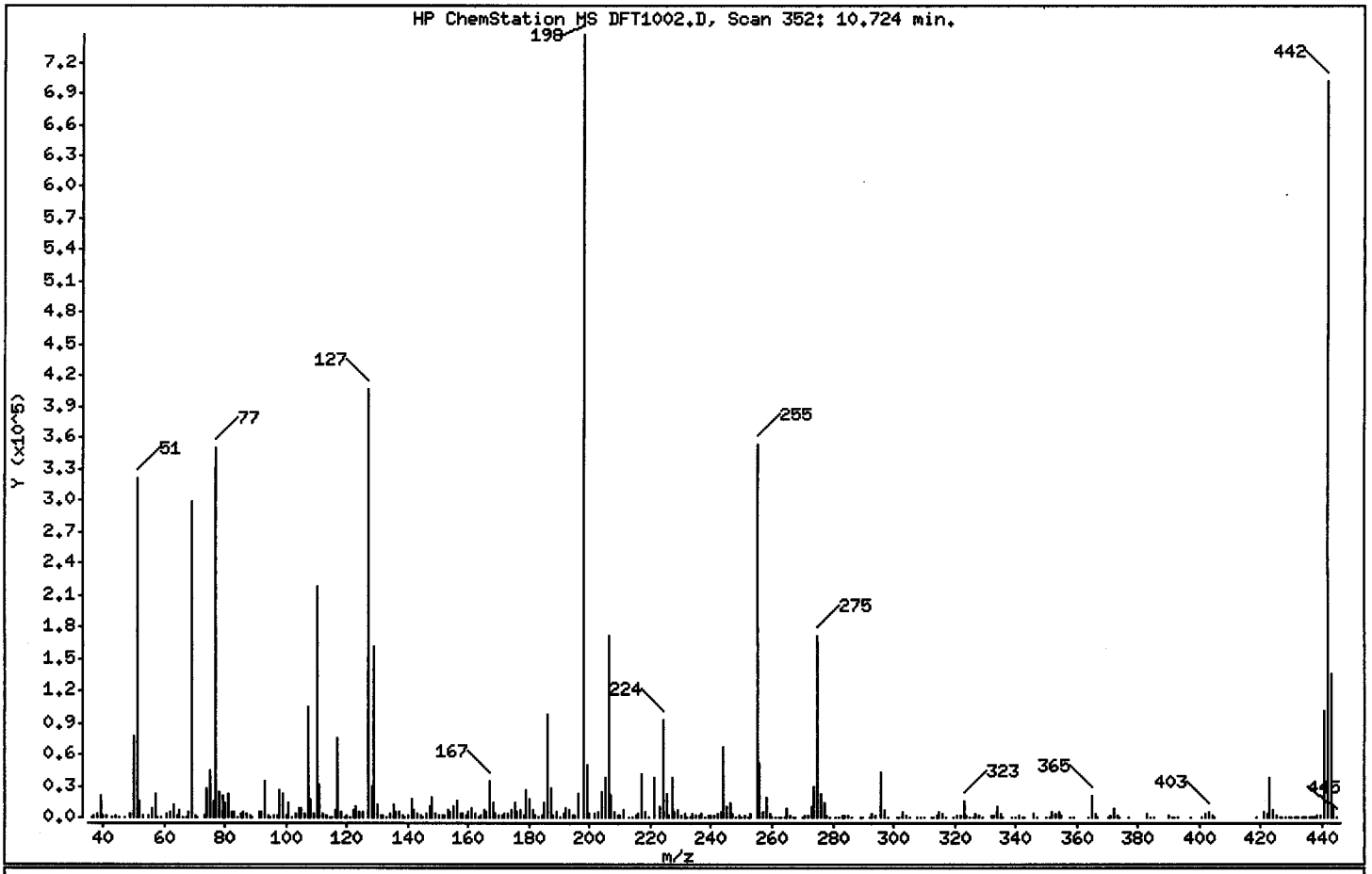
Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% 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	40.00 - 60.00% 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 1.00% of mass 198	2.74
441	Present, but less than mass 443	13.52
442	Greater than 40.00% of mass 198	94.09
443	17.00 - 23.00% of mass 442	18.22 (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: 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	324.80	382
41.10	949	135.10	11378	226.10	1736	326.00	507
43.10	352	136.00	4896	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

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	19504	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	289
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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (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

10-7-10

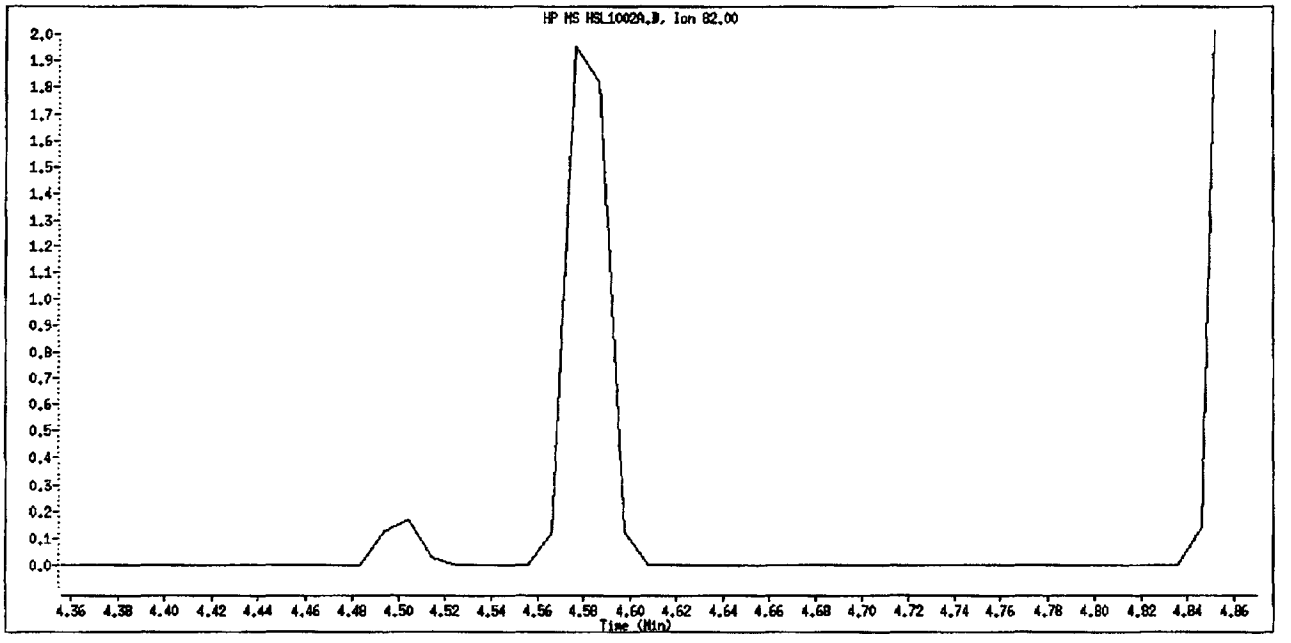
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
47	Bis(2-chloroethoxy)methane	93	5.126	5.126	(0.954)	31152	5.00000	5.288
49	2,4-Dichlorophenol	162	5.229	5.229	(0.973)	19256	5.00000	4.708
50	Benzoic Acid	122	5.084	5.115	(0.946)	12679	5.00000	4.333
51	1,2,4-Trichlorobenzene	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

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

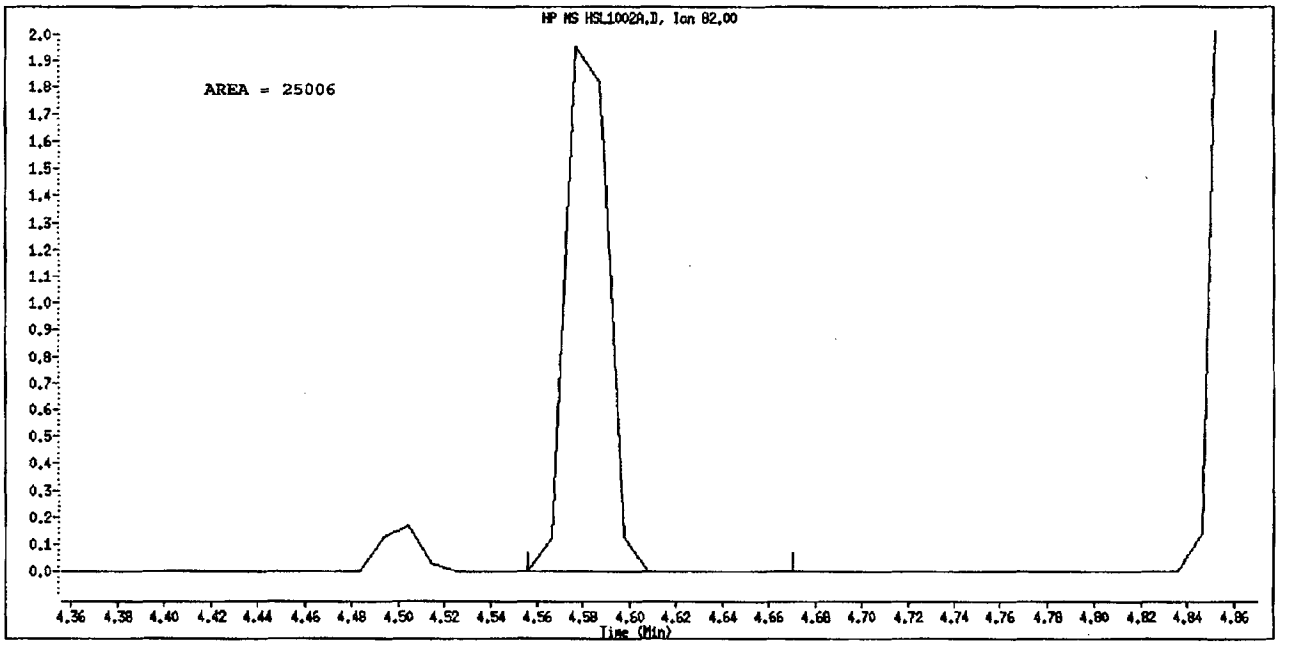
QC Flag Legend

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



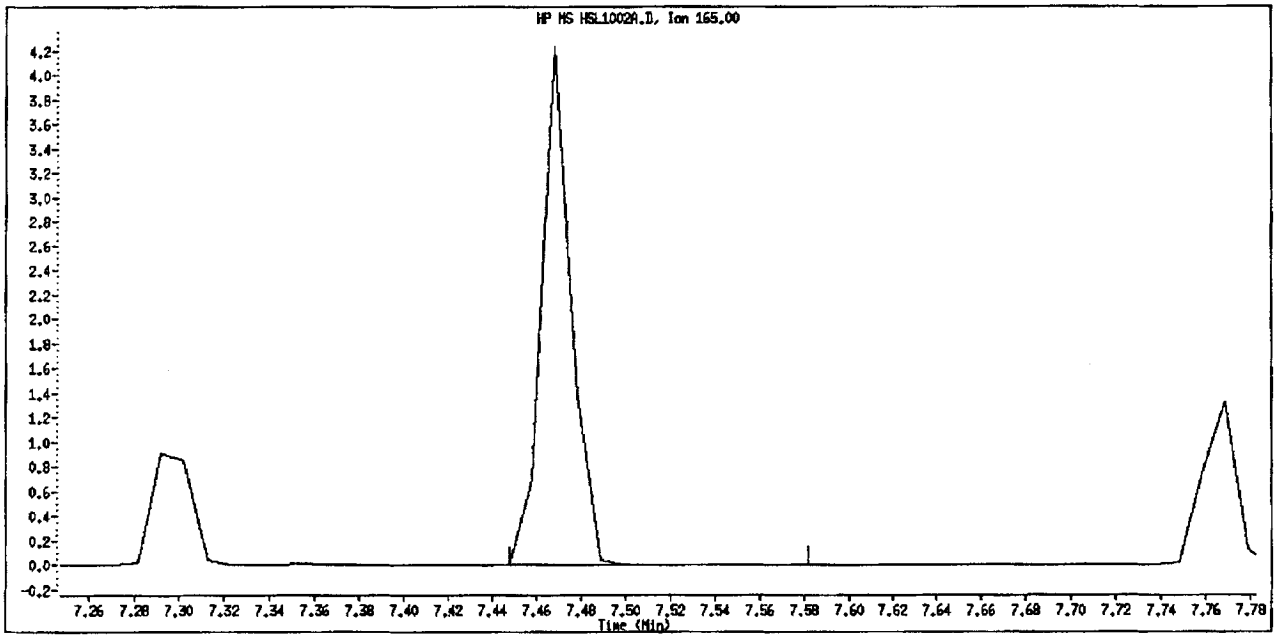
Original Integration



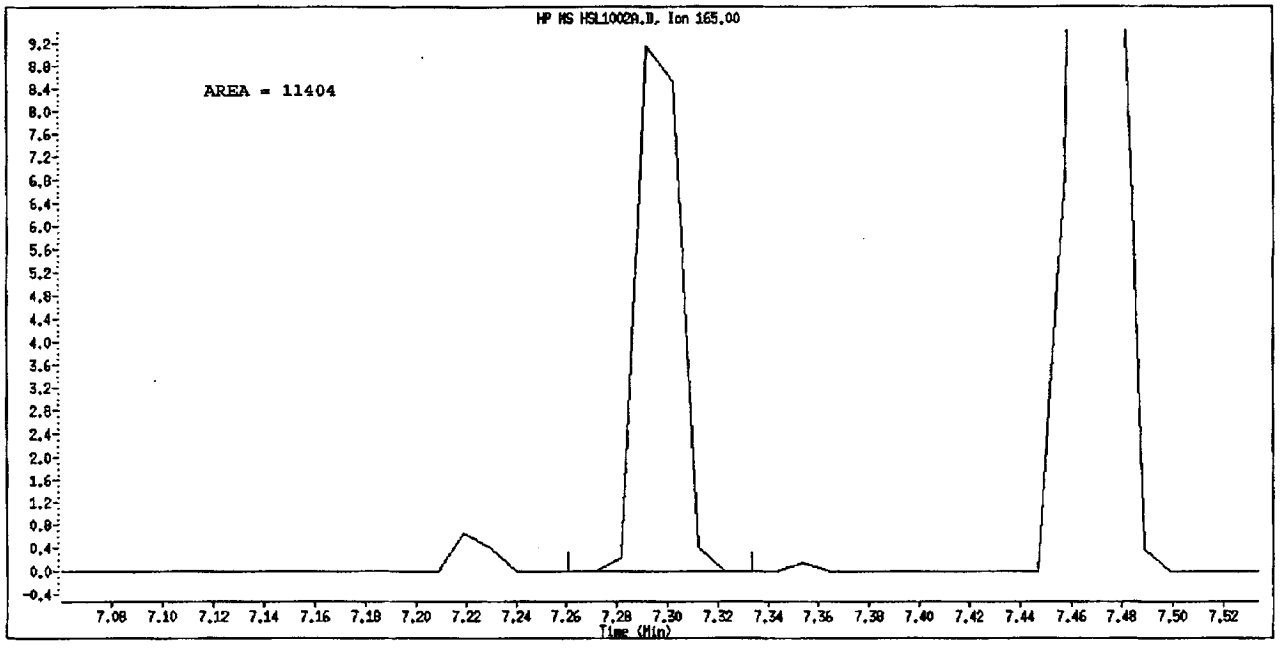
Manual Integration

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (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	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (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.

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	AREA LIMIT 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

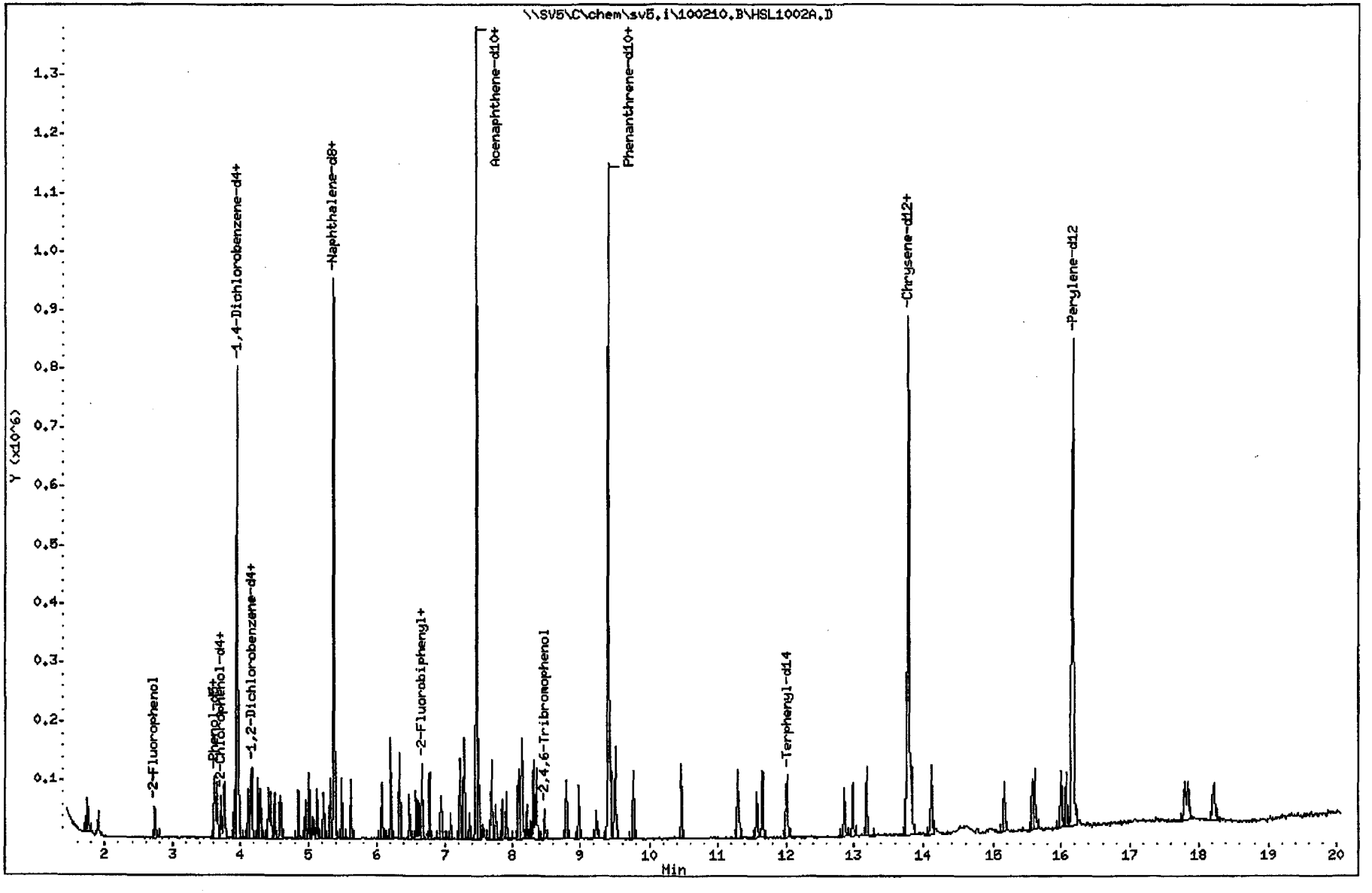
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.96	0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.78	13.28	14.28	13.78	0.00
6 Perylene-d12	16.16	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.H
Sample Info: HSL_005 ug/ml CS-1;1;;1;;;;;4

Instrument: sv5.i
Operator: KT
Column diameter: 2.00

Column phase:



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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (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

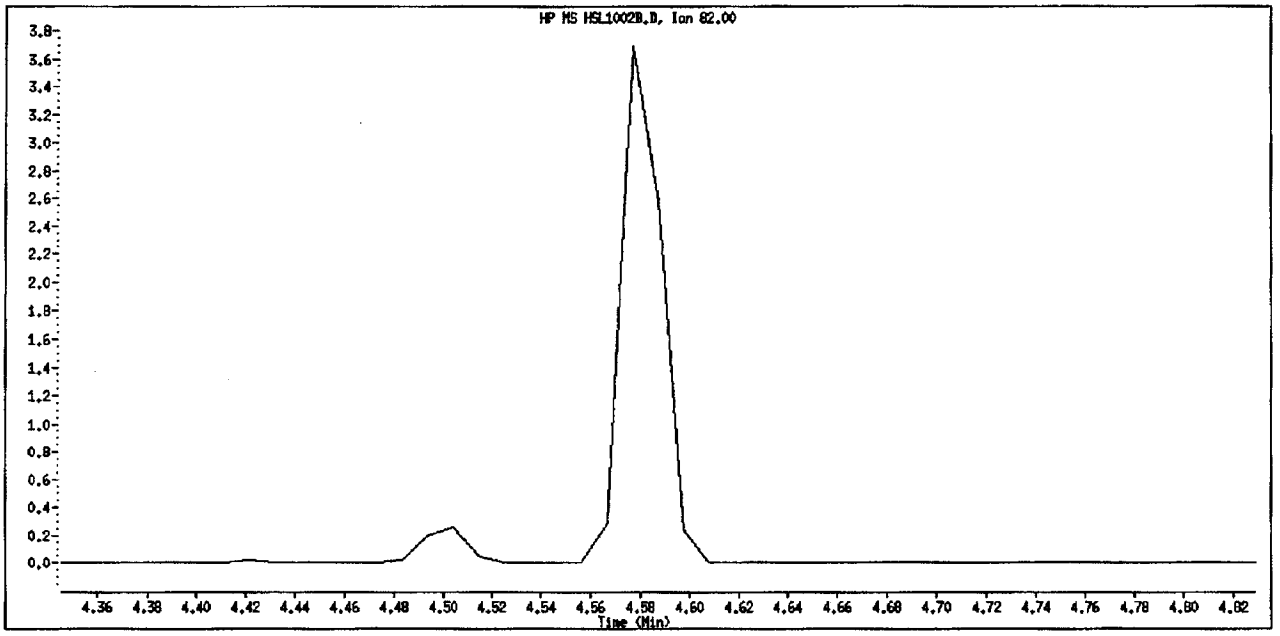
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47	Bis(2-chloroethoxy)methane	93	5.126	5.126	(0.956)	46230	10.0000	9.636
49	2,4-Dichlorophenol	162	5.229	5.229	(0.975)	32450	10.0000	9.744
50	Benzoic Acid	122	5.084	5.115	(0.948)	20056	10.0000	8.418
51	1,2,4-Trichlorobenzene	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

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

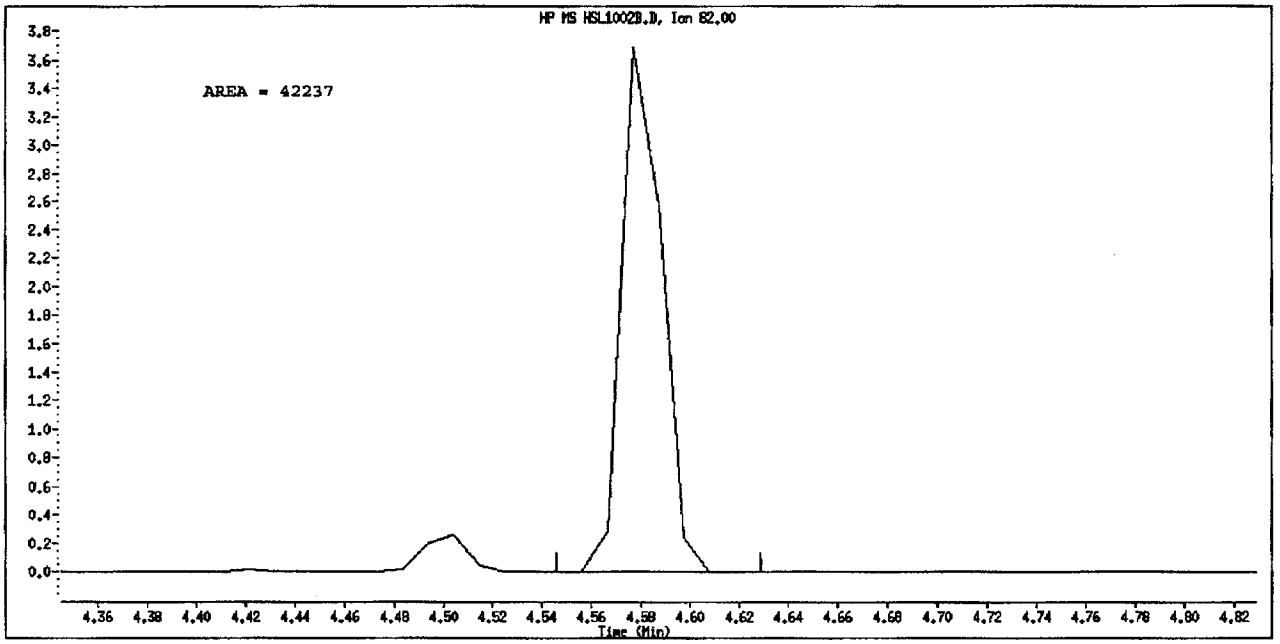
QC Flag Legend

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



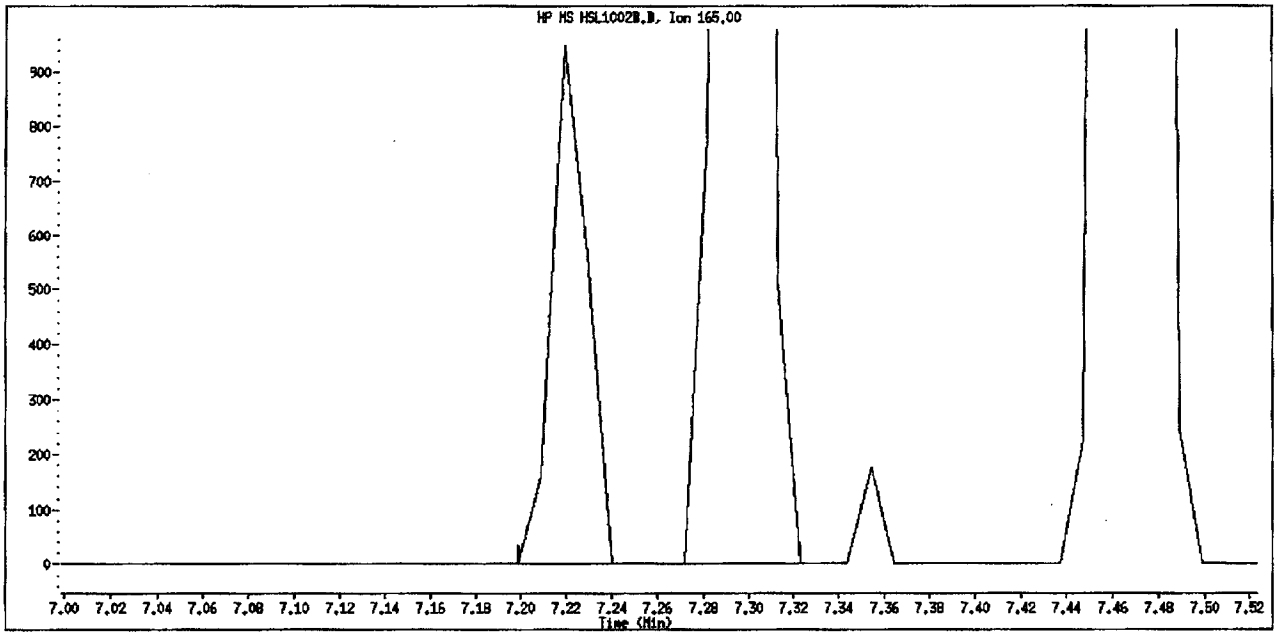
Original Integration



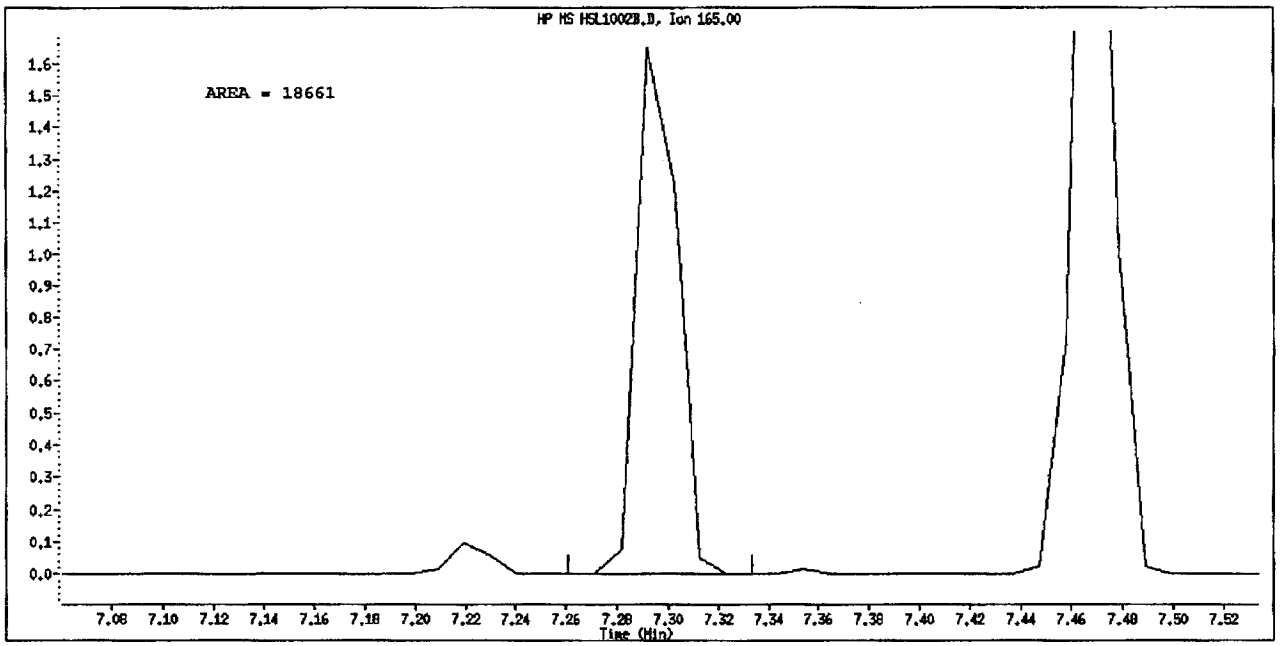
Manual Integration

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (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	

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	5.126	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

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

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

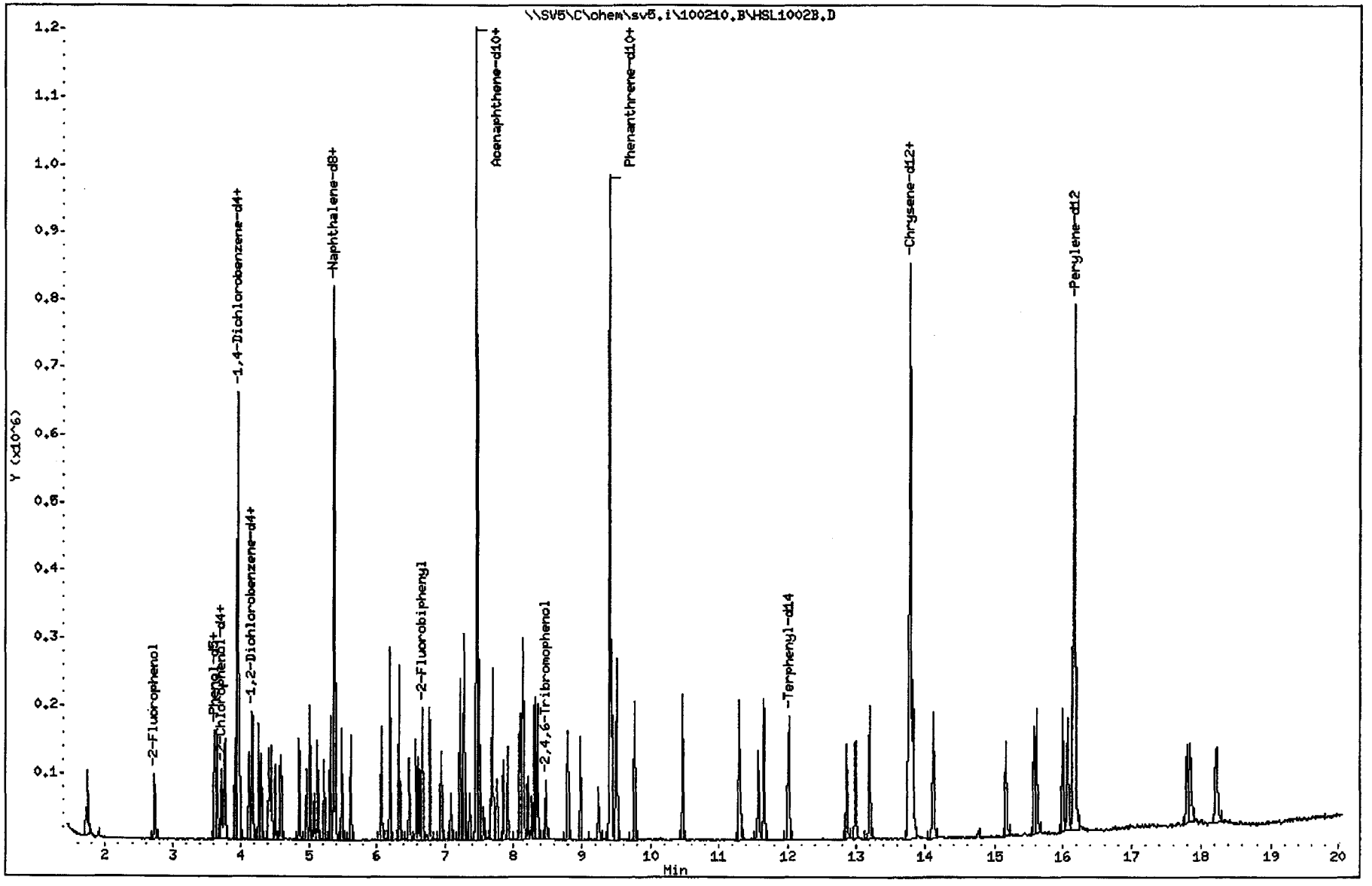
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.96	0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.36	-0.19
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.78	13.28	14.28	13.78	0.00
6 Perylene-d12	16.16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

Instrument: sv5.i
Operator: KT
Column diameter: 2.00

Column phase:



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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (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	

10-3-10

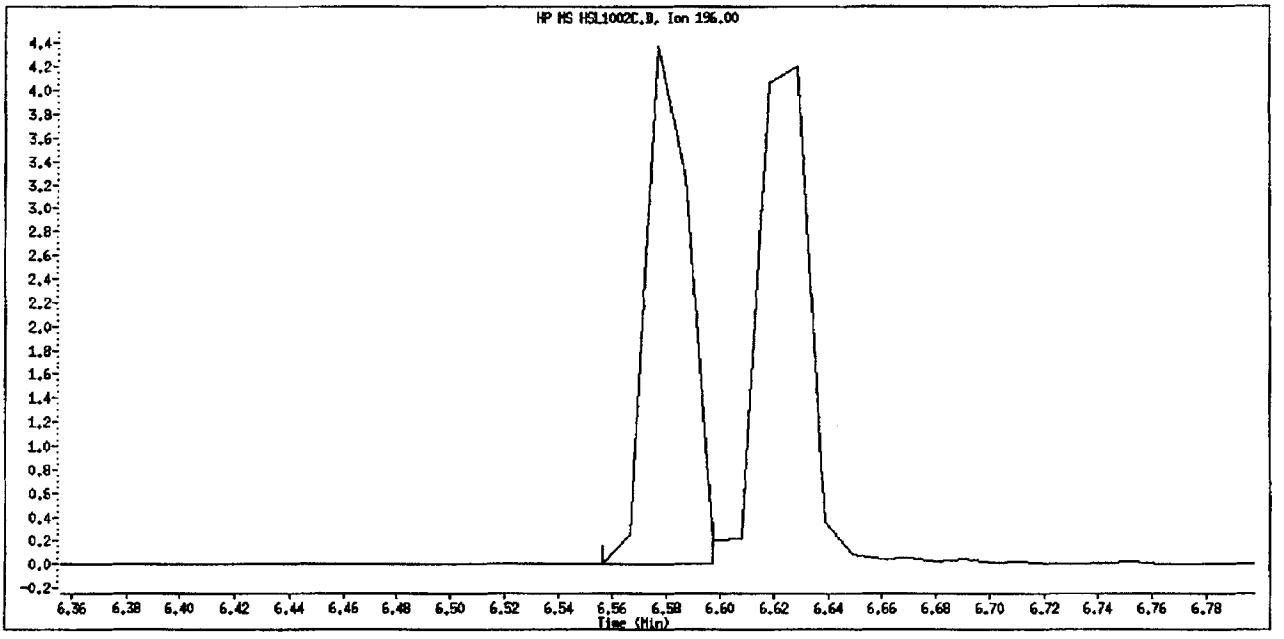
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.125	5.126	(0.956)	120646	20.0000	19.82
49 2,4-Dichlorophenol	162	5.229	5.229	(0.975)	84525	20.0000	20.01
50 Benzoic Acid	122	5.094	5.115	(0.950)	54506	20.0000	18.03
51 1,2,4-Trichlorobenzene	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

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

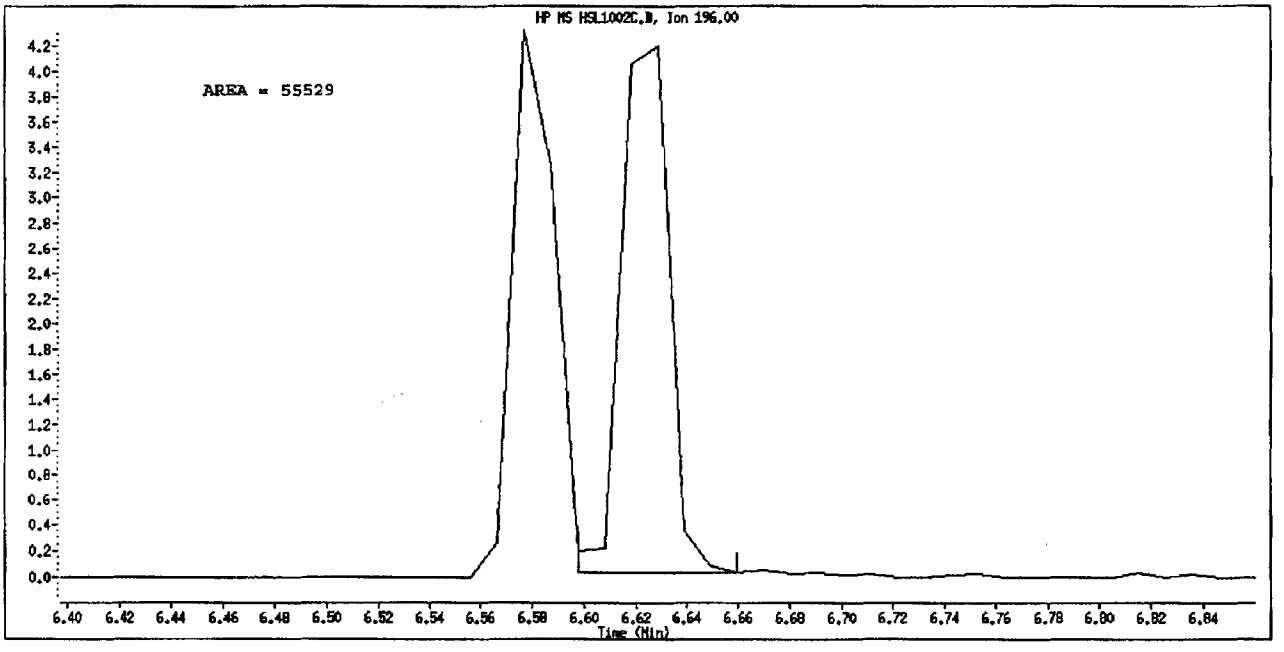
QC Flag Legend

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



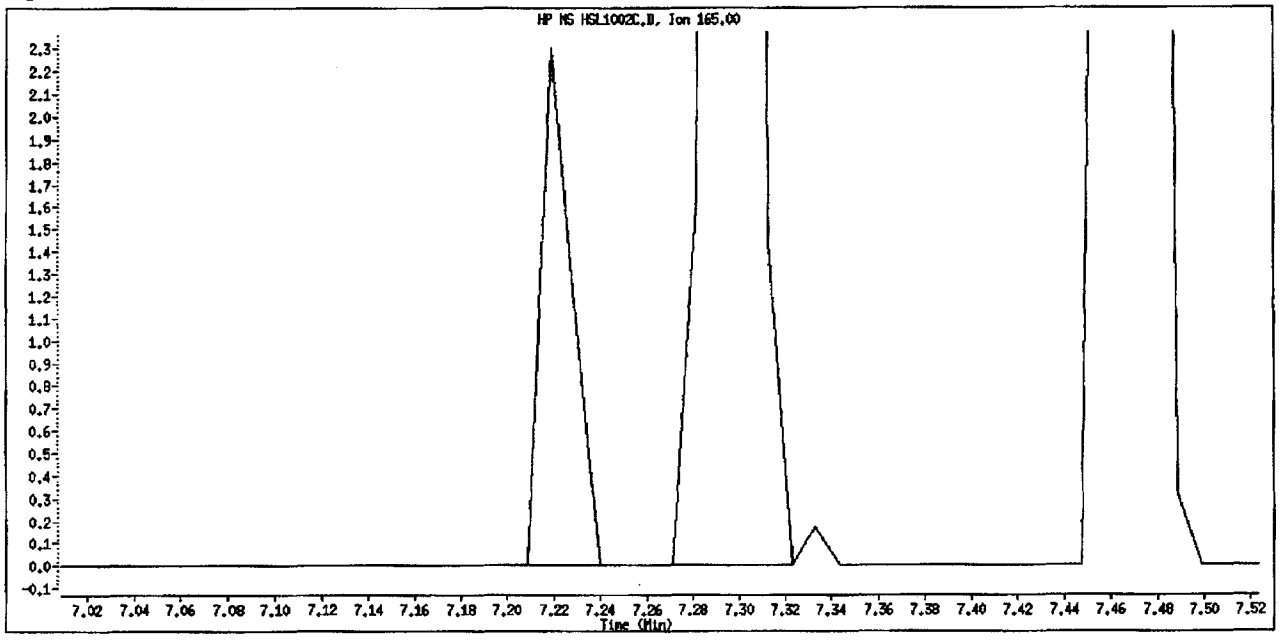
Original Integration



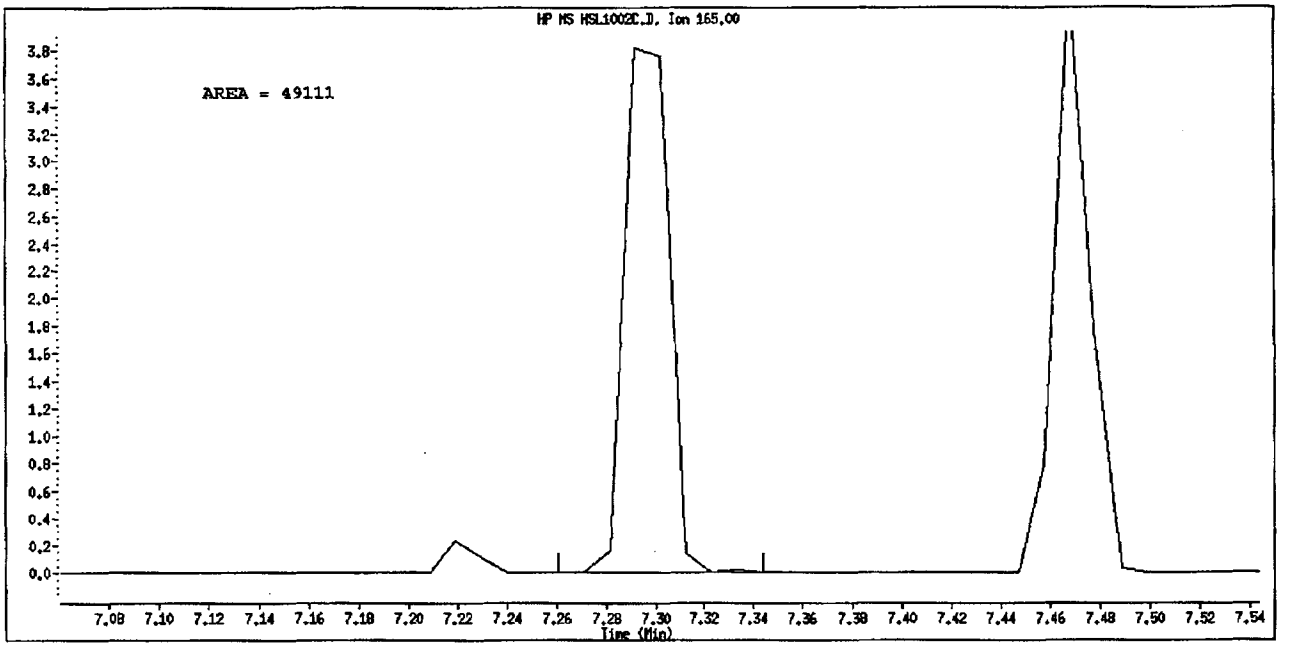
Manual Integration

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (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-Dichlorobehzene	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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (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.

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.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT 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

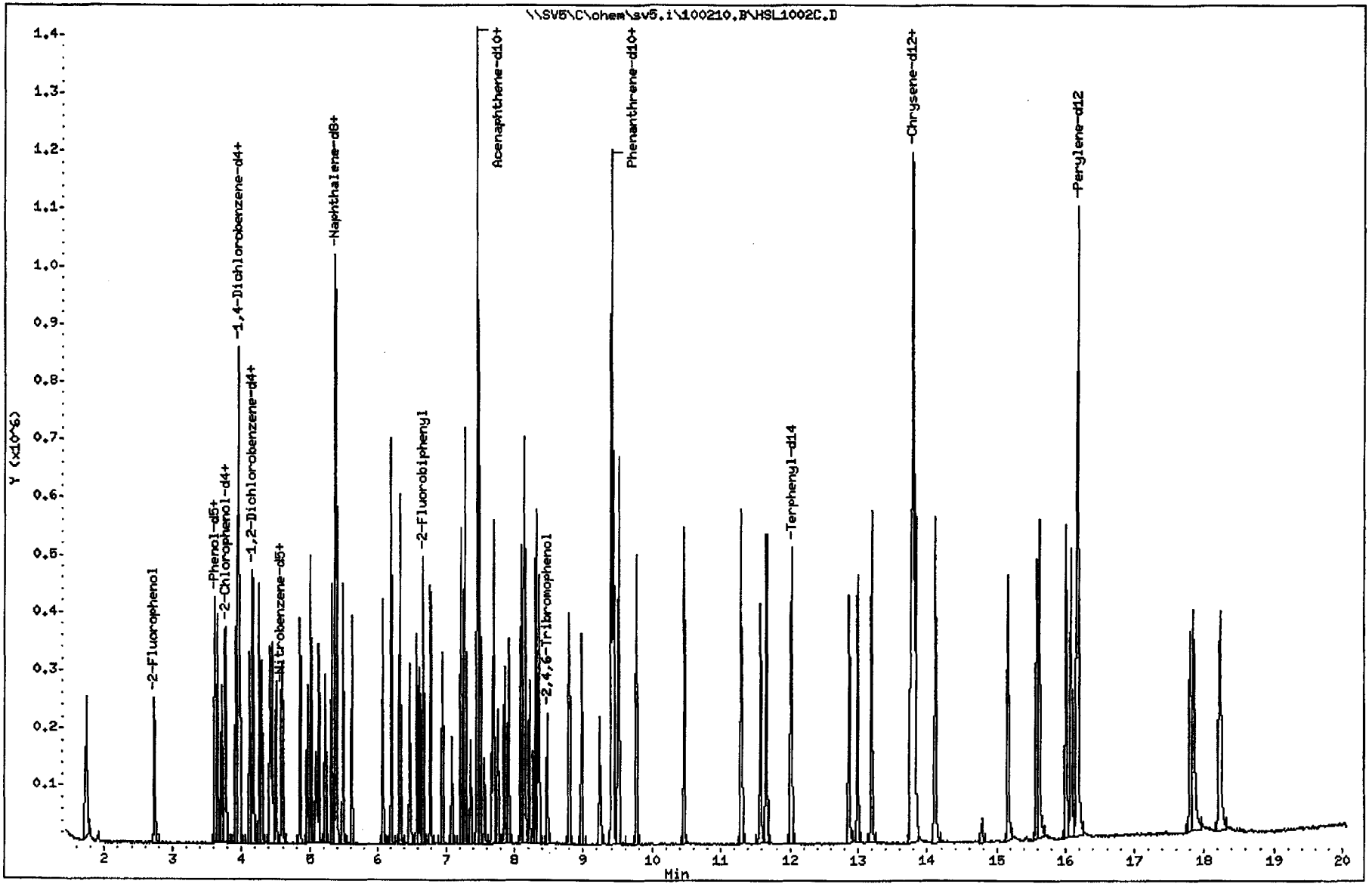
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.95	-0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.36	-0.20
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	-0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	-0.00
5 Chrysene-d12	13.78	13.28	14.28	13.78	-0.00
6 Perylene-d12	16.16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

Instrument: sv5.i
Operator: KT
Column diameter: 2.00

Column phase:



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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (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

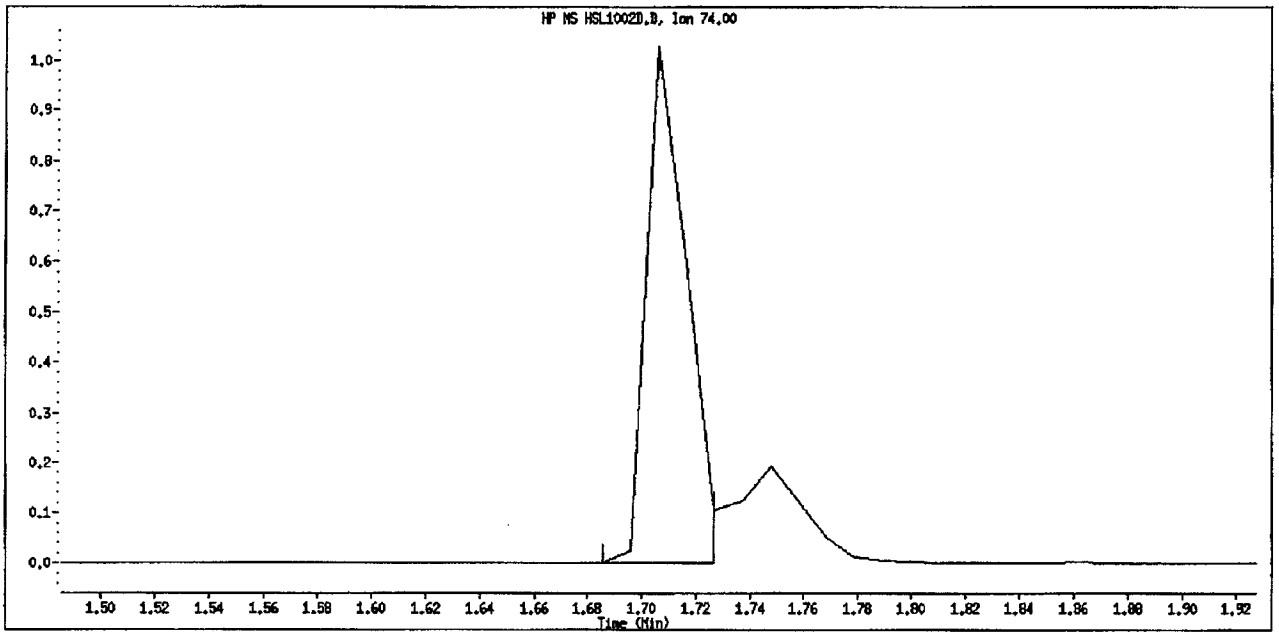
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.126	5.126	(0.954)	253648	50.0000	49.15
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	179296	50.0000	50.05
50 Benzoic Acid	122	5.115	5.115	(0.952)	128366	50.0000	50.08
51 1,2,4-Trichlorobenzene	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

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

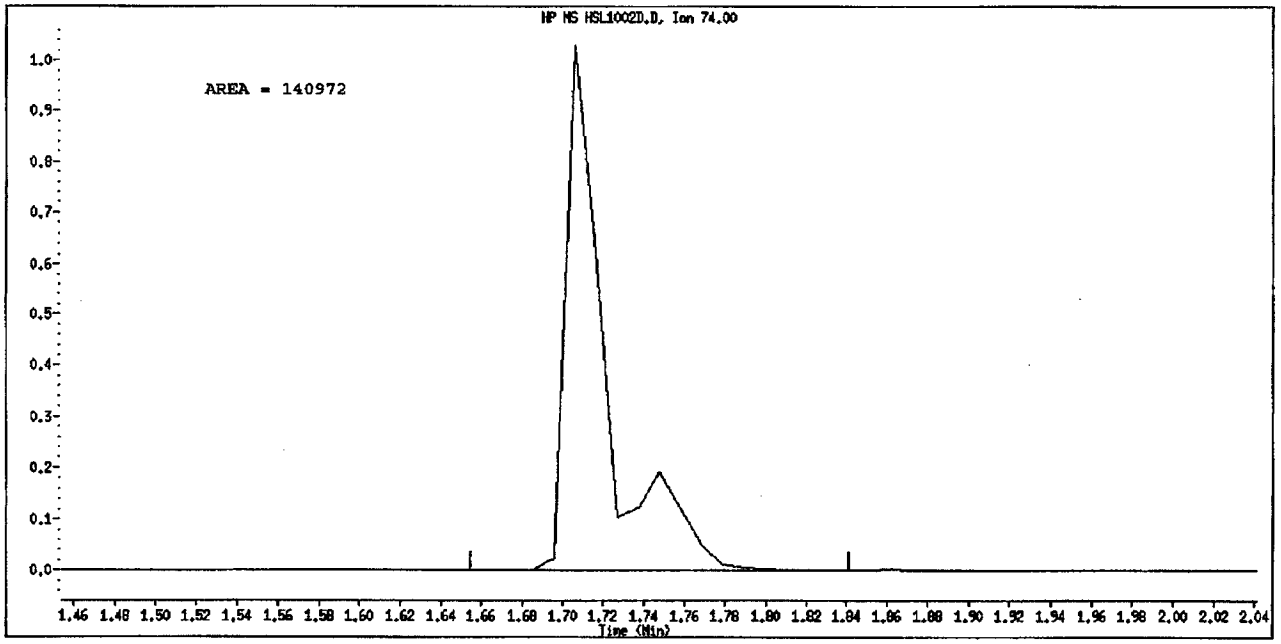
QC Flag Legend

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



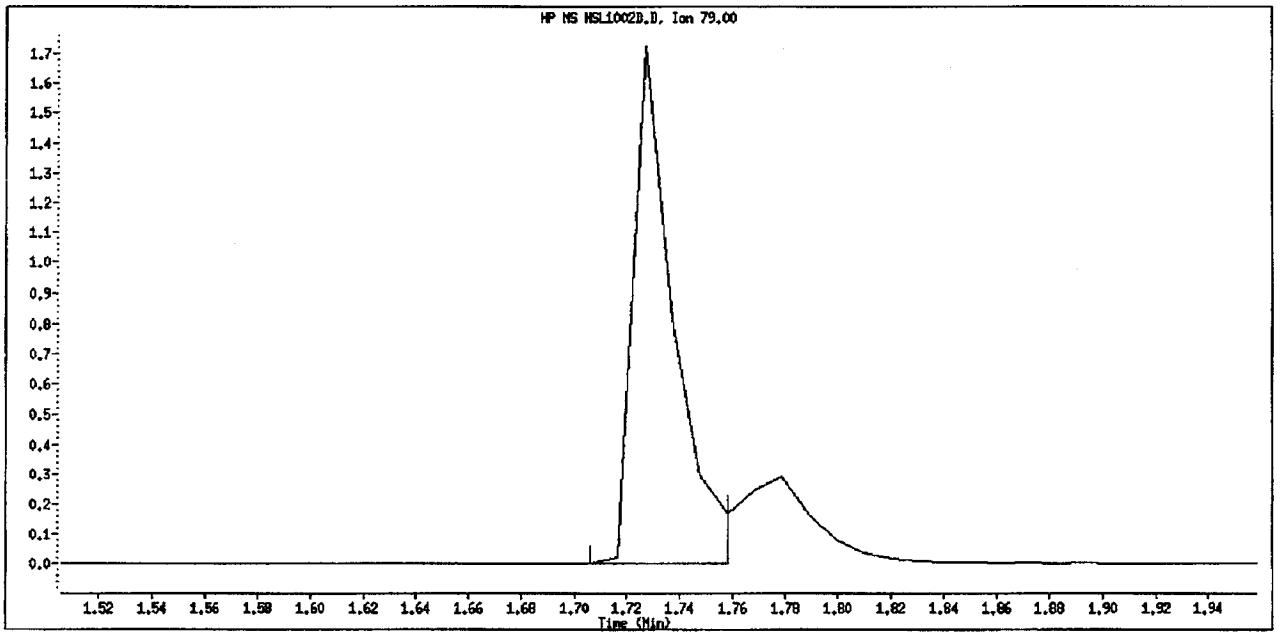
Original Integration



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



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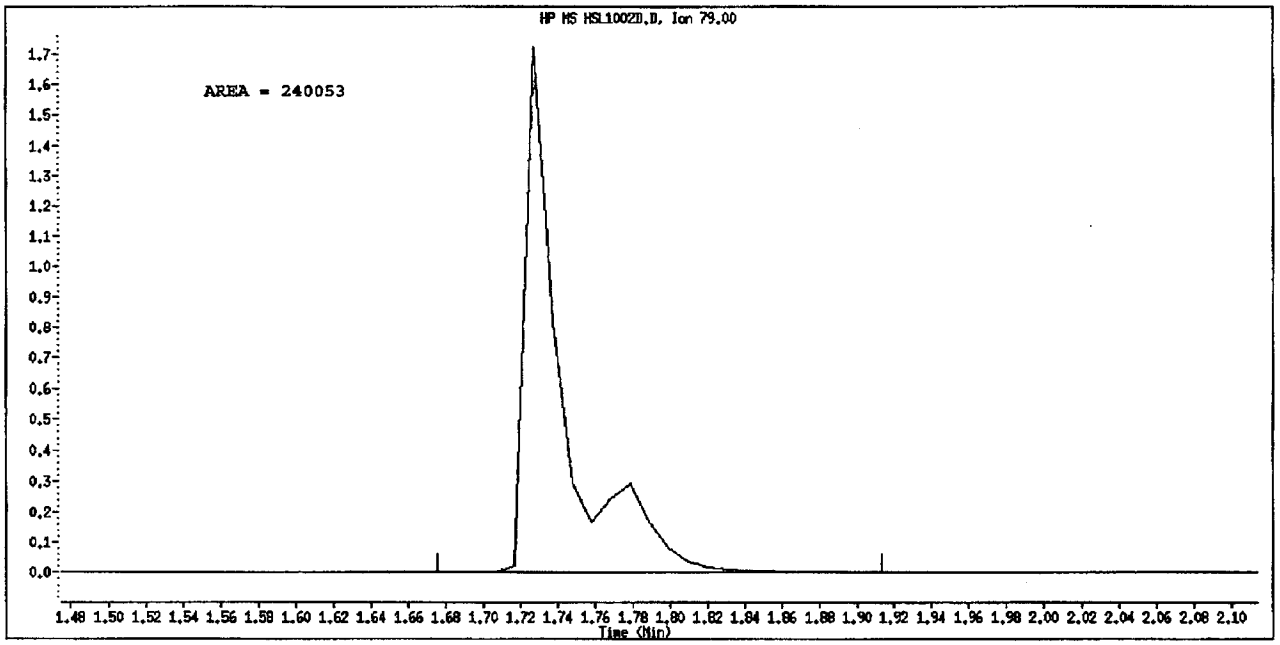
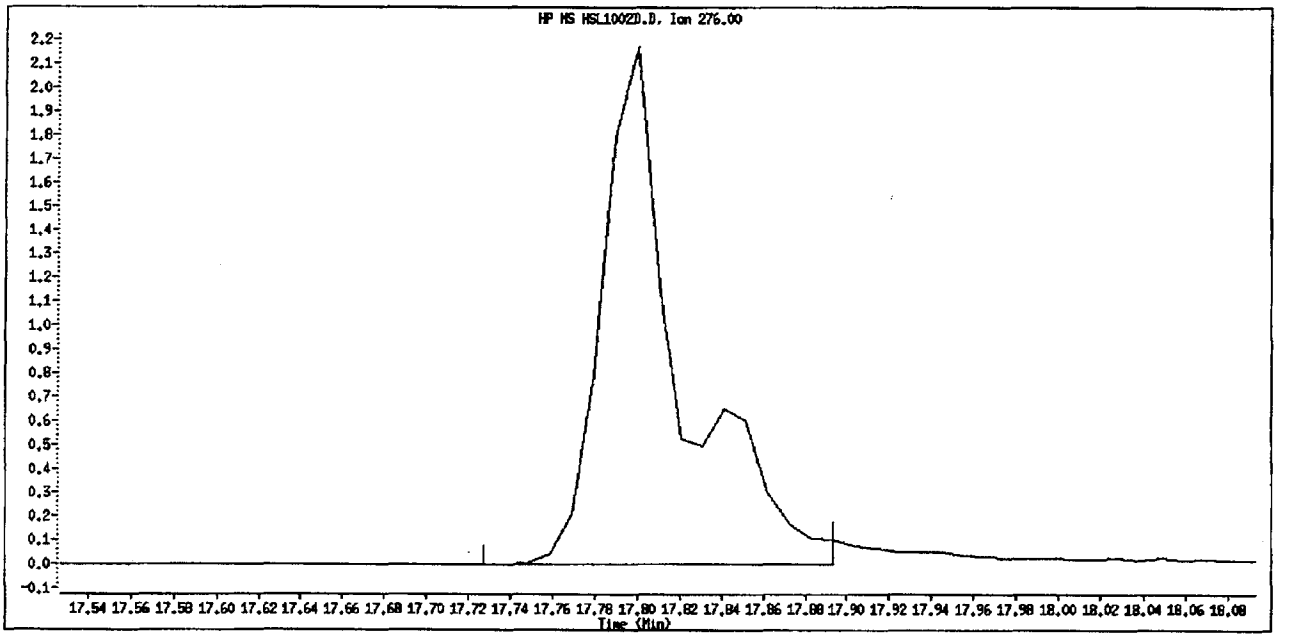


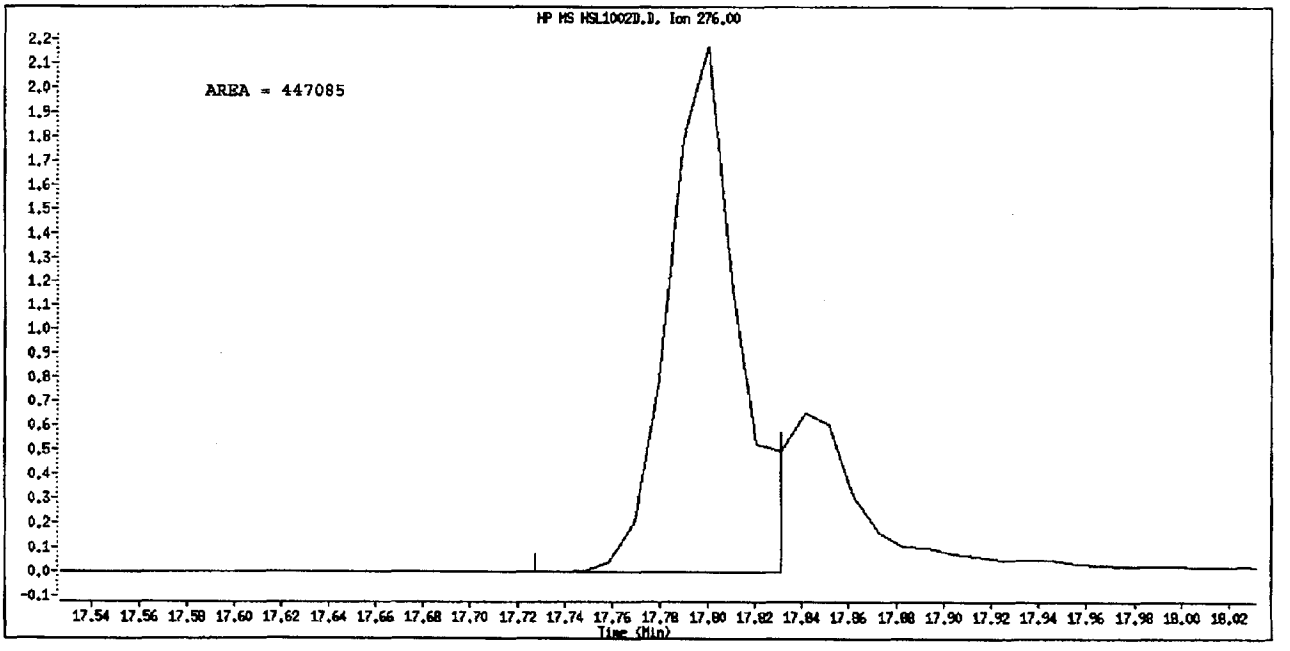
Manual Integration

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (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

						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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (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.

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.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT 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

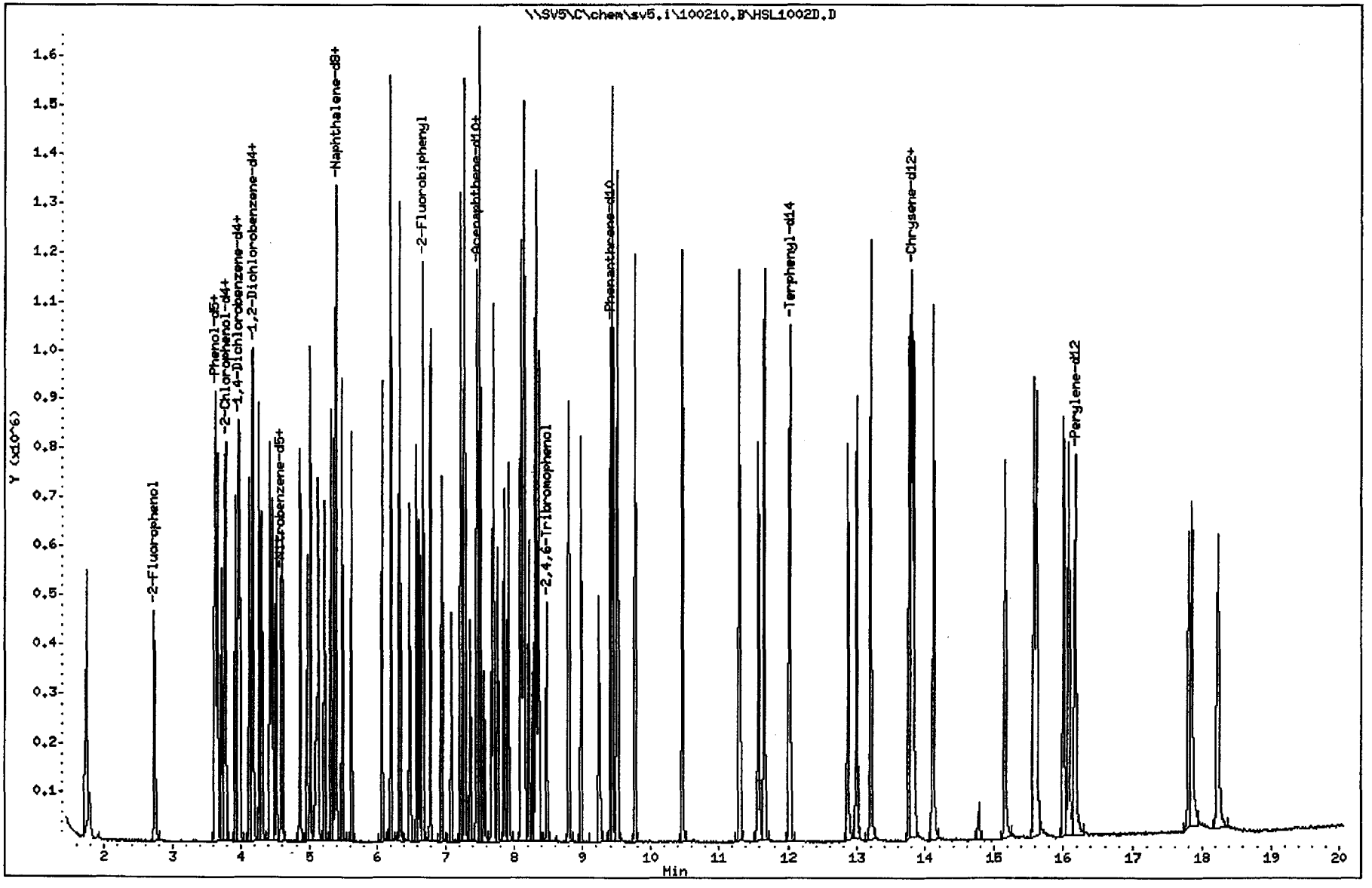
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.96	0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.78	13.28	14.28	13.78	0.00
6 Perylene-d12	16.16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

Instrument: sv5.i
Operator: KT
Column diameter: 2.00

Column phase:



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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (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

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	(0.954)	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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (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	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (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.

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 LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
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

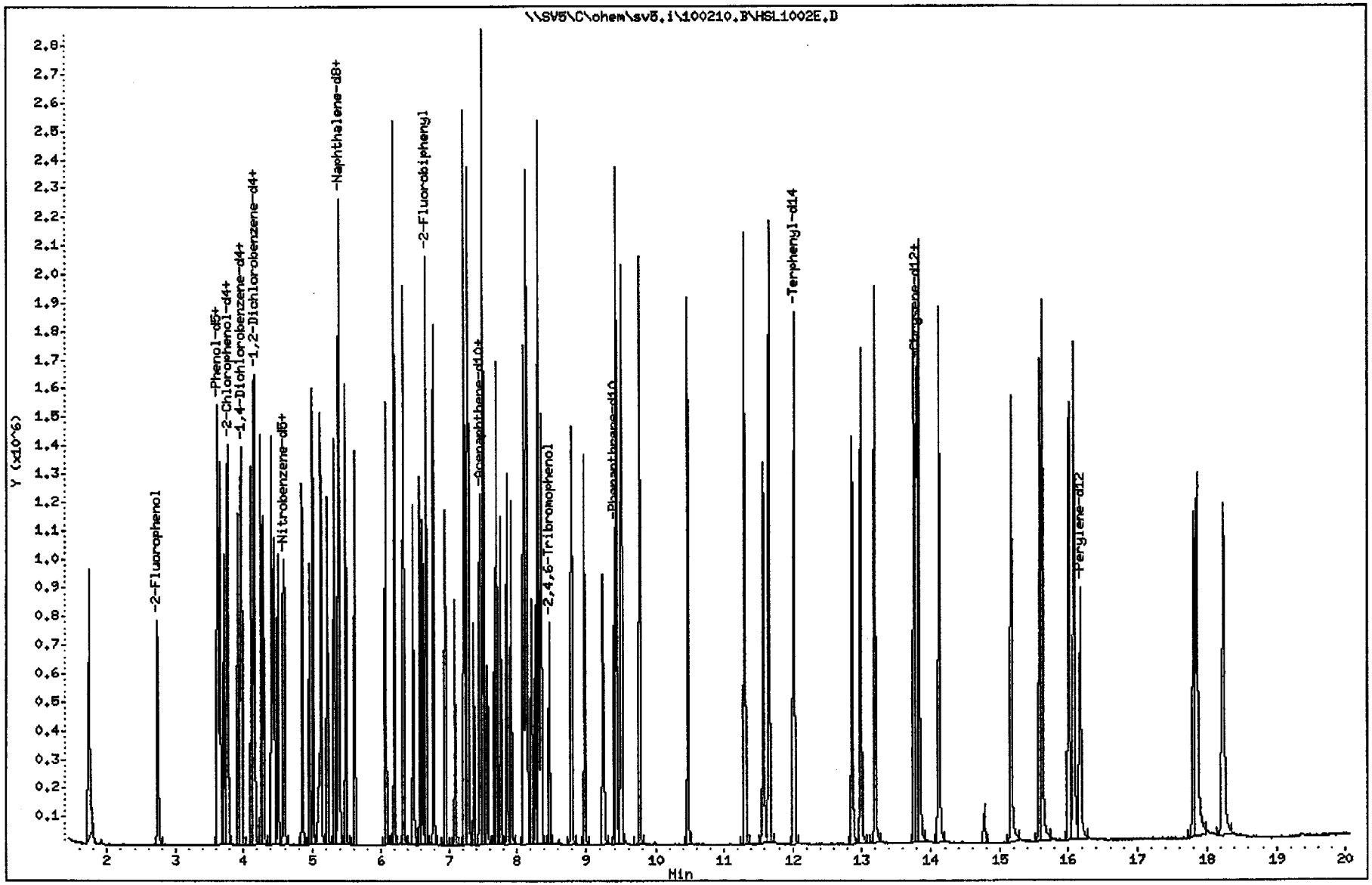
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.95	-0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	-0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	-0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	-0.00
5 Chrysene-d12	13.78	13.28	14.28	13.79	0.07
6 Perylene-d12	16.16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

Instrument: sv5.i
Operator: KT
Column diameter: 2.00

Column phase:



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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (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

10-3-10

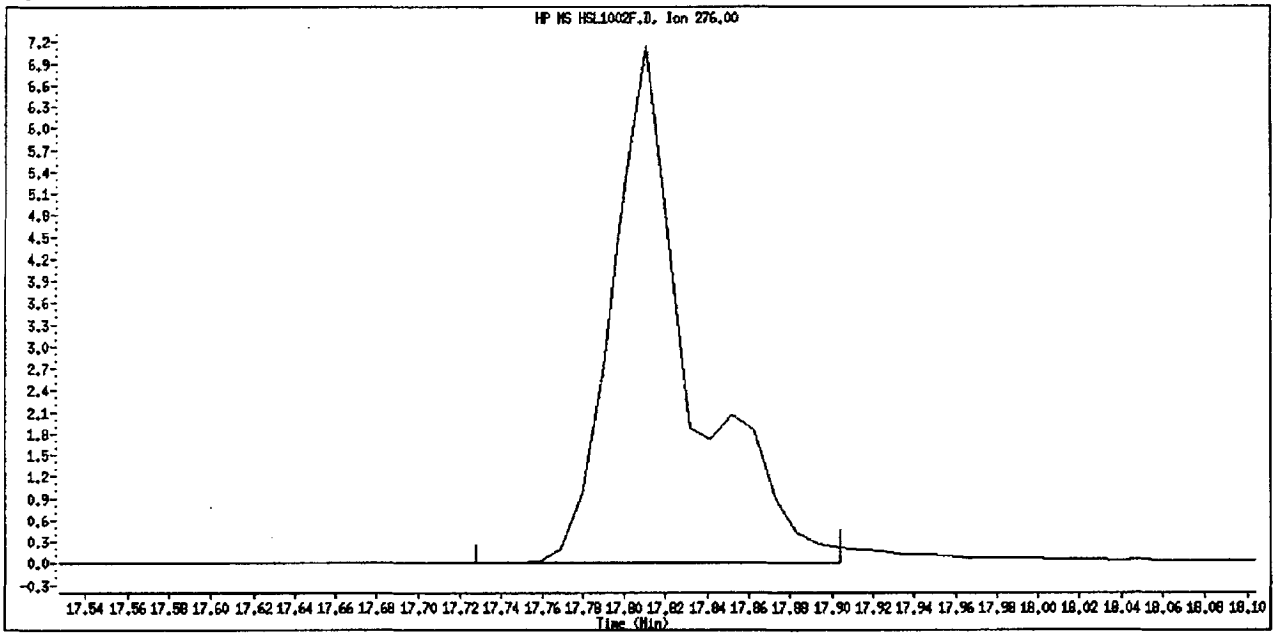
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47	Bis(2-chloroethoxy)methane	93	5.126	5.126	(0.954)	707504	120.000	122.9
49	2,4-Dichlorophenol	162	5.229	5.229	(0.973)	500185	120.000	125.2
50	Benzoic Acid	122	5.146	5.115	(0.958)	395333	120.000	138.3
51	1,2,4-Trichlorobenzene	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

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

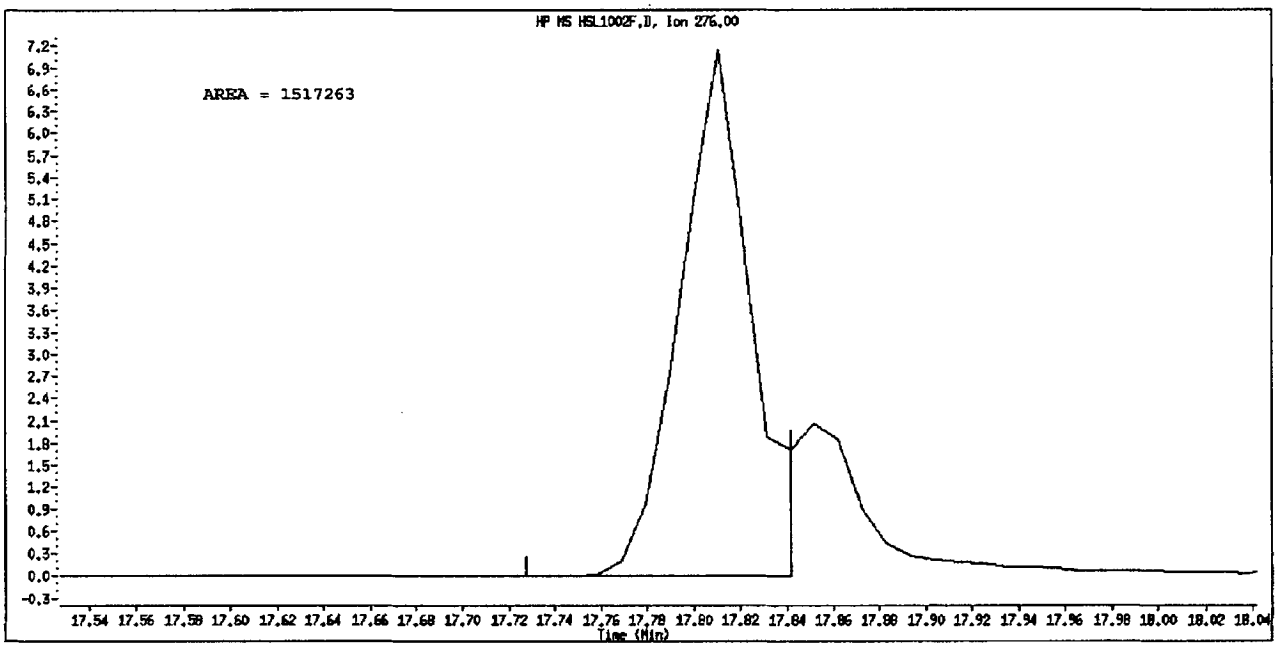
QC Flag Legend

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.

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (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	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (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.

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	AREA LIMIT 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

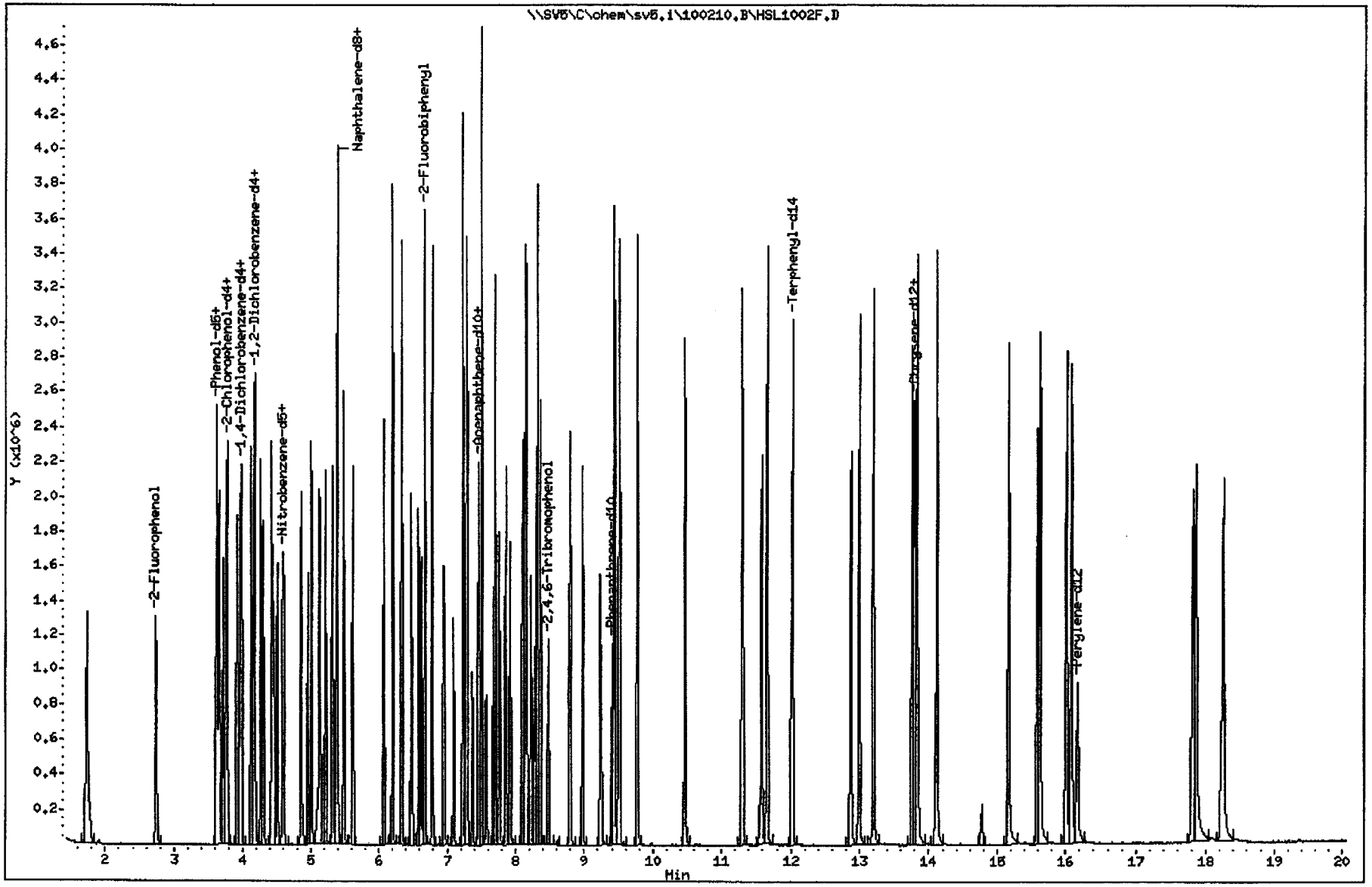
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.96	0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.78	13.28	14.28	13.79	0.08
6 Perylene-d12	16.16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

Instrument: sv5.i
Operator: KT
Column diameter: 2.00

Column phase:



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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (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)

10-3-10

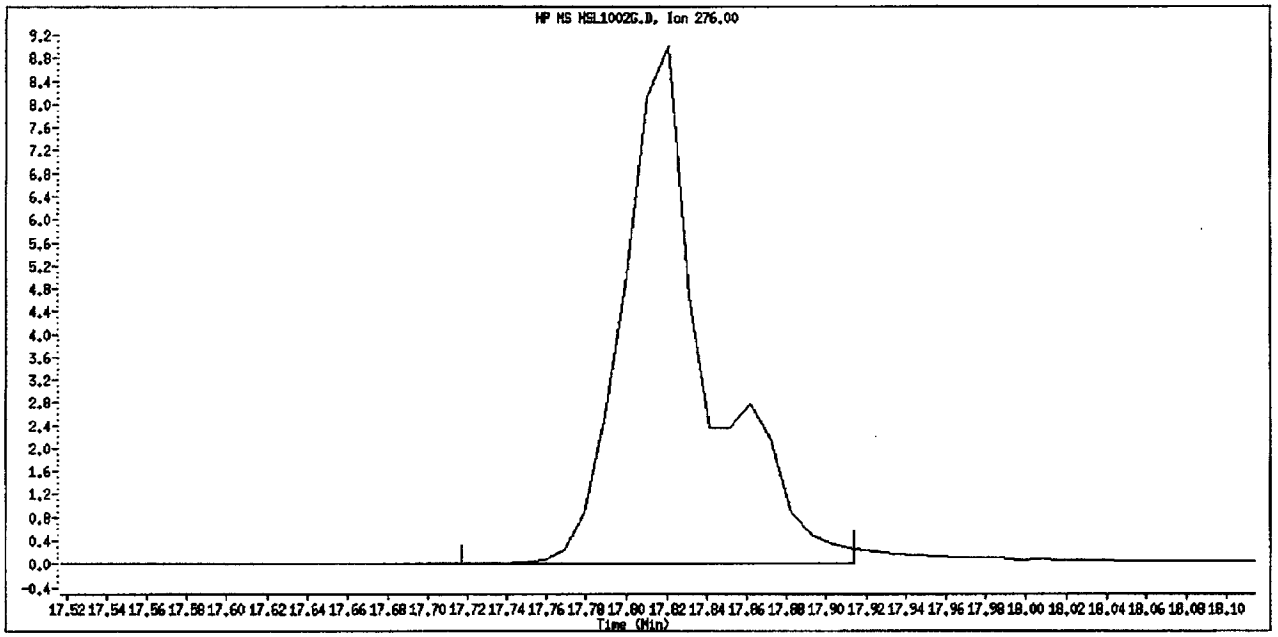
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.136	5.126	(0.956)	959710	160.000	158.5
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	692405	160.000	164.7(A)
50 Benzoic Acid	122	5.167	5.115	(0.961)	552251	160.000	183.6(A)
51 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)

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

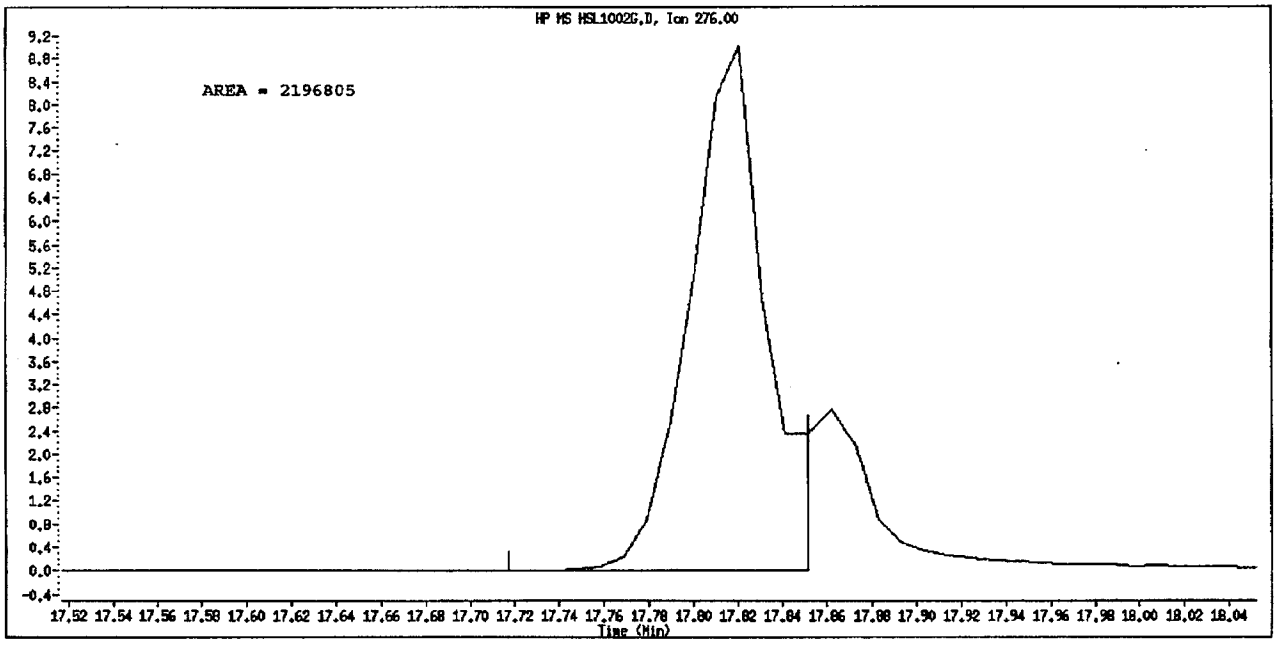
QC Flag Legend

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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (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)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (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)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (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.

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	AREA LIMIT 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	RT LIMIT 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

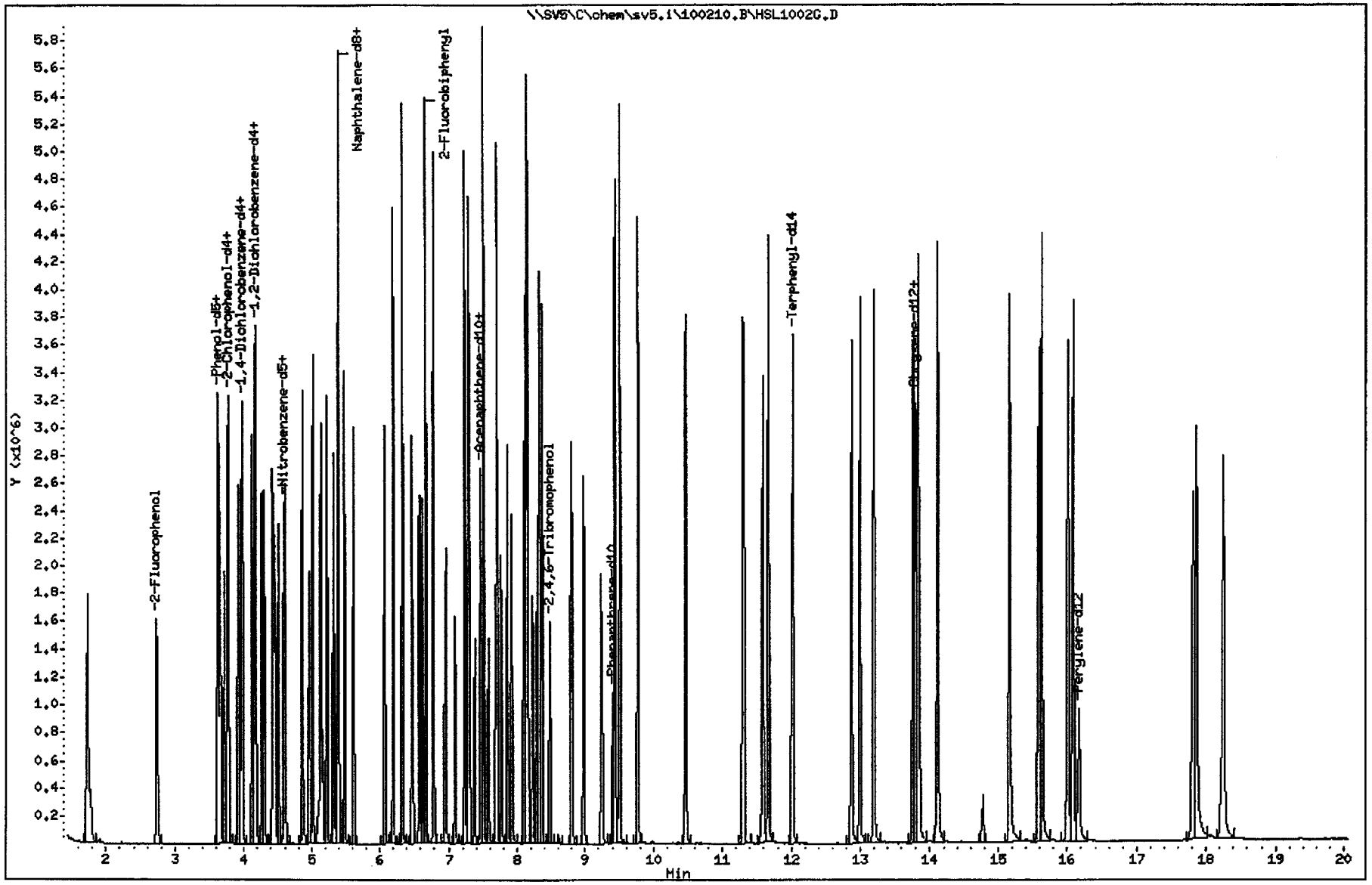
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002G.D
Date : 02-OCT-2010 15:00
Client ID: 8270F.H
Sample Info: HSL_160 ug/ml CS-7;1;;7;;;;4

Instrument: sv5.i

Operator: KT
Column diameter: 2.00

Column phase:



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

10/3/10

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

See RD

10/3/10

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (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

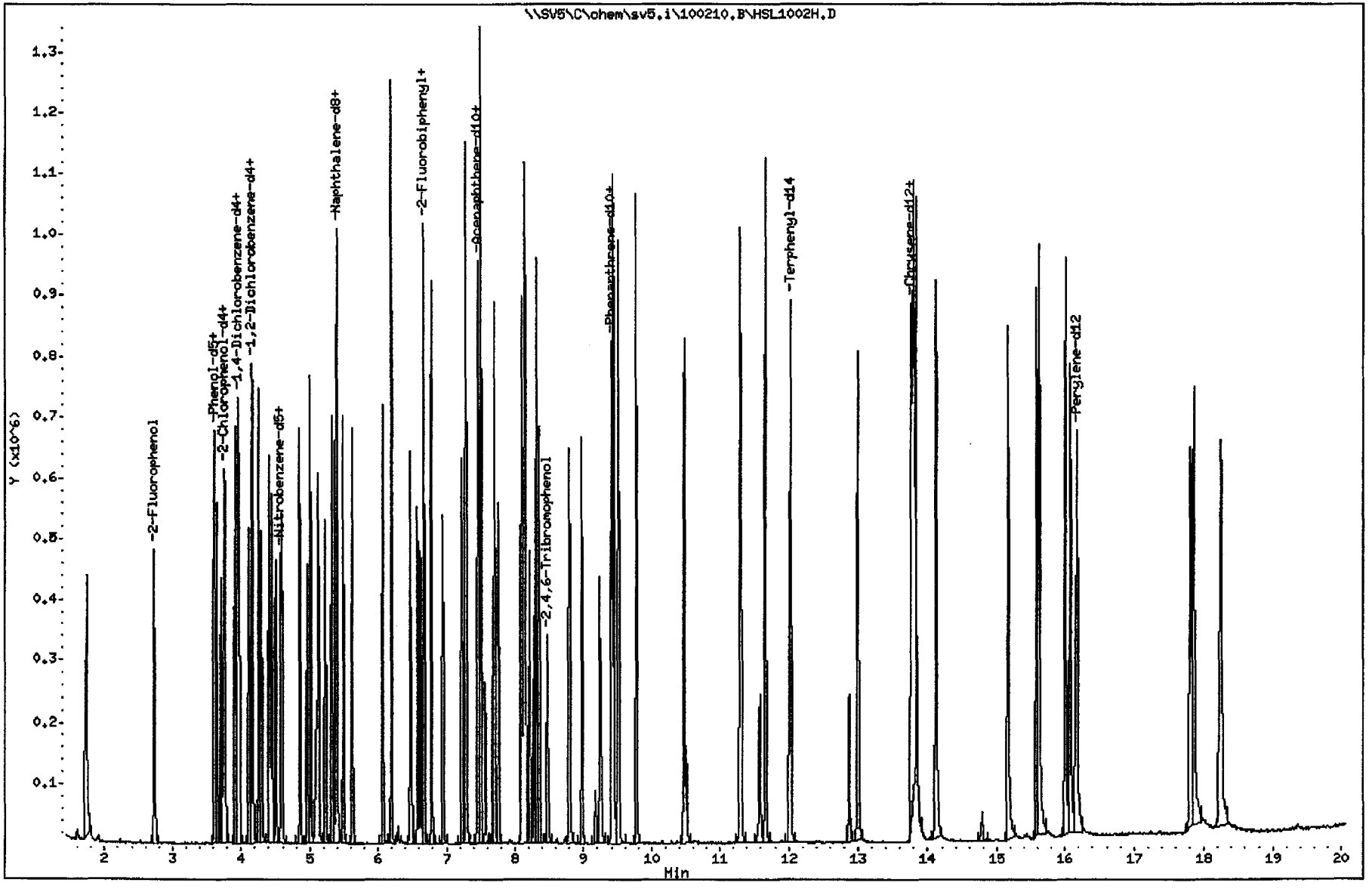
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.95	3.45	4.45	3.95	0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.79	13.29	14.29	13.79	0.00
6 Perylene-d12	16.17	15.67	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,H
Sample Info: HSL_050 ug/ml ICV;2;;4;;;;;4

Instrument: sv5.i
Operator: KT
Column diameter: 2.00

Column phase:



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

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

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: HSL1002H1.D
Lab Smp Id: Benzidines ICV 50ug
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
Misc Info: 3;;0;BenzICV.SUB;10MSSV0342;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	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

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT 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\o\chem\sv5.i\100210.B\HSL1002H1.D

Date : 02-OCT-2010 16:36

Client ID: 8270F.M

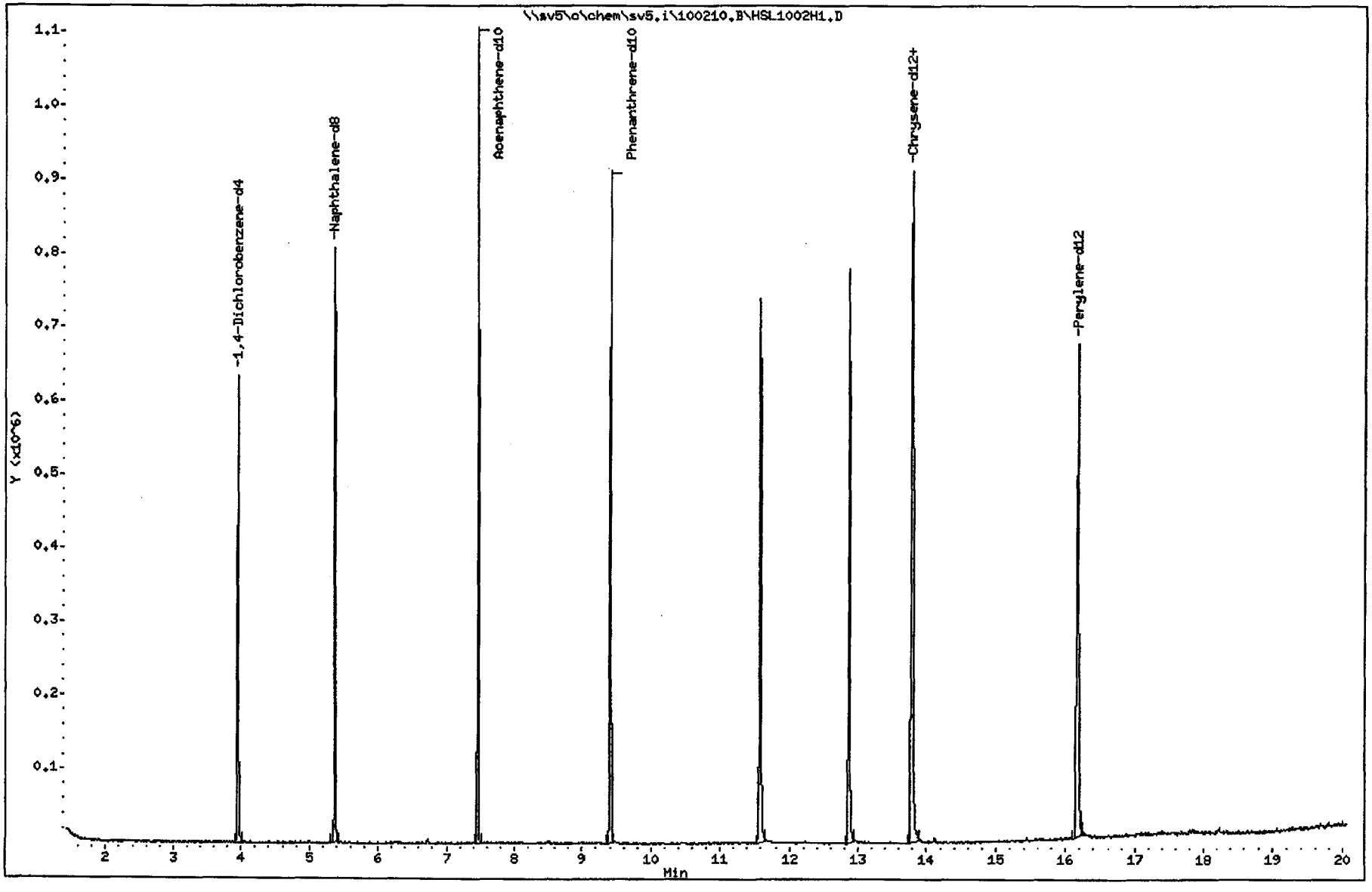
Sample Info: Benzidines ICV 50ug/mL;2;;4;;;;;4

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	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							
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

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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	160.000 Level 7	RRF	% RSD
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

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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							
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

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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	160.000 Level 7	RRF	% RSD
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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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							
$ 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

TestAmerica West Sacramento
Organic Prep Log
8270 Air

Box # Air box #291

Shared QC Batch: N/A

Shares QC With: N/A

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Internal COC:	
Delivered to Inst.:	12/14/10
Inst Receipt:	

Batch: 0347431
MS Run #:
Prep Date: 12/13/2010
Method: JZ TO-13
Matrix: S AIR
Extraction: 11 SOXHLET (NONE,Na2SO4)
QC: 3W AMBIENT AIR TESTING

SAC: JZ - S - 11 - 3W

Prep Reagents		
Reagent	Supplier	Lot #
1:1 DCM:Acetone	NA	N/A
DCM	Baker	J38 S03
Na2SO4	Baker	BC40-72A

WS-OP-0006

Soxhlet time on: 12/13/10 1830 Soxhlet time off: 10:35 12/14/10

Extraction Table							
Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size	Final Volume		Analysis Hold Time Expires
					1mL	Other	
G0L110441 - 3		MA8DG1AA	12/14/2010	1	✓	NA	1/16/2011
G0L110441 - 6		MA8DK1AA	12/14/2010	1			1/16/2011
G0L110441 - 9		MA8DN1AA	12/15/2010	1			1/17/2011
G0L110441 - 12		MA8DV1AA	12/15/2010	1			1/17/2011
G0L130000 - 431	B	MA9001AA	12/14/2010	1			1/16/2011
G0L130000 - 431	C	MA9001AC	12/14/2010	1			1/16/2011
G0L130000 - 431	L	MA9001AD	12/14/2010	1	↓	↓	1/16/2011

☒ XAD / PUF / (PUF-XAD)
☐ Filter
☐ Impinger

Comments/NCMs:

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Surrogate Spike All Samples	500 uL / 10Air0135 ...	6/6/11	[initials]	JZ	12/13/10
Spike Mix LCS/LCSD/~~MS/MS~~	1.0 mL / 10Air0136 LCS spike/...	6/6/11	[initials]	JZ	12/13/10
Pre-Spike Standard ~~All Samples~~ MS only	250uL / 10Air P12 1,2 DB d4/200 uL	4/19/11	[initials]	JZ	12/13/10
Internal Standard All Samples	20uL 10MS5110438	11-19-11	[initials]	VMN	12-15-10

Soxhlet Extraction Analyst/Date: [initials] 12/13/10
Concentration Analyst/Date: [initials] 12/14/10
KD Analyst/Date: ECY / 12/13/10
Liq Liq Extraction Analyst/Date:
KD Temp 85°C
Review Analyst/Date:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 0347431 **Test:** M TO-13

Prep Date: 12/13/10 **Holding Times:** 12/14/10 **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: JZ Date: 12/13/10

2nd Level Reviewer: MAT Date: 12/15/10

Comments:

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 12/14/10
Time: 23:23:46

LEV 1	LEV 2		LEV 1	LEV 2	
Y	_	Blank	Y	_	Weights/Volumes
Y	_	Check	Y	_	Spike & Surrogate Worksheet
_	_	MS/MSD	Y	_	Vial contains correct volume
			Y	_	Labels, greenbars, worksheets computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
_ Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: 90192

Concentrationist: 403162 erica X. larson
090182 Steve Valmores

QC BATCH: 0347431

PREP DATE: 12/13/10 18:00
COMP DATE: 12/14/10 17:00

Reviewer/Date: VALMORES / 12/14/10

Semivolatile Organics by GCMS in Air (TO-13A)
SOXHLET (NONE,Na2SO4)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
12/14/10	12/17/10	G0L110441-003 **MA8DG-1-AA**	R	11	JZ	AIR	**1** 1.00mL	NA	NA	NA	DCM	700.0		.0	500UL/10AIR0135/ABN SURR
COMMENTS:															
12/14/10	12/17/10	G0L110441-006 **MA8DK-1-AA**	R	11	JZ	AIR	**1** 1.00mL	NA	NA	NA	DCM	700.0		.0	500UL/10AIR0135/ABN SURR
COMMENTS:															
12/15/10	12/17/10	G0L110441-009 **MA8DN-1-AA**	R	11	JZ	AIR	**1** 1.00mL	NA	NA	NA	DCM	700.0		.0	500UL/10AIR0135/ABN SURR
COMMENTS:															
12/15/10	12/17/10	G0L110441-012 **MA8DV-1-AA**	R	11	JZ	AIR	**1** 1.00mL	NA	NA	NA	DCM	700.0		.0	500UL/10AIR0135/ABN SURR
COMMENTS:															
12/14/10	0/00/00	G0L130000-431 **MA900-1-AAB**		11	JZ	AIR	**1** 1.00mL	NA	NA	NA	DCM	700.0		.0	500UL/10AIR0135/ABN SURR
COMMENTS:															
12/14/10	0/00/00	G0L130000-431 **MA900-1-ACC**		11	JZ	AIR	**1** 1.00mL	NA	NA	NA	DCM	700.0		.0	1.0ML/10AIR0136/LCS SPIK 500UL/10AIR0135/ABN SURR
COMMENTS:															
12/14/10	0/00/00	G0L130000-431 **MA900-1-ADL**	R	11	JZ	AIR	**1** 1.00mL	NA	NA	NA	DCM	700.0		.0	1.0ML/10AIR0136/LCS SPIK 500UL/10AIR0135/ABN SURR
COMMENTS:															

SAMPLE LOC: AIRTOX # 291

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)

NUMBER OF WORK ORDERS IN BATCH: 7

TestAmerica West Sacramento

GC/MS Data Review Checklist

Batch: 0347431 **Method ID:** Semivolatile Organics by GCMS in Air (TO-13A)

NCM: Ⓨ N Lot ID G0L110441

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: 12/16/10

2nd Level Reviewer: _____ Date: 12/16/10

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

Run text: MCCX2-1-AA Sample text: MCCX2-1-AA :G0L110441-2MB
Run #14 Filename: 15DE109D5 S: 14 I: 1 Results: 15DE109D5TO9
Acquired: 15-DEC-10 19:21:47 Processed: 16-DEC-10 10:01:04
Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5
Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

BO 12/16/10

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	130347300	0.74	y	19:12	-	165.208	-	-	n
13C-2,3,7,8-TCDF	123969400	0.80	y	18:37	1.11	3415.075	2.744	85.4	n
2,3,7,8-TCDF	*	*	n	NotFnd	0.88	*	6.291	-	n
Total TCDF	*	*	n	NotFnd	0.88	*	6.291	-	n
13C-2,3,7,8-TCDD	115086900	0.74	y	19:24	0.97	3633.519	8.517	90.8	n
2,3,7,8-TCDD	*	*	n	NotFnd	0.87	*	2.400	-	n
Total TCDD	57686	2.47	n	18:37	0.87	~~2.300~~	2.400	-	n
37Cl-2,3,7,8-TCDD	54809600	1.00	y	19:25	1.22	1556.868	1.785	97.3	n
13C-1,2,3,7,8-PeCDF	100368500	1.49	y	24:16	0.92	3344.166	5.182	83.6	n
1,2,3,7,8-PeCDF	*	*	n	NotFnd	1.06	*	6.661	-	n
2,3,4,7,8-PeCDF	*	*	n	NotFnd	1.03	*	6.901	-	n
Total F2 PeCDF	*	*	n	NotFnd	1.05	*	~~6.779~~	-	n
Total F1 PeCDF	146149	3.22	n	19:12	1.05	~~5.568~~	6.901 ~~4.551~~	-	n
13C-1,2,3,7,8-PeCDD	97450400	1.49	y	26:35	0.83	3605.610	2.855	90.1	n
1,2,3,7,8-PeCDD	*	*	n	NotFnd	0.79	*	4.103	-	n
Total PeCDD	25323	4.54	n	24:16	0.79	~~1.311~~	4.103	-	n
13C-1,2,3,7,8,9-HxCDD	76542400	1.32	y	32:49	-	149.164	-	-	n
13C-1,2,3,4,7,8-HxCDF	73834700	0.51	y	31:39	1.07	3598.843	3.079	90.0	n
1,2,3,4,7,8-HxCDF	*	*	n	NotFnd	1.06	*	2.907	-	n
1,2,3,6,7,8-HxCDF	*	*	n	NotFnd	1.12	*	2.754	-	n
2,3,4,6,7,8-HxCDF	*	*	n	NotFnd	1.05	*	2.947	-	n
1,2,3,7,8,9-HxCDF	*	*	n	NotFnd	0.95	*	3.243	-	n
Total HxCDF	*	*	n	NotFnd	1.05	*	3.243 ~~2.953~~	-	n
13C-1,2,3,6,7,8-HxCDD	64564200	1.30	y	32:34	0.89	3799.319	6.023	95.0	n
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	1.11	*	1.433	-	n
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.16	*	1.376	-	n
1,2,3,7,8,9-HxCDD	24691	1.03	n	32:52	1.20	~~1.273~~	1.328	-	n
Total HxCDD	155378	3.38	n	31:39	1.16	~~8.264~~ 12/17/10 MC	1.423 ~~1.378~~ 1.958	-	n
13C-1,2,3,4,6,7,8-HpCDF	74999800	0.44	y	34:17	0.95	4134.018	7.327	103.4	n
1,2,3,4,6,7,8-HpCDF	42628	2.56	n	34:17	1.44	JQ 1.584 /	1.246	-	n
1,2,3,4,7,8,9-HpCDF	23053	1.17	y	35:24	1.23	~~1.002~~	1.458	-	n
Total HpCDF	76604	2.56	n	34:17	1.33	~~2.024~~ 1.584	1.344	-	n
13C-1,2,3,4,6,7,8-HpCDD	87458400	1.00	y	35:05	1.08	4250.240	6.403	106.3	n
1,2,3,4,6,7,8-HpCDD	52167	0.94	y	35:05	0.90	J 2.665 /	0.903	-	n
Total HpCDD	168583	2.89	n	34:17	0.90	~~8.612~~ 5.326	0.903	-	n
13C-OCDD	104943200	0.87	y	37:31	0.69	7949.832	6.736	99.4	n
OCDF	51090	0.90	y	37:37	1.18	J 3.301 /	1.847	-	n
OCDD	124693	0.94	y	37:31	1.14	J 8.349 /	2.959	-	n

Run Text: MCCX2-1-AA Sample text: MCCX2-1-AA :G0L110441-2MB

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:0
Run: 14 File: 15DE109D5 S:14 Acq:15-DEC-10 19:21:47
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

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

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	NotF	*	n	*	*	*	n	n
						*	*	n	n

Run Text: MCCX2-1-AA Sample text: MCCX2-1-AA :G0L110441-2MB

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:1
Run: 14 File: 15DE109D5 S:14 Acq:15-DEC-10 19:21:47
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	1.150 of which	* named and	1.150	unnamed		
Conc:	2.300 of which	* named and	2.300	unnamed		

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	18:37	2.473	n	2.300	80582	7.674	y	n
						32591	3.710	y	n

Run Text: MCCX2-1-AA Sample text: MCCX2-1-AA :G0L110441-2MB

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:0
Run: 14 File: 15DE109D5 S:14 Acq:15-DEC-10 19:21:47
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

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

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	NotF	*	n	*	*	*	n	n
						*	*	n	n

Run Text: MCCX2-1-AA Sample text: MCCX2-1-AA :G0L110441-2MB

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:2
Run: 14 File: 15DE109D5 S:14 Acq:15-DEC-10 19:21:47
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	2.784 of which	* named and	2.784	unnamed	
Conc:	5.568 of which	* named and	5.568	unnamed	

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	19:12	3.216 n	2.500	82753	6.632	y	n
					25730	1.875	n	n
	2	19:24	2.705 n	3.068	85420	6.060	y	n
					31583	1.940	n	n

Run Text: MCCX2-1-AA Sample text: MCCX2-1-AA :G0L110441-2MB

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:1
Run: 14 File: 15DE109D5 S:14 Acq:15-DEC-10 19:21:47
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	0.655 of which	* named and	0.655	unnamed	
Conc:	1.311 of which	* named and	1.311	unnamed	

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	24:16	4.543 n	1.311	45114	3.584	y	n
					9931	1.878	n	n

Run Text: MCCX2-1-AA Sample text: MCCX2-1-AA :G0L110441-2MB

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:0
Run: 14 File: 15DE109D5 S:14 Acq:15-DEC-10 19:21:47
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

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

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	NotF	* n	*	*	*	n	n
					*	*	n	n

Run Text: MCCX2-1-AA Sample text: MCCX2-1-AA :G0L110441-2MB

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:5
Run: 14 File: 15DE109D5 S:14 Acq:15-DEC-10 19:21:47
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	4.132 of which	0.637 named and	3.495 unnamed
Conc:	8.264 of which	1.273 named and	6.991 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	31:39	3.375 n	1.700	47874	10.128	y	n
					14184	3.734	y	n
	2	31:46	3.756 n	1.958	61374	11.111	y	n
					16339	3.869	y	n
	3	32:20	2.659 n	1.936	42970	9.027	y	n
					16157	3.829	y	n
1,2,3,7,8,9-HxCDD	4	32:52	1.027 n	1.273	13669	2.143	n	n
					13310	2.786	n	n
	5	32:59	4.414 n	1.397	51479	11.799	y	n
					11662	3.466	y	n

Run Text: MCCX2-1-AA Sample text: MCCX2-1-AA :G0L110441-2MB

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:3
Run: 14 File: 15DE109D5 S:14 Acq:15-DEC-10 19:21:47
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	1.512 of which	1.293 named and	0.219 unnamed
Conc:	3.024 of which	2.586 named and	0.438 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	34:17	2.562 n	1.584	53535	6.524	y	n
					20896	8.581	y	n
	2	35:05	2.813 n	0.438	15060	1.643	n	n
					5354	2.197	n	n
1,2,3,4,7,8,9-HpCDF	3	35:24	1.167 y	1.002	12415	1.657	n	n
					10638	3.941	y	n

Run Text: MCCX2-1-AA Sample text: MCCX2-1-AA :G0L110441-2MB

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:5
Run: 14 File: 15DE109D5 S:14 Acq:15-DEC-10 19:21:47

Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

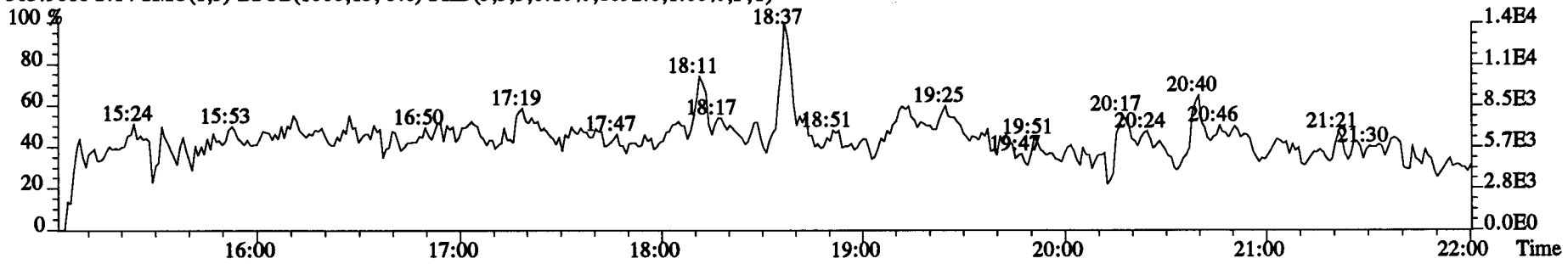
Amount:	4.306 of which	1.332 named and	2.974 unnamed
Conc:	8.612 of which	2.665 named and	5.947 unnamed

Name	#	R.T.	Ratio	Conc.		Area	S/N	>?	Mod?
	1	34:17	2.895 n	1.649		45805	13.449	y	n
						15823	6.538	y	n
	2	34:32	1.458 n	2.661	✓	37224	10.578	y	n
						25536	12.292	y	n
	3	34:38	1.924 n	0.306		5646	1.623	n	n
						2934	1.774	n	n
1,2,3,4,6,7,8-HpCDD	4	35:05	0.942 y	2.665	✓	25308	8.664	y	n
						26859	11.076	y	n
	5	35:24	3.187 n	1.331		40713	11.439	y	n
						12774	5.622	y	n

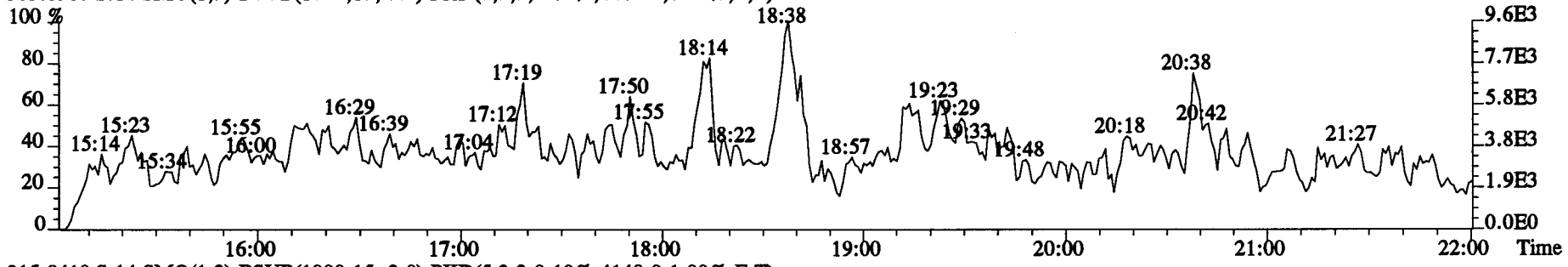
5.326

File:15DE109D5 #1-464 Acq:15-DEC-2010 19:21:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:MCCX2-1-AA :G0L110441-2MB Exp:DIOXINRES

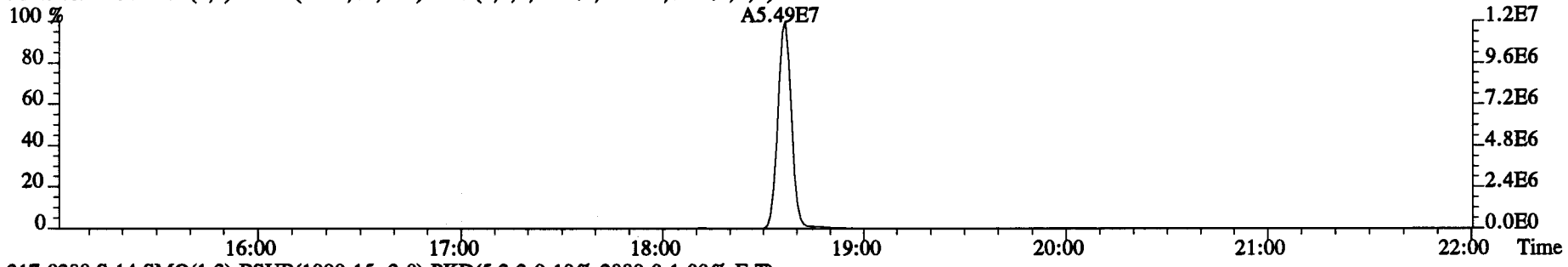
303.9016 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8092.0,1.00%,F,T)



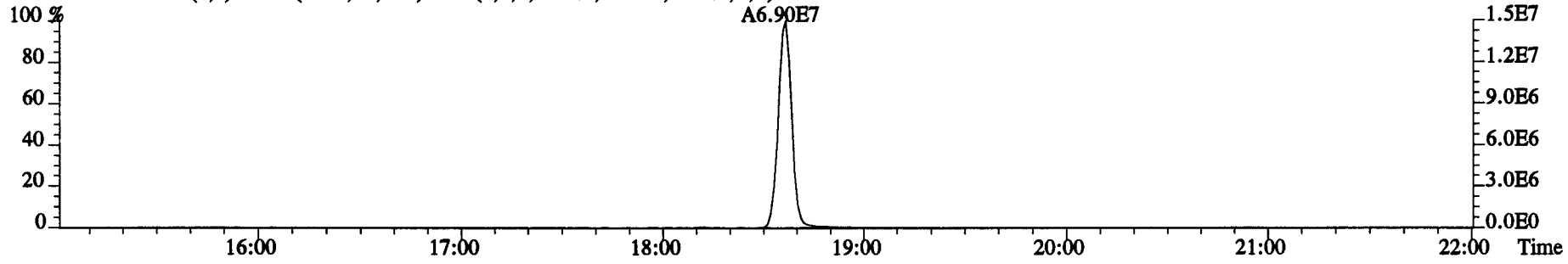
305.8987 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4412.0,1.00%,F,T)



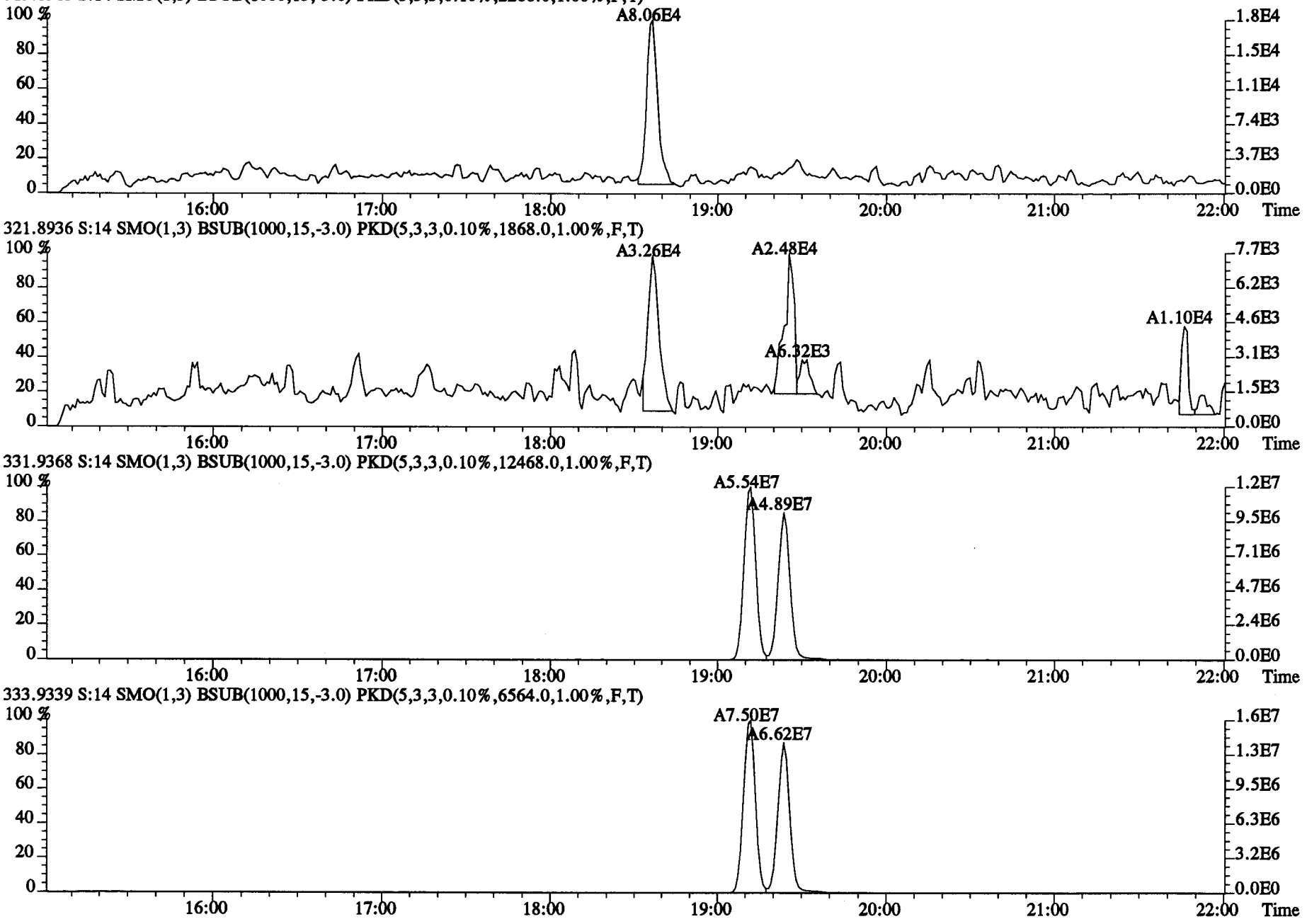
315.9419 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4148.0,1.00%,F,T)



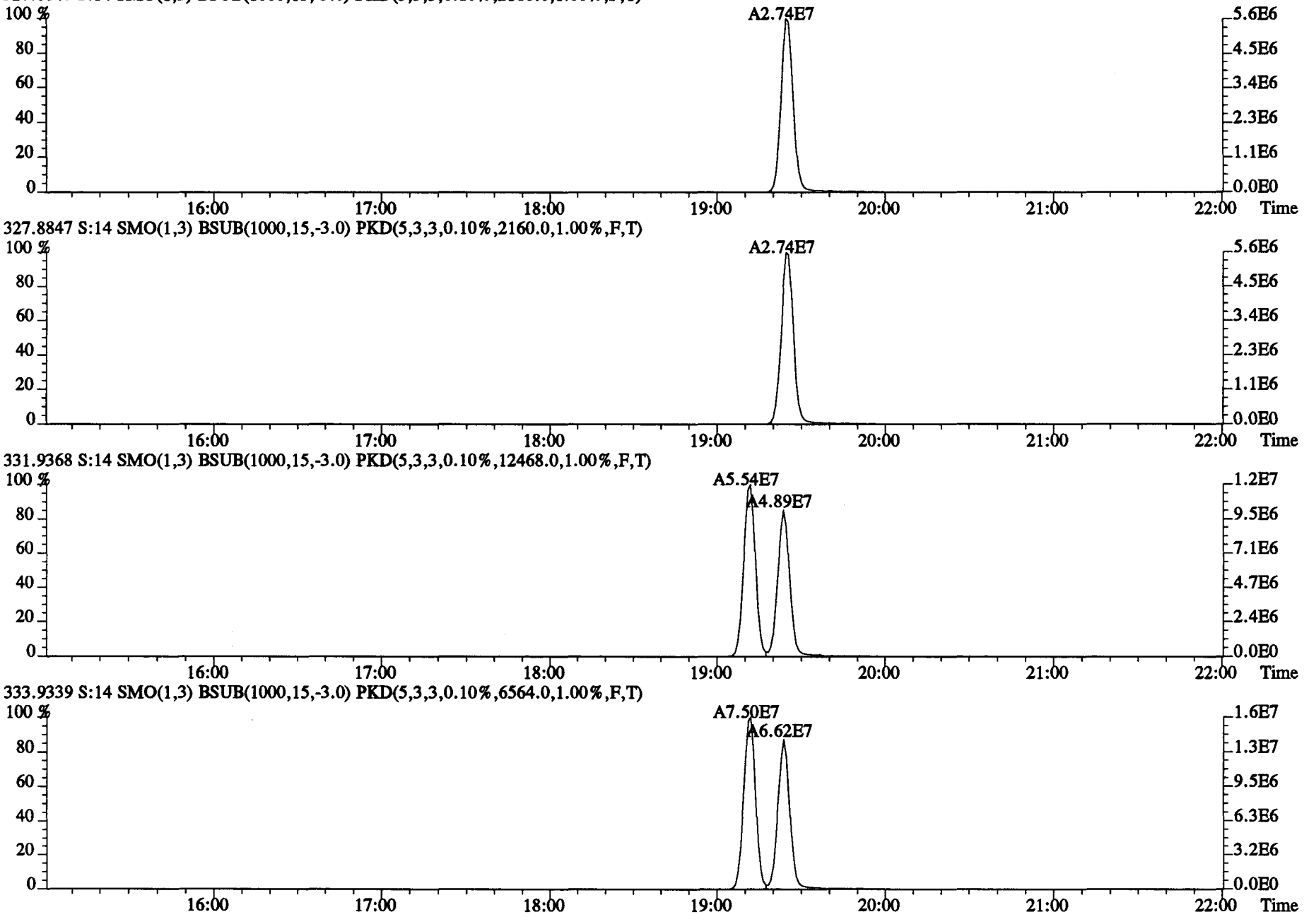
317.9389 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2880.0,1.00%,F,T)



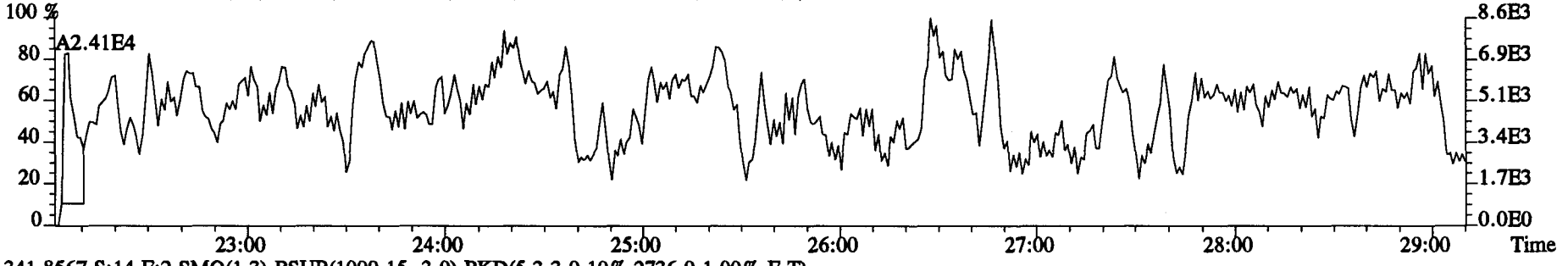
File:15DE109D5 #1-464 Acq:15-DEC-2010 19:21:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:MCCX2-1-AA :G0L110441-2MB Exp:DIOXINRES



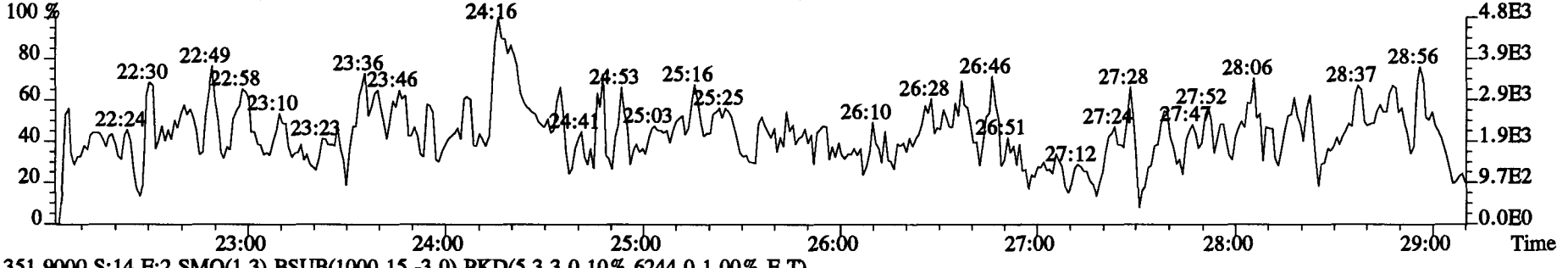
File:15DE109D5 #1-464 Acq:15-DEC-2010 19:21:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:MCCX2-1-AA :G0L110441-2MB Exp:DIOXINRES



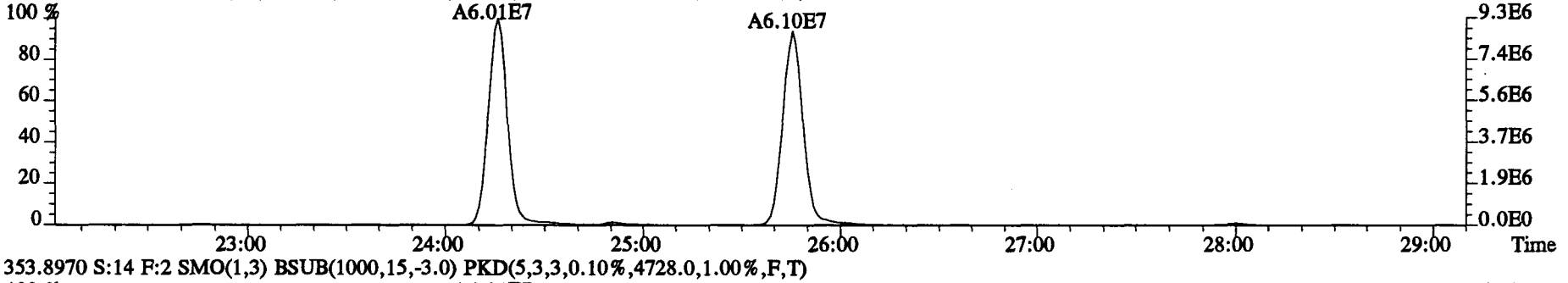
File:15DE109D5 #1-459 Acq:15-DEC-2010 19:21:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:MCCX2-1-AA :G0L110441-2MB Exp:DIOXINRES
339.8597 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6356.0,1.00%,F,T)



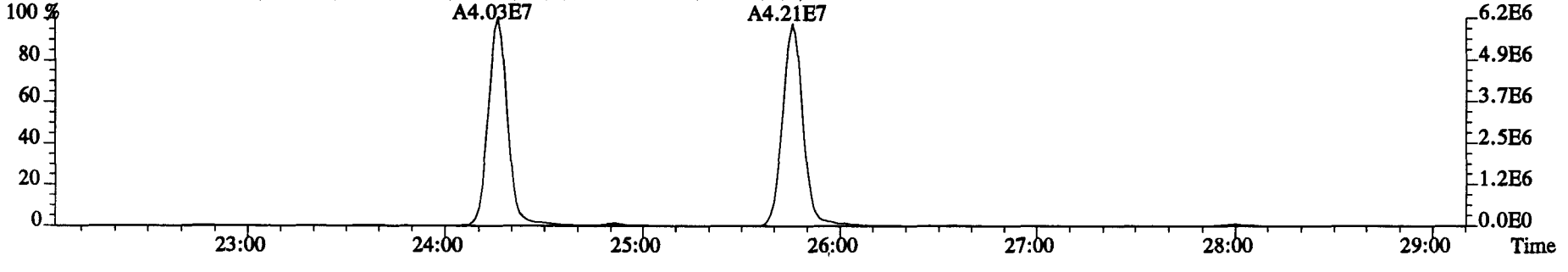
341.8567 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2736.0,1.00%,F,T)



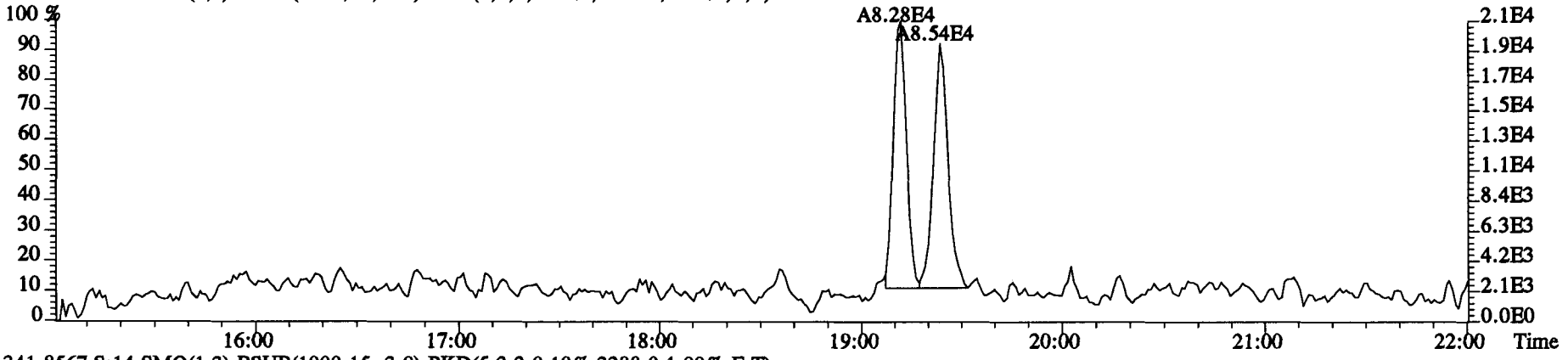
351.9000 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6244.0,1.00%,F,T)



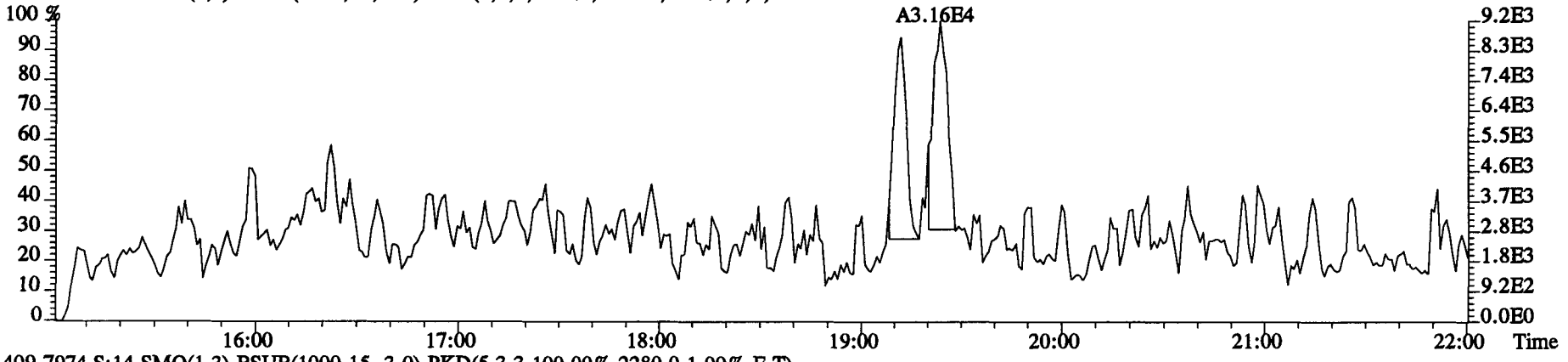
353.8970 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4728.0,1.00%,F,T)



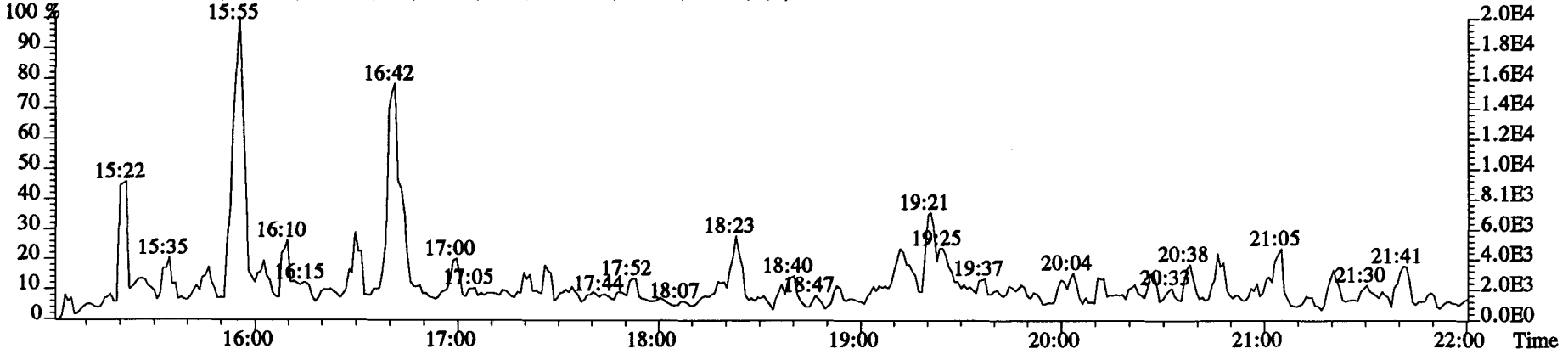
File:15DE109D5 #1-464 Acq:15-DEC-2010 19:21:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:MCCX2-1-AA :G0L110441-2MB Exp:DIOXINRES
339.8597 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2816.0,1.00%,F,T)



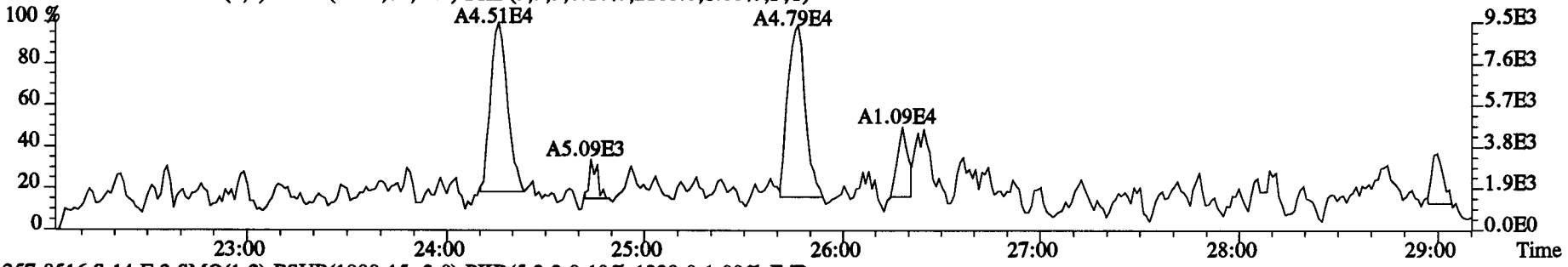
341.8567 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3288.0,1.00%,F,T)



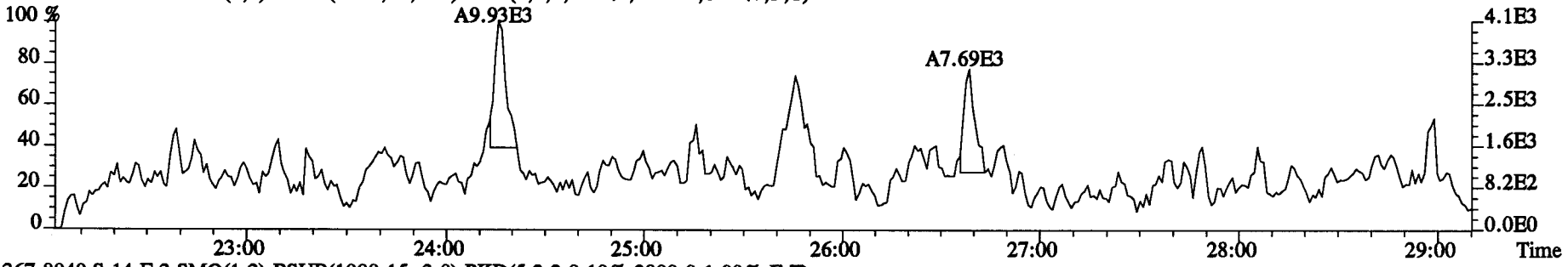
409.7974 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2280.0,1.00%,F,T)



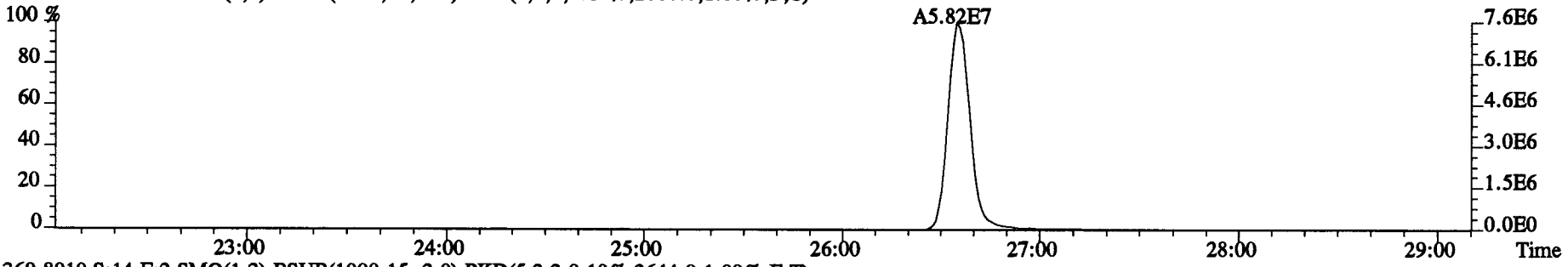
File:15DE109D5 #1-459 Acq:15-DEC-2010 19:21:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:MCCX2-1-AA :G0L110441-2MB Exp:DIOXINRES
355.8546 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2160.0,1.00%,F,T)



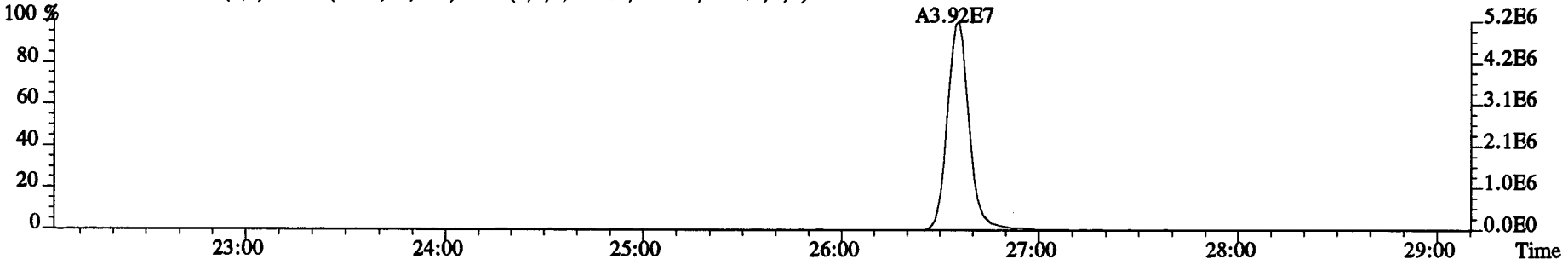
357.8516 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1328.0,1.00%,F,T)



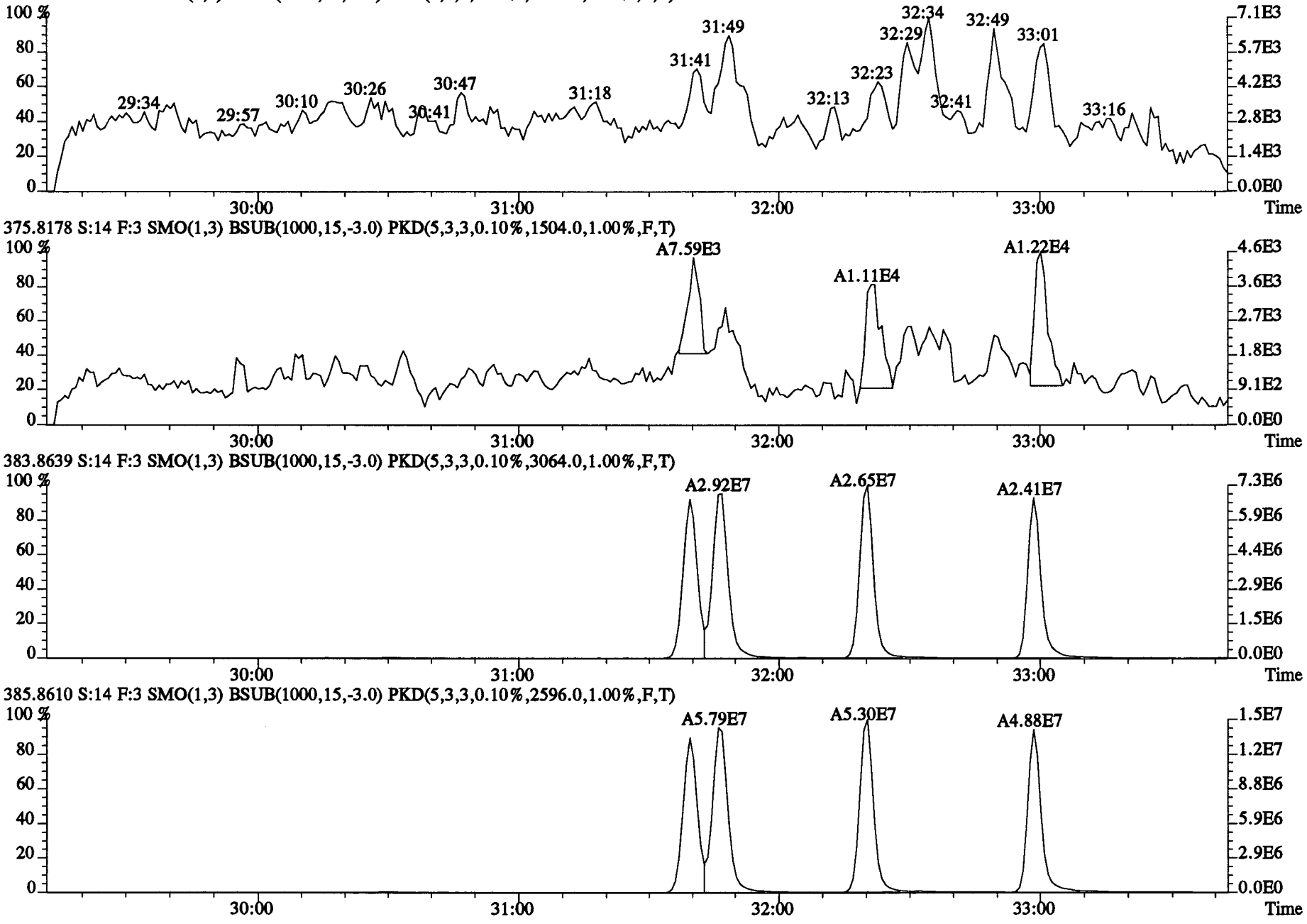
367.8949 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2800.0,1.00%,F,T)



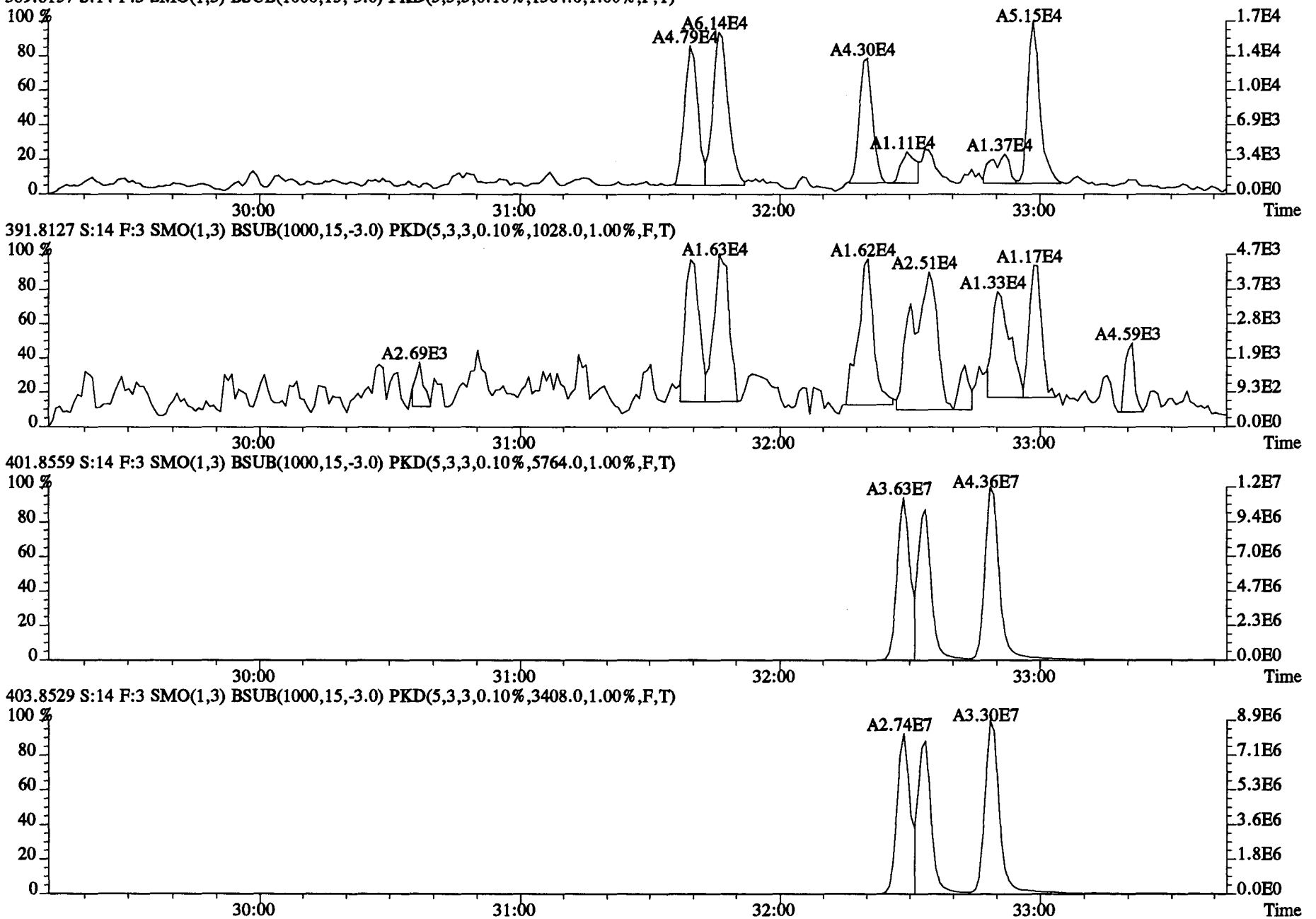
369.8919 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2644.0,1.00%,F,T)



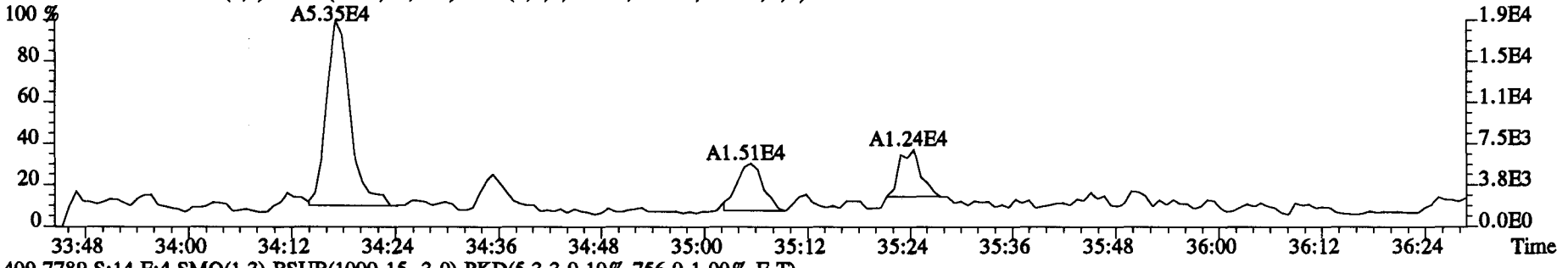
File:15DE109D5 #1-326 Acq:15-DEC-2010 19:21:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:MCCX2-1-AA :G0L110441-2MB Exp:DIOXINRES



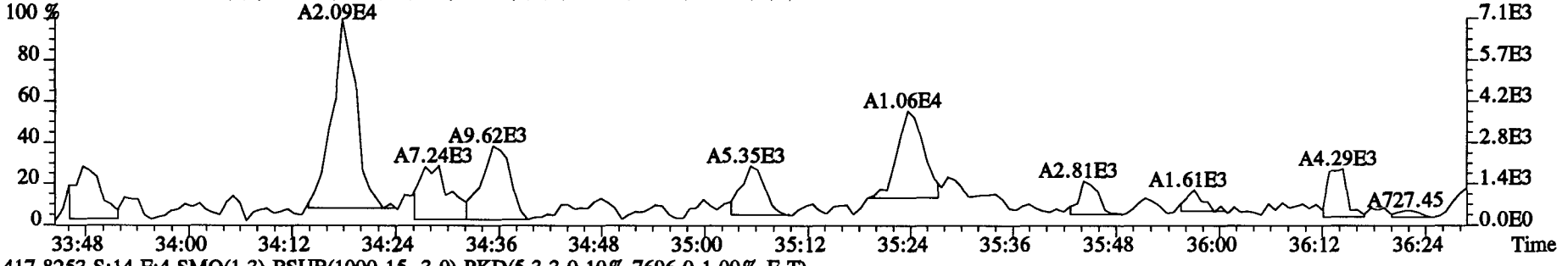
File:15DE109D5 #1-326 Acq:15-DEC-2010 19:21:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:MCCX2-1-AA :G0L110441-2MB Exp:DIOXINRES



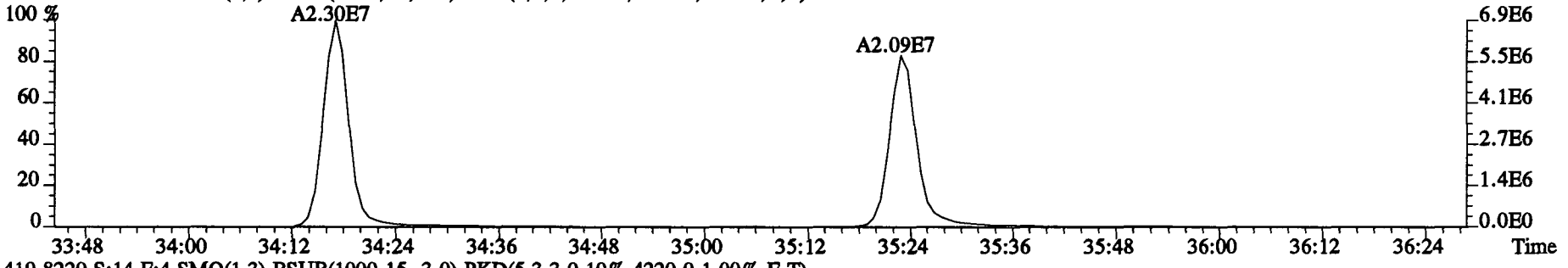
File:15DE109D5 #1-208 Acq:15-DEC-2010 19:21:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:MCCX2-1-AA :G0L110441-2MB Exp:DIOXINRES
407.7818 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2592.0,1.00%,F,T)



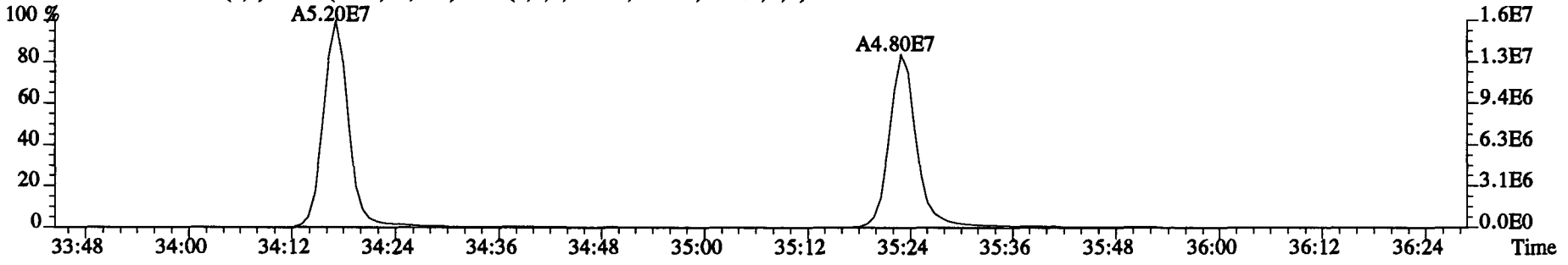
409.7789 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,756.0,1.00%,F,T)



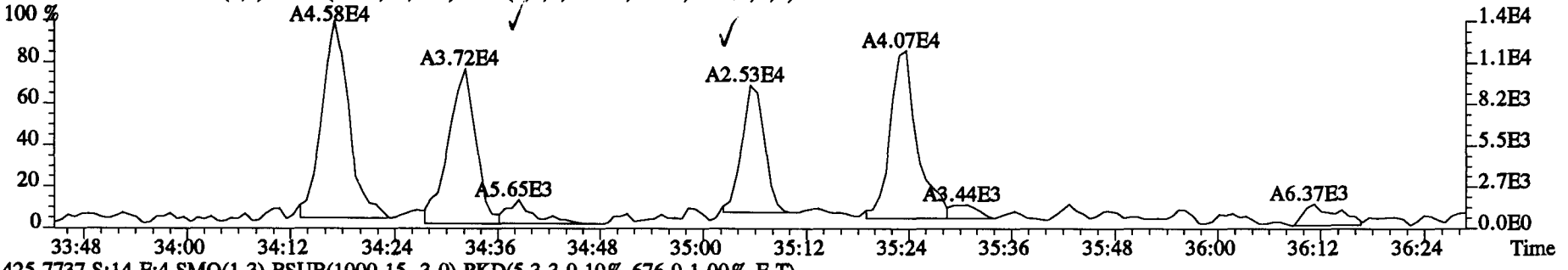
417.8253 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7696.0,1.00%,F,T)



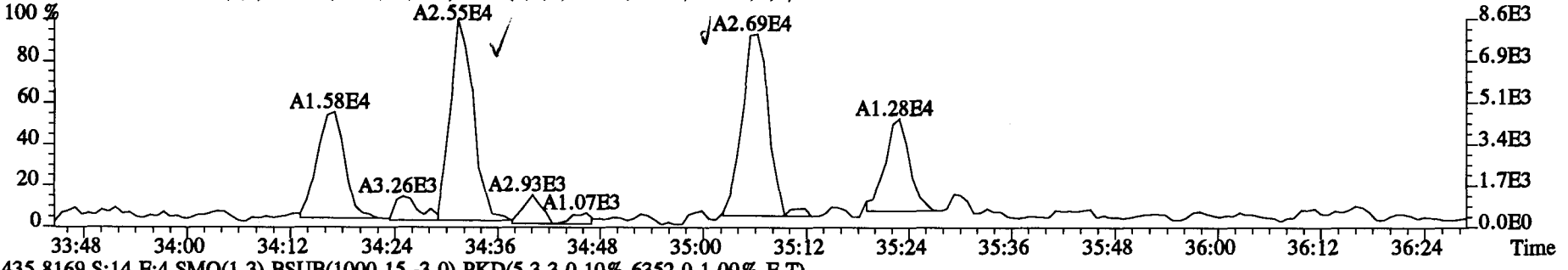
419.8220 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4220.0,1.00%,F,T)



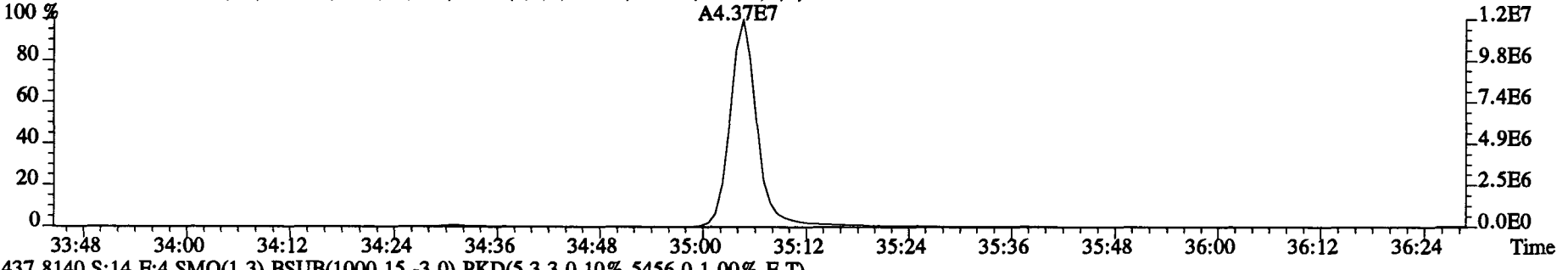
File:15DE109D5 #1-208 Acq:15-DEC-2010 19:21:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:MCCX2-1-AA :G0L110441-2MB Exp:DIOXINRES
423.7766 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,968.0,1.00%,F,T)



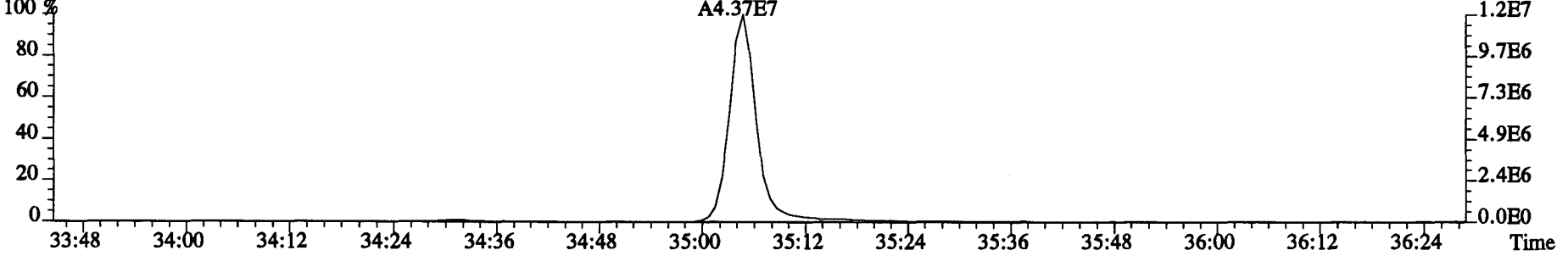
425.7737 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,676.0,1.00%,F,T)



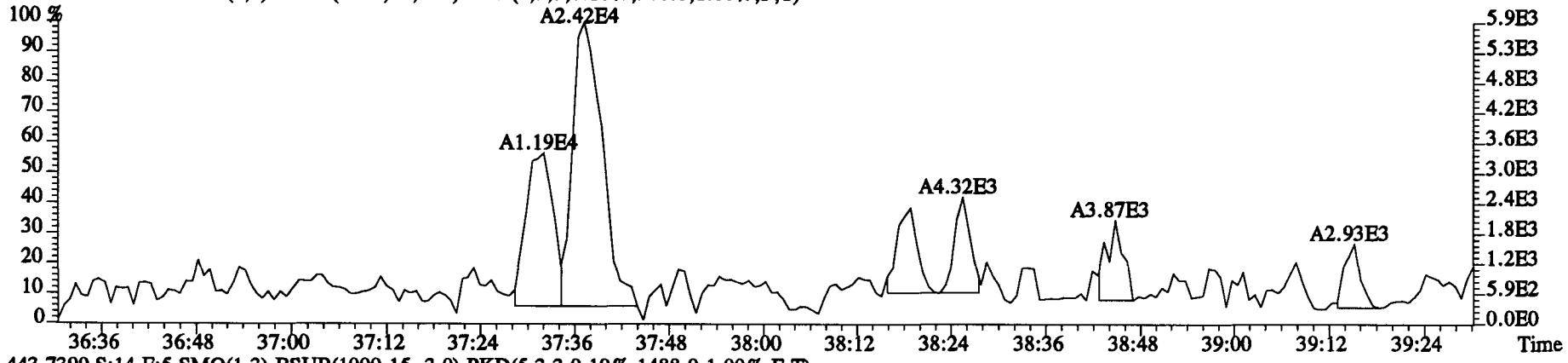
435.8169 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6352.0,1.00%,F,T)



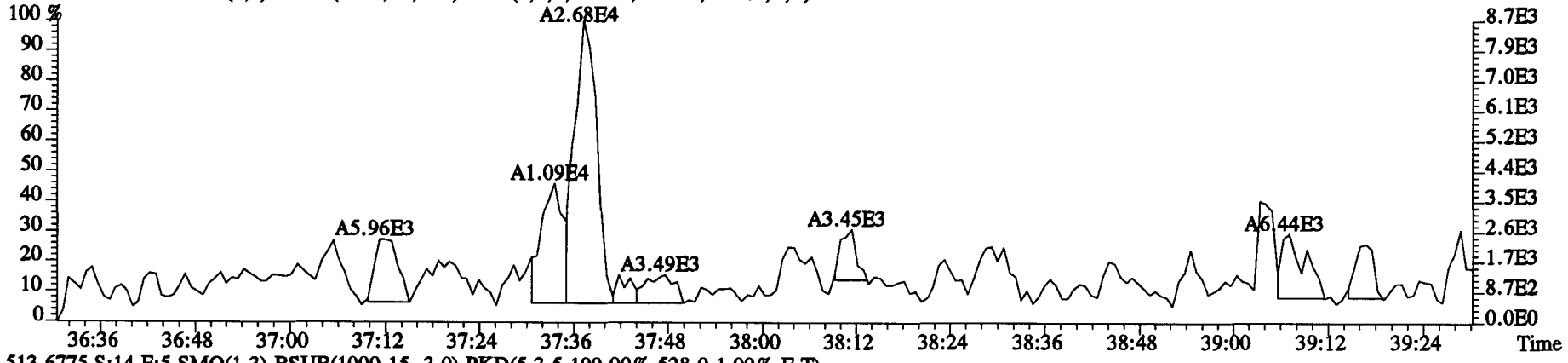
437.8140 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5456.0,1.00%,F,T)



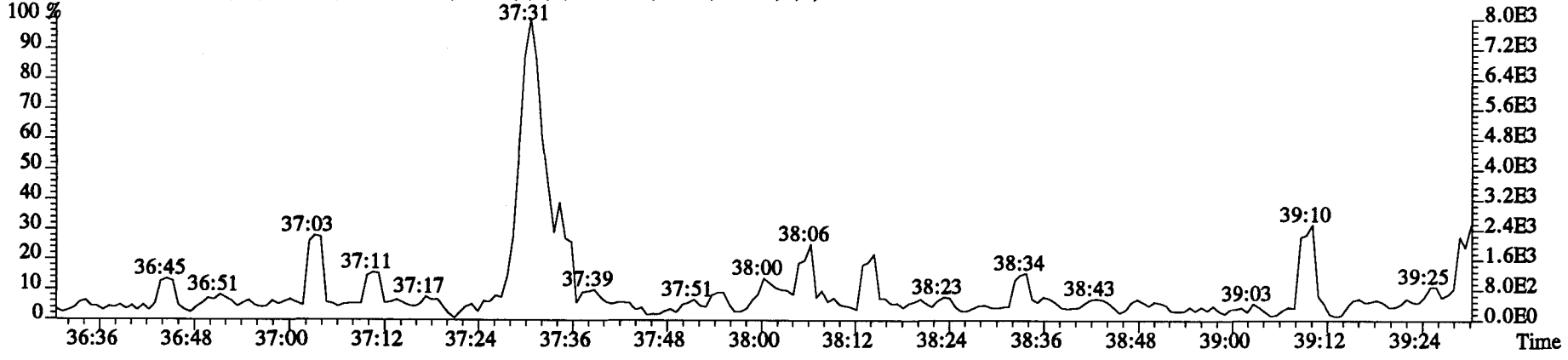
File:15DE109D5 #1-243 Acq:15-DEC-2010 19:21:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:MCCX2-1-AA :G0L110441-2MB Exp:DIOXINRES
441.7428 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,908.0,1.00%,F,T)



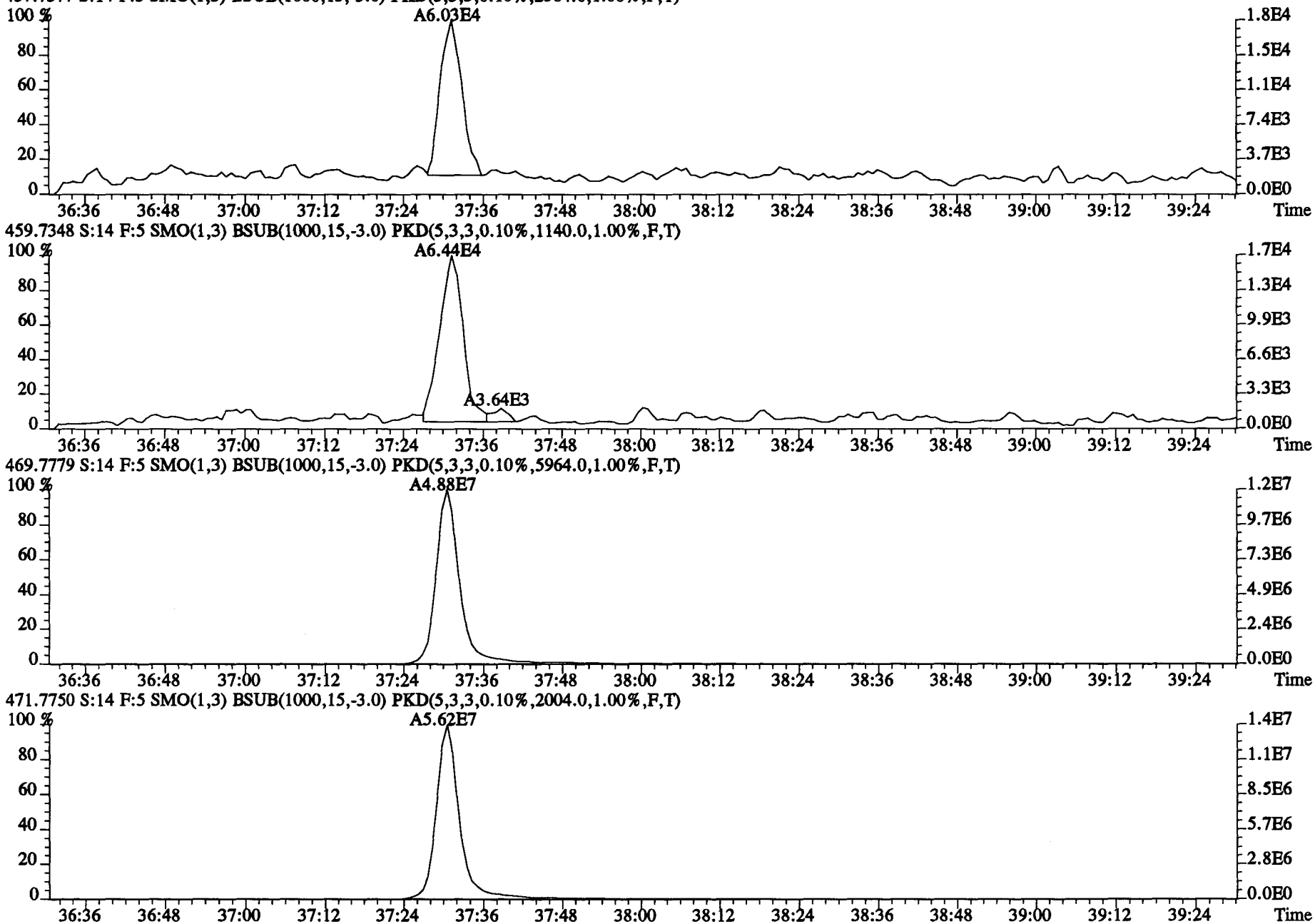
443.7399 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1488.0,1.00%,F,T)



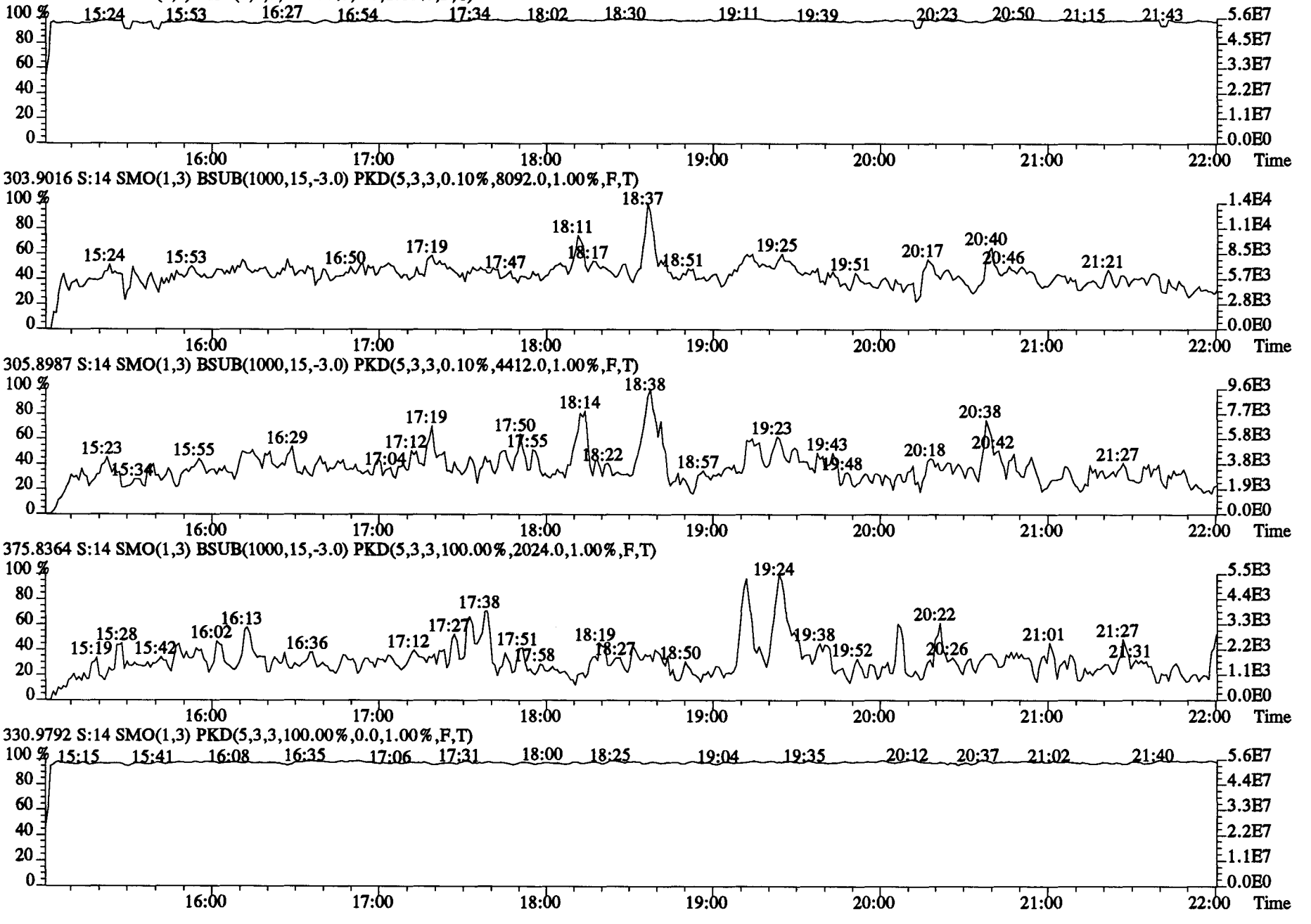
513.6775 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,528.0,1.00%,F,T)



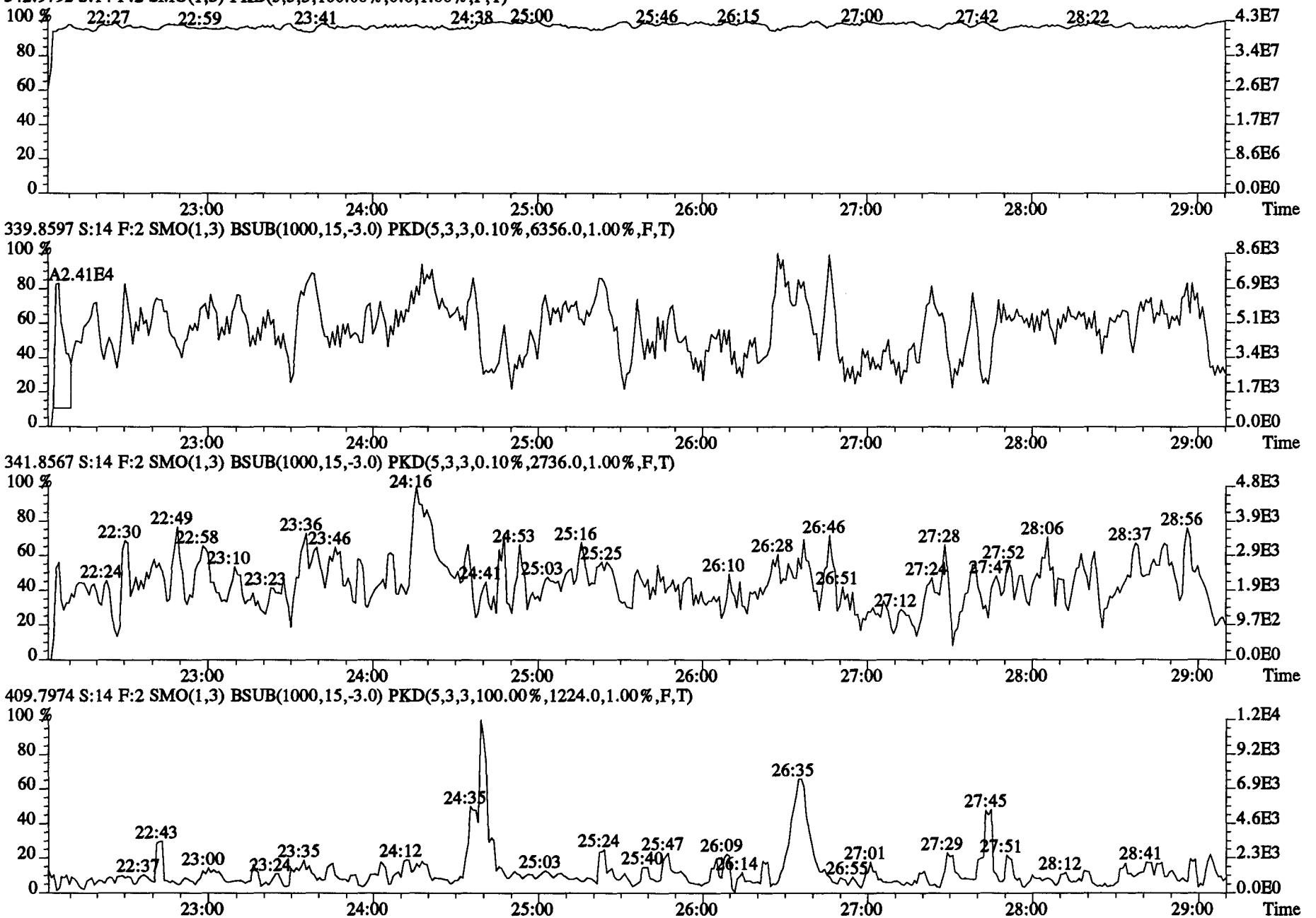
File:15DE109D5 #1-243 Acq:15-DEC-2010 19:21:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:MCCX2-1-AA :G0L110441-2MB Exp:DIOXINRES



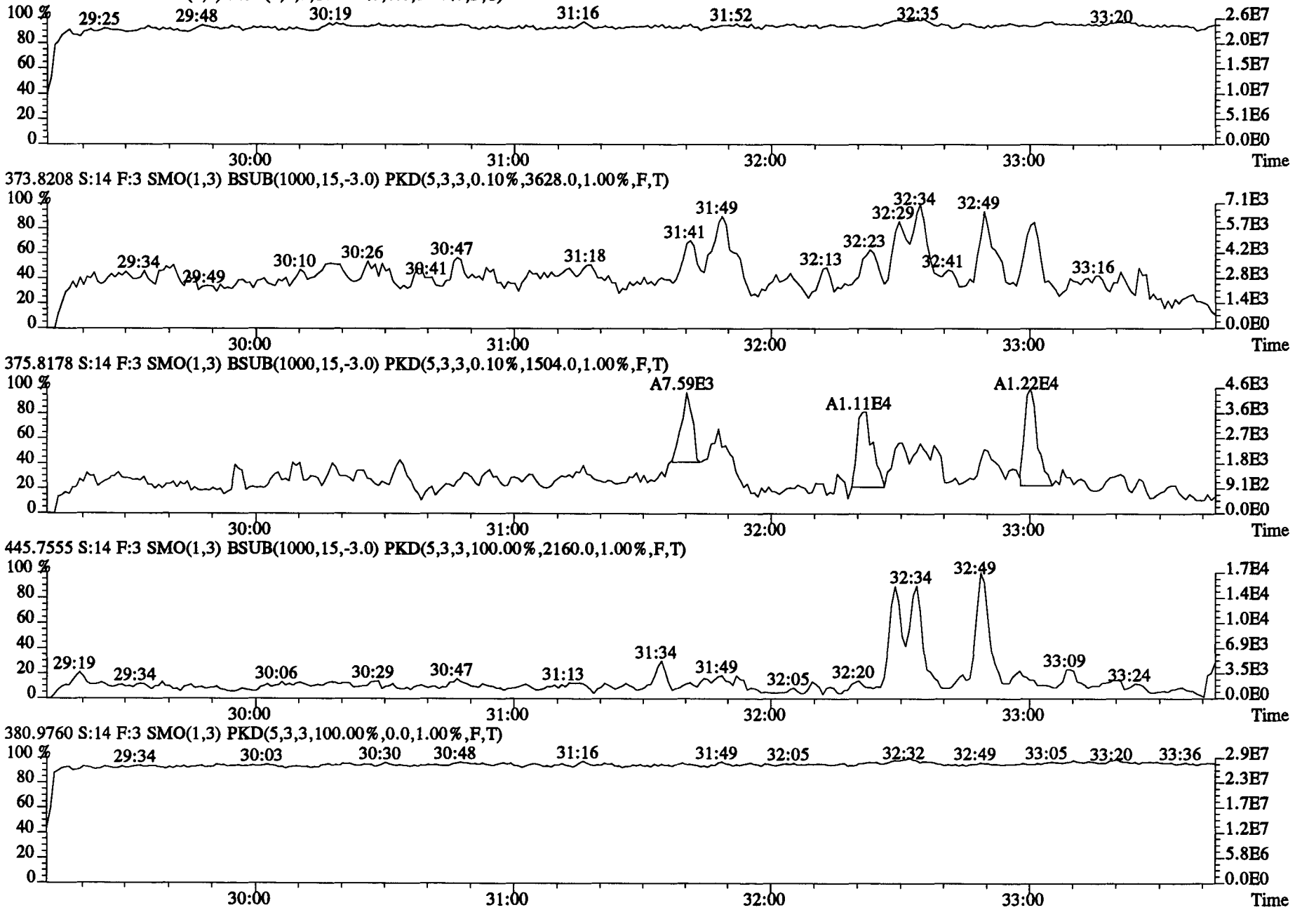
File:15DE109D5 #1-464 Acq:15-DEC-2010 19:21:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:MCCX2-1-AA :G0L110441-2MB Exp:DIOXINRES



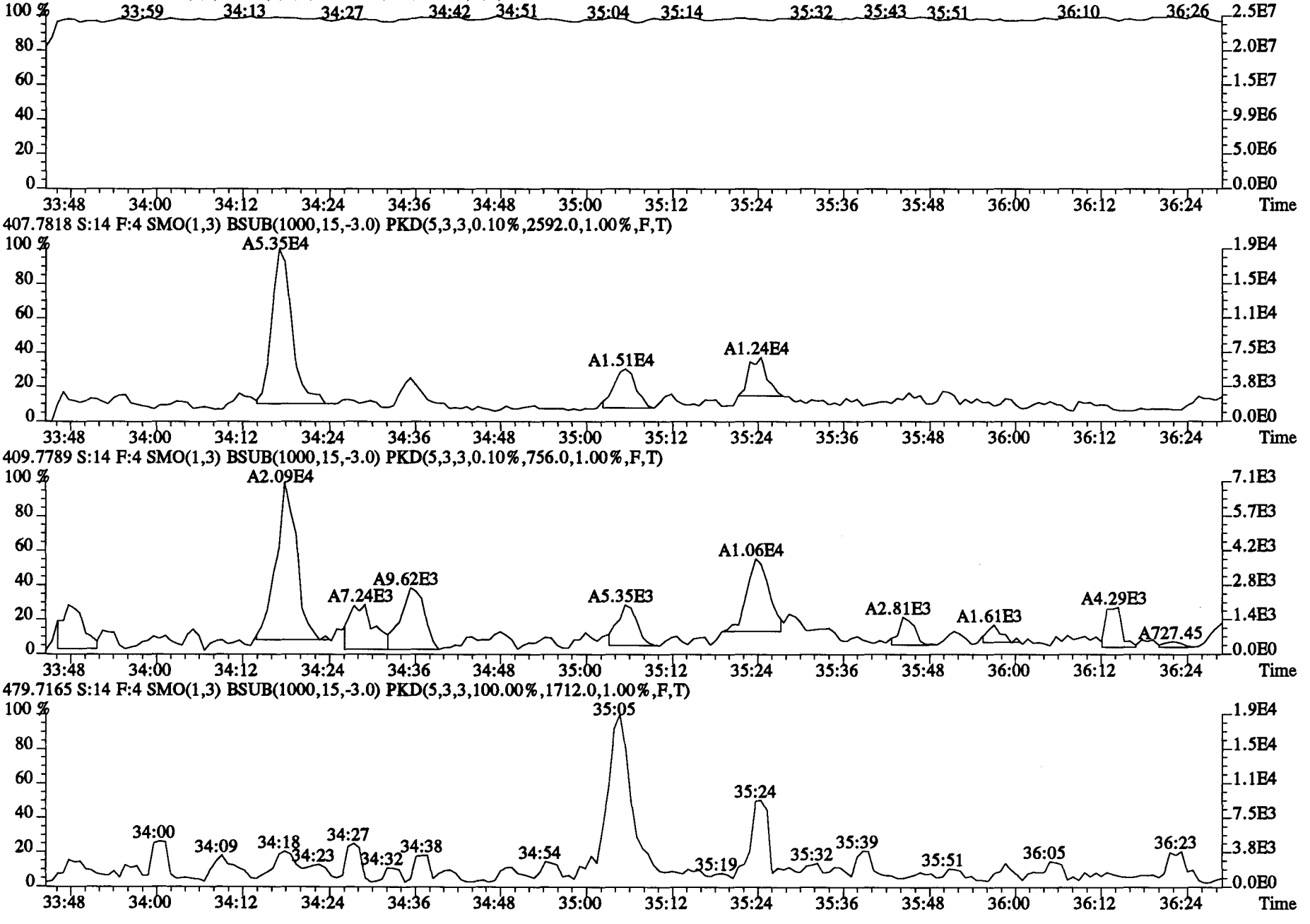
File:15DE109D5 #1-459 Acq:15-DEC-2010 19:21:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:MCCX2-1-AA :G0L110441-2MB Exp:DIOXINRES



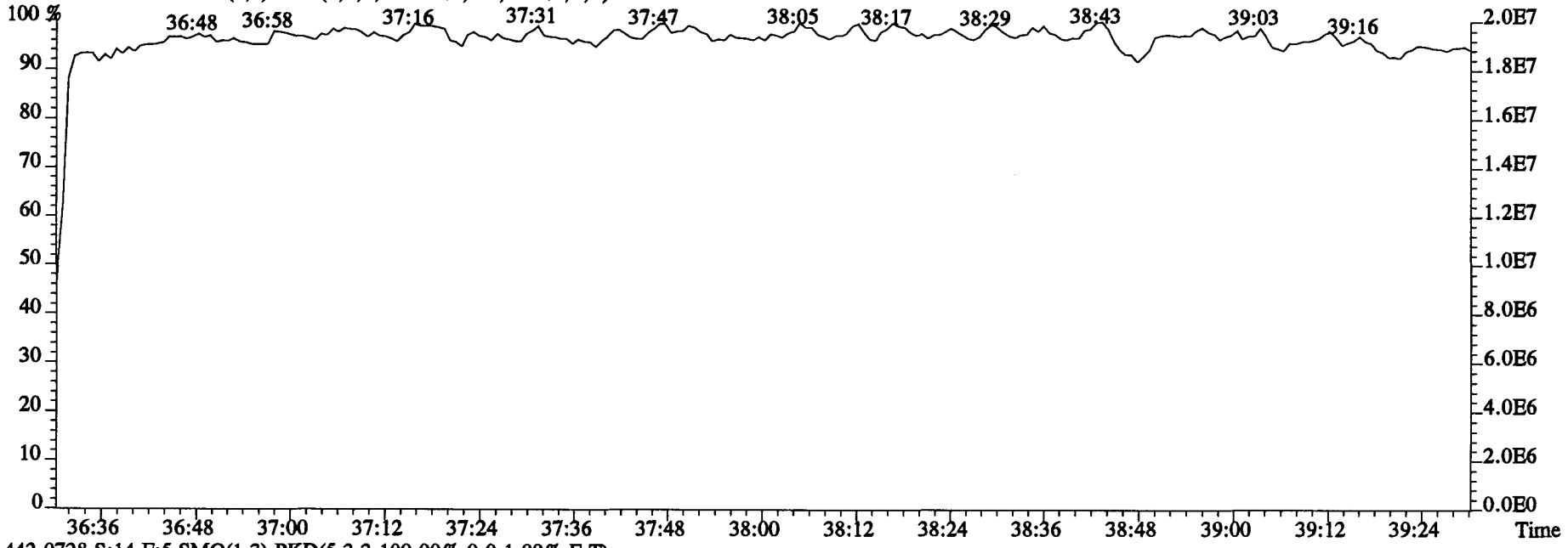
File:15DE109D5 #1-326 Acq:15-DEC-2010 19:21:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:MCCX2-1-AA :G0L110441-2MB Exp:DIOXINRES



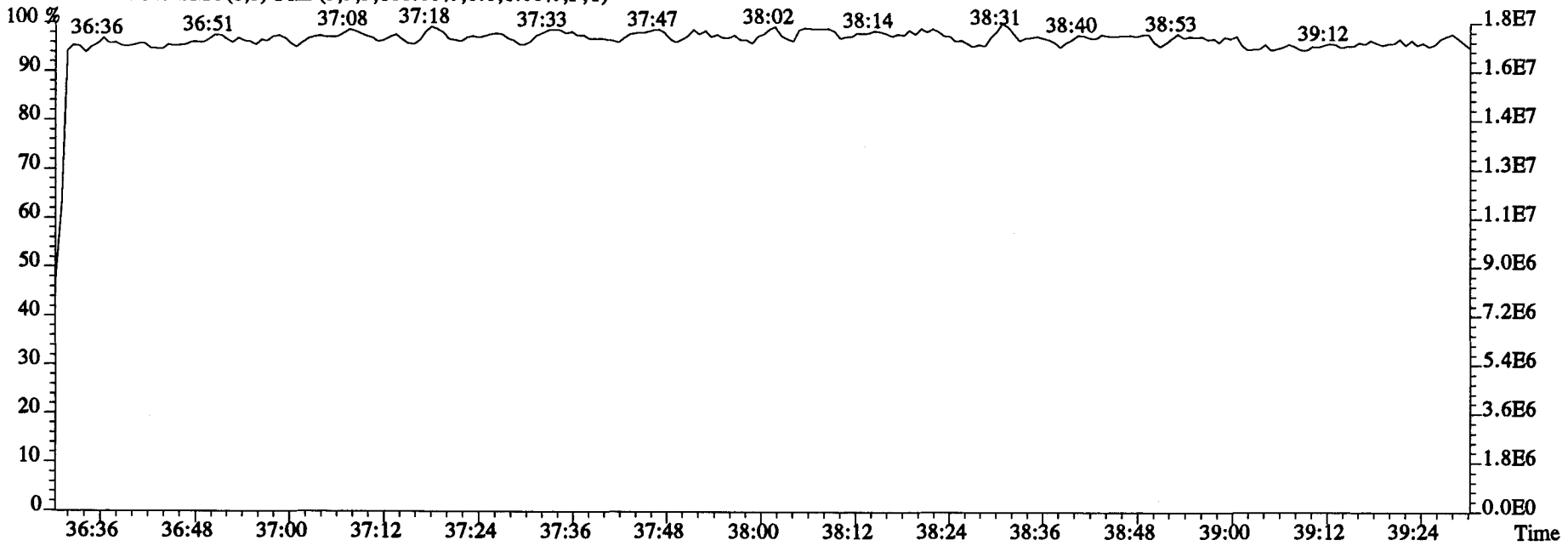
File:15DE109D5 #1-208 Acq:15-DEC-2010 19:21:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:MCCX2-1-AA :G0L110441-2MB Exp:DIOXINRES



File:15DE109D5 #1-243 Acq:15-DEC-2010 19:21:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:MCCX2-1-AA :G0L110441-2MB 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)



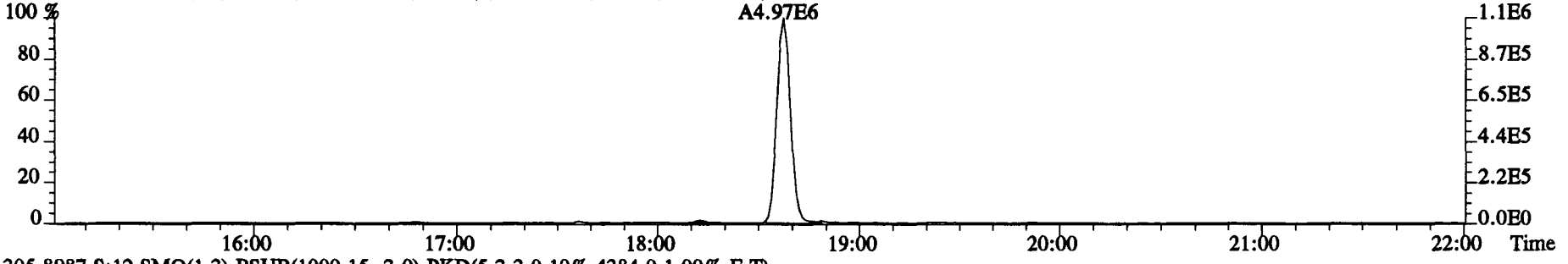
Run text: MCCX2-1-AC Sample text: MCCX2-1-AC :G0L110441-2LCS
Run #12 Filename: 15DE109D5 S: 12 I: 1 Results: 15DE109D5TO9
Acquired: 15-DEC-10 17:54:22 Processed: 16-DEC-10 10:01:02
Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5
Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

12/16/10

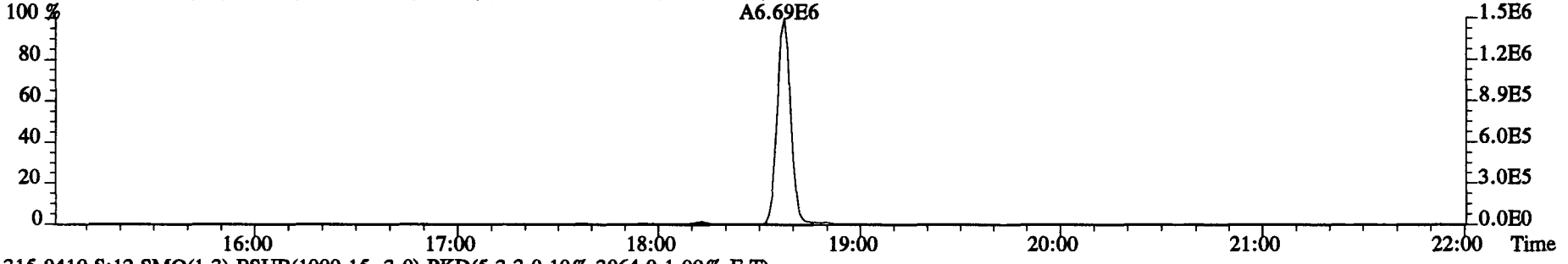
Name	Resp	RA		RT	RRF	Conc		EDL	Rec	M
13C-1,2,3,4-TCDD	126376600	0.75	y	19:12	-	160.175		-	-	n
13C-2,3,7,8-TCDF	125489800	0.80	y	18:37	1.11	3565.575		3.004	89.1	n
2,3,7,8-TCDF	11666610	0.74	y	18:37	0.88	421.190	/	5.955	-	n
Total TCDF	11759342	0.45	n	18:13	0.88	424.538		5.955	-	n
13C-2,3,7,8-TCDD	114426500	0.75	y	19:24	0.97	3726.177		8.419	93.2	n
2,3,7,8-TCDD	10107770	0.80	y	19:25	0.87	405.409	/	2.498	-	n
Total TCDD	10145394	3.87	n	18:37	0.87	406.919		2.498	-	n
37Cl-2,3,7,8-TCDD	164186	1.00	y	19:25	1.22	4.691		1.641	0.3	n
13C-1,2,3,7,8-PeCDF	103811600	1.48	y	24:16	0.92	3567.563		5.294	89.2	n
1,2,3,7,8-PeCDF	58666700	1.52	y	24:18	1.06	2123.359	/	7.789	-	n
2,3,4,7,8-PeCDF	55674100	1.52	y	25:47	1.03	2087.670	/	8.070	-	n
Total F2 PeCDF	115230996	1.64	y	22:43	1.05	4243.818		7.927	-	n
Total F1 PeCDF	122124	2.57	n	19:12	1.05	4.498		4.469	-	n
13C-1,2,3,7,8-PeCDD	99940300	1.50	y	26:36	0.83	3813.916	/	3.173	95.3	n
1,2,3,7,8-PeCDD	39217600	1.46	y	26:38	0.79	1979.143	/	5.594	-	n
Total PeCDD	39332952	2.85	n	24:17	0.79	1984.964		5.594	-	n
13C-1,2,3,7,8,9-HxCDD	80425700	1.30	y	32:49	-	156.731		-	-	n
13C-1,2,3,4,7,8-HxCDF	75797900	0.48	y	31:39	1.07	3516.145		3.708	87.9	n
1,2,3,4,7,8-HxCDF	41149700	1.14	y	31:40	1.06	2043.286	/	4.609	-	n
1,2,3,6,7,8-HxCDF	44821100	1.18	y	31:48	1.12	2108.873	/	4.367	-	n
2,3,4,6,7,8-HxCDF	42555400	1.17	y	32:21	1.05	2142.486	/	4.673	-	n
1,2,3,7,8,9-HxCDF	38899500	1.18	y	32:59	0.95	2155.076	/	5.142	-	n
Total HxCDF	167521751	1.18	y	30:33	1.05	8454.564		4.681	-	n
13C-1,2,3,6,7,8-HxCDD	67932700	1.33	y	32:34	0.89	3804.522	/	6.502	95.1	n
1,2,3,4,7,8-HxCDD	36767800	1.15	y	32:29	1.11	1944.079	/	1.619	-	n
1,2,3,6,7,8-HxCDD	40008400	1.19	y	32:34	1.16	2032.051	/	1.556	-	n
1,2,3,7,8,9-HxCDD	41814900	1.17	y	32:50	1.20	2048.972	/	1.501	-	n
Total HxCDD	118591100	1.15	y	32:29	1.16	6025.102		1.557	-	n
13C-1,2,3,4,6,7,8-HpCDF	76803300	0.44	y	34:17	0.95	4029.019	/	9.793	100.7	n
1,2,3,4,6,7,8-HpCDF	56330000	1.04	y	34:18	1.44	2044.075	/	4.310	-	n
1,2,3,4,7,8,9-HpCDF	48806900	1.03	y	35:24	1.23	2072.215	/	5.043	-	n
Total HpCDF	105638715	1.04	y	34:18	1.33	4135.927		4.648	-	n
13C-1,2,3,4,6,7,8-HpCDD	87181500	0.97	y	35:05	1.08	4032.213	/	8.286	100.8	n
1,2,3,4,6,7,8-HpCDD	40325600	1.03	y	35:05	0.90	2066.547		4.201	-	n
Total HpCDD	40660395	1.06	y	34:32	0.90	2083.704		4.201	-	n
13C-OCDD	108294600	0.86	y	37:31	0.69	7807.602	/	4.195	97.6	n
OCDF	61981300	0.87	y	37:37	1.18	3880.224	/	3.540	-	n
OCDD	61939300	0.91	y	37:31	1.14	4018.819	/	4.790	-	n

File:15DE109D5 #1-464 Acq:15-DEC-2010 17:54:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MCCX2-1-AC :G0L110441-2LCS Exp:DIOXINRES

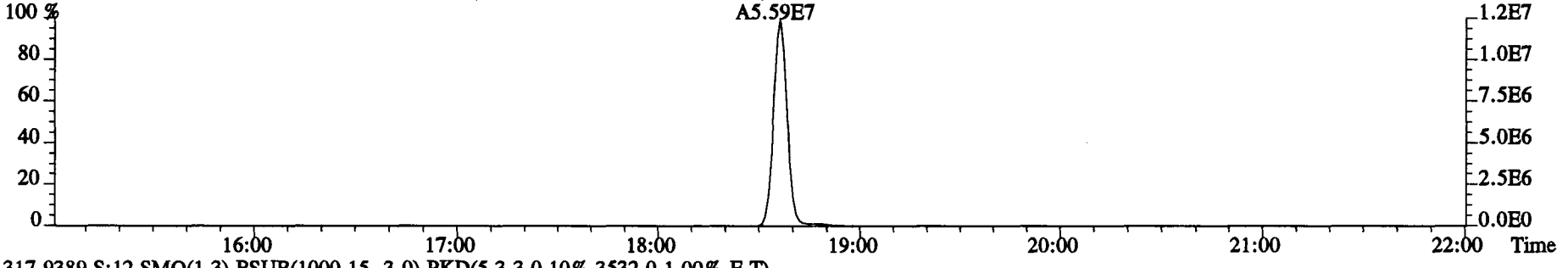
303.9016 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7832.0,1.00%,F,T)



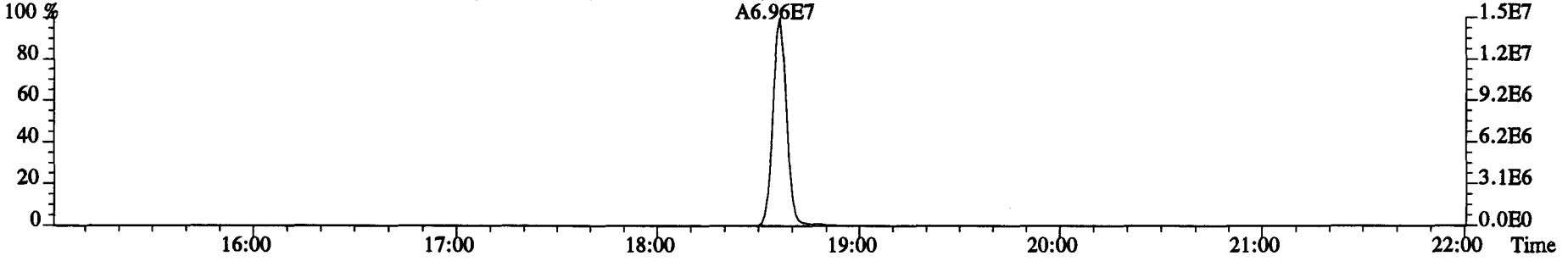
305.8987 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4384.0,1.00%,F,T)



315.9419 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3964.0,1.00%,F,T)

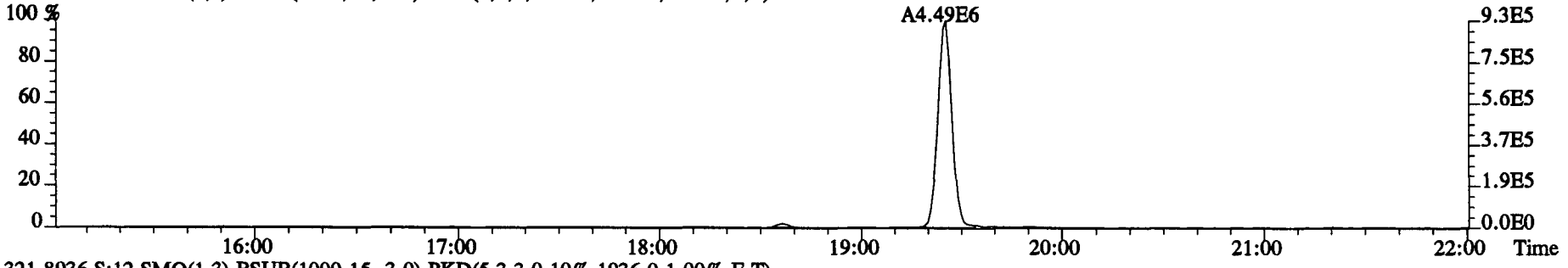


317.9389 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3532.0,1.00%,F,T)

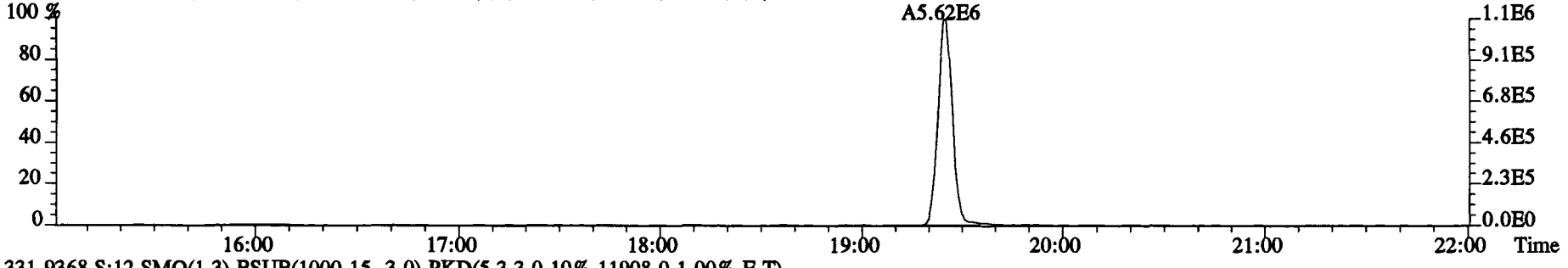


File:15DE109D5 #1-464 Acq:15-DEC-2010 17:54:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MCCX2-1-AC :G0L110441-2LCS Exp:DIOXINRES

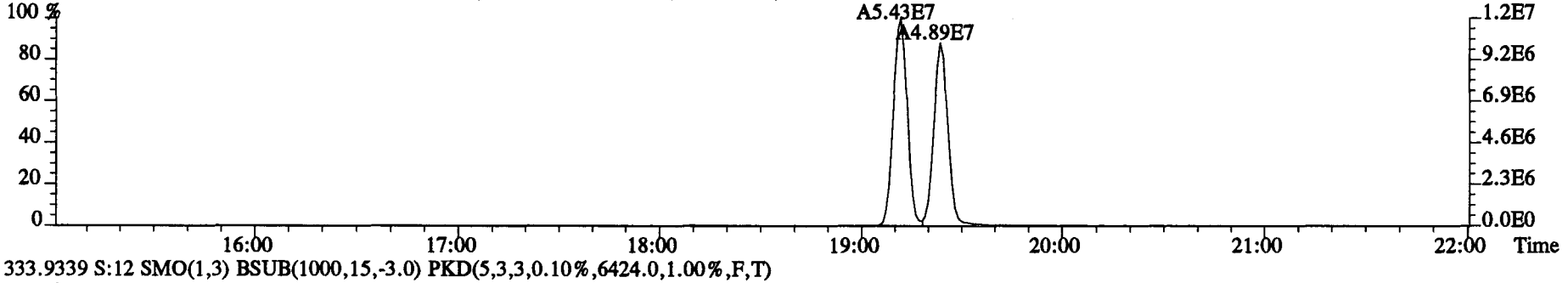
319.8965 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2324.0,1.00%,F,T)



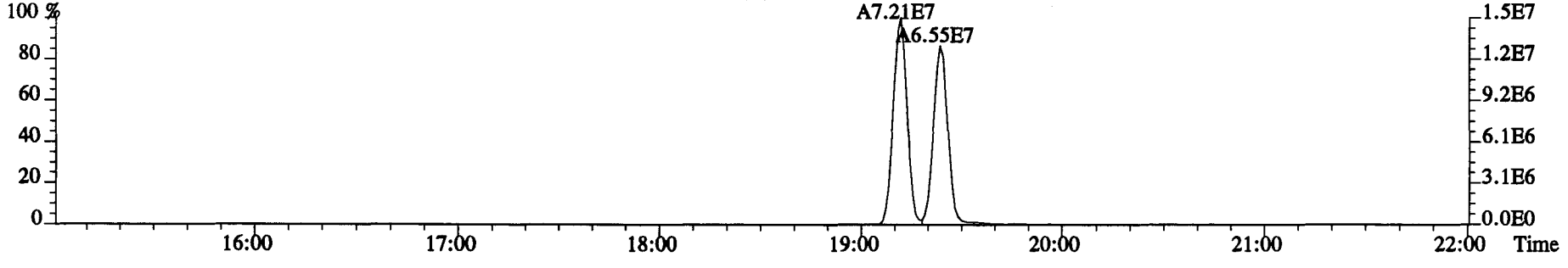
321.8936 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1936.0,1.00%,F,T)



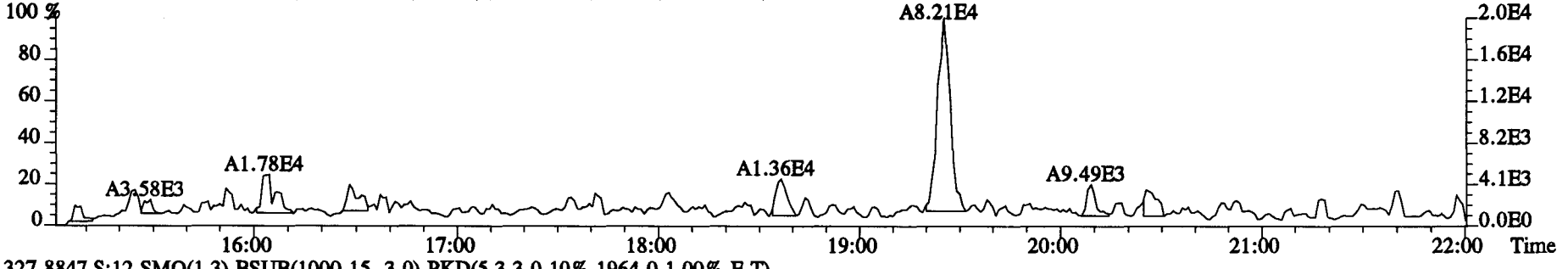
331.9368 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11908.0,1.00%,F,T)



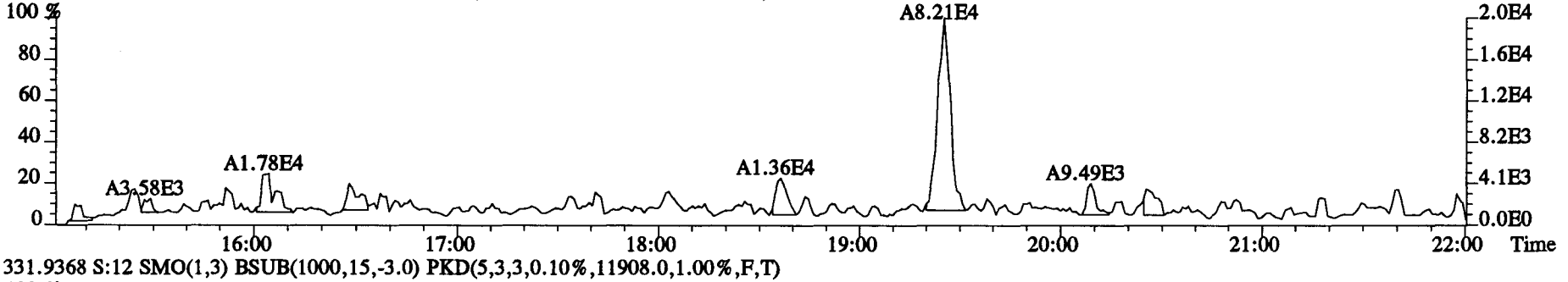
333.9339 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6424.0,1.00%,F,T)



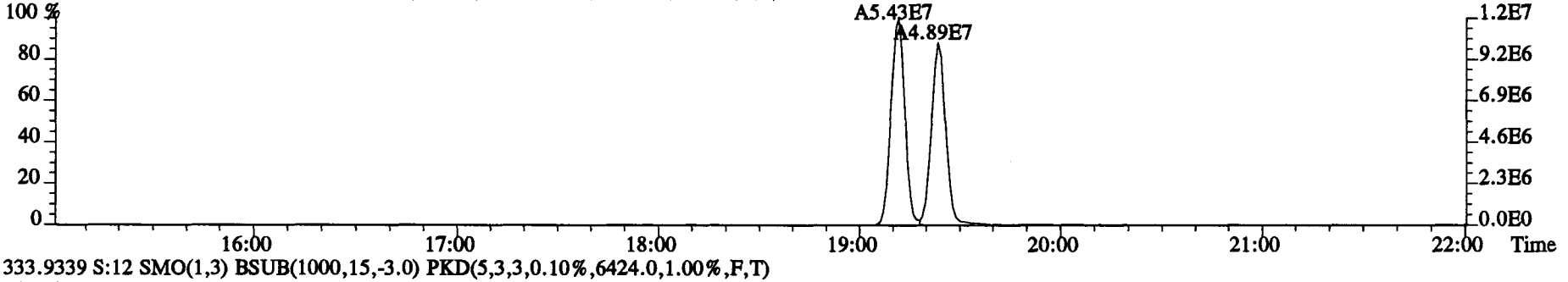
File:15DE109D5 #1-464 Acq:15-DEC-2010 17:54:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MCCX2-1-AC :G0L110441-2LCS Exp:DIOXINRES
327.8847 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1964.0,1.00%,F,T)



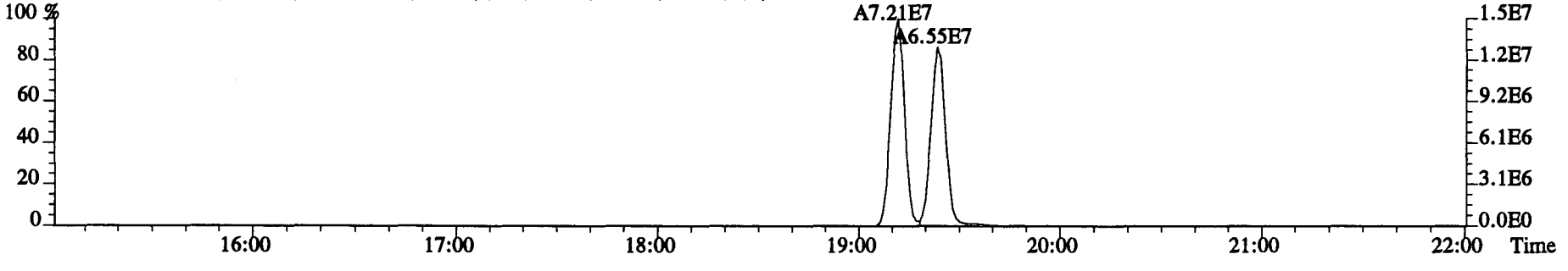
327.8847 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1964.0,1.00%,F,T)



331.9368 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11908.0,1.00%,F,T)

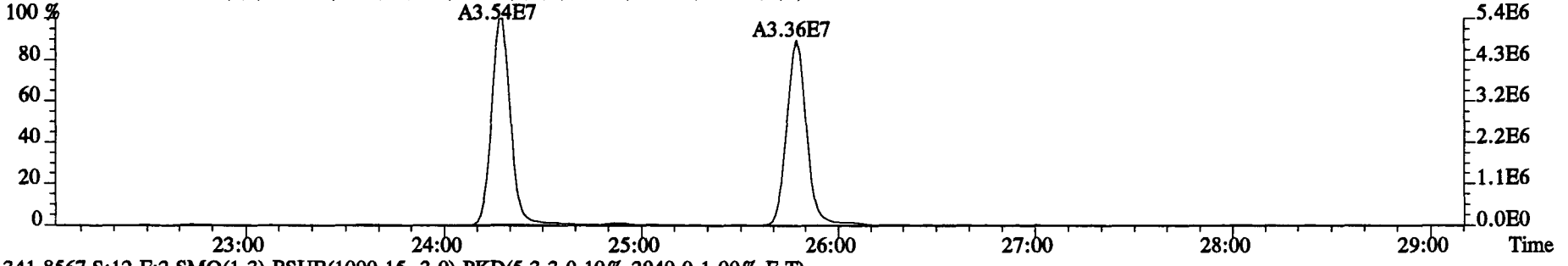


333.9339 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6424.0,1.00%,F,T)

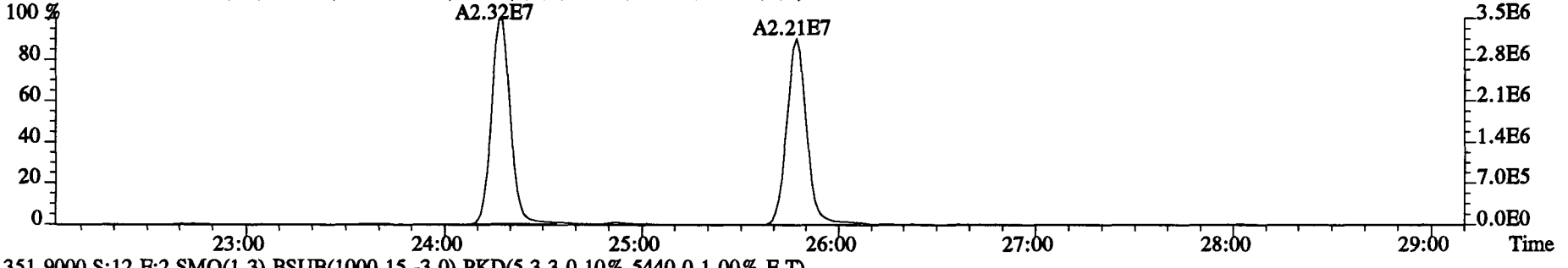


File:15DE109D5 #1-459 Acq:15-DEC-2010 17:54:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MCCX2-1-AC :G0L110441-2LCS Exp:DIOXINRES

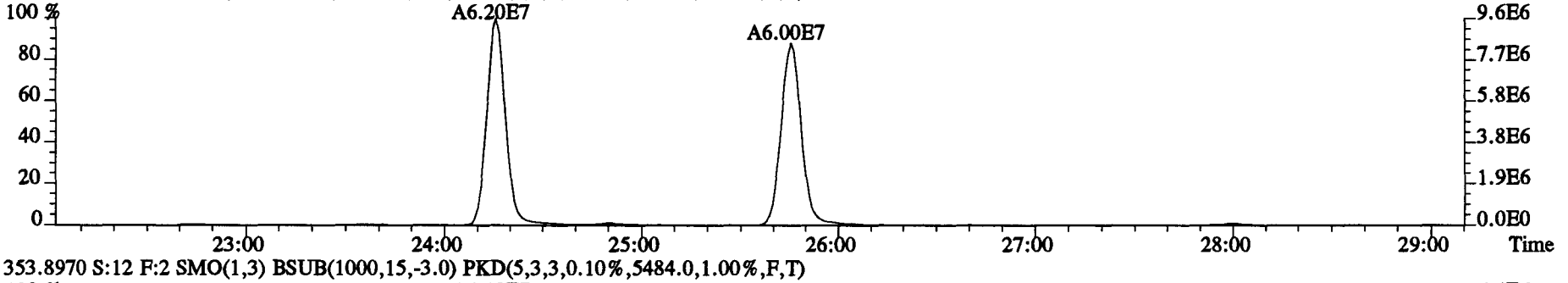
339.8597 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8120.0,1.00%,F,T)



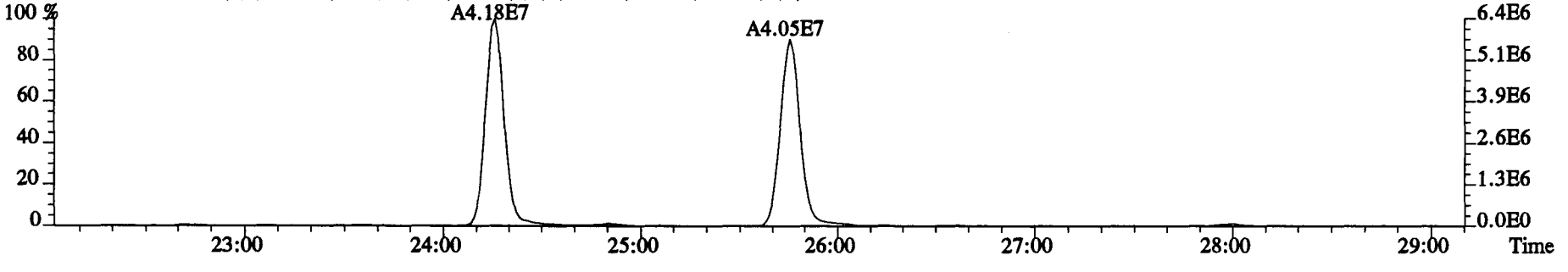
341.8567 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2940.0,1.00%,F,T)



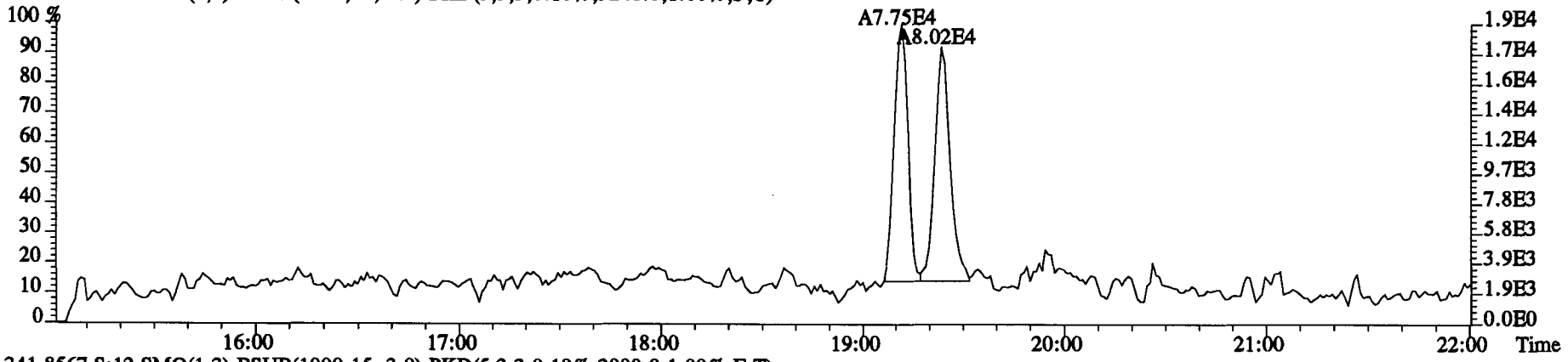
351.9000 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5440.0,1.00%,F,T)



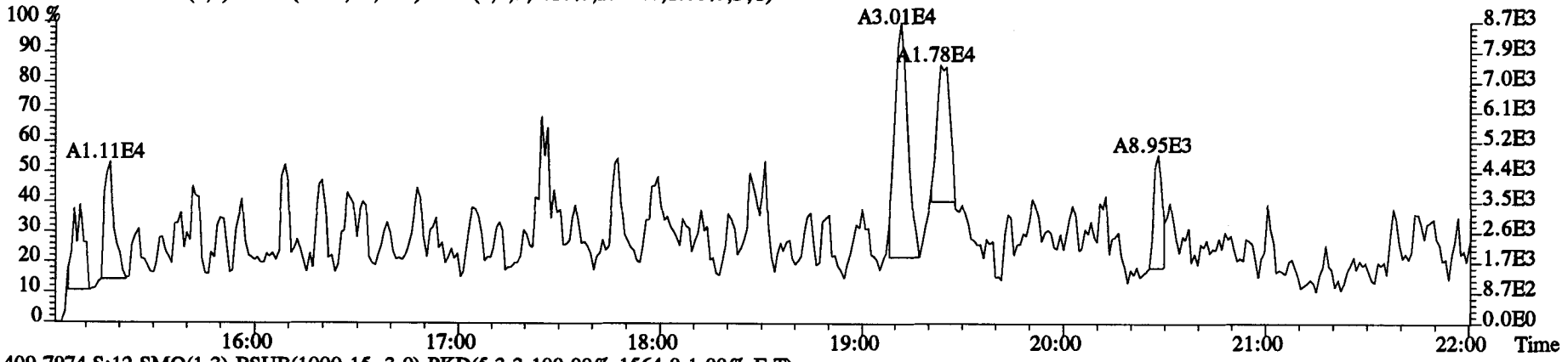
353.8970 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5484.0,1.00%,F,T)



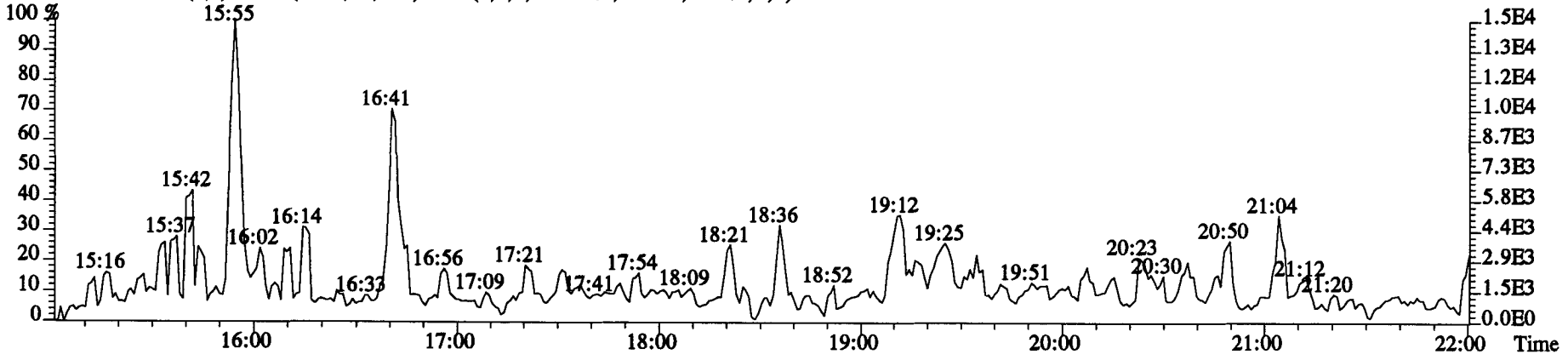
File:15DE109D5 #1-464 Acq:15-DEC-2010 17:54:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MCCX2-1-AC :G0L110441-2LCS Exp:DIOXINRES
339.8597 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3248.0,1.00%,F,T)



341.8567 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2988.0,1.00%,F,T)

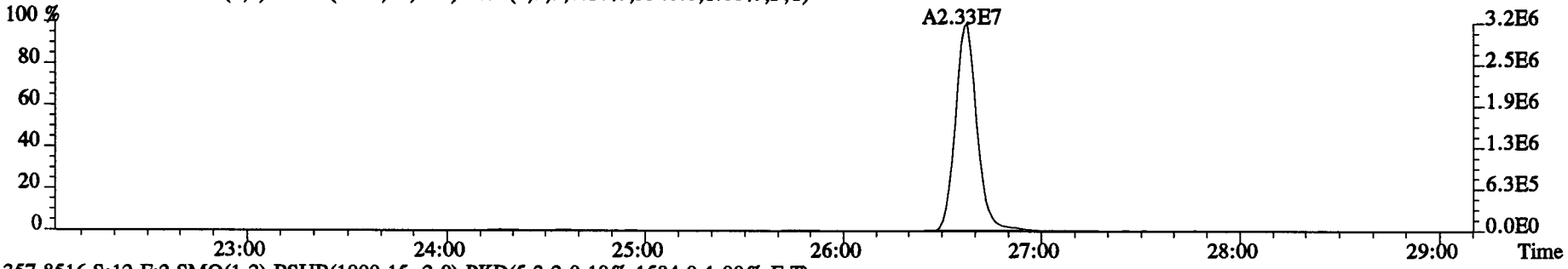


409.7974 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1564.0,1.00%,F,T)

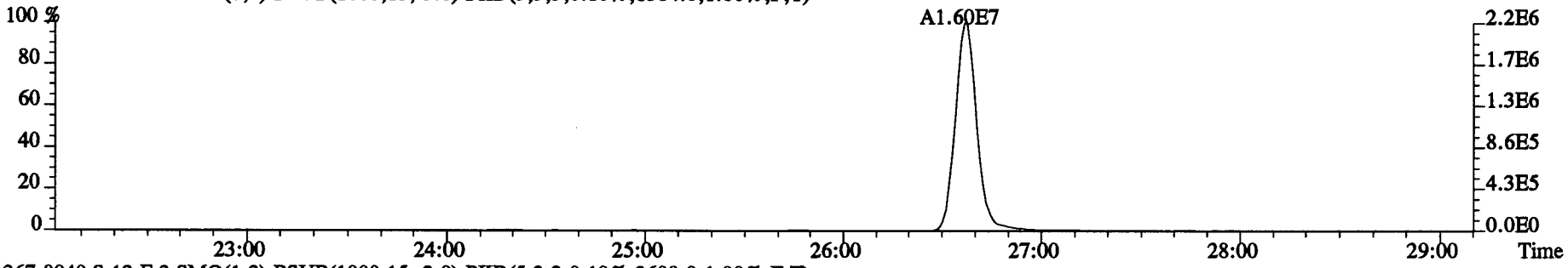


File:15DE109D5 #1-459 Acq:15-DEC-2010 17:54:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MCCX2-1-AC :G0L110441-2LCS Exp:DIOXINRES

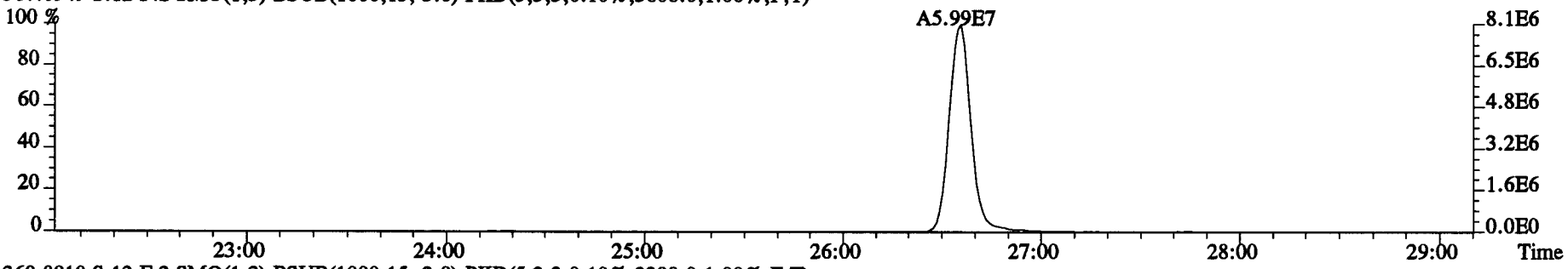
355.8546 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3340.0,1.00%,F,T)



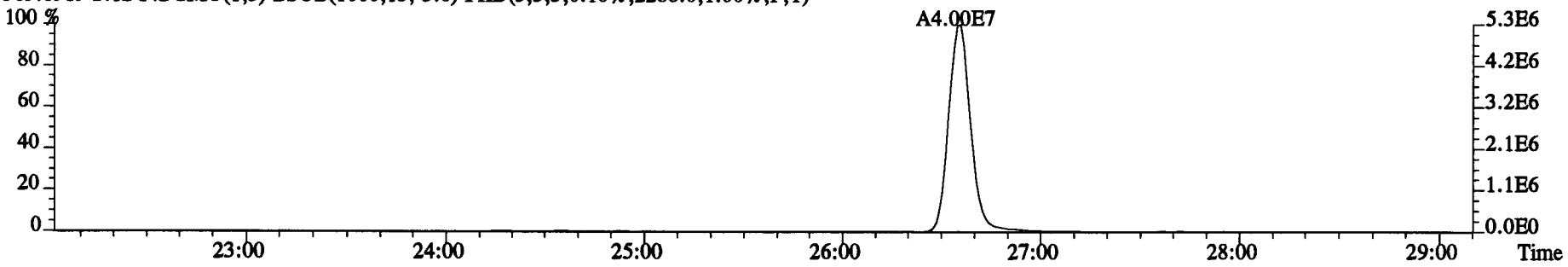
357.8516 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1584.0,1.00%,F,T)



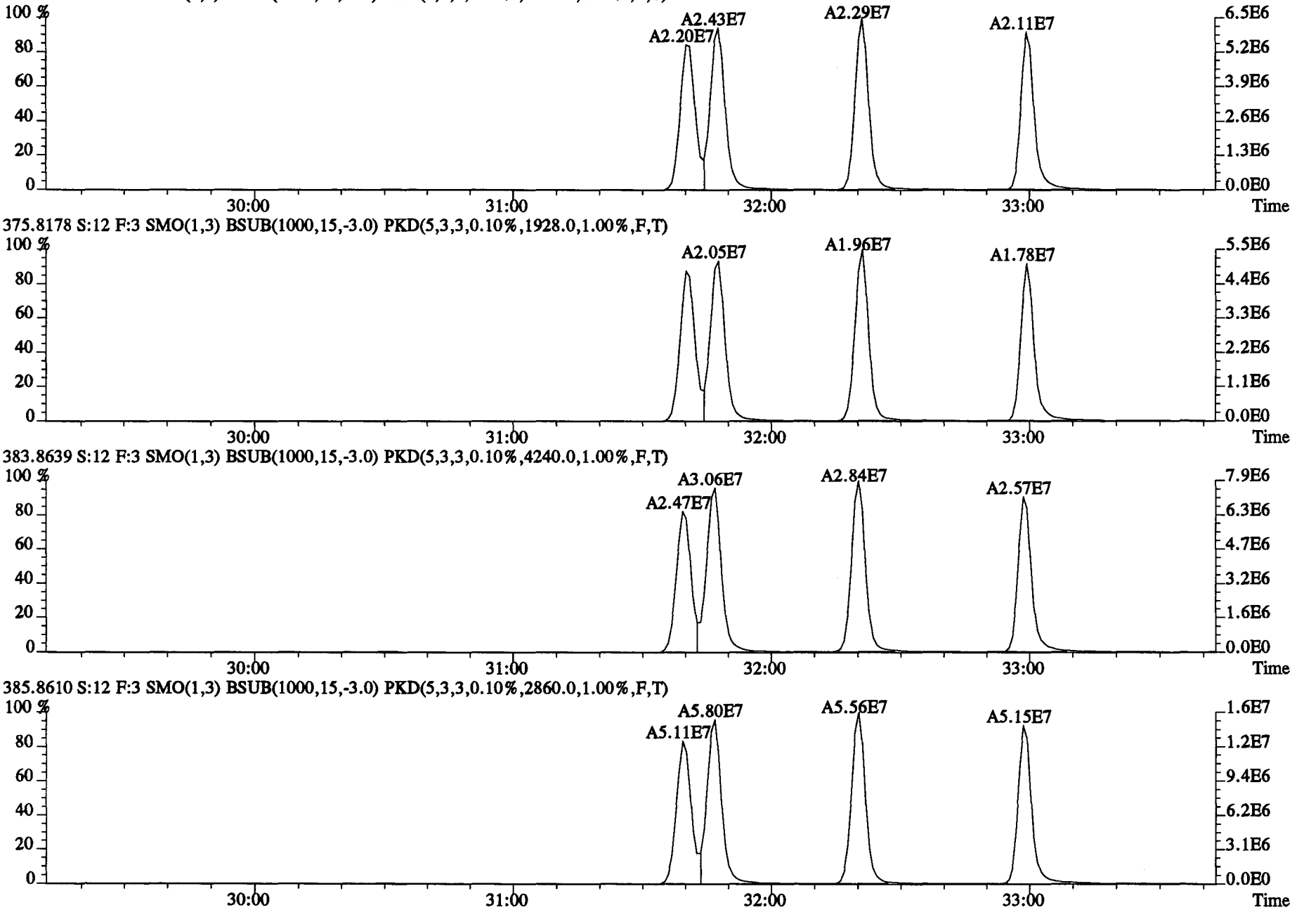
367.8949 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3608.0,1.00%,F,T)



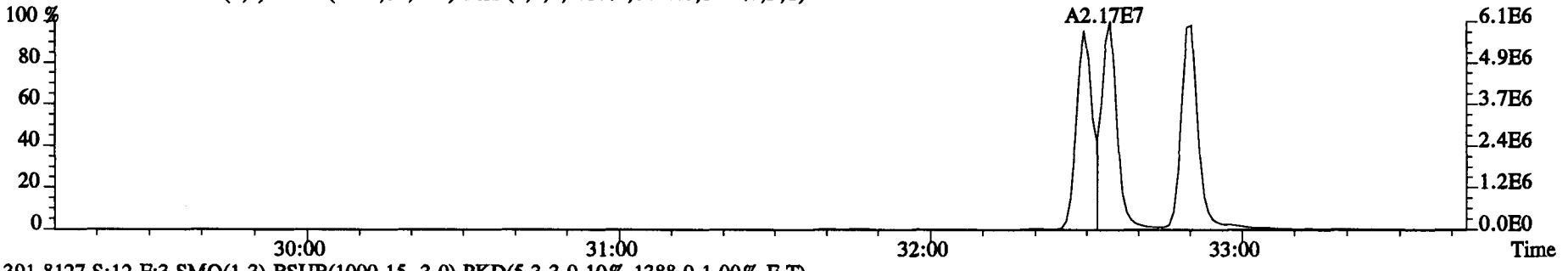
369.8919 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2288.0,1.00%,F,T)

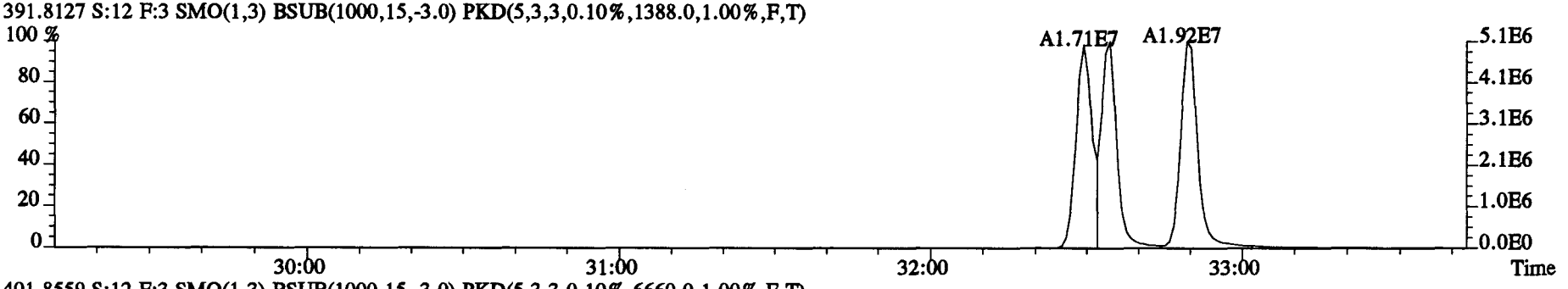


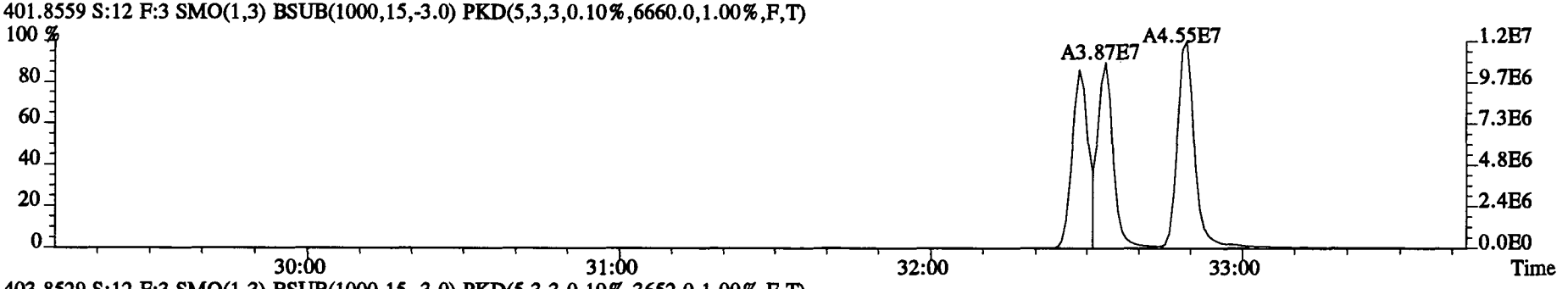
File:15DE109D5 #1-326 Acq:15-DEC-2010 17:54:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MCCX2-1-AC :G0L110441-2LCS Exp:DIOXINRES

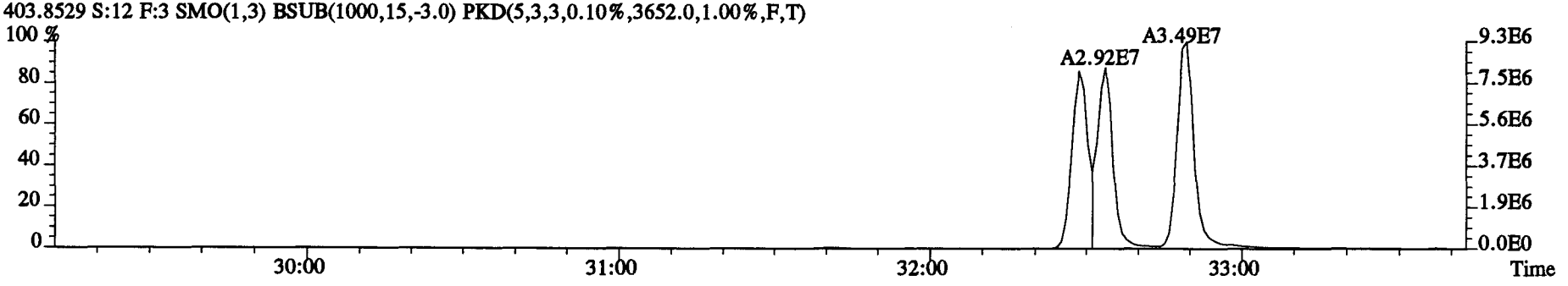


File:15DE109D5 #1-326 Acq:15-DEC-2010 17:54:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MCCX2-1-AC :G0L110441-2LCS Exp:DIOXINRES

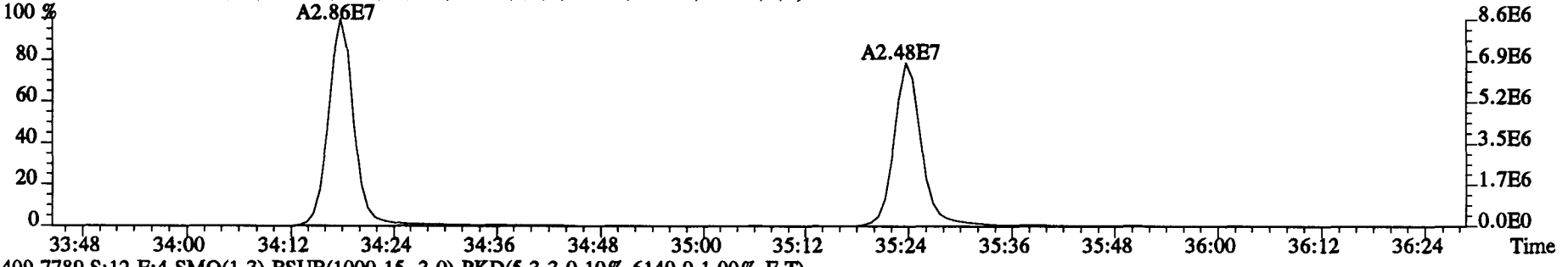




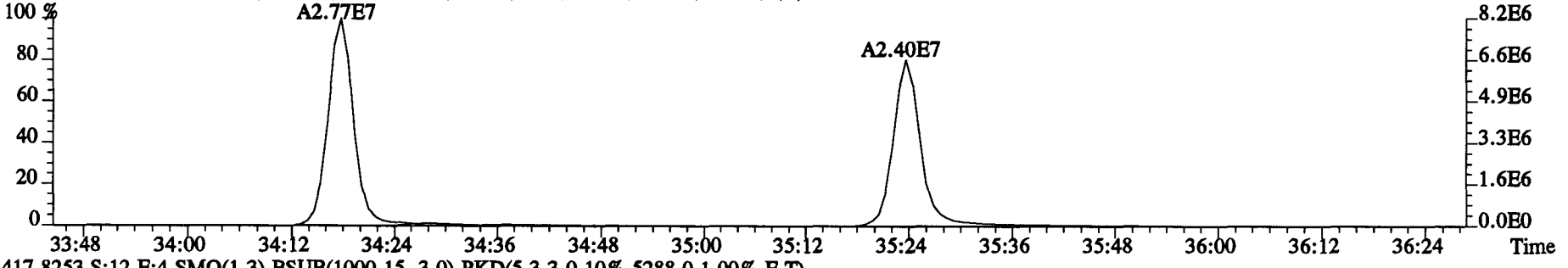




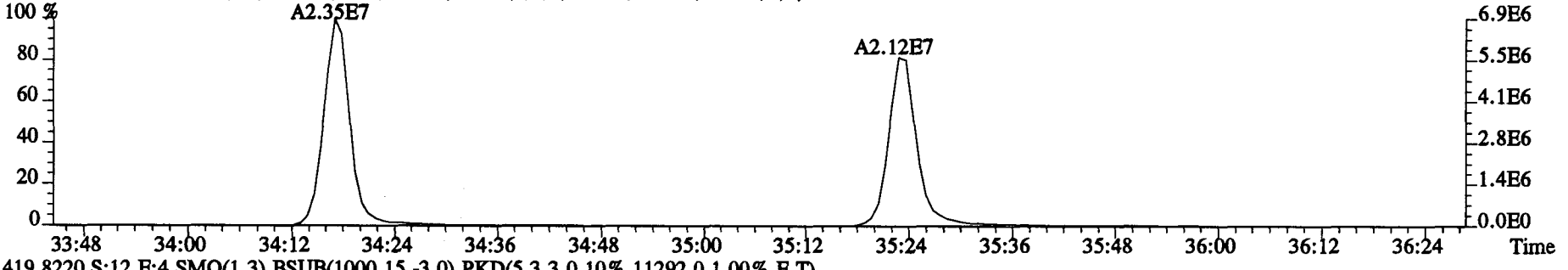
File:15DE109D5 #1-208 Acq:15-DEC-2010 17:54:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MCCX2-1-AC :G0L110441-2LCS Exp:DIOXINRES
407.7818 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5472.0,1.00%,F,T)



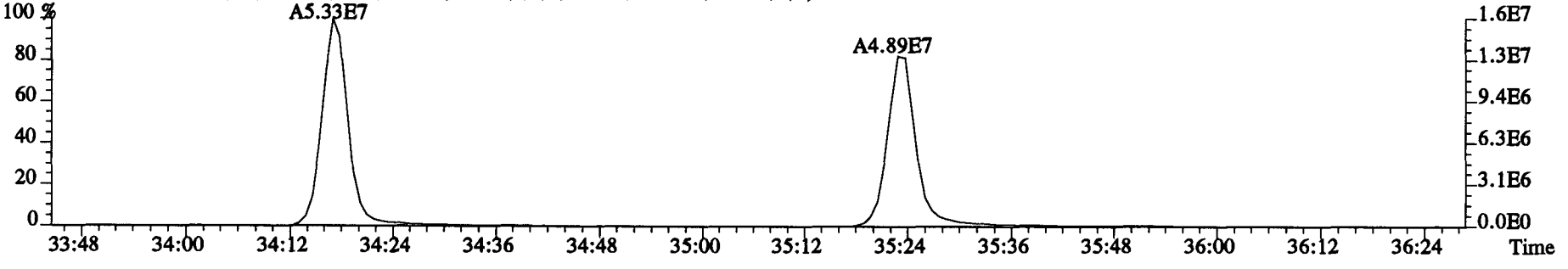
409.7789 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6140.0,1.00%,F,T)



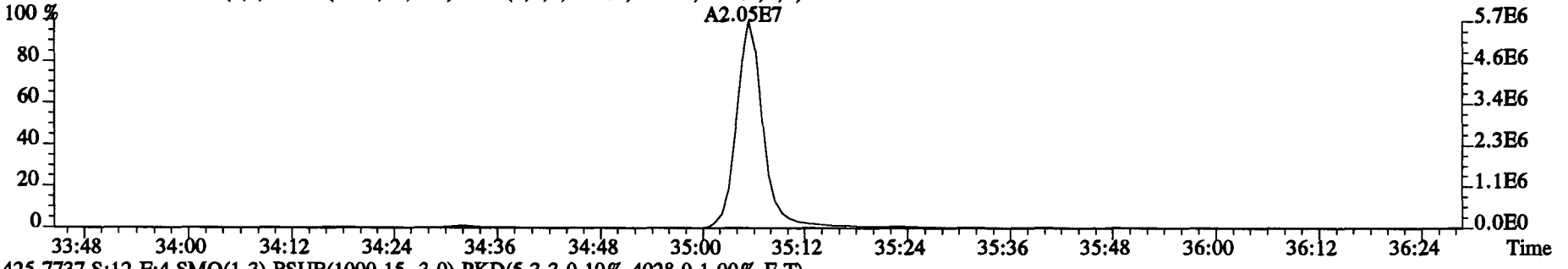
417.8253 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5288.0,1.00%,F,T)



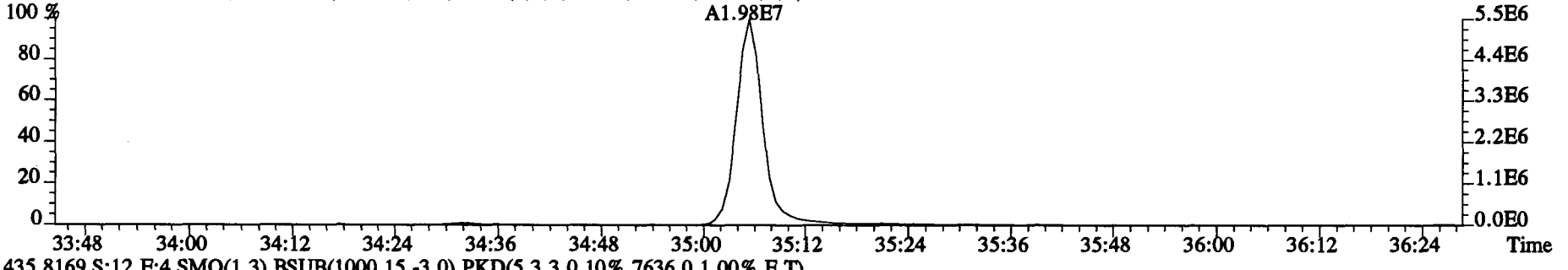
419.8220 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11292.0,1.00%,F,T)



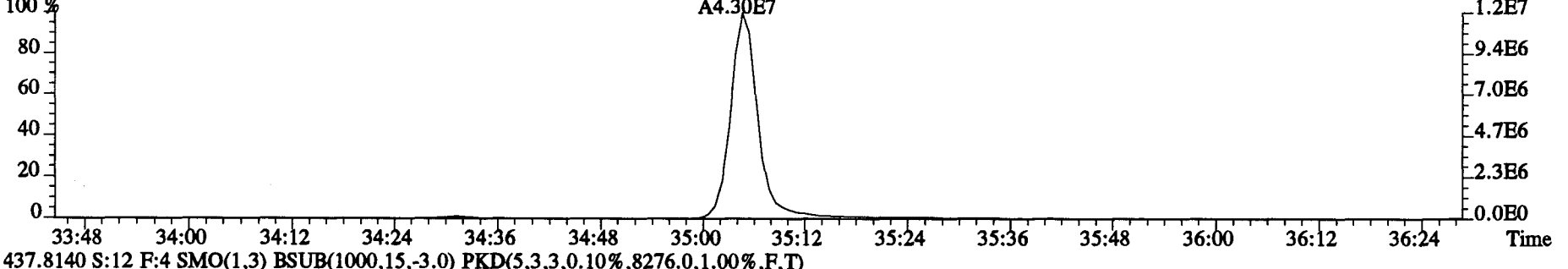
File:15DE109D5 #1-208 Acq:15-DEC-2010 17:54:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MCCX2-1-AC :G0L110441-2LCS Exp:DIOXINRES
423.7766 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3468.0,1.00%,F,T)



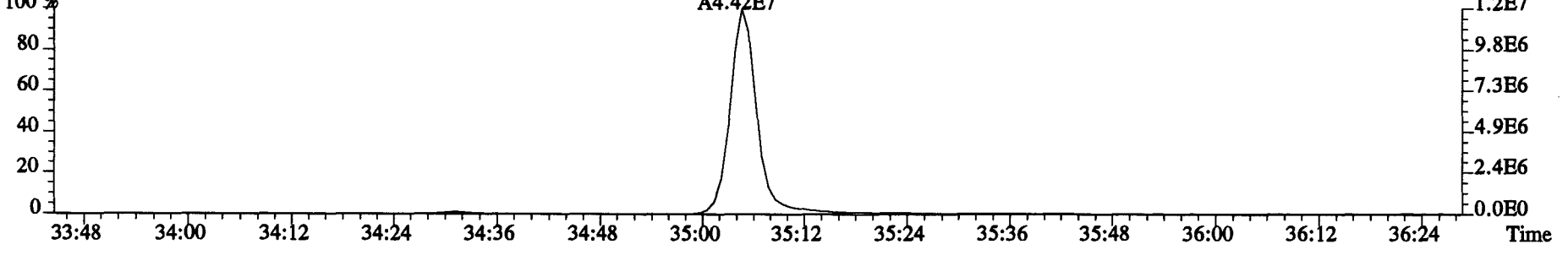
425.7737 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4028.0,1.00%,F,T)



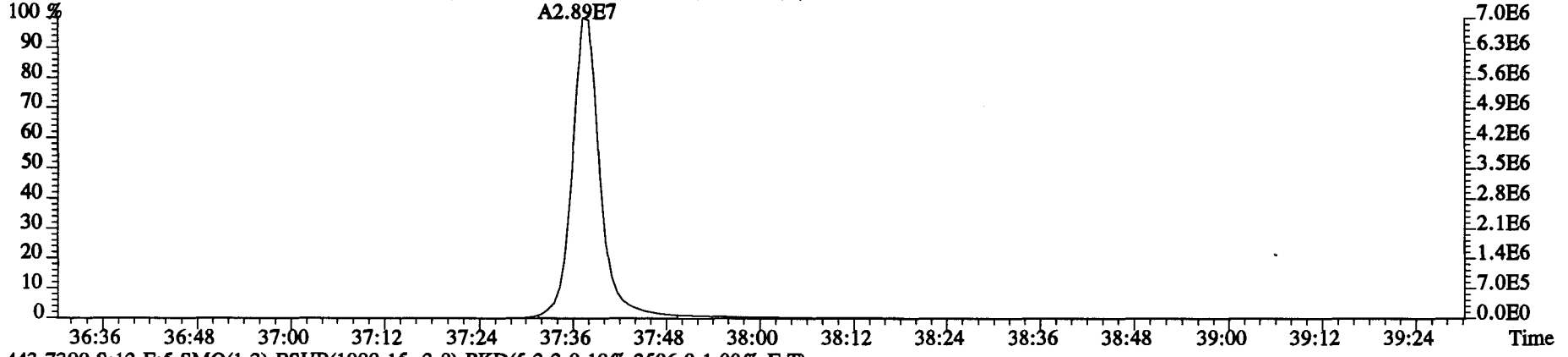
435.8169 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7636.0,1.00%,F,T)



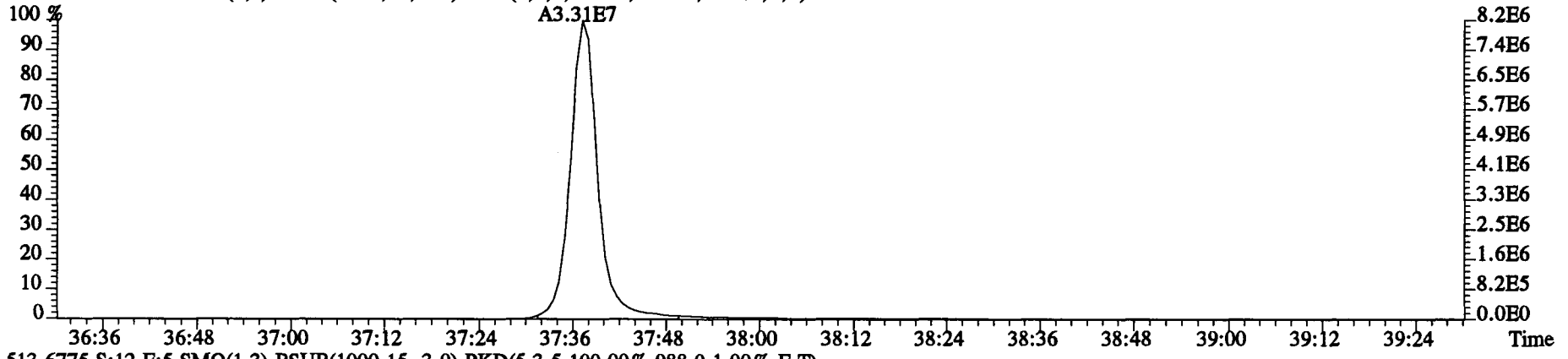
437.8140 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8276.0,1.00%,F,T)



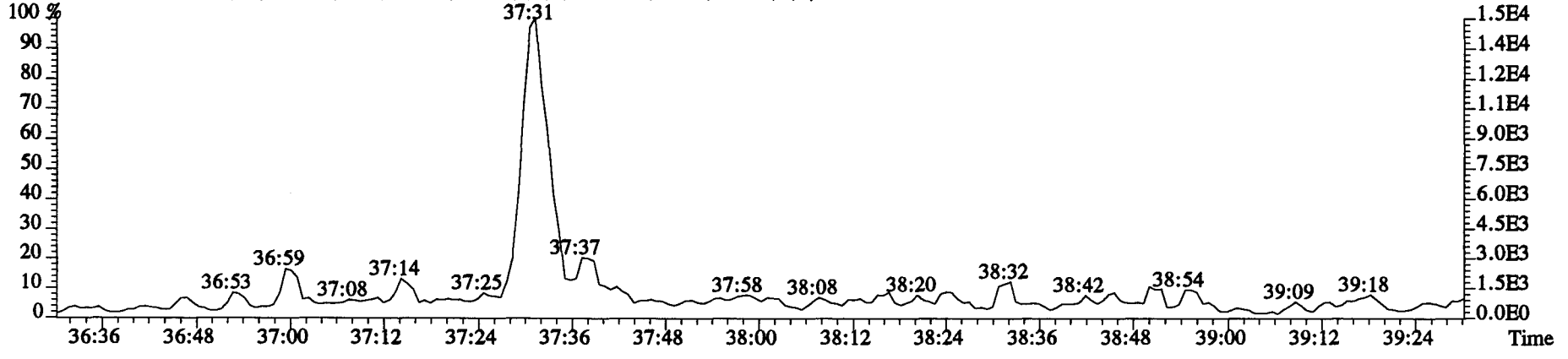
File:15DE109D5 #1-243 Acq:15-DEC-2010 17:54:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MCCX2-1-AC :G0L110441-2LCS Exp:DIOXINRES
441.7428 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1052.0,1.00%,F,T)



443.7399 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3596.0,1.00%,F,T)

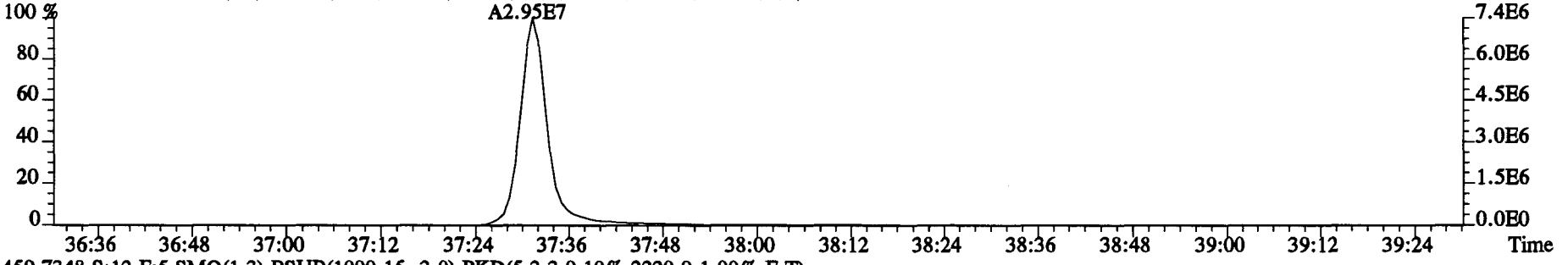


513.6775 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,988.0,1.00%,F,T)

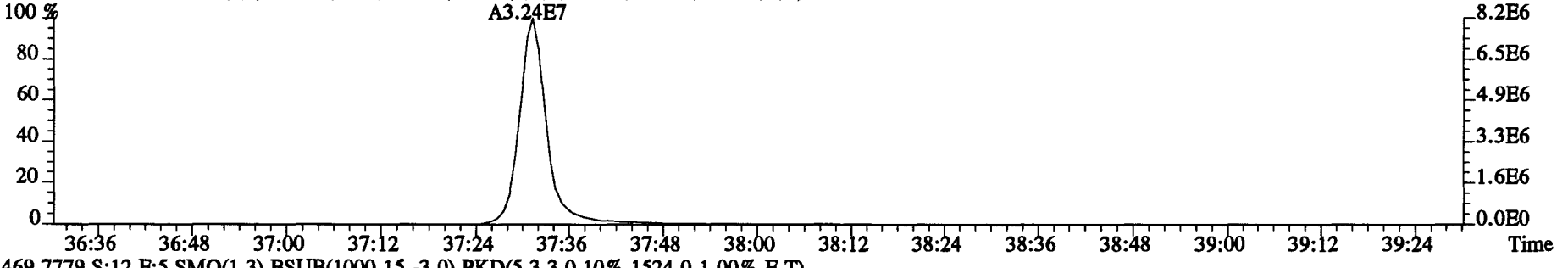


File:15DE109D5 #1-243 Acq:15-DEC-2010 17:54:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MCCX2-1-AC :G0L110441-2LCS Exp:DIOXINRES

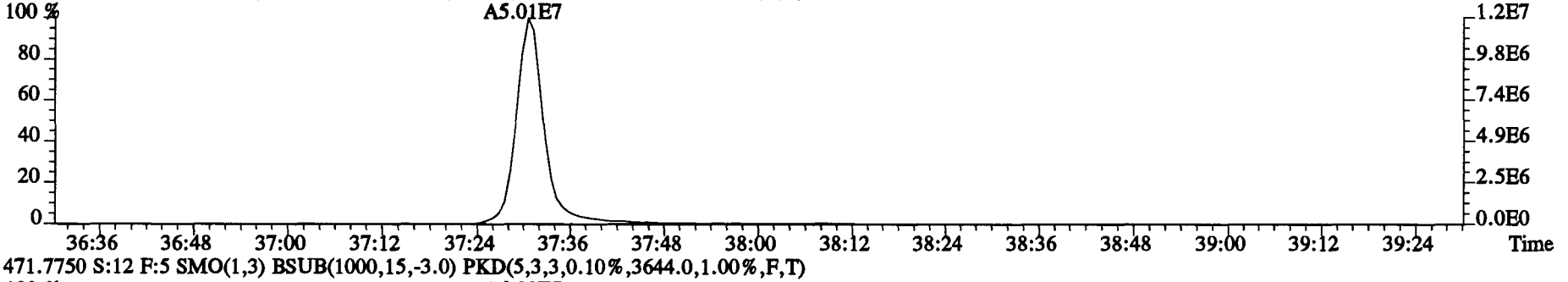
457.7377 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3848.0,1.00%,F,T)



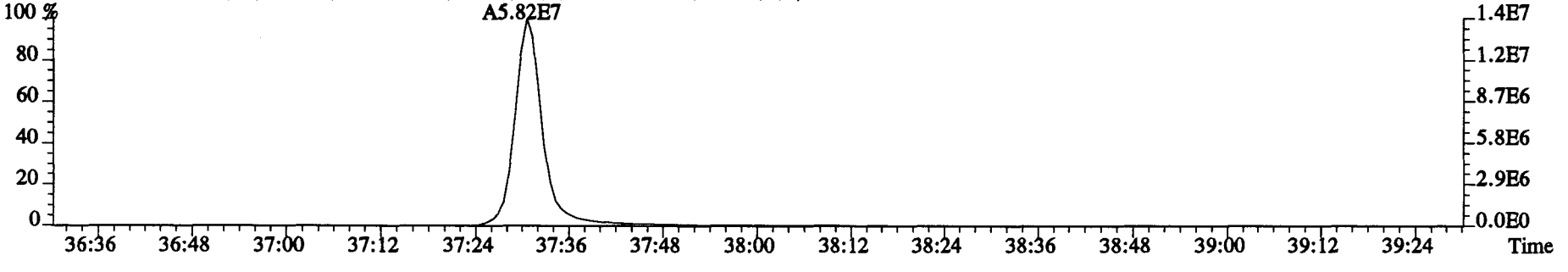
459.7348 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2220.0,1.00%,F,T)



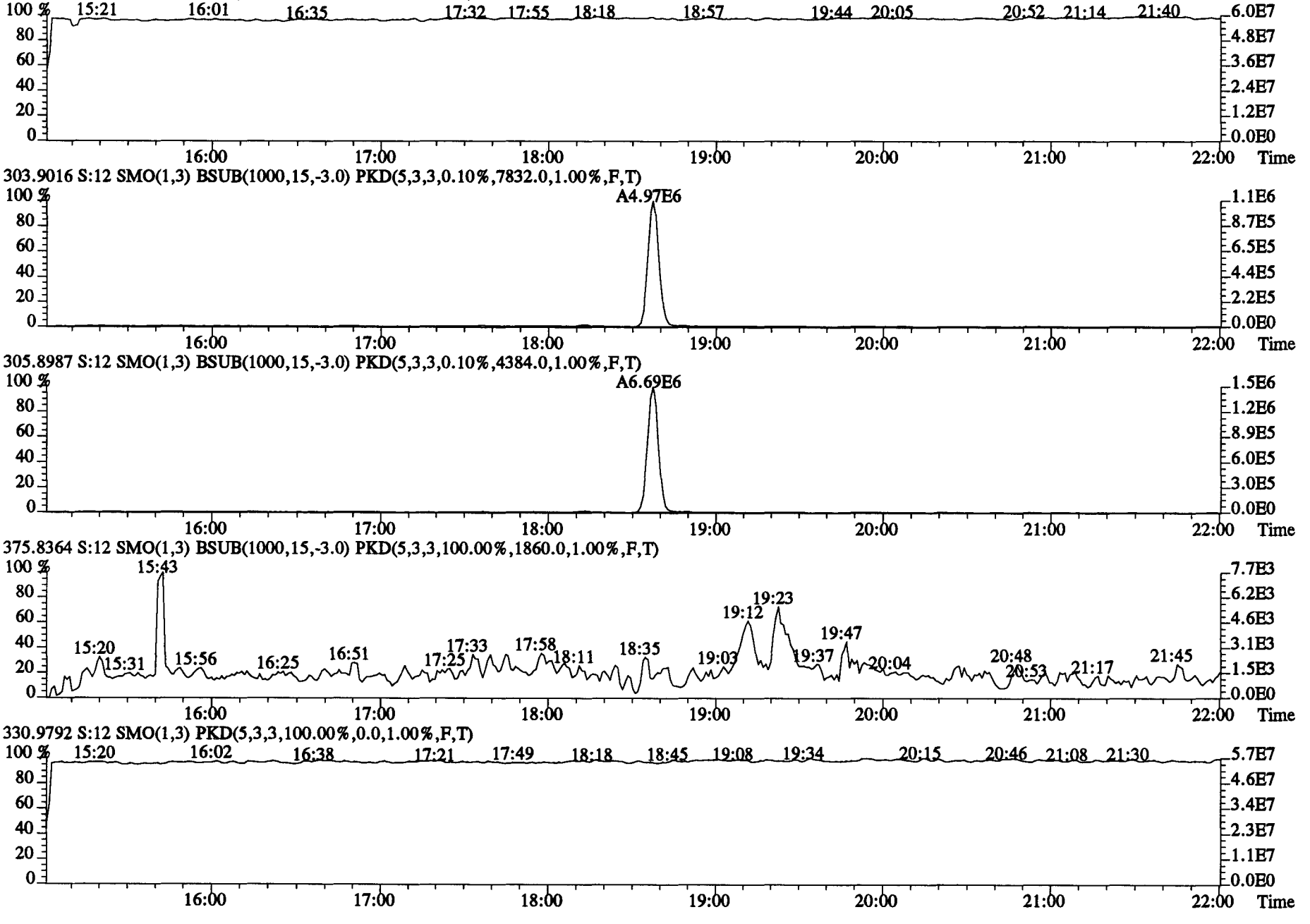
469.7779 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1524.0,1.00%,F,T)



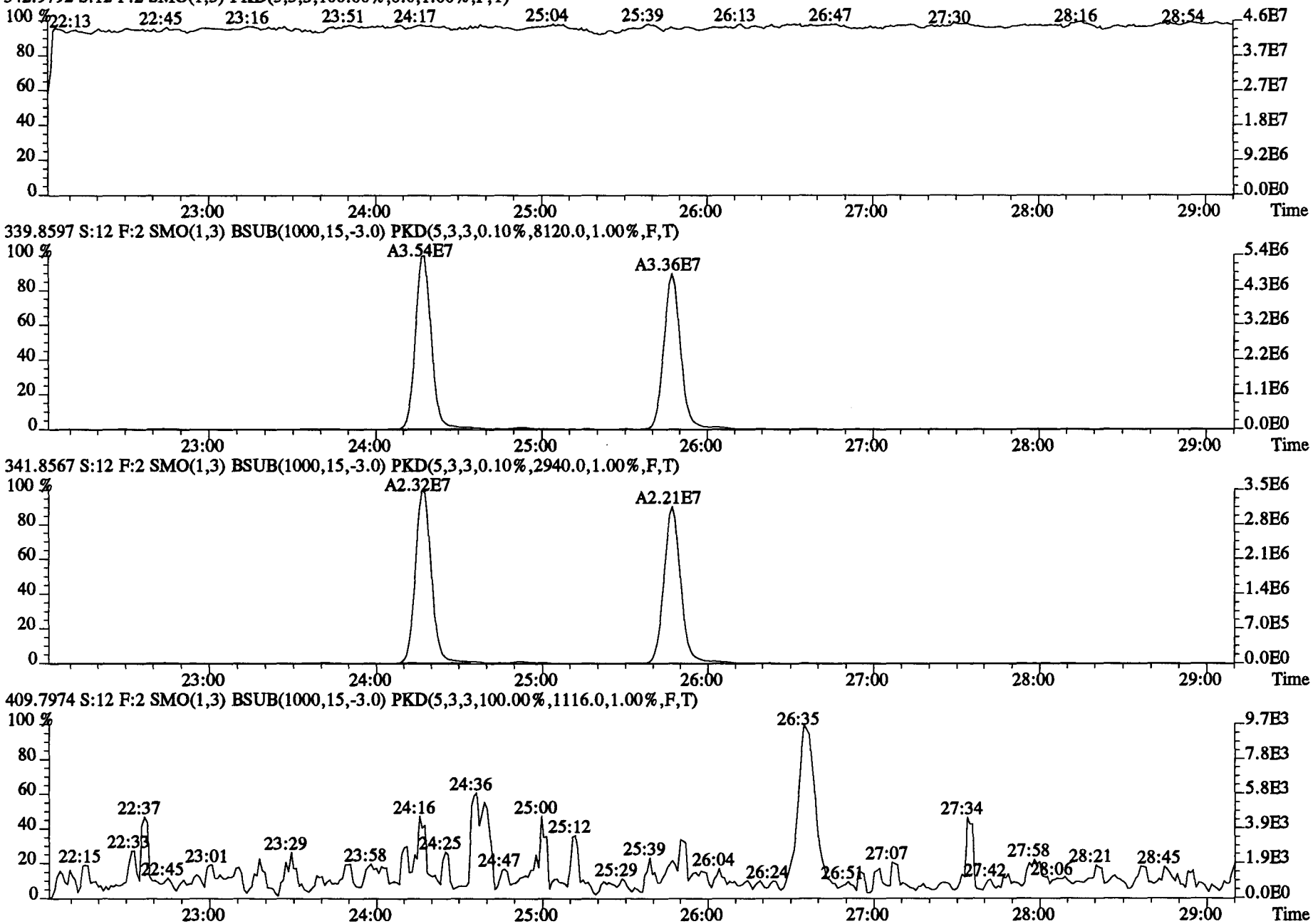
471.7750 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3644.0,1.00%,F,T)



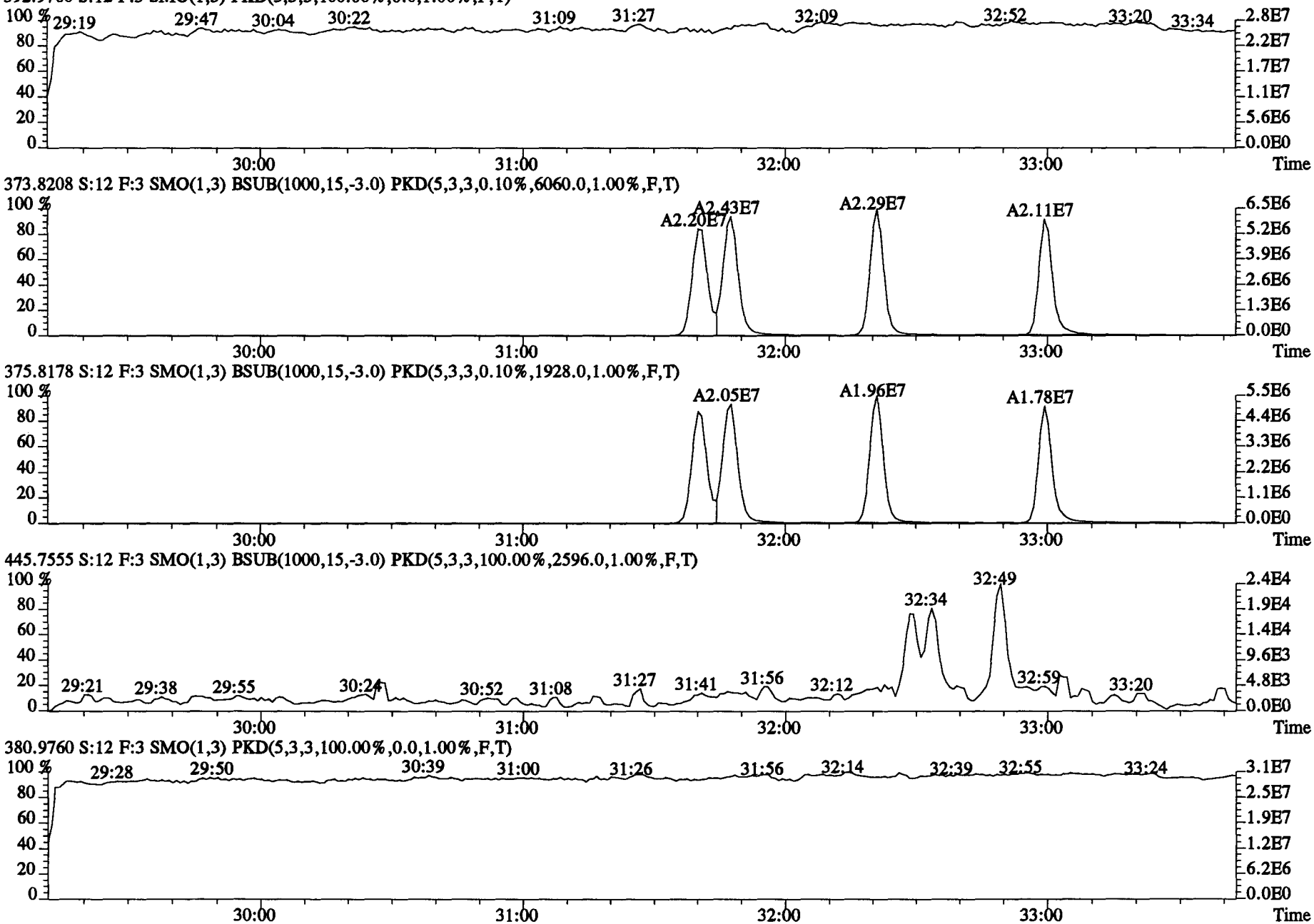
File:15DE109D5 #1-464 Acq:15-DEC-2010 17:54:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MCCX2-1-AC :G0L110441-2LCS Exp:DIOXINRES



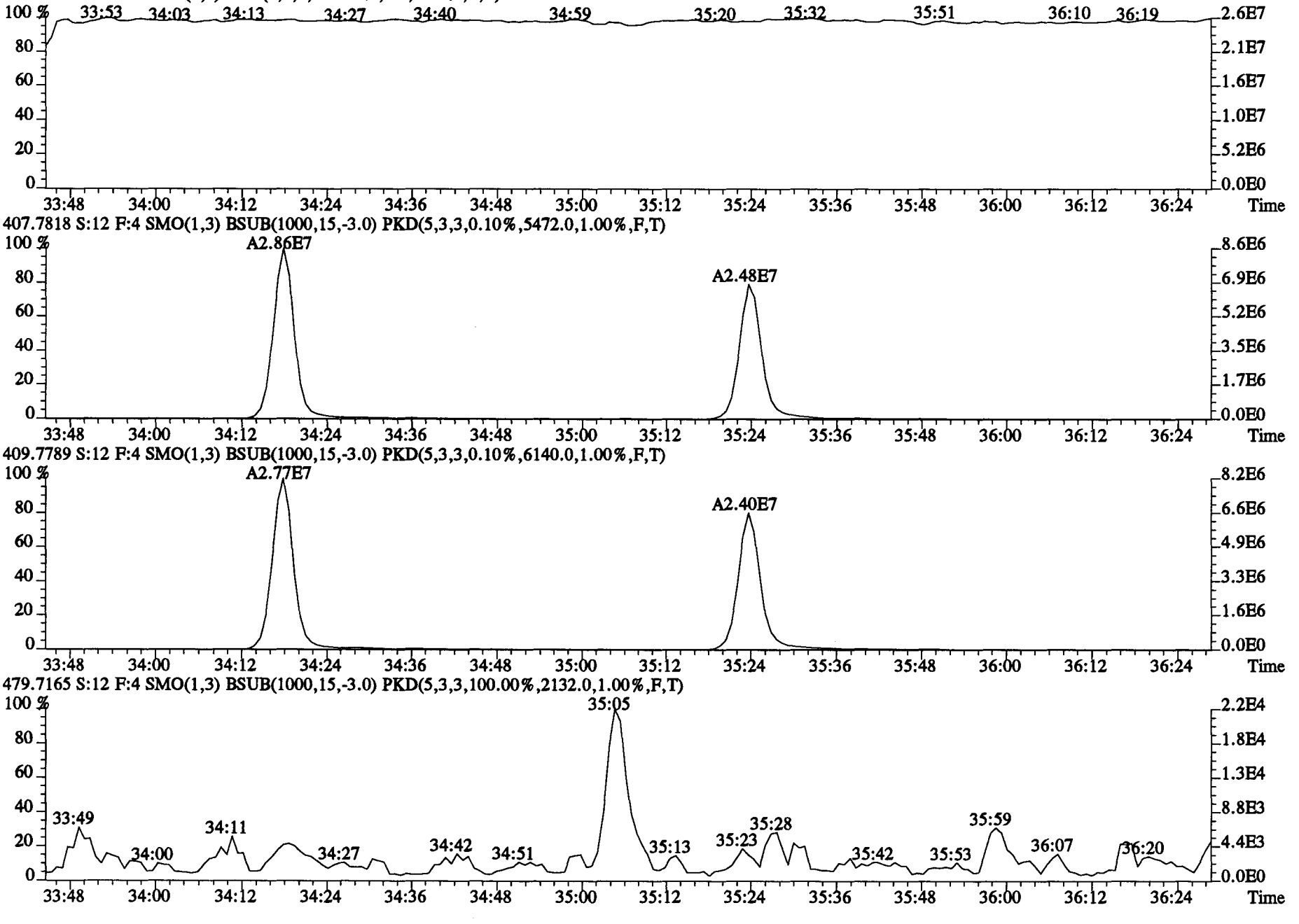
File:15DE109D5 #1-459 Acq:15-DEC-2010 17:54:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MCCX2-1-AC :G0L110441-2LCS Exp:DIOXINRES



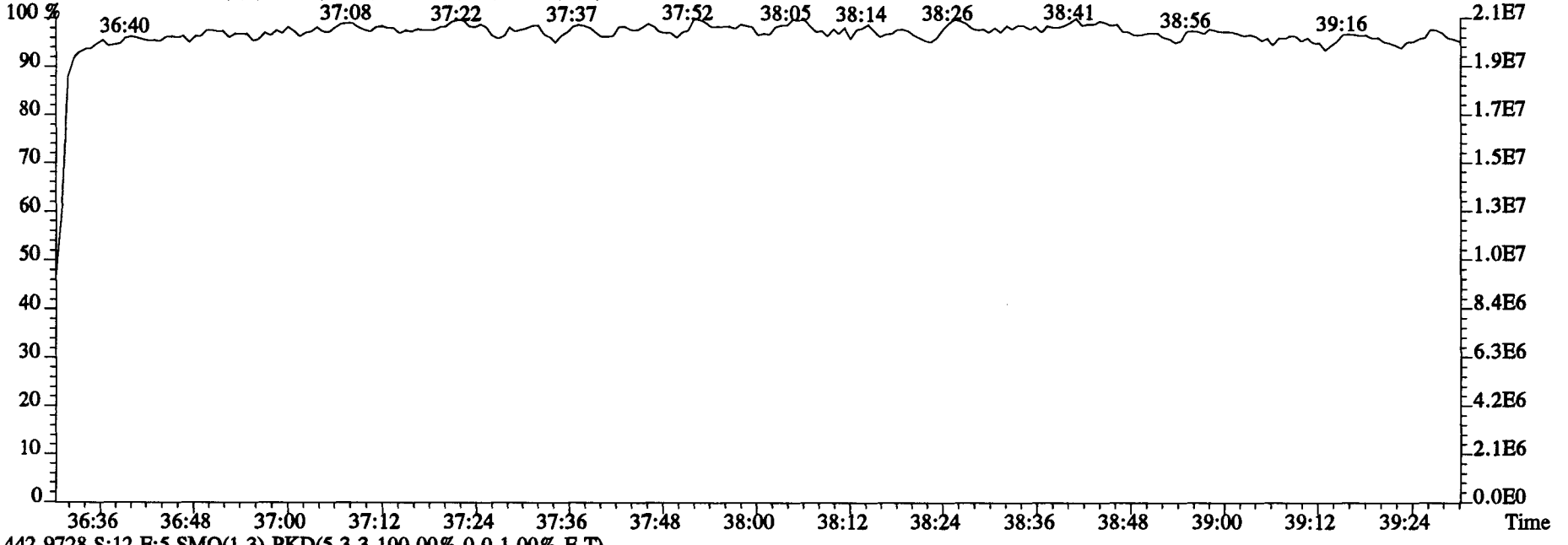
File:15DE109D5 #1-326 Acq:15-DEC-2010 17:54:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MCCX2-1-AC :G0L110441-2LCS Exp:DIOXINRES



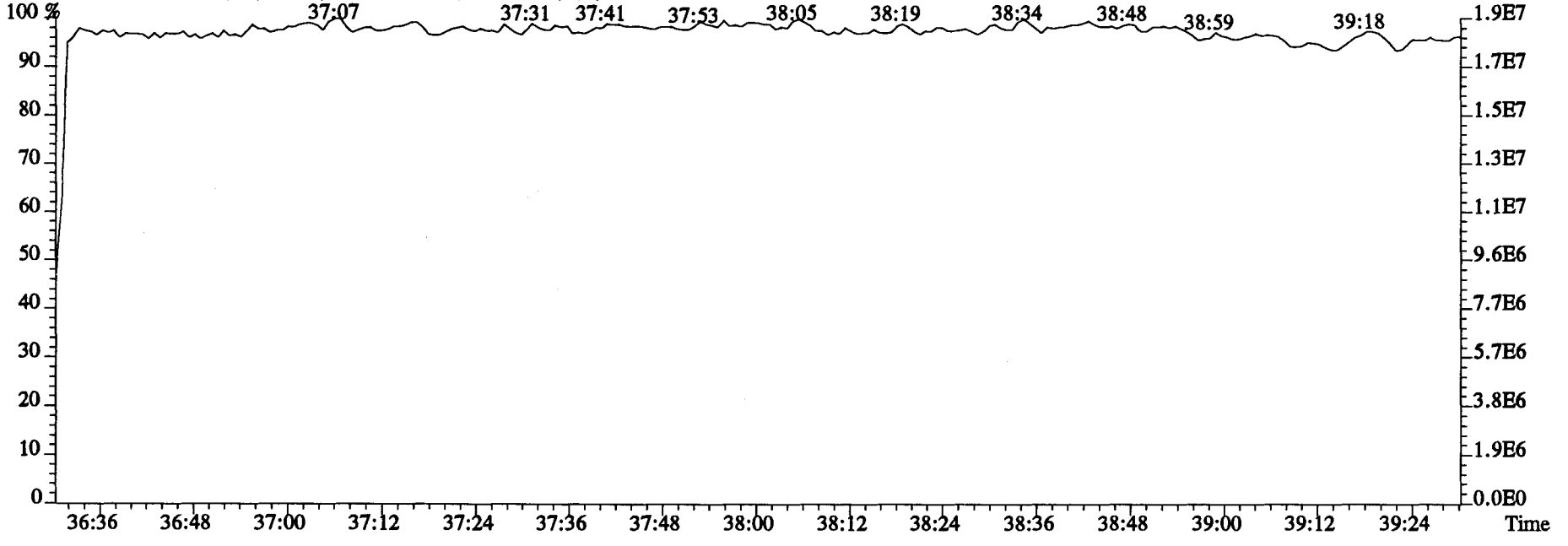
File:15DE109D5 #1-208 Acq:15-DEC-2010 17:54:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MCCX2-1-AC :G0L110441-2LCS Exp:DIOXINRES



File:15DE109D5 #1-243 Acq:15-DEC-2010 17:54:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MCCX2-1-AC :G0L110441-2LCS Exp:DIOXINRES
454.9728 S:12 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:12 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

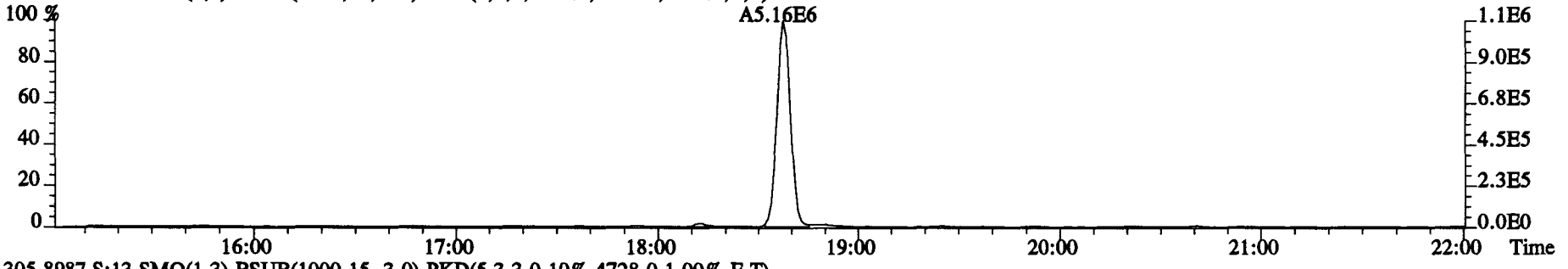


Run text: MCCX2-1-AD Sample text: MCCX2-1-AD :G0L110441-2DCS
Run #13 Filename: 15DE109D5 S: 13 I: 1 Results: 15DE109D5TO9
Acquired: 15-DEC-10 18:38:04 Processed: 16-DEC-10 10:01:03
Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5
Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

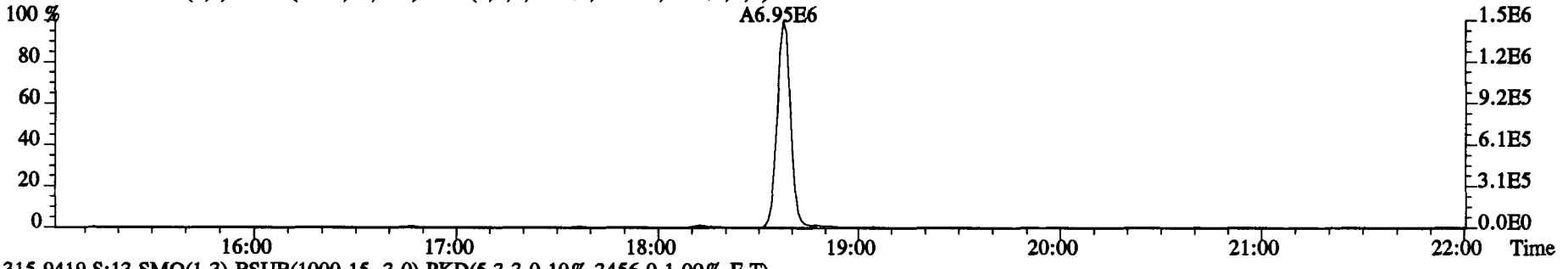
12/16/10

Name	Resp	RA		RT	RRF	Conc		EDL	Rec	M
13C-1,2,3,4-TCDD	129991900	0.76	y	19:12	-	164.757		-	-	n
13C-2,3,7,8-TCDF	124720900	0.80	y	18:37	1.11	3445.170	/	2.637	86.1	n
2,3,7,8-TCDF	12112890	0.74	y	18:38	0.88	439.997	/	5.972	-	n
Total TCDF	12284152	0.87	y	18:12	0.88	446.219		5.972	-	n
13C-2,3,7,8-TCDD	113081500	0.75	y	19:24	0.97	3579.965		8.708	89.5	n
2,3,7,8-TCDD	10417920	0.79	y	19:25	0.87	422.819	/	2.734	-	n
Total TCDD	10468629	3.57	n	18:37	0.87	424.877		2.734	-	n
37Cl-2,3,7,8-TCDD	119796	1.00	y	19:25	1.22	3.463		1.476	0.2	n
13C-1,2,3,7,8-PeCDF	101514300	1.46	y	24:16	0.92	3391.591		4.323	84.8	n
1,2,3,7,8-PeCDF	60940700	1.52	y	24:18	1.06	2255.578	/	8.777	-	n
2,3,4,7,8-PeCDF	57815000	1.51	y	25:47	1.03	2217.011	/	9.093	-	n
Total F2 PeCDF	119635522	1.83	n	22:44	1.05	4505.730		8.932	-	n
Total F1 PeCDF	142457	3.25	n	19:12	1.05	5.366		4.894	-	n
13C-1,2,3,7,8-PeCDD	97748200	1.47	y	26:36	0.83	3626.517	/	2.233	90.7	n
1,2,3,7,8-PeCDD	40713900	1.42	y	26:38	0.79	2100.733	/	4.544	-	n
Total PeCDD	40758641	4.65	n	24:17	0.79	2103.041		4.544	-	n
13C-1,2,3,7,8,9-HxCDD	80625500	1.32	y	32:49	-	157.121		-	-	n
13C-1,2,3,4,7,8-HxCDF	75307800	0.50	y	31:40	1.07	3484.753		2.797	87.1	n
1,2,3,4,7,8-HxCDF	42580300	1.16	y	31:41	1.06	2128.082	/	3.647	-	n
1,2,3,6,7,8-HxCDF	46583700	1.18	y	31:48	1.12	2206.069	/	3.456	-	n
2,3,4,6,7,8-HxCDF	44991500	1.17	y	32:21	1.05	2279.874	/	3.698	-	n
1,2,3,7,8,9-HxCDF	40348700	1.18	y	33:00	0.95	2249.911	/	4.069	-	n
Total HxCDF	174615480	1.36	y	30:32	1.05	8869.585		3.704	-	n
13C-1,2,3,6,7,8-HxCDD	66162100	1.32	y	32:34	0.89	3696.179		5.005	92.4	n
1,2,3,4,7,8-HxCDD	35914800	1.12	y	32:29	1.11	1949.797	/	1.438	-	n
1,2,3,6,7,8-HxCDD	42097200	1.14	y	32:34	1.16	2195.362	/	1.381	-	n
1,2,3,7,8,9-HxCDD	43943200	1.18	y	32:50	1.20	2210.886	/	1.332	-	n
Total HxCDD	121955200	1.12	y	32:29	1.16	6356.044		1.382	-	n
13C-1,2,3,4,6,7,8-HpCDF	77505500	0.44	y	34:18	0.95	4055.780		5.608	101.4	n
1,2,3,4,6,7,8-HpCDF	60040500	1.03	y	34:18	1.44	2158.981	/	4.520	-	n
1,2,3,4,7,8,9-HpCDF	50698800	1.03	y	35:24	1.23	2133.038	/	5.289	-	n
Total HpCDF	111255567	1.03	y	34:18	1.33	4312.038		4.874	-	n
13C-1,2,3,4,6,7,8-HpCDD	89795600	0.99	y	35:05	1.08	4142.825		8.686	103.6	n
1,2,3,4,6,7,8-HpCDD	43029200	1.04	y	35:05	0.90	2140.903	/	3.037	-	n
Total HpCDD	43381501	1.05	y	34:32	0.90	2158.431		3.037	-	n
13C-OCDD	110113500	0.85	y	37:31	0.69	7919.064		6.709	99.0	n
OCDF	65038100	0.88	y	37:38	1.18	4004.333	/	3.343	-	n
OCDD	65117900	0.90	y	37:31	1.14	4155.266	/	3.777	-	n

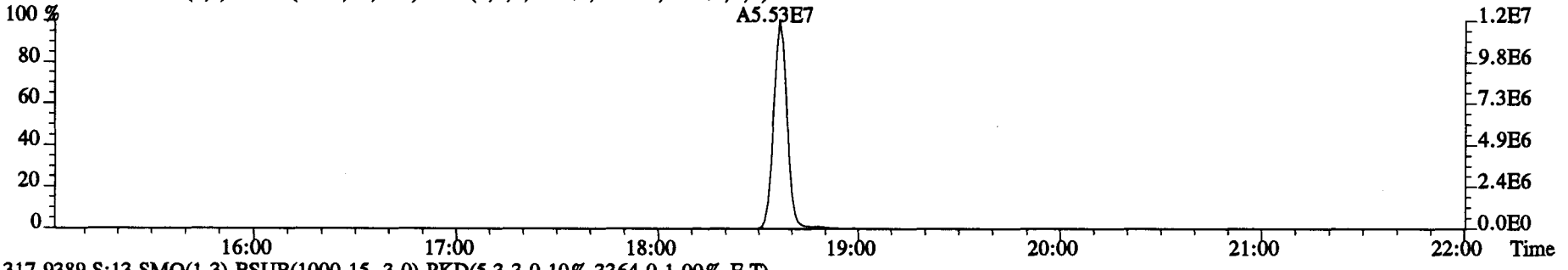
File:15DE109D5 #1-464 Acq:15-DEC-2010 18:38:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:MCCX2-1-AD :G0L110441-2DCS Exp:DIOXINRES
303.9016 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7356.0,1.00%,F,T)



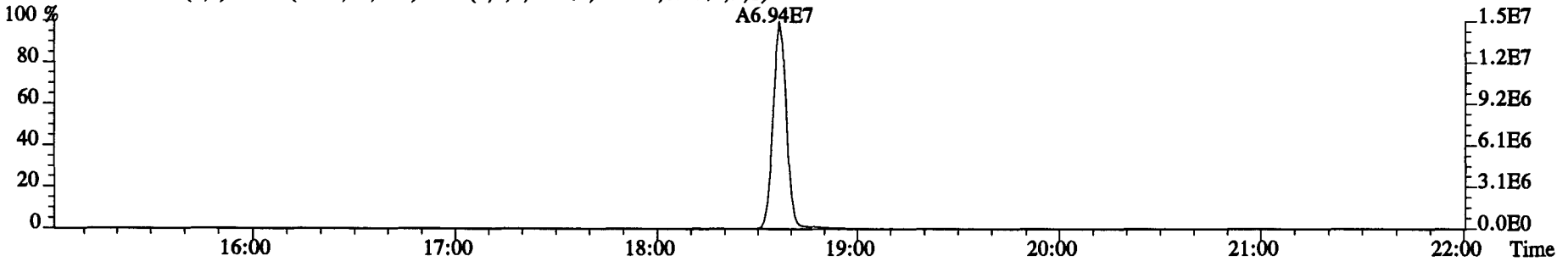
305.8987 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4728.0,1.00%,F,T)



315.9419 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3456.0,1.00%,F,T)

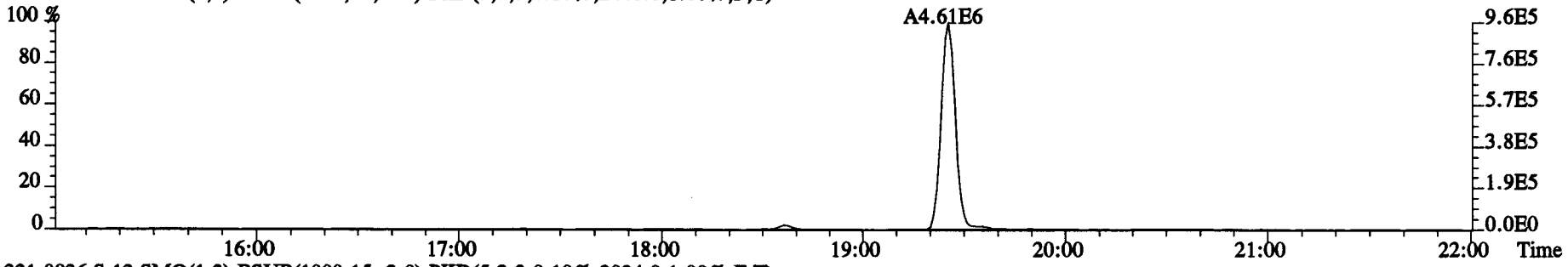


317.9389 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3364.0,1.00%,F,T)

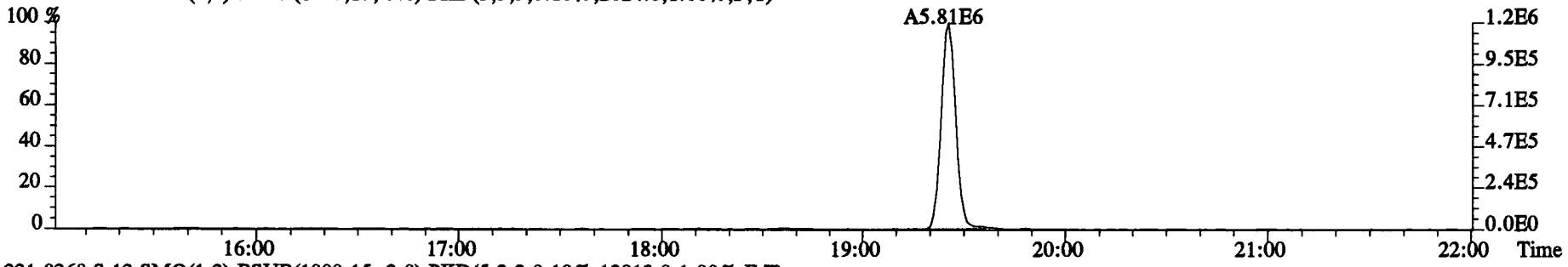


File:15DE109D5 #1-464 Acq:15-DEC-2010 18:38:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:MCCX2-1-AD :G0L110441-2DCS Exp:DIOXINRES

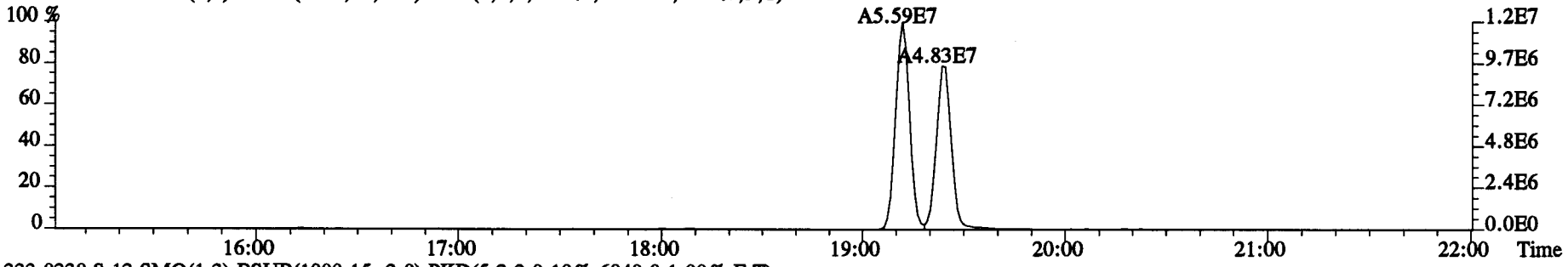
319.8965 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2440.0,1.00%,F,T)



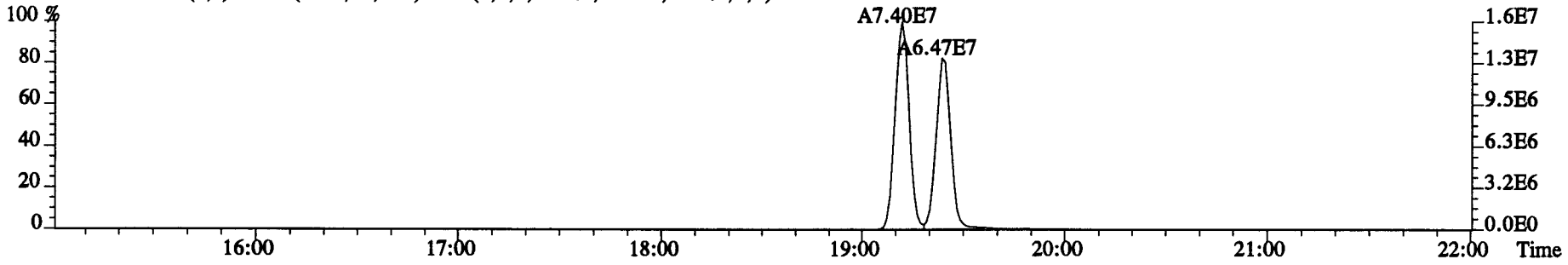
321.8936 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2024.0,1.00%,F,T)



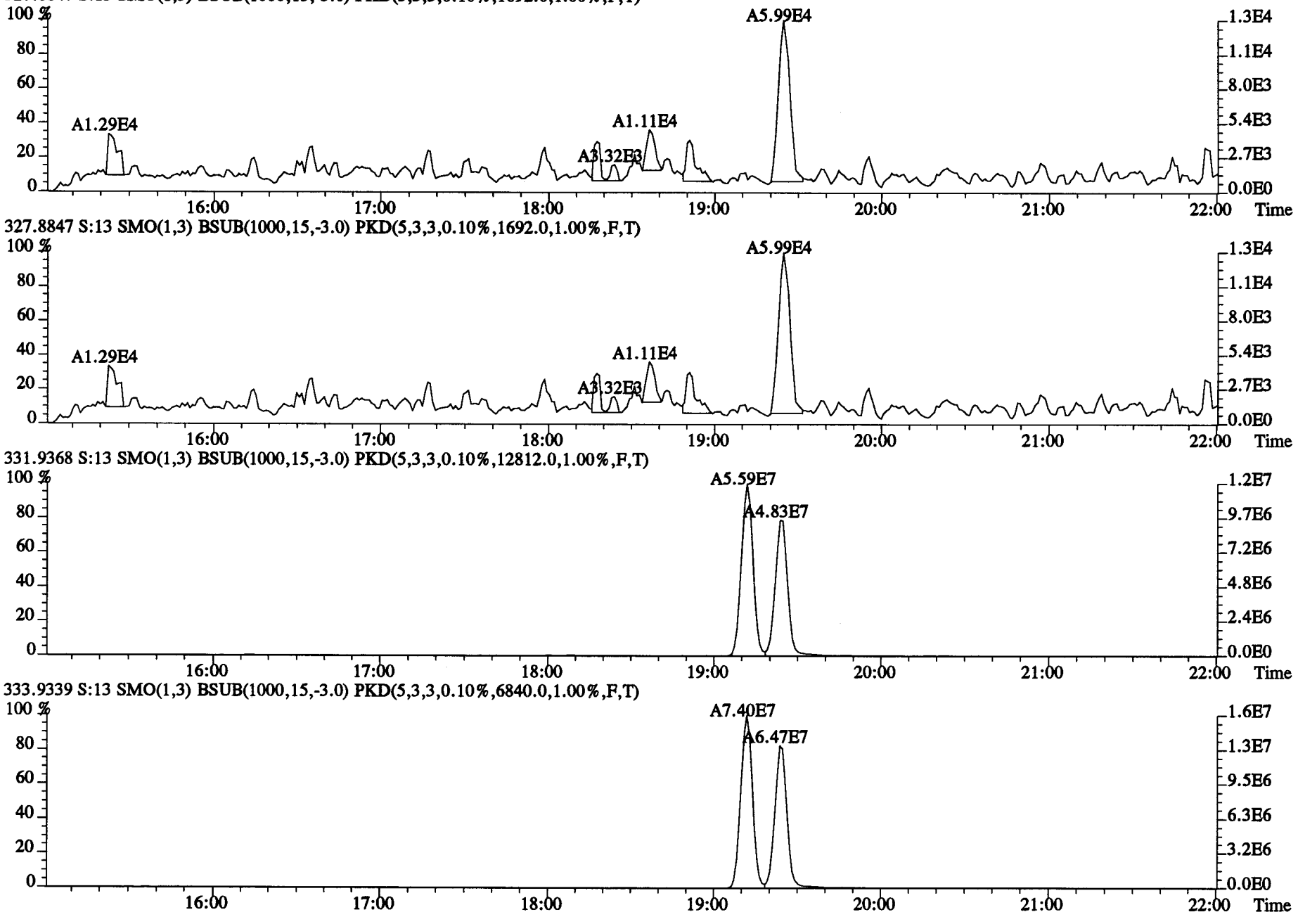
331.9368 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12812.0,1.00%,F,T)



333.9339 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6840.0,1.00%,F,T)

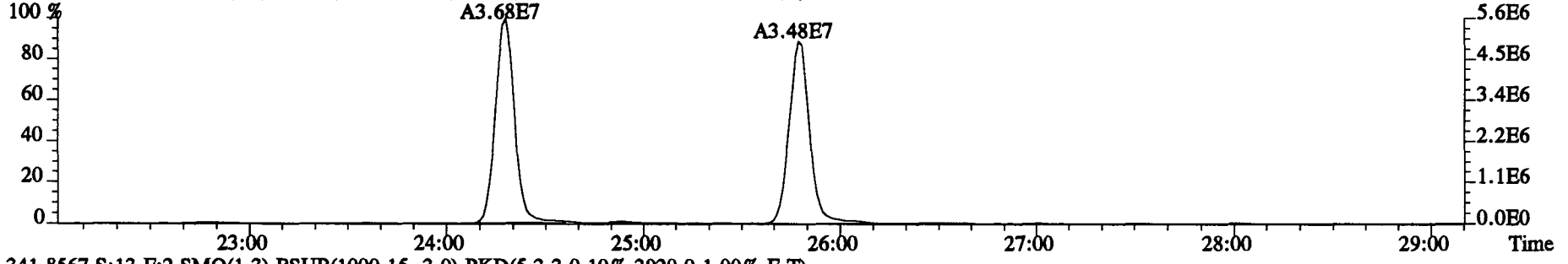


File:15DE109D5 #1-464 Acq:15-DEC-2010 18:38:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:MCCX2-1-AD :G0L110441-2DCS Exp:DIOXINRES

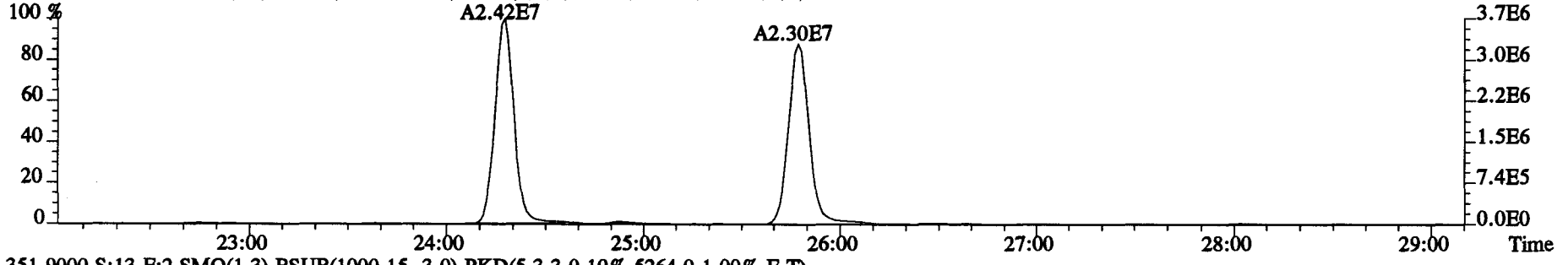


File:15DE109D5 #1-459 Acq:15-DEC-2010 18:38:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:MCCX2-1-AD :G0L110441-2DCS Exp:DIOXINRES

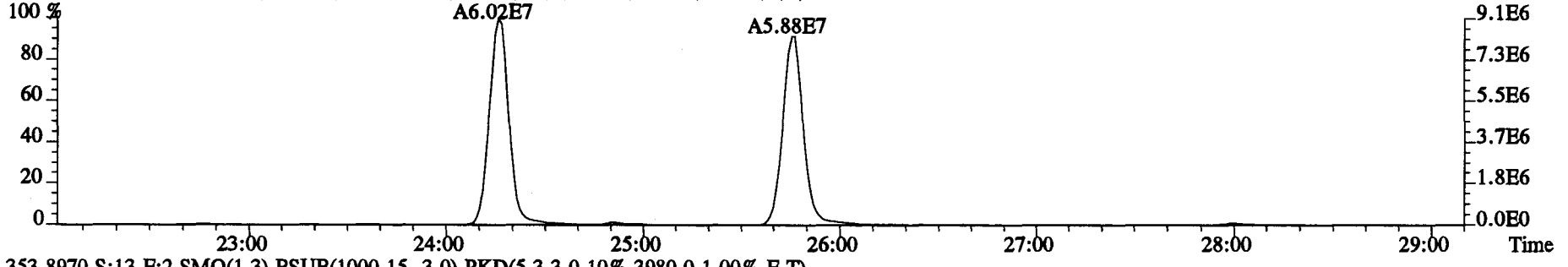
339.8597 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8016.0,1.00%,F,T)



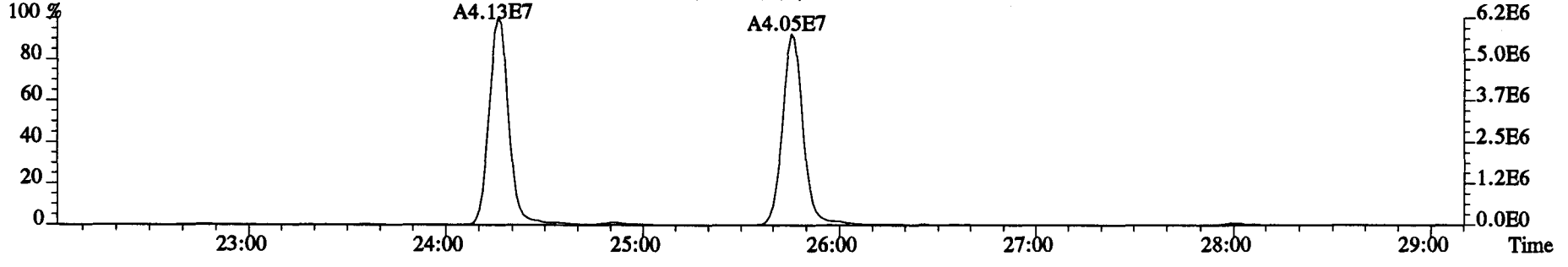
341.8567 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3920.0,1.00%,F,T)



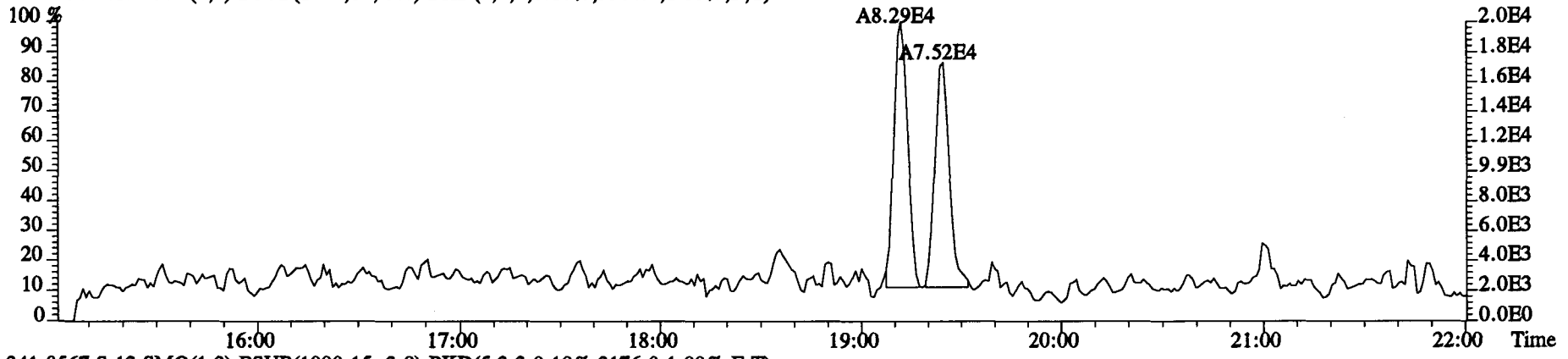
351.9000 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5264.0,1.00%,F,T)



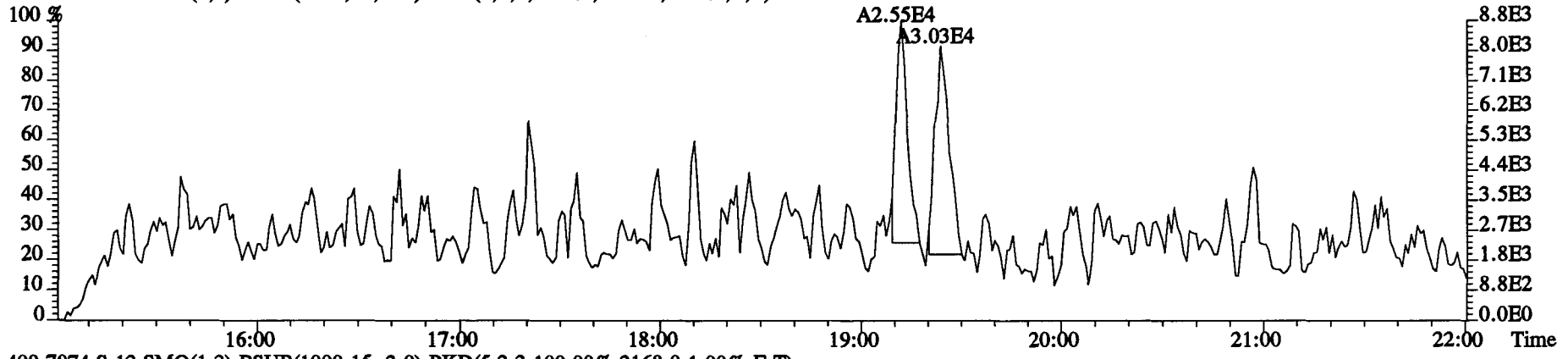
353.8970 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3980.0,1.00%,F,T)



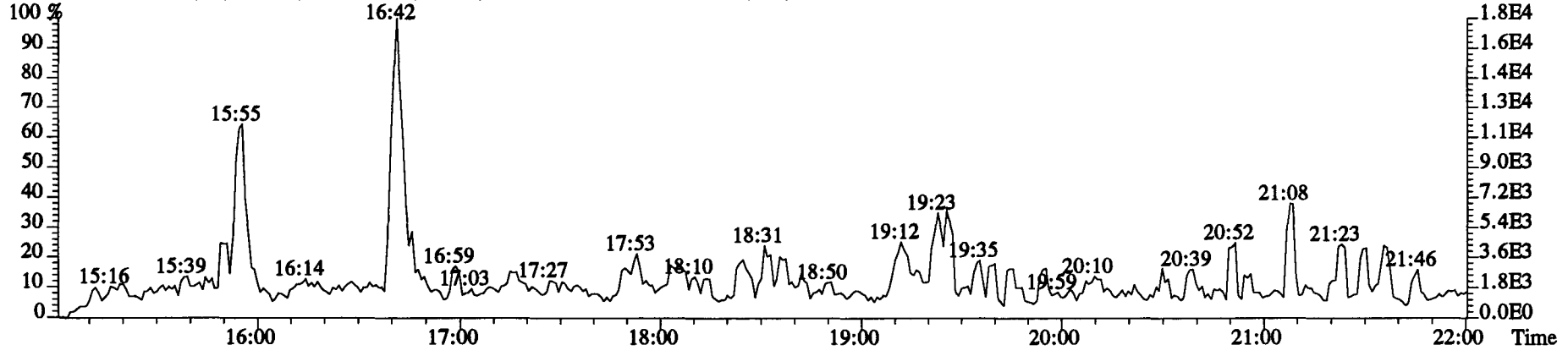
File:15DE109D5 #1-464 Acq:15-DEC-2010 18:38:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:MCCX2-1-AD :G0L110441-2DCS Exp:DIOXINRES
339.8597 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3364.0,1.00%,F,T)



341.8567 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3176.0,1.00%,F,T)

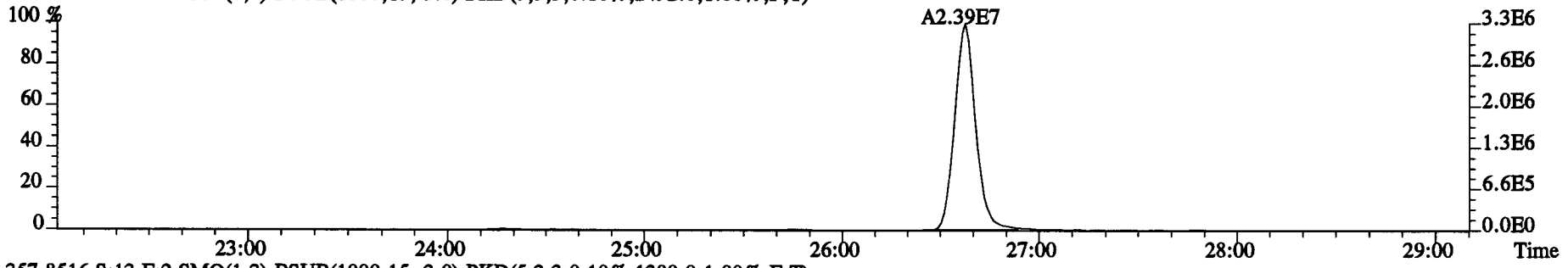


409.7974 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2168.0,1.00%,F,T)

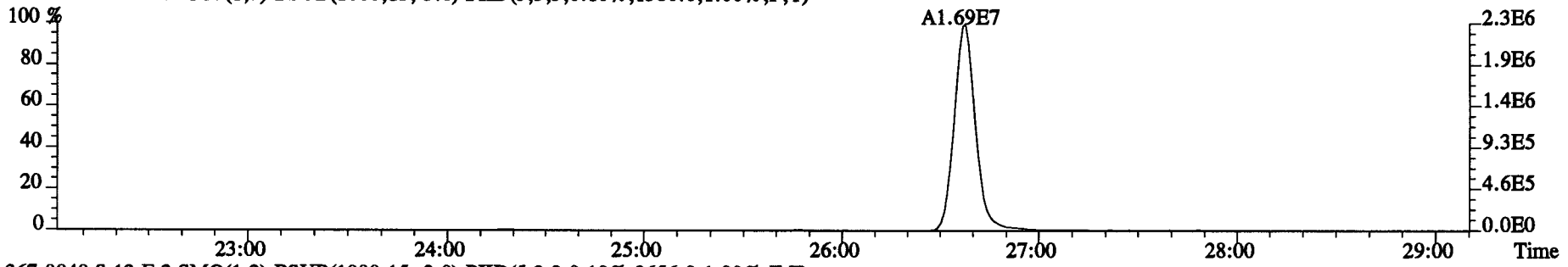


File:15DE109D5 #1-459 Acq:15-DEC-2010 18:38:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:MCCX2-1-AD :G0L110441-2DCS Exp:DIOXINRES

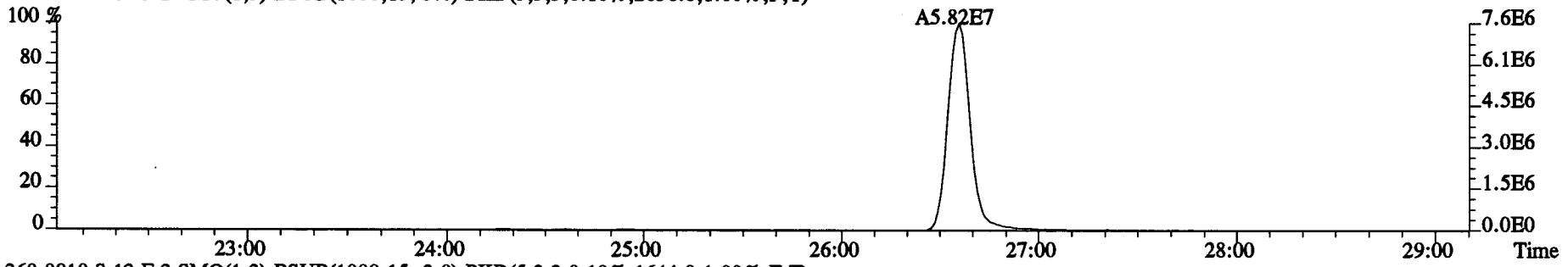
355.8546 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2492.0,1.00%,F,T)



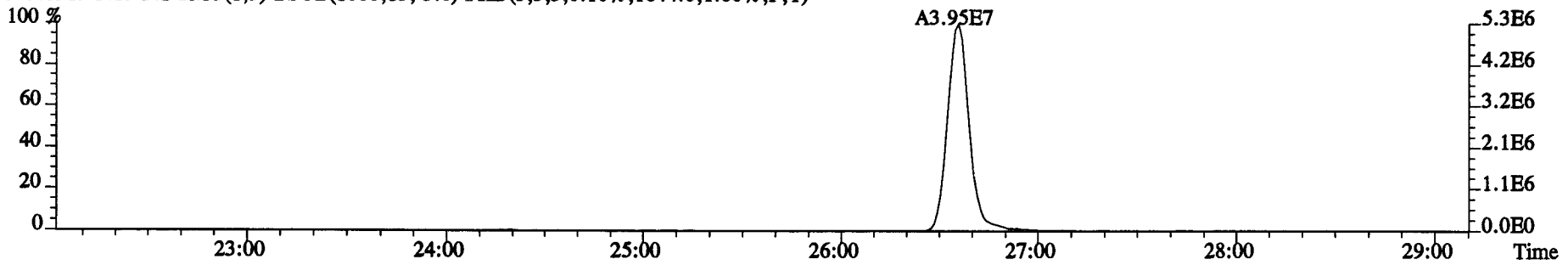
357.8516 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1380.0,1.00%,F,T)



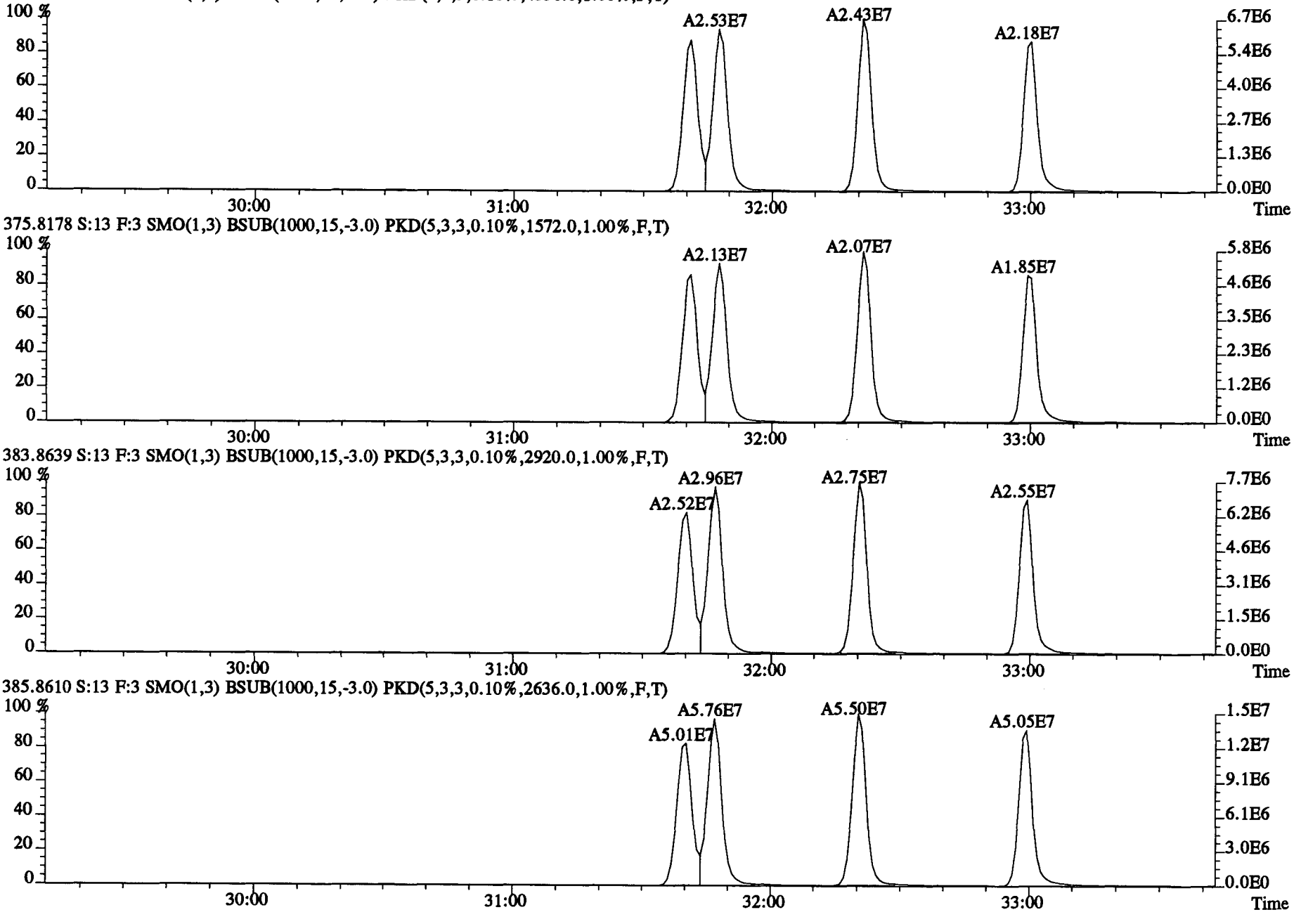
367.8949 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2656.0,1.00%,F,T)



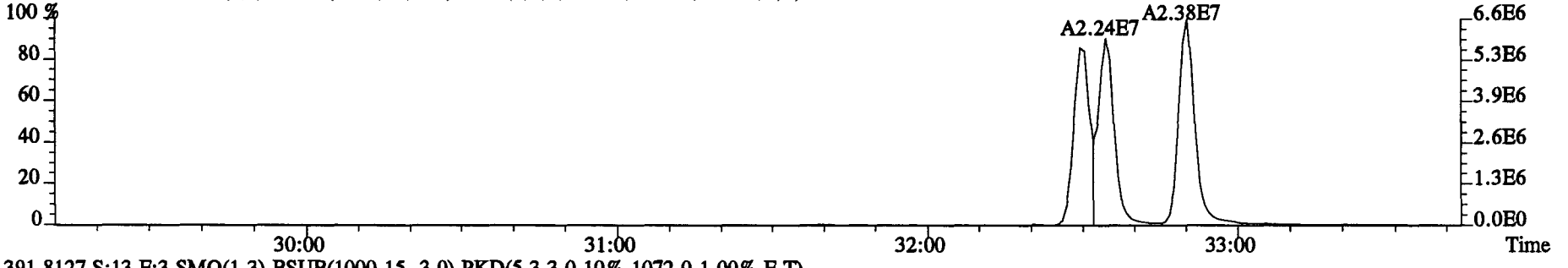
369.8919 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1644.0,1.00%,F,T)



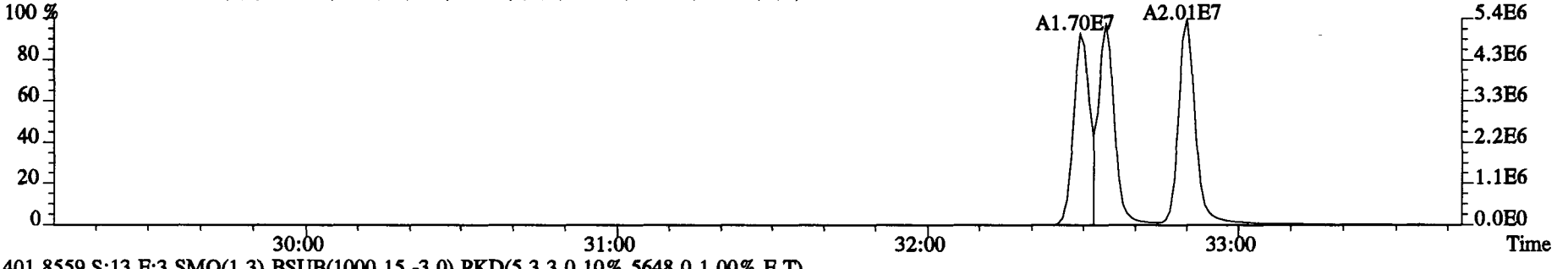
File:15DE109D5 #1-326 Acq:15-DEC-2010 18:38:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:MCCX2-1-AD :G0L110441-2DCS Exp:DIOXINRES



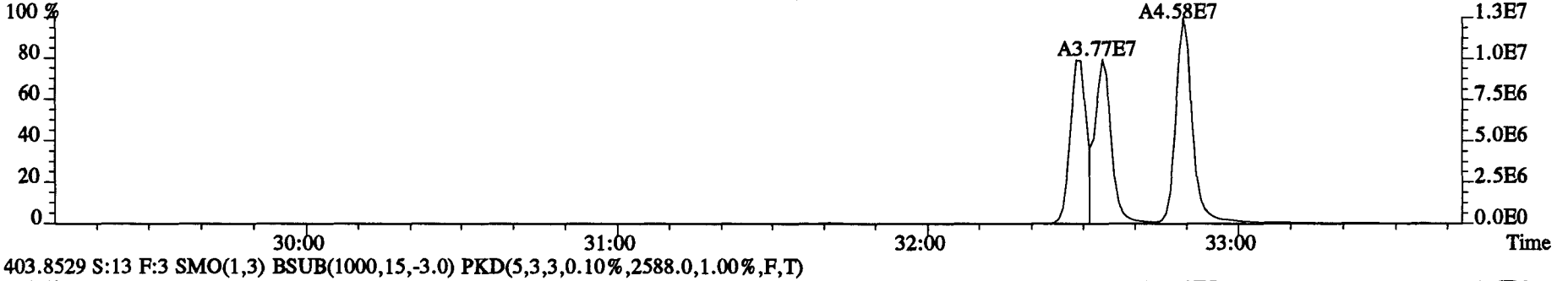
File:15DE109D5 #1-326 Acq:15-DEC-2010 18:38:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:MCCX2-1-AD :G0L110441-2DCS Exp:DIOXINRES
389.8157 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1268.0,1.00%,F,T)



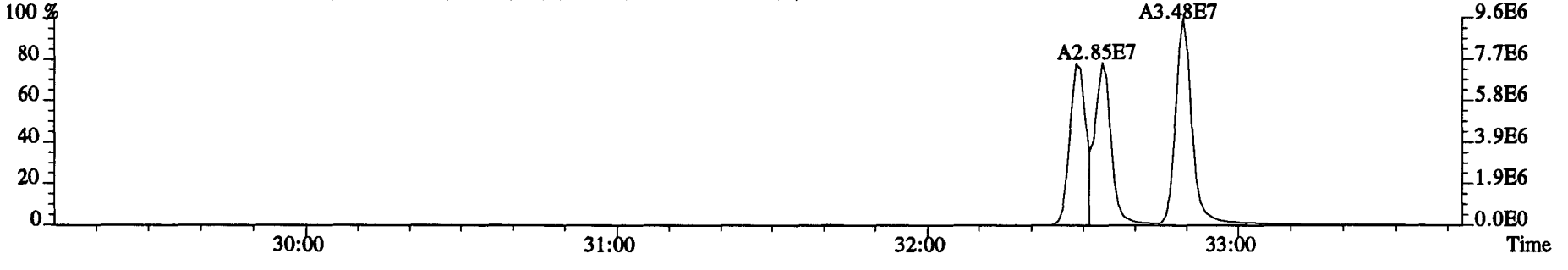
391.8127 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1072.0,1.00%,F,T)



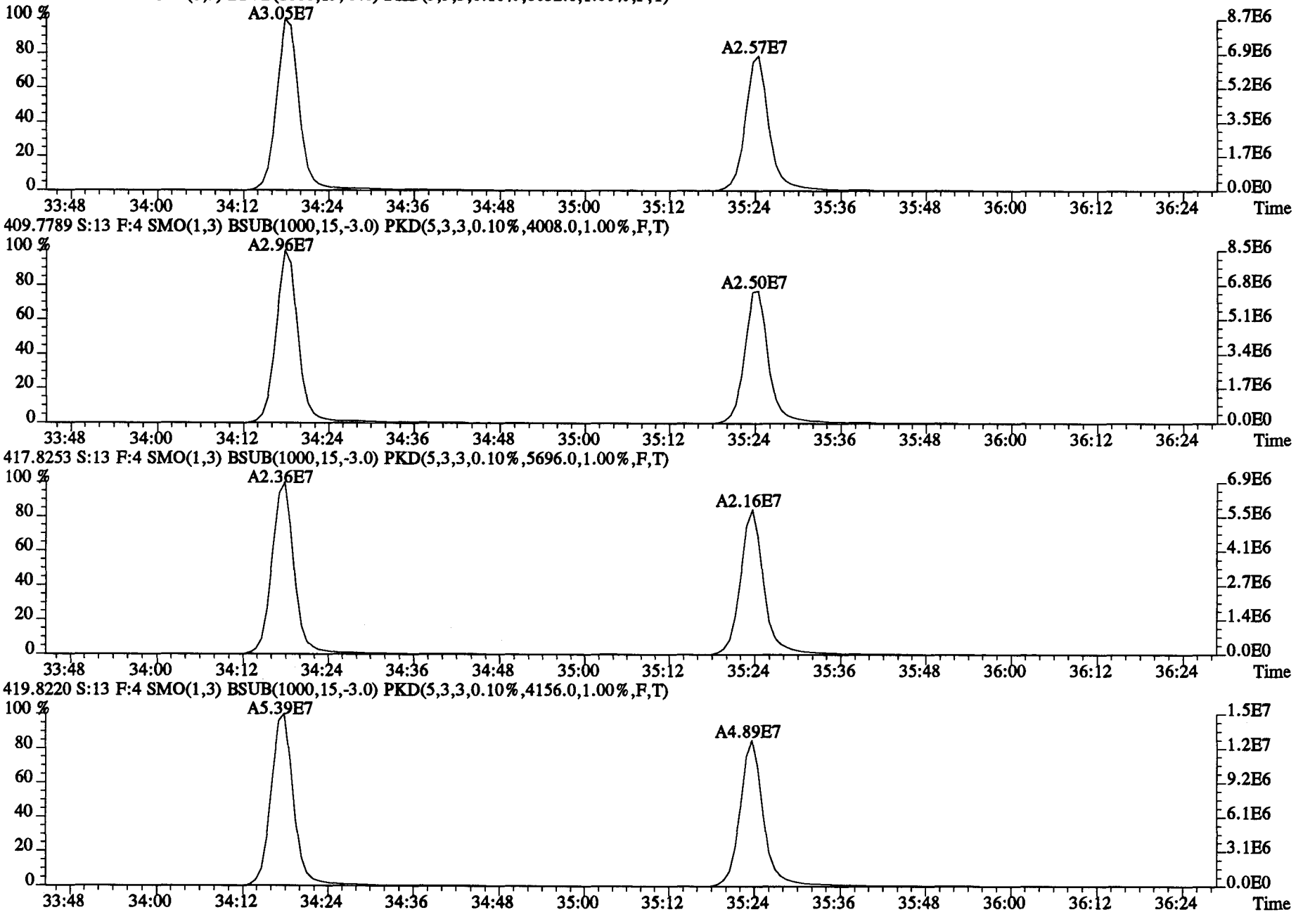
401.8559 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5648.0,1.00%,F,T)



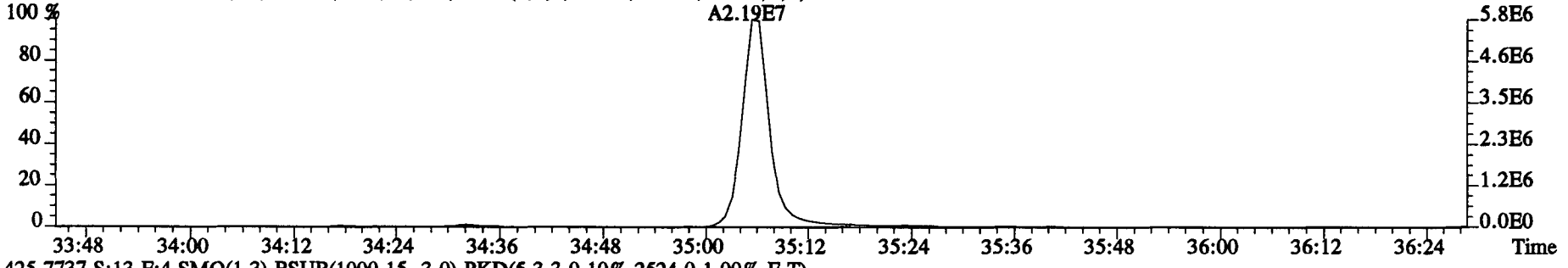
403.8529 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2588.0,1.00%,F,T)



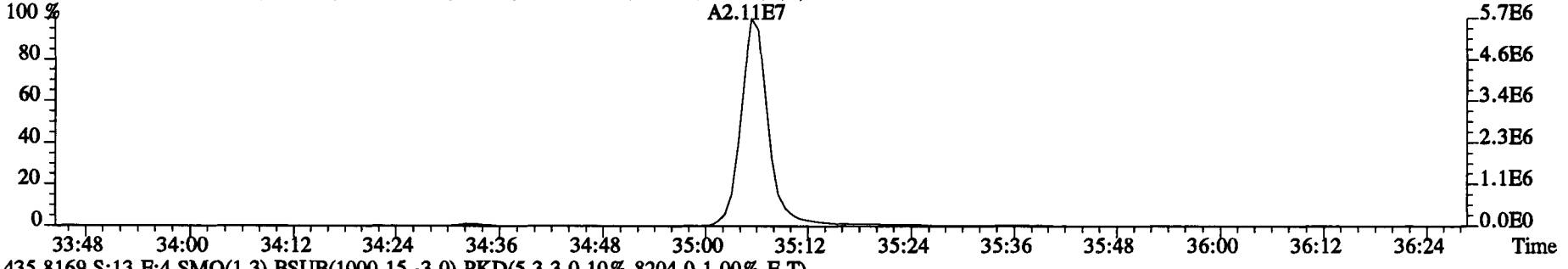
File:15DE109D5 #1-208 Acq:15-DEC-2010 18:38:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:MCCX2-1-AD :G0L110441-2DCS Exp:DIOXINRES



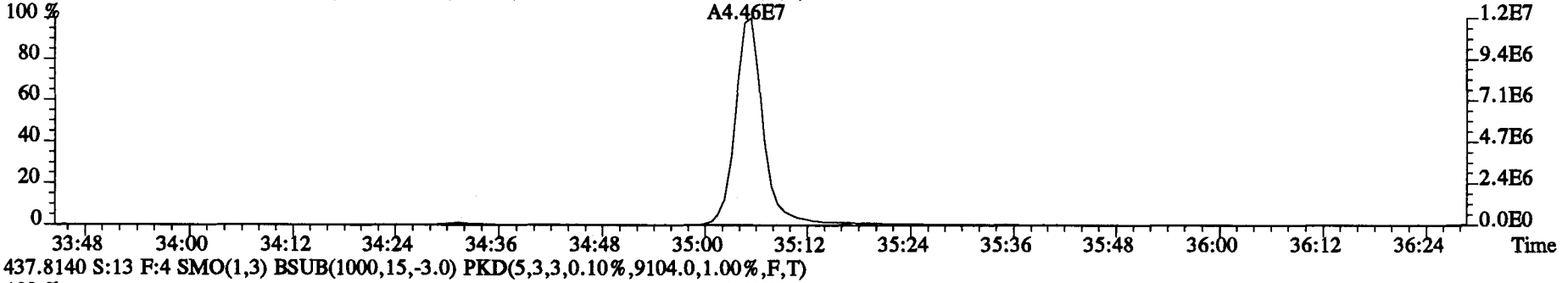
File:15DE109D5 #1-208 Acq:15-DEC-2010 18:38:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:MCCX2-1-AD :G0L110441-2DCS Exp:DIOXINRES
423.7766 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2836.0,1.00%,F,T)



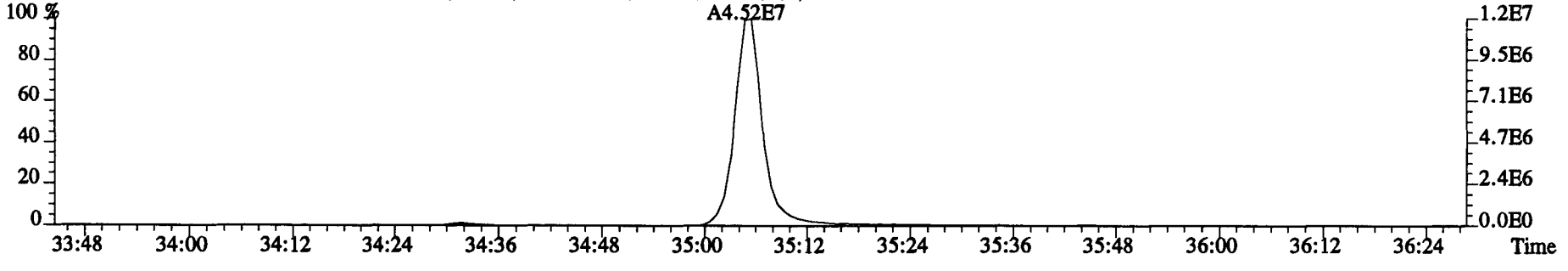
425.7737 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2524.0,1.00%,F,T)



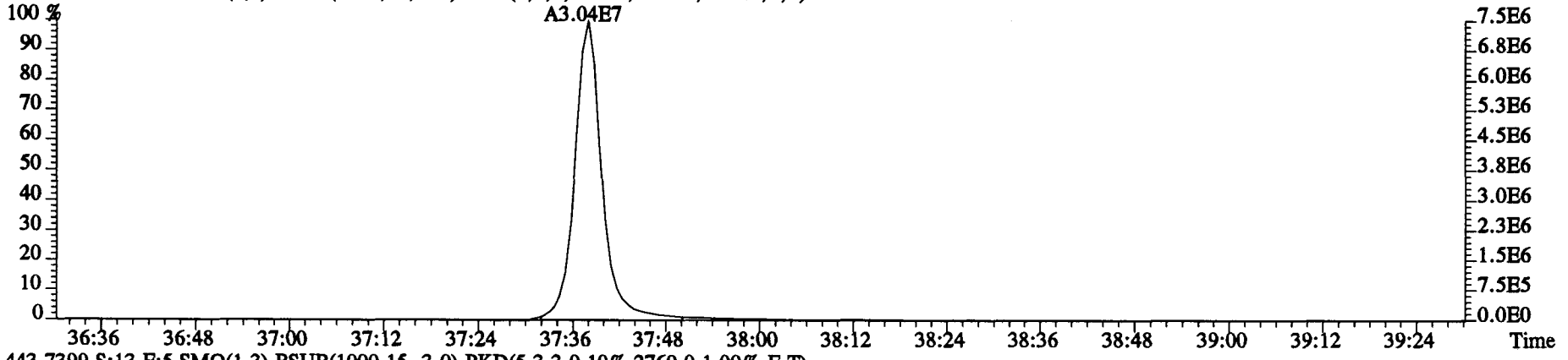
435.8169 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8204.0,1.00%,F,T)



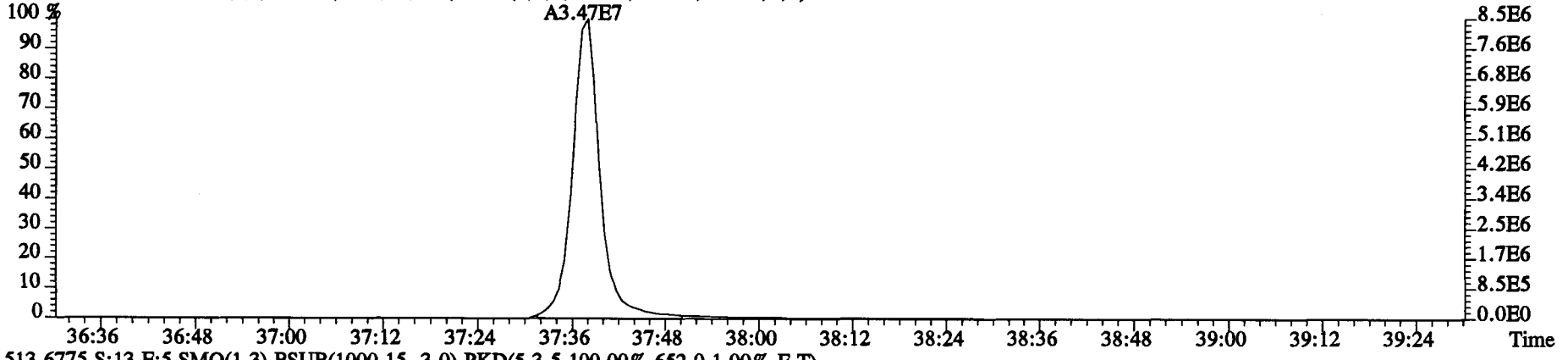
437.8140 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9104.0,1.00%,F,T)



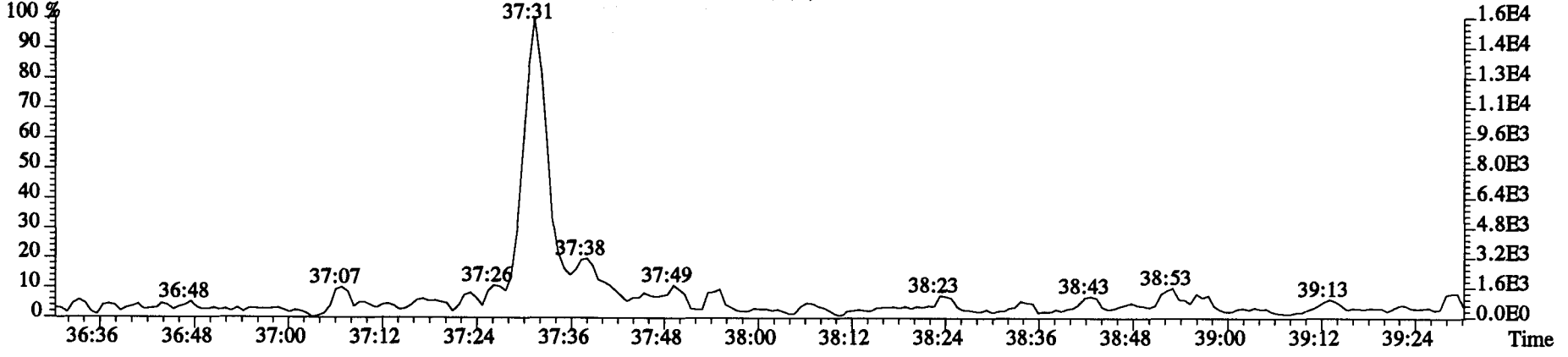
File:15DE109D5 #1-243 Acq:15-DEC-2010 18:38:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:MCCX2-1-AD :G0L110441-2DCS Exp:DIOXINRES
441.7428 S:13 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1596.0,1.00%,F,T)



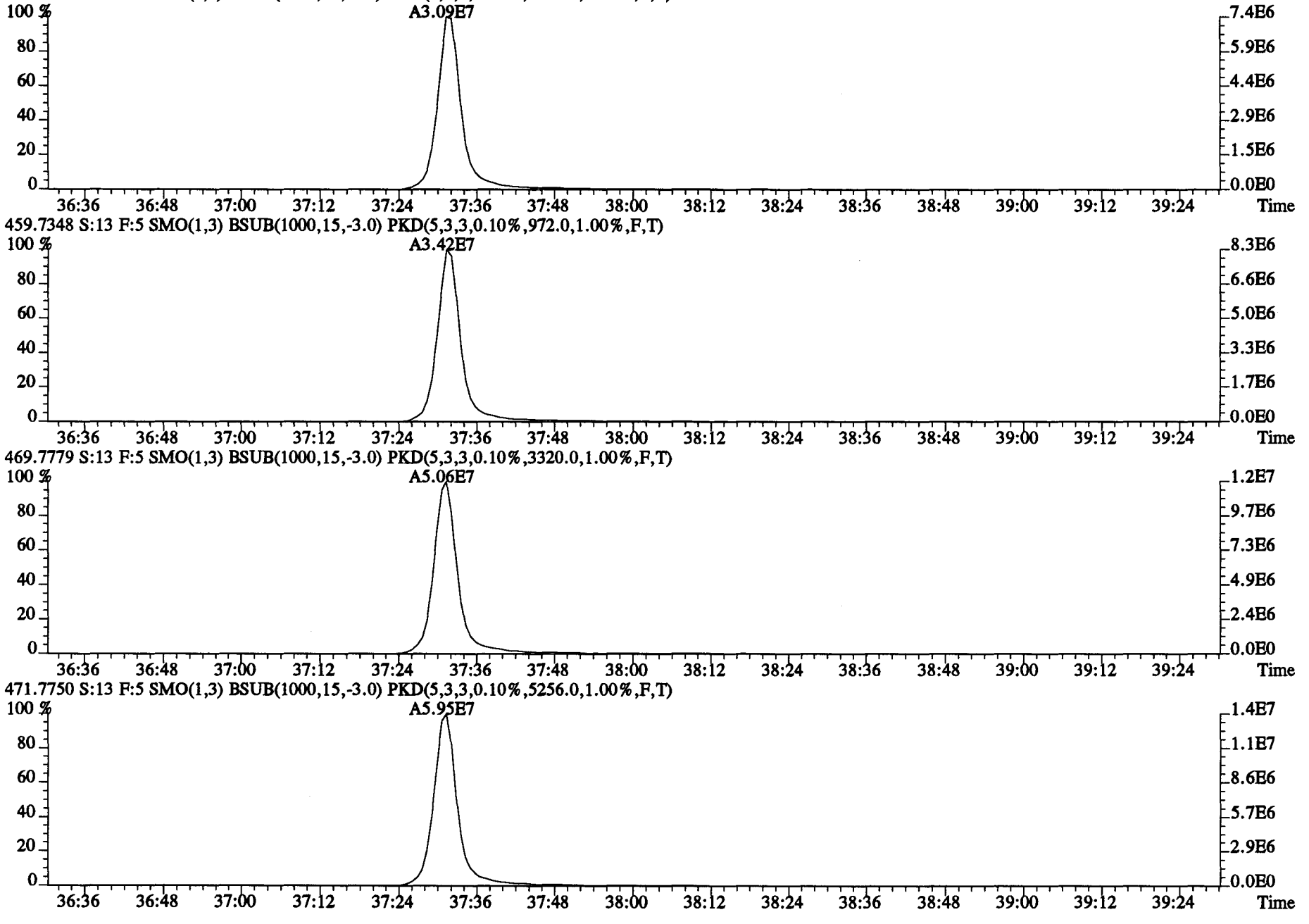
443.7399 S:13 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2760.0,1.00%,F,T)



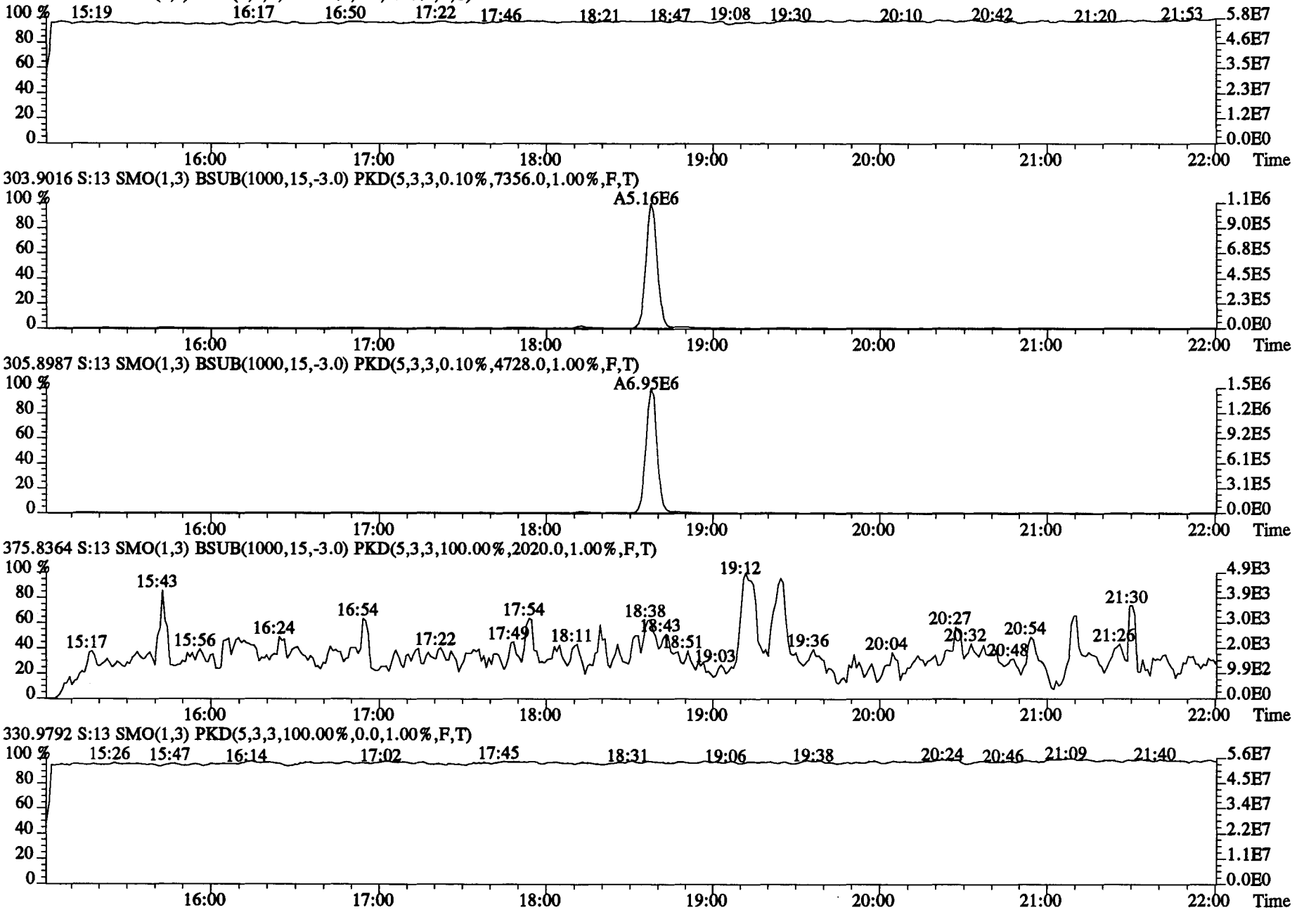
513.6775 S:13 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,652.0,1.00%,F,T)



File:15DE109D5 #1-243 Acq:15-DEC-2010 18:38:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:MCCX2-1-AD :G0L110441-2DCS Exp:DIOXINRES

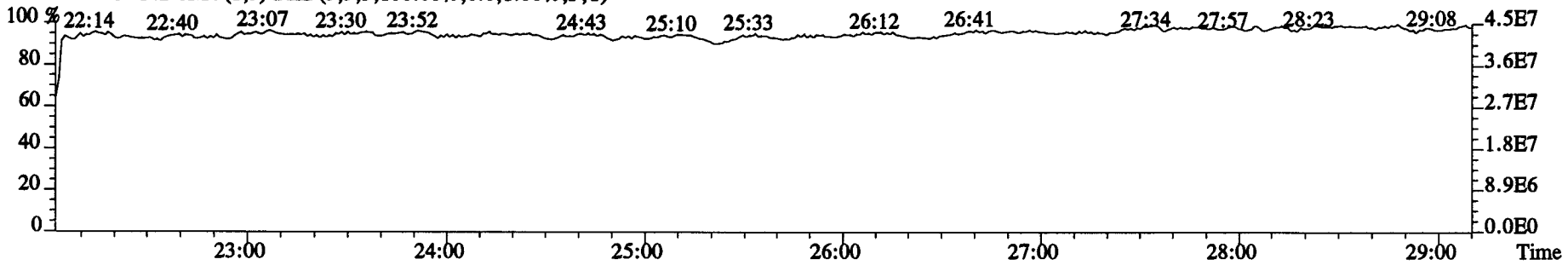


File:15DE109D5 #1-464 Acq:15-DEC-2010 18:38:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:MCCX2-1-AD :G0L110441-2DCS Exp:DIOXINRES

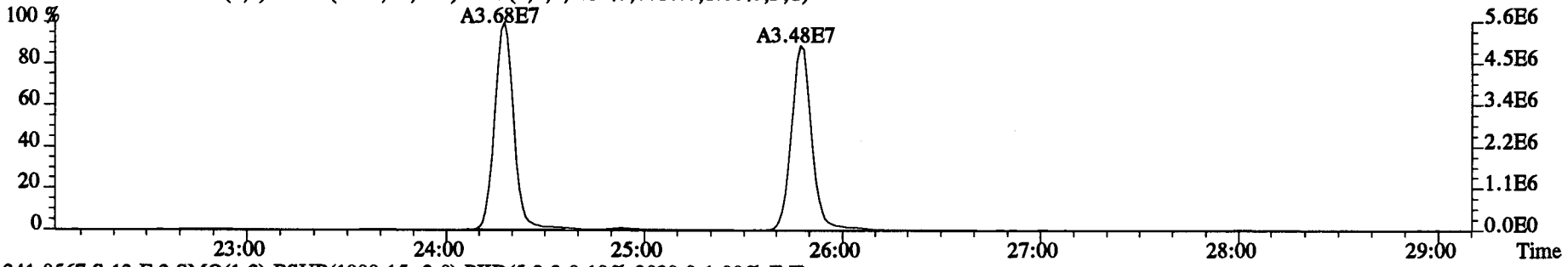


File:15DE109D5 #1-459 Acq:15-DEC-2010 18:38:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:MCCX2-1-AD :G0L110441-2DCS Exp:DIOXINRES

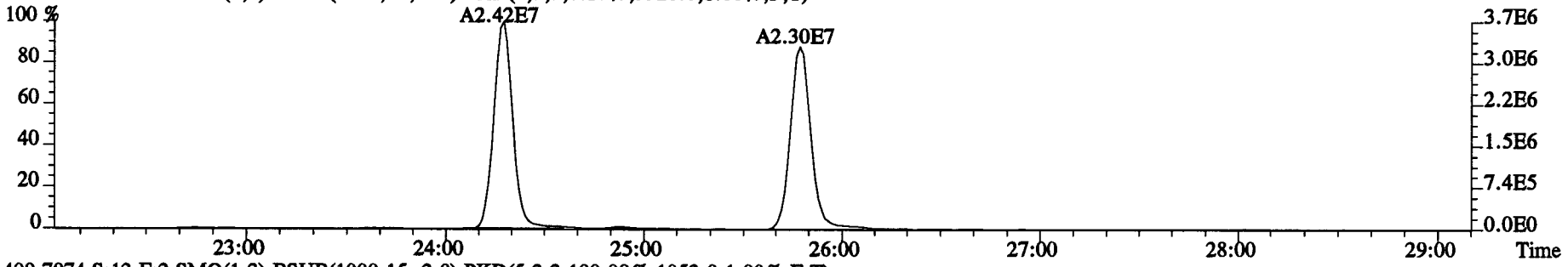
342.9792 S:13 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



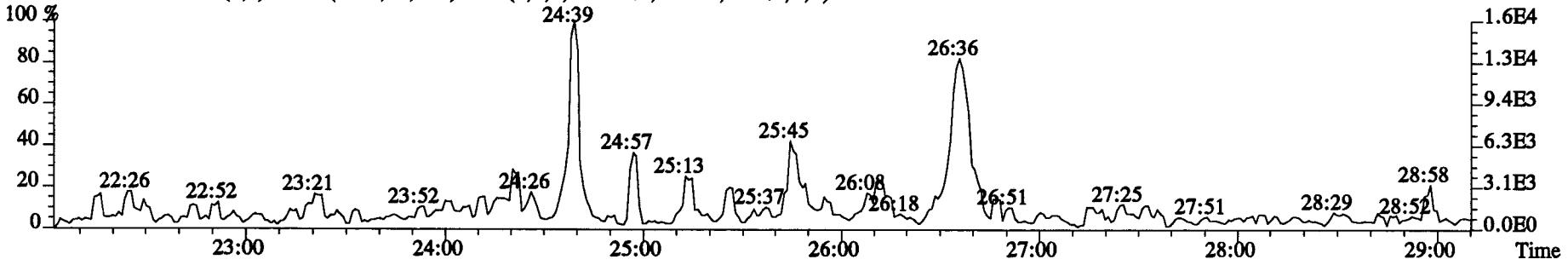
339.8597 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8016.0,1.00%,F,T)



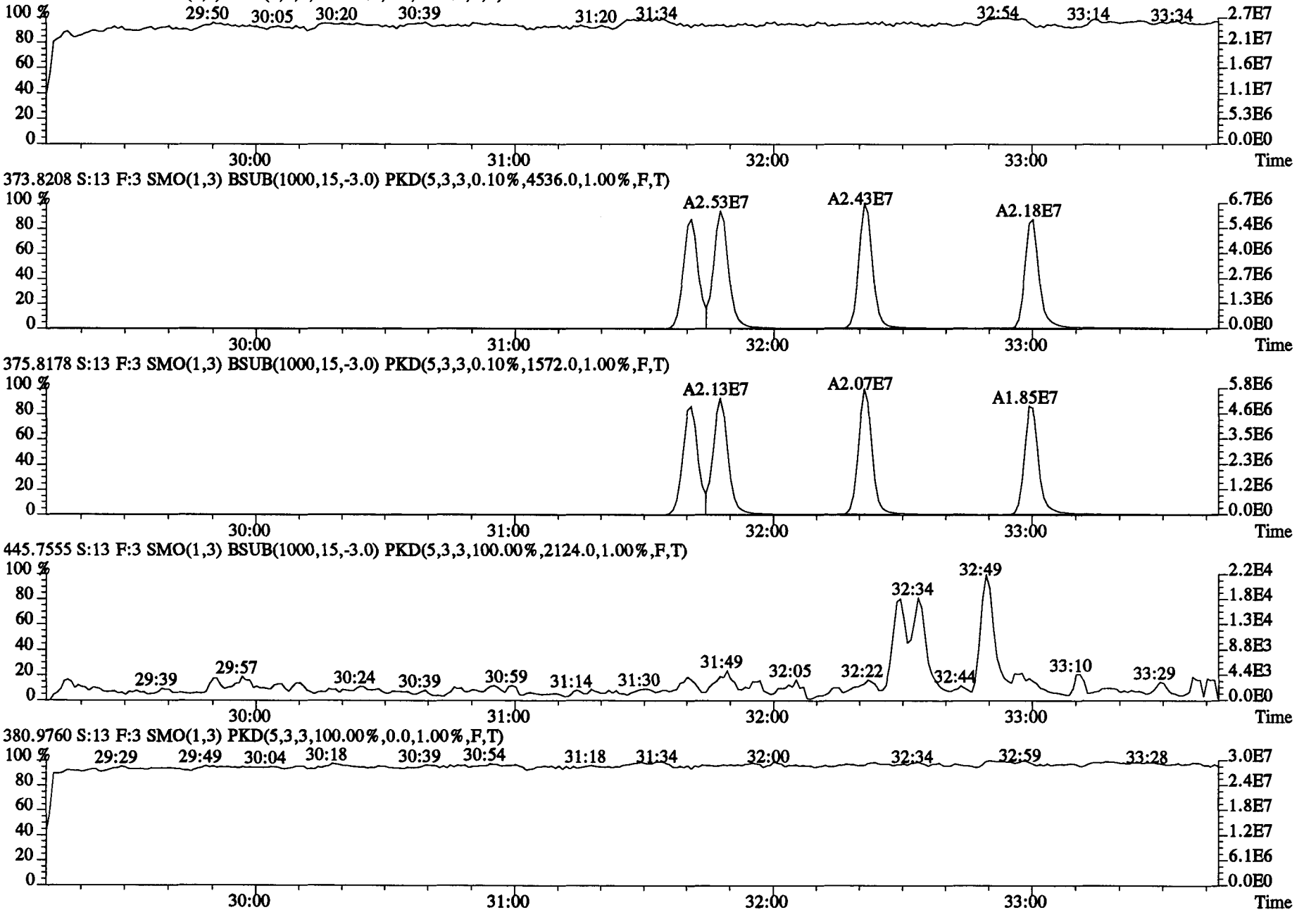
341.8567 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3920.0,1.00%,F,T)



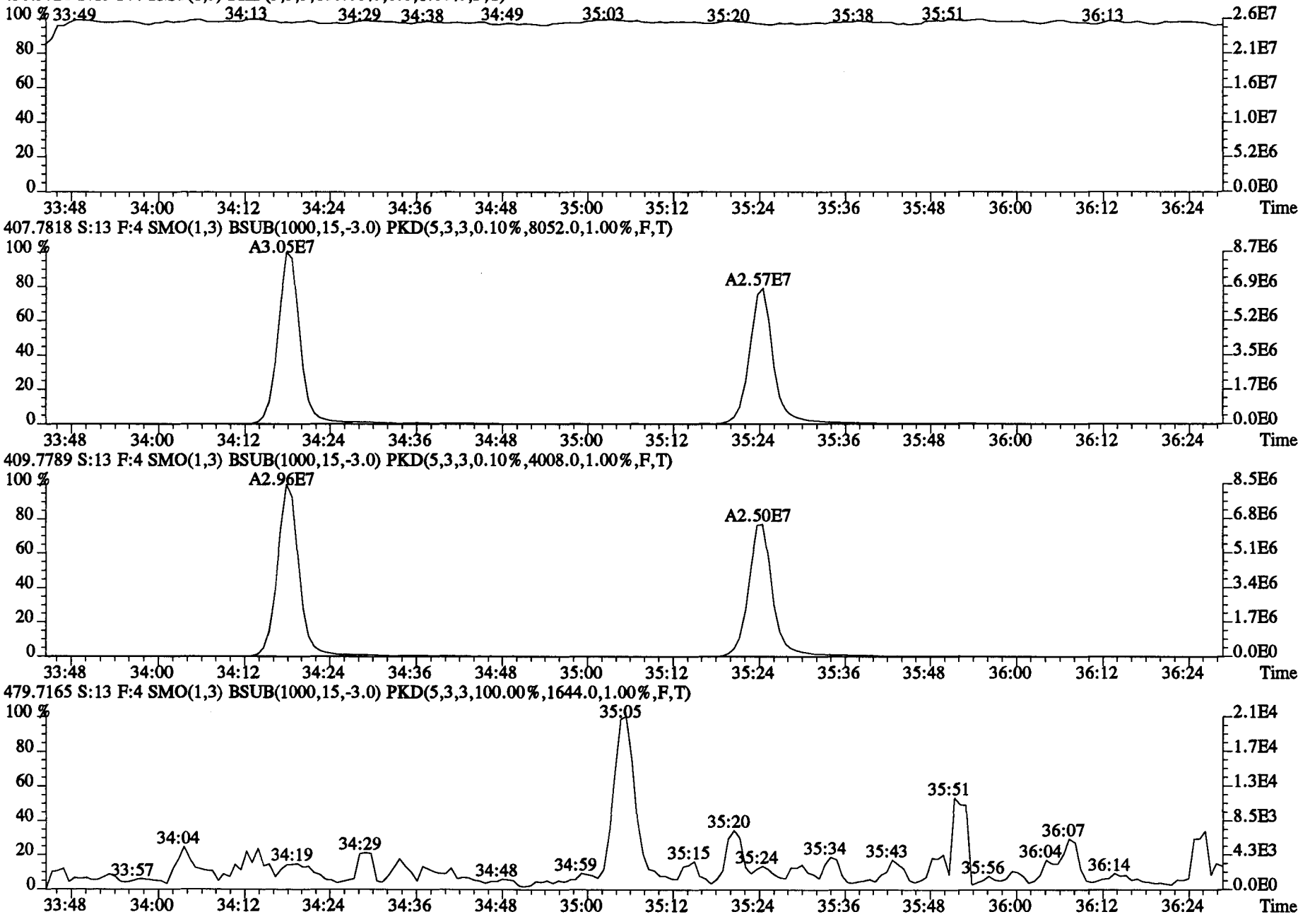
409.7974 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1052.0,1.00%,F,T)



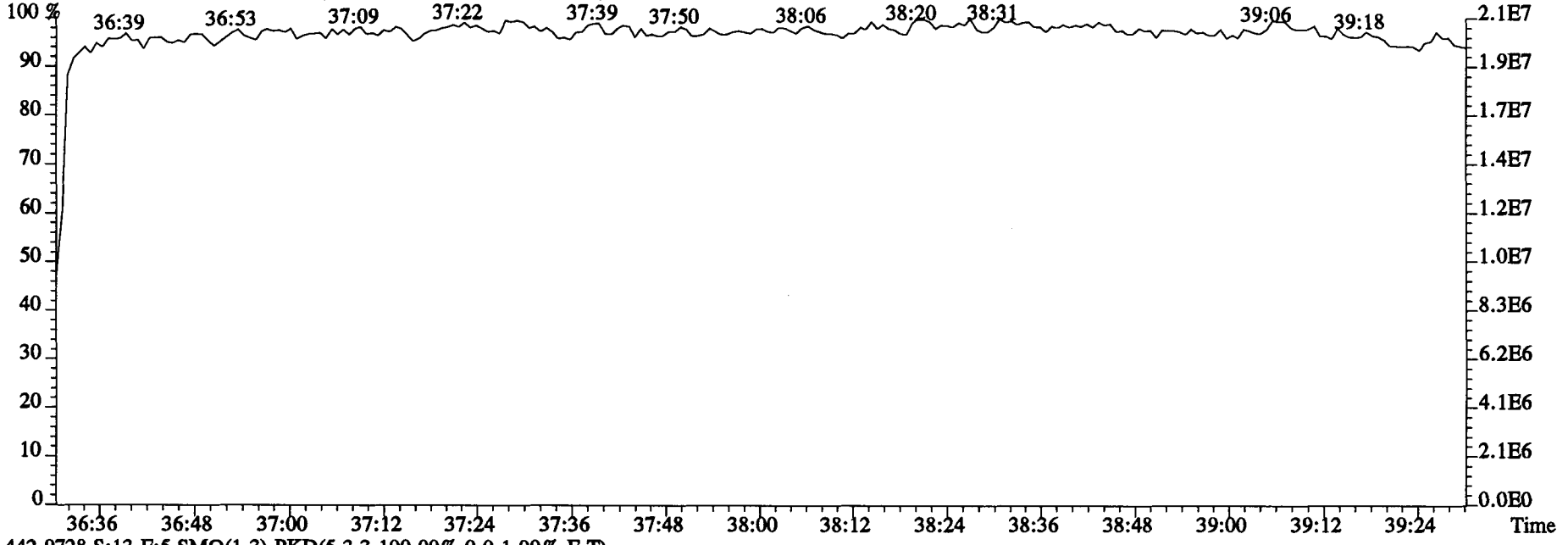
File:15DE109D5 #1-326 Acq:15-DEC-2010 18:38:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:MCCX2-1-AD :G0L110441-2DCS Exp:DIOXINRES



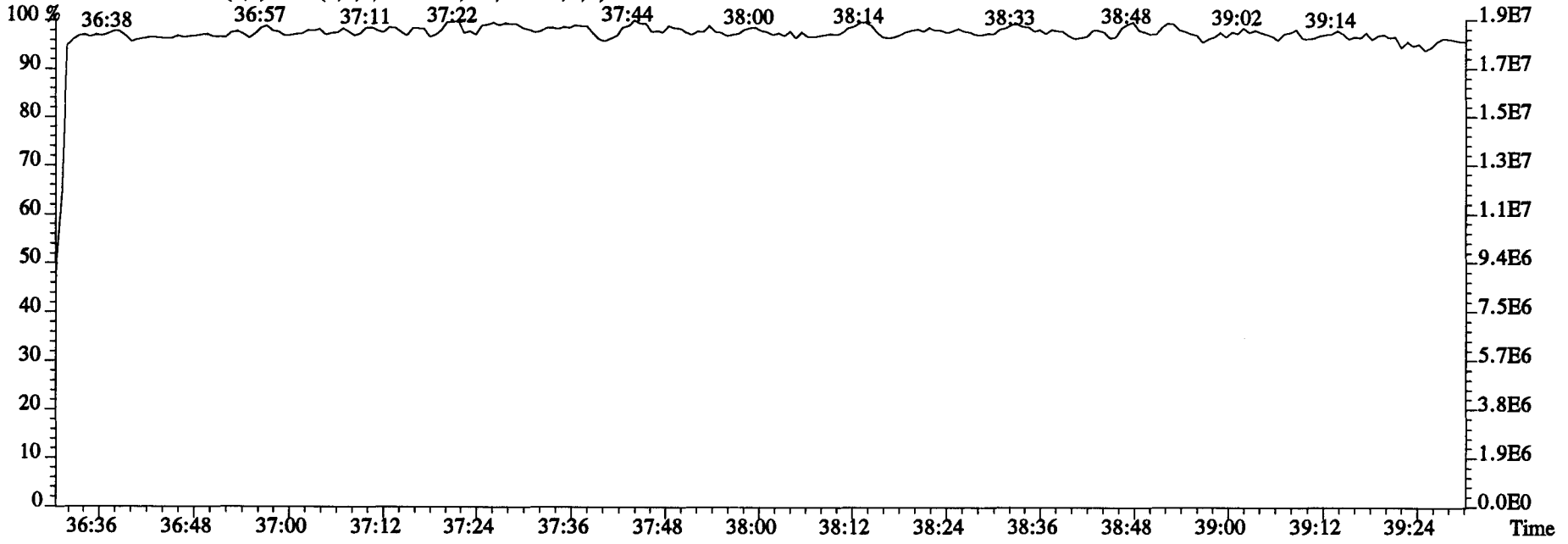
File:15DE109D5 #1-208 Acq:15-DEC-2010 18:38:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:MCCX2-1-AD :G0L110441-2DCS Exp:DIOXINRES



File:15DE109D5 #1-243 Acq:15-DEC-2010 18:38:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:MCCX2-1-AD :G0L110441-2DCS 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)



Run text: MA8DF-1-AA Sample text: MA8DF-1-AA :G0L110441-2
Run #8 Filename: 15DE109D5 S: 8 I: 1 Results: 15DE109D5TO9SY
Acquired: 15-DEC-10 14:59:31 Processed: 15-DEC-10 15:41:08
Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.50 SAMP

BD 12/16/10

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	130328400	0.74	y	19:12	-	165.18	-	-	n
13C-2,3,7,8-TCDF	129784900	0.79	y	18:37	1.11	3575.80 /	2.79	89.4	n
2,3,7,8-TCDF	452531	0.79	y	18:38	0.88	J 15.80 /	7.64	-	n
Total TCDF	1089504	0.53	n	16:47	0.88	~~38.03~~ 26.415	7.64	-	n
13C-2,3,7,8-TCDD	116625500	0.75	y	19:25	0.97	3682.63	9.29	92.1	n
2,3,7,8-TCDD	15774	0.25	n	19:26	0.87	~~0.62~~	2.61	-	n
Total TCDD	167759	0.89	n	16:56	0.87	~~6.60~~	2.61	-	n
37Cl-2,3,7,8-TCDD	54324600	1.00	y	19:26	1.22	1522.73	1.87	95.2	n
13C-1,2,3,7,8-PeCDF	107215800	1.49	y	24:17	0.92	3572.83	6.24	89.3	n
1,2,3,7,8-PeCDF	168645	1.09	n	24:18	1.06	~~5.91~~	8.09	-	n
2,3,4,7,8-PeCDF	*	*	n	NotFnd	1.03	*	8.38	-	n
Total F2 PeCDF	668621	5.05	n	22:07	1.05	~~23.74~~	8.23	-	n
Total F1 PeCDF	275450	3.13	n	19:12	1.05	~~9.82~~ 19.155	~~4.77~~	-	n
13C-1,2,3,7,8-PeCDD	99768300	1.51	y	26:36	0.83	3691.91	2.50	92.3	n
1,2,3,7,8-PeCDD	*	*	n	NotFnd	0.79	*	4.33	-	n
Total PeCDD	78726	2.78	n	24:17	0.79	~~5.98~~	4.33	-	n
13C-1,2,3,7,8,9-HxCDD	79492800	1.27	y	32:49	-	154.91	-	-	n
13C-1,2,3,4,7,8-HxCDF	77922600	0.49	y	31:40	1.07	3657.13	3.83	91.4	n
1,2,3,4,7,8-HxCDF	251825	0.91	n	31:41	1.06	JQ 12.16 /	3.99	-	y
1,2,3,6,7,8-HxCDF	222082	1.13	y	31:49	1.12	J 10.16 /	3.78	-	y
2,3,4,6,7,8-HxCDF	42084	2.00	n	32:22	1.05	~~2.06~~	4.05	-	y
1,2,3,7,8,9-HxCDF	22320	1.90	n	33:00	0.95	~~1.20~~	4.46	-	y
Total HxCDF	1193102	1.19	y	30:19	1.05	~~57.72~~ 49.68	4.06	-	y
13C-1,2,3,6,7,8-HxCDD	67857600	1.34	y	32:34	0.89	3844.92	6.38	96.1	n
1,2,3,4,7,8-HxCDD	16941	0.72	n	32:29	1.11	~~0.90~~	1.50	-	y
1,2,3,6,7,8-HxCDD	27339	1.30	y	32:34	1.16	~~1.39~~	1.44	-	y
1,2,3,7,8,9-HxCDD	31677	1.28	y	32:50	1.20	1.55 DL	~~1.39~~	-	n
Total HxCDD	298207	2.52	n	31:40	1.16	~~15.15~~ 5.32 12.70	1.45	-	y
13C-1,2,3,4,6,7,8-HpCDF	79698600	0.44	y	34:18	0.95	4229.97	12.12	105.7	n
1,2,3,4,6,7,8-HpCDF	1160509	1.12	y	34:19	1.44	J 40.58 /	2.02	-	n
1,2,3,4,7,8,9-HpCDF	309211	1.10	y	35:25	1.23	J 12.65 /	2.36	-	n
Total HpCDF	2092049	1.12	y	34:19	1.33	76.70 /	2.17	-	n
13C-1,2,3,4,6,7,8-HpCDD	88448200	1.00	y	35:05	1.08	4138.81 /	5.92	103.5	n
1,2,3,4,6,7,8-HpCDD	216999	0.96	y	35:06	0.90	J 10.96	0.88	-	n
Total HpCDD	448190	3.94	n	34:18	0.90	19.717 ~~22.64~~	0.88	-	n
13C-OCDD	113850300	0.86	y	37:31	0.69	8304.47	5.17	103.8	n
OCDF	1992569	0.84	y	37:38	1.18	J 118.65 /	2.57	-	n

OCDD	543400	0.97	y	37:32	1.14	J	33.54	2.84	- n

Run text: MA8DF-1-AA Sample text: MA8DF-1-AA :G0L110441-2
Run #8 Filename: 15DE109D5 S: 8 I: 1 Results: 15DE109D5TO9
Acquired: 15-DEC-10 14:59:31 Processed: 15-DEC-10 15:41:08
Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5
Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	130328348	0.74	y	19:12	-	165.184	-	-	n
13C-2,3,7,8-TCDF	129784880	0.79	y	18:37	1.11	3575.798	2.795	89.4	n
2,3,7,8-TCDF	452531	0.79	y	18:38	0.88	15.797 /	7.635	-	n
Total TCDF	1089504	0.53	n	16:47	0.88	~~38.032~~ 26.415	7.635	-	n
13C-2,3,7,8-TCDD	116625532	0.75	y	19:25	0.97	3682.632	9.288	92.1	n
2,3,7,8-TCDD	15774	0.25	n	19:26	0.87	~~0.621~~	2.610	-	n
Total TCDD	167759	0.89	n	16:56	0.87	~~6.602~~	2.610	-	n
37Cl-2,3,7,8-TCDD	54324680	1.00	y	19:26	1.22	1522.736	1.873	95.2	n
13C-1,2,3,7,8-PeCDF	107215844	1.49	y	24:17	0.92	3572.832	6.236	89.3	n
1,2,3,7,8-PeCDF	168646	1.09	n	24:18	1.06	~~5.910~~	8.091	-	n
2,3,4,7,8-PeCDF	*	*	n	NotFnd	1.03	*	8.383	-	n
Total F2 PeCDF	668621	5.05	n	22:07	1.05	~~23.742~~	8.235	-	n
Total F1 PeCDF	275450	3.13	n	19:12	1.05	19.155 ~~9.824~~	~~4.772~~	-	n
13C-1,2,3,7,8-PeCDD	99768292	1.51	y	26:36	0.83	3691.908	2.495	92.3	n
1,2,3,7,8-PeCDD	*	*	n	NotFnd	0.79	*	4.327	-	n
Total PeCDD	78726	2.78	n	24:17	0.79	~~3.980~~	4.327	-	n
13C-1,2,3,7,8,9-HxCDD	79492844	1.27	y	32:49	-	154.913	-	-	n
13C-1,2,3,4,7,8-HxCDF	77922558	0.49	y	31:40	1.07	3657.124	3.828	91.4	n
1,2,3,4,7,8-HxCDF	273391	0.87	n	31:41	1.06	13.205	3.993	-	n
1,2,3,6,7,8-HxCDF	197910	1.05	n	31:49	1.12	9.058	3.784	-	n
2,3,4,6,7,8-HxCDF	*	*	n	NotFnd	1.05	*	4.049	-	n
1,2,3,7,8,9-HxCDF	*	*	n	NotFnd	0.95	*	4.455	-	n
Total HxCDF	1122062	1.19	y	30:19	1.05	54.191	4.056	-	n
13C-1,2,3,6,7,8-HxCDD	67857596	1.34	y	32:34	0.89	3844.913	6.379	96.1	n
1,2,3,4,7,8-HxCDD	26648	2.13	n	~~32:34~~	1.11	~~1.411~~	1.504	-	n
1,2,3,6,7,8-HxCDD	26648	2.13	n	32:34	1.16	~~1.355~~	1.444	-	n
1,2,3,7,8,9-HxCDD	31677	1.28	y	32:50	1.20	1.554	1.393	-	n
Total HxCDD	324656	3.24	n	31:09	1.16	16.464	1.446	-	n
13C-1,2,3,4,6,7,8-HpCDF	79698610	0.44	y	34:18	0.95	4229.968	12.123	105.7	n
1,2,3,4,6,7,8-HpCDF	1160509	1.12	y	34:19	1.44	40.582	2.016	-	n
1,2,3,4,7,8,9-HpCDF	309211	1.10	y	35:25	1.23	12.651	2.359	-	n
Total HpCDF	2092049	1.12	y	34:19	1.33	76.701	2.174	-	n
13C-1,2,3,4,6,7,8-HpCDD	88448168	1.00	y	35:05	1.08	4138.803	5.922	103.5	n
1,2,3,4,6,7,8-HpCDD	216998	0.96	y	35:06	0.90	10.961	0.876	-	n
Total HpCDD	448190	3.94	n	34:18	0.90	22.639	0.876	-	n
13C-OCDD	113850360	0.86	y	37:31	0.69	8304.474	5.175	103.8	n

OCDF	1992574	0.84	y	37:38	1.18	118.654	2.569	- n
OCDD	543400	0.97	y	37:32	1.14	33.537	2.836	- n

Run Text: MA8DF-1-AA Sample text: MA8DF-1-AA :G0L110441-2

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:4
Run: 8 File: 15DE109D5 S:8 Acq:15-DEC-10 14:59:31
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	19.016 of which	7.898 named and	11.118	unnamed
Conc:	38.032 of which	15.797 named and	22.235	unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	16:47	0.530 n	10.618	132319	2.777	n	n
					249693	8.693	y	n
	2	17:38	0.372 n	4.014	50023	1.253	n	n
					134354	6.101	y	n
	3	18:13	0.622 n	7.604	94759	1.865	n	n
					152268	6.518	y	n
2,3,7,8-TCDF	4	18:38	0.792 y	15.797	199970	3.968	y	n
					252561	8.572	y	n

26.415

Run Text: MA8DF-1-AA Sample text: MA8DF-1-AA :G0L110441-2

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:5
Run: 8 File: 15DE109D5 S:8 Acq:15-DEC-10 14:59:31
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	3.301 of which	0.310 named and	2.990	unnamed
Conc:	6.602 of which	0.621 named and	5.981	unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	16:56	0.888 n	1.554	19819	2.307	n	n
					22314	3.032	y	n
	2	17:16	1.203 n	1.628	28126	2.656	n	n
					23379	2.786	n	n
	3	18:37	2.721 n	2.095	81840	8.362	y	n
					30082	3.628	y	n
	4	19:20	1.804 n	0.703	18205	2.263	n	n
					10093	1.268	n	n
2,3,7,8-TCDD	5	19:26	0.250 n	0.621	6862	0.926	n	n
					27419	2.555	n	n

Run Text: MA8DF-1-AA Sample text: MA8DF-1-AA :G0L110441-2

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:4
Run: 8 File: 15DE109D5 S:8 Acq:15-DEC-10 14:59:31
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	11.871 of which	2.955 named and	8.916	unnamed
Conc:	23.742 of which	5.910 named and	17.831	unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	22:07	5.050 n	1.275	70810	1.176	n	n
					14021	0.769	n	n
	2	22:32	2.175 n	2.511	60056	1.300	n	n
					27615	1.273	n	n
	3	22:46	1.248 n	14.045 ✓	239371	3.887	y	n
					191735	7.472	y	n
1,2,3,7,8-PeCDF	4	24:18	1.089 n	5.910	102510	2.385	n	n
					94116	4.727	y	n

Run Text: MA8DF-1-AA Sample text: MA8DF-1-AA :G0L110441-2

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:3
Run: 8 File: 15DE109D5 S:8 Acq:15-DEC-10 14:59:31
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	4.912 of which	* named and	4.912	unnamed
Conc:	9.824 of which	* named and	9.824	unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	19:12	3.134 n	2.254	77680	4.858	y	n
					24783	1.827	n	n
	2	19:25	2.935 n	2.460	79387	4.593	y	n
					27049	1.821	n	n
	3	20:60	1.499 y	5.110 ✓	85950	4.970	y	n
					57327	3.699	y	n

< 8.07
12/17/10
MC

Run Text: MA8DF-1-AA Sample text: MA8DF-1-AA :G0L110441-2

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:2
Run: 8 File: 15DE109D5 S:8 Acq:15-DEC-10 14:59:31
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	1.990 of which	* named and	1.990	unnamed
Conc:	3.980 of which	* named and	3.980	unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	24:17	2.776 n	3.104	66845	3.933	y	n
					24082	2.151	n	n
	2	25:46	8.218 n	0.875	55803	3.750	y	n
					6791	0.987	n	n

Run Text: MA8DF-1-AA Sample text: MA8DF-1-AA :G0L110441-2

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:7
Run: 8 File: 15DE109D5 S:8 Acq:15-DEC-10 14:59:31
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	27.096 of which	11.131 named and	15.964	unnamed
Conc:	54.191 of which	22.263 named and	31.928	unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	30:19	1.186 y	8.598	95071	4.032	y	n
					80175	7.343	y	n
	2	30:33	1.089 y	13.717	145738	5.977	y	n
					133834	12.110	y	n
	3	31:13	1.432 n	2.081	27118	1.349	n	n
					18936	2.704	n	n
1,2,3,4,7,8-HxCDF	4	31:41	0.868 n	13.205	151341	6.411	y	n
					174363	18.152	y	n
1,2,3,6,7,8-HxCDF	5	31:49	1.052 n	9.058	109557	5.368	y	n
					104188	12.438	y	n
	6	31:54	1.101 y	4.608	49223	2.664	n	n
					44699	6.571	y	n
	7	32:08	1.052 n	2.924	32995	1.817	n	n
					31352	3.467	y	n

See P 6A

Run Text: MA8DF-1-AA Sample text: MA8DF-1-AA :G0L110441-2

Run Text: MA8DF-1-AA Sample text: MA8DF-1-AA :G0L110441-2

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? yes #Hom:9
Run: 8 File: 15DE109D5 S:8 Acq:15-DEC-10 14:59:31
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	28.86	of which	12.80	named and	16.06	unnamed			
Conc:	57.72	of which	25.59	named and	32.13	unnamed			

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	30:19	1.19	y	8.60	95071	4.0	y	n
						80175	7.3	y	n
	2	30:33	1.09	y	13.72	145738	6.0	y	n
						133834	12.1	y	n
1,2,3,4,7,8-HxCDF	3	31:41	0.91	n	12.16	139403	6.6	y	y
						152799	18.2	y	y
1,2,3,6,7,8-HxCDF	4	31:49	1.13	y	10.16	117894	5.6	y	y
						104188	12.4	y	n
	5	31:54	1.29	y	5.02	57706	2.9	n	y
						44699	6.6	y	n
	6	32:19	1.58	n	2.06	29604	1.5	n	y
						18787	2.6	n	y
2,3,4,6,7,8-HxCDF	7	32:22	2.00	n	2.06	37562	2.1	n	y
						18787	2.6	n	y
1,2,3,7,8,9-HxCDF	8	33:00	1.90	n	1.20	18955	1.1	n	y
						9964	1.5	n	y
	9	33:04	1.35	y	2.72	31918	1.5	n	y
						23567	3.0	y	y

P6A

49.68

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:8
Run: 8 File: 15DE109D5 S:8 Acq:15-DEC-10 14:59:31
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	8.232 of which	1.454 named and	6.778 unnamed
Conc:	16.464 of which	2.909 named and	13.555 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	31:09	3.245 n	0.729	20736	4.703	y	n
					6390	1.163	n	n
	2	31:40	2.519 n	3.609	79760	17.572	y	n
					31658	4.440	y	n
	3	31:48	4.366 n	1.709	65466	15.086	y	n
					14994	2.865	n	n
	4	31:58	1.303 y	3.320	36899	6.027	y	n
					28329	3.964	y	n
	5	32:21	2.713 n	2.673	63609	15.434	y	n
					23446	3.774	y	n
1,2,3,6,7,8-HxCDD	6	32:34	2.125 n	1.355	25285	3.591	y	n
					11896	2.582	n	n
1,2,3,7,8,9-HxCDD	7	32:50	1.279 y	1.554	17778	4.095	y	n
					13899	1.907	n	n
	8	32:59	4.446 n	1.515	59086	15.853	y	n
					13288	2.118	n	n

See P7A

Run Text: MA8DF-1-AA Sample text: MA8DF-1-AA :G0L110441-2

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? yes #Hom:7
Run: 8 File: 15DE109D5 S:8 Acq:15-DEC-10 14:59:31
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	7.58 of which	1.92 named and	5.66 unnamed
Conc:	15.15 of which	3.84 named and	11.31 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	31:40	2.52	n	3.61	79761	17.6	y	n
						31658	4.4	y	n
	2	31:48	4.37	n	1.71	65466	15.1	y	n
						14994	2.9	n	n
	3	31:58	1.30	y	3.32	36899	6.0	y	n
						28329	4.0	y	n
	4	32:21	2.71	n	2.67	63590	15.4	y	y
						23447	3.8	y	n
1,2,3,4,7,8-HxCDD	5	32:29	0.72	n	0.90	9378	2.1	n	y
						13004	2.8	n	n
1,2,3,6,7,8-HxCDD	6	32:34	1.30	y	1.39	15442	3.6	y	y
						11896	2.6	n	n
1,2,3,7,8,9-HxCDD	7	32:50	1.28	y	1.55	17778	4.1	y	n
						13899	1.9	n	n

D7A

11.31

OL

S/N<2.5

Run Text: MA8DF-1-AA Sample text: MA8DF-1-AA :G0L110441-2

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4
Run: 8 File: 15DE109D5 S:8 Acq:15-DEC-10 14:59:31
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	38.351 of which	26.617 named and	11.734	unnamed
Conc:	76.701 of which	53.233 named and	23.468	unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	34:19	1.119 y	40.582	612885	47.705	y	n
					547624	94.061	y	n
	2	34:30	1.051 y	9.940	135066	10.192	y	n
					128530	20.224	y	n
	3	34:36	0.940 y	13.528	173830	12.886	y	n
					184903	30.911	y	n
1,2,3,4,7,8,9-HpCDF	4	35:25	1.097 y	12.651	161760	11.256	y	n
					147451	25.412	y	n

Run Text: MA8DF-1-AA Sample text: MA8DF-1-AA :G0L110441-2

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:5
Run: 8 File: 15DE109D5 S:8 Acq:15-DEC-10 14:59:31
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

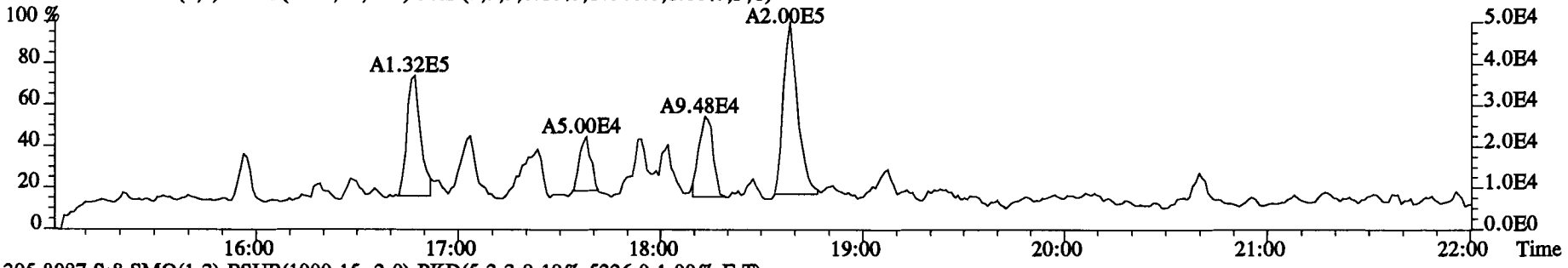
Amount:	11.320 of which	5.481 named and	5.839	unnamed
Conc:	22.639 of which	10.961 named and	11.678	unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	34:18	3.937 n	1.566	59440	18.513	y	n
					15097	7.843	y	n
	2	34:33	0.902 y	8.756	82189	25.262	y	n
					91151	40.273	y	n
1,2,3,4,6,7,8-HpCDD	3	35:06	0.959 y	10.961	106203	31.908	y	n
					110796	44.234	y	n
	4	35:15	1.897 n	0.225	4150	1.562	n	n
					2188	1.306	n	n
	5	35:24	4.268 n	1.141	47259	14.386	y	n
					11074	5.004	y	n

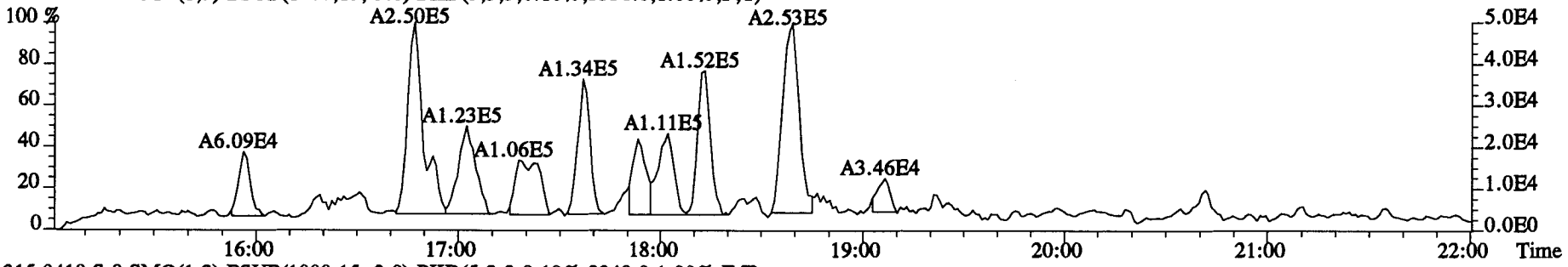
19.717

File:15DE109D5 #1-464 Acq:15-DEC-2010 14:59:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:MA8DF-1-AA :G0L110441-2 Exp:DIOXINRES

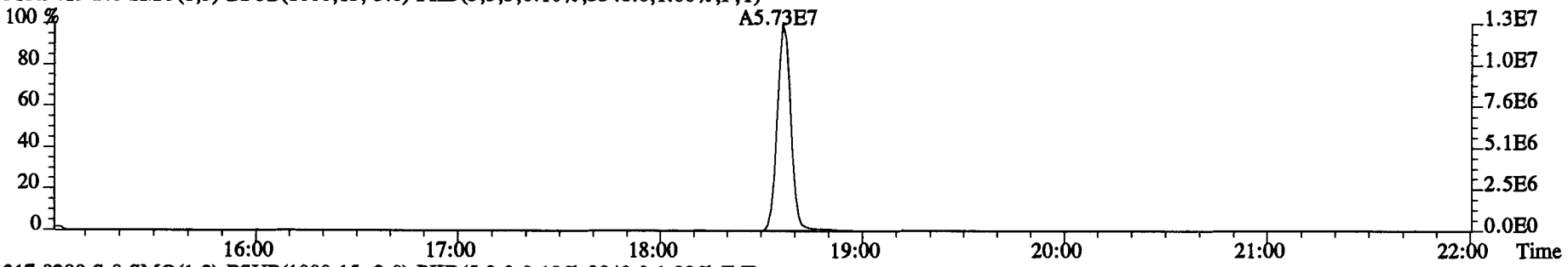
303.9016 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10560.0,1.00%,F,T)



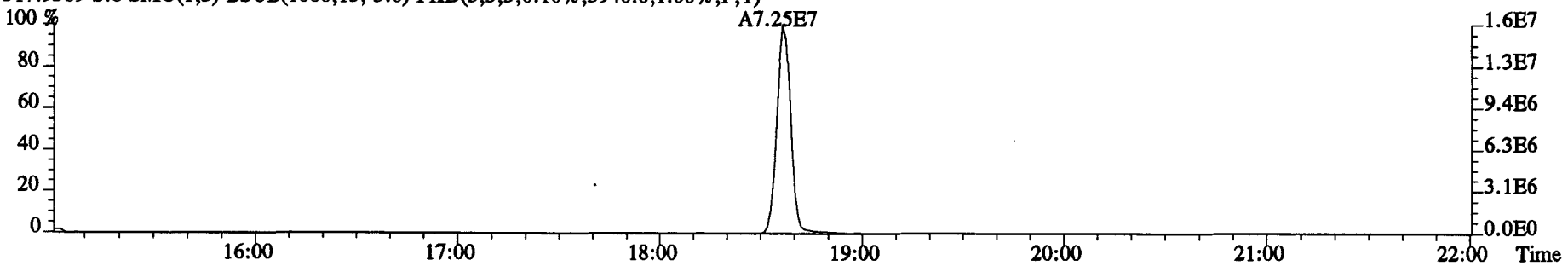
305.8987 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5336.0,1.00%,F,T)



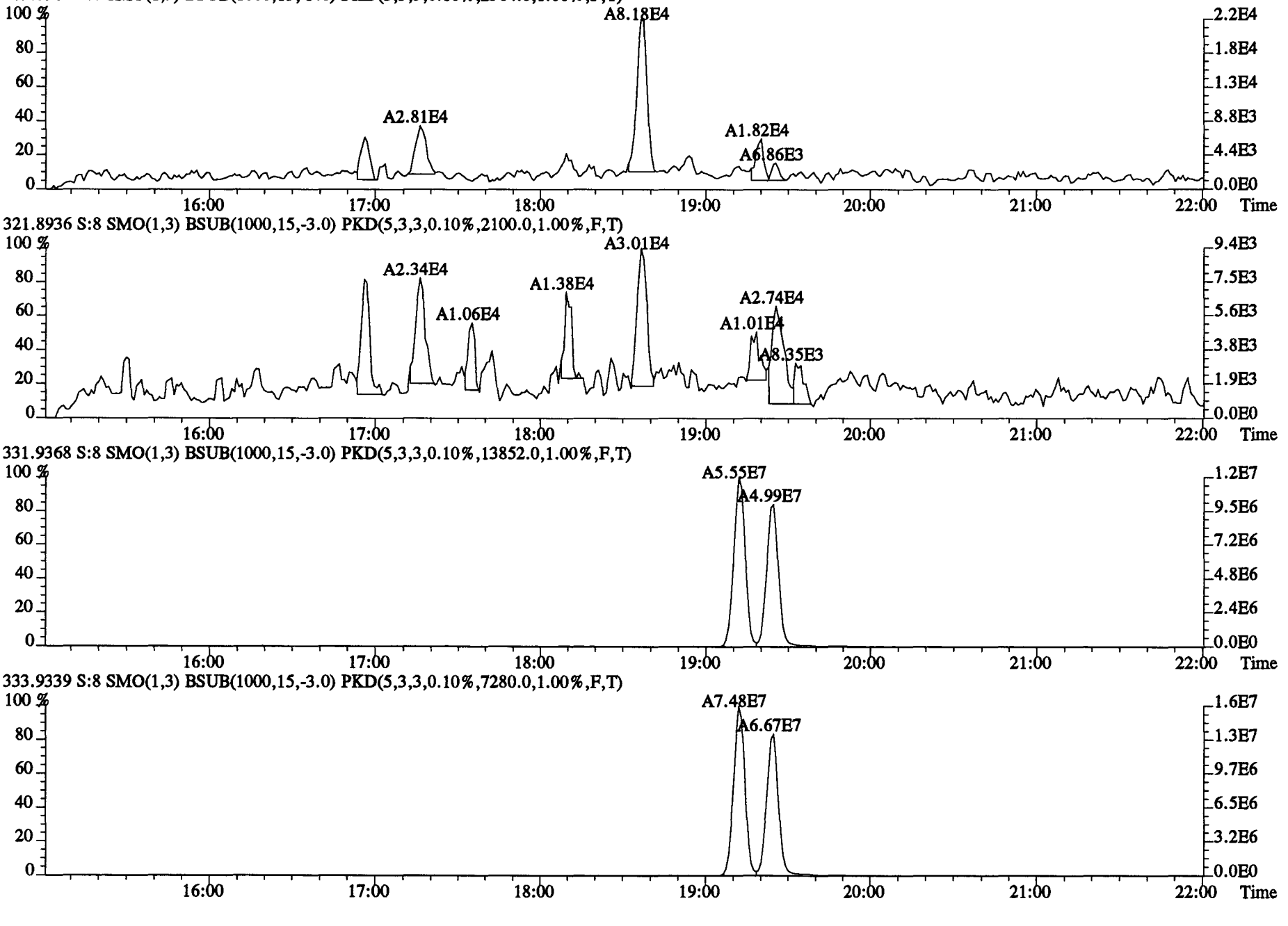
315.9419 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3348.0,1.00%,F,T)



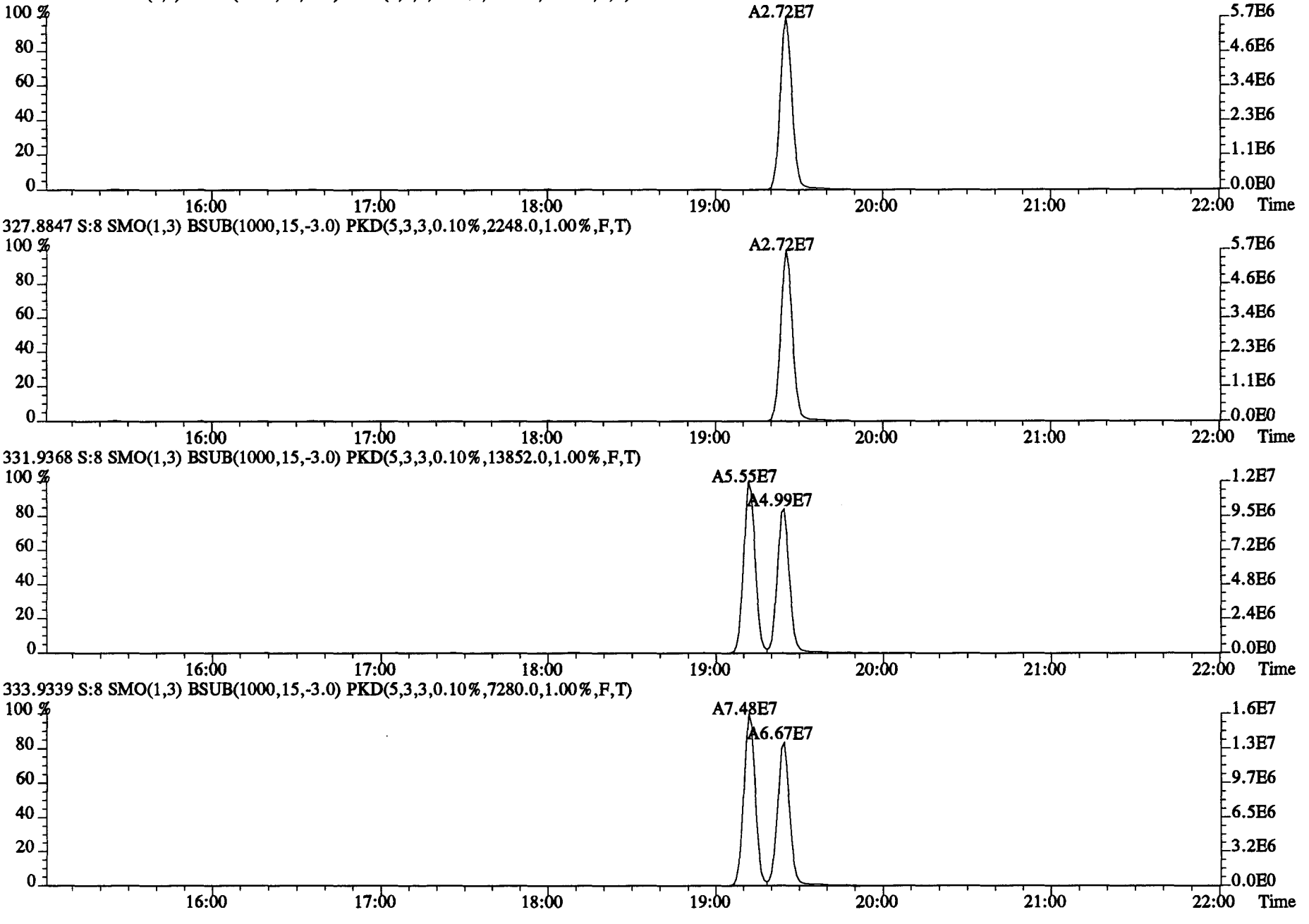
317.9389 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3940.0,1.00%,F,T)



File:15DE109D5 #1-464 Acq:15-DEC-2010 14:59:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:MA8DF-1-AA :G0L110441-2 Exp:DIOXINRES

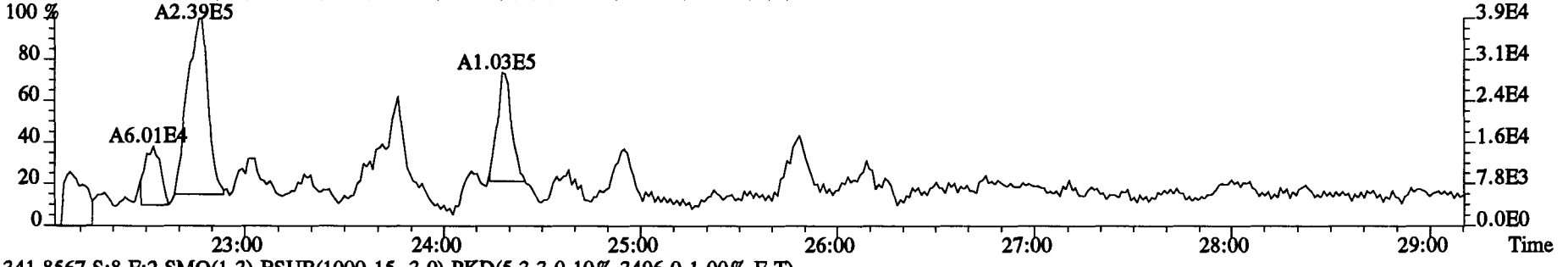


File:15DE109D5 #1-464 Acq:15-DEC-2010 14:59:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:MA8DF-1-AA :G0L110441-2 Exp:DIOXINRES

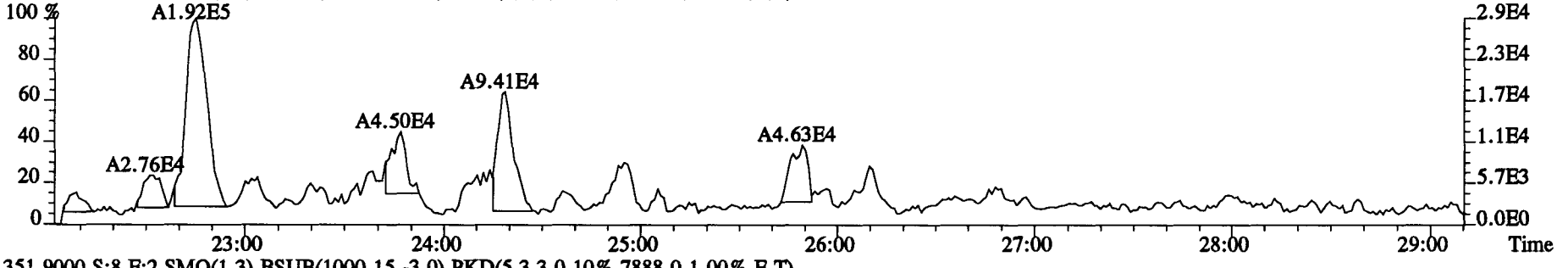


File:15DE109D5 #1-459 Acq:15-DEC-2010 14:59:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:MA8DF-1-AA :G0L110441-2 Exp:DIOXINRES

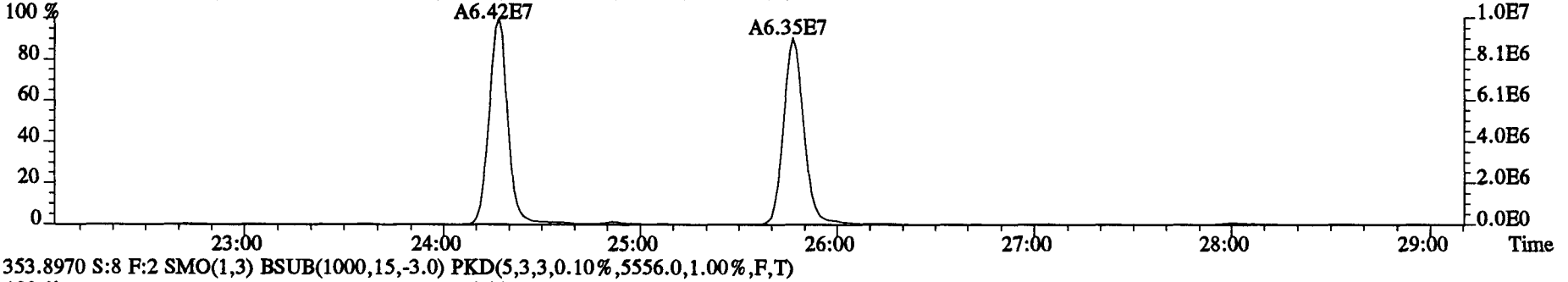
339.8597 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8596.0,1.00%,F,T)



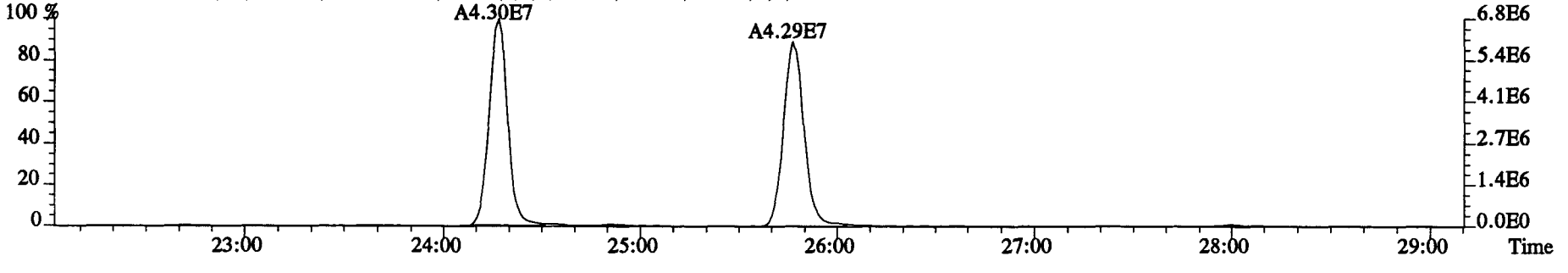
341.8567 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3496.0,1.00%,F,T)



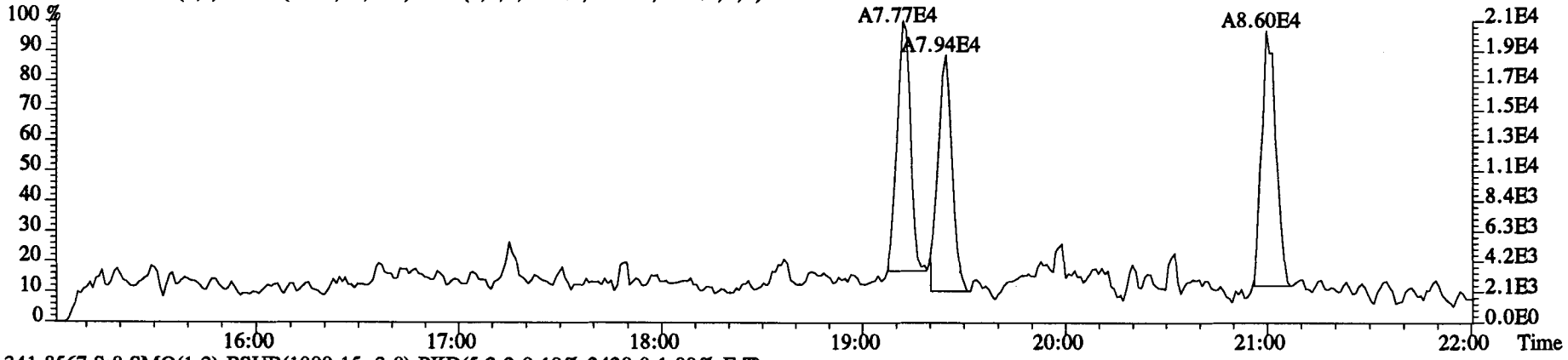
351.9000 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7888.0,1.00%,F,T)



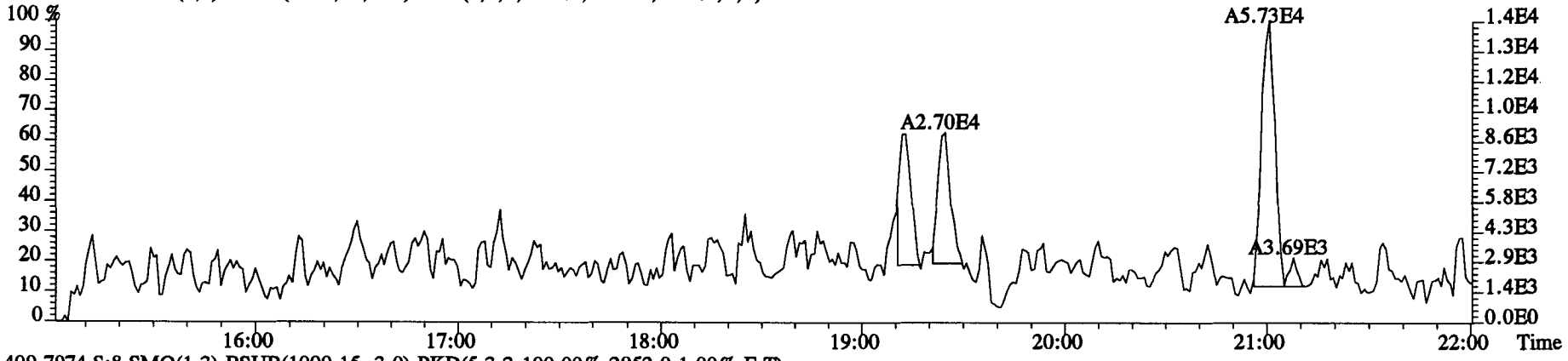
353.8970 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5556.0,1.00%,F,T)



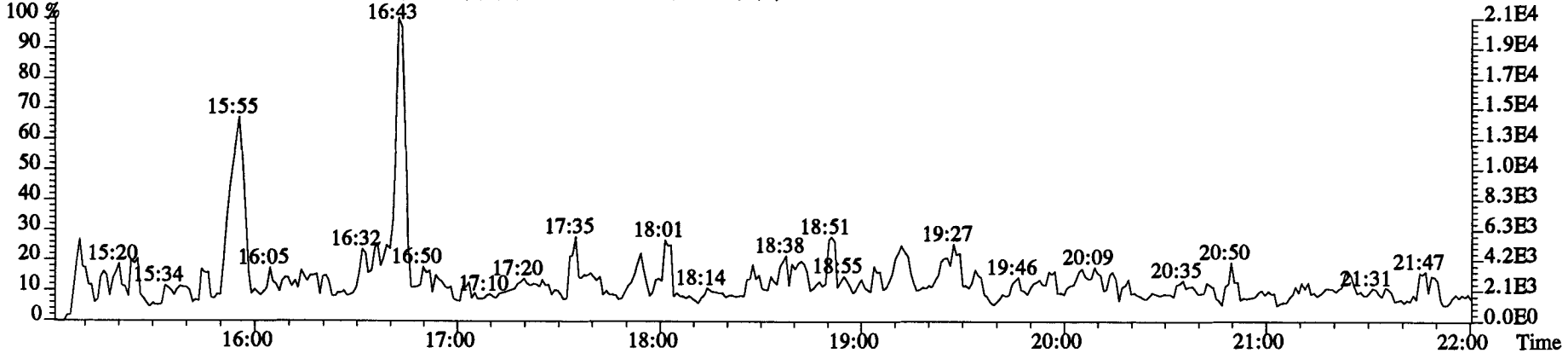
File:15DE109D5 #1-464 Acq:15-DEC-2010 14:59:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:MA8DF-1-AA :G0L110441-2 Exp:DIOXINRES
339.8597 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3588.0,1.00%,F,T)



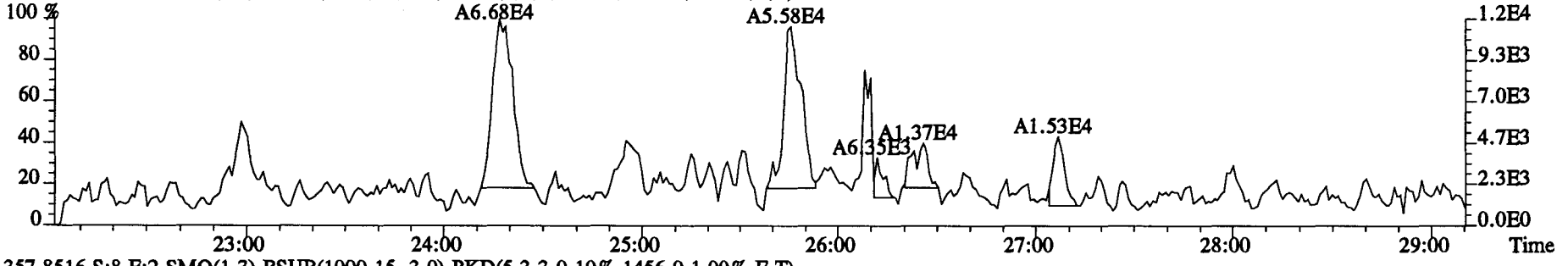
341.8567 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3420.0,1.00%,F,T)



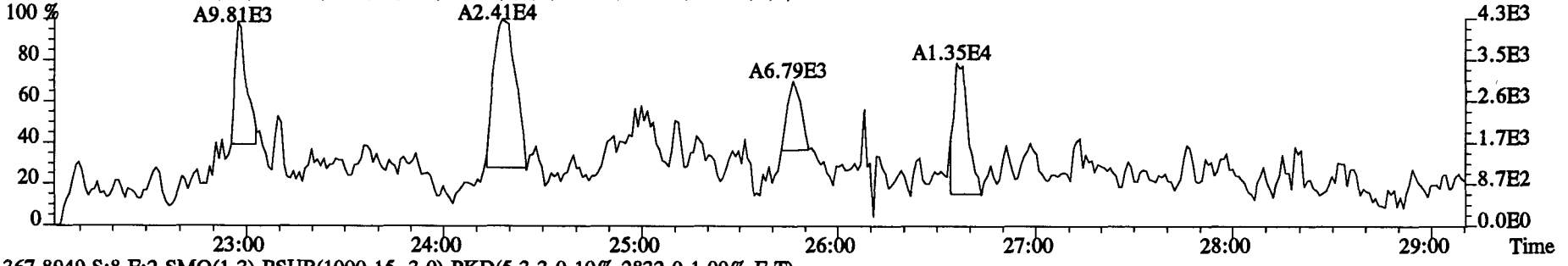
409.7974 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2952.0,1.00%,F,T)



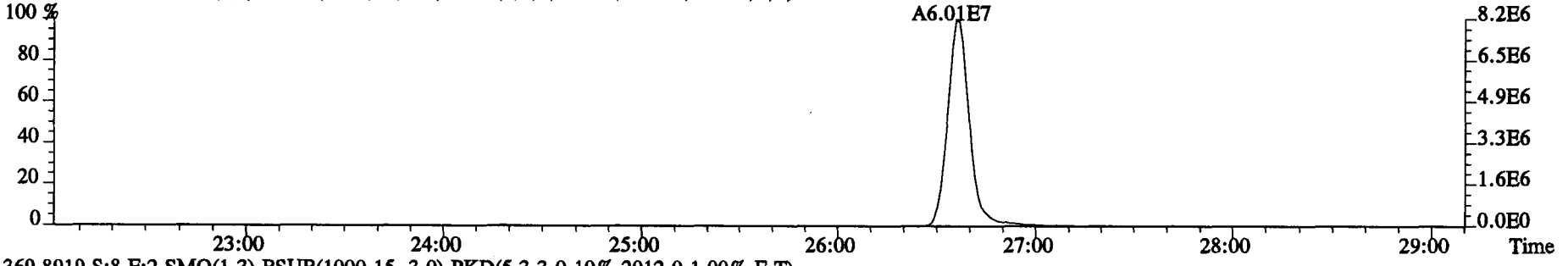
File:15DE109D5 #1-459 Acq:15-DEC-2010 14:59:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:MA8DF-1-AA :G0L110441-2 Exp:DIOXINRES
355.8546 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2432.0,1.00%,F,T)



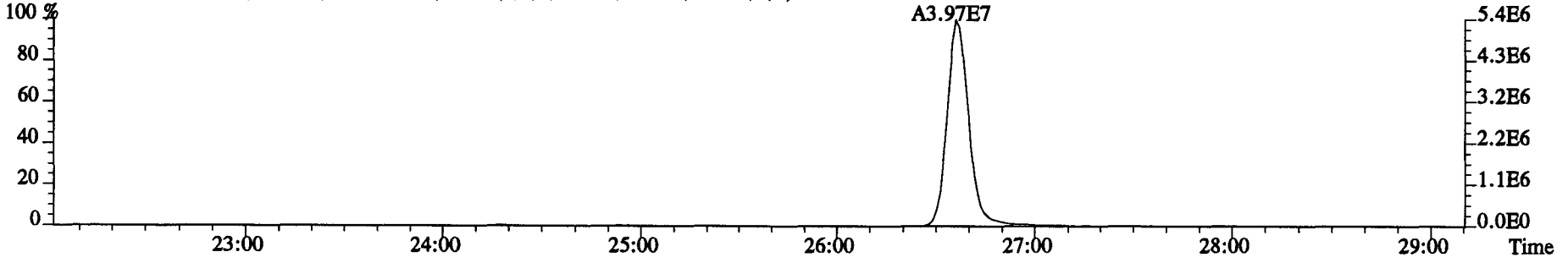
357.8516 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1456.0,1.00%,F,T)



367.8949 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2832.0,1.00%,F,T)

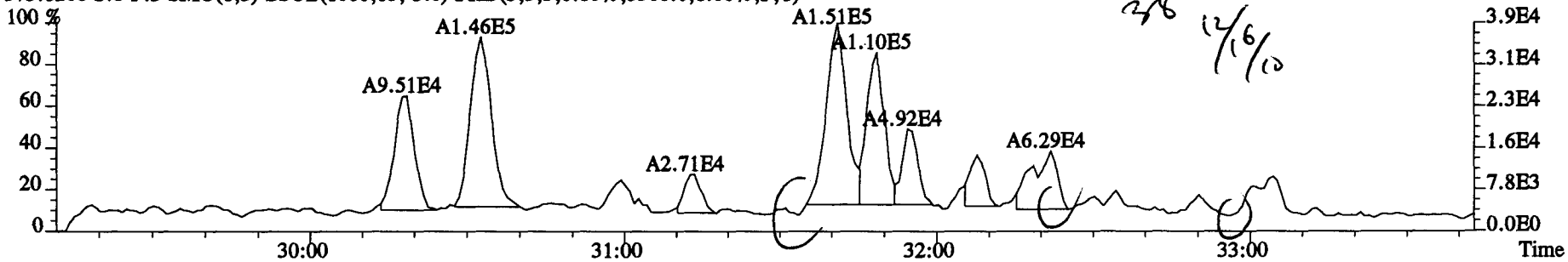


369.8919 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2012.0,1.00%,F,T)

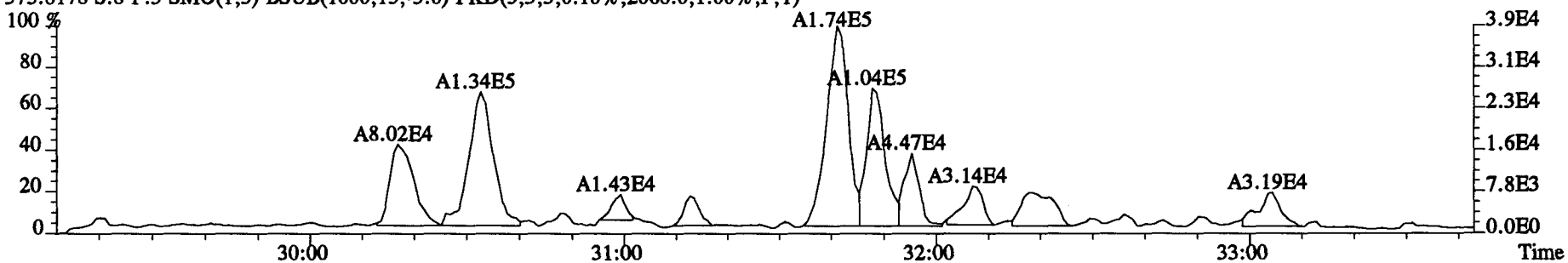


File:15DE109D5 #1-326 Acq:15-DEC-2010 14:59:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:MA8DF-1-AA :G0L110441-2 Exp:DIOXINRES

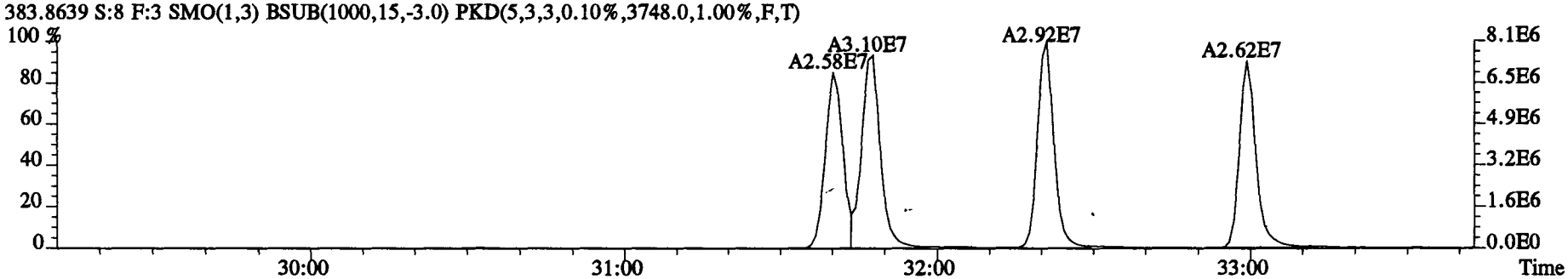
373.8208 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5300.0,1.00%,F,T)



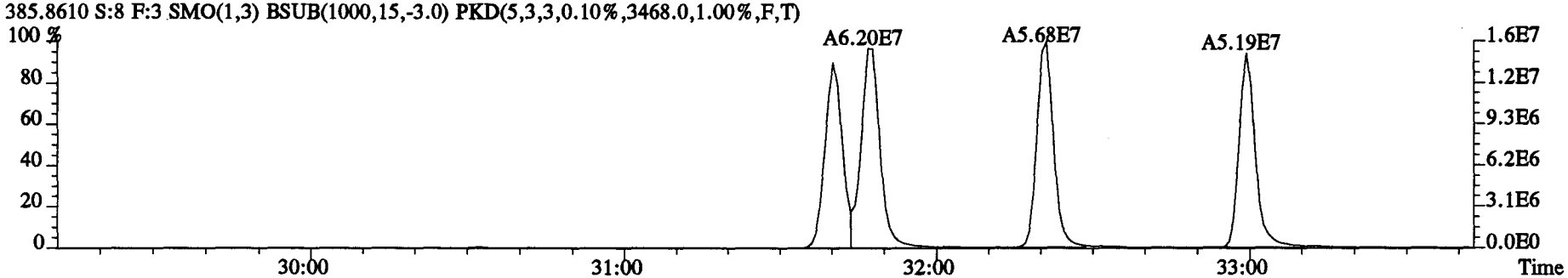
375.8178 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2068.0,1.00%,F,T)



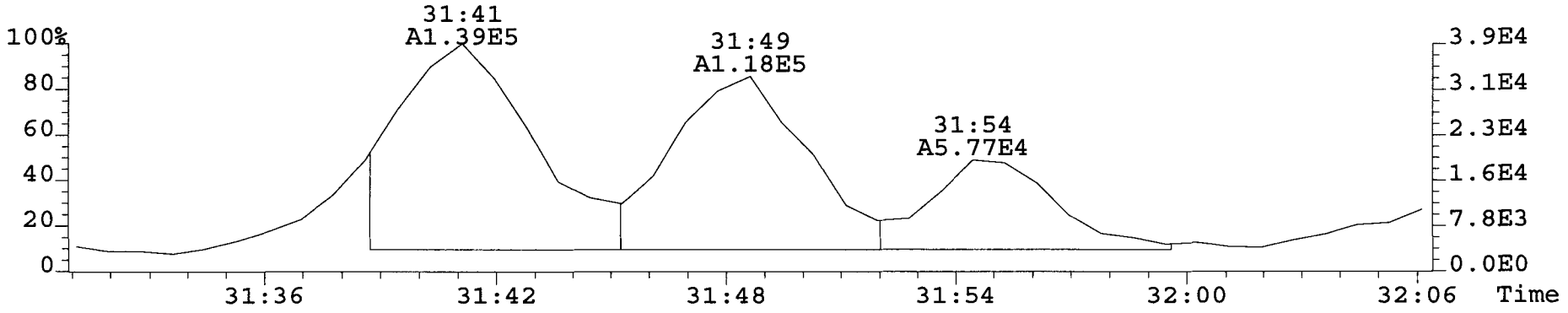
383.8639 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3748.0,1.00%,F,T)



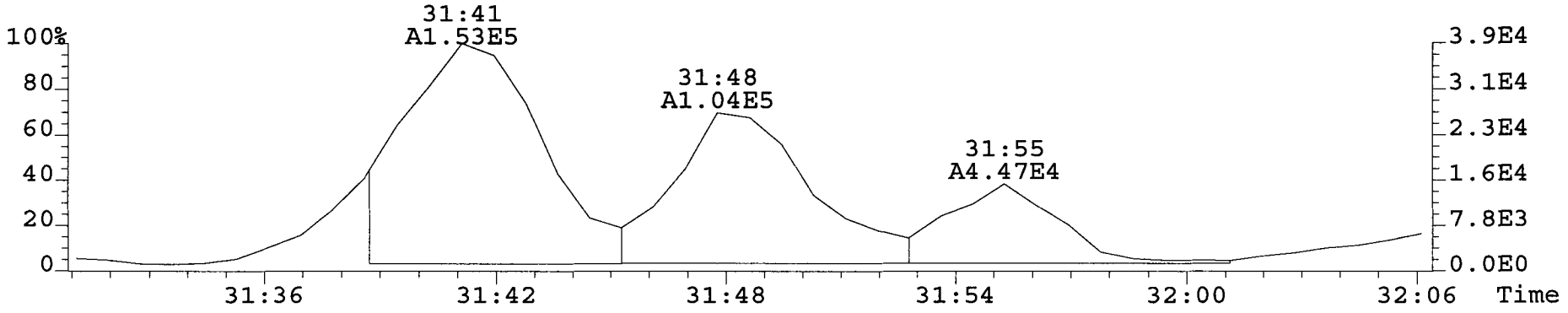
385.8610 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3468.0,1.00%,F,T)



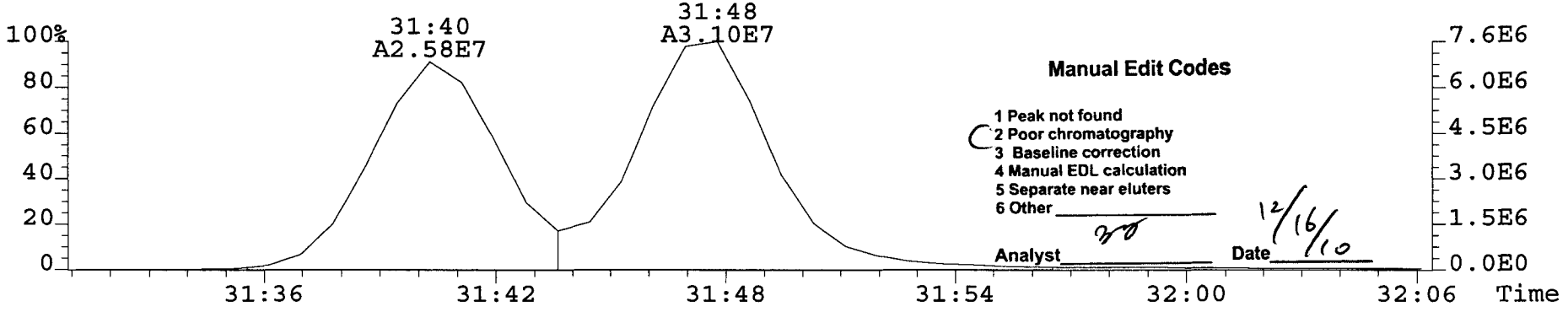
File:15DE109D5 #1-326 Acq:15-DEC-2010 14:59:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:MA8DF-1-AA :G0L110441-2 Exp:DIOXINRES
373.8208 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5300.0,1.00%,F,T)



375.8178 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2068.0,1.00%,F,T)



383.8639 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3748.0,1.00%,F,T)

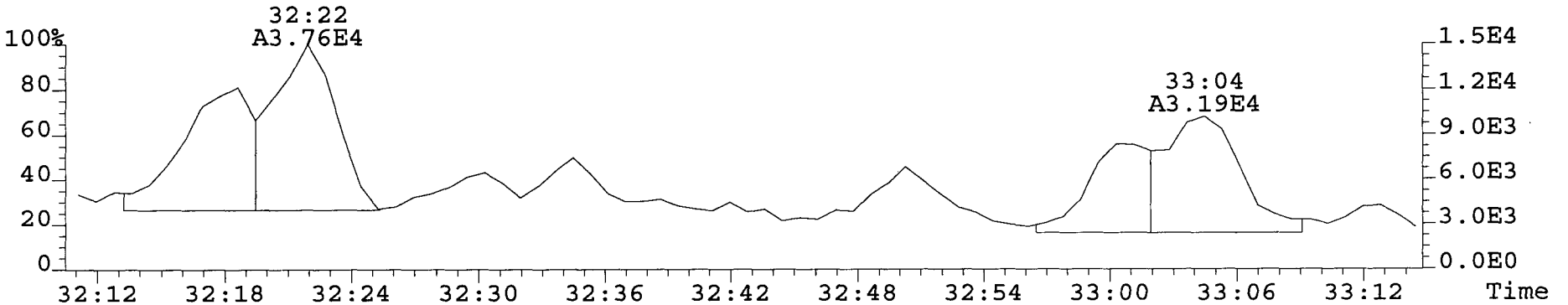


Manual Edit Codes

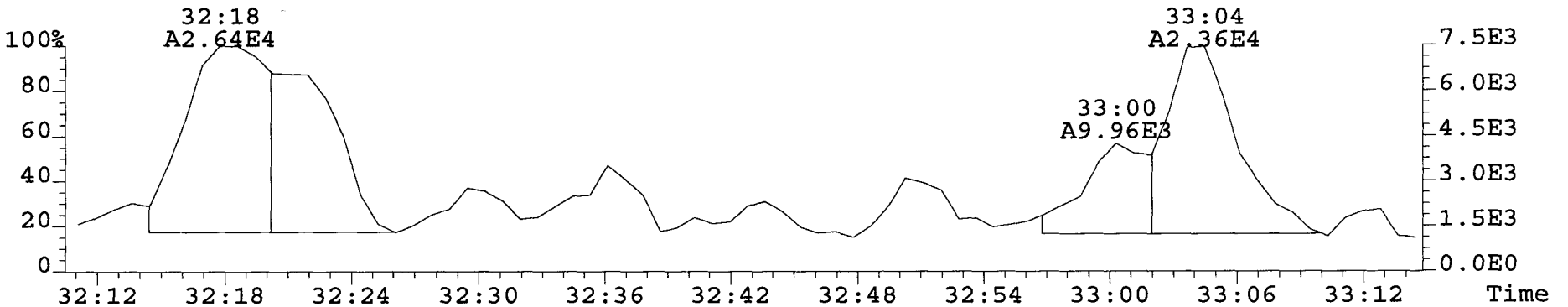
1 Peak not found
2 Poor chromatography
3 Baseline correction
4 Manual EDL calculation
5 Separate near eluters
6 Other _____

Analyst _____ Date 12/16/10

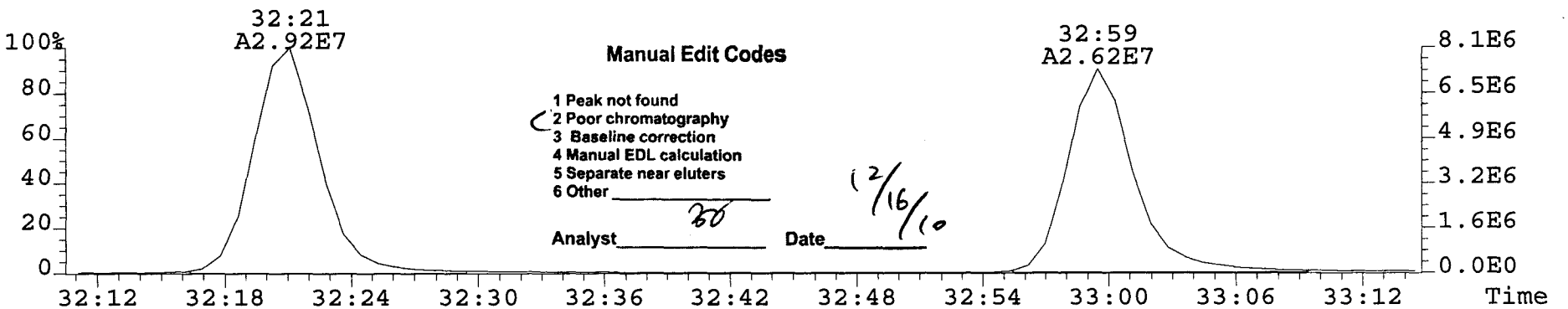
File:15DE109D5 #1-326 Acq:15-DEC-2010 14:59:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:MA8DF-1-AA :G0L110441-2 Exp:DIOXINRES
373.8208 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5300.0,1.00%,F,T)



375.8178 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2068.0,1.00%,F,T)



383.8639 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3748.0,1.00%,F,T)



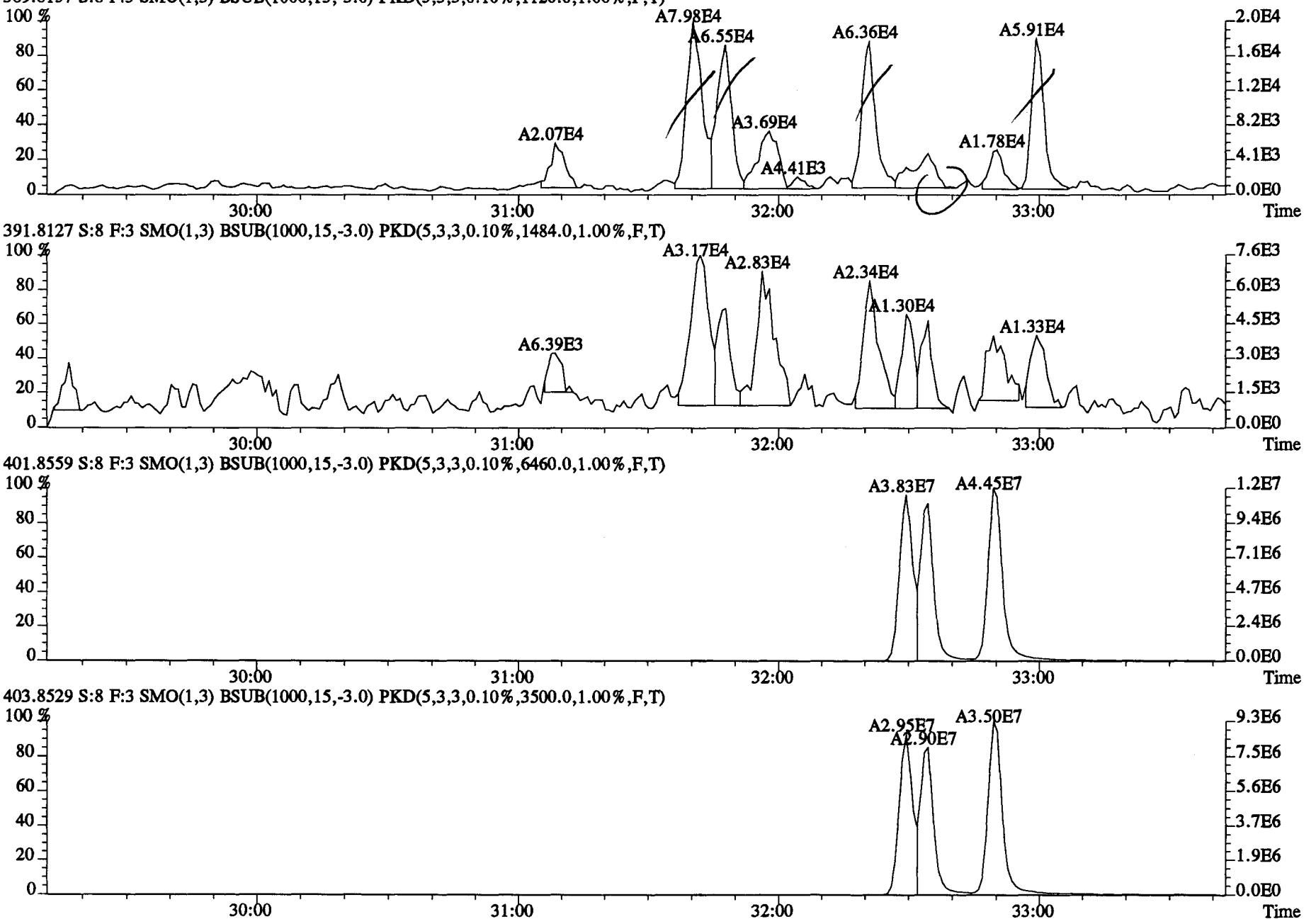
Manual Edit Codes

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

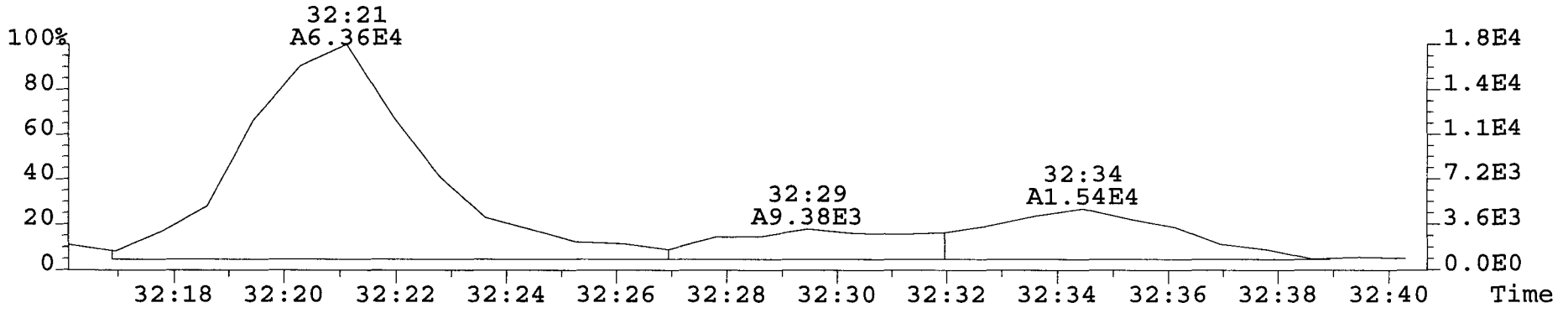
Analyst 30 Date 12/16/10

12/16/10

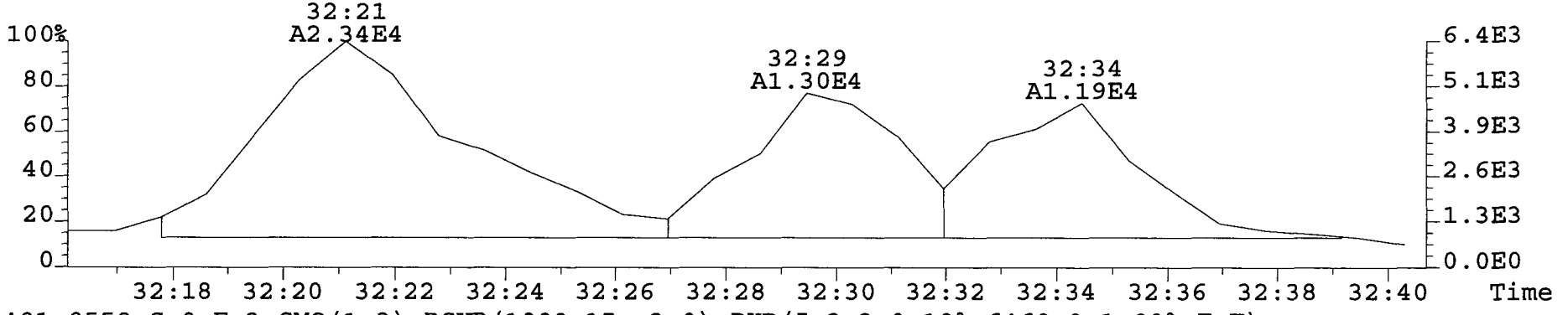
File:15DE109D5 #1-326 Acq:15-DEC-2010 14:59:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:MA8DF-1-AA :G0L110441-2 Exp:DIOXINRES



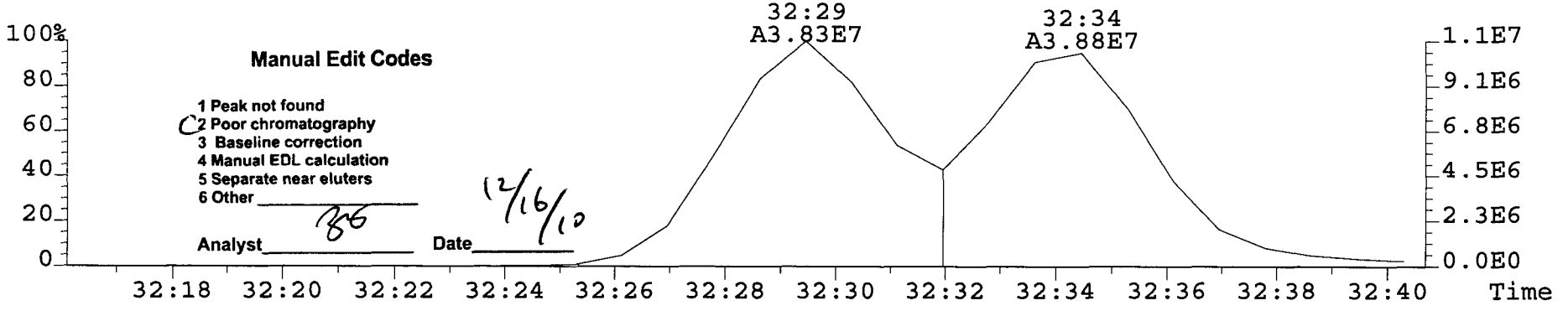
File:15DE109D5 #1-326 Acq:15-DEC-2010 14:59:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:MA8DF-1-AA :G0L110441-2 Exp:DIOXINRES
389.8157 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1120.0,1.00%,F,T)



391.8127 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1484.0,1.00%,F,T)



401.8559 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6460.0,1.00%,F,T)

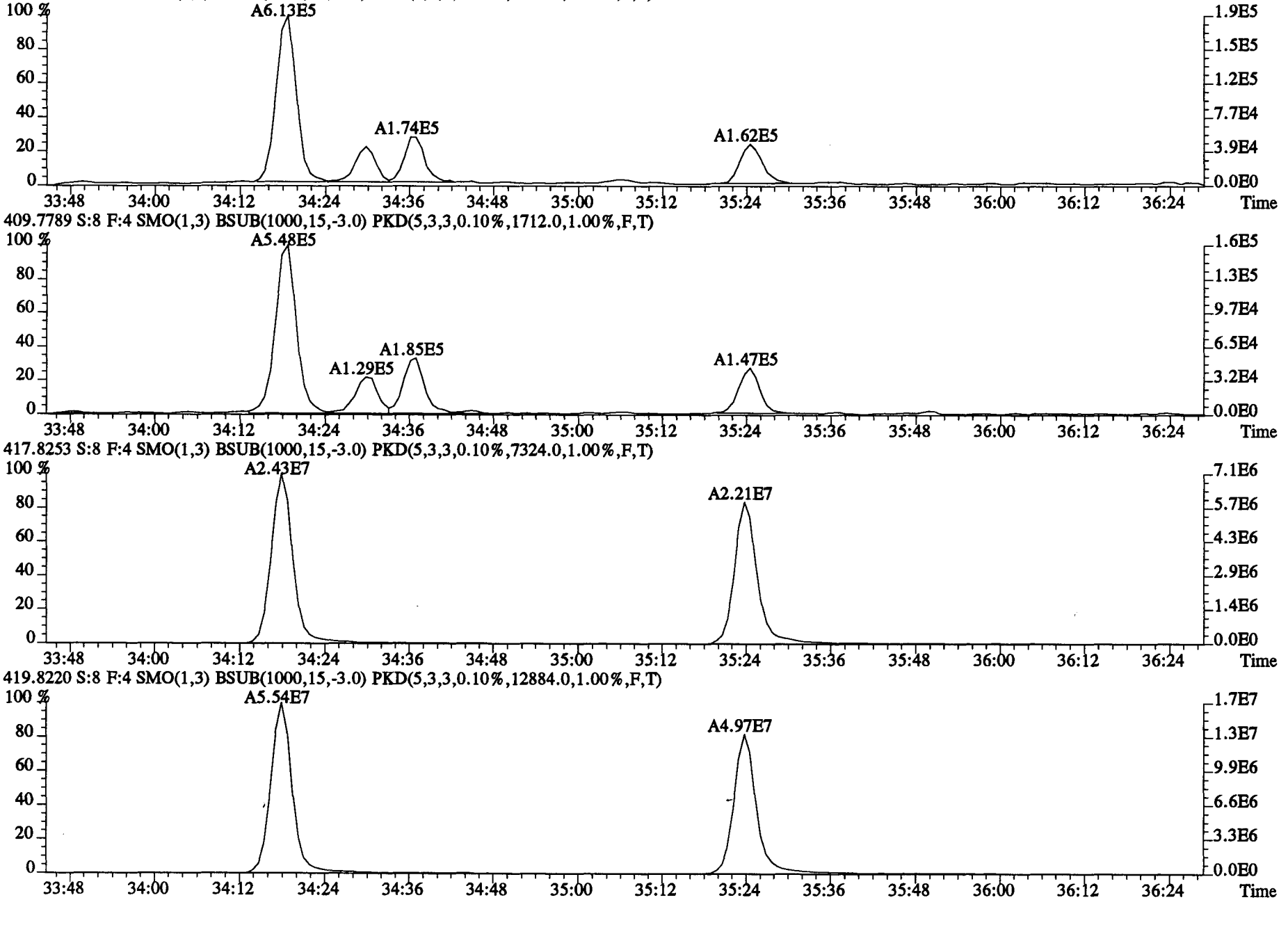


Manual Edit Codes

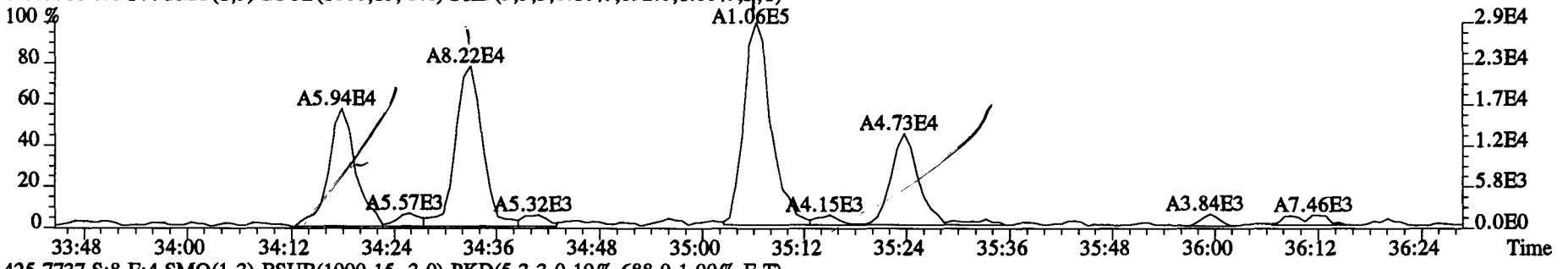
1 Peak not found
C 2 Poor chromatography
3 Baseline correction
4 Manual EDL calculation
5 Separate near eluters
6 Other _____

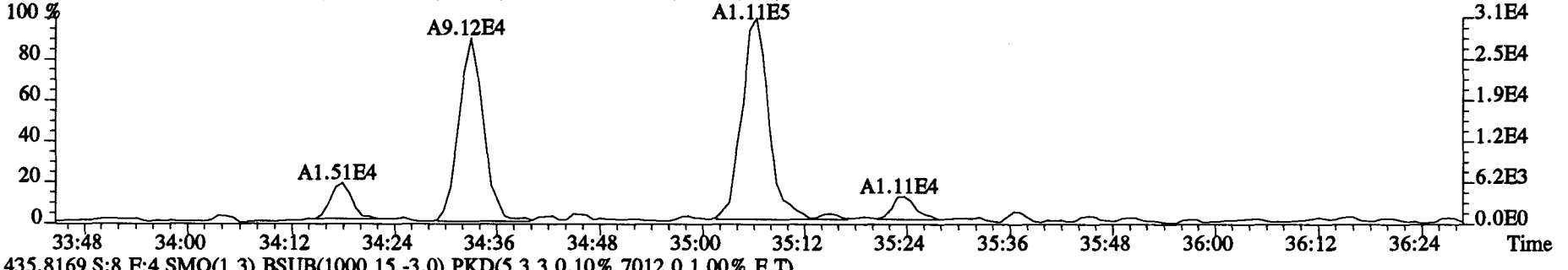
Analyst MA Date 12/16/10

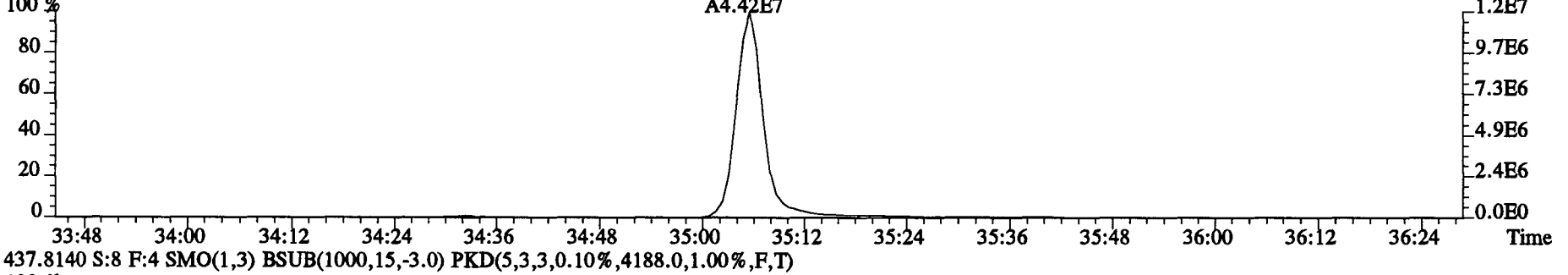
File:15DE109D5 #1-208 Acq:15-DEC-2010 14:59:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:MA8DF-1-AA :G0L110441-2 Exp:DIOXINRES

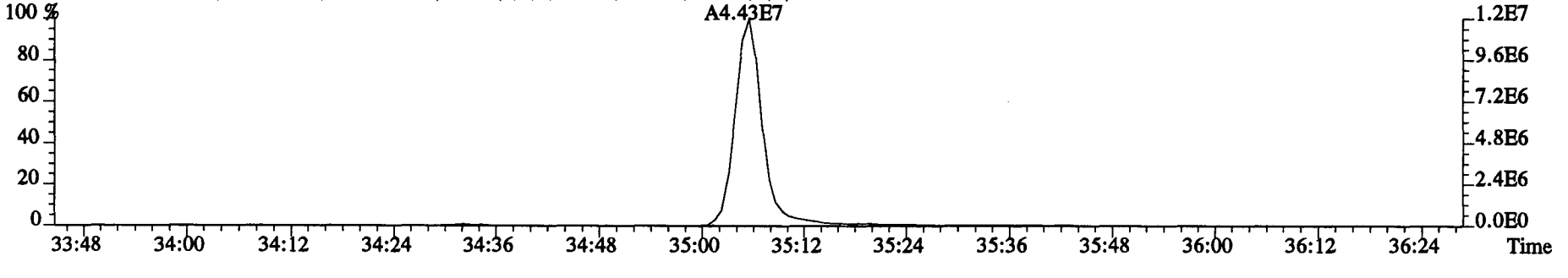


File:15DE109D5 #1-208 Acq:15-DEC-2010 14:59:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:MA8DF-1-AA :G0L110441-2 Exp:DIOXINRES

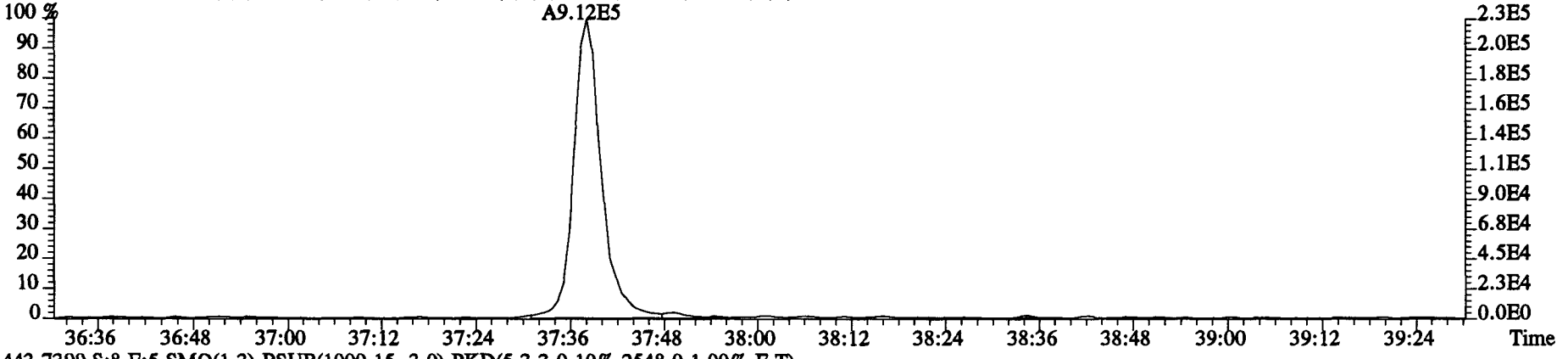




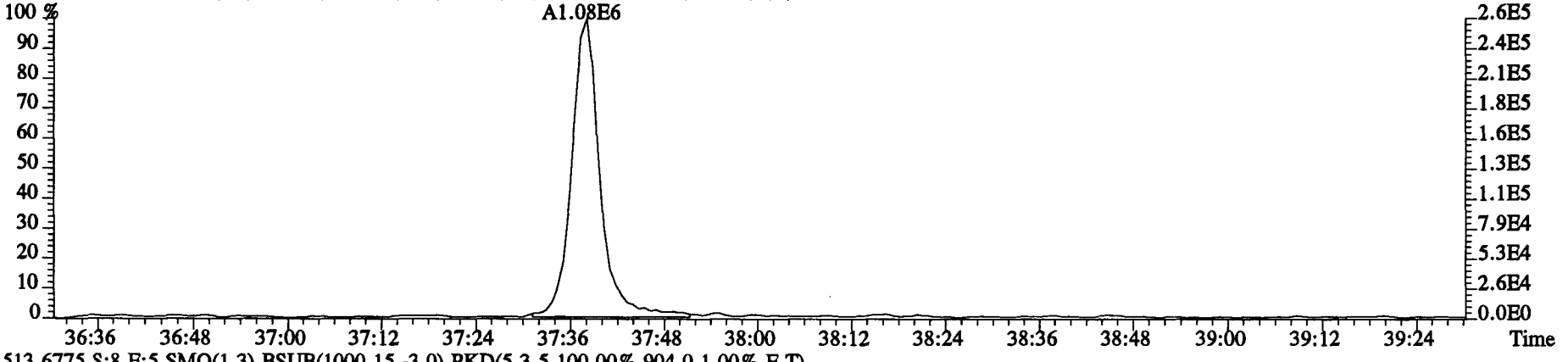




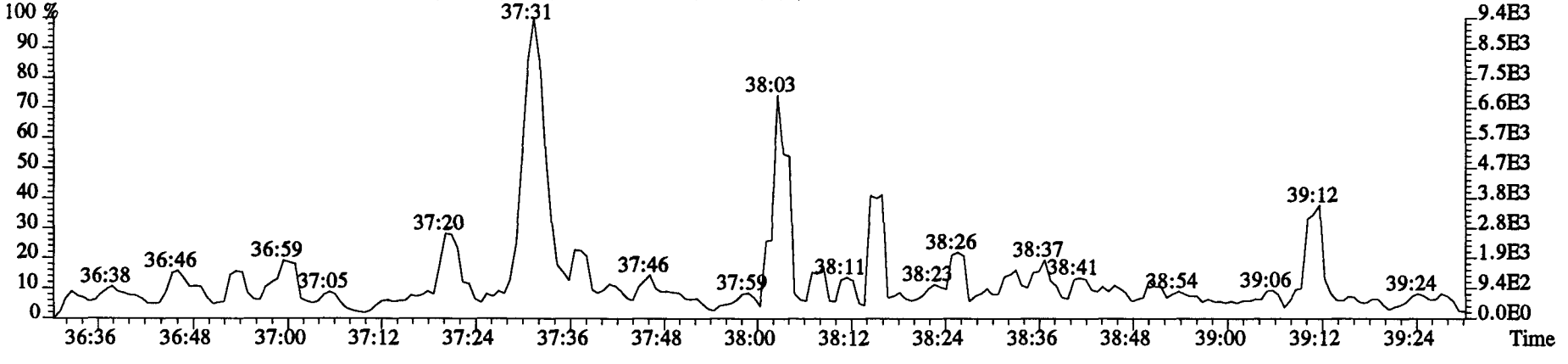
File:15DE109D5 #1-243 Acq:15-DEC-2010 14:59:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:MA8DF-1-AA :G0L110441-2 Exp:DIOXINRES
441.7428 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1016.0,1.00%,F,T)



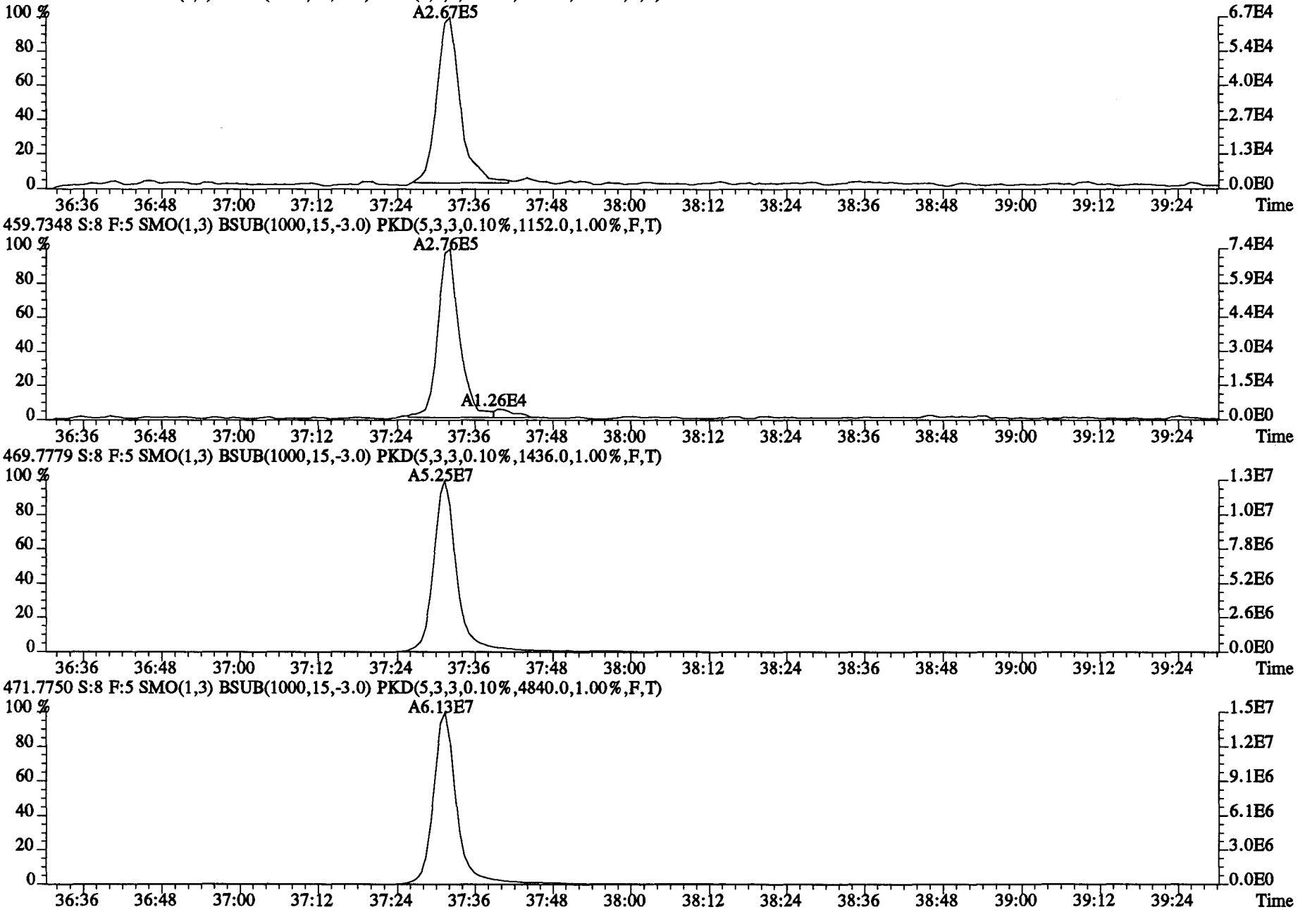
443.7399 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2548.0,1.00%,F,T)



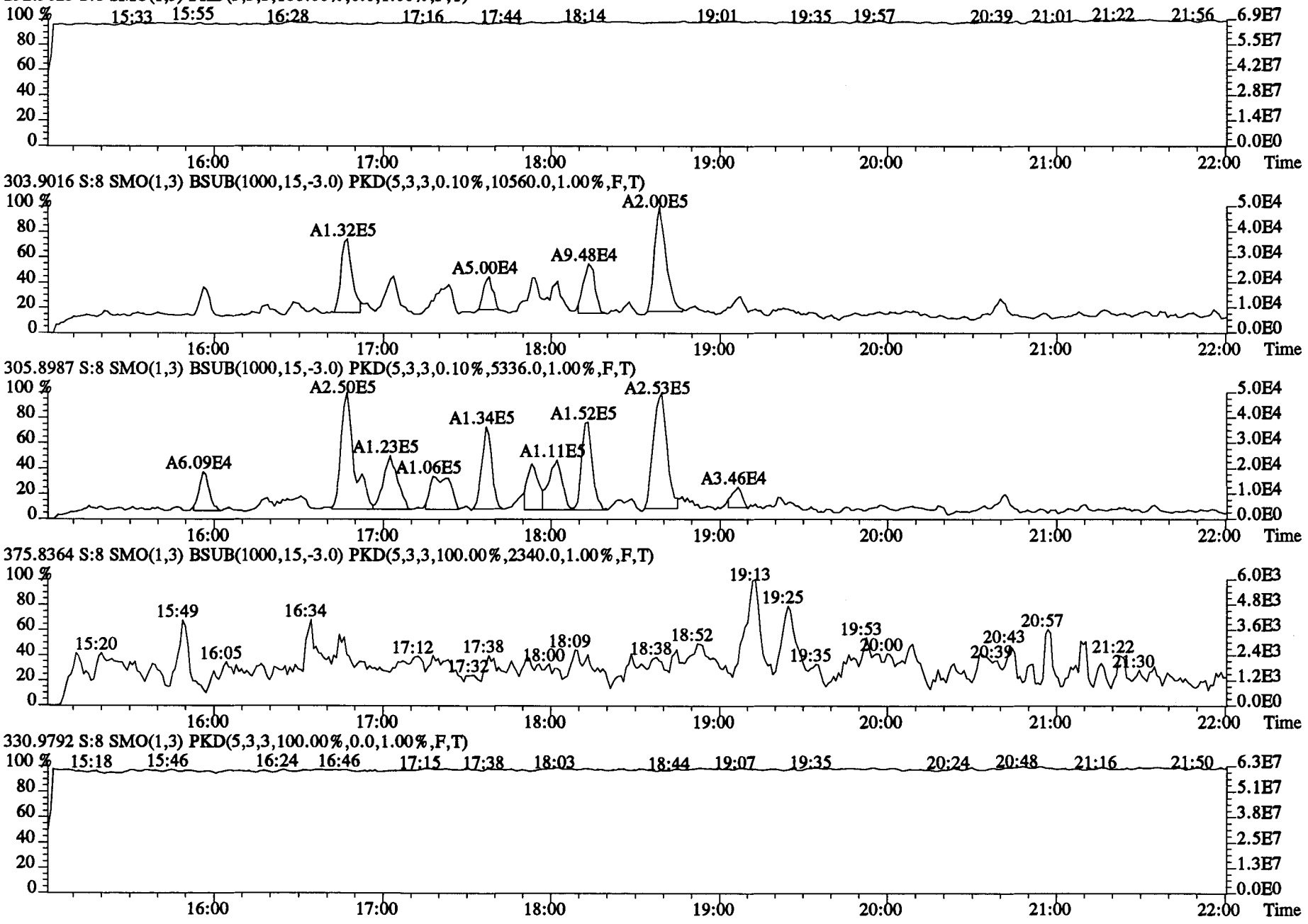
513.6775 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,904.0,1.00%,F,T)



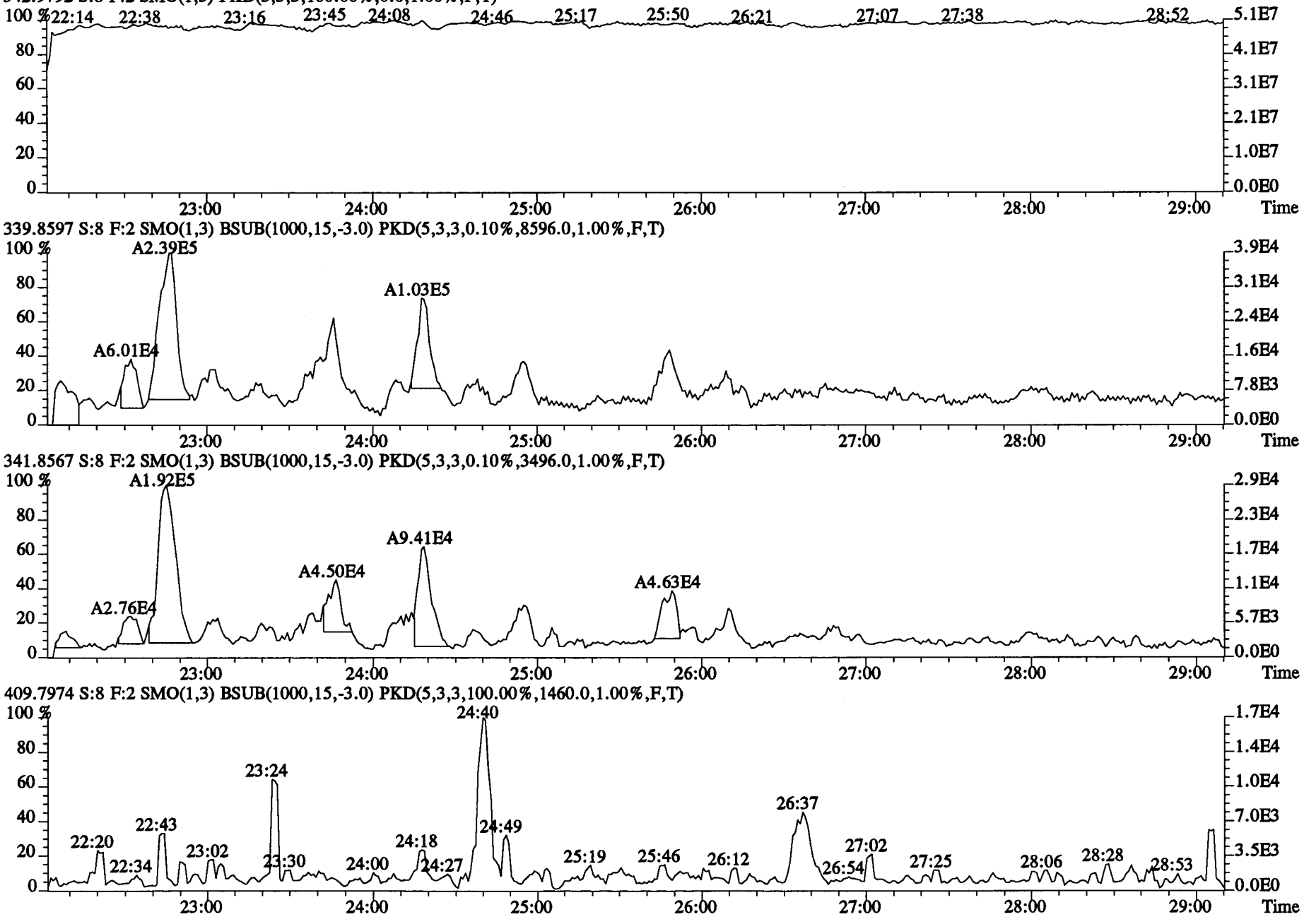
File:15DE109D5 #1-243 Acq:15-DEC-2010 14:59:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:MA8DF-1-AA :G0L110441-2 Exp:DIOXINRES



File:15DE109D5 #1-464 Acq:15-DEC-2010 14:59:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:MA8DF-1-AA :G0L110441-2 Exp:DIOXINRES

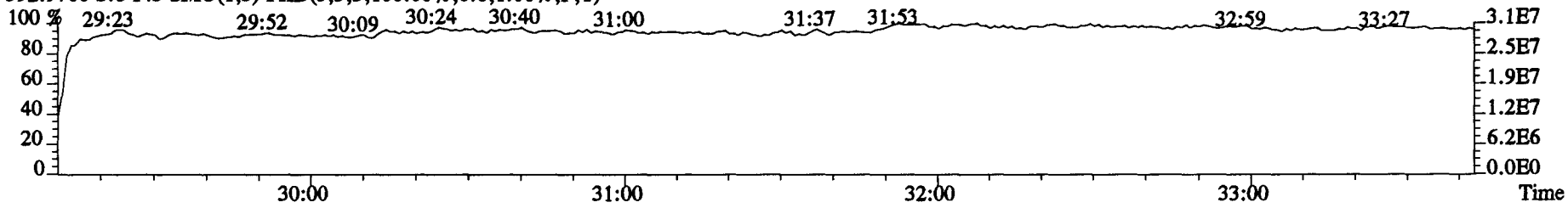


File:15DE109D5 #1-459 Acq:15-DEC-2010 14:59:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:MA8DF-1-AA :G0L110441-2 Exp:DIOXINRES

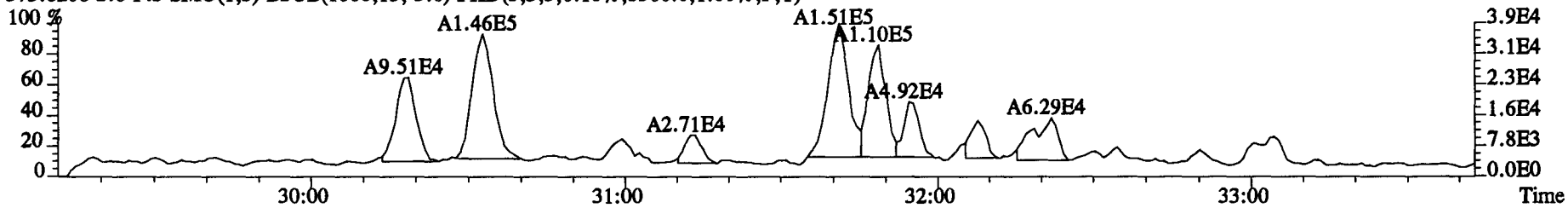


File:15DE109D5 #1-326 Acq:15-DEC-2010 14:59:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:MA8DF-1-AA :G0L110441-2 Exp:DIOXINRES

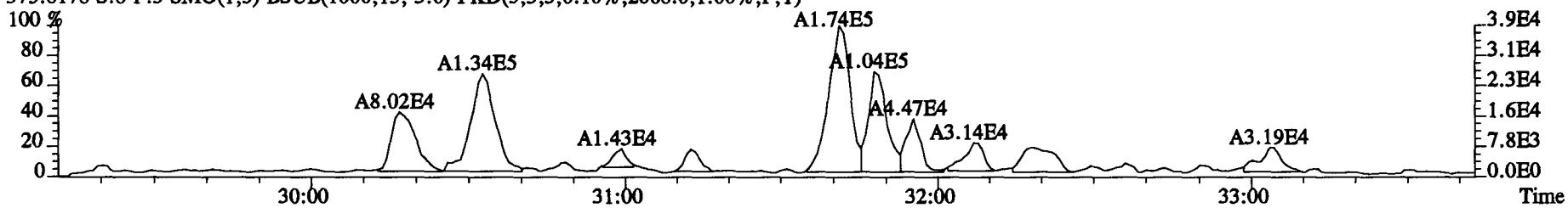
392.9760 S:8 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



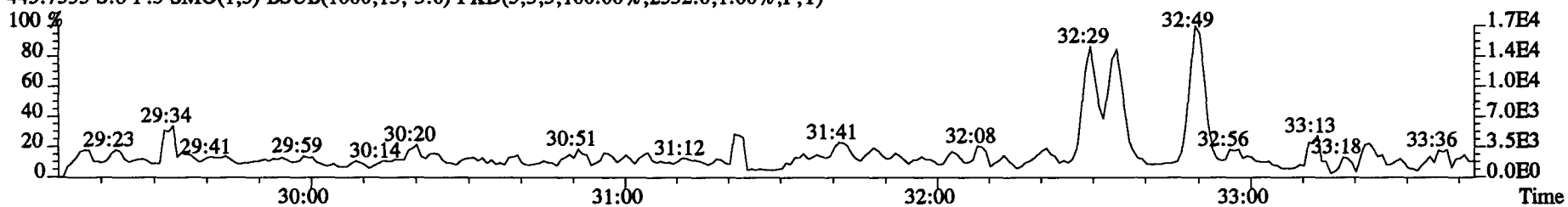
373.8208 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5300.0,1.00%,F,T)



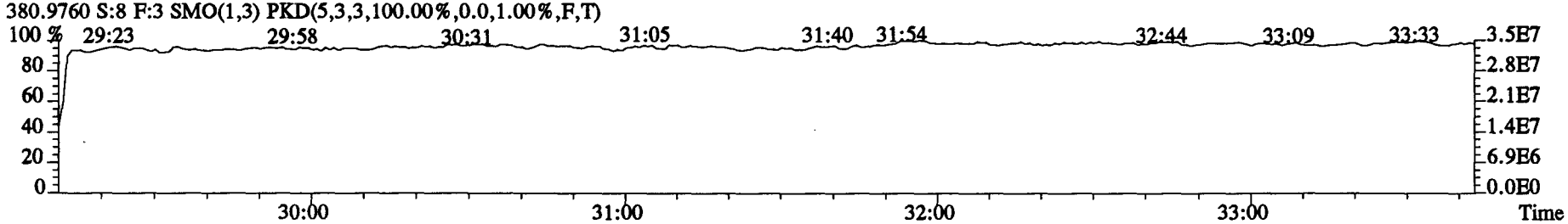
375.8178 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2068.0,1.00%,F,T)



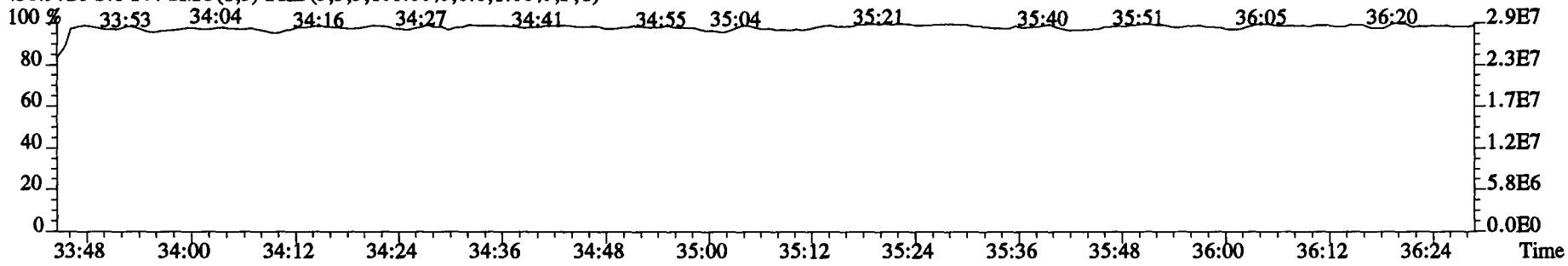
445.7555 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2532.0,1.00%,F,T)

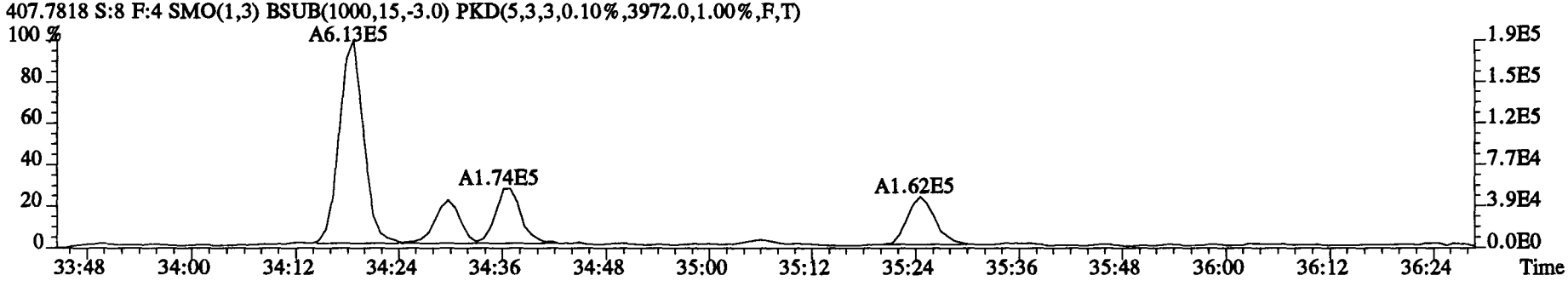


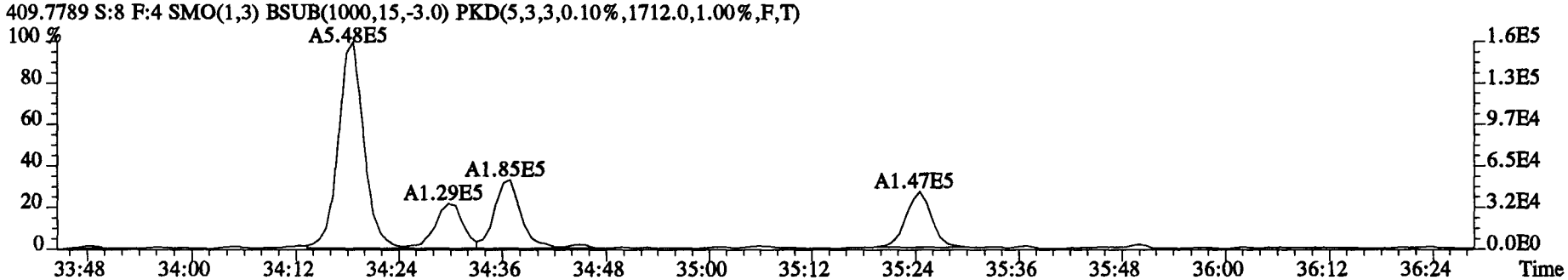
380.9760 S:8 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

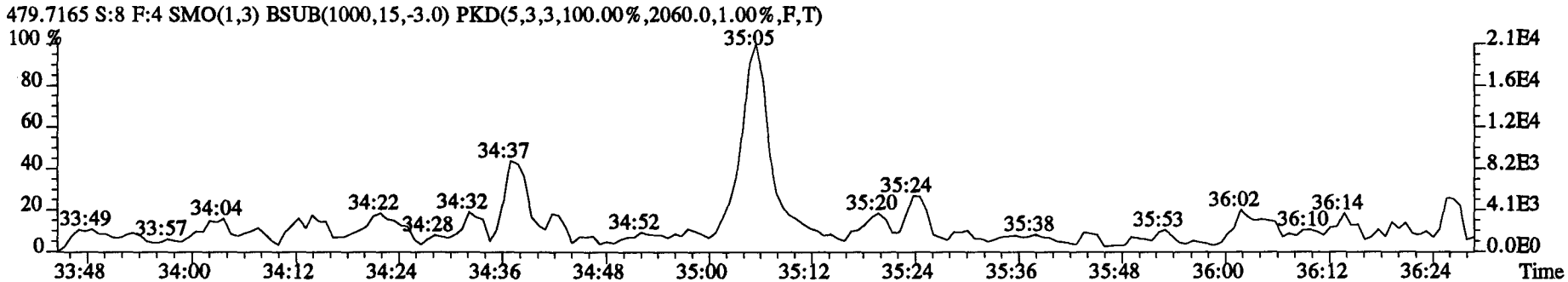


File:15DE109D5 #1-208 Acq:15-DEC-2010 14:59:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:MA8DF-1-AA :G0L110441-2 Exp:DIOXINRES

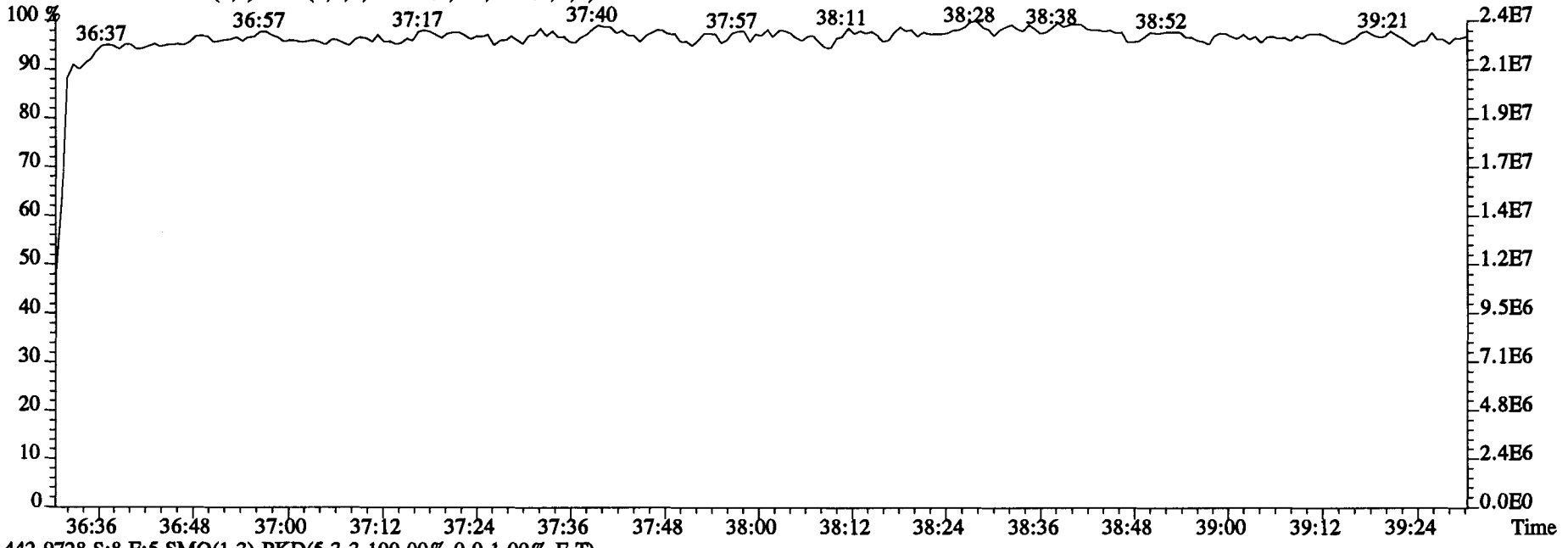




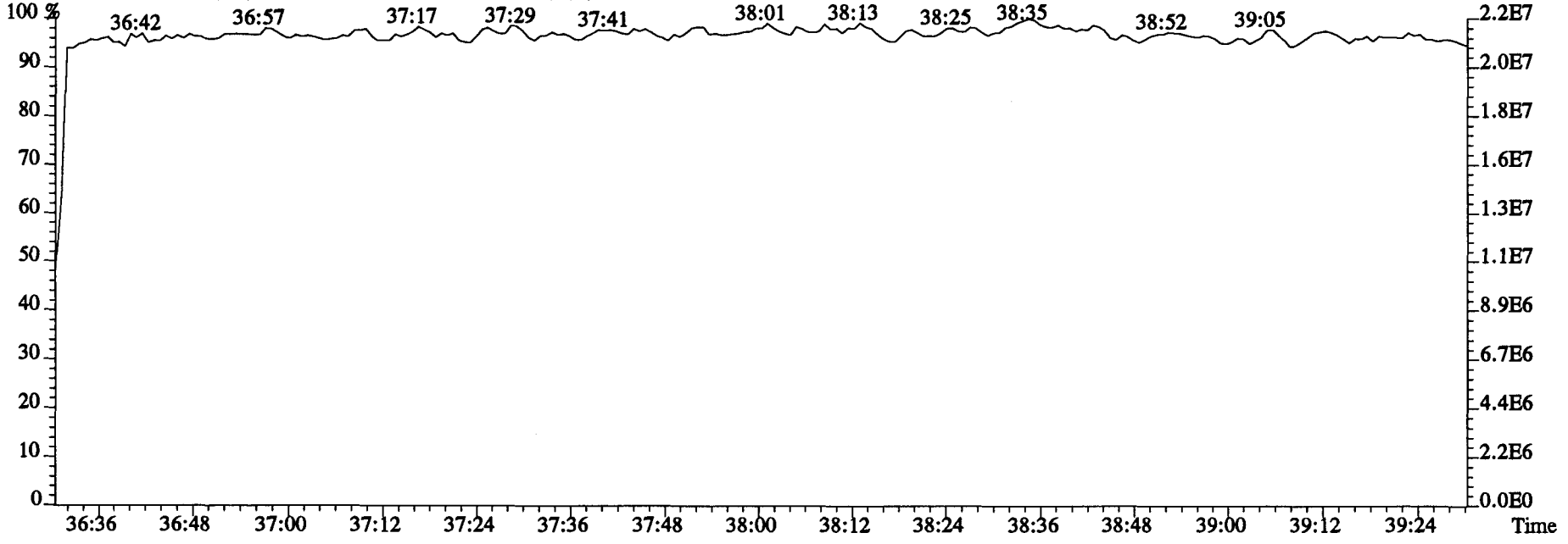




File:15DE109D5 #1-243 Acq:15-DEC-2010 14:59:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:MA8DF-1-AA :G0L110441-2 Exp:DIOXINRES
454.9728 S:8 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



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



Run text: MA8DJ-1-AA Sample text: MA8DJ-1-AA :G0L110441-5
Run #9 Filename: 15DE109D5 S: 9 I: 1 Results: 15DE109D5TO9SY
Acquired: 15-DEC-10 15:43:13 Processed: 16-DEC-10 10:00:57
Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.50 SAMP

12/16/10

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	127000700	0.76	y	19:12	-	160.97	-	-	n
13C-2,3,7,8-TCDF	129477400	0.78	y	18:37	1.11	3660.80	3.02	91.5	n
2,3,7,8-TCDF	508601	0.69	y	18:38	0.88	17.80	7.87	-	n
Total TCDF	4204400	0.78	y	15:56	0.88	147.11	7.87	-	y
13C-2,3,7,8-TCDD	116377100	0.74	y	19:24	0.97	3771.07	9.67	94.3	n
2,3,7,8-TCDD	*	*	n	NotFnd	0.87	*	2.85	-	n
Total TCDD	157812	0.41	n	16:56	0.87	~~6.22~~	2.85	-	n
37Cl-2,3,7,8-TCDD	53296200	1.00	y	19:25	1.22	1497.10	1.86	93.6	n
13C-1,2,3,7,8-PeCDF	104865100	1.48	y	24:16	0.92	3586.06	5.19	89.7	n
1,2,3,7,8-PeCDF	127944	1.19	n	24:17	1.06	~~4.58~~	7.41	-	n
2,3,4,7,8-PeCDF	*	*	n	NotFnd	1.03	*	7.68	-	n
Total F2 PeCDF	593331	1.53	y	22:44	1.05	~~21.55~~	7.54	-	n
Total F1 PeCDF	370950	1.83	n	19:12	1.05	~~13.53~~ 24.86	~~4.97~~	-	n
13C-1,2,3,7,8-PeCDD	102968700	1.50	y	26:36	0.83	3910.18	2.26	97.8	n
1,2,3,7,8-PeCDD	*	*	n	NotFnd	0.79	*	4.35	-	n
Total PeCDD	103324	2.59	n	24:17	0.79	~~5.06~~	4.35	-	n
13C-1,2,3,7,8,9-HxCDD	83982500	1.31	y	32:49	-	163.66	-	-	n
13C-1,2,3,4,7,8-HxCDF	82241100	0.51	y	31:39	1.07	3653.46	2.91	91.3	n
1,2,3,4,7,8-HxCDF	121278	0.93	n	31:41	1.06	JQ 5.55	3.61	-	n
1,2,3,6,7,8-HxCDF	104289	1.17	y	31:47	1.12	J 4.52	3.42	-	n
2,3,4,6,7,8-HxCDF	*	*	n	NotFnd	1.05	*	3.66	-	n
1,2,3,7,8,9-HxCDF	*	*	n	NotFnd	0.95	*	4.03	-	n
Total HxCDF	453715	1.06	y	30:17	1.05	~~20.68~~ 17.105	3.67	-	n
13C-1,2,3,6,7,8-HxCDD	71145200	1.17	y	32:33	0.89	3815.69	6.34	95.4	n
1,2,3,4,7,8-HxCDD	13018	1.69	n	32:29	1.11	~~0.66~~	1.68	-	y
1,2,3,6,7,8-HxCDD	20707	2.17	n	32:34	1.16	~~1.00~~	1.62	-	y
1,2,3,7,8,9-HxCDD	24451	2.71	n	32:48	1.20	~~1.14~~	1.56	-	n
Total HxCDD	181821	2.82	n	31:39	1.16	~~8.81~~ ~~6.00~~ 2.41	1.62	-	y
13C-1,2,3,4,6,7,8-HpCDF	81000800	0.44	y	34:17	0.95	JQ 4069.25	13.41	101.7	n
1,2,3,4,6,7,8-HpCDF	462801	1.34	n	34:17	1.44	J 15.92	1.81	-	n
1,2,3,4,7,8,9-HpCDF	127177	1.14	y	35:24	1.23	5.12	2.11	-	n
Total HpCDF	839890	1.34	n	34:17	1.33	30.32	1.95	-	n
13C-1,2,3,4,6,7,8-HpCDD	91512700	1.01	y	35:05	1.08	J 4053.28	7.55	101.3	n
1,2,3,4,6,7,8-HpCDD	151083	0.99	y	35:05	0.90	7.38	1.00	-	n
Total HpCDD	368923	3.90	n	34:17	0.90	~~18.01~~ 14.871	1.00	-	n
13C-OCDD	116192600	0.88	y	37:31	0.69	J 8022.24	5.79	100.3	n
OCDF	632828	0.86	y	37:37	1.18	36.92	2.47	-	n

OCDD	398889	0.97	y	37:31	1.14	J	24.12	/	3.17	- n

Run text: MA8DJ-1-AA Sample text: MA8DJ-1-AA :G0L110441-5
Run #9 Filename: 15DE109D5 S: 9 I: 1 Results: 15DE109D5TO9
Acquired: 15-DEC-10 15:43:13 Processed: 16-DEC-10 10:00:57
Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5
Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	127000700	0.76	y	19:12	-	160.966	-	-	n
13C-2,3,7,8-TCDF	129477400	0.78	y	18:37	1.11	3660.797	3.021	91.5	n
2,3,7,8-TCDF	508601	0.69	y	18:38	0.88	17.796	7.871	-	n
Total TCDF	4154389	0.78	y	15:56	0.88	~~145.363~~ 147.11	7.871	-	n
13C-2,3,7,8-TCDD	116377100	0.74	y	19:24	0.97	3771.073	9.665	94.3	n
2,3,7,8-TCDD	*	*	n	NotFnd	0.87	*	2.852	-	n
Total TCDD	157812	0.41	n	16:56	0.87	~~6.224~~	2.852	-	n
37Cl-2,3,7,8-TCDD	53296200	1.00	y	19:25	1.22	1497.096	1.859	93.6	n
13C-1,2,3,7,8-PeCDF	104865100	1.48	y	24:16	0.92	3586.058	5.194	89.7	n
1,2,3,7,8-PeCDF	127944	1.19	n	24:17	1.06	~~4.584~~	7.410	-	n
2,3,4,7,8-PeCDF	*	*	n	NotFnd	1.03	*	7.678	-	n
Total F2 PeCDF	593331	1.53	y	22:44	1.05	~~21.554~~ 24.806	7.542	-	n
Total F1 PeCDF	370950	1.83	n	19:12	1.05	~~13.526~~	~~4.967~~	-	n
13C-1,2,3,7,8-PeCDD	102968700	1.50	y	26:36	0.83	3910.176	2.264	97.8	n
1,2,3,7,8-PeCDD	*	*	n	NotFnd	0.79	*	4.347	-	n
Total PeCDD	103324	2.59	n	24:17	0.79	~~5.061~~	4.347	-	n
13C-1,2,3,7,8,9-HxCDD	83982500	1.31	y	32:49	-	163.663	-	-	n
13C-1,2,3,4,7,8-HxCDF	82241100	0.51	y	31:39	1.07	3653.462	2.912	91.3	n
1,2,3,4,7,8-HxCDF	121278	0.93	n	31:41	1.06	JQ 5.550 J	3.611	-	n
1,2,3,6,7,8-HxCDF	104289	1.17	y	31:47	1.12	4.522	3.421	-	n
2,3,4,6,7,8-HxCDF	*	*	n	NotFnd	1.05	*	3.661	-	n
1,2,3,7,8,9-HxCDF	*	*	n	NotFnd	0.95	*	4.028	-	n
Total HxCDF	453715	1.06	y	30:17	1.05	~~20.678~~ 17.105	3.667	-	n
13C-1,2,3,6,7,8-HxCDD	71145200	1.17	y	32:33	0.89	3815.688	6.344	95.4	n
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	1.11	*	1.682	-	n
1,2,3,6,7,8-HxCDD	34725	1.36	y	32:34	1.16	1.684	1.616	-	n
1,2,3,7,8,9-HxCDD	24451	2.71	n	32:48	1.20	1.144	1.559	-	n
Total HxCDD	264634	0.38	n	29:17	1.16	12.802	1.618	-	n
13C-1,2,3,4,6,7,8-HpCDF	81000800	0.44	y	34:17	0.95	4069.254	13.407	101.7	n
1,2,3,4,6,7,8-HpCDF	462801	1.34	n	34:17	1.44	15.924	1.806	-	n
1,2,3,4,7,8,9-HpCDF	127177	1.14	y	35:24	1.23	5.120	2.114	-	n
Total HpCDF	839890	1.34	n	34:17	1.33	30.316	1.948	-	n
13C-1,2,3,4,6,7,8-HpCDD	91512700	1.01	y	35:05	1.08	4053.280	7.546	101.3	n
1,2,3,4,6,7,8-HpCDD	151083	0.99	y	35:05	0.90	7.376	1.005	-	n
Total HpCDD	368923	3.90	n	34:17	0.90	18.011	1.005	-	n
13C-OCDD	116192600	0.88	y	37:31	0.69	8022.235	5.792	100.3	n
OCDF	632828	0.86	y	37:37	1.18	36.924	2.475	-	n
OCDD	398889	0.97	y	37:31	1.14	24.122	3.167	-	n

Run Text: MA8DJ-1-AA Sample text: MA8DJ-1-AA :G0L110441-5

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:10
Run: 9 File: 15DE109D5 S:9 Acq:15-DEC-10 15:43:13
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	72.682 of which	8.898 named and	63.784 unnamed
Conc:	145.363 of which	17.796 named and	127.567 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:56	0.781 y	13.329	167027	4.401	y	n
					213913	8.748	y	n
	2	16:18	0.340 n	1.655	20581	0.903	n	n
					60477	2.639	n	n
	3	16:46	0.683 y	32.999	382834	7.880	y	n
					560265	19.207	y	n
	4	17:02	0.935 n	15.065	227539	4.377	y	n
					243254	7.068	y	n
	5	17:21	0.726 y	13.978	168095	2.131	n	n
					231385	5.342	y	n
	6	17:37	0.759 y	13.713	169109	3.845	y	n
					222793	7.895	y	n
	7	17:54	0.573 n	9.889	122945	2.496	n	n
					214509	6.767	y	n
	8	18:00	0.848 y	14.537	190627	3.399	y	n
					224833	8.094	y	n
	9	18:13	0.642 n	12.401	154185	3.687	y	n
					240237	9.110	y	n
2,3,7,8-TCDF	10	18:38	0.690 y	17.796	207580	3.608	y	n
					301021	9.098	y	n

See P1A

Run Text: MA8DJ-1-AA Sample text: MA8DJ-1-AA :G0L110441-5

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:3
Run: 9 File: 15DE109D5 S:9 Acq:15-DEC-10 15:43:13
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	3.112 of which	* named and	3.112 unnamed
Conc:	6.224 of which	* named and	6.224 unnamed

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

Run Text: MA8DJ-1-AA Sample text: MA8DJ-1-AA :G0L110441-5

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? yes #Hom:9
Run: 9 File: 15DE109D5 S:9 Acq:15-DEC-10 15:43:13
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount: 73.56 of which 8.90 named and 64.66 unnamed
Conc: 147.11 of which 17.80 named and 129.32 unnamed

✓

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	15:56	0.78	y	13.33	167027	4.4	y	n
						213913	8.7	y	n
	2	16:46	0.68	y	33.00	382834	7.9	y	n
						560265	19.2	y	n
	3	17:02	0.94	n	15.07	227539	4.4	y	n
						243254	7.1	y	n
	4	17:21	0.73	y	13.98	168095	2.1	n	n
						231385	5.3	y	n
	5	17:37	0.76	y	13.71	169109	3.8	y	n
						222793	7.9	y	n
	6	17:54	0.80	y	13.52	171852	2.5	n	y
						214509	6.8	y	n
	7	18:00	0.84	y	14.46	188364	3.4	y	y
						224833	8.1	y	n
	8	18:13	0.63	n	12.26	152373	3.7	y	y
						240237	9.1	y	n
2,3,7,8-TCDF	9	18:38	0.69	y	17.80	207580	3.6	y	n
						301021	9.1	y	n

P1A

	1	16:56	0.408	n	1.689	18636	2.054	n n
						45674	3.575	y n
	2	17:15	1.153	n	2.534	41854	3.582	y n
						36298	3.960	y n
	3	18:37	3.038	n	2.000	87061	7.644	y n
						28659	2.407	n n

Run Text: MA8DJ-1-AA Sample text: MA8DJ-1-AA :G0L110441-5

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:2
Run: 9 File: 15DE109D5 S:9 Acq:15-DEC-10 15:43:13
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	10.777 of which	2.292 named and	8.485 unnamed
Conc:	21.554 of which	4.584 named and	16.970 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	22:44	1.527	y	16.970	281189	5.214	y	n
						184198	7.411	y	n
1,2,3,7,8-PeCDF	2	24:17	1.194	n	4.584	77770	1.992	n	n
						65132	3.235	y	n

Run Text: MA8DJ-1-AA Sample text: MA8DJ-1-AA :G0L110441-5

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:3
Run: 9 File: 15DE109D5 S:9 Acq:15-DEC-10 15:43:13
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	6.763 of which	* named and	6.763 unnamed
Conc:	13.526 of which	* named and	13.526 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	19:12	1.827	n	3.542	69603	4.279	y	n
						38097	2.468	n	n
	2	19:24	3.289	n	2.148	75972	4.132	y	n
						23098	1.449	n	n
	3	20:59	1.547	y	7.836	130535	6.020	y	n
						84366	4.551	y	n

Run Text: MA8DJ-1-AA Sample text: MA8DJ-1-AA :G0L110441-5

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:2
Run: 9 File: 15DE109D5 S:9 Acq:15-DEC-10 15:43:13
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	2.530 of which	* named and	2.530	unnamed
Conc:	5.061 of which	* named and	5.061	unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	24:17	2.590 n	3.262	67640	3.921	y	n
					26113	2.398	n	n
	2	25:45	4.460 n	1.799	64254	3.527	y	n
					14406	1.624	n	n

Run Text: MA8DJ-1-AA Sample text: MA8DJ-1-AA :G0L110441-5

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:4
Run: 9 File: 15DE109D5 S:9 Acq:15-DEC-10 15:43:13
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	10.339 of which	5.036 named and	5.303	unnamed
Conc:	20.678 of which	10.073 named and	10.606	unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	30:17	1.056 y	3.573	39476	1.511	n	n
					37375	4.957	y	n
	2	30:32	0.968 n	7.033	83754	3.320	y	n
					86550	8.990	y	n
1,2,3,4,7,8-HxCDF	3	31:41	0.931 n	5.550	67136	2.770	n	n
					72131	7.791	y	n
1,2,3,6,7,8-HxCDF	4	31:47	1.170 y	4.522	56240	3.326	y	n
					48048	7.041	y	n

17.105

Run Text: MA8DJ-1-AA Sample text: MA8DJ-1-AA :G0L110441-5

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:9
Run: 9 File: 15DE109D5 S:9 Acq:15-DEC-10 15:43:13
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	6.401 of which	1.414 named and	4.987	unnamed
Conc:	12.802 of which	2.828 named and	9.974	unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	29:17	0.379 n	0.184	2101	0.412	n	n
					5550	0.734	n	n
	2	31:08	1.123 y	0.959	10453	2.272	n	n
					9307	2.072	n	n
	3	31:39	2.817 n	2.412	62486	10.145	y	n
					22185	4.241	y	n
	4	31:46	3.611 n	1.696	56338	10.333	y	n
					15600	2.741	n	n
	5	31:57	2.154 n	1.188	23537	4.021	y	n
					10925	2.371	n	n
	6	32:19	3.274 n	1.893	57018	10.747	y	n
					17413	2.883	n	n
1,2,3,6,7,8-HxCDD	7	32:34	1.362 y	1.684	20022	3.048	y	n
					14703	1.248	n	n
1,2,3,7,8,9-HxCDD	8	32:48	2.708 n	1.144	29560	3.036	y	n
					10916	2.311	n	n
	9	32:59	3.863 n	1.640	58269	9.840	y	n
					15083	2.640	n	n

See P7A

Run Text: MA8DJ-1-AA Sample text: MA8DJ-1-AA :G0L110441-5

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4
Run: 9 File: 15DE109D5 S:9 Acq:15-DEC-10 15:43:13
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D5

Amount:	15.158 of which	10.522 named and	4.636 unnamed
Conc:	30.316 of which	21.043 named and	9.273 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	34:17	1.340 n	15.924	303885	24.558	y	n
					226863	39.759	y	n
	2	34:29	0.860 n	3.452	47426	3.612	y	n
					55124	11.559	y	n
	3	34:36	1.128 y	5.821	83146	6.088	y	n
					73738	13.001	y	n
1,2,3,4,7,8,9-HpCDF	4	35:24	1.145 y	5.120	67885	5.172	y	n
					59291	11.115	y	n

Run Text: MA8DJ-1-AA Sample text: MA8DJ-1-AA :G0L110441-5

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? yes #Hom:6
Run: 9 File: 15DE109D5 S:9 Acq:15-DEC-10 15:43:13
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	4.40 of which	1.40 named and	3.00 unnamed
Conc:	8.81 of which	2.81 named and	6.00 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?	
	1	31:39	2.82	n	2.41	62486	10.1	y	n	
						22185	4.2	y	n	
	2	31:46	3.61	n	1.70	56338	10.3	y	n	
						15600	2.7	n	n	
	3	32:19	3.27	n	1.89	57018	10.7	y	n	
						17413	2.9	n	n	
1,2,3,4,7,8-HxCDD	4	32:29	1.69	n	0.66	9829	1.9	n	n	
						5812	1.2	n	y	
1,2,3,6,7,8-HxCDD	5	32:34	2.17	n	1.00	20022	3.0	y	n	
						9244	1.3	n	y	
1,2,3,7,8,9-HxCDD	6	32:48	2.71	n	1.14	29560	3.0	y	n	
						10916	2.3	n	n	

P7A

6.0

Run Text: MA8DJ-1-AA Sample text: MA8DJ-1-AA :G0L110441-5

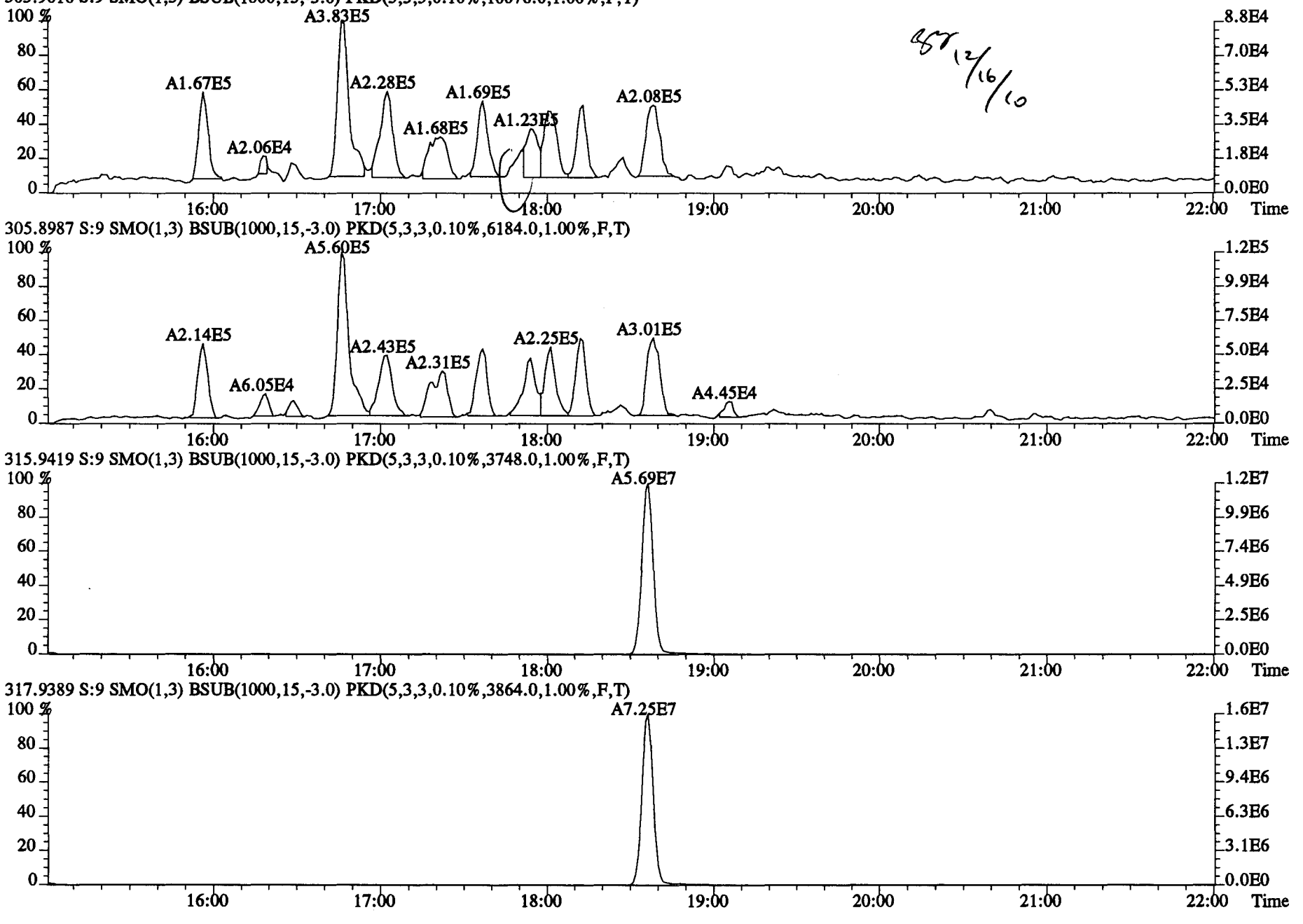
Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:4
Run: 9 File: 15DE109D5 S:9 Acq:15-DEC-10 15:43:13
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	9.006	of which	3.688	named and	5.318	unnamed			
Conc:	18.011	of which	7.376	named and	10.635	unnamed			

Name	#	R.T.	Ratio	Conc.		Area	S/N	>?	Mod?
	1	34:17	3.899 n	1.394		54549	16.244	y	n
						13992	4.608	y	n
	2	34:32	1.178 y	7.495	✓	83038	22.729	y	n
						70475	24.135	y	n
1,2,3,4,6,7,8-HpCDD	3	35:05	0.986 y	7.376	✓	74993	17.190	y	n
						76090	25.197	y	n
	4	35:23	2.511 n	1.747		44039	10.882	y	n
						17541	5.743	y	n

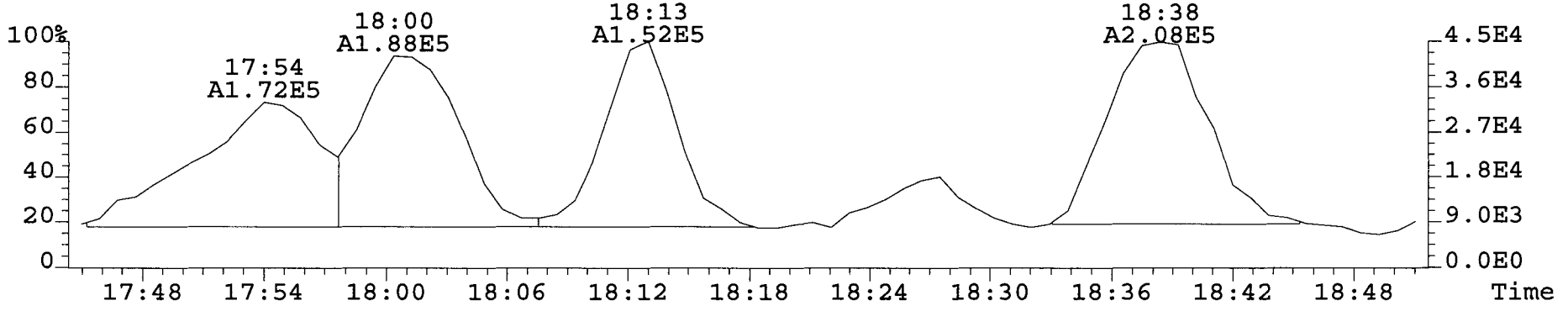
14871

File:15DE109D5 #1-464 Acq:15-DEC-2010 15:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:MA8DJ-1-AA :G0L110441-5 Exp:DIOXINRES

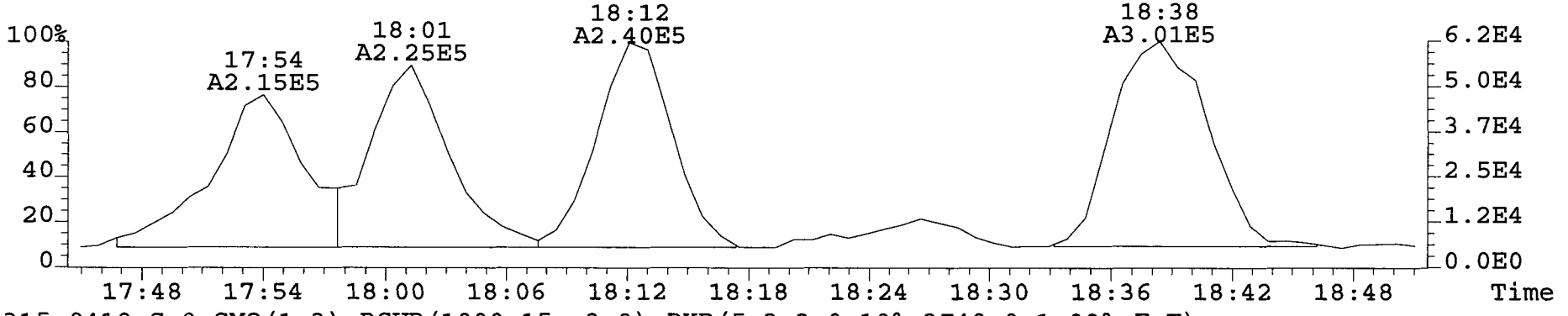


12/16/10

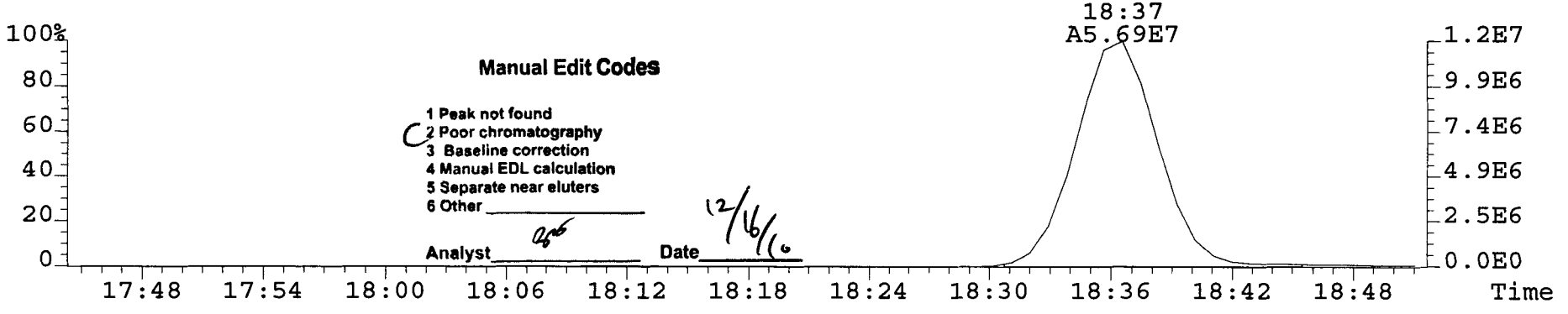
File:15DE109D5 #1-464 Acq:15-DEC-2010 15:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:MA8DJ-1-AA :G0L110441-5 Exp:DIOXINRES
303.9016 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10076.0,1.00%,F,T)



305.8987 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6184.0,1.00%,F,T)



315.9419 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3748.0,1.00%,F,T)



Manual Edit Codes

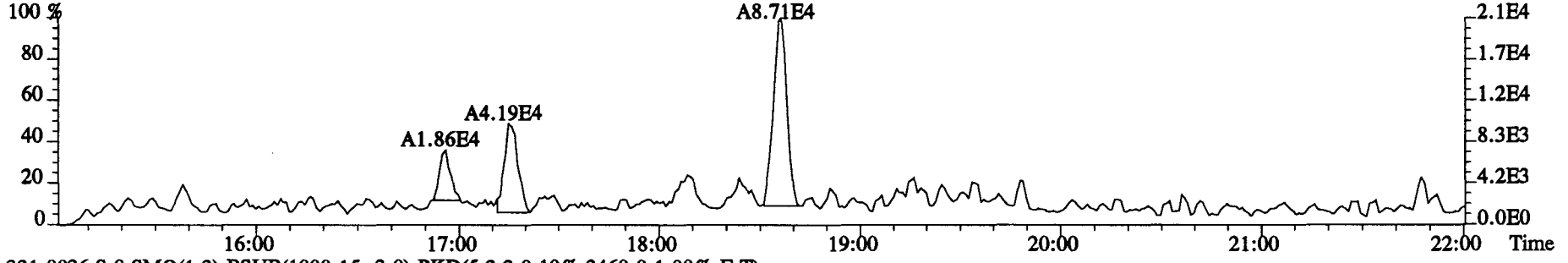
1 Peak not found
2 Poor chromatography
3 Baseline correction
4 Manual EDL calculation
5 Separate near eluters
6 Other _____

C

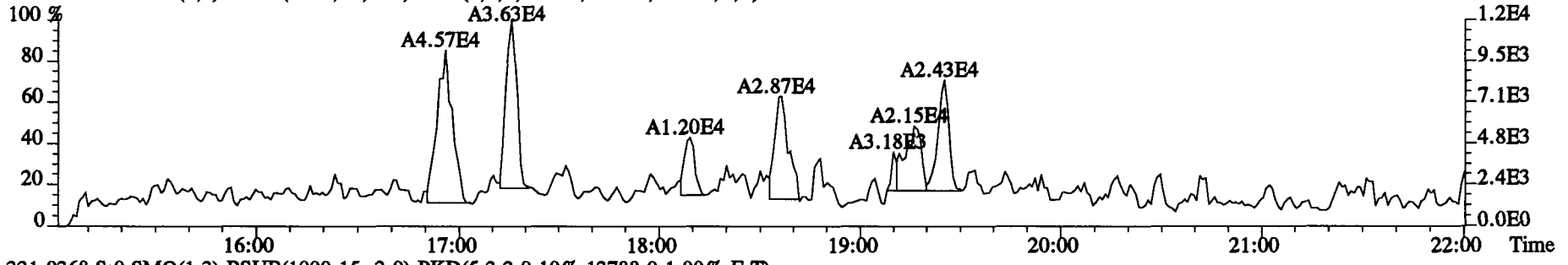
Analyst _____ Date 12/16/10

File:15DE109D5 #1-464 Acq:15-DEC-2010 15:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:MA8DJ-1-AA :G0L110441-5 Exp:DIOXINRES

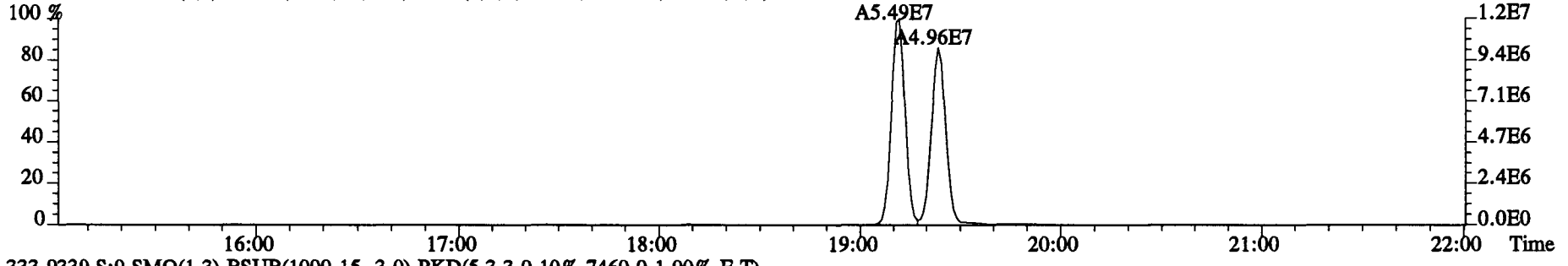
319.8965 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2472.0,1.00%,F,T)



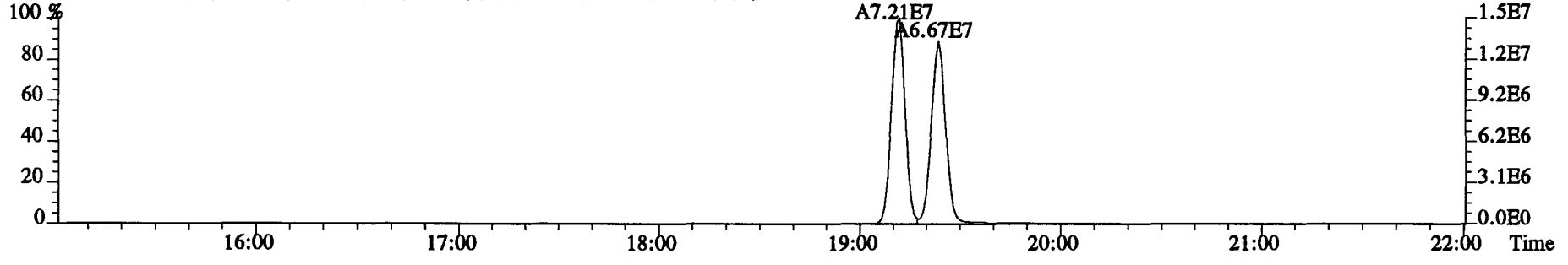
321.8936 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2460.0,1.00%,F,T)



331.9368 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13788.0,1.00%,F,T)

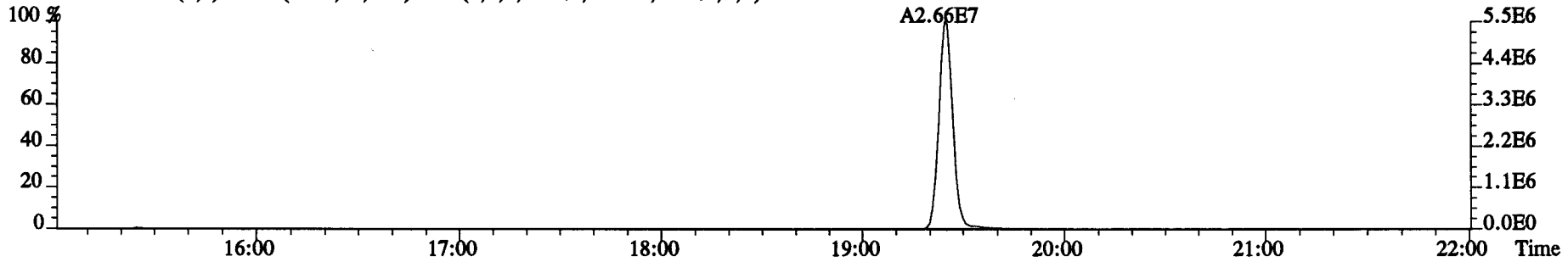


333.9339 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7460.0,1.00%,F,T)

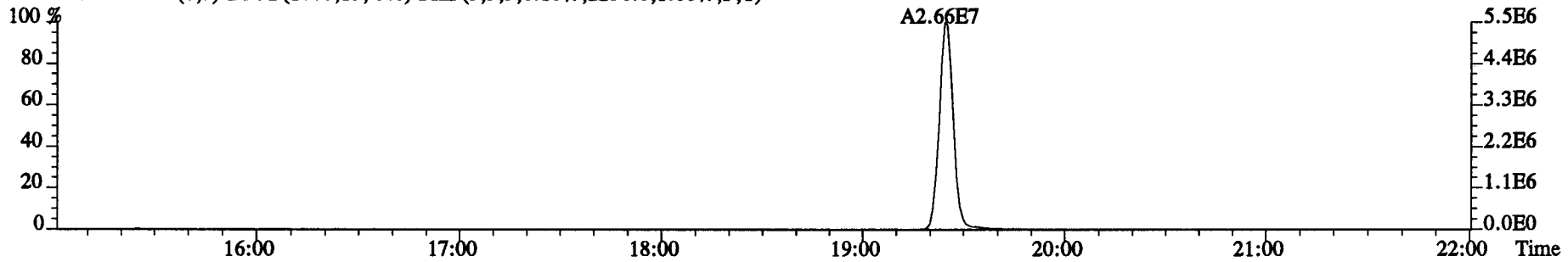


File:15DE109D5 #1-464 Acq:15-DEC-2010 15:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:MA8DJ-1-AA :G0L110441-5 Exp:DIOXINRES

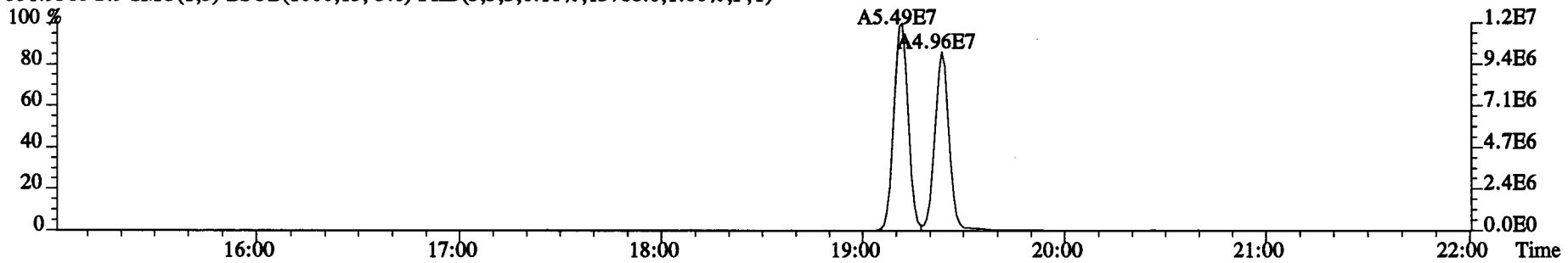
327.8847 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2256.0,1.00%,F,T)



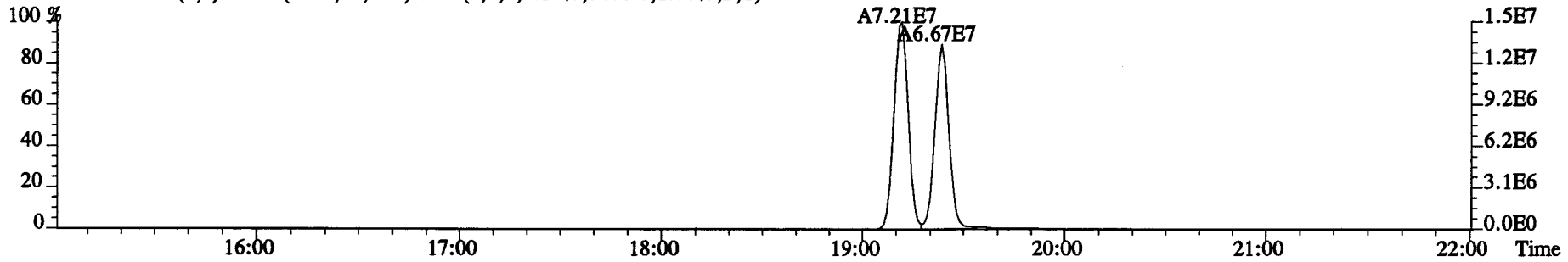
327.8847 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2256.0,1.00%,F,T)



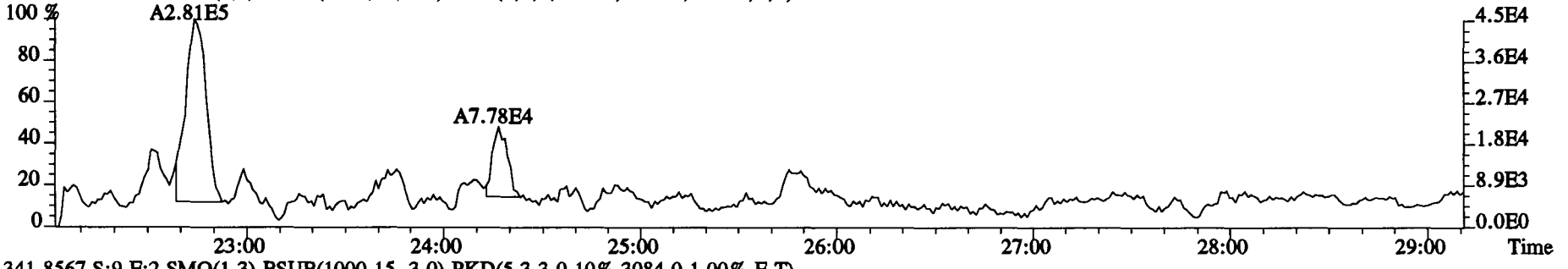
331.9368 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13788.0,1.00%,F,T)



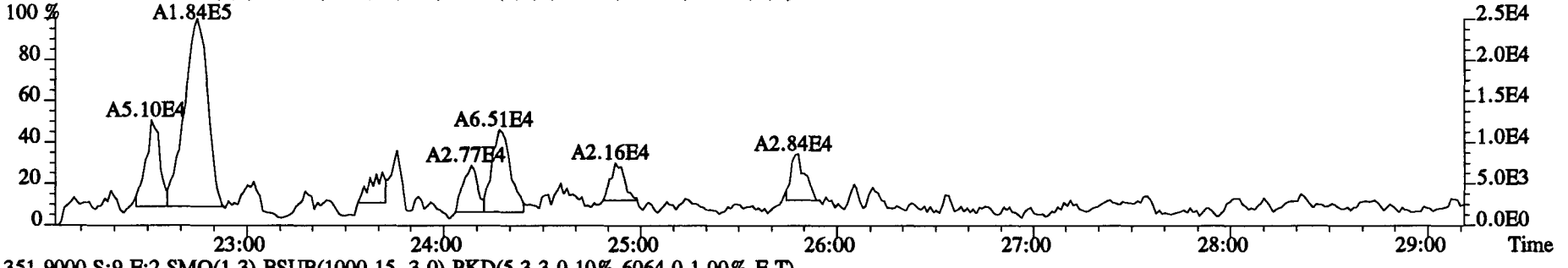
333.9339 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7460.0,1.00%,F,T)



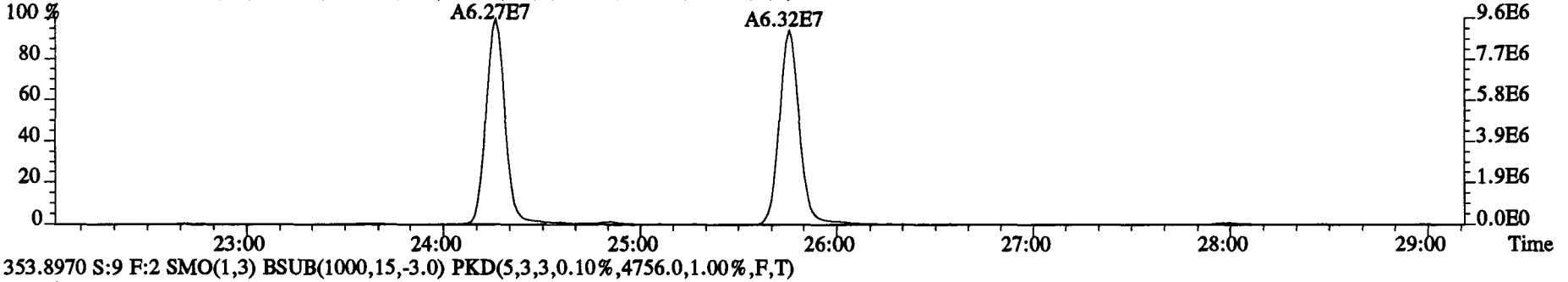
File:15DE109D5 #1-460 Acq:15-DEC-2010 15:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:MA8DJ-1-AA :G0L110441-5 Exp:DIOXINRES
339.8597 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7532.0,1.00%,F,T)



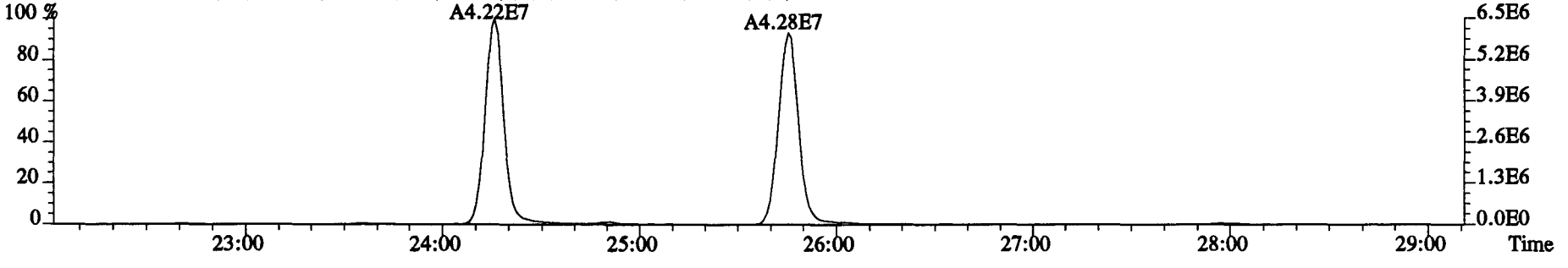
341.8567 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3084.0,1.00%,F,T)



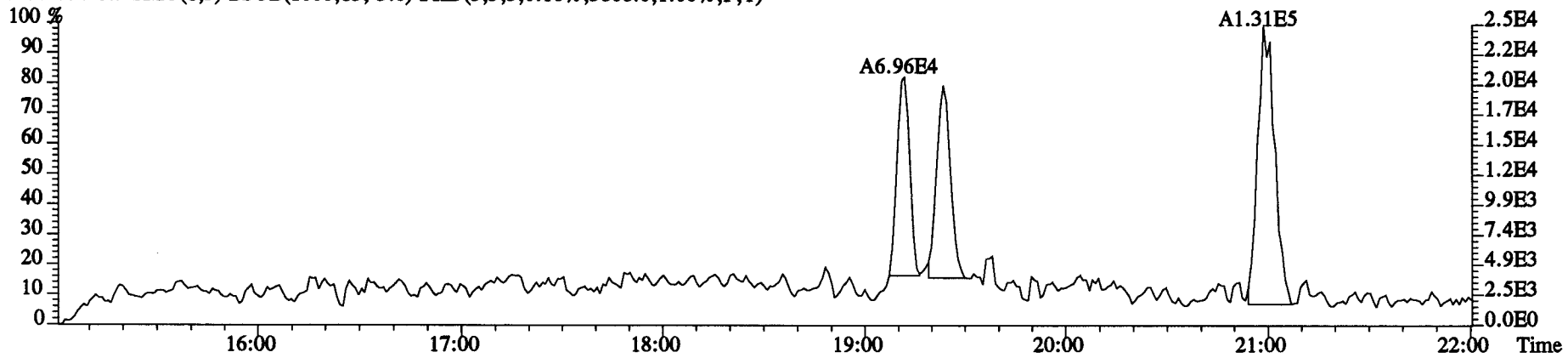
351.9000 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6064.0,1.00%,F,T)



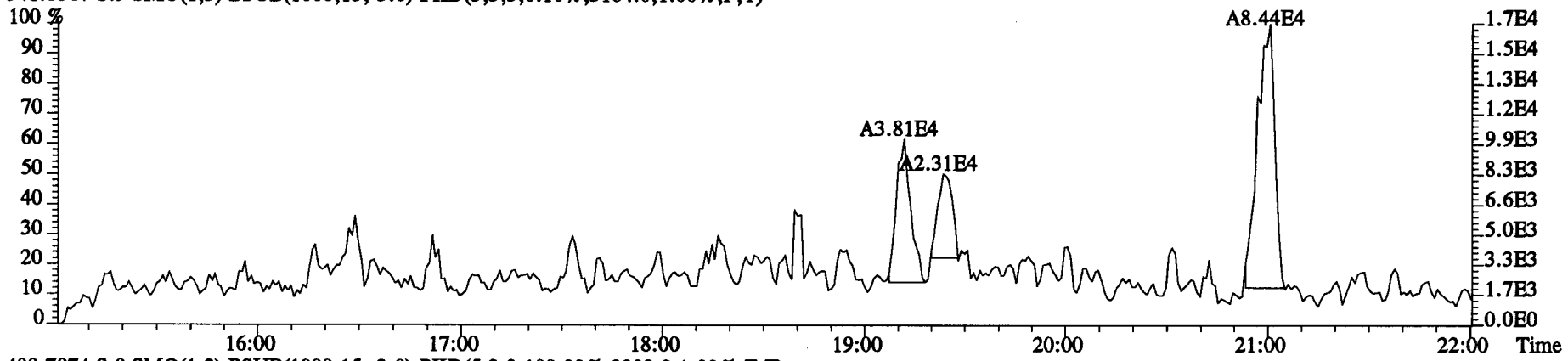
353.8970 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4756.0,1.00%,F,T)



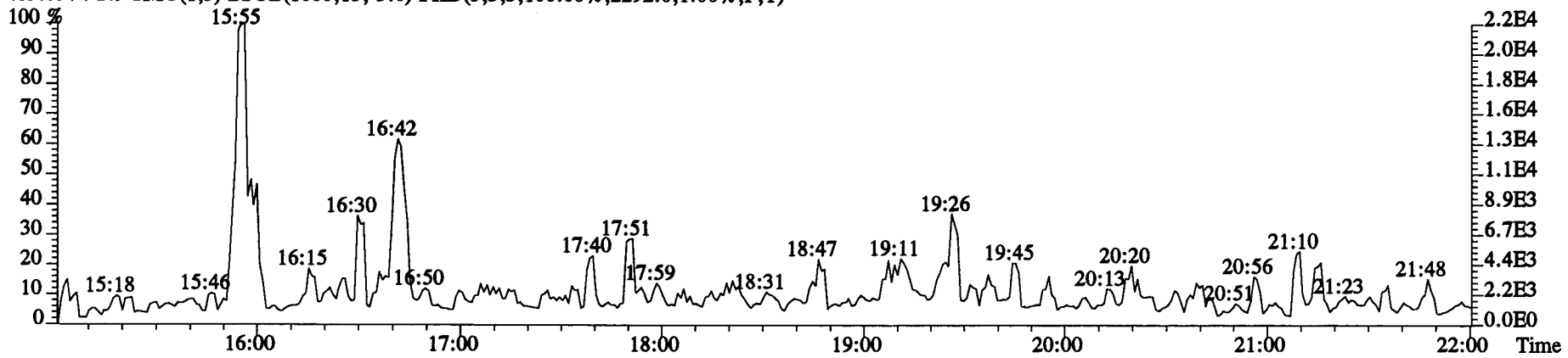
File:15DE109D5 #1-464 Acq:15-DEC-2010 15:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:MA8DJ-1-AA :G0L110441-5 Exp:DIOXINRES
339.8597 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3808.0,1.00%,F,T)



341.8567 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3184.0,1.00%,F,T)

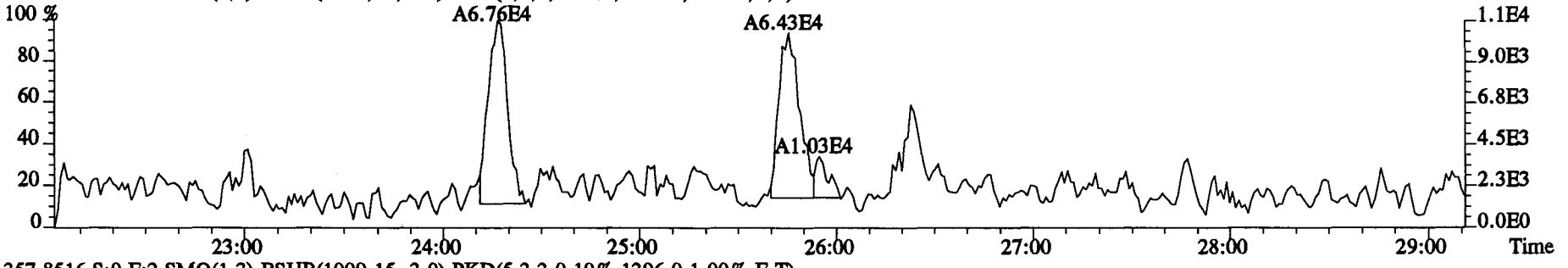


409.7974 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2292.0,1.00%,F,T)

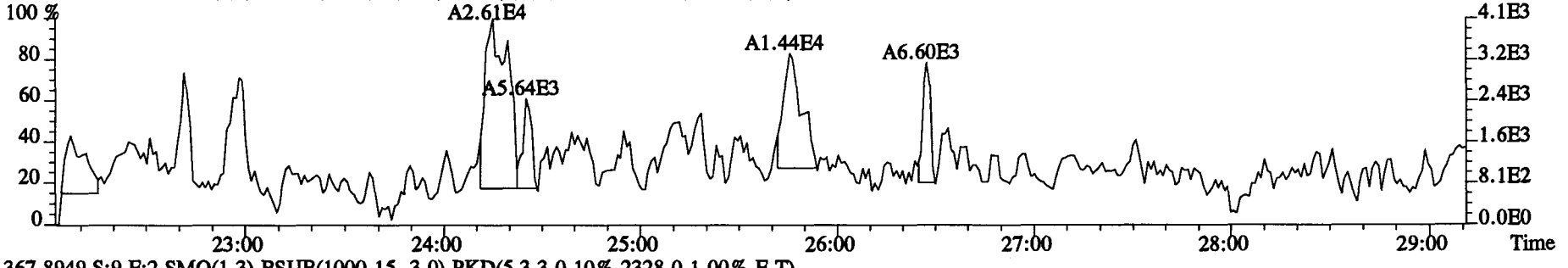


File:15DE109D5 #1-460 Acq:15-DEC-2010 15:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:MA8DJ-1-AA :G0L110441-5 Exp:DIOXINRES

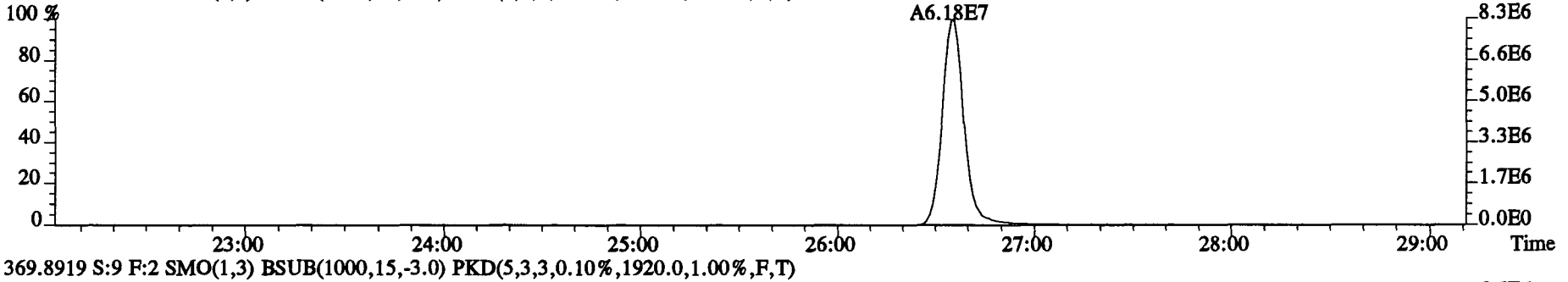
355.8546 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2544.0,1.00%,F,T)



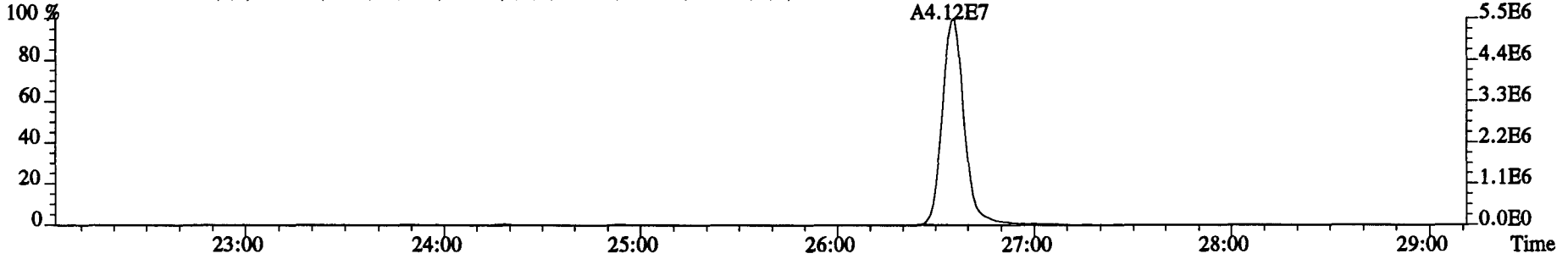
357.8516 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1396.0,1.00%,F,T)



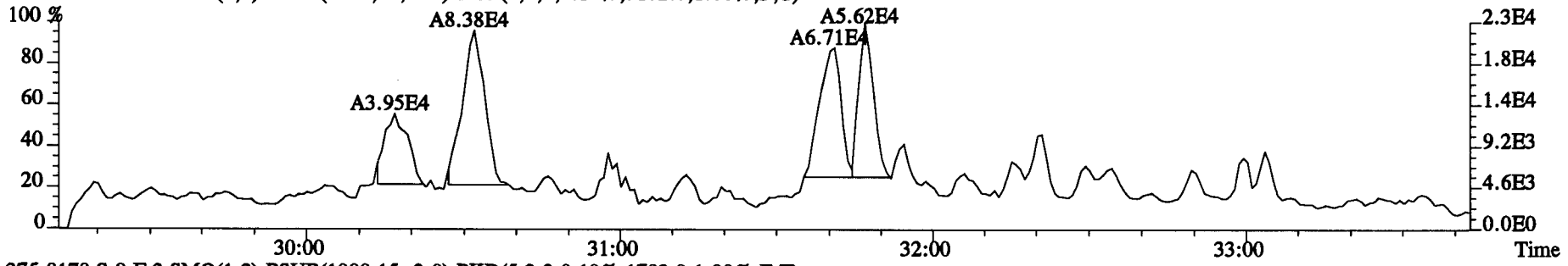
367.8949 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2328.0,1.00%,F,T)

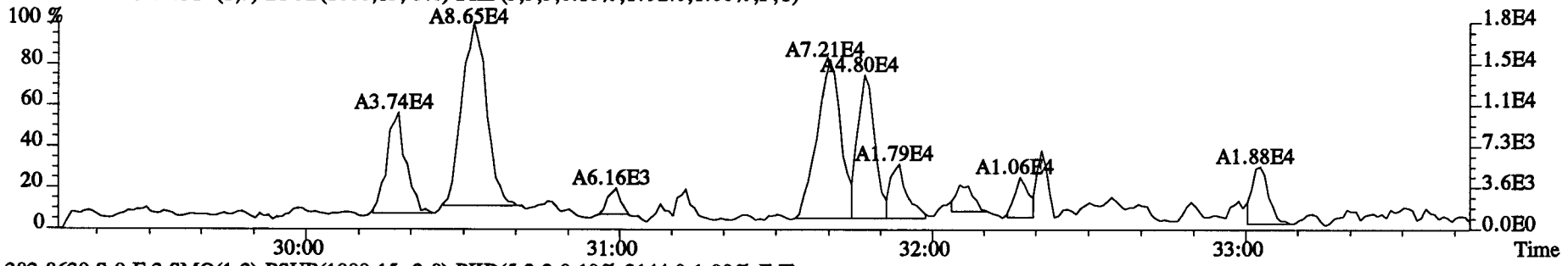


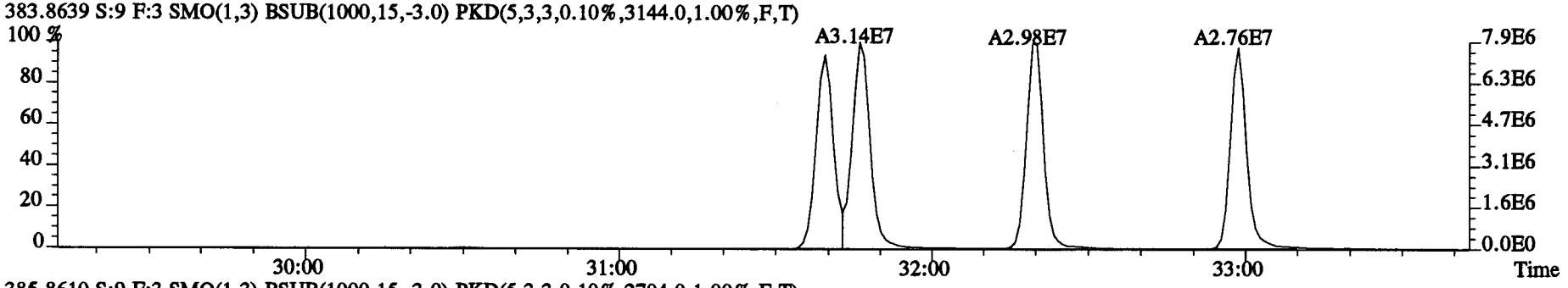
369.8919 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1920.0,1.00%,F,T)

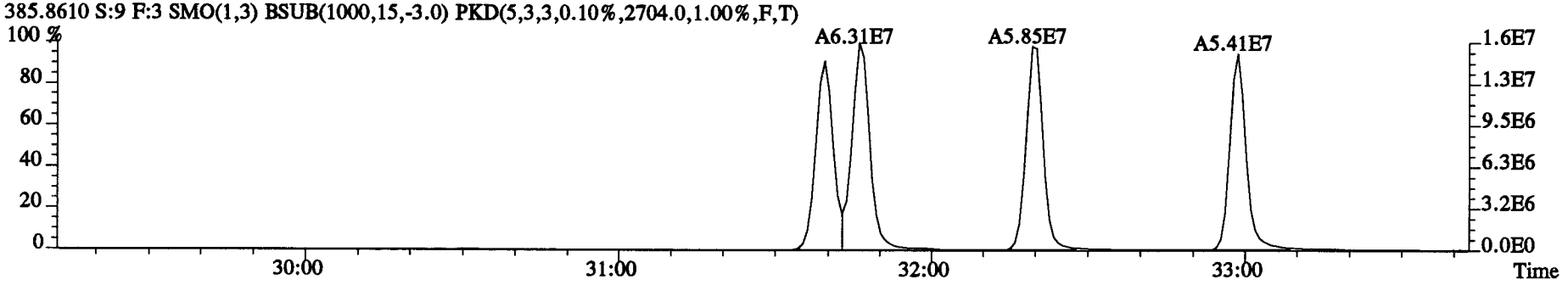


File:15DE109D5 #1-325 Acq:15-DEC-2010 15:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:MA8DJ-1-AA :G0L110441-5 Exp:DIOXINRES



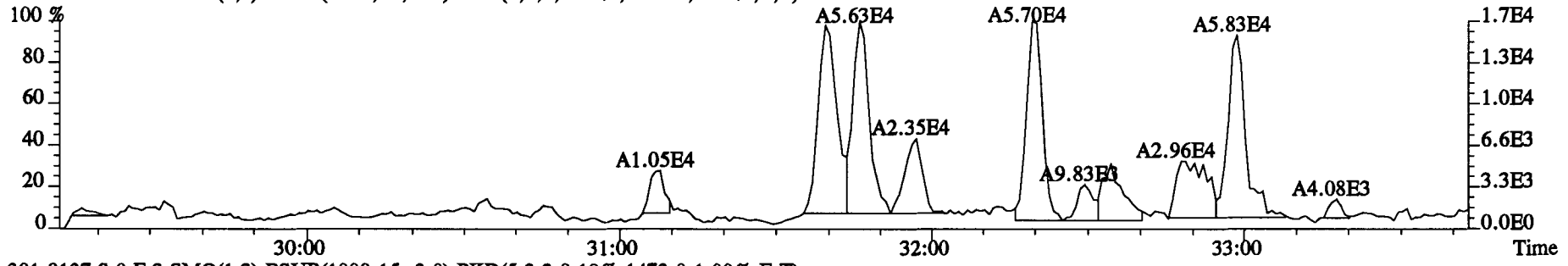


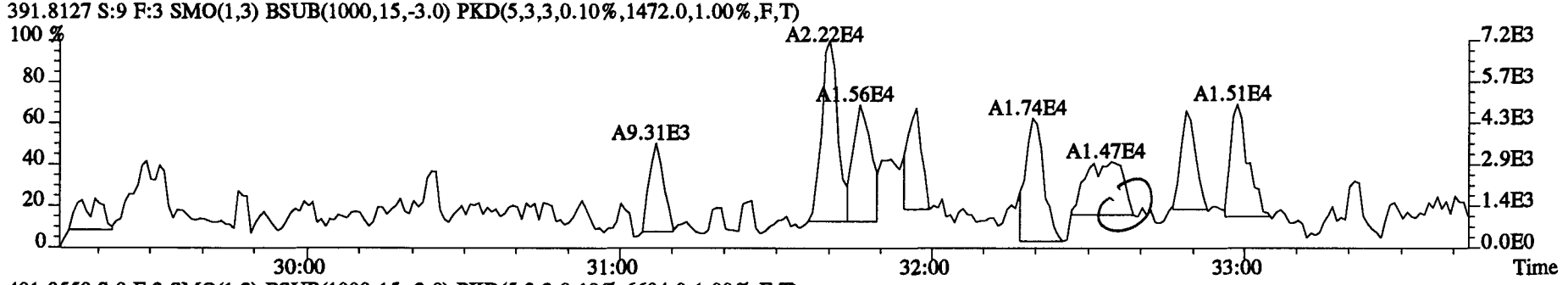


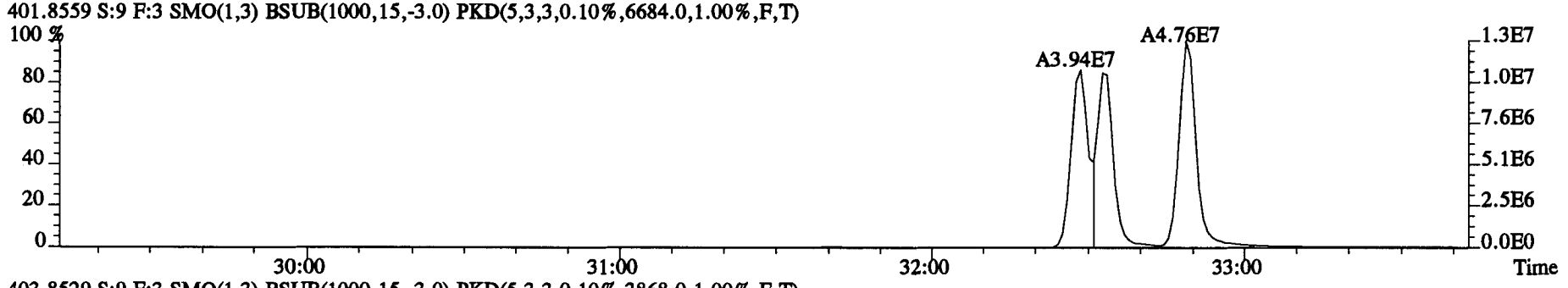


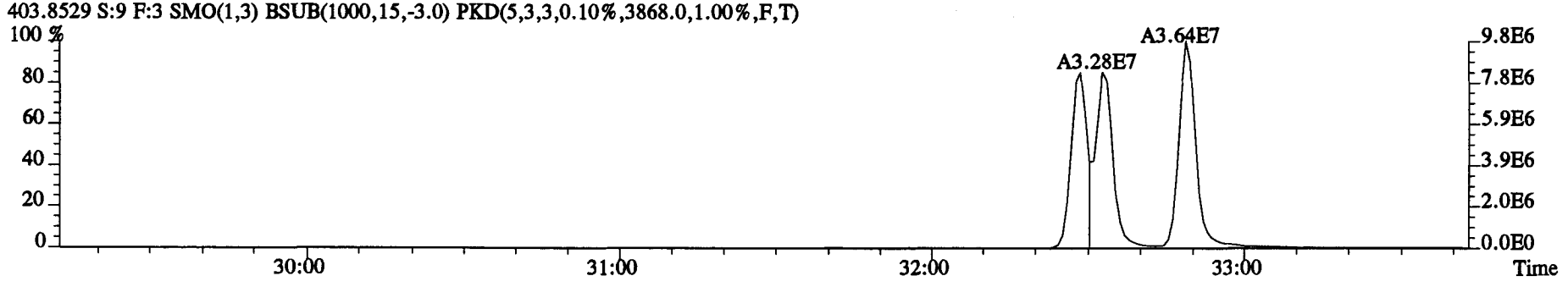
12/16/10

File:15DE109D5 #1-325 Acq:15-DEC-2010 15:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:MA8DJ-1-AA :G0L110441-5 Exp:DIOXINRES

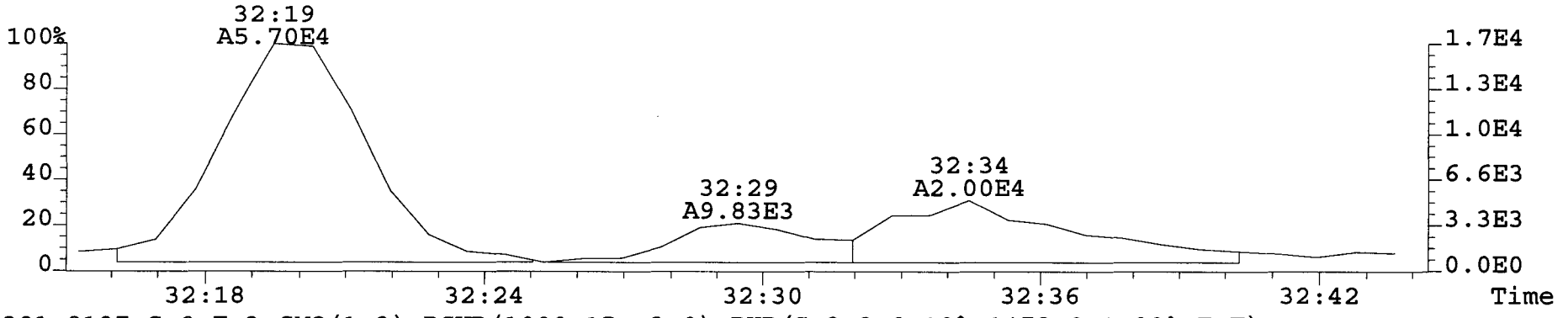




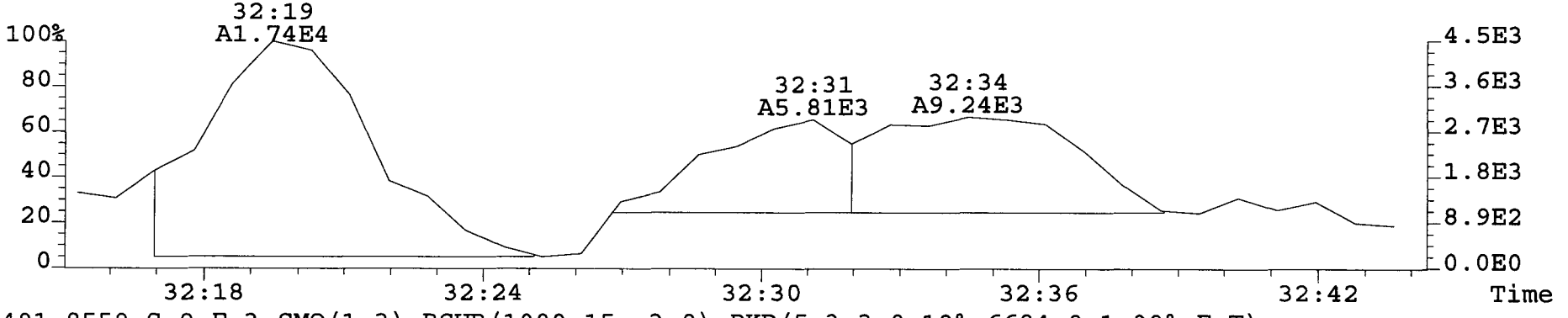




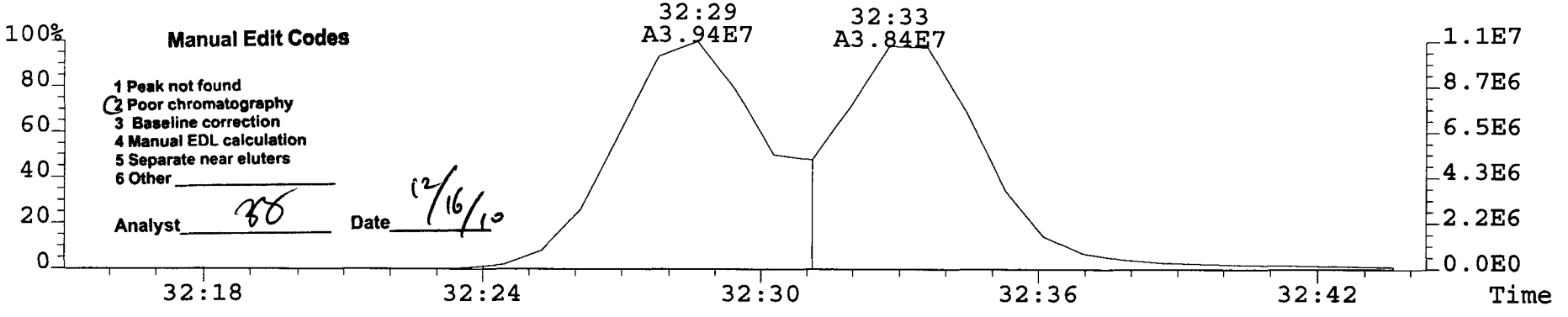
File:15DE109D5 #1-325 Acq:15-DEC-2010 15:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:MA8DJ-1-AA :G0L110441-5 Exp:DIOXINRES
389.8157 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1484.0,1.00%,F,T)



391.8127 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1472.0,1.00%,F,T)



401.8559 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6684.0,1.00%,F,T)

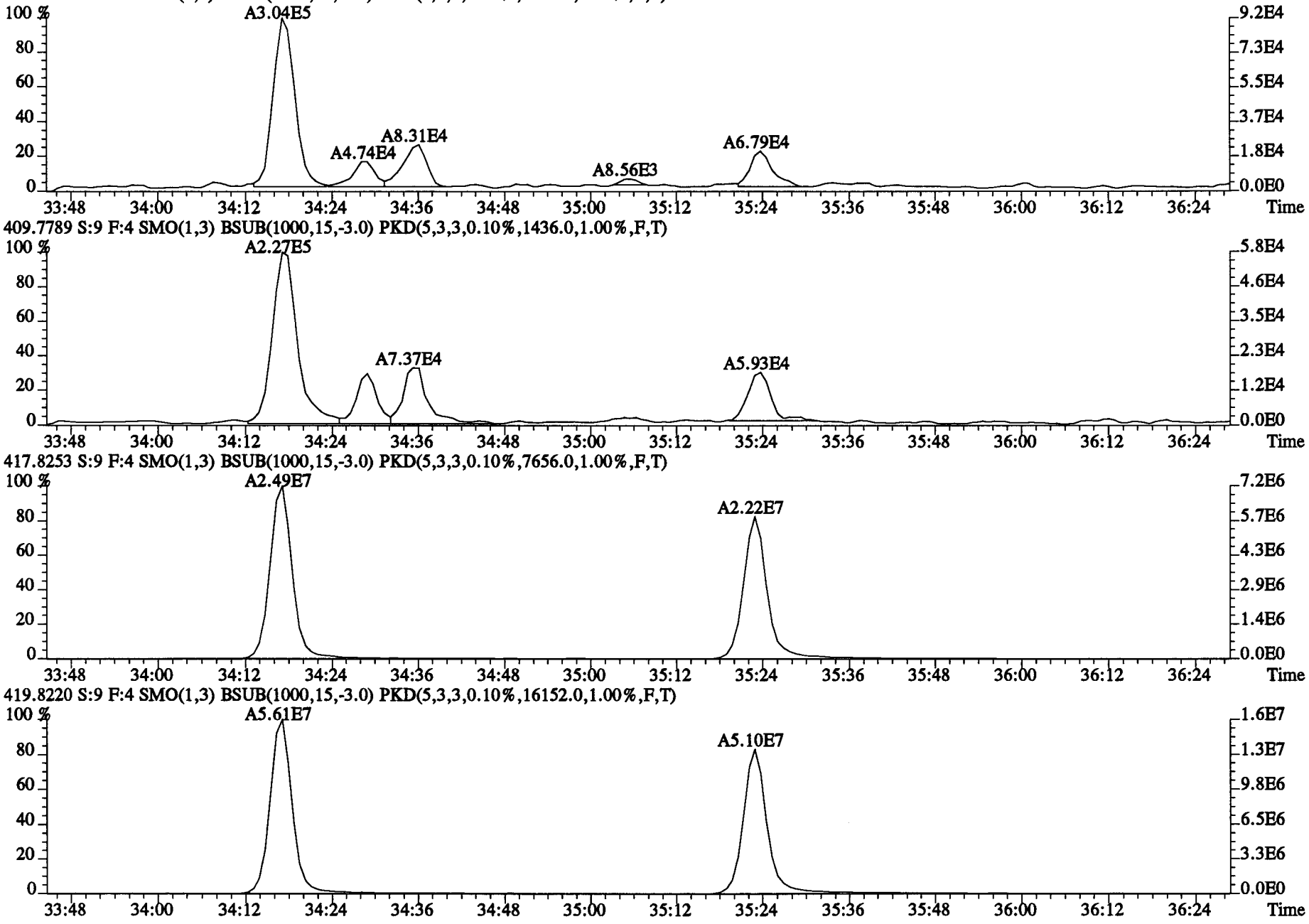


Manual Edit Codes

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

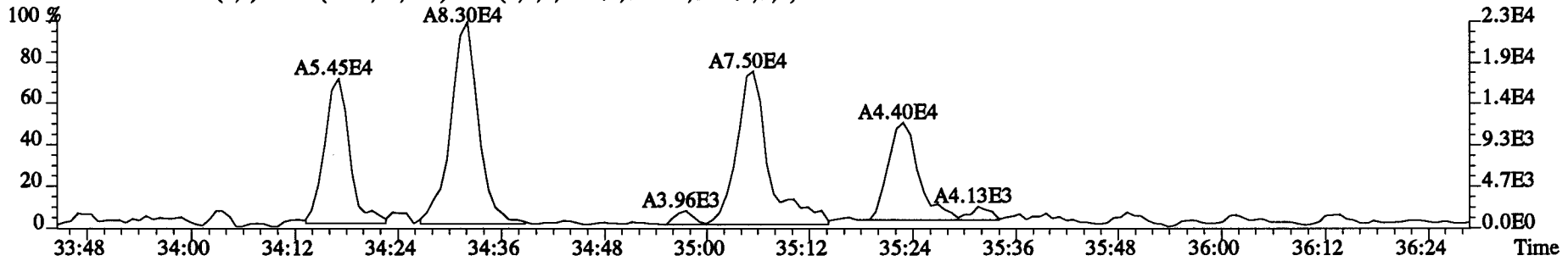
Analyst BB Date 12/16/10

File:15DE109D5 #1-208 Acq:15-DEC-2010 15:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:MA8DJ-1-AA :G0L110441-5 Exp:DIOXINRES

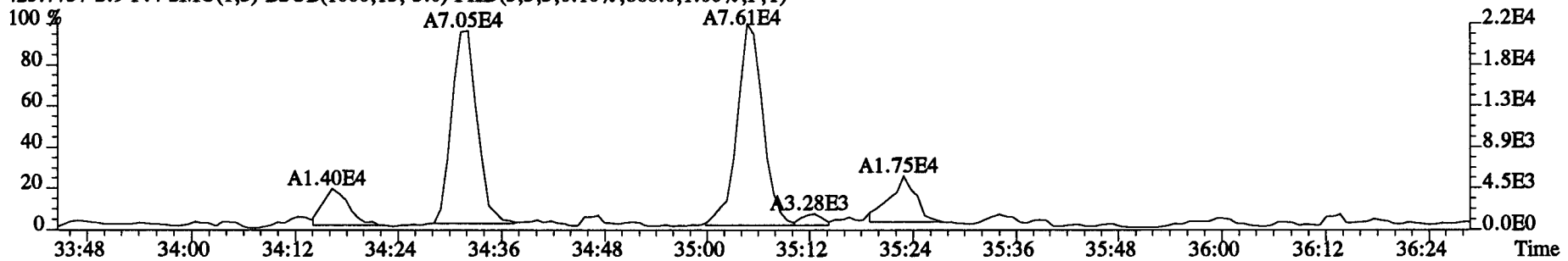


File:15DE109D5 #1-208 Acq:15-DEC-2010 15:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:MA8DJ-1-AA :G0L110441-5 Exp:DIOXINRES

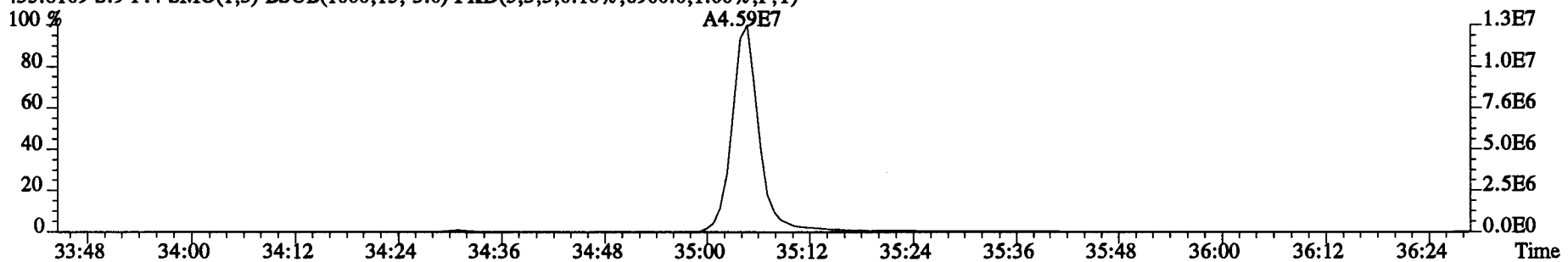
423.7766 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1004.0,1.00%,F,T)



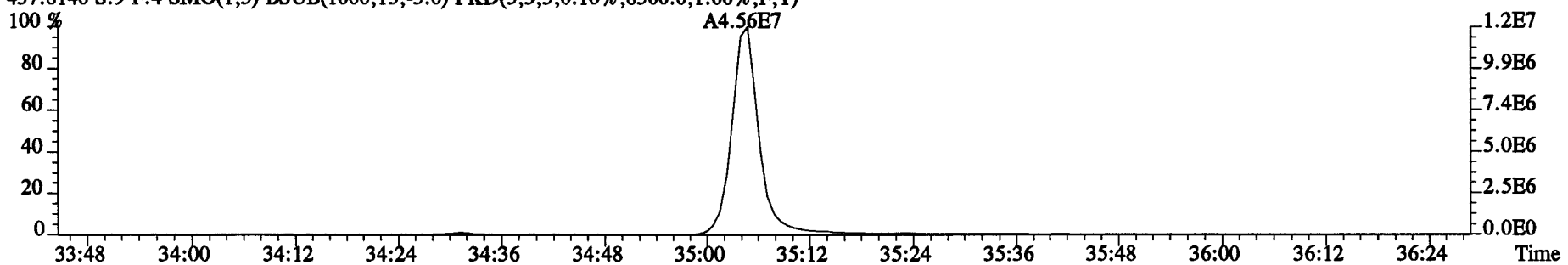
425.7737 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,868.0,1.00%,F,T)



435.8169 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6900.0,1.00%,F,T)

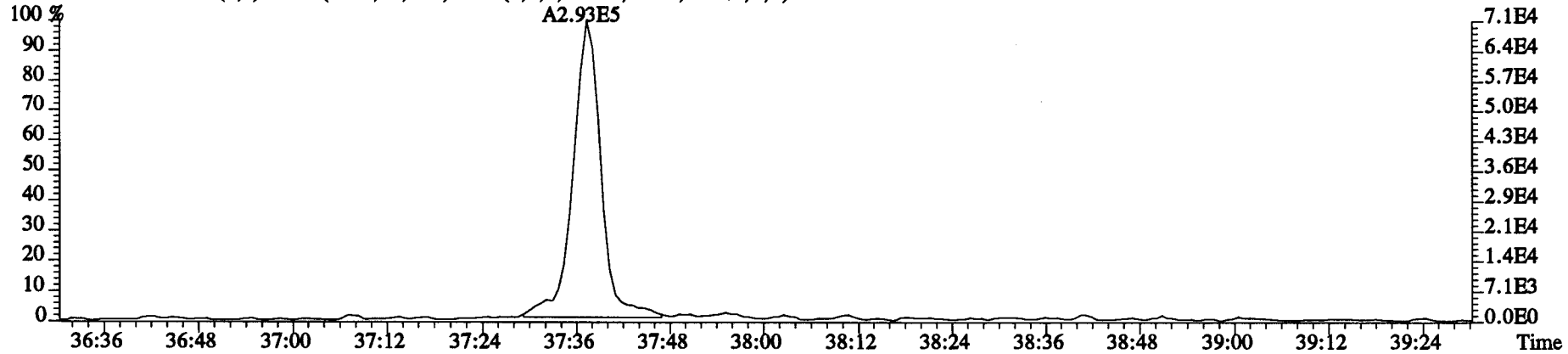


437.8140 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8300.0,1.00%,F,T)

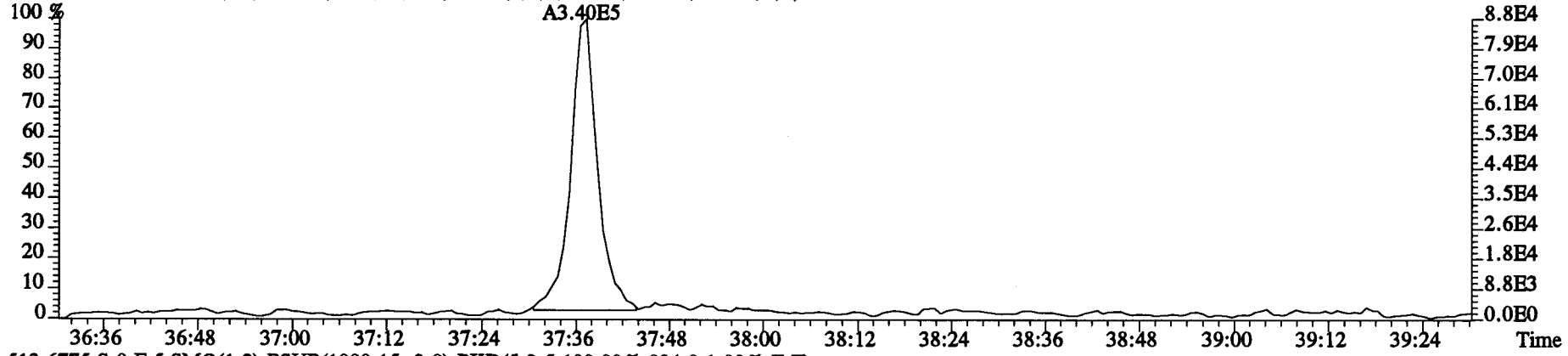


File:15DE109D5 #1-243 Acq:15-DEC-2010 15:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:MA8DJ-1-AA :G0L110441-5 Exp:DIOXINRES

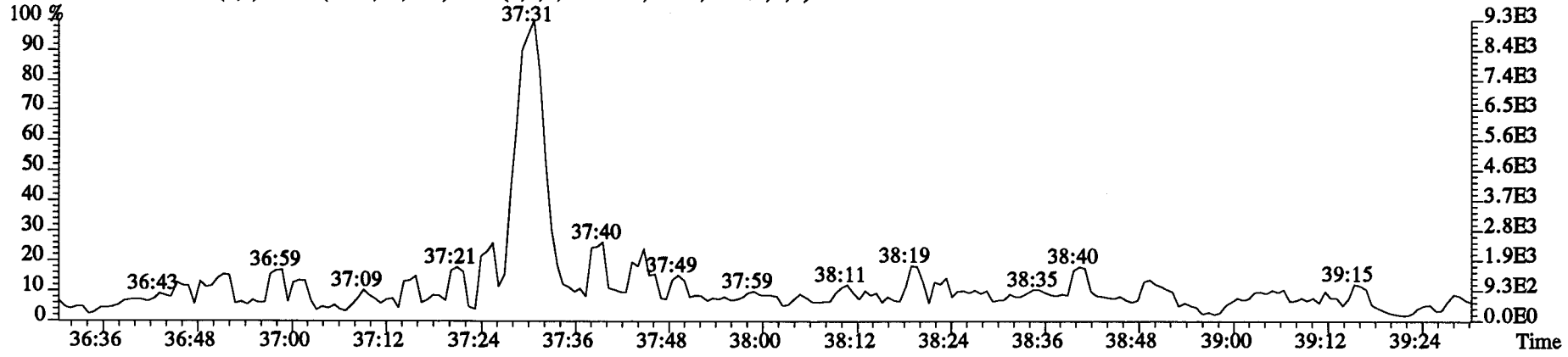
441.7428 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,928.0,1.00%,F,T)



443.7399 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2444.0,1.00%,F,T)

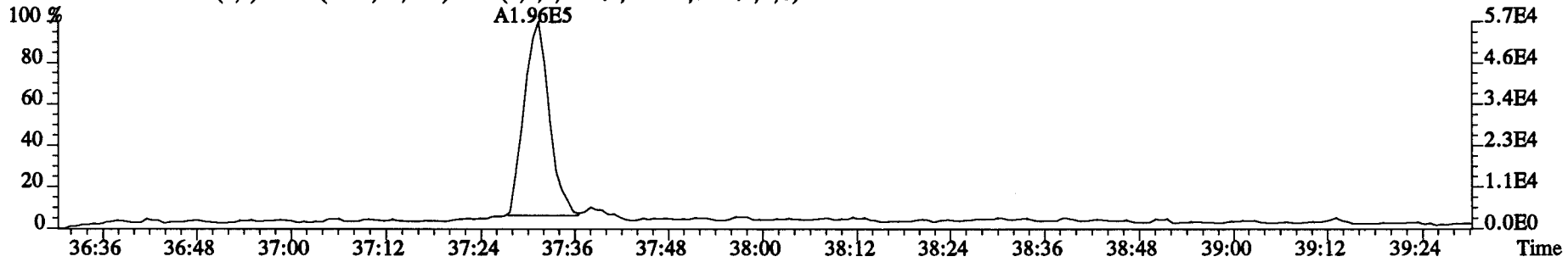


513.6775 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,924.0,1.00%,F,T)

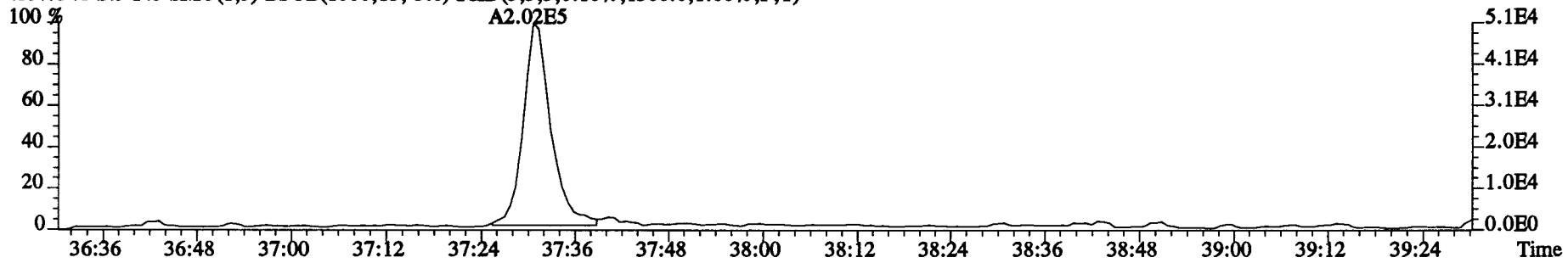


File:15DE109D5 #1-243 Acq:15-DEC-2010 15:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:MA8DJ-1-AA :G0L110441-5 Exp:DIOXINRES

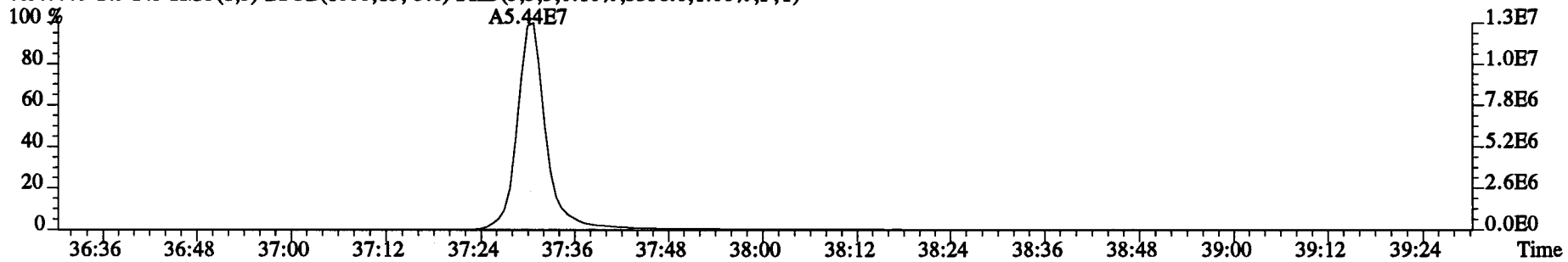
457.7377 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2864.0,1.00%,F,T)



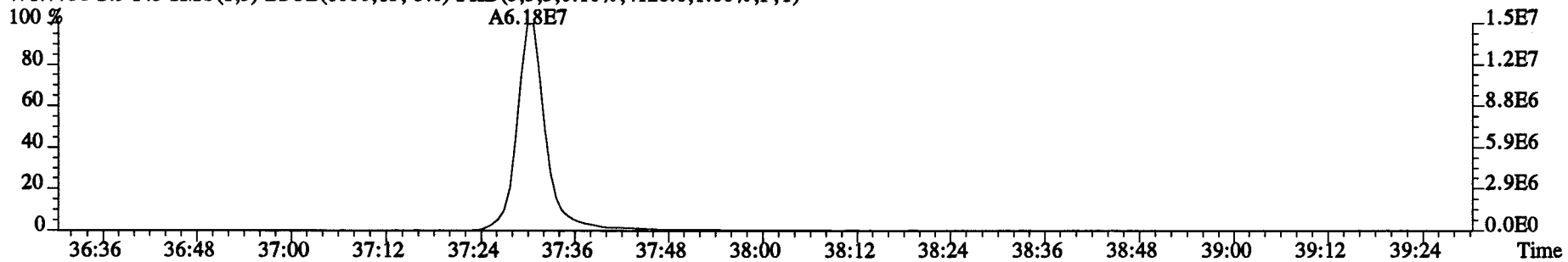
459.7348 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1300.0,1.00%,F,T)



469.7779 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3356.0,1.00%,F,T)

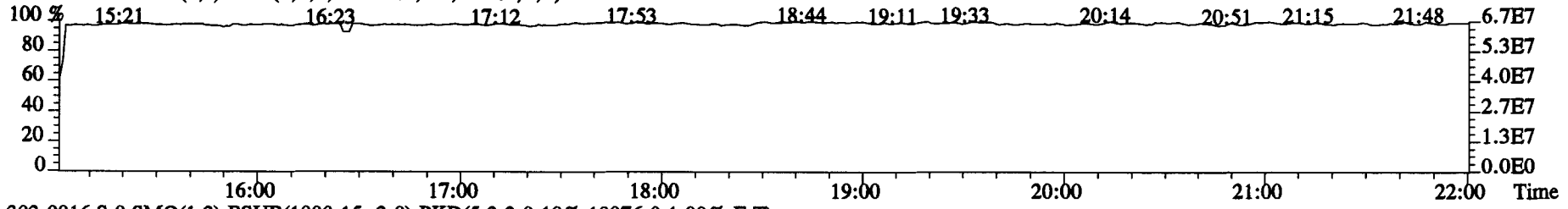


471.7750 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4128.0,1.00%,F,T)

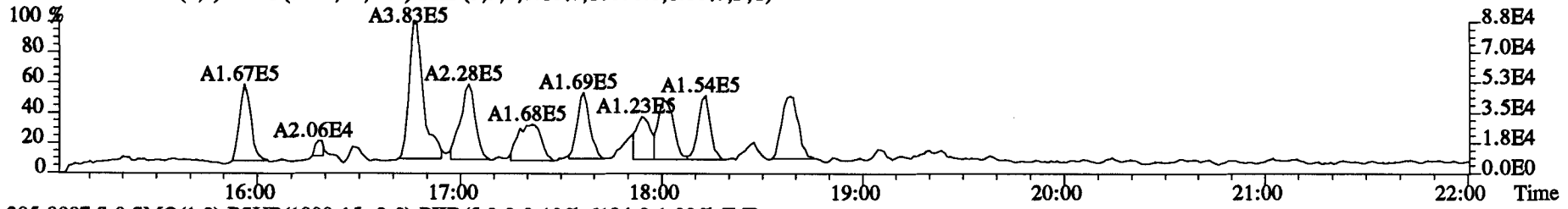


File:15DE109D5 #1-464 Acq:15-DEC-2010 15:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:MA8DJ-1-AA :G0L110441-5 Exp:DIOXINRES

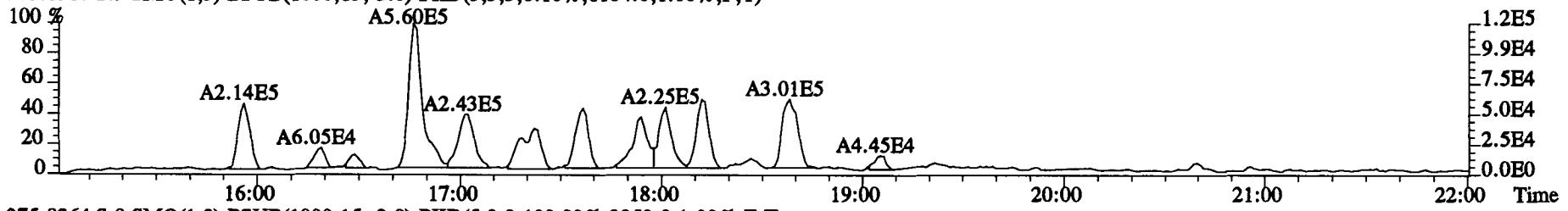
292.9825 S:9 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



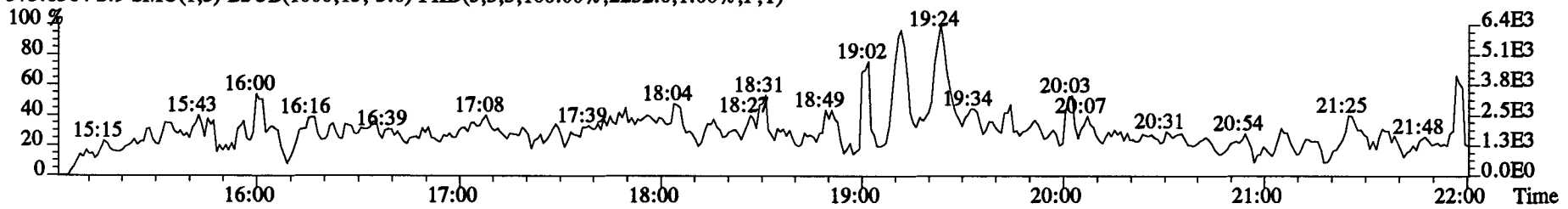
303.9016 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10076.0,1.00%,F,T)



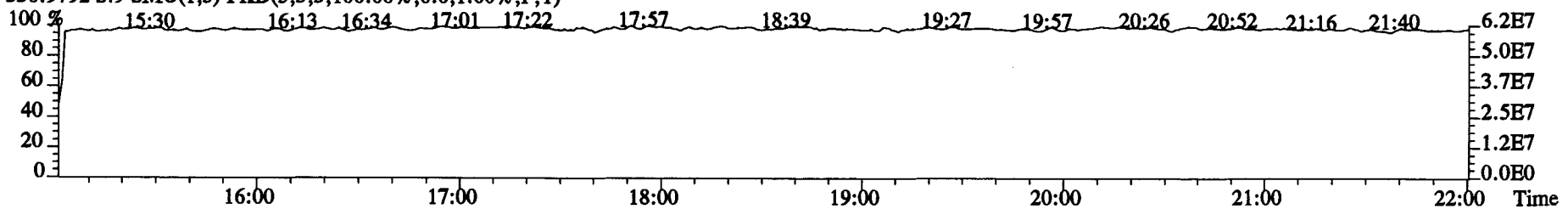
305.8987 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6184.0,1.00%,F,T)



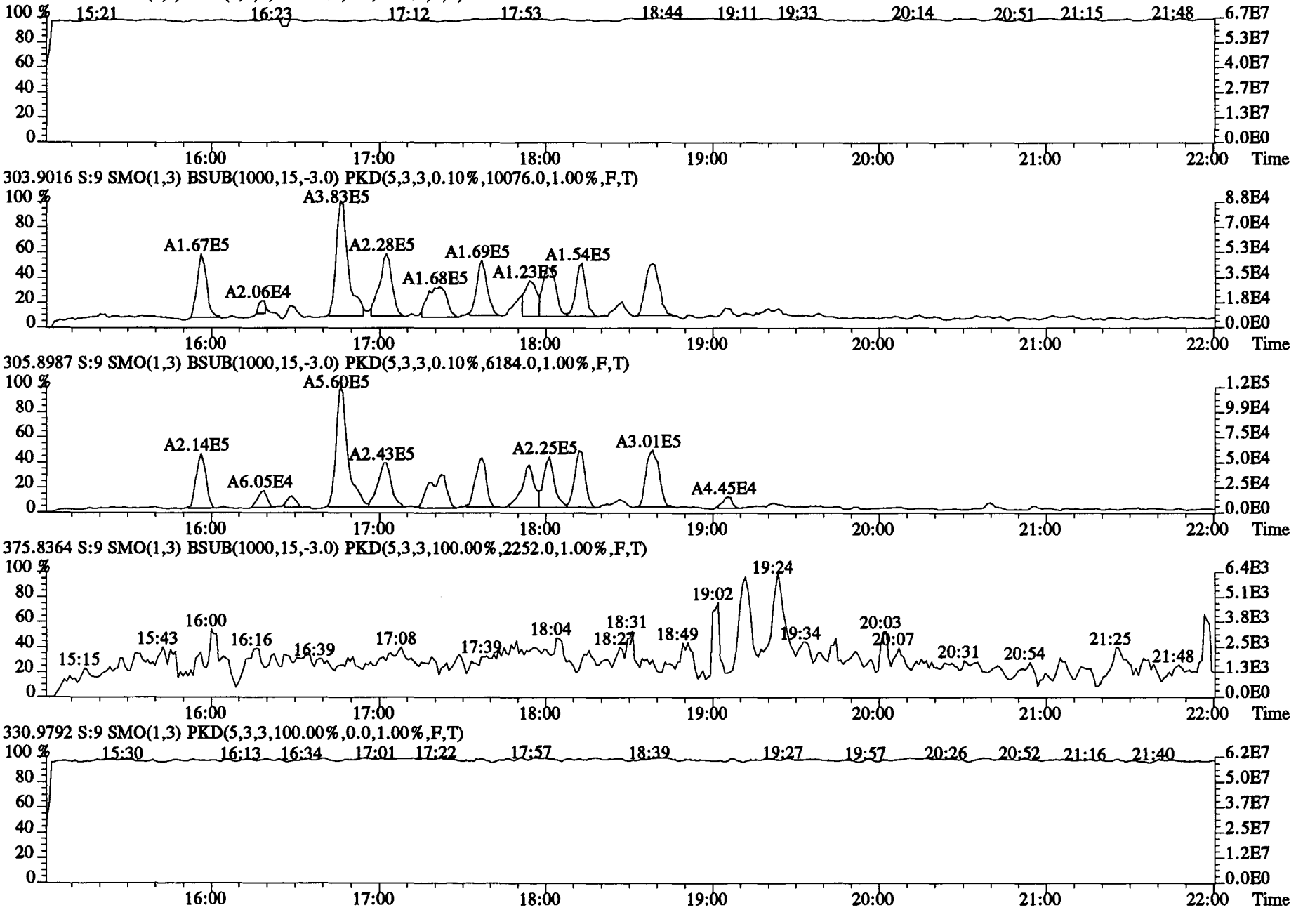
375.8364 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2252.0,1.00%,F,T)



330.9792 S:9 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

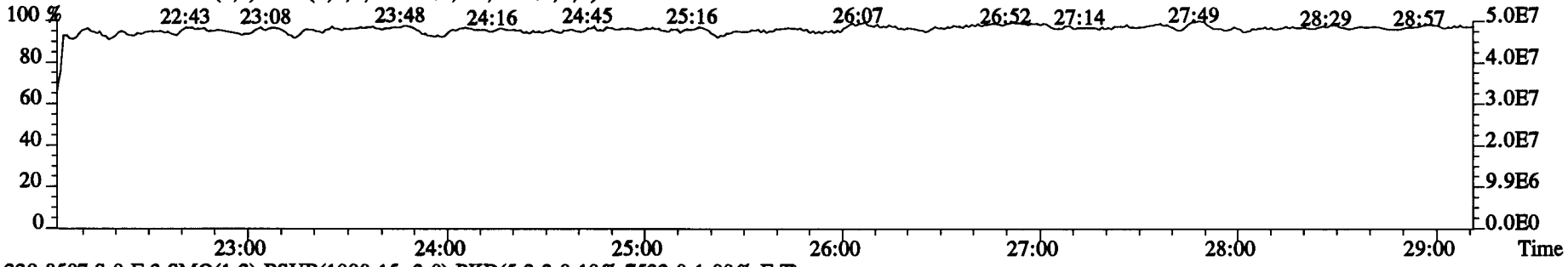


File:15DE109D5 #1-464 Acq:15-DEC-2010 15:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:MA8DJ-1-AA :G0L110441-5 Exp:DIOXINRES

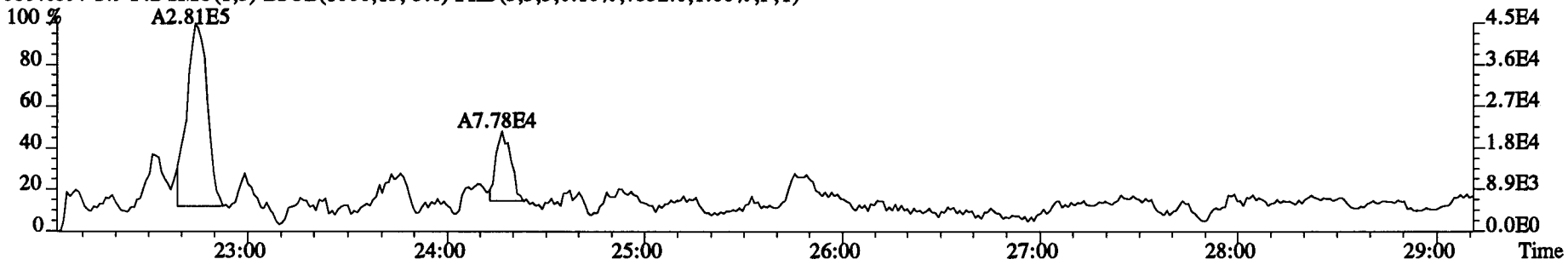


File:15DE109D5 #1-460 Acq:15-DEC-2010 15:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:MA8DJ-1-AA :G0L110441-5 Exp:DIOXINRES

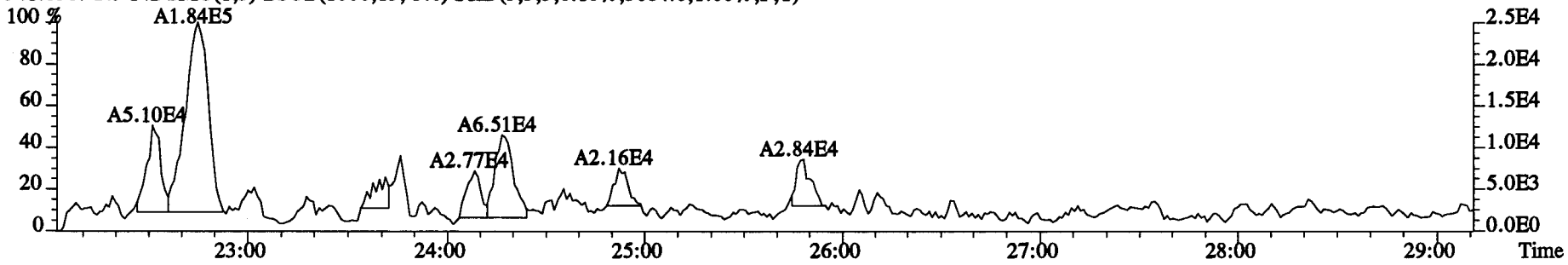
342.9792 S:9 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



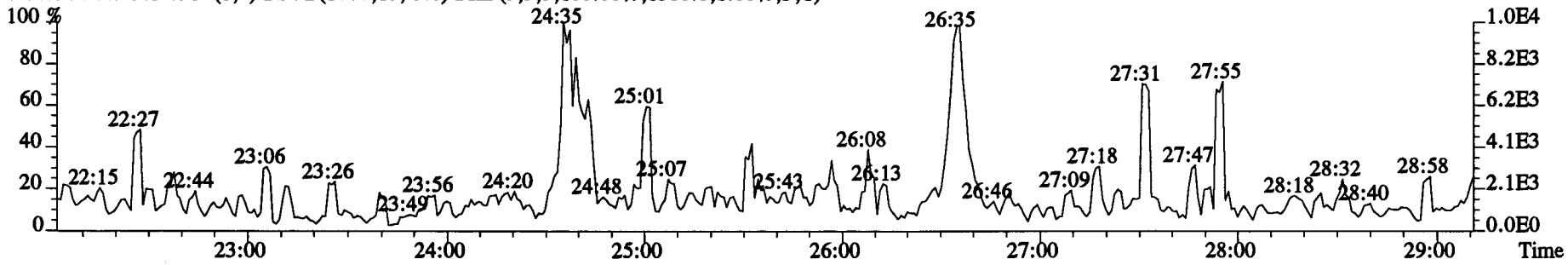
339.8597 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7532.0,1.00%,F,T)



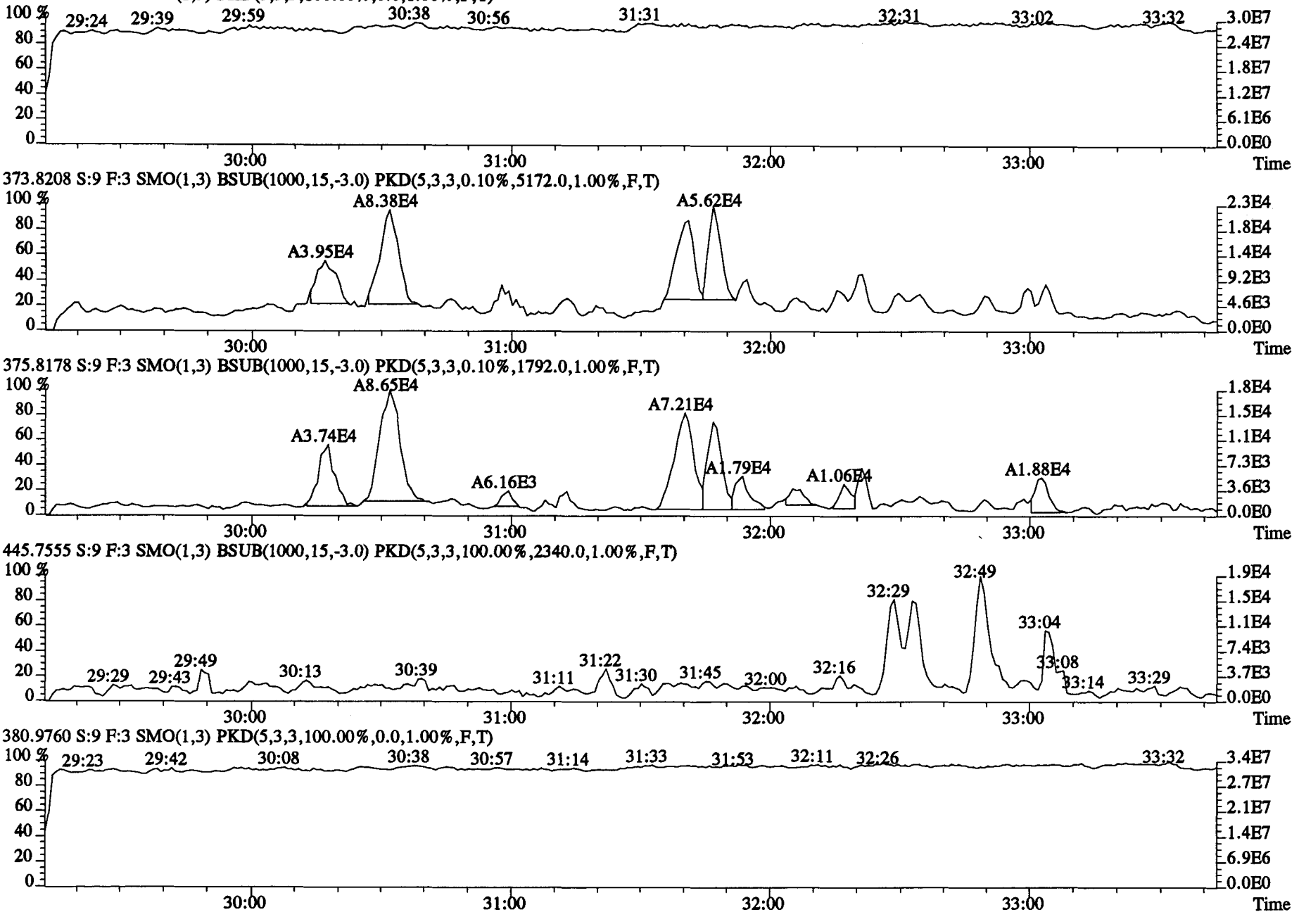
341.8567 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3084.0,1.00%,F,T)



409.7974 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1580.0,1.00%,F,T)

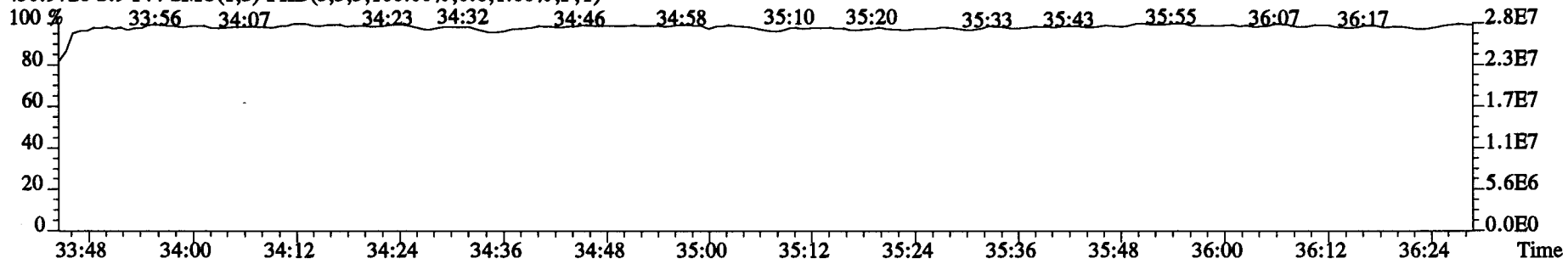


File:15DE109D5 #1-325 Acq:15-DEC-2010 15:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:MA8DJ-1-AA :G0L110441-5 Exp:DIOXINRES

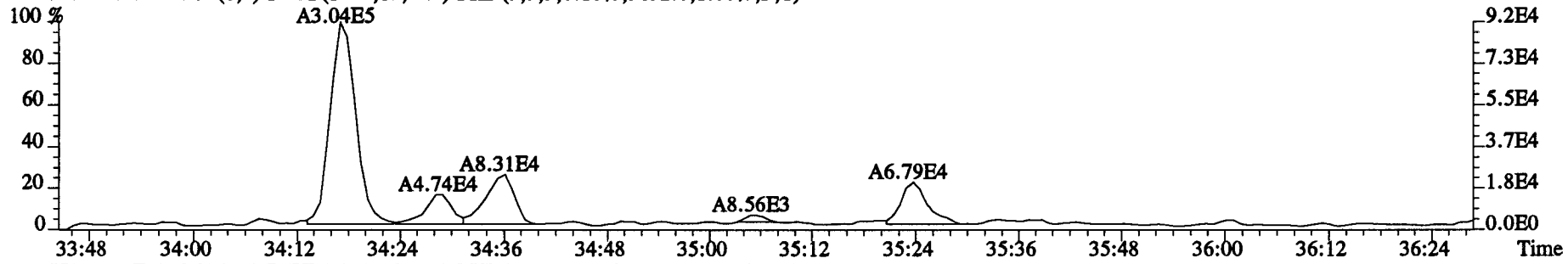


File:15DE109D5 #1-208 Acq:15-DEC-2010 15:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:MA8DJ-1-AA :G0L110441-5 Exp:DIOXINRES

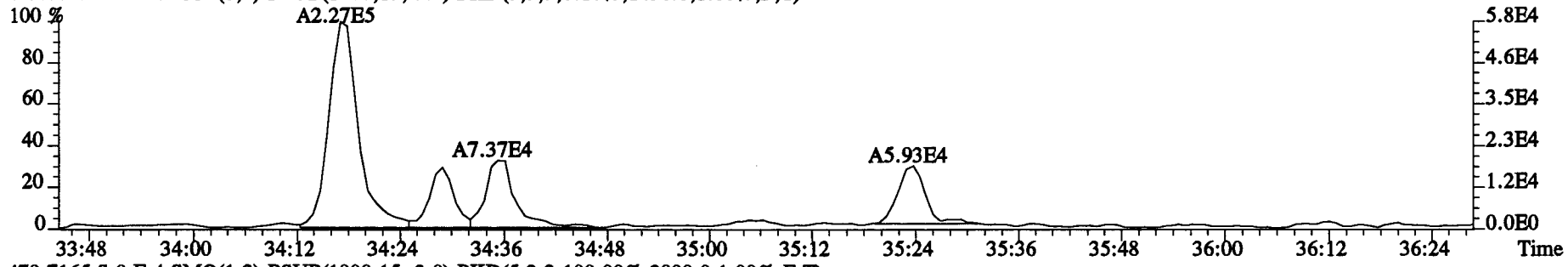
430.9728 S:9 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



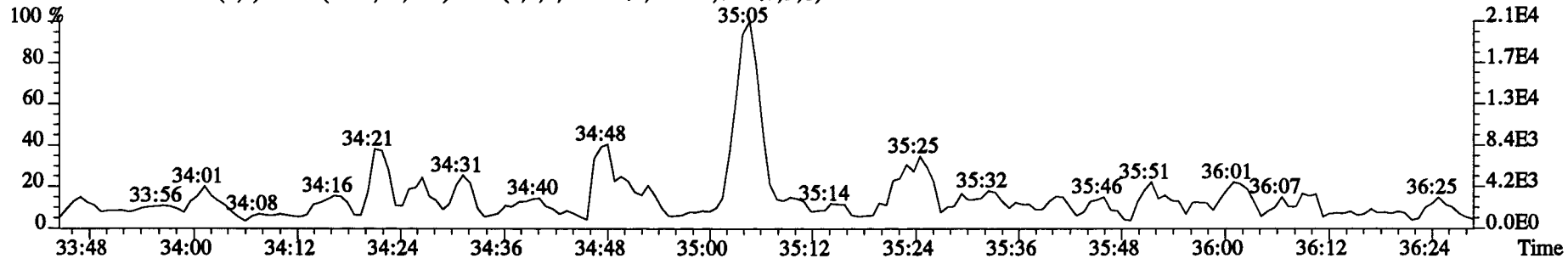
407.7818 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3632.0,1.00%,F,T)



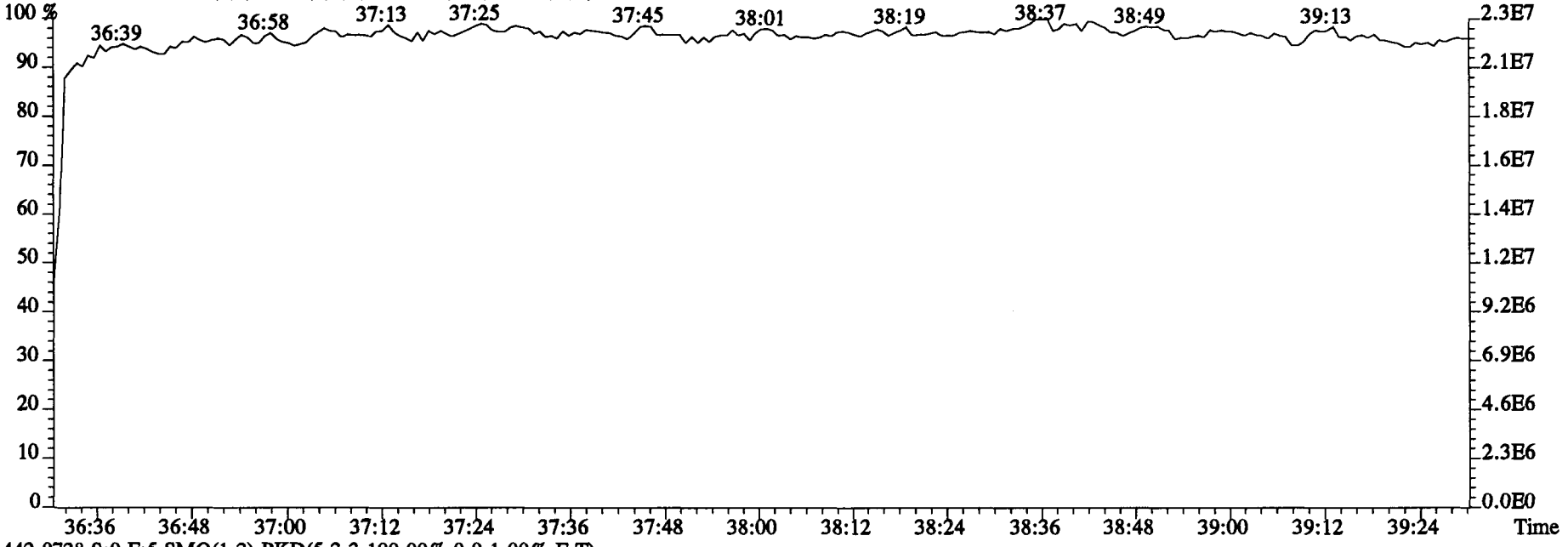
409.7789 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1436.0,1.00%,F,T)



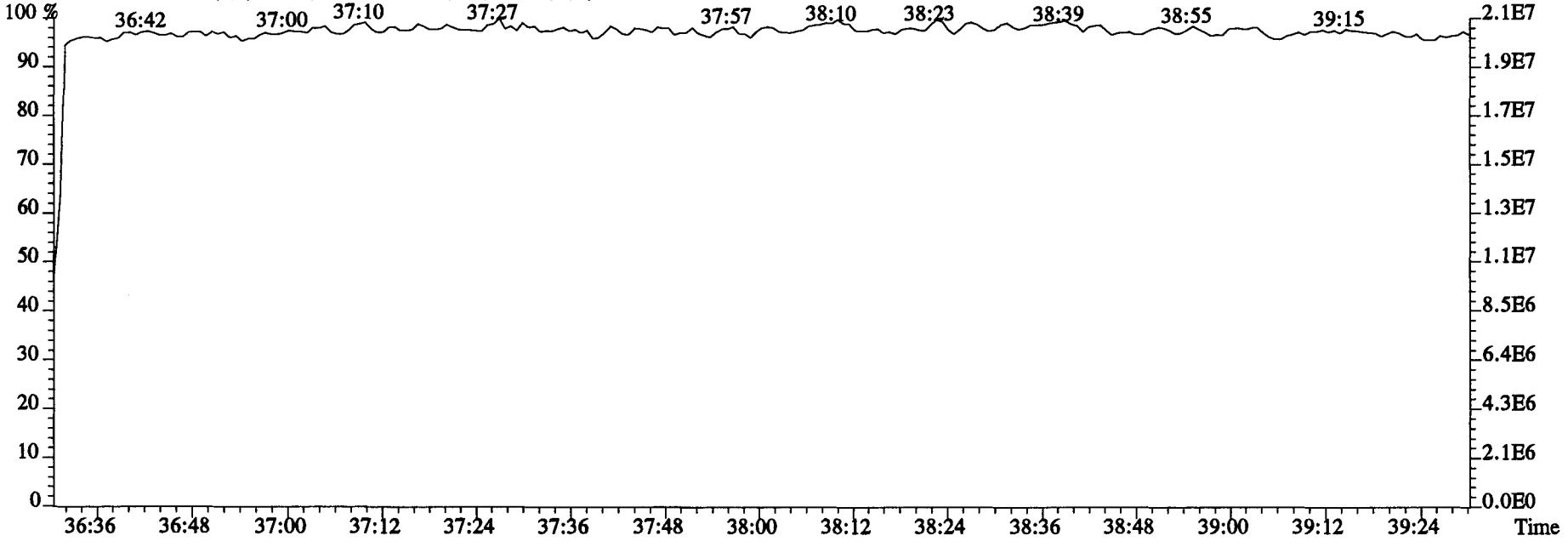
479.7165 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2800.0,1.00%,F,T)



File:15DE109D5 #1-243 Acq:15-DEC-2010 15:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:MA8DJ-1-AA :G0L110441-5 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)



Run text: MA8DM-1-AA Sample text: MA8DM-1-AA :G0L110441-8
Run #10 Filename: 15DE109D5 S: 10 I: 1 Results: 15DE109D5TO9SY
Acquired: 15-DEC-10 16:26:56 Processed: 16-DEC-10 10:00:59
Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.50 SAMP

12/16/10

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	123220700	0.74	y	19:12	-	156.17	-	-	n
13C-2,3,7,8-TCDF	123831900	0.79	y	18:37	1.11	3608.58	2.32	90.2	n
2,3,7,8-TCDF	371394	0.80	y	18:38	0.88	J 13.59	6.78	-	n
Total TCDF	952862	0.47	n	16:47	0.88	~~34.86~~ 13.588	6.78	-	n
13C-2,3,7,8-TCDD	112579100	0.75	y	19:24	0.97	3759.91	9.07	94.0	n
2,3,7,8-TCDD	*	*	n	NotFnd	0.87	*	2.44	-	n
Total TCDD	132819	0.85	y	17:15	0.87	~~5.41~~ 2.672	2.44	-	n
37Cl-2,3,7,8-TCDD	52856400	1.00	y	19:26	1.22	1534.83	1.68	95.9	n
13C-1,2,3,7,8-PeCDF	101252800	1.51	y	24:16	0.92	3568.75	5.58	89.2	n
1,2,3,7,8-PeCDF	80552	0.70	n	24:17	1.06	~~2.99~~	9.76	-	n
2,3,4,7,8-PeCDF	*	*	n	NotFnd	1.03	*	10.11	-	n
Total F2 PeCDF	481576	1.41	y	22:46	1.05	~~18.13~~	9.93	-	n
Total F1 PeCDF	242171	2.20	n	19:12	1.05	~~9.15~~ 15.145	~~4.42~~	-	n
13C-1,2,3,7,8-PeCDD	93614400	1.47	y	26:36	0.83	3664.01	2.71	91.6	n
1,2,3,7,8-PeCDD	*	*	n	NotFnd	0.79	*	4.94	-	n
Total PeCDD	123988	1.22	n	22:59	0.79	~~6.68~~	4.94	-	n
13C-1,2,3,7,8,9-HxCDD	75719300	1.33	y	32:49	-	147.56	-	-	n
13C-1,2,3,4,7,8-HxCDF	76155900	0.49	y	31:40	1.07	3752.33	3.31	93.8	n
1,2,3,4,7,8-HxCDF	301045	1.14	y	31:41	1.06	J 14.88	3.65	-	n
1,2,3,6,7,8-HxCDF	201539	1.22	y	31:49	1.12	J 9.44	3.46	-	n
2,3,4,6,7,8-HxCDF	59940	1.05	n	32:21	1.05	~~3.00~~	3.70	-	y
1,2,3,7,8,9-HxCDF	33523	0.83	n	32:59	0.95	~~1.85~~	4.07	-	y
Total HxCDF	1047889	1.26	y	30:18	1.05	~~51.85~~ 43.42	3.70	-	y
13C-1,2,3,6,7,8-HxCDD	66536400	1.32	y	32:34	0.89	3957.94	6.18	98.9	n
1,2,3,4,7,8-HxCDD	24330	1.10	y	32:30	1.11	~~1.31~~	1.78	-	n
1,2,3,6,7,8-HxCDD	27464	0.90	n	32:34	1.16	~~1.43~~	1.71	-	n
1,2,3,7,8,9-HxCDD	18746	3.04	n	32:49	1.20	~~0.94~~	1.65	-	n
Total HxCDD	306789	1.62	n	31:41	1.16	~~15.94~~ 12/17/10 3.05 12.27	1.71	-	y
13C-1,2,3,4,6,7,8-HpCDF	76800500	0.44	y	34:18	0.95	4279.29	14.44	107.0	n
1,2,3,4,6,7,8-HpCDF	1001772	1.18	y	34:18	1.44	J 36.35	1.89	-	n
1,2,3,4,7,8,9-HpCDF	285613	1.02	y	35:25	1.23	J 12.13	2.21	-	n
Total HpCDF	1775037	1.18	y	34:18	1.33	67.56	2.04	-	n
13C-1,2,3,4,6,7,8-HpCDD	87851000	0.99	y	35:05	1.08	4315.73	6.20	107.9	n
1,2,3,4,6,7,8-HpCDD	181799	1.06	y	35:05	0.90	J 9.25	1.03	-	n
Total HpCDD	436472	3.26	n	34:18	0.90	~~22.20~~ 18.552	1.03	-	n
13C-OCDD	107680600	0.86	y	37:31	0.69	8245.87	9.60	103.1	n
OCDF	1200771	0.85	y	37:38	1.18	J 75.60	2.63	-	n

OCDD	396859	1.01	y	37:31	1.14	J	25.90	/	3.21	- y

Run text: MA8DM-1-AA Sample text: MA8DM-1-AA :G0L110441-8
Run #10 Filename: 15DE109D5 S: 10 I: 1 Results: 15DE109D5TO9
Acquired: 15-DEC-10 16:26:56 Processed: 16-DEC-10 10:00:59
Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5
Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	123220700	0.74	y	19:12	-	156.175	-	-	n
13C-2,3,7,8-TCDF	123831900	0.79	y	18:37	1.11	3608.582	2.321	90.2	n
2,3,7,8-TCDF	371394	0.80	y	18:38	0.88	13.588	6.783	-	n
Total TCDF	952862	0.47	n	16:47	0.88	~~34.861~~ 13.588	6.783	-	n
13C-2,3,7,8-TCDD	112579100	0.75	y	19:24	0.97	3759.912	9.070	94.0	n
2,3,7,8-TCDD	*	*	n	NotFnd	0.87	*	2.441	-	n
Total TCDD	132819	0.85	y	17:15	0.87	~~5.415~~ 2.672	2.441	-	n
37Cl-2,3,7,8-TCDD	52856400	1.00	y	19:26	1.22	1534.832	1.681	95.9	n
13C-1,2,3,7,8-PeCDF	101252800	1.51	y	24:16	0.92	3568.748	5.576	89.2	n
1,2,3,7,8-PeCDF	80552	0.70	n	24:17	1.06	~~8.989~~	9.757	-	n
2,3,4,7,8-PeCDF	*	*	n	NotFnd	1.03	*	10.109	-	n
Total F2 PeCDF	481576	1.41	y	22:46	1.05	~~18.134~~	9.930	-	n
Total F1 PeCDF	242171	2.20	n	19:12	1.05	~~9.146~~ 15145	~~4.421~~	-	n
13C-1,2,3,7,8-PeCDD	93614400	1.47	y	26:36	0.83	3664.006	2.710	91.6	n
1,2,3,7,8-PeCDD	*	*	n	NotFnd	0.79	*	4.943	-	n
Total PeCDD	123988	1.22	n	22:59	0.79	~~6.680~~	4.943	-	n
13C-1,2,3,7,8,9-HxCDD	75719300	1.33	y	32:49	-	147.559	-	-	n
13C-1,2,3,4,7,8-HxCDF	76155900	0.49	y	31:40	1.07	3752.334	3.310	93.8	n
1,2,3,4,7,8-HxCDF	301045	1.14	y	31:41	1.06	14.878	3.646	-	n
1,2,3,6,7,8-HxCDF	201539	1.22	y	31:49	1.12	9.438	3.455	-	n
2,3,4,6,7,8-HxCDF	59940	0.62	n	32:21	1.05	3.004	3.697	-	n
1,2,3,7,8,9-HxCDF	33079	0.43	n	32:59	0.95	1.824	4.068	-	n
Total HxCDF	1164394	1.26	y	30:18	1.05	57.697	3.704	-	n
13C-1,2,3,6,7,8-HxCDD	66536400	1.32	y	32:34	0.89	3957.936	6.184	98.9	n
1,2,3,4,7,8-HxCDD	24330	1.10	y	32:30	1.11	1.313	1.780	-	n
1,2,3,6,7,8-HxCDD	27464	0.90	n	32:34	1.16	1.424	1.710	-	n
1,2,3,7,8,9-HxCDD	18746	3.04	n	32:49	1.20	0.938	1.649	-	n
Total HxCDD	353828	1.59	n	31:07	1.16	18.380	1.711	-	n
13C-1,2,3,4,6,7,8-HpCDF	76800500	0.44	y	34:18	0.95	4279.291	14.441	107.0	n
1,2,3,4,6,7,8-HpCDF	1001772	1.18	y	34:18	1.44	36.353	1.890	-	n
1,2,3,4,7,8,9-HpCDF	285613	1.02	y	35:25	1.23	12.127	2.211	-	n
Total HpCDF	1775037	1.18	y	34:18	1.33	67.563	2.038	-	n
13C-1,2,3,4,6,7,8-HpCDD	87851000	0.99	y	35:05	1.08	4315.728	6.204	107.9	n
1,2,3,4,6,7,8-HpCDD	181799	1.06	y	35:05	0.90	J 9.246	1.033	-	n
Total HpCDD	436472	3.26	n	34:18	0.90	~~22.197~~ 18.552	1.033	-	n
13C-OCDD	107680600	0.86	y	37:31	0.69	8245.872	9.595	103.1	n
OCDF	1200771	0.85	y	37:38	1.18	75.601	2.631	-	n
OCDD	366817	1.04	n	37:31	1.14	23.936	3.205	-	n

Run Text: MA8DM-1-AA Sample text: MA8DM-1-AA :G0L110441-8

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:5
Run: 10 File: 15DE109D5 S:10 Acq:15-DEC-10 16:26:56
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	17.430 of which	6.794 named and	10.637	unnamed
Conc:	34.861 of which	13.588 named and	21.273	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	16:47	0.468	n	6.469	76923	2.488	n	n
						164432	7.843	y	n
	2	17:36	0.702	y	5.511	62130	1.678	n	n
						88510	4.747	y	n
	3	17:54	0.474	n	3.444	40947	1.690	n	n
						86442	3.309	y	n
	4	18:13	0.513	n	5.849	69554	2.158	n	n
						135545	5.725	y	n
2,3,7,8-TCDF	5	18:38	0.795	y	13.588	164541	3.814	y	n
						206853	8.982	y	n

Run Text: MA8DM-1-AA Sample text: MA8DM-1-AA :G0L110441-8

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:3
Run: 10 File: 15DE109D5 S:10 Acq:15-DEC-10 16:26:56
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	2.707 of which	* named and	2.707	unnamed
Conc:	5.415 of which	* named and	5.415	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	17:15	0.848	y	2.672 ✓	30064	3.699	y	n
						35468	4.203	y	n
	2	18:10	0.381	n	0.659	7030	1.289	n	n
						18448	1.645	n	n
	3	18:37	3.067	n	2.084	88598	8.797	y	n
						28886	2.718	n	n

Run Text: MA8DM-1-AA Sample text: MA8DM-1-AA :G0L110441-8

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:2
Run: 10 File: 15DE109D5 S:10 Acq:15-DEC-10 16:26:56
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	9.067 of which	1.495 named and	7.572	unnamed
Conc:	18.134 of which	2.989 named and	15.145	unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	22:46	1.406 y	15.145 ✓	234317	3.734	y	n
					166707	5.552	y	n
1,2,3,7,8-PeCDF	2	24:17	0.702 n	2.989	48963	1.132	n	n
					69797	3.216	y	n

Run Text: MA8DM-1-AA Sample text: MA8DM-1-AA :G0L110441-8

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:3
Run: 10 File: 15DE109D5 S:10 Acq:15-DEC-10 16:26:56
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	4.573 of which	* named and	4.573	unnamed
Conc:	9.146 of which	* named and	9.146	unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	19:12	2.205 n	3.329	76226	4.822	y	n
					34572	2.765	n	n
	2	19:24	2.404 n	2.860	71377	4.667	y	n
					29697	2.658	n	n
	3	21:01	2.173 n	2.957	66700	4.454	y	n
					30701	2.522	n	n

Run Text: MA8DM-1-AA Sample text: MA8DM-1-AA :G0L110441-8

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:3
Run: 10 File: 15DE109D5 S:10 Acq:15-DEC-10 16:26:56
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	3.340 of which	* named and	3.340	unnamed
Conc:	6.680 of which	* named and	6.680	unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	22:59	1.221 n	0.967	10907	1.349	n	n
					8929	1.579	n	n
	2	24:17	2.033 n	4.400	65118	4.018	y	n
					32024	3.133	y	n
	3	24:58	2.225 n	1.314	21277	1.459	n	n
					9562	1.794	n	n

Run Text: MA8DM-1-AA Sample text: MA8DM-1-AA :G0L110441-8

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:10
Run: 10 File: 15DE109D5 S:10 Acq:15-DEC-10 16:26:56
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	28.849 of which	14.572 named and	14.277	unnamed
Conc:	57.697 of which	29.144 named and	28.554	unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	30:18	1.259 y	6.967	77346	3.314	y	n
					61429	5.625	y	n
	2	30:33	0.978 n	12.136	133829	5.928	y	n
					136905	13.576	y	n
	3	31:13	2.707 n	0.998	24033	1.454	n	n
					8878	1.339	n	n
1,2,3,4,7,8-HxCDF	4	31:41	1.138 y	14.878	160225	7.656	y	n
					140820	15.626	y	n
1,2,3,6,7,8-HxCDF	5	31:49	1.216 y	9.438	110590	5.926	y	n
					90949	12.616	y	n
	6	31:55	1.009 n	2.721	30001	1.980	n	n
					29741	3.208	y	n
	7	32:06	1.602 n	3.580	50985	2.238	n	n
					31836	3.411	y	n
	8	32:17	0.441 n	2.152	23730	2.121	n	n

See P6A

Run Text: MA8DM-1-AA Sample text: MA8DM-1-AA :G0L110441-8

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? yes #Hom:7
Run: 10 File: 15DE109D5 S:10 Acq:15-DEC-10 16:26:56
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	25.93	of which	14.58	named and	11.34	unnamed				
Conc:	51.85	of which	29.17	named and	22.68	unnamed				

Name	#	R.T.	Ratio		Conc.		Area	S/N	>?	Mod?
	1	30:18	1.26	y	6.97	✓	77345	3.3	y	n
							61429	5.6	y	n
	2	30:33	0.98	n	12.14	✓	133829	5.9	y	n
							136904	13.6	y	n
1,2,3,4,7,8-HxCDF	3	31:41	1.14	y	14.88	✓	160225	7.7	y	n
							140820	15.6	y	n
1,2,3,6,7,8-HxCDF	4	31:49	1.22	y	9.44	✓	110590	5.9	y	n
							90949	12.6	y	n
	5	32:06	1.60	n	3.58	✓	50985	2.2	n	n
							31836	3.4	y	n
2,3,4,6,7,8-HxCDF	6	32:21	1.05	n	3.00	✓	33181	2.0	n	n
							31578	5.3	y	y
1,2,3,7,8,9-HxCDF	7	32:59	0.83	n	1.85	✓	18557	1.6	n	y
							22277	3.5	y	y

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43,42

						53858	5.262	y	n
2,3,4,6,7,8-HxCDF	9	32:21	0.616	n	3.004	33181	2.037	n	n
						53858	5.262	y	n
1,2,3,7,8,9-HxCDF	10	32:59	0.434	n	1.824	18312	1.598	n	n
						42192	3.508	y	n

Run Text: MA8DM-1-AA Sample text: MA8DM-1-AA :G0L110441-8

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:9
Run: 10 File: 15DE109D5 S:10 Acq:15-DEC-10 16:26:56
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	9.190 of which	1.838 named and	7.352	unnamed
Conc:	18.380 of which	3.676 named and	14.704	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	31:07	1.595	n	0.902	12379	2.011	n	n
						7761	1.963	n	n
	2	31:41	1.619	n	5.548	77240	10.241	y	n
						47717	6.525	y	n
	3	31:47	3.281	n	1.822	51404	8.442	y	n
						15668	2.916	n	n
	4	31:57	1.161	y	3.046	31526	5.226	y	n
						27164	5.706	y	n
	5	32:20	4.070	n	1.847	64640	11.362	y	n
						15882	3.270	y	n
1,2,3,4,7,8-HxCDD	6	32:30	1.097	y	1.313	12725	2.470	n	n
						11605	2.637	n	n
1,2,3,6,7,8-HxCDD	7	32:34	0.901	n	1.424	15204	2.521	n	n
						16878	4.129	y	n
1,2,3,7,8,9-HxCDD	8	32:49	3.041	n	0.938	25446	4.216	y	n
						8369	1.787	n	n
	9	32:59	3.604	n	1.539	47707	10.166	y	n
						13238	2.794	n	n

See P7A

Run Text: MA8DM-1-AA Sample text: MA8DM-1-AA :G0L110441-8

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? yes #Hom:7
Run: 10 File: 15DE109D5 S:10 Acq:15-DEC-10 16:26:56
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	7.97	of which	1.84	named and	6.13	unnamed
Conc:	15.94	of which	3.68	named and	12.26	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
HxCDF IS Peaks ✓	1	31:41	1.62	n	5.55 ✓	77240	10.2	y	n
						47717	6.5	y	n
✓	2	31:47	3.28	n	1.82 ✓	51404	8.4	y	n
						15668	2.9	n	n
	3	31:57	1.16	y	3.05 ✓	31526	5.2	y	n
						27164	5.7	y	n
✓	4	32:20	4.07	n	1.85 ✓	64640	11.4	y	n
						15882	3.3	y	n
1,2,3,4,7,8-HxCDD	5	32:30	1.10	y	1.31	12725	2.5	n	n
						11605	2.6	n	n
1,2,3,6,7,8-HxCDD	6	32:34	0.90	n	1.42	15204	2.5	n	n
						16878	4.1	y	n
1,2,3,7,8,9-HxCDD	7	32:49	3.04	n	0.94	25446	4.2	y	n
						8369	1.8	n	n

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12.27

Run Text: MA8DM-1-AA Sample text: MA8DM-1-AA :G0L110441-8

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4
Run: 10 File: 15DE109D5 S:10 Acq:15-DEC-10 16:26:56
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	33.781 of which	24.240 named and	9.541	unnamed
Conc:	67.563 of which	48.480 named and	19.083	unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	34:18	1.185 y	36.353	543294	47.373	y	n
					458478	95.469	y	n
	2	34:30	1.098 y	7.923	105954	8.637	y	n
					96526	18.794	y	n
	3	34:36	0.977 y	11.159	140949	12.009	y	n
					144223	31.173	y	n
1,2,3,4,7,8,9-HpCDF	4	35:25	1.018 y	12.127	144073	10.590	y	n
					141540	27.951	y	n

Run Text: MA8DM-1-AA Sample text: MA8DM-1-AA :G0L110441-8

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:5
Run: 10 File: 15DE109D5 S:10 Acq:15-DEC-10 16:26:56
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

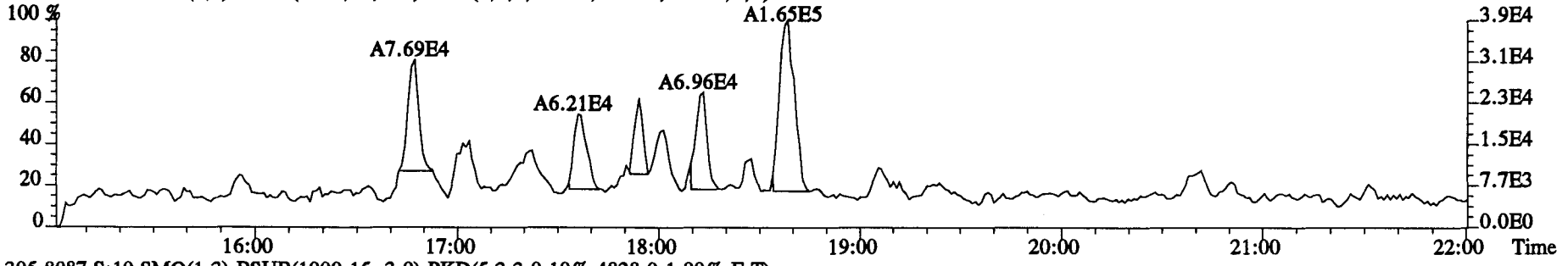
Amount:	11.099 of which	4.623 named and	6.476	unnamed
Conc:	22.197 of which	9.246 named and	12.952	unnamed

Name	#	R.T.	Ratio	Conc.		Area	S/N	>?	Mod?
	1	34:18	3.264 n	1.558		49014	12.963	y	n
						15019	6.936	y	n
	2	34:32	0.979 y	9.306	✓	90526	20.064	y	n
						92456	42.402	y	n
1,2,3,4,6,7,8-HpCDD	3	35:05	1.060 y	9.246	✓	93554	22.779	y	n
						88245	38.072	y	n
	4	35:12	1.536 n	0.336		4977	1.260	n	n
						3240	1.968	n	n
	5	35:24	2.202 n	1.752		37171	10.214	y	n
						16884	7.305	y	n

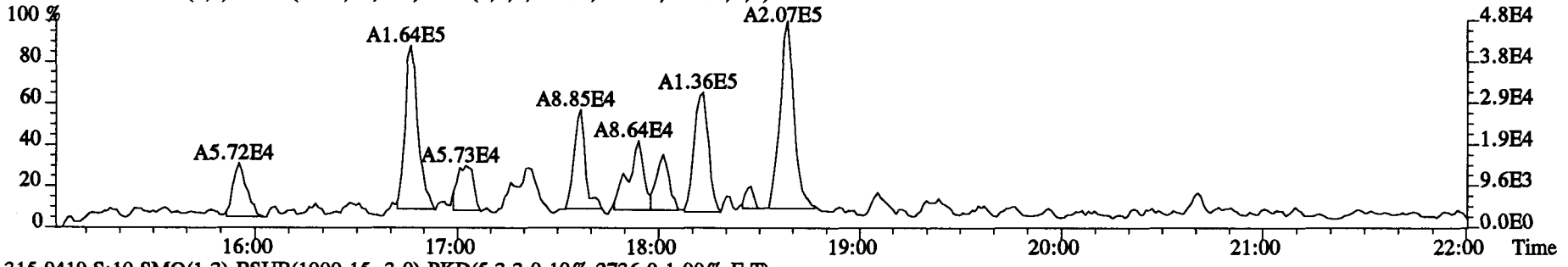
18.552

File:15DE109D5 #1-464 Acq:15-DEC-2010 16:26:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:MA8DM-1-AA :G0L110441-8 Exp:DIOXINRES

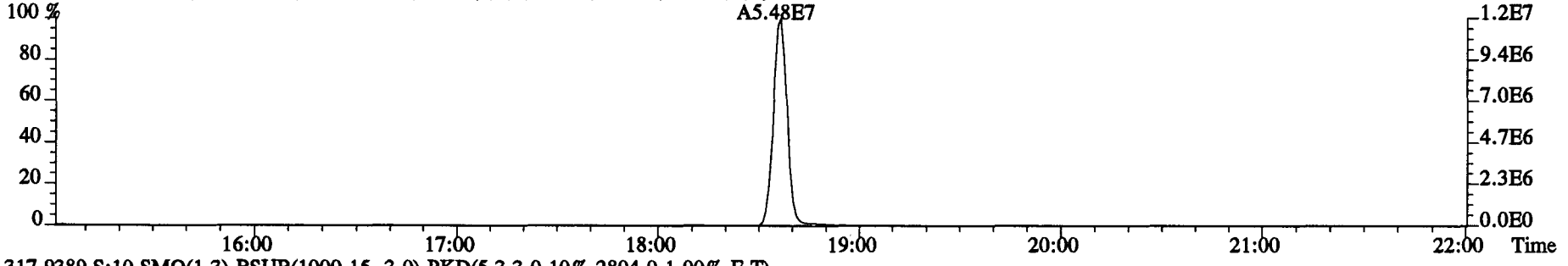
303.9016 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8380.0,1.00%,F,T)



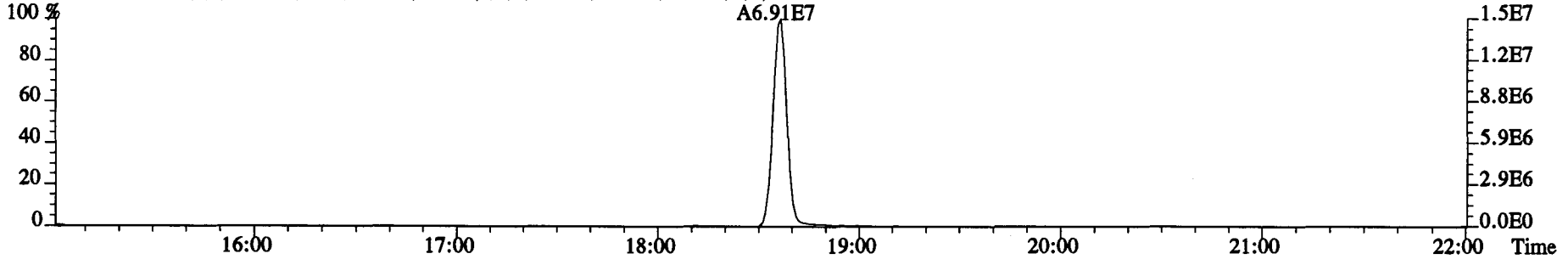
305.8987 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4828.0,1.00%,F,T)



315.9419 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2736.0,1.00%,F,T)

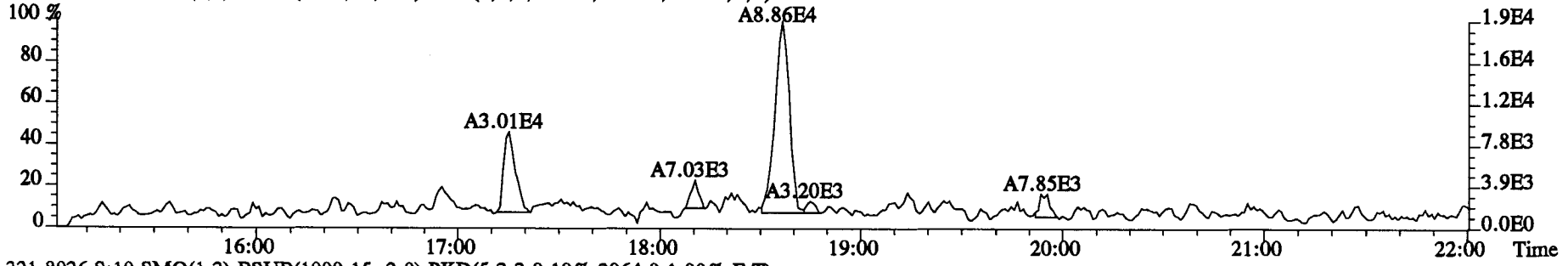


317.9389 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2804.0,1.00%,F,T)

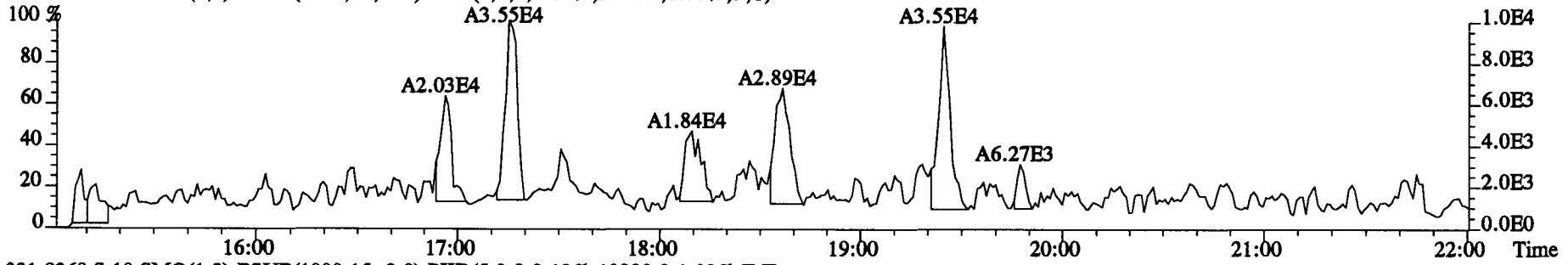


File:15DE109D5 #1-464 Acq:15-DEC-2010 16:26:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:MA8DM-1-AA :G0L110441-8 Exp:DIOXINRES

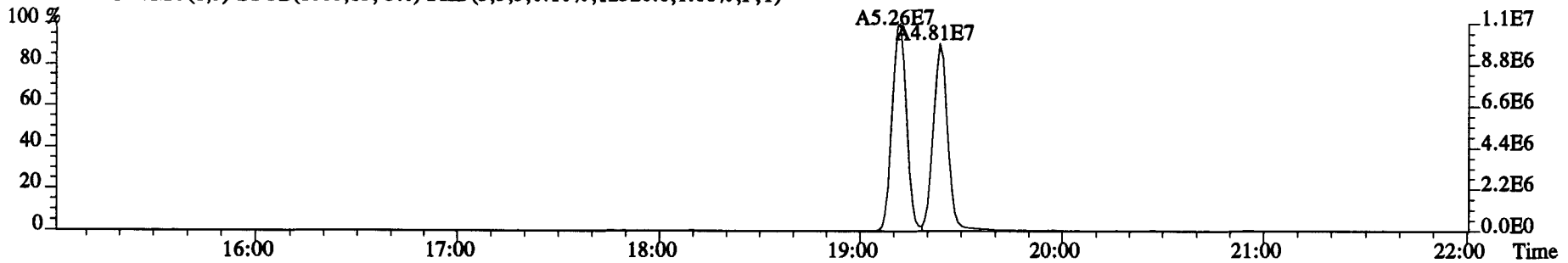
319.8965 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2048.0,1.00%,F,T)



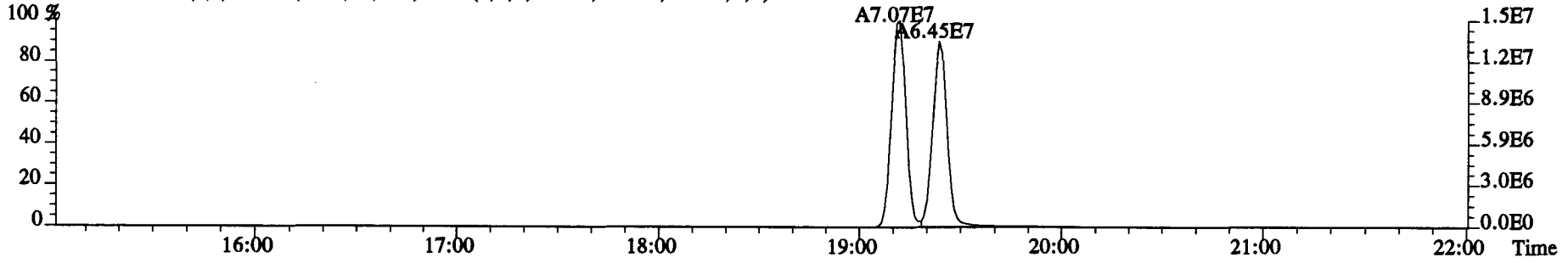
321.8936 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2064.0,1.00%,F,T)



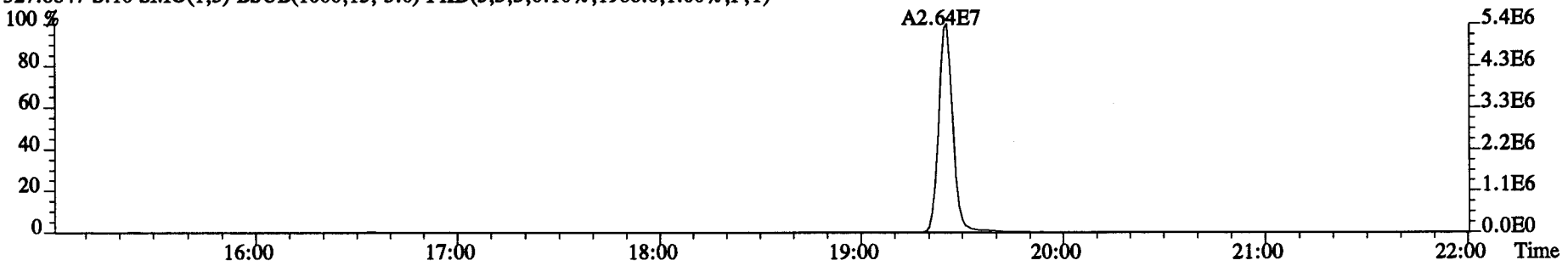
331.9368 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12320.0,1.00%,F,T)

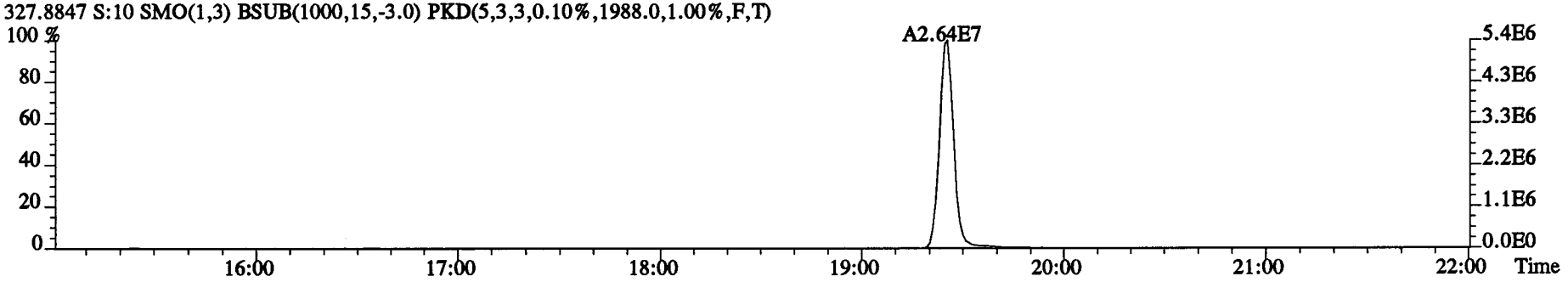


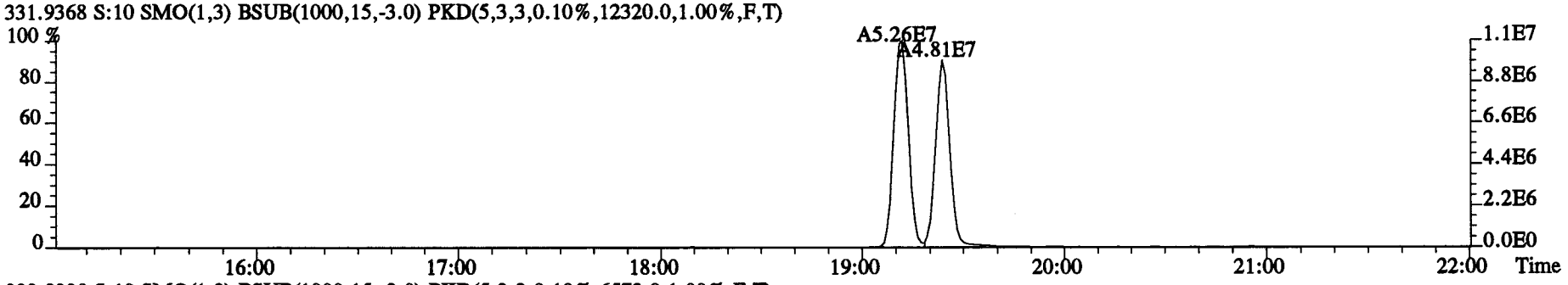
333.9339 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6572.0,1.00%,F,T)

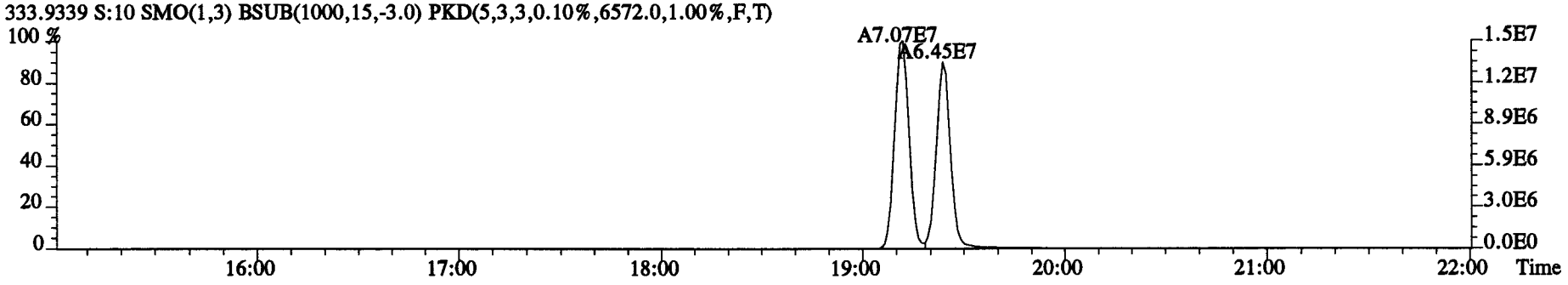


File:15DE109D5 #1-464 Acq:15-DEC-2010 16:26:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:MA8DM-1-AA :G0L110441-8 Exp:DIOXINRES



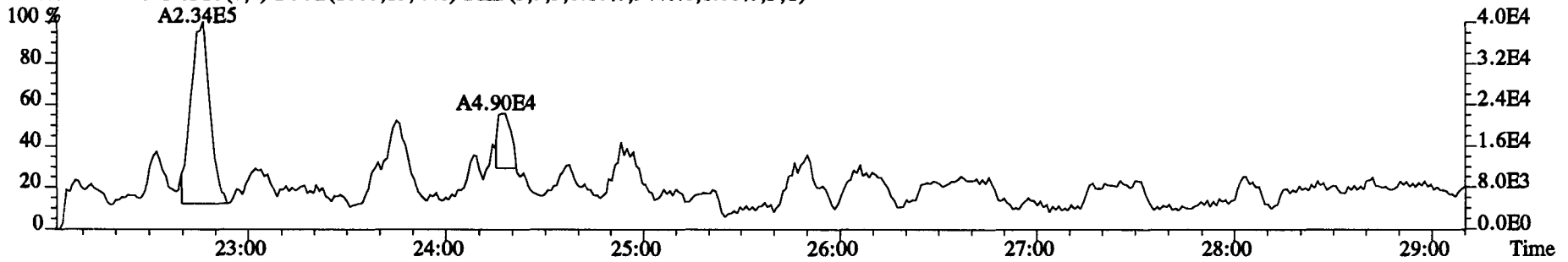




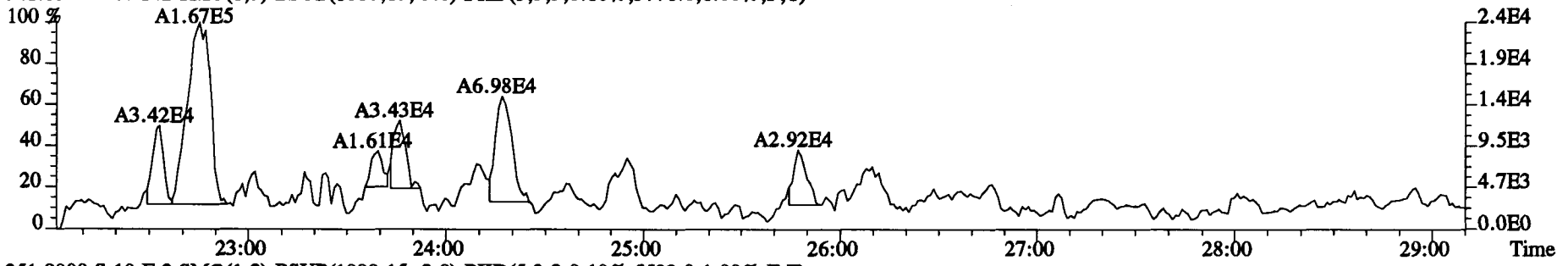


File:15DE109D5 #1-459 Acq:15-DEC-2010 16:26:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:MA8DM-1-AA :G0L110441-8 Exp:DIOXINRES

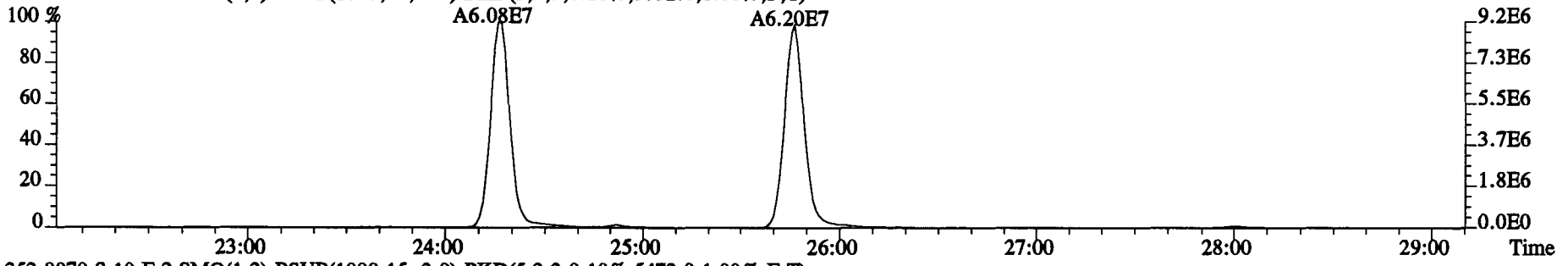
339.8597 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9440.0,1.00%,F,T)



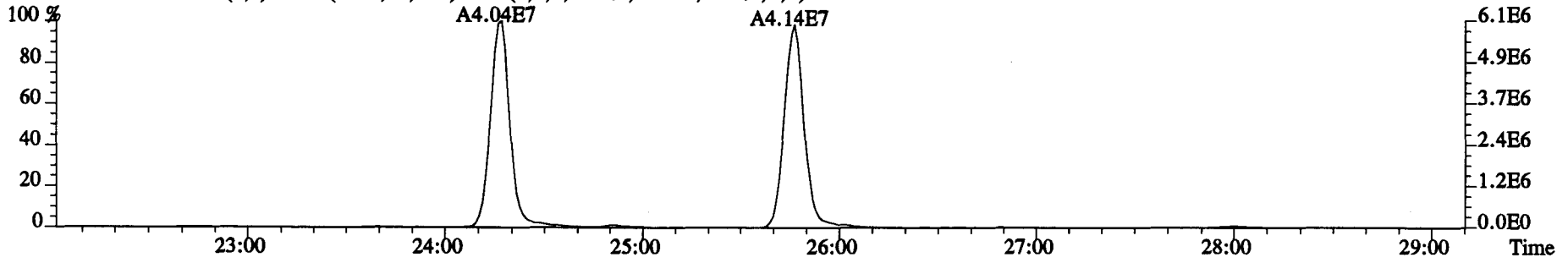
341.8567 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3776.0,1.00%,F,T)



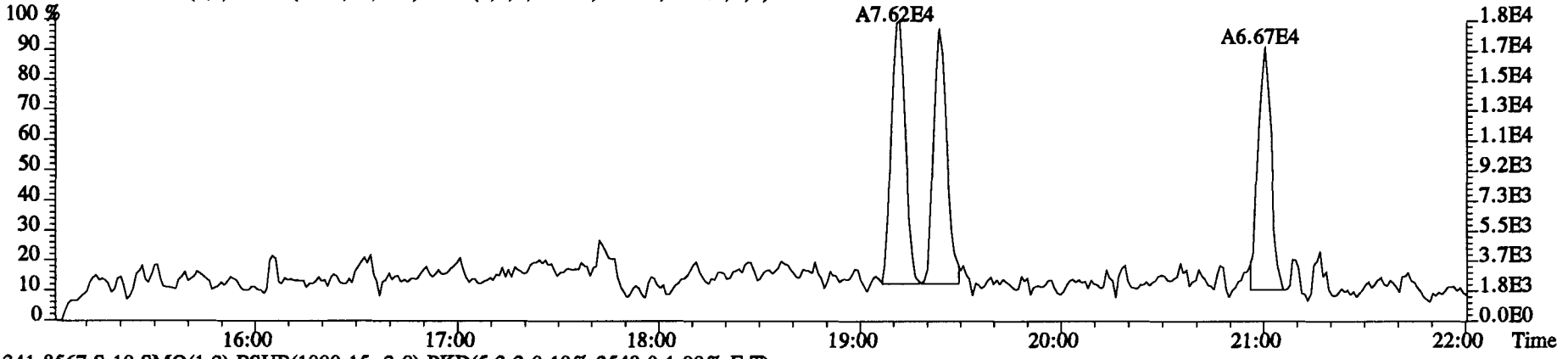
351.9000 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5532.0,1.00%,F,T)



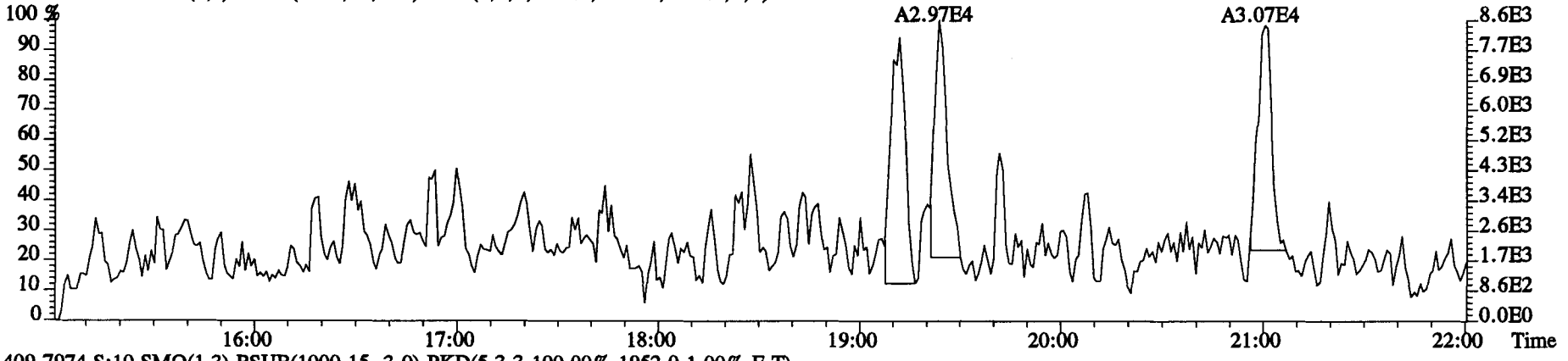
353.8970 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5472.0,1.00%,F,T)



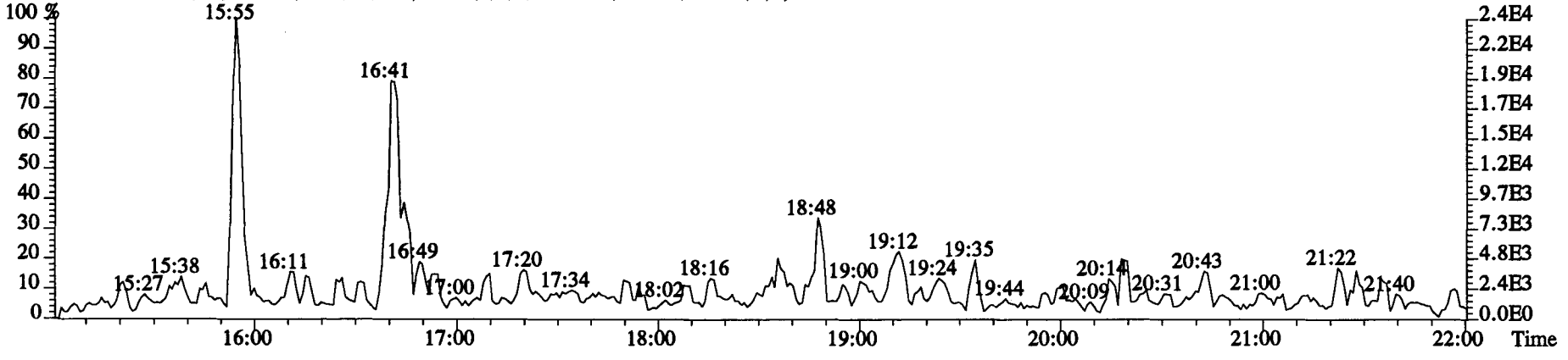
File:15DE109D5 #1-464 Acq:15-DEC-2010 16:26:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:MA8DM-1-AA :G0L110441-8 Exp:DIOXINRES
339.8597 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3336.0,1.00%,F,T)



341.8567 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2548.0,1.00%,F,T)

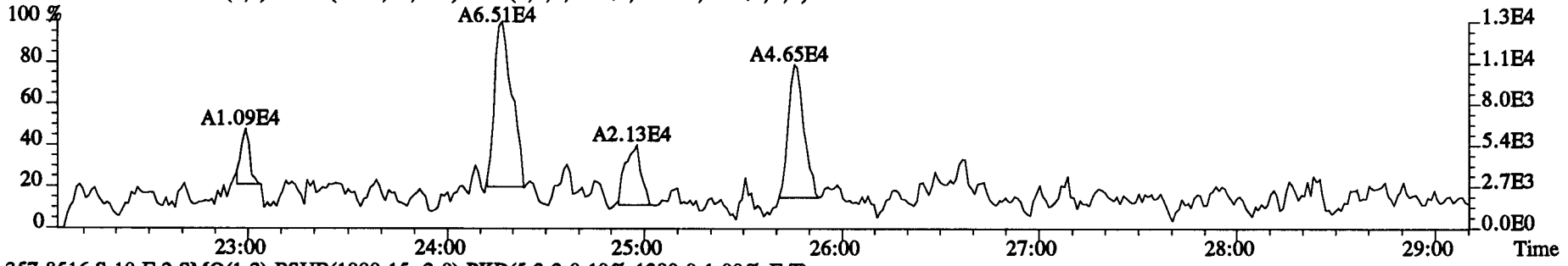


409.7974 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1952.0,1.00%,F,T)

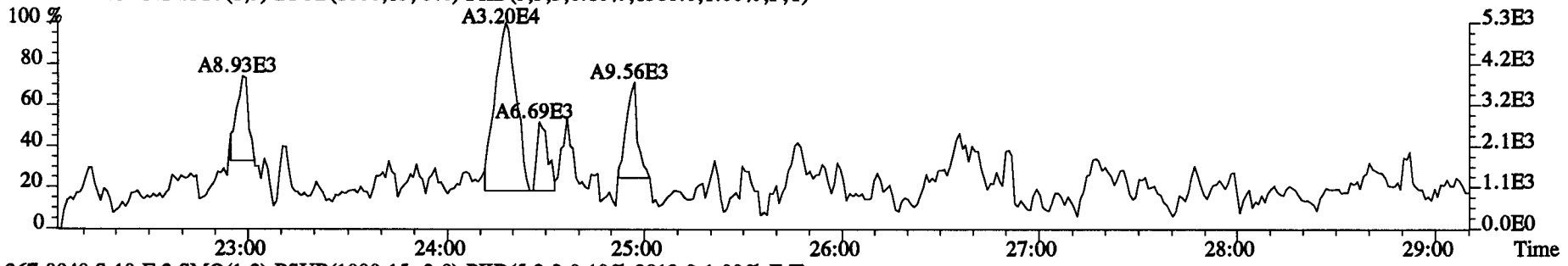


File:15DE109D5 #1-459 Acq:15-DEC-2010 16:26:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:MA8DM-1-AA :G0L110441-8 Exp:DIOXINRES

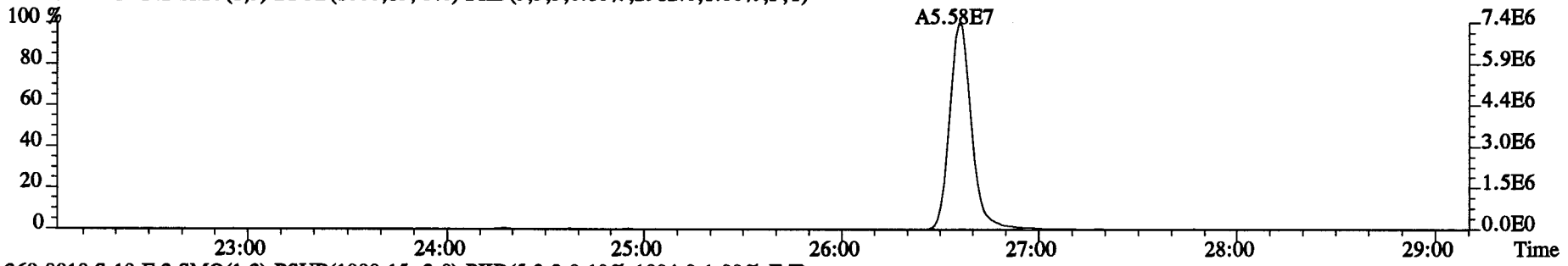
355.8546 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2672.0,1.00%,F,T)



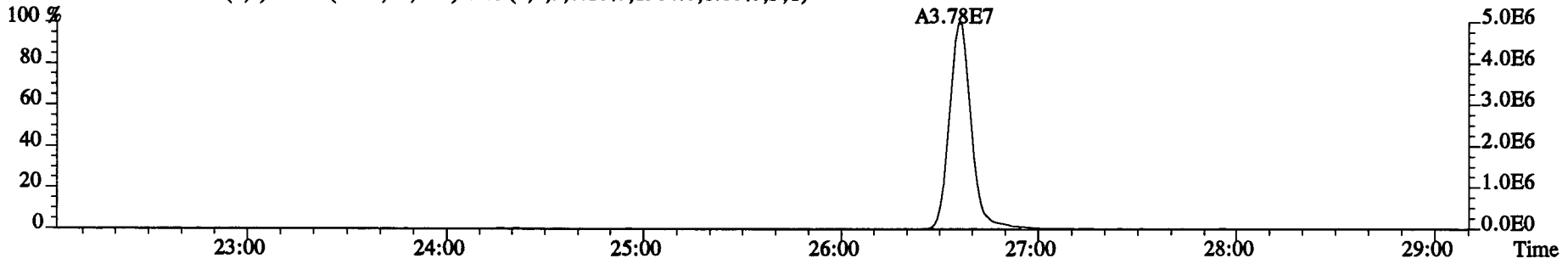
357.8516 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1380.0,1.00%,F,T)



367.8949 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2912.0,1.00%,F,T)

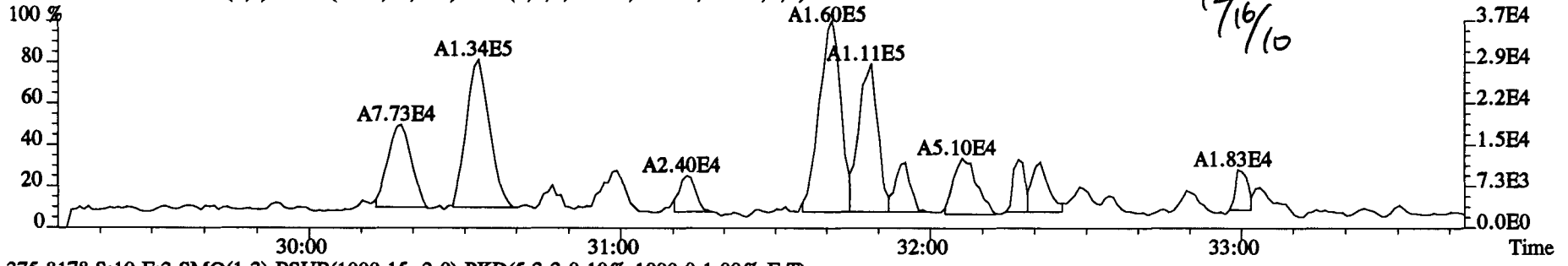


369.8919 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1904.0,1.00%,F,T)

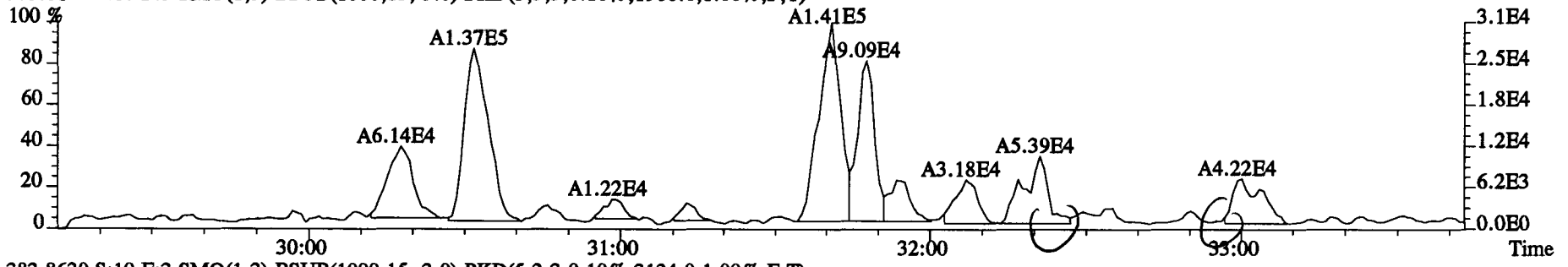


File:15DE109D5 #1-326 Acq:15-DEC-2010 16:26:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:MA8DM-1-AA :G0L110441-8 Exp:DIOXINRES

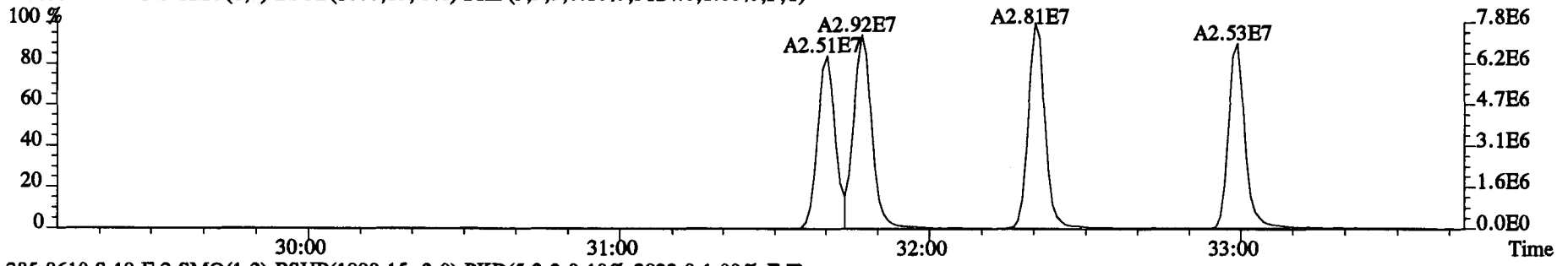
373.8208 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4420.0,1.00%,F,T)



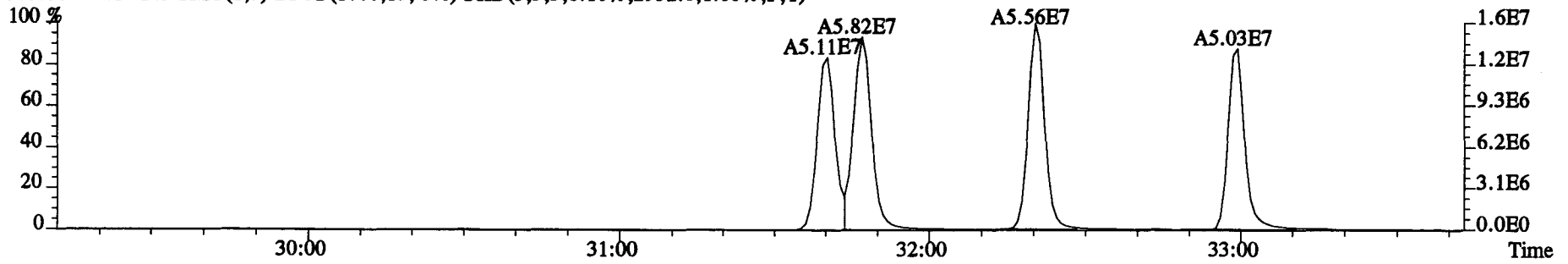
375.8178 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1900.0,1.00%,F,T)



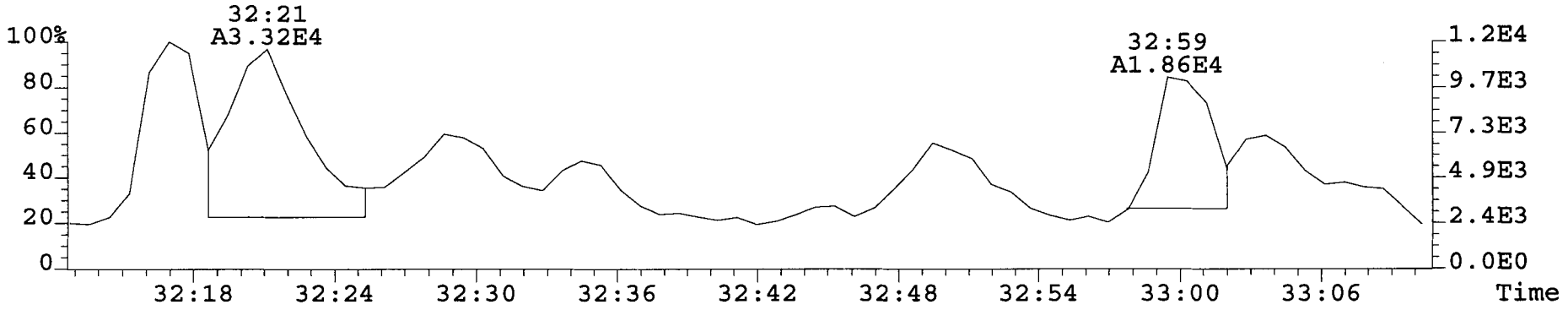
383.8639 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3124.0,1.00%,F,T)



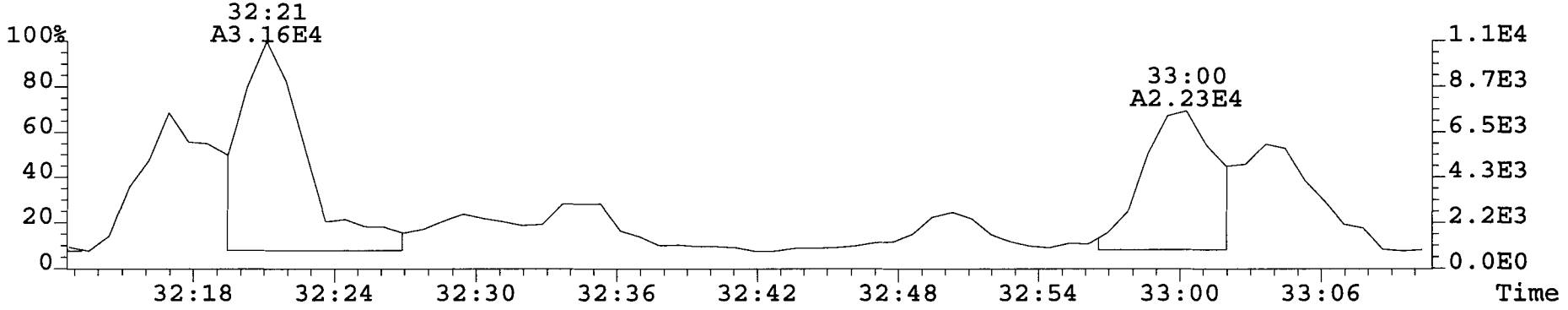
385.8610 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2932.0,1.00%,F,T)



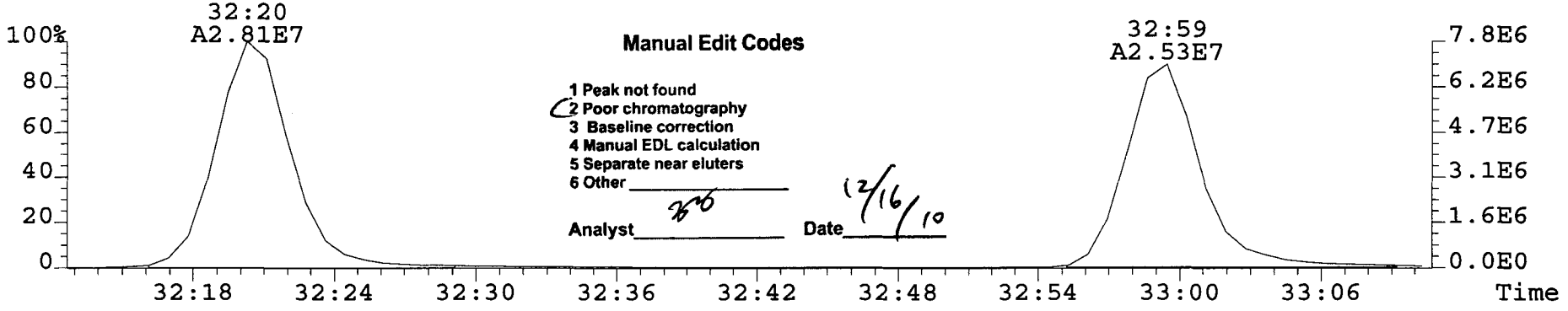
File:15DE109D5 #1-326 Acq:15-DEC-2010 16:26:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:MA8DM-1-AA :G0L110441-8 Exp:DIOXINRES
373.8208 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4420.0,1.00%,F,T)



375.8178 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1900.0,1.00%,F,T)



383.8639 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3124.0,1.00%,F,T)



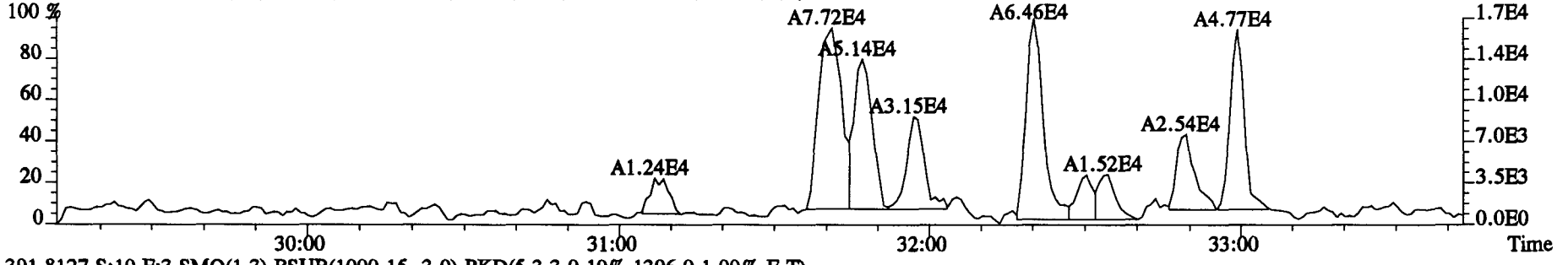
Manual Edit Codes

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

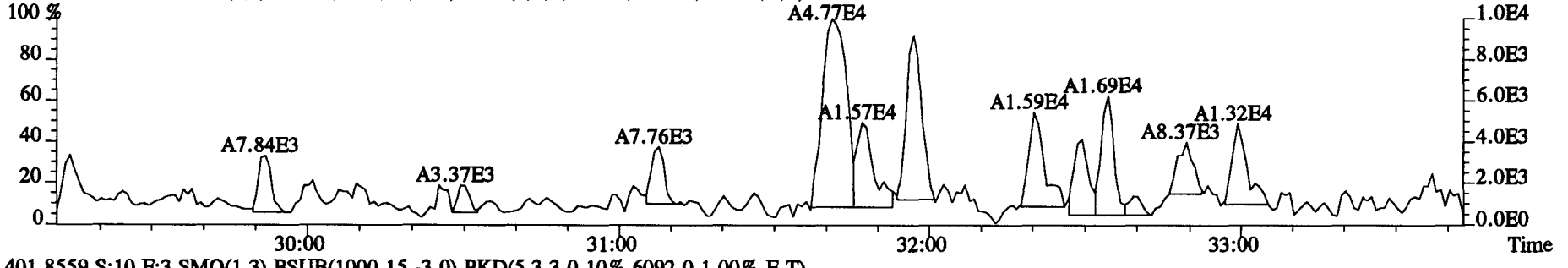
Analyst _____ Date 12/16/10

File:15DE109D5 #1-326 Acq:15-DEC-2010 16:26:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:MA8DM-1-AA :G0L110441-8 Exp:DIOXINRES

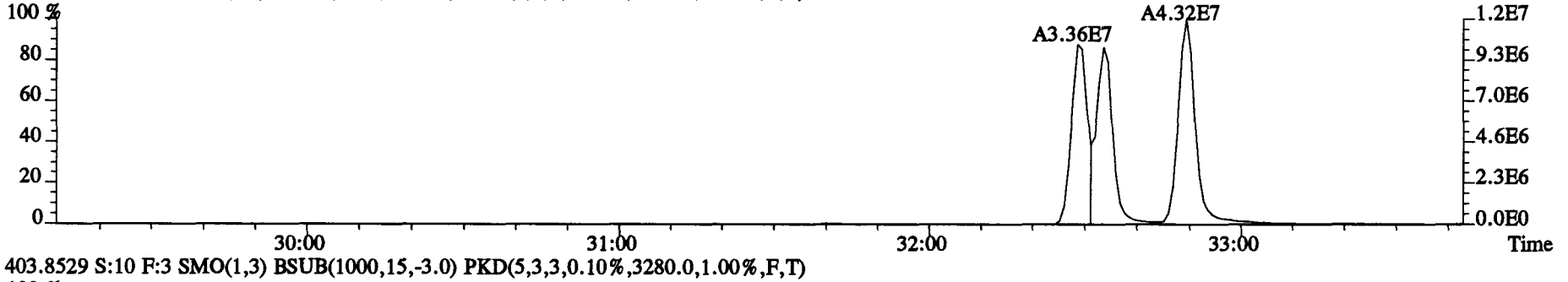
389.8157 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1500.0,1.00%,F,T)



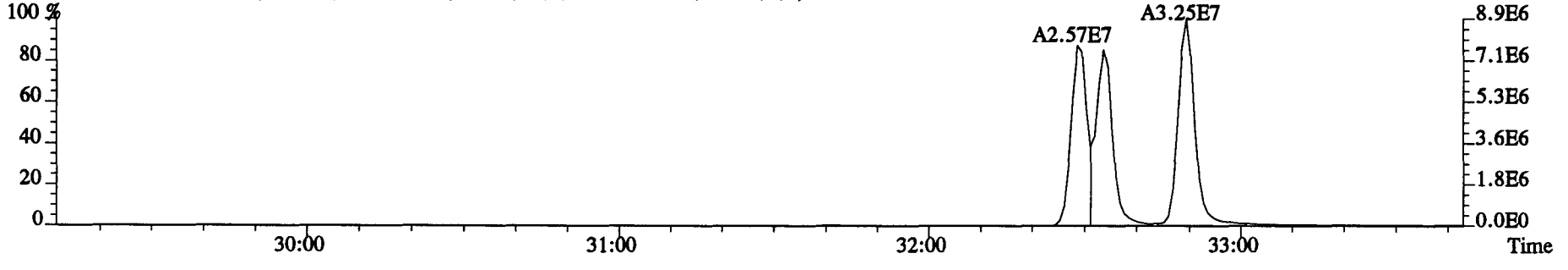
391.8127 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1396.0,1.00%,F,T)



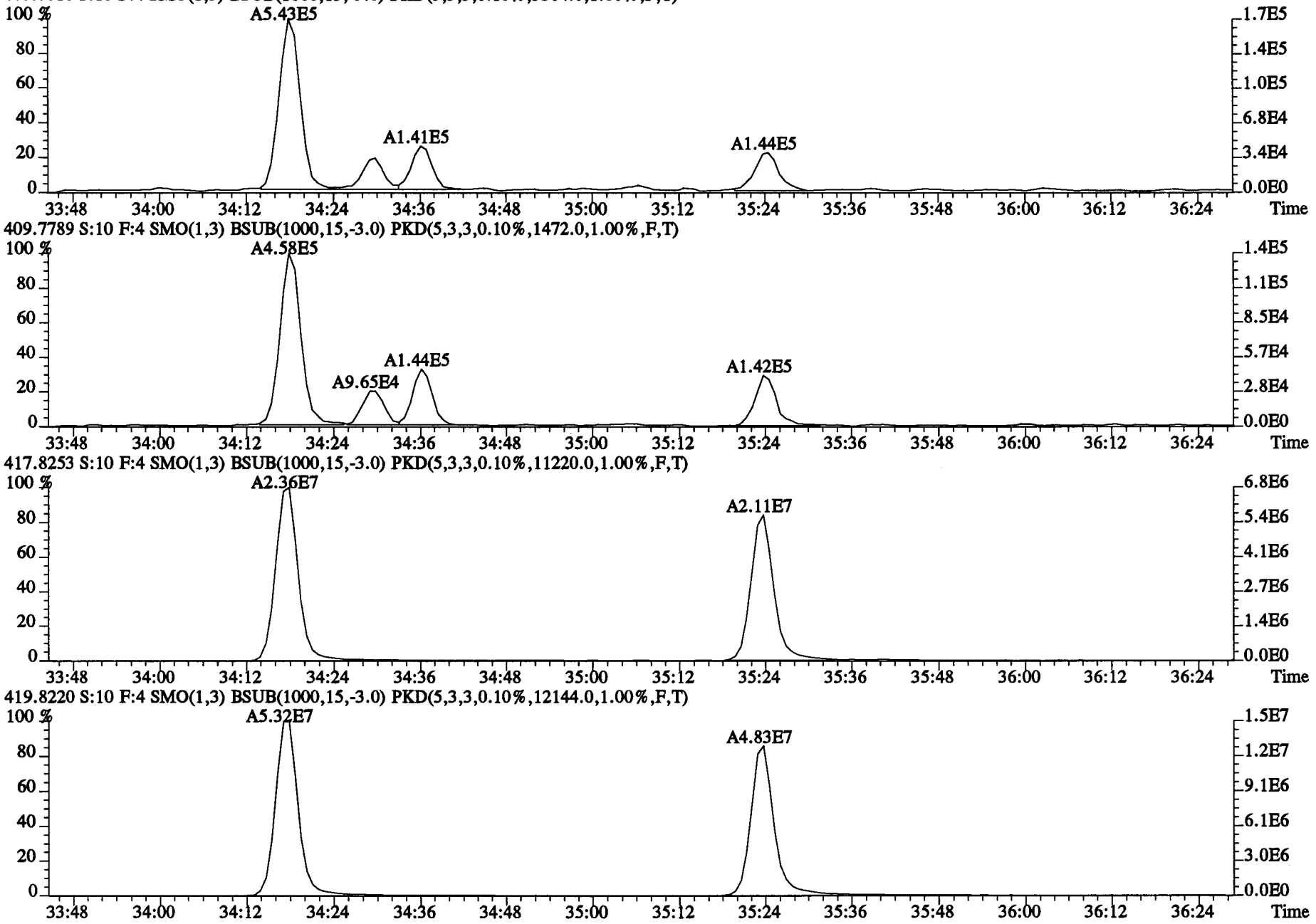
401.8559 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6092.0,1.00%,F,T)



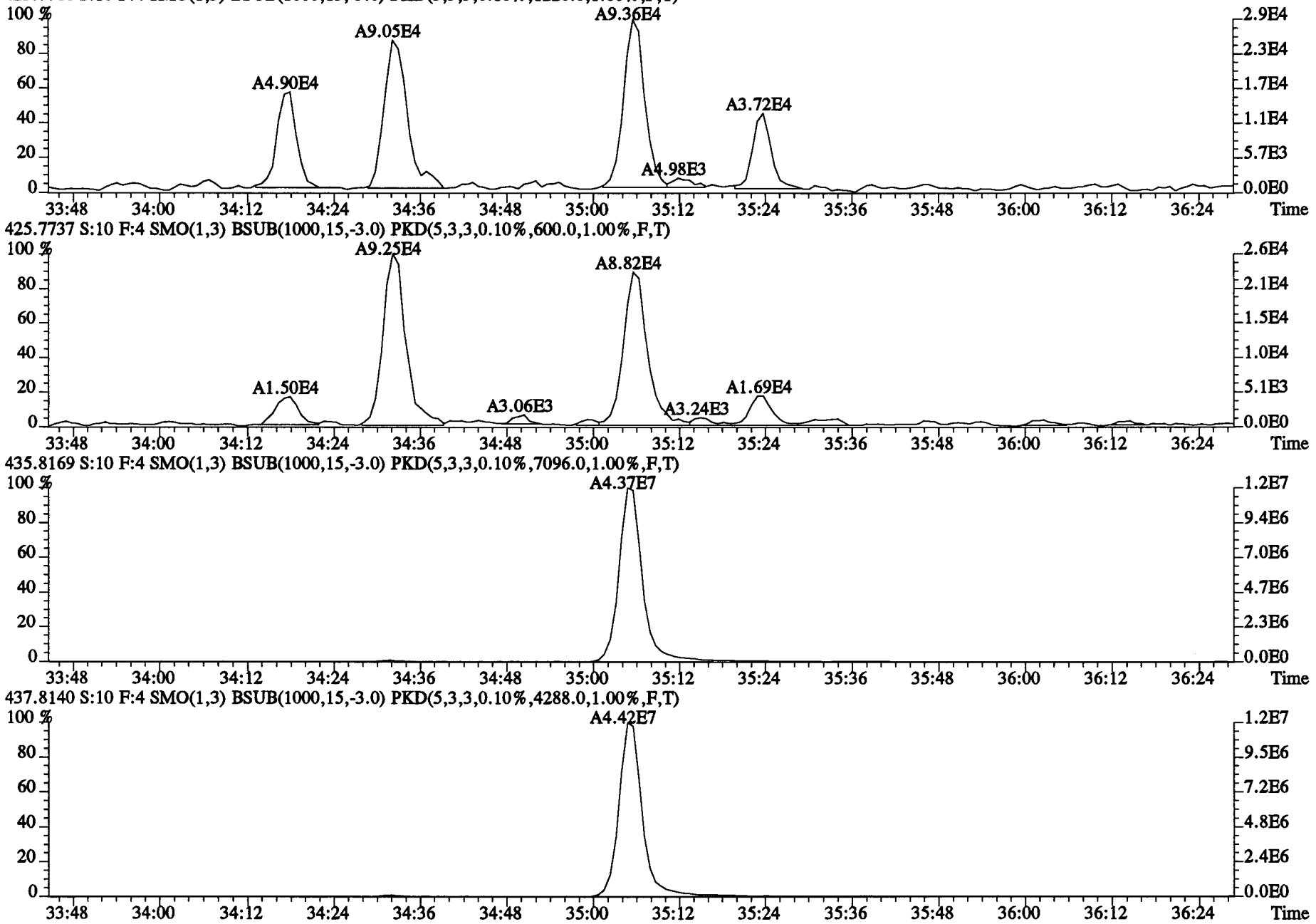
403.8529 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3280.0,1.00%,F,T)



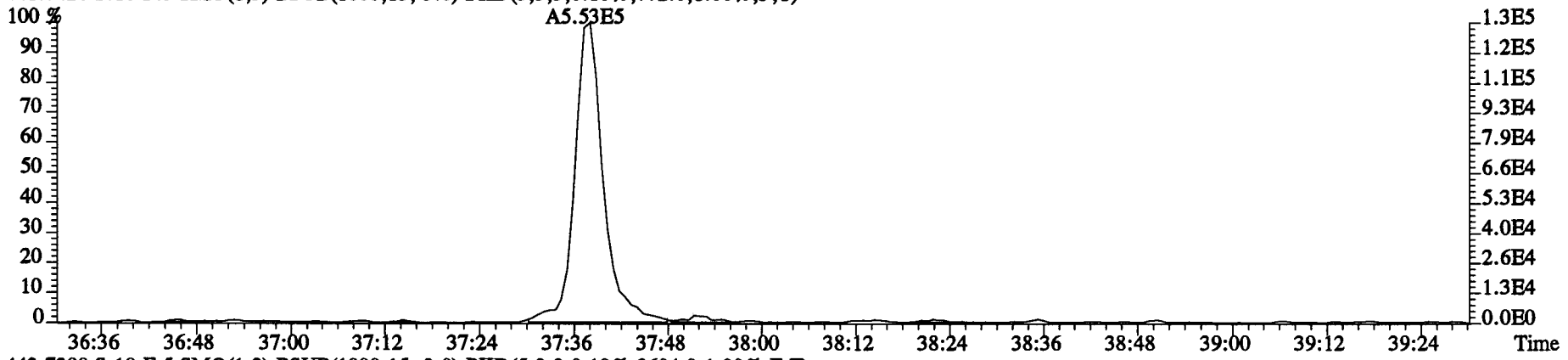
File:15DE109D5 #1-208 Acq:15-DEC-2010 16:26:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:MA8DM-1-AA :G0L110441-8 Exp:DIOXINRES



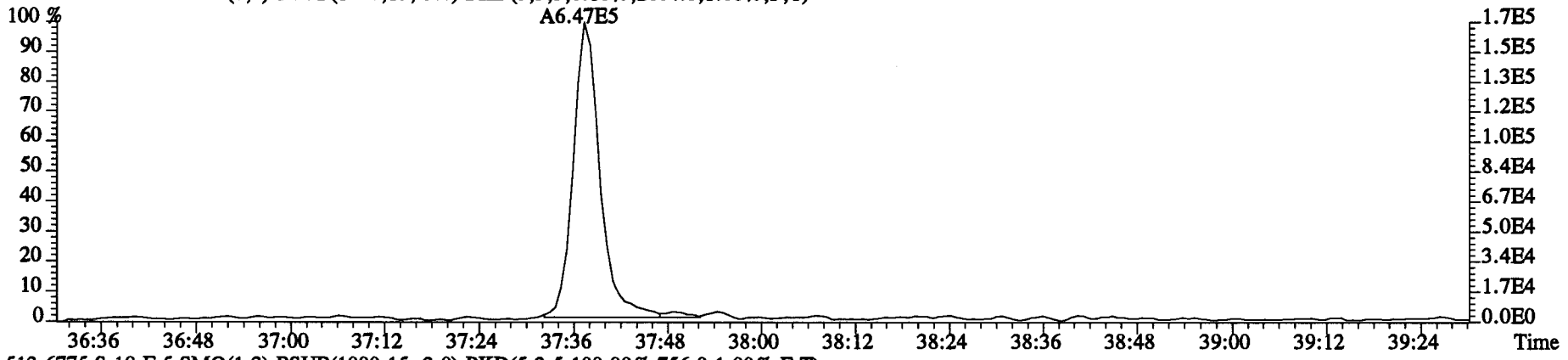
File:15DE109D5 #1-208 Acq:15-DEC-2010 16:26:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:MA8DM-1-AA :G0L110441-8 Exp:DIOXINRES



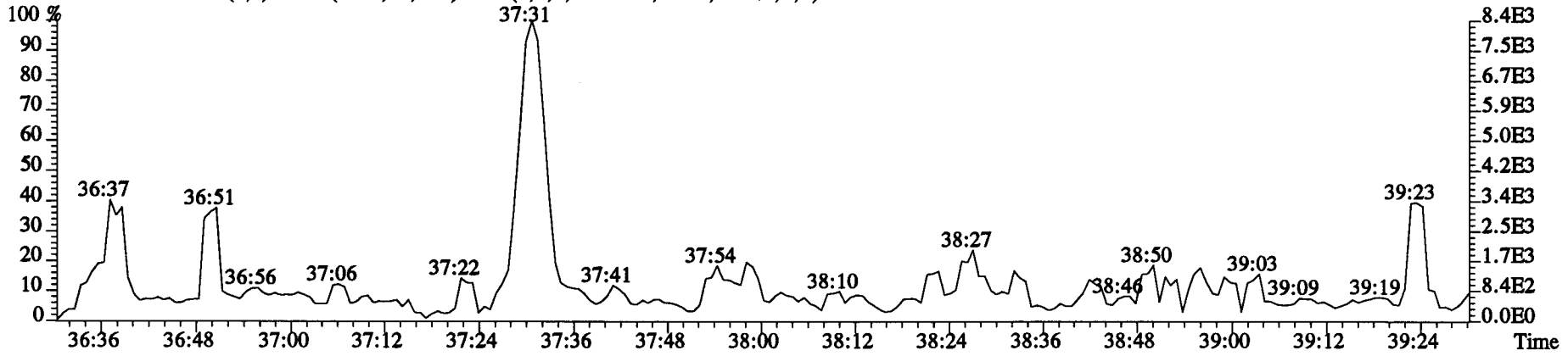
File:15DE109D5 #1-243 Acq:15-DEC-2010 16:26:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:MA8DM-1-AA :G0L110441-8 Exp:DIOXINRES
441.7428 S:10 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,772.0,1.00%,F,T)



443.7399 S:10 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2604.0,1.00%,F,T)

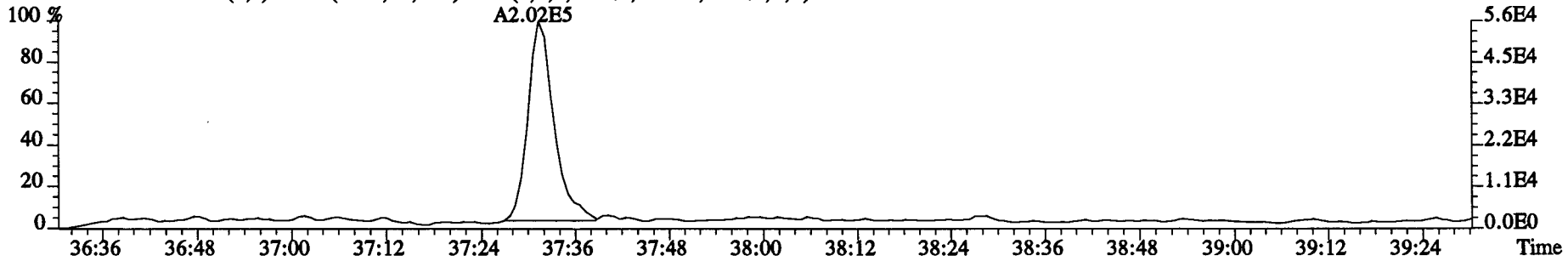


513.6775 S:10 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,756.0,1.00%,F,T)

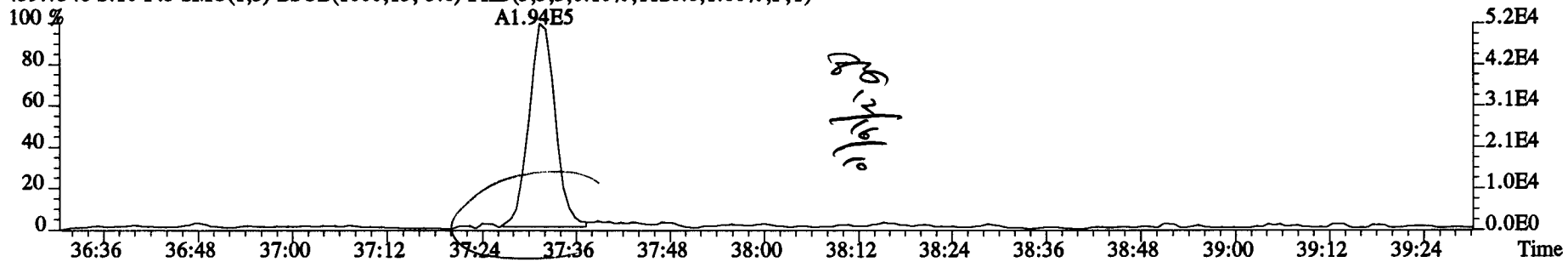


File:15DE109D5 #1-243 Acq:15-DEC-2010 16:26:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:MA8DM-1-AA :G0L110441-8 Exp:DIOXINRES

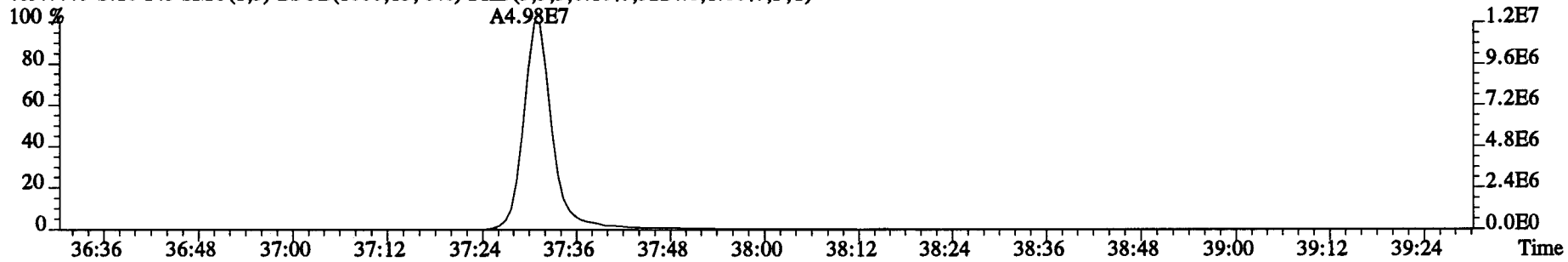
457.7377 S:10 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2848.0,1.00%,F,T)



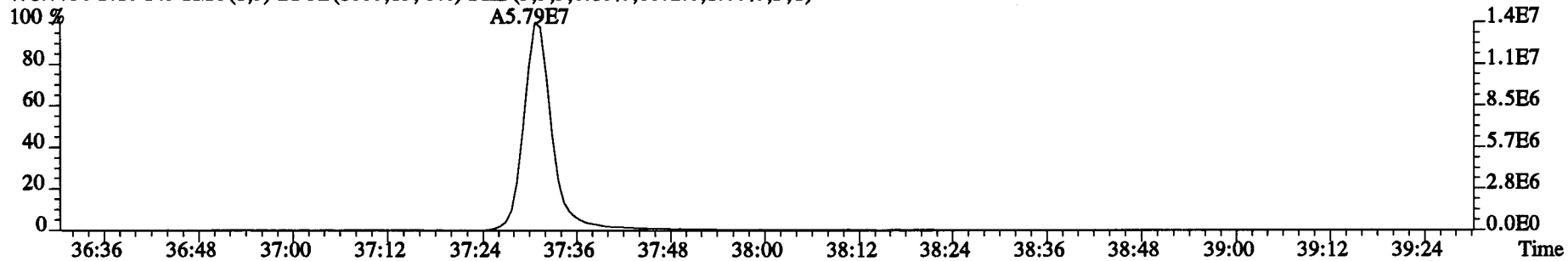
459.7348 S:10 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1120.0,1.00%,F,T)



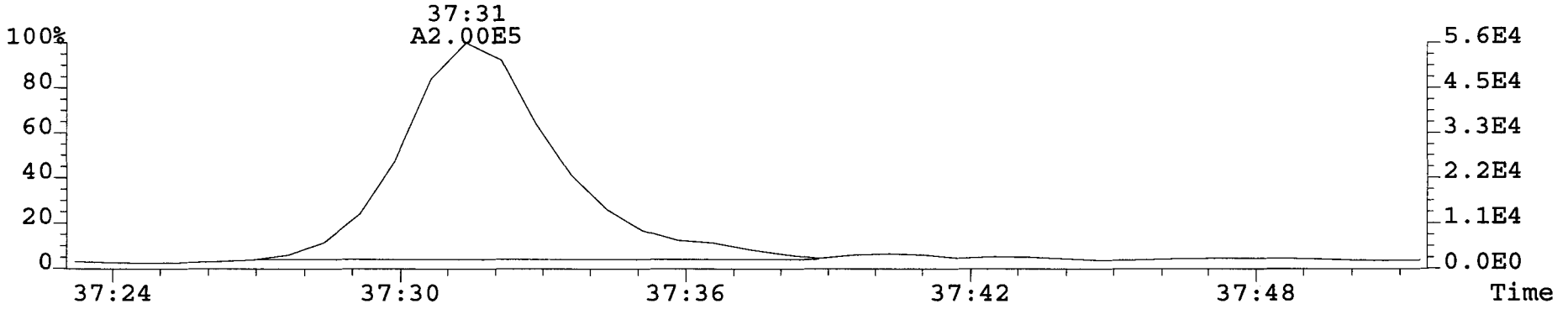
469.7779 S:10 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3224.0,1.00%,F,T)



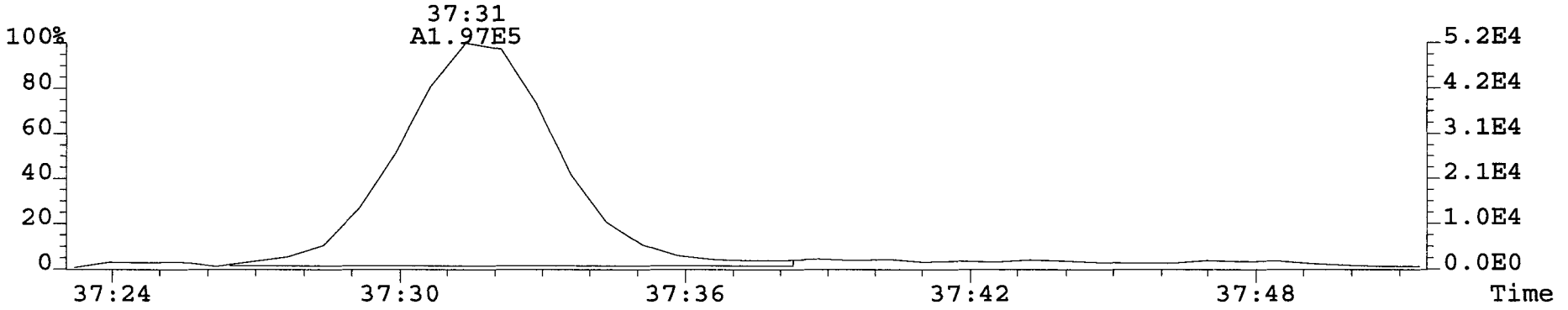
471.7750 S:10 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8072.0,1.00%,F,T)



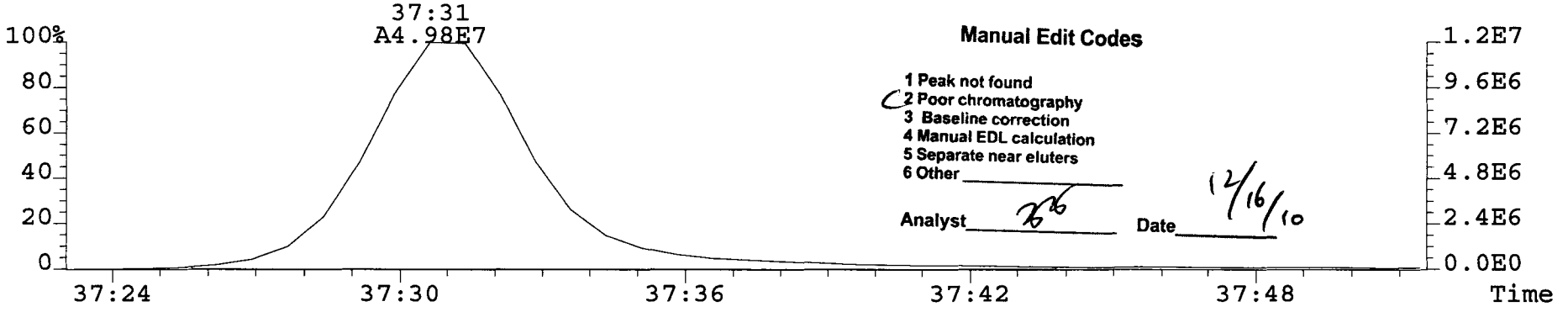
File:15DE109D5 #1-243 Acq:15-DEC-2010 16:26:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:MA8DM-1-AA :G0L110441-8 Exp:DIOXINRES
457.7377 S:10 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2848.0,1.00%,F,T)



459.7348 S:10 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1120.0,1.00%,F,T)



469.7779 S:10 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3224.0,1.00%,F,T)



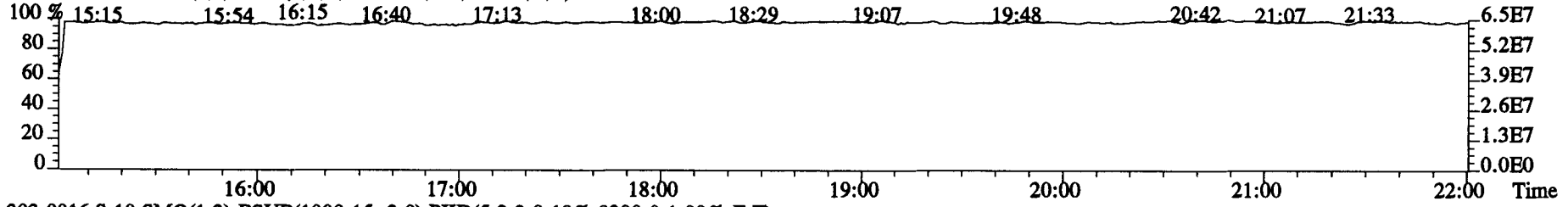
Manual Edit Codes

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

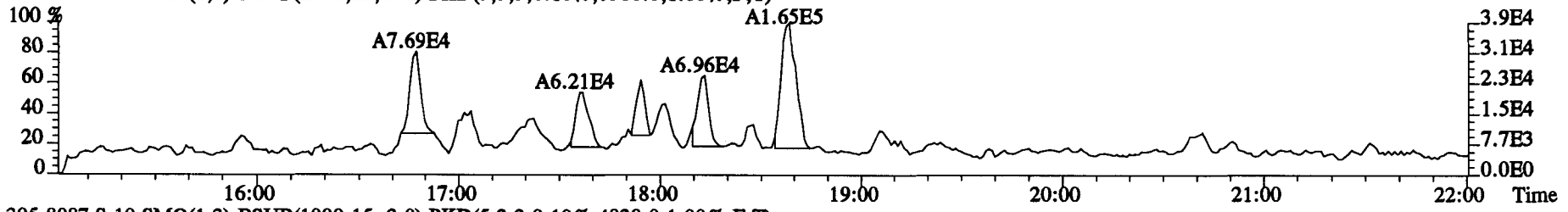
Analyst KK Date 12/16/10

File:15DE109D5 #1-464 Acq:15-DEC-2010 16:26:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:MA8DM-1-AA :G0L110441-8 Exp:DIOXINRES

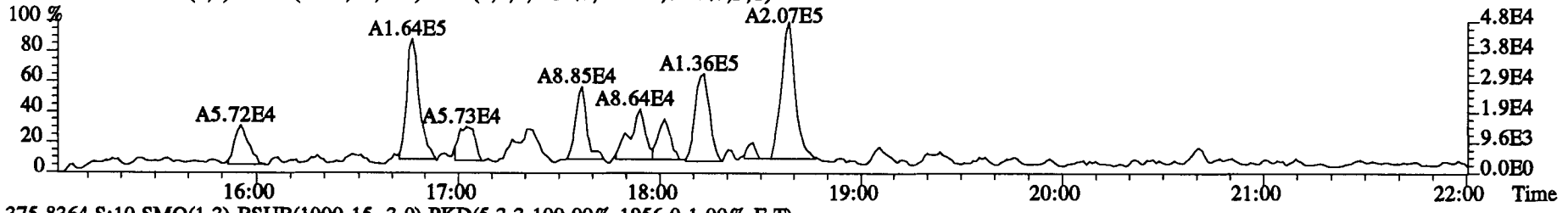
292.9825 S:10 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



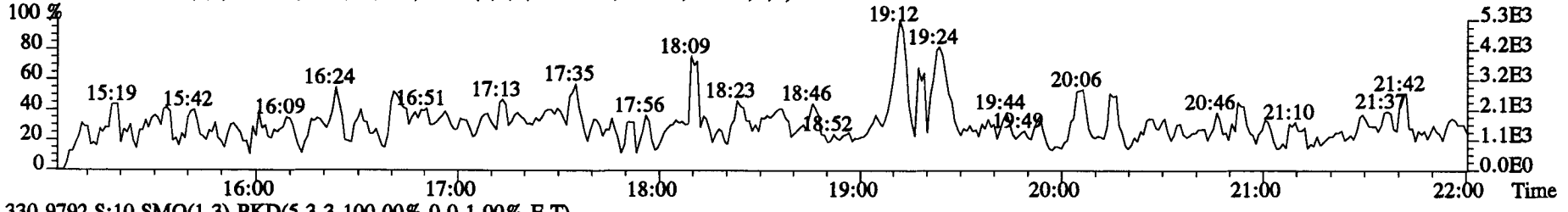
303.9016 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8380.0,1.00%,F,T)



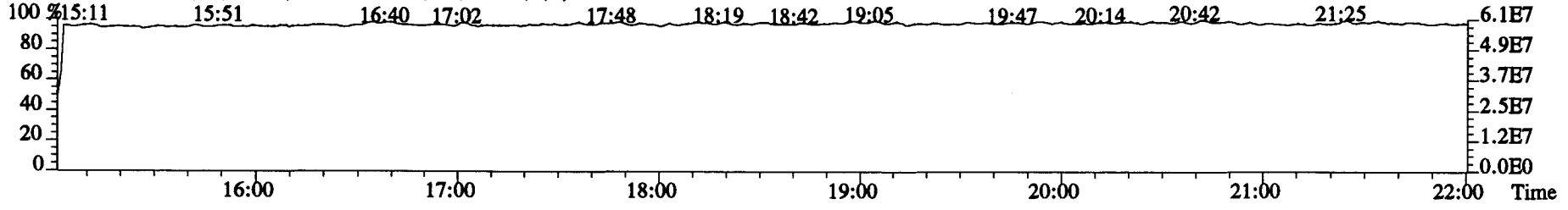
305.8987 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4828.0,1.00%,F,T)



375.8364 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1956.0,1.00%,F,T)

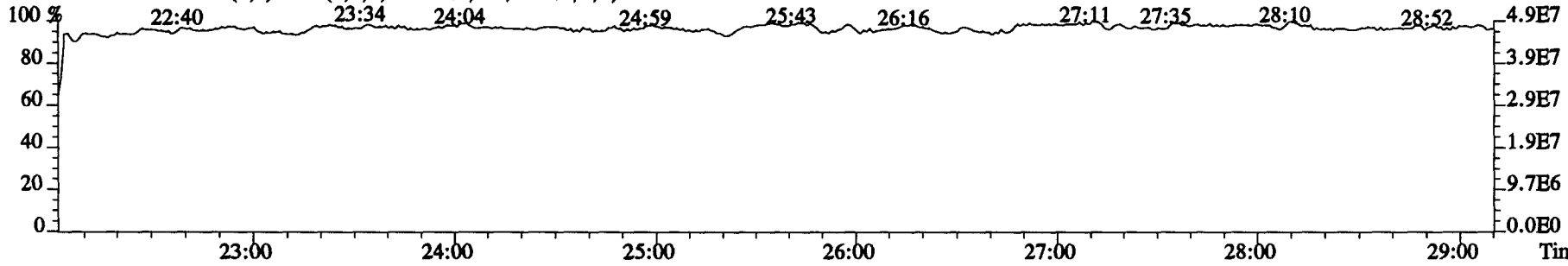


330.9792 S:10 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

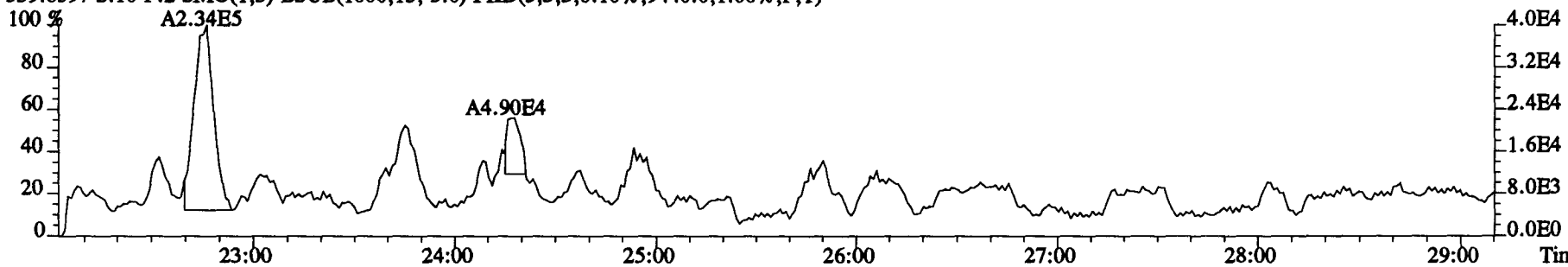


File:15DE109D5 #1-459 Acq:15-DEC-2010 16:26:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:MA8DM-1-AA :G0L110441-8 Exp:DIOXINRES

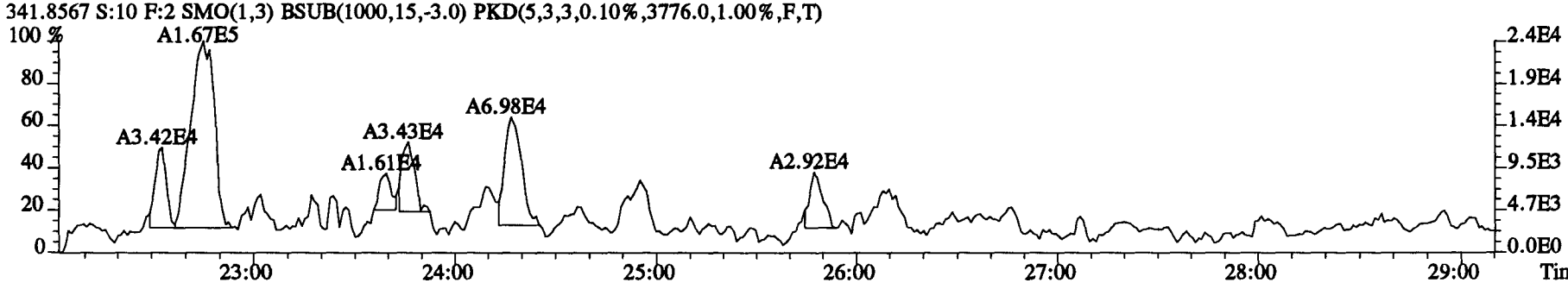
342.9792 S:10 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



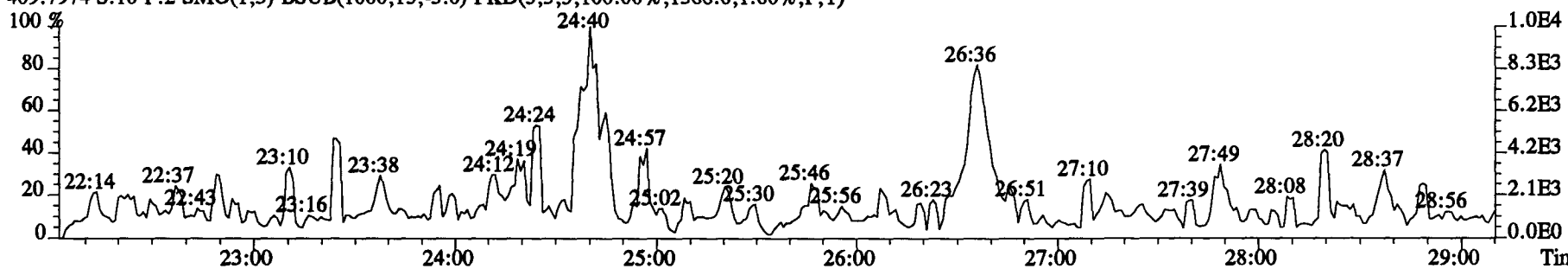
339.8597 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9440.0,1.00%,F,T)



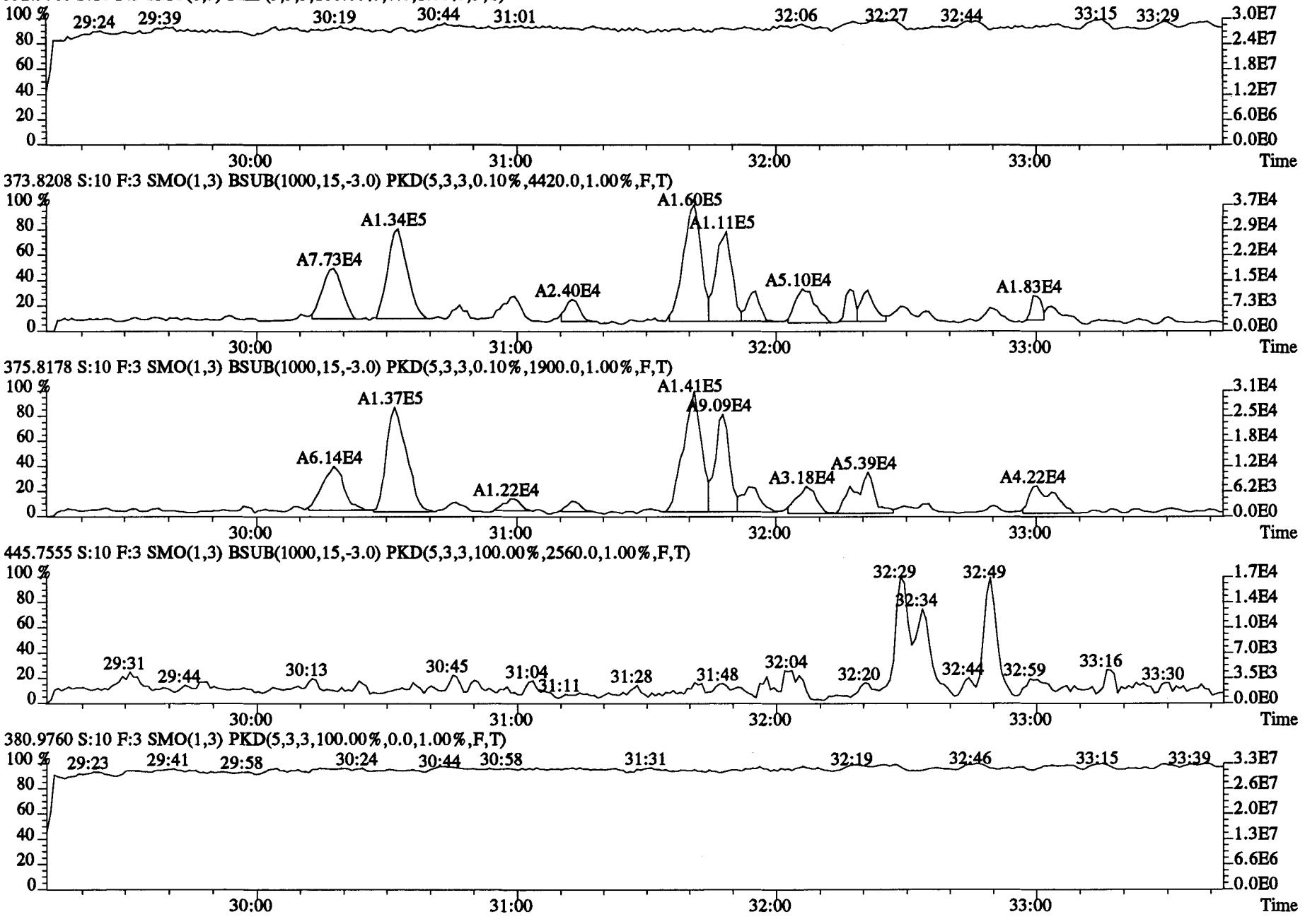
341.8567 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3776.0,1.00%,F,T)



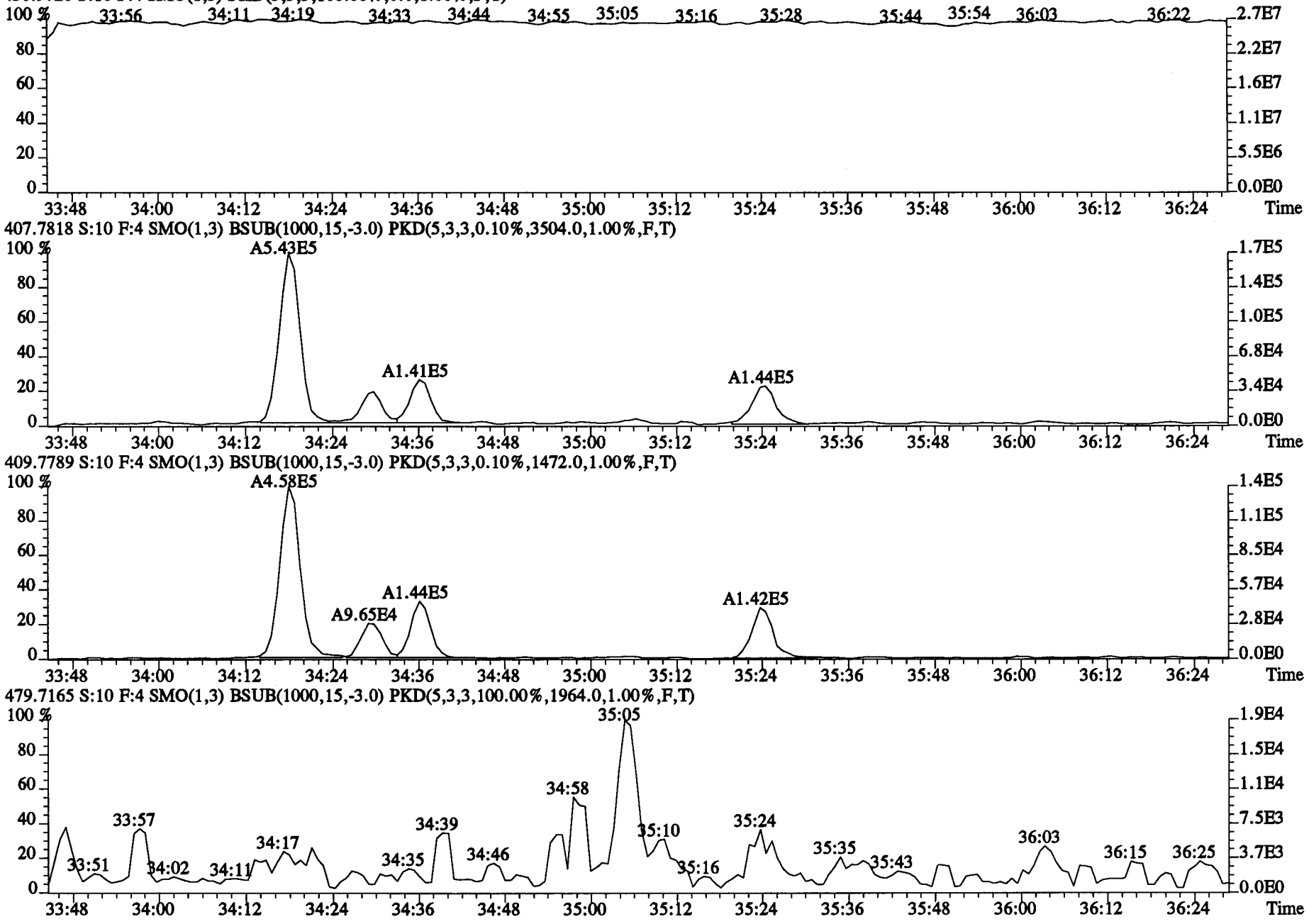
409.7974 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1388.0,1.00%,F,T)



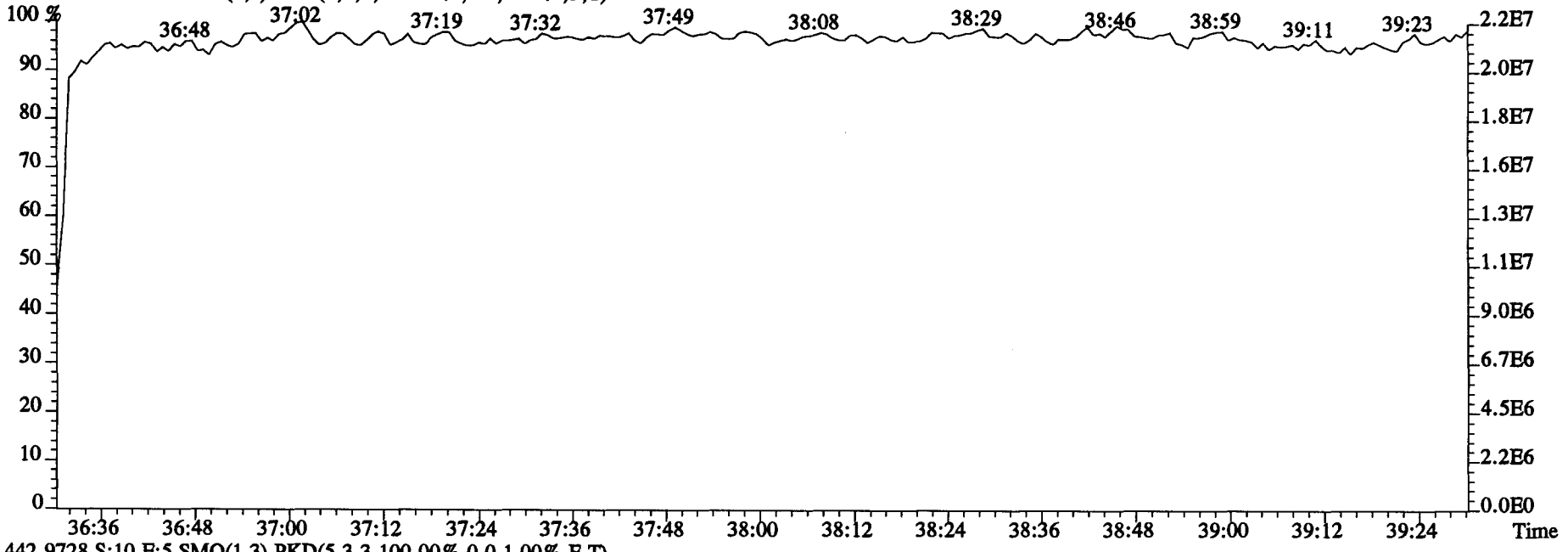
File:15DE109D5 #1-326 Acq:15-DEC-2010 16:26:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:MA8DM-1-AA :G0L110441-8 Exp:DIOXINRES



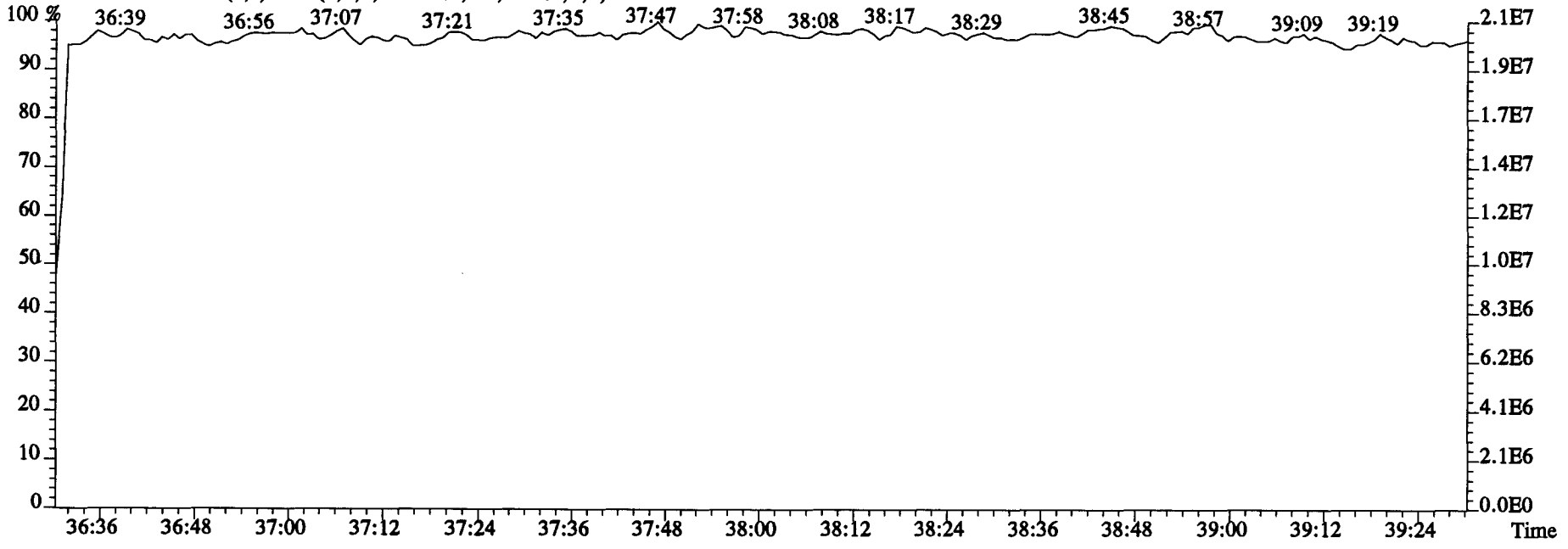
File:15DE109D5 #1-208 Acq:15-DEC-2010 16:26:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:MA8DM-1-AA :G0L110441-8 Exp:DIOXINRES



File:15DE109D5 #1-243 Acq:15-DEC-2010 16:26:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:MA8DM-1-AA :G0L110441-8 Exp:DIOXINRES
454.9728 S:10 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:10 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: MA8DT-1-AA Sample text: MA8DT-1-AA :G0L110441-11
Run #11 Filename: 15DE109D5 S: 11 I: 1 Results: 15DE109D5TO9SY
Acquired: 15-DEC-10 17:10:39 Processed: 16-DEC-10 10:01:00
Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.50 SAMP

12/16/10

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	126897100	0.74	y	19:11	-	160.83	-	-	n
13C-2,3,7,8-TCDF	125001700	0.80	y	18:36	1.11	3537.14	2.81	88.4	n
2,3,7,8-TCDF	1100936	0.77	y	18:38	0.88	39.90 see D13225	7.29	-	n
Total TCDF	5624727	0.71	y	15:55	0.88	~~203.86~~ 193.433	7.29	-	n
13C-2,3,7,8-TCDD	115488600	0.74	y	19:24	0.97	3745.34	9.50	93.6	n
2,3,7,8-TCDD	17716	0.29	n	19:25	0.87	~~0.70~~	2.74	-	n
Total TCDD	385964	0.92	n	16:56	0.87	~~15.34~~ 9.473	2.74	-	n
37Cl-2,3,7,8-TCDD	53341200	1.00	y	19:25	1.22	1509.89	1.64	94.4	n
13C-1,2,3,7,8-PeCDF	105978200	1.50	y	24:16	0.92	3627.08	5.11	90.7	n
1,2,3,7,8-PeCDF	751783	1.40	y	24:17	1.06	J 26.65	7.71	-	n
2,3,4,7,8-PeCDF	300987	1.49	y	25:47	1.03	J 11.06	7.98	-	y
Total F2 PeCDF	4295904	1.67	y	22:31	1.05	154.73	7.84	-	y
Total F1 PeCDF	527541	2.83	n	19:11	1.05	+ ~~19.03~~ 13.865 = ~~4.55~~ 168.595	~~4.55~~	-	n
13C-1,2,3,7,8-PeCDD	99332300	1.48	y	26:35	0.83	3775.17	2.54	94.4	n
1,2,3,7,8-PeCDD	44478	1.02	n	26:35	0.79	~~2.26~~	4.41	-	n
Total PeCDD	381202	1.03	n	22:58	0.79	~~19.36~~ 6.616	4.41	-	n
13C-1,2,3,7,8,9-HxCDD	77722200	1.32	y	32:49	-	151.46	-	-	n
13C-1,2,3,4,7,8-HxCDF	77139400	0.50	y	31:39	1.07	3702.85	3.36	92.6	n
1,2,3,4,7,8-HxCDF	967784	1.26	y	31:40	1.06	J 47.22	4.84	-	y
1,2,3,6,7,8-HxCDF	766817	1.31	y	31:47	1.12	J 35.45	4.59	-	n
2,3,4,6,7,8-HxCDF	160403	1.16	y	32:20	1.05	J 7.94	4.91	-	y
1,2,3,7,8,9-HxCDF	104605	1.05	ny	32:59	0.95	J 5.69	5.40	-	y
Total HxCDF	4941448	1.28	y	30:17	1.05	242.10	4.92	-	y
13C-1,2,3,6,7,8-HxCDD	64435200	1.32	y	32:33	0.89	3734.17	6.36	93.4	n
1,2,3,4,7,8-HxCDD	35897	1.24	y	32:29	1.11	J 2.00	1.58	-	n
1,2,3,6,7,8-HxCDD	64896	1.26	y	32:34	1.16	3.47	1.52	-	n
1,2,3,7,8,9-HxCDD	53888	1.28	y	32:49	1.20	2.78	1.46	-	n
Total HxCDD	501146	1.57	n	31:41	1.16	26.83	1.52	-	y
13C-1,2,3,4,6,7,8-HpCDF	76585300	0.44	y	34:17	0.95	4157.33	10.54	103.9	n
1,2,3,4,6,7,8-HpCDF	3648550	1.11	y	34:18	1.44	132.77	2.30	-	n
1,2,3,4,7,8,9-HpCDF	1118640	1.10	y	35:24	1.23	J 47.63	2.70	-	n
Total HpCDF	6881792	1.11	y	34:18	1.33	263.38	2.49	-	n
13C-1,2,3,4,6,7,8-HpCDD	86823600	0.98	y	35:05	1.08	4155.34	8.44	103.9	n
1,2,3,4,6,7,8-HpCDD	266404	1.01	y	35:05	0.90	J 13.71	1.16	-	n
Total HpCDD	524370	4.27	n	34:17	0.90	~~26.98~~ 24.123	1.16	-	n
13C-OCDD	108323900	0.87	y	37:31	0.69	8081.37	6.57	101.0	n
OCDF	4948660	0.86	y	37:37	1.18	309.72	3.23	-	n

OCDD	450862	0.88	y	37:31	1.14	∫	29.25	/	2.80	- n

Run text: MA8DT-1-AA Sample text: MA8DT-1-AA :G0L110441-11
Run #11 Filename: 15DE109D5 S: 11 I: 1 Results: 15DE109D5TO9
Acquired: 15-DEC-10 17:10:39 Processed: 16-DEC-10 10:01:00
Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5
Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	126897100	0.74	y	19:11	-	160.835	-	-	n
13C-2,3,7,8-TCDF	125001700	0.80	y	18:36	1.11	3537.138	2.812	88.4	n
2,3,7,8-TCDF	1100936	0.77	y	18:38	0.88	39.901 See DB225	7.290	-	n
Total TCDF	5624727	0.71	y	15:55	0.88	~~203.858~~ 193.433	7.290	-	n
13C-2,3,7,8-TCDD	115488600	0.74	y	19:24	0.97	3745.337	9.497	93.6	n
2,3,7,8-TCDD	17716	0.29	n	19:25	0.87	~~0.704~~	2.741	-	n
Total TCDD	385964	0.92	n	16:56	0.87	~~15.338~~ 9.473	2.741	-	n
37Cl-2,3,7,8-TCDD	53341200	1.00	y	19:25	1.22	1509.888	1.644	94.4	n
13C-1,2,3,7,8-PeCDF	105978300	1.50	y	24:16	0.92	3627.085	5.112	90.7	n
1,2,3,7,8-PeCDF	751783	1.40	y	24:17	1.06	26.653 ✓	7.707	-	n
2,3,4,7,8-PeCDF	300991	1.49	y	25:47	1.03	11.056 ✓	7.984	-	n
Total F2 PeCDF	4739506	1.67	y	22:31	1.05	170.731	7.843	-	n
Total F1 PeCDF	527541	2.83	n	19:11	1.05	19.034	~~4.554~~	-	n
13C-1,2,3,7,8-PeCDD	99332300	1.48	y	26:35	0.83	3775.165	2.539	94.4	n
1,2,3,7,8-PeCDD	44478	1.02	n	26:35	0.79	~~2.258~~	4.414	-	n
Total PeCDD	381202	1.03	n	22:58	0.79	~~19.355~~ 6.616	4.414	-	n
13C-1,2,3,7,8,9-HxCDD	77722200	1.32	y	32:49	-	151.463	-	-	n
13C-1,2,3,4,7,8-HxCDF	77139400	0.50	y	31:39	1.07	3702.846	3.363	92.6	n
1,2,3,4,7,8-HxCDF	1144301	1.27	y	31:40	1.06	55.832	4.840	-	n
1,2,3,6,7,8-HxCDF	766817	1.31	y	31:47	1.12	35.452	4.586	-	n
2,3,4,6,7,8-HxCDF	355468	1.04	n	32:17	1.05	17.585	4.907	-	n
1,2,3,7,8,9-HxCDF	273801	1.13	y	33:04	0.95	14.905	5.400	-	n
Total HxCDF	5007280	1.28	y	30:17	1.05	246.035	4.916	-	n
13C-1,2,3,6,7,8-HxCDD	64435200	1.32	y	32:33	0.89	3734.171	6.361	93.4	n
1,2,3,4,7,8-HxCDD	35897	1.24	y	32:29	1.11	2.001	1.577	-	n
1,2,3,6,7,8-HxCDD	64895	1.26	y	32:34	1.16	3.475	1.515	-	n
1,2,3,7,8,9-HxCDD	53888	1.28	y	32:49	1.20	2.784	1.462	-	n
Total HxCDD	658620	0.72	n	31:07	1.16	35.271	1.517	-	n
13C-1,2,3,4,6,7,8-HpCDF	76585300	0.44	y	34:17	0.95	4157.332	10.541	103.9	n
1,2,3,4,6,7,8-HpCDF	3648550	1.11	y	34:18	1.44	132.774 ✓	2.305	-	n
1,2,3,4,7,8,9-HpCDF	1118640	1.10	y	35:24	1.23	47.630 ✓	2.696	-	n
Total HpCDF	6881792	1.11	y	34:18	1.33	263.385 ✓	2.485	-	n
13C-1,2,3,4,6,7,8-HpCDD	86823600	0.98	y	35:05	1.08	4155.341	8.440	103.9	n
1,2,3,4,6,7,8-HpCDD	266404	1.01	y	35:05	0.90	13.709 ✓	1.161	-	n
Total HpCDD	524370	4.27	n	34:17	0.90	~~26.983~~ 24.123	1.161	-	n
13C-OCDD	108323900	0.87	y	37:31	0.69	8081.369	6.574	101.0	n
OCDF	4948660	0.86	y	37:37	1.18	309.718	3.229	-	n
OCDD	450862	0.88	y	37:31	1.14	29.245	2.803	-	n

Run Text: MA8DT-1-AA Sample text: MA8DT-1-AA :G0L110441-11

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:10
Run: 11 File: 15DE109D5 S:11 Acq:15-DEC-10 17:10:39
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	101.929 of which	19.951 named and	81.978	unnamed
Conc:	203.858 of which	39.901 named and	163.956	unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:55	0.709 y	6.449	73835	2.350	n	n
					104095	5.235	y	n
	2	16:46	0.798 y	37.310	456971	11.073	y	n
					572467	24.091	y	n
	3	17:02	0.700 y	15.393	174815	3.662	y	n
					249911	8.200	y	n
	4	17:21	0.669 y	16.082	177842	3.026	y	n
					265883	7.587	y	n
	5	17:36	0.700 y	20.672	234763	5.659	y	n
					335606	15.202	y	n
	6	17:53	0.830 y	18.968	237400	4.270	y	n
					285964	8.710	y	n
	7	18:00	0.792 y	17.547	213944	4.819	y	n
					270197	10.406	y	n
	8	18:12	0.736 y	27.559	322295	7.818	y	n
					438093	18.436	y	n
2,3,7,8-TCDF	9	18:38	0.770 y	39.901	479048	10.038	y	n
					621888	20.566	y	n
	10	20:40	0.643 n	3.976	47727	1.245	n	n
					74224	3.199	y	n

193.433

Run Text: MA8DT-1-AA Sample text: MA8DT-1-AA :G0L110441-11

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:6
Run: 11 File: 15DE109D5 S:11 Acq:15-DEC-10 17:10:39
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	7.669 of which	0.352 named and	7.317	unnamed
Conc:	15.338 of which	0.704 named and	14.634	unnamed

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

	1	16:56	0.924	n	2.906	38171	3.729	y n
						41311	4.275	y n
	2	17:15	0.854	y	6.567	76124	7.660	y n
						89119	9.865	y n
	3	18:08	0.606	n	2.104	23028	1.772	n n
						38010	3.270	y n
	4	18:36	3.674	n	1.643	85822	9.035	y n
						23361	2.527	n n
	5	19:17	1.280	n	1.415	25742	2.103	n n
						20114	2.696	n n
2,3,7,8-TCDD	6	19:25	0.286	n	0.704	7707	0.847	n n
						26949	2.945	n n

9.473

Run Text: MA8DT-1-AA Sample text: MA8DT-1-AA :G0L110441-11

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:10
Run: 11 File: 15DE109D5 S:11 Acq:15-DEC-10 17:10:39
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	85.365 of which	18.855 named and	66.511	unnamed
Conc:	170.731 of which	37.709 named and	133.022	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	22:31	1.671	y	11.753	203781	4.867	y	n
						121949	8.329	y	n
	2	22:45	1.526	y	54.967	920398	15.016	y	n
						603037	25.129	y	n
	3	23:02	1.626	y	7.784	133590	2.762	n	n
						82141	3.868	y	n
	4	23:18	1.312	n	4.679	77810	1.795	n	n
						59314	3.327	y	n
	5	23:44	1.432	y	27.520	449142	6.371	y	n
						313586	8.154	y	n
	6	24:07	1.262	n	8.680	146227	3.555	y	n
						115906	7.202	y	n
1,2,3,7,8-PeCDF	7	24:17	1.402	y	26.653	438740	9.012	y	n
						313043	14.396	y	n
	8	24:36	1.882	n	3.603	73690	1.675	n	n
						39160	1.705	n	n
	9	24:54	1.586	y	14.096	239605	3.786	y	n
						151067	6.023	y	n
2,3,4,7,8-PeCDF	10	25:47	1.491	y	11.056	180144	3.890	y	n
						120847	5.950	y	n

See P 3A

Run Text: MA8DT-1-AA Sample text: MA8DT-1-AA :G0L110441-11

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:3
Run: 11 File: 15DE109D5 S:11 Acq:15-DEC-10 17:10:39
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	9.517 of which	* named and	9.517	unnamed
Conc:	19.034 of which	* named and	19.034	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	19:11	2.829	n	2.535	77938	4.762	y	n

Run Text: MA8DT-1-AA Sample text: MA8DT-1-AA :G0L110441-11

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? yes #Hom:7
Run: 11 File: 15DE109D5 S:11 Acq:15-DEC-10 17:10:39
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	77.36 of which	18.85 named and	58.51	unnamed
Conc:	154.73 of which	37.71 named and	117.02	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	22:31	1.67	y	11.75	203781	4.9	y	n
						121949	8.3	y	n
	2	22:45	1.53	y	54.97	920398	15.0	y	n
						603037	25.1	y	n
	3	23:44	1.43	y	27.52	449143	6.4	y	n
						313586	8.2	y	n
	4	24:07	1.26	n	8.68	146227	3.6	y	n
						115906	7.2	y	n
1,2,3,7,8-PeCDF	5	24:17	1.40	y	26.65	438740	9.0	y	n
						313043	14.4	y	n
	6	24:54	1.59	y	14.10	239605	3.8	y	n
						151068	6.0	y	n
2,3,4,7,8-PeCDF	7	25:47	1.49	y	11.06	180140	3.9	y	y
						120847	6.0	y	n

P3A

					27551	1.968	n	n
	2	19:24	2.441	n	2.684	69880	4.156	y	n
						28632	1.891	n	n
	3	21:00	1.698	y	13.865 ✓	241856	11.752	y	n
						142417	8.576	y	n

Run Text: MA8DT-1-AA Sample text: MA8DT-1-AA :G0L110441-11

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:6
Run: 11 File: 15DE109D5 S:11 Acq:15-DEC-10 17:10:39
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	9.678 of which	1.129 named and	8.549	unnamed
Conc:	19.355 of which	2.258 named and	17.097	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	22:58	1.025	n	3.966	47477	2.855	n	n
						46307	5.785	y	n
	2	24:18	1.819	n	6.616 ✓	92966	5.227	y	n
						51098	6.675	y	n
	3	24:55	1.517	y	3.582	42523	3.170	y	n
						28024	3.538	y	n
	4	25:46	3.331	n	2.065	53136	3.450	y	n
						15952	2.114	n	n
	5	25:54	1.068	n	0.868	10389	0.851	n	n
						9724	1.708	n	n
1,2,3,7,8-PeCDD	6	26:35	1.021	n	2.258	27035	1.796	n	n
						26490	2.871	n	n

Run Text: MA8DT-1-AA Sample text: MA8DT-1-AA :G0L110441-11

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:11
Run: 11 File: 15DE109D5 S:11 Acq:15-DEC-10 17:10:39
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	123.018 of which	61.887 named and	61.131 unnamed
Conc:	246.035 of which	123.774 named and	122.261 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	30:17	1.277 y	30.471	344794	10.715	y	n
					270027	24.032	y	n
	2	30:32	1.181 y	51.673	564529	16.515	y	n
					478081	42.426	y	n
	3	30:46	1.422 y	3.032	35910	1.240	n	n
					25260	2.698	n	n
	4	30:59	0.984 n	7.560	84441	2.576	n	n
					85798	7.685	y	n
	5	31:11	0.728 n	5.700	63662	2.578	n	n
					87466	10.795	y	n
1,2,3,4,7,8-HxCDF	6	31:40	1.268 y	55.832	639732	22.555	y	n
					504569	52.750	y	n
1,2,3,6,7,8-HxCDF	7	31:47	1.310 y	35.452	434880	16.212	y	n
					331937	37.236	y	n
	8	31:54	1.052 n	11.741	131145	5.420	y	n
					124673	14.816	y	n
	9	32:07	1.055 y	12.085	125179	4.018	y	n
					118666	10.036	y	n
2,3,4,6,7,8-HxCDF	10	32:17	1.042 n	17.585	196777	5.423	y	n
					188801	15.441	y	n
1,2,3,7,8,9-HxCDF	11	33:04	1.130 y	14.905	145282	4.217	y	n
					128519	11.031	y	n

See P6A

Run Text: MA8DT-1-AA Sample text: MA8DT-1-AA :G0L110441-11

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:9
Run: 11 File: 15DE109D5 S:11 Acq:15-DEC-10 17:10:39
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	17.635 of which	4.130 named and	13.505 unnamed
Conc:	35.271 of which	8.260 named and	27.011 unnamed

Run Text: MA8DT-1-AA Sample text: MA8DT-1-AA :G0L110441-11

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? yes #Hom:13
Run: 11 File: 15DE109D5 S:11 Acq:15-DEC-10 17:10:39
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	121.05	of which	48.15	named and	72.90	unnamed			
Conc:	242.10	of which	96.30	named and	145.80	unnamed			

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	30:17	1.28	y	30.47	344794	10.7	y	n
						270027	24.0	y	n
	2	30:32	1.18	y	51.67	564529	16.5	y	n
						478081	42.4	y	n
	3	30:59	0.98	n	7.56	84441	2.6	n	n
						85798	7.7	y	n
	4	31:11	0.73	n	5.70	63662	2.6	n	n
						87465	10.8	y	n
	5	31:38	1.22	y	8.71	96535	11.0	y	y
						79272	23.3	y	y
1,2,3,4,7,8-HxCDF	6	31:40	1.26	y	47.22	540500	22.5	y	y
						427284	52.8	y	y
1,2,3,6,7,8-HxCDF	7	31:47	1.31	y	35.45	434880	16.2	y	n
						331937	37.2	y	n
	8	31:54	1.05	n	11.74	131145	5.4	y	n
						124673	14.8	y	n
	9	32:07	1.05	y	12.09	125179	4.0	y	n
						118666	10.0	y	n
	10	32:17	0.97	n	9.87	110275	5.4	y	y
						114052	15.4	y	y
2,3,4,6,7,8-HxCDF	11	32:20	1.16	y	7.94	86005	3.7	y	y
						74398	9.9	y	y
1,2,3,7,8,9-HxCDF	12	32:59	1.05	n	5.69	57906	2.7	n	y
						55253	7.4	y	y
	13	33:04	1.22	y	7.98	88459	4.2	y	y
						72644	11.0	y	y

P6A

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	31:07	0.725 n	1.453	15010	3.156	y	n
					20713	3.688	y	n
	2	31:41	1.073 y	10.499	101405	14.275	y	n
					94477	13.469	y	n
	3	31:46	0.690 n	6.314	65208	10.487	y	n
					94477	13.469	y	n
	4	31:56	1.132 y	5.354	53043	8.726	y	n
					46846	10.329	y	n
	5	32:19	3.185 n	1.897	50329	10.810	y	n
					15801	4.353	y	n
1,2,3,4,7,8-HxCDD	6	32:29	1.242 y	2.001	19884	4.871	y	n
					16013	3.835	y	n
1,2,3,6,7,8-HxCDD	7	32:34	1.260 y	3.475	36175	7.671	y	n
					28720	7.017	y	n
1,2,3,7,8,9-HxCDD	8	32:49	1.280 y	2.784	30251	6.393	y	n
					23636	5.060	y	n
	9	32:59	3.837 n	1.494	47730	8.826	y	n
					12440	2.628	n	n

See P7A

Run Text: MA8DT-1-AA Sample text: MA8DT-1-AA :G0L110441-11

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4
Run: 11 File: 15DE109D5 S:11 Acq:15-DEC-10 17:10:39
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	131.692 of which	90.202 named and	41.491 unnamed
Conc:	263.385 of which	180.403 named and	82.981 unnamed

✓

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	34:18	1.110 y	132.774	1919460	150.277	y	n
					1729090	193.402	y	n
	2	34:29	0.980 y	32.944	415542	31.920	y	n
					423963	47.424	y	n
	3	34:35	1.029 y	50.038	646576	50.090	y	n
					628521	69.246	y	n
1,2,3,4,7,8,9-HpCDF	4	35:24	1.099 y	47.630	585703	45.860	y	n
					532937	58.493	y	n

Run Text: MA8DT-1-AA Sample text: MA8DT-1-AA :G0L110441-11

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? yes #Hom:7
Run: 11 File: 15DE109D5 S:11 Acq:15-DEC-10 17:10:39
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D

Amount:	13.42 of which	4.13 named and	9.29 unnamed
Conc:	26.83 of which	8.26 named and	18.57 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	31:41	1.57	n	7.76	101405	14.3	y	n
						64607	13.5	y	y
	2	31:46	2.20	n	3.56	65208	10.5	y	n
						29671	5.6	y	y
	3	31:56	1.13	y	5.35	53043	8.7	y	n
						46846	10.3	y	n
	4	32:19	3.19	n	1.90	50329	10.8	y	n
						15801	4.4	y	n
1,2,3,4,7,8-HxCDD	5	32:29	1.24	y	2.00	19884	4.9	y	n
						16013	3.8	y	n
1,2,3,6,7,8-HxCDD	6	32:34	1.26	y	3.47	36176	7.7	y	n
						28720	7.0	y	n
1,2,3,7,8,9-HxCDD	7	32:49	1.28	y	2.78	30251	6.4	y	n
						23636	5.1	y	n

13.60

Run Text: MA8DT-1-AA Sample text: MA8DT-1-AA :G0L110441-11

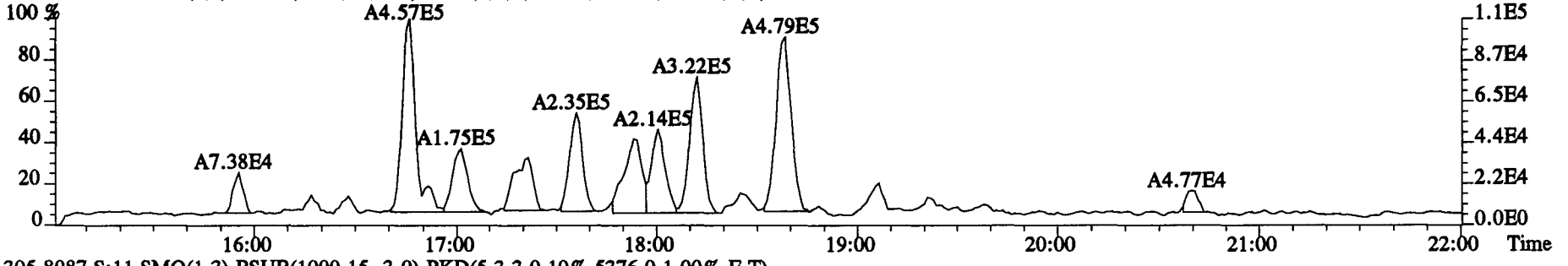
Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:5
Run: 11 File: 15DE109D5 S:11 Acq:15-DEC-10 17:10:39
Tables: Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D5

Amount:	13.491 of which	6.854 named and	6.637	unnamed
Conc:	26.983 of which	13.709 named and	13.274	unnamed

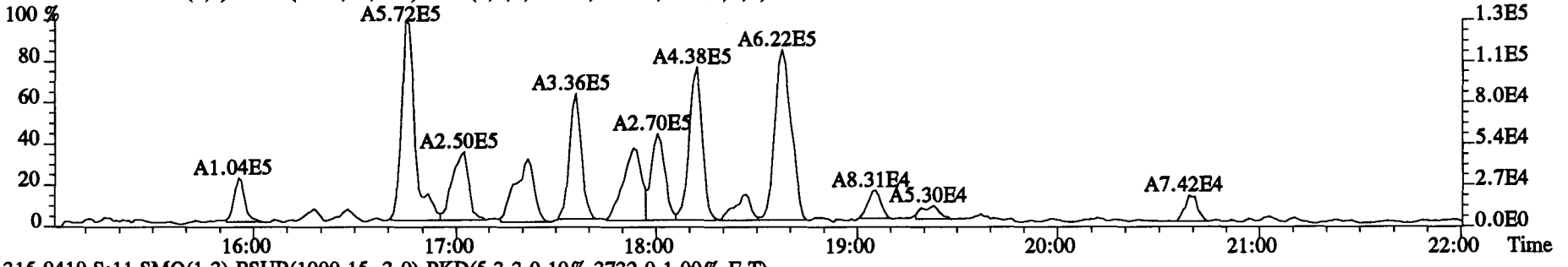
Name	#	R.T.	Ratio	Conc.		Area	S/N	>?	Mod?
	1	34:17	4.270 n	1.170		47586	12.756	y	n
						11145	4.382	y	n
	2	34:31	1.209 n	10.414	√	119967	30.291	y	n
						99210	28.933	y	n
	3	34:39	3.114 n	0.179		5305	1.543	n	n
						1704	0.815	n	n
1,2,3,4,6,7,8-HpCDD	4	35:05	1.011 y	13.709	√	133900	32.128	y	n
						132504	40.681	y	n
	5	35:23	3.329 n	1.511		47919	11.859	y	n
						14396	3.515	y	n

24.123

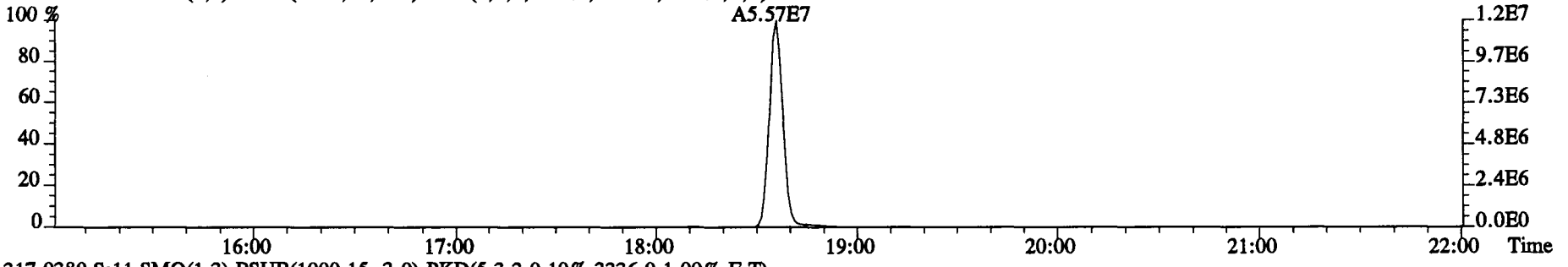
File:15DE109D5 #1-464 Acq:15-DEC-2010 17:10:39 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MA8DT-1-AA :G0L110441-11 Exp:DIOXINRES
303.9016 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9212.0,1.00%,F,T)



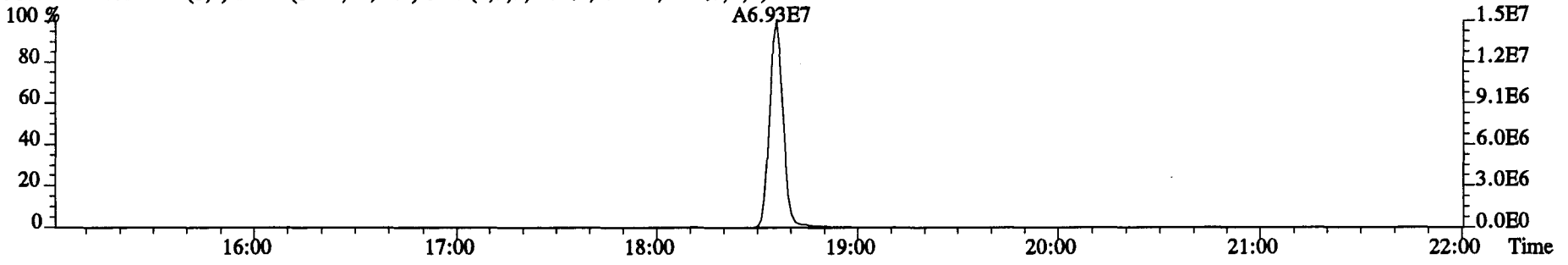
305.8987 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5376.0,1.00%,F,T)



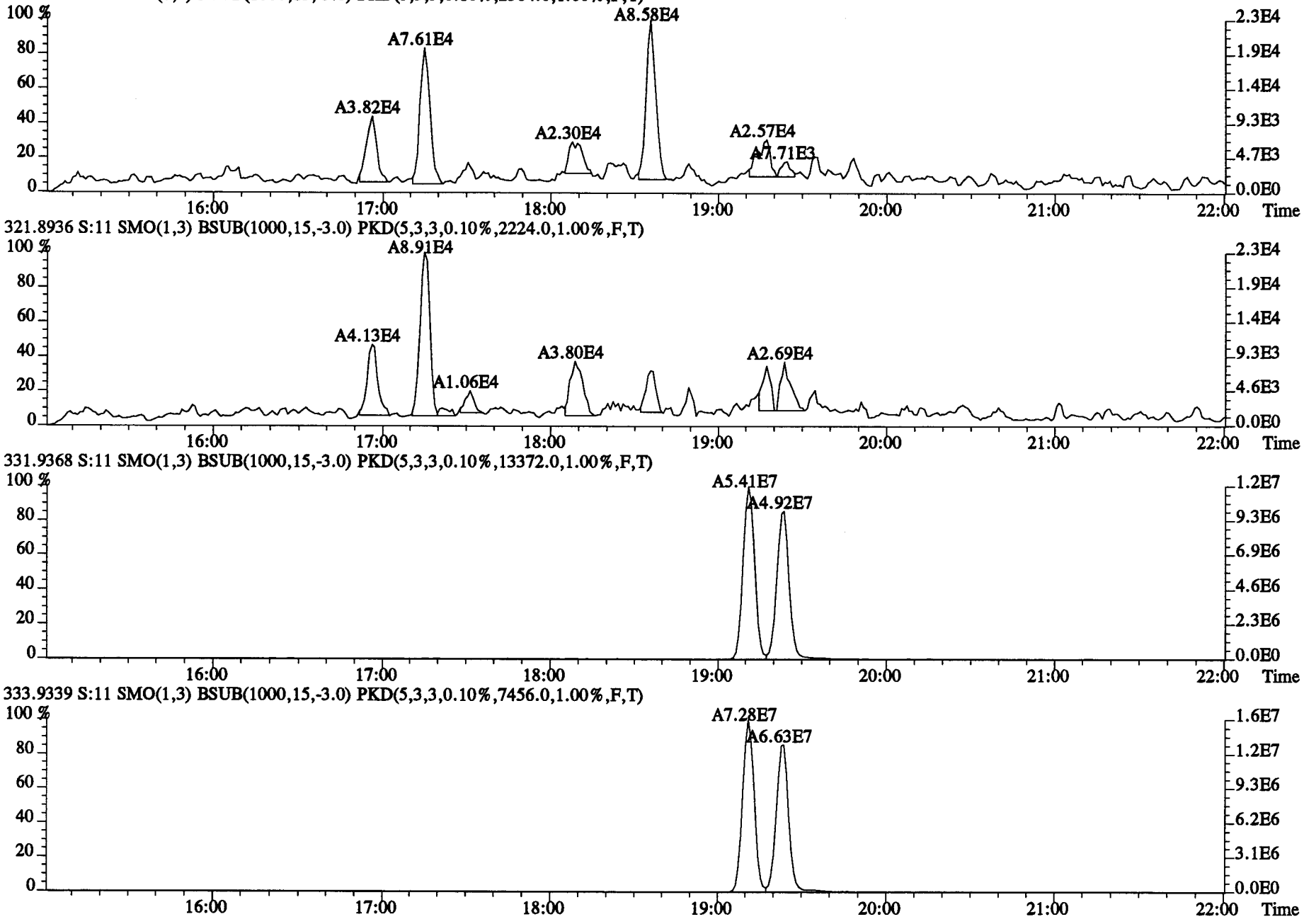
315.9419 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3732.0,1.00%,F,T)



317.9389 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3336.0,1.00%,F,T)

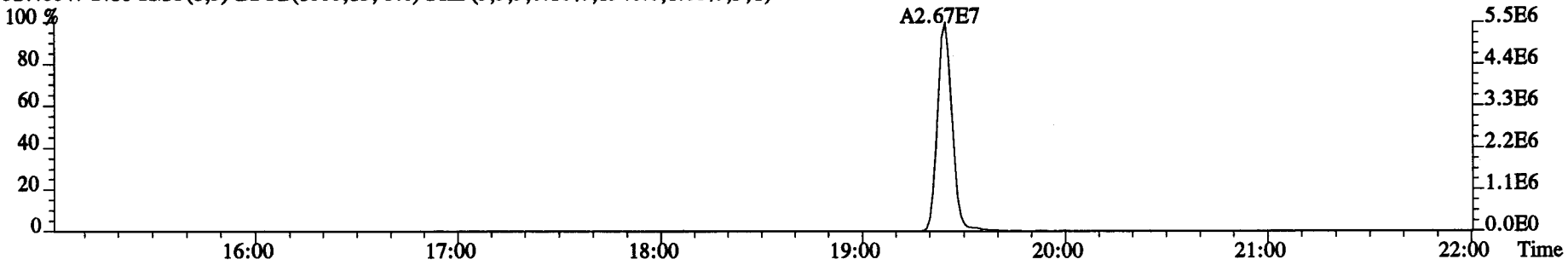


File:15DE109D5 #1-464 Acq:15-DEC-2010 17:10:39 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MA8DT-1-AA :G0L110441-11 Exp:DIOXINRES

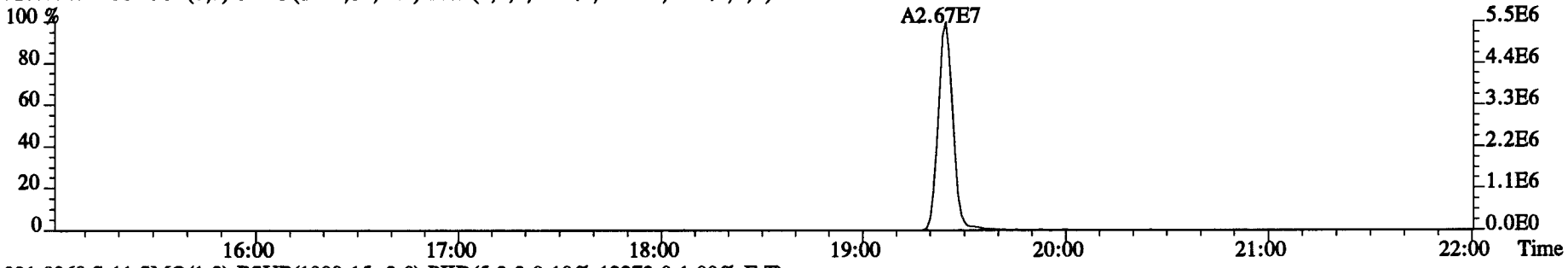


File:15DE109D5 #1-464 Acq:15-DEC-2010 17:10:39 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MA8DT-1-AA :G0L110441-11 Exp:DIOXINRES

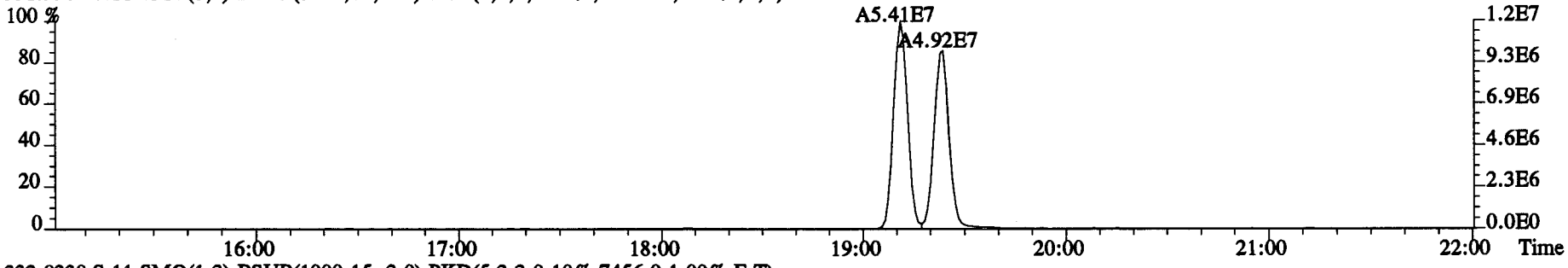
327.8847 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1940.0,1.00%,F,T)



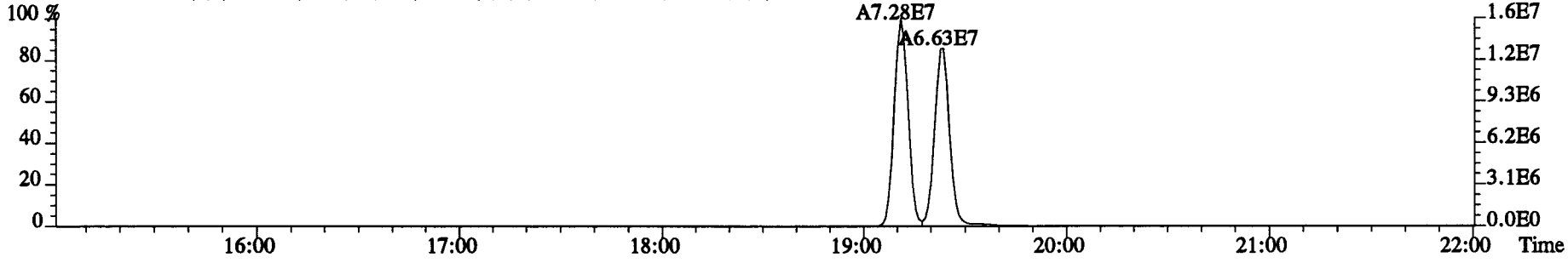
327.8847 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1940.0,1.00%,F,T)



331.9368 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13372.0,1.00%,F,T)

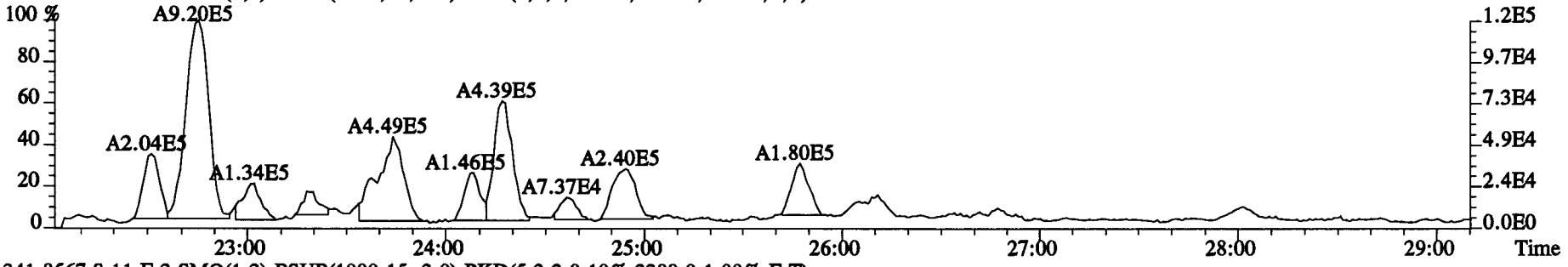


333.9339 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7456.0,1.00%,F,T)

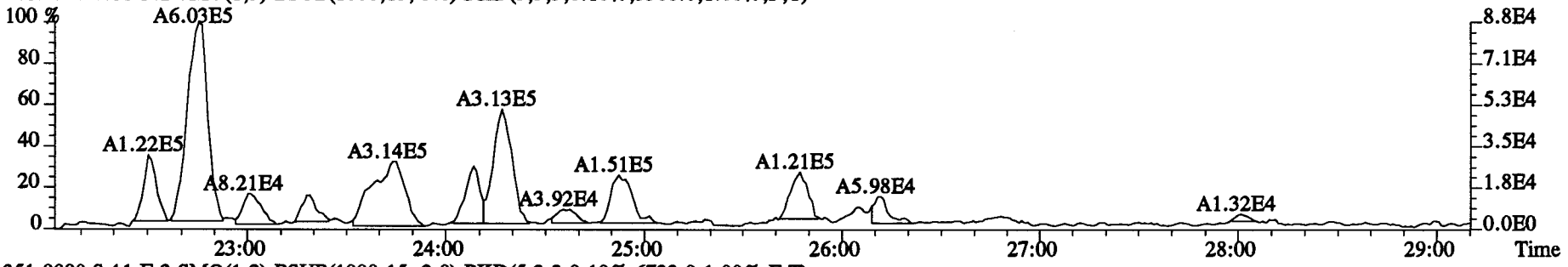


File:15DE109D5 #1-459 Acq:15-DEC-2010 17:10:39 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MA8DT-1-AA :G0L110441-11 Exp:DIOXINRES

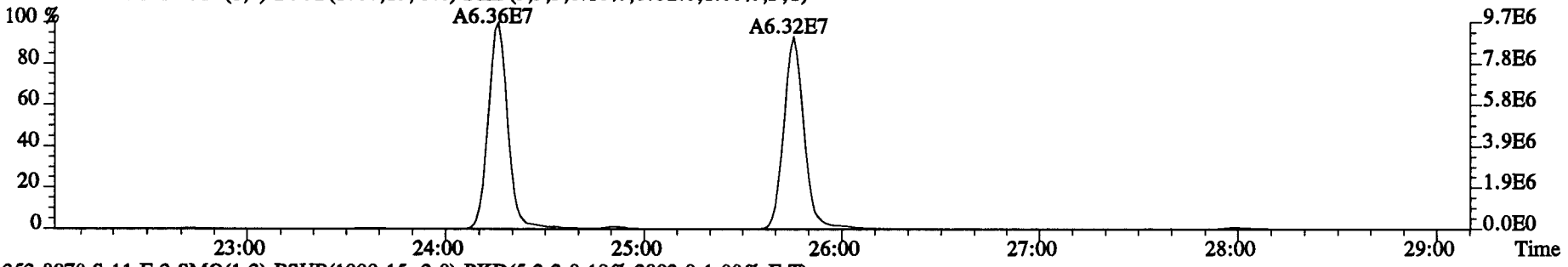
339.8597 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7716.0,1.00%,F,T)



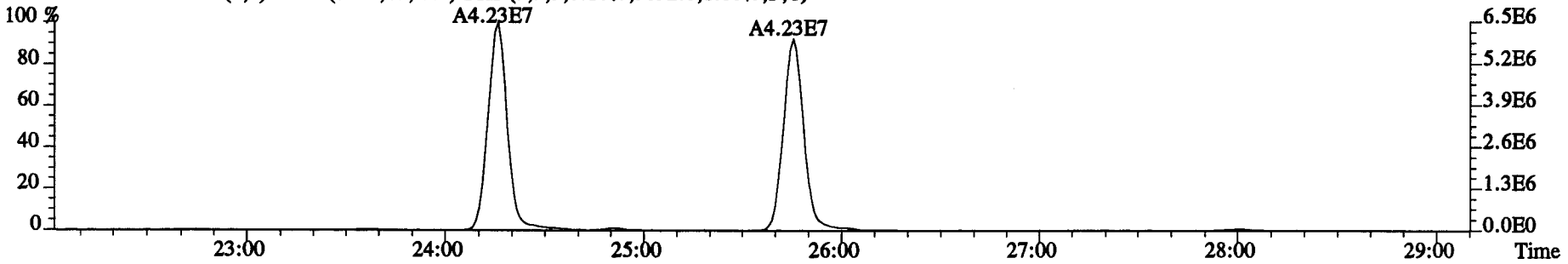
341.8567 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3388.0,1.00%,F,T)



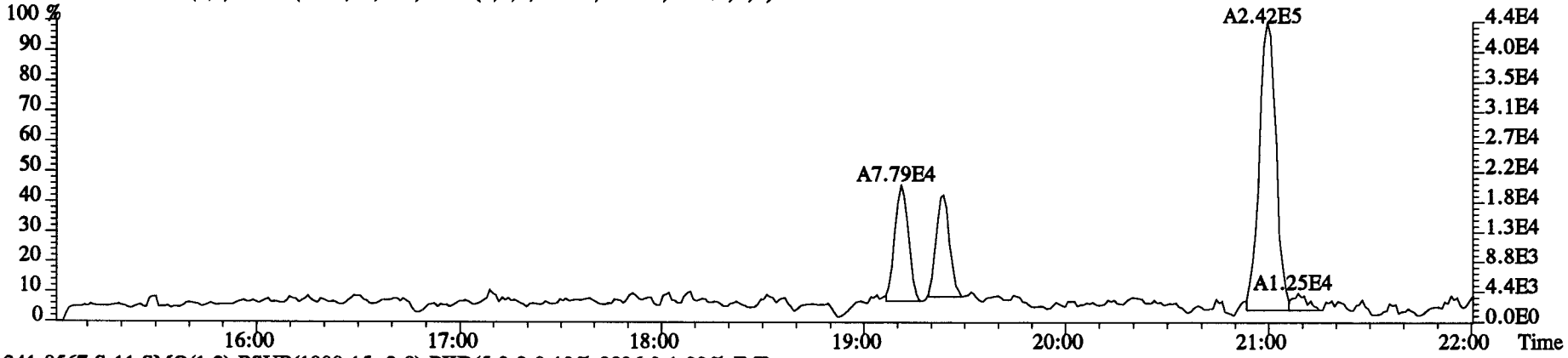
351.9000 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6732.0,1.00%,F,T)



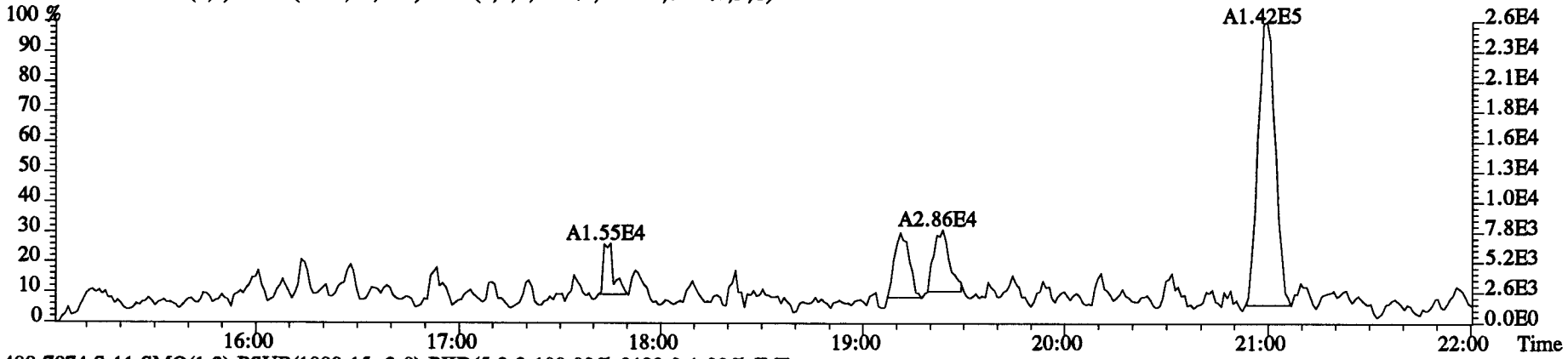
353.8970 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3892.0,1.00%,F,T)



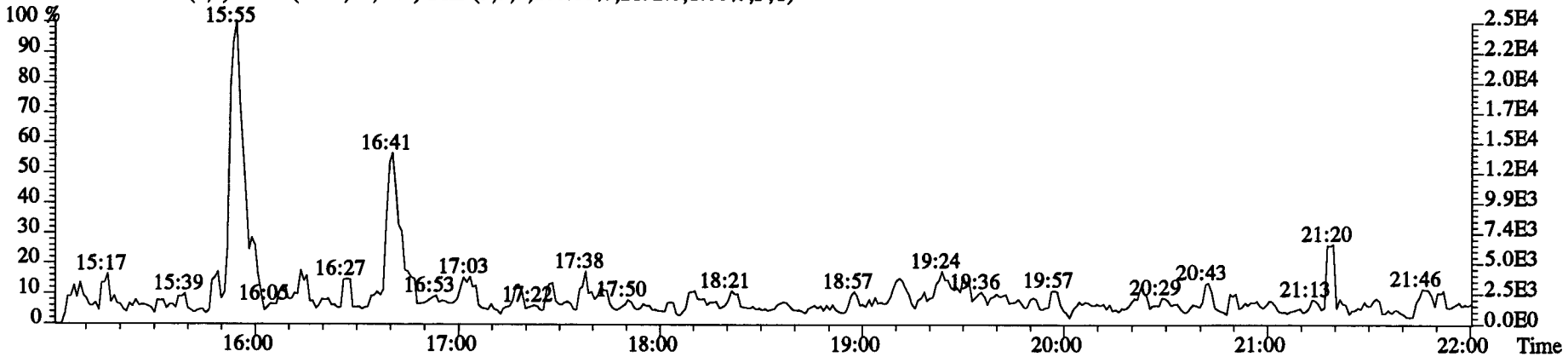
File:15DE109D5 #1-464 Acq:15-DEC-2010 17:10:39 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MA8DT-1-AA :G0L110441-11 Exp:DIOXINRES
339.8597 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3612.0,1.00%,F,T)



341.8567 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2836.0,1.00%,F,T)

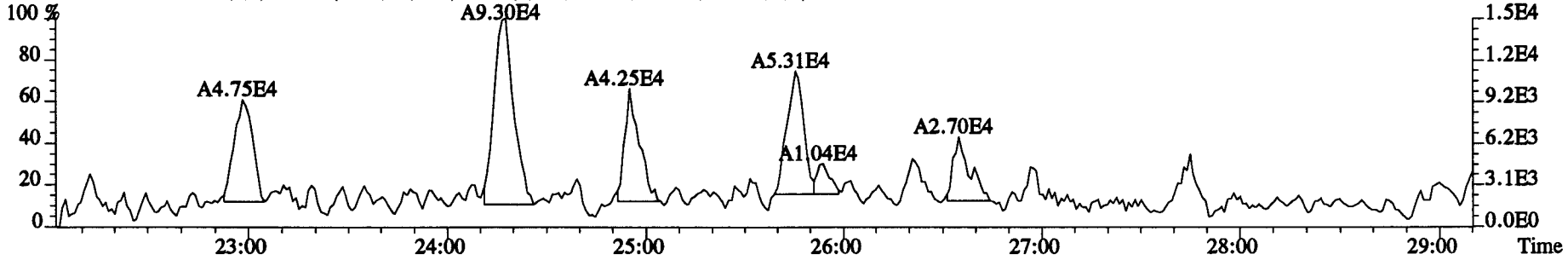


409.7974 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2132.0,1.00%,F,T)

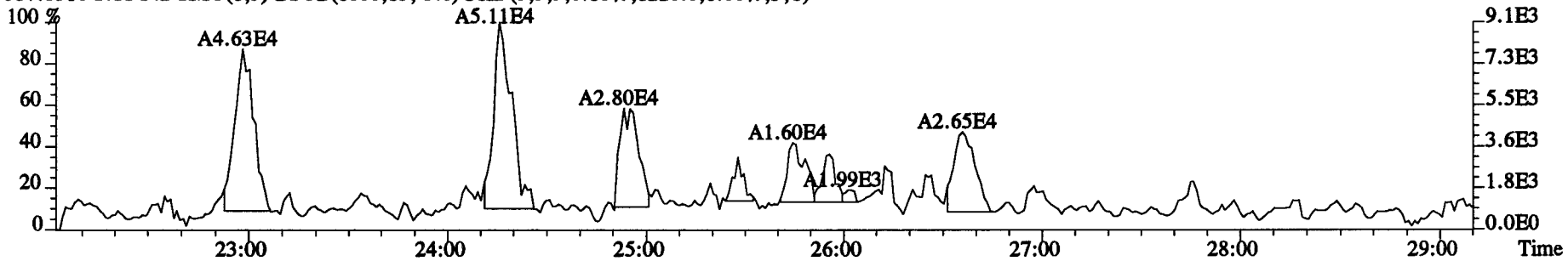


File:15DE109D5 #1-459 Acq:15-DEC-2010 17:10:39 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MA8DT-1-AA :G0L110441-11 Exp:DIOXINRES

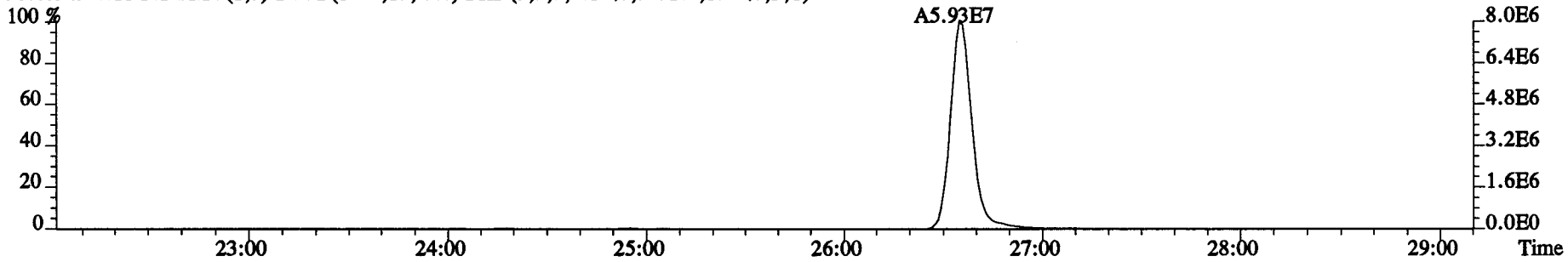
355.8546 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2632.0,1.00%,F,T)



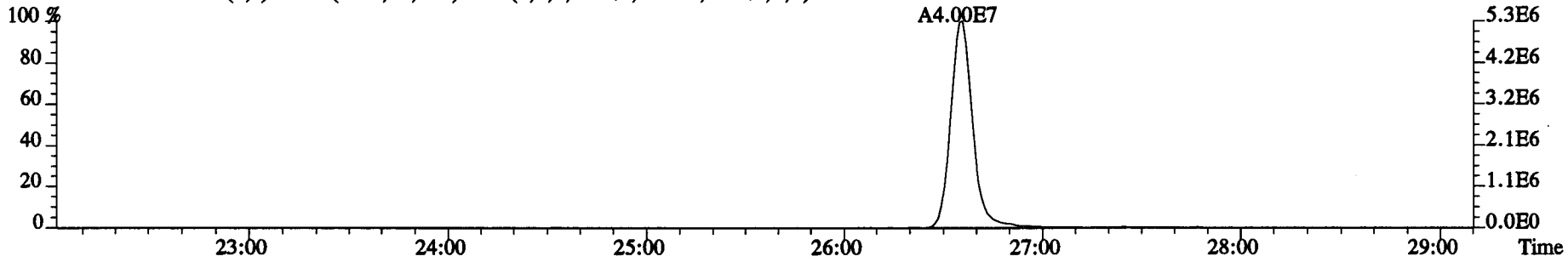
357.8516 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1228.0,1.00%,F,T)



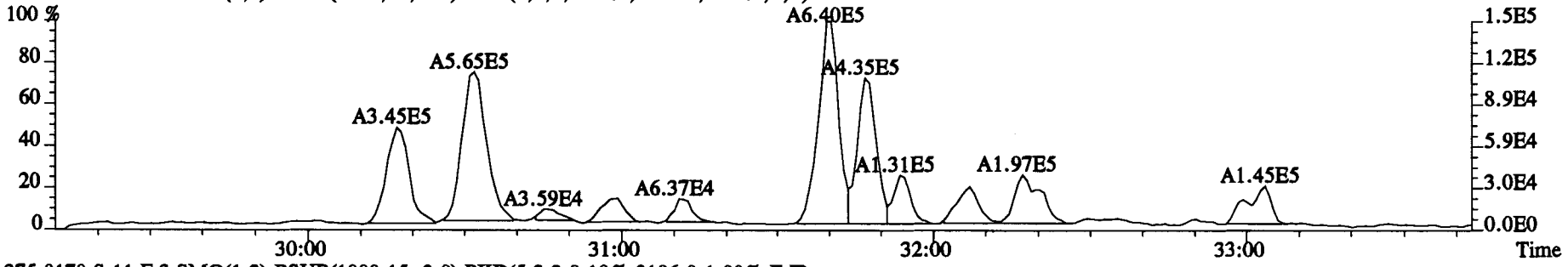
367.8949 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3092.0,1.00%,F,T)



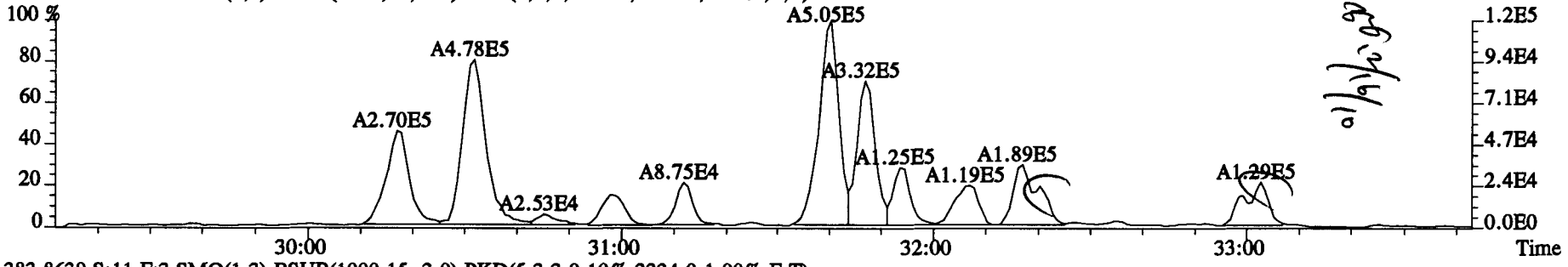
369.8919 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1660.0,1.00%,F,T)



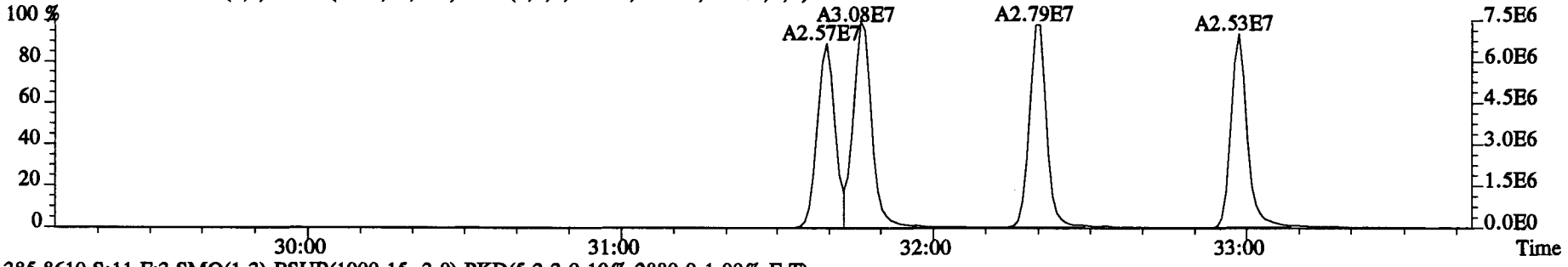
File:15DE109D5 #1-326 Acq:15-DEC-2010 17:10:39 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MA8DT-1-AA :G0L110441-11 Exp:DIOXINRES
373.8208 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6392.0,1.00%,F,T)



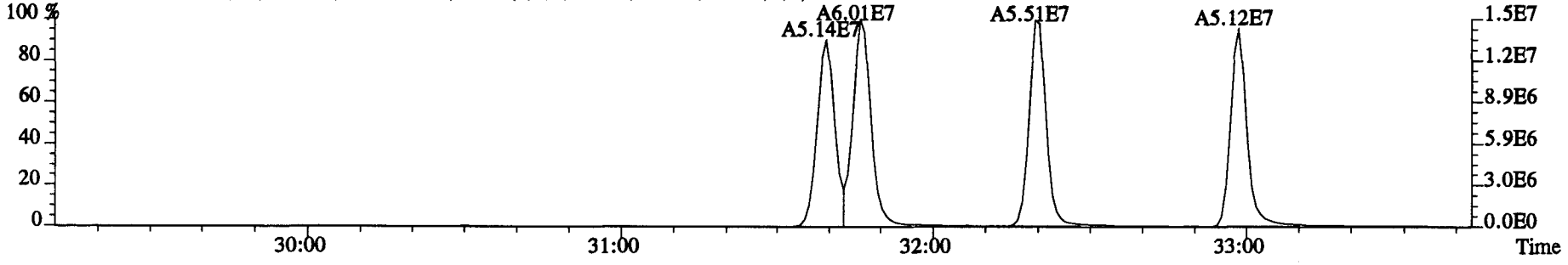
375.8178 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2196.0,1.00%,F,T)



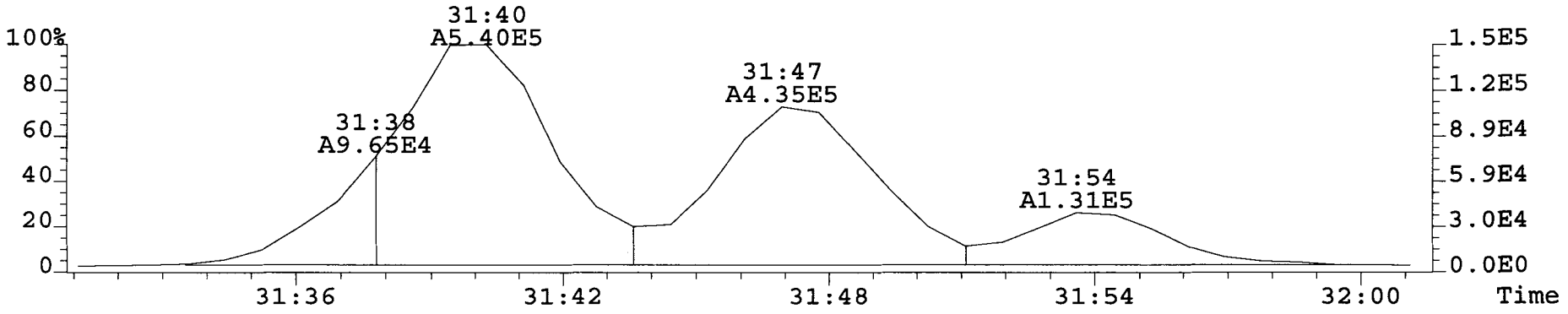
383.8639 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3324.0,1.00%,F,T)



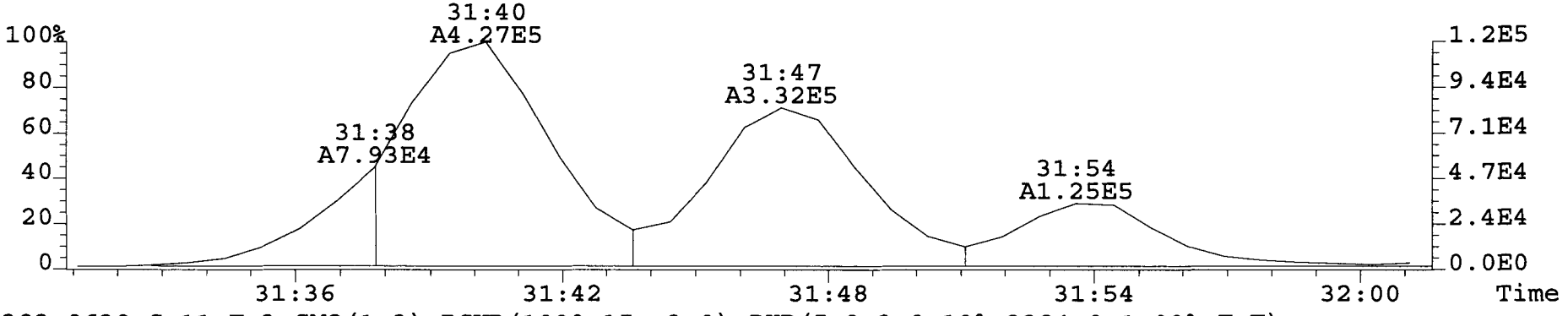
385.8610 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2880.0,1.00%,F,T)



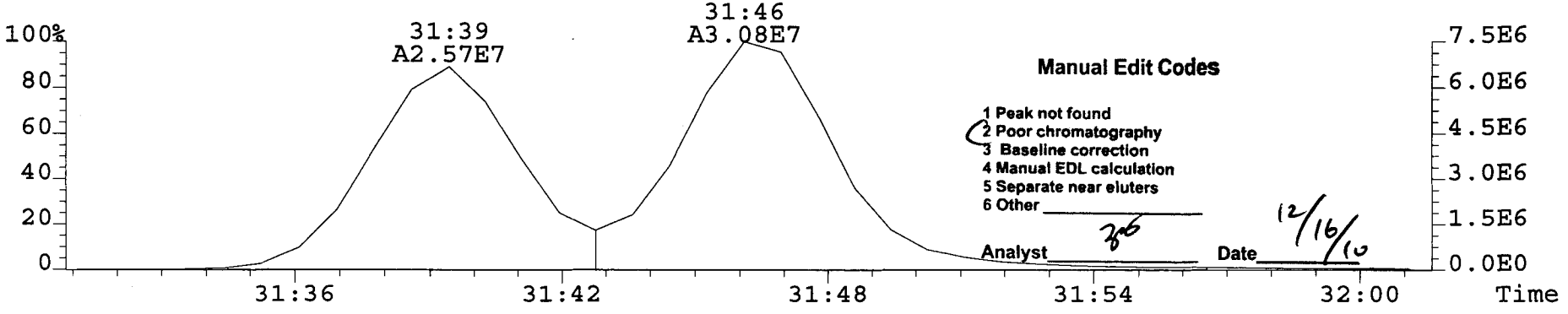
File:15DE109D5 #1-326 Acq:15-DEC-2010 17:10:39 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MA8DT-1-AA :G0L110441-11 Exp:DIOXINRES
373.8208 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6392.0,1.00%,F,T)



375.8178 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2196.0,1.00%,F,T)



383.8639 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3324.0,1.00%,F,T)

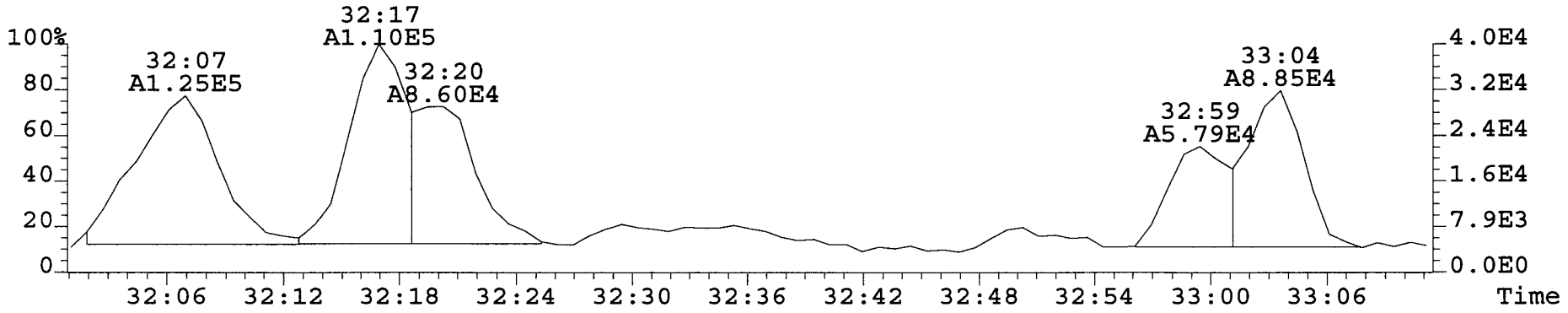


Manual Edit Codes

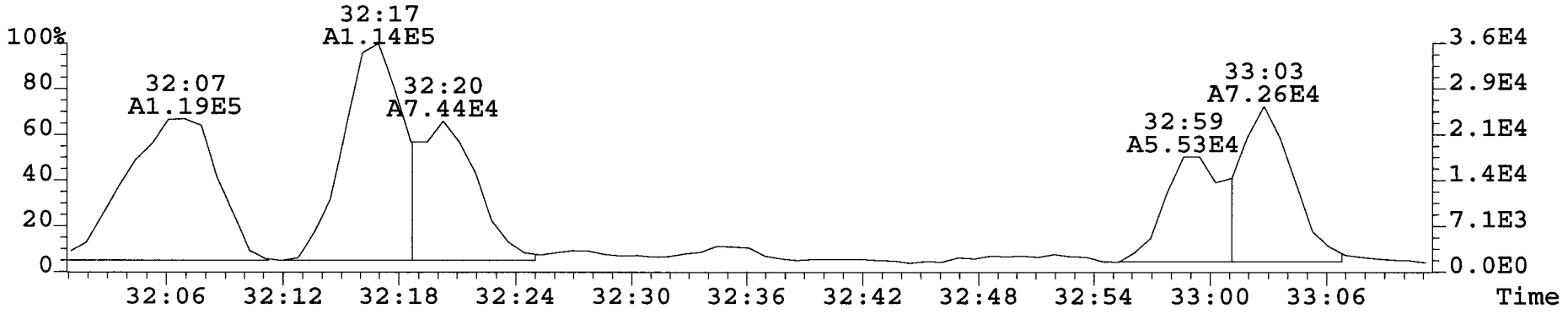
1 Peak not found
2 Poor chromatography
3 Baseline correction
4 Manual EDL calculation
5 Separate near eluters
6 Other _____

Analyst _____ Date 12/16/10

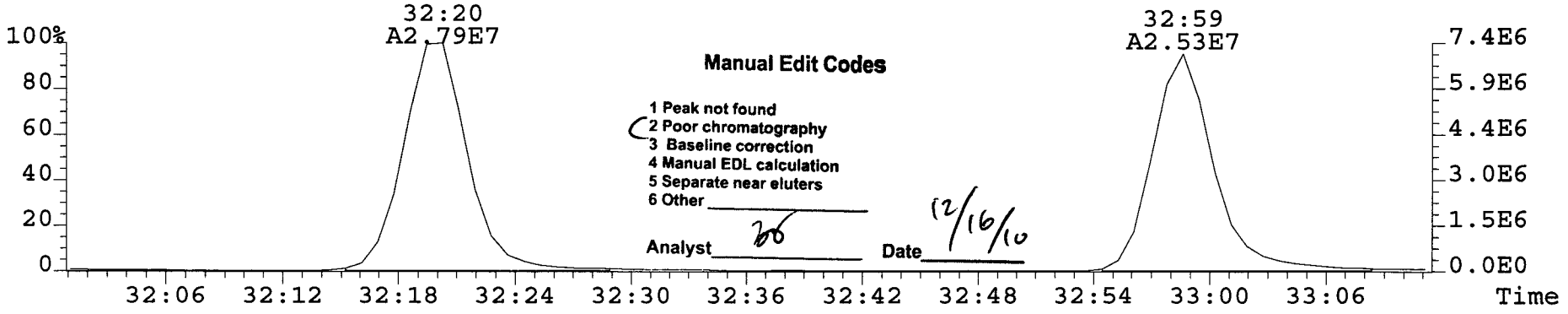
File:15DE109D5 #1-326 Acq:15-DEC-2010 17:10:39 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MA8DT-1-AA :G0L110441-11 Exp:DIOXINRES
373.8208 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6392.0,1.00%,F,T)



375.8178 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2196.0,1.00%,F,T)



383.8639 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3324.0,1.00%,F,T)



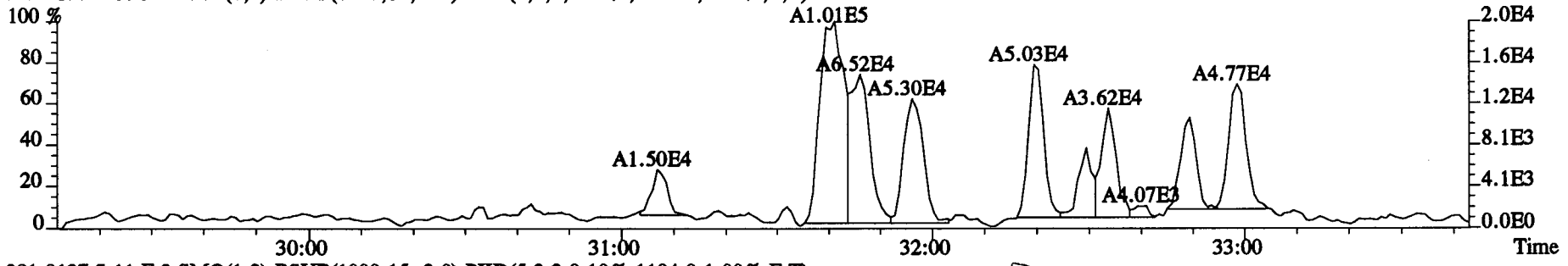
Manual Edit Codes

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

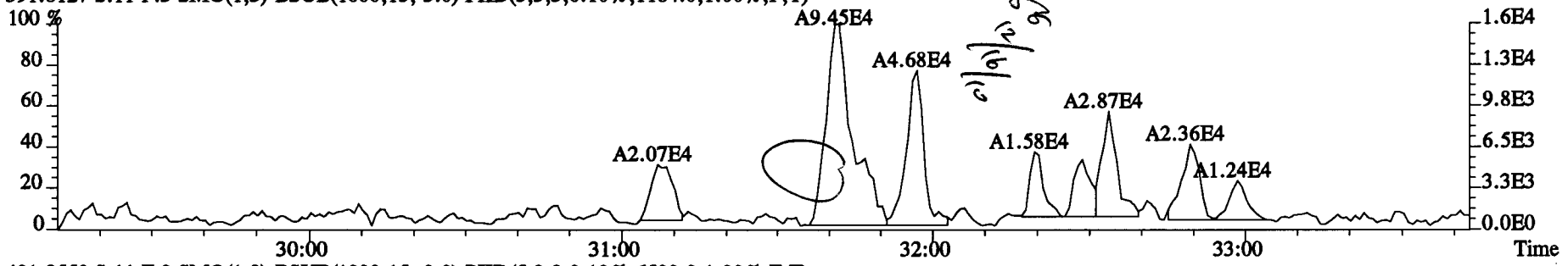
Analyst 66 Date 12/16/10

File:15DE109D5 #1-326 Acq:15-DEC-2010 17:10:39 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MA8DT-1-AA :G0L110441-11 Exp:DIOXINRES

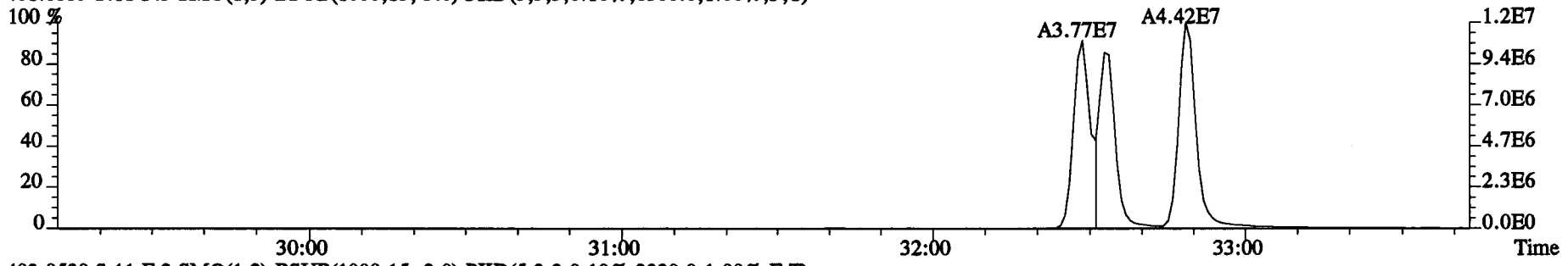
389.8157 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1392.0,1.00%,F,T)



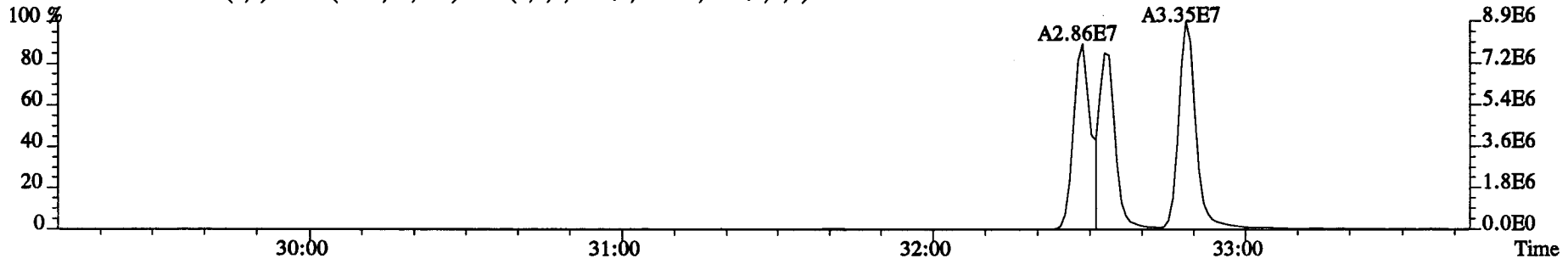
391.8127 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1184.0,1.00%,F,T)



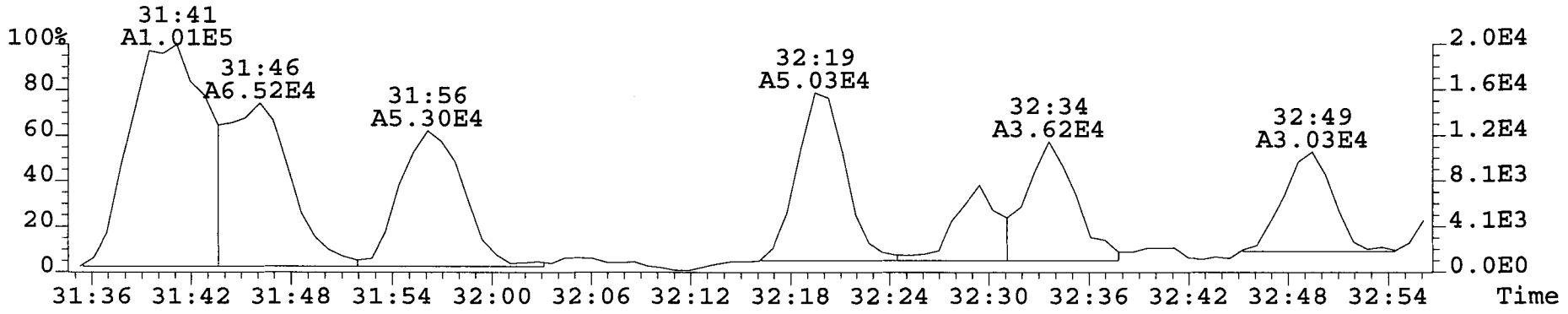
401.8559 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6500.0,1.00%,F,T)



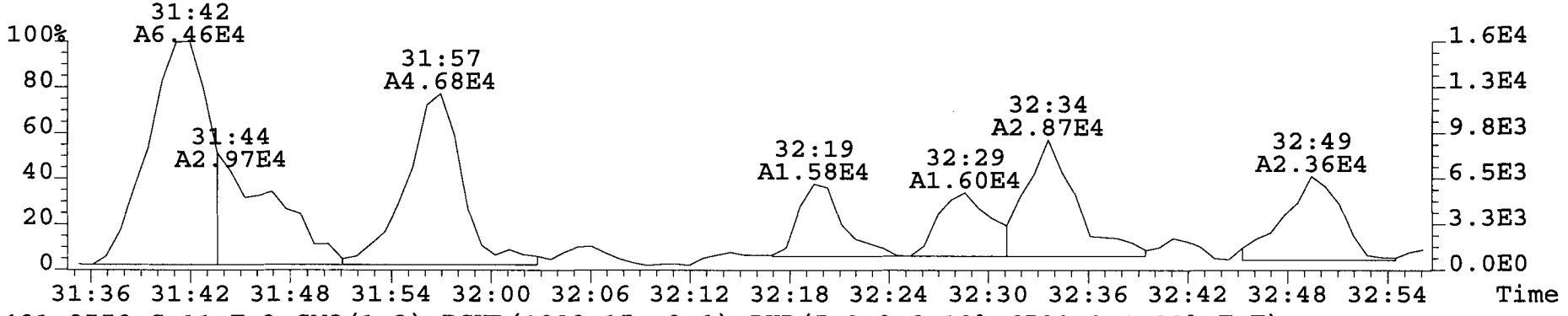
403.8529 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3220.0,1.00%,F,T)



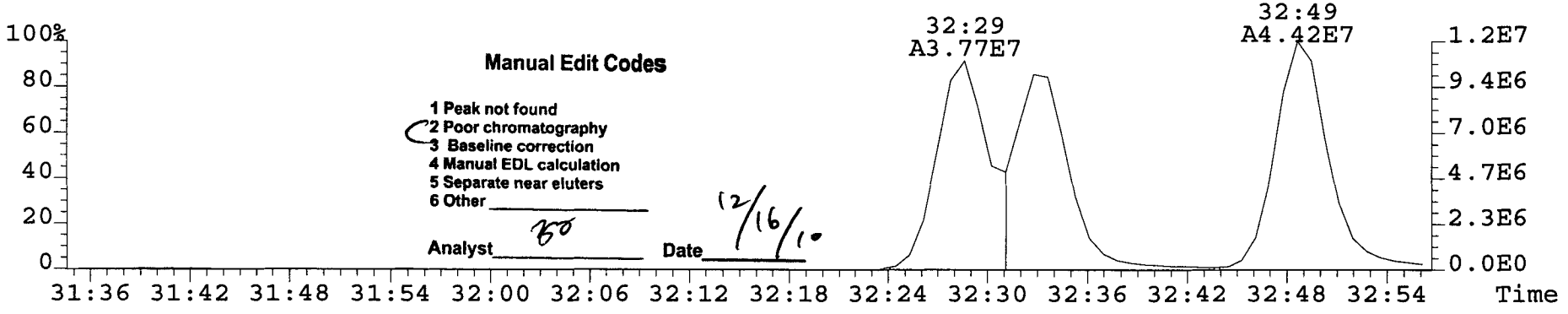
File:15DE109D5 #1-326 Acq:15-DEC-2010 17:10:39 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MA8DT-1-AA :G0L110441-11 Exp:DIOXINRES
389.8157 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1392.0,1.00%,F,T)



391.8127 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1184.0,1.00%,F,T)



401.8559 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6500.0,1.00%,F,T)

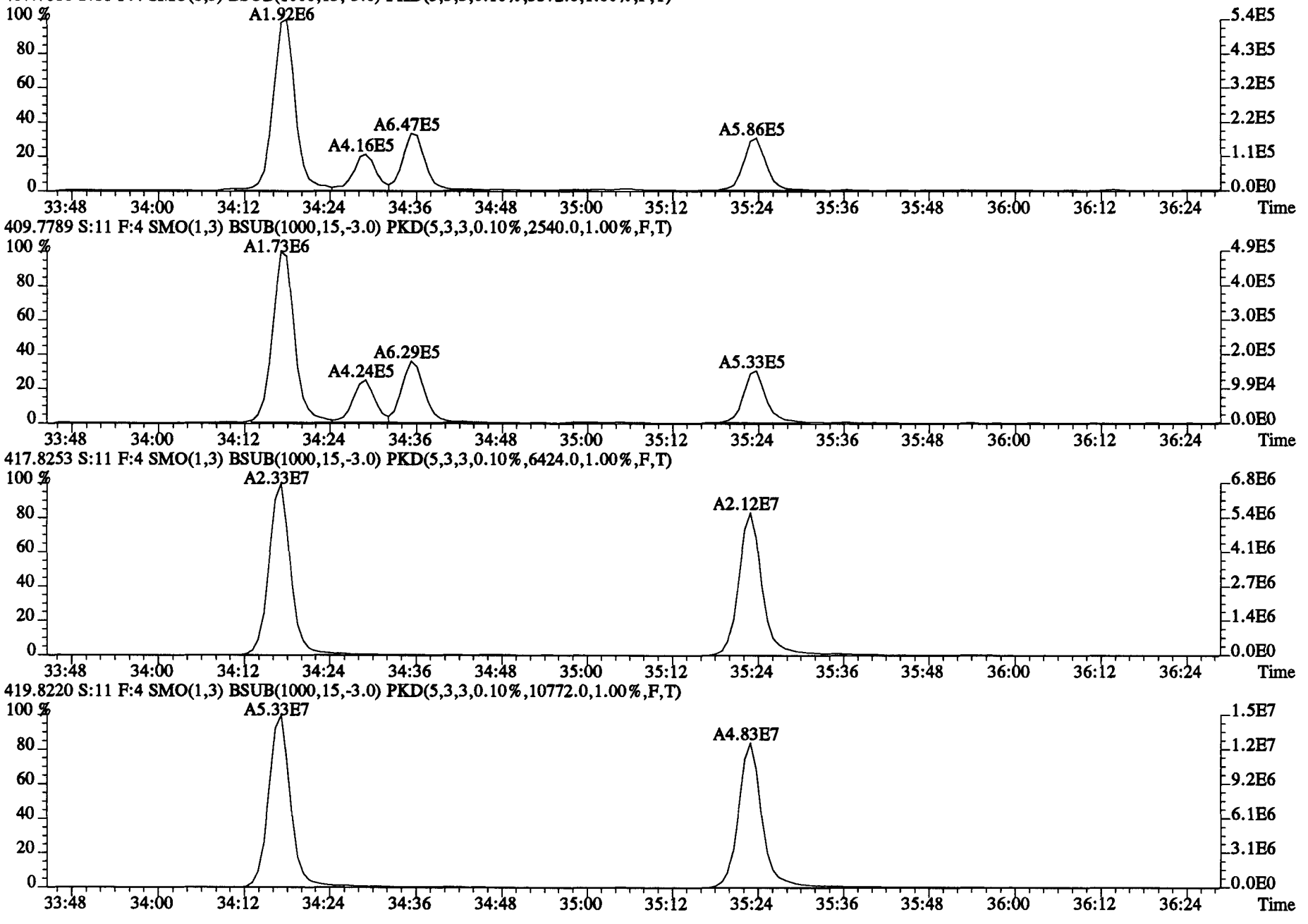


Manual Edit Codes

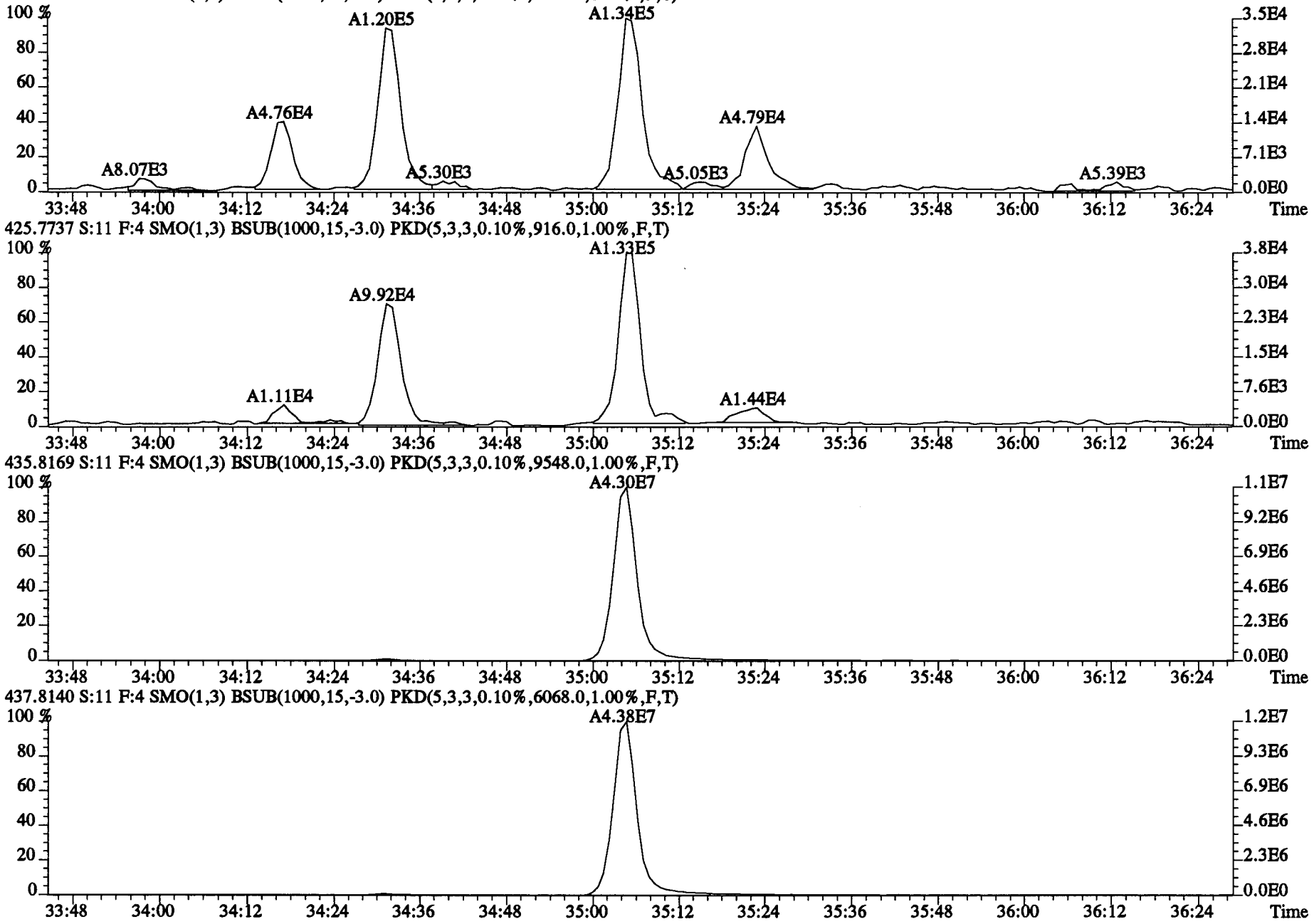
1 Peak not found
2 Poor chromatography
3 Baseline correction
4 Manual EDL calculation
5 Separate near eluters
6 Other _____

Analyst BO Date 12/16/10

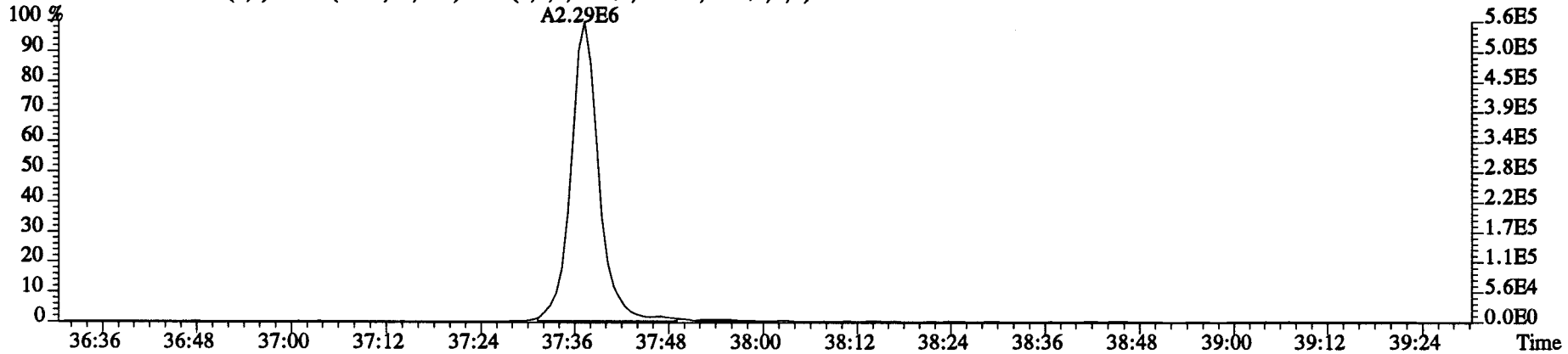
File:15DE109D5 #1-208 Acq:15-DEC-2010 17:10:39 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MA8DT-1-AA :G0L110441-11 Exp:DIOXINRES



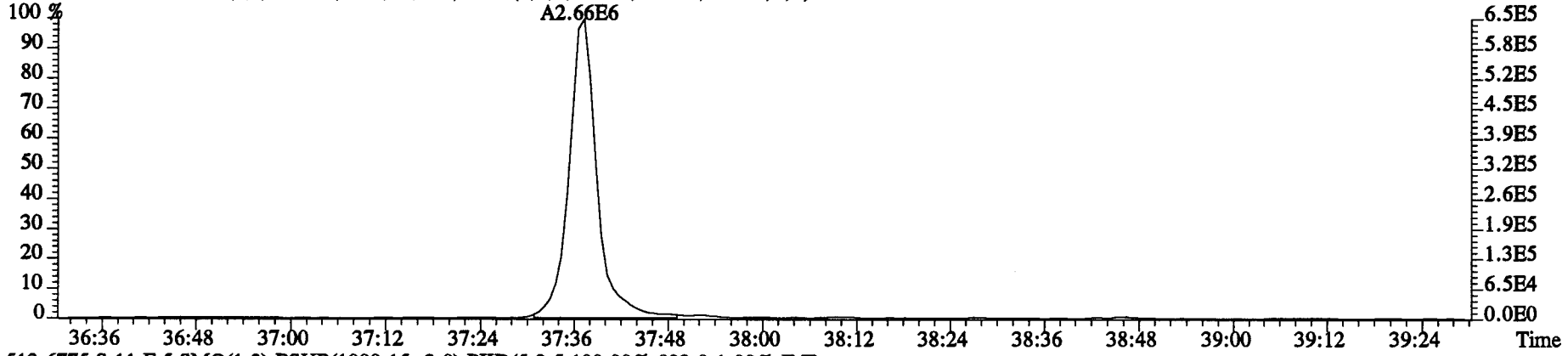
File:15DE109D5 #1-208 Acq:15-DEC-2010 17:10:39 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MA8DT-1-AA :G0L110441-11 Exp:DIOXINRES



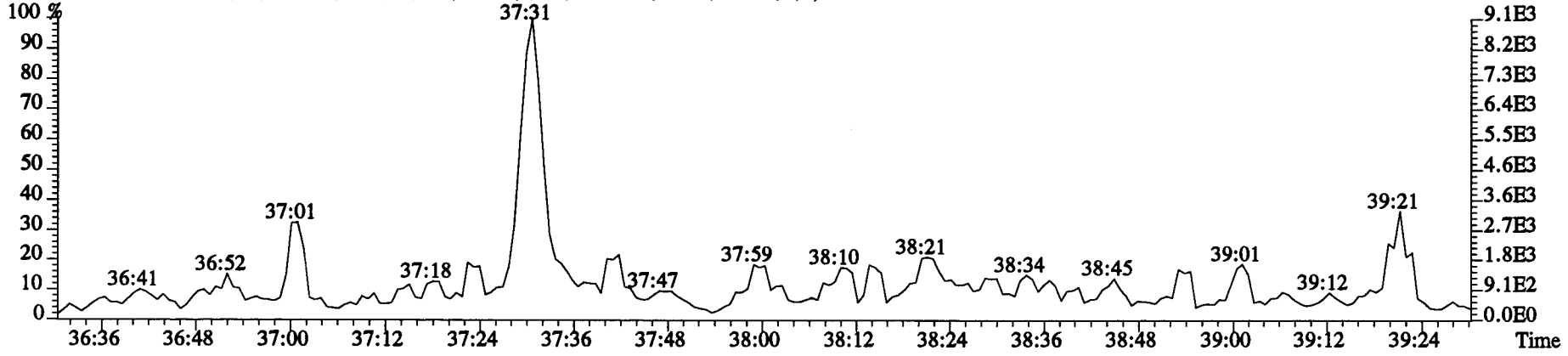
File:15DE109D5 #1-243 Acq:15-DEC-2010 17:10:39 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MA8DT-1-AA :G0L110441-11 Exp:DIOXINRES
441.7428 S:11 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1420.0,1.00%,F,T)



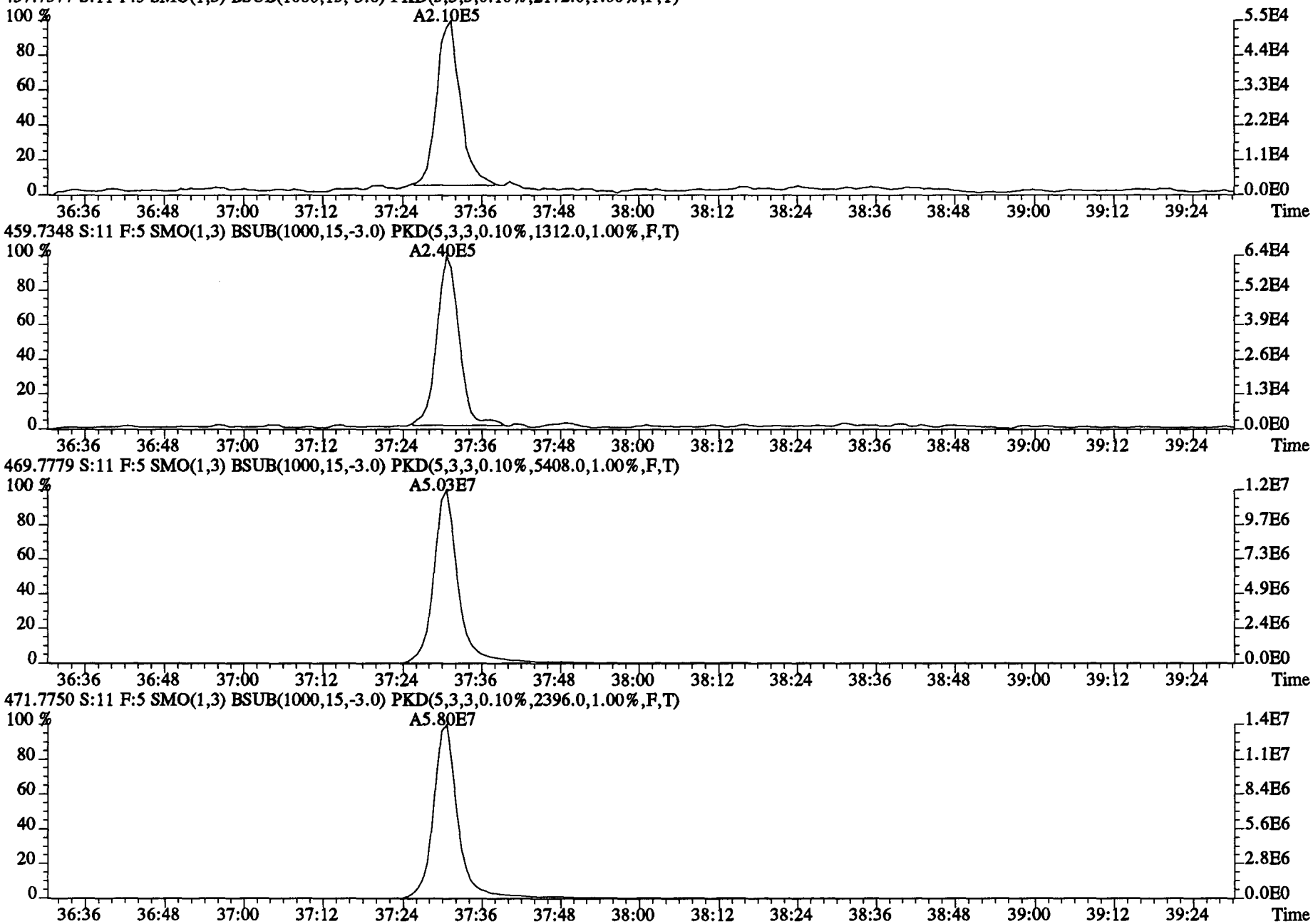
443.7399 S:11 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2740.0,1.00%,F,T)



513.6775 S:11 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,932.0,1.00%,F,T)

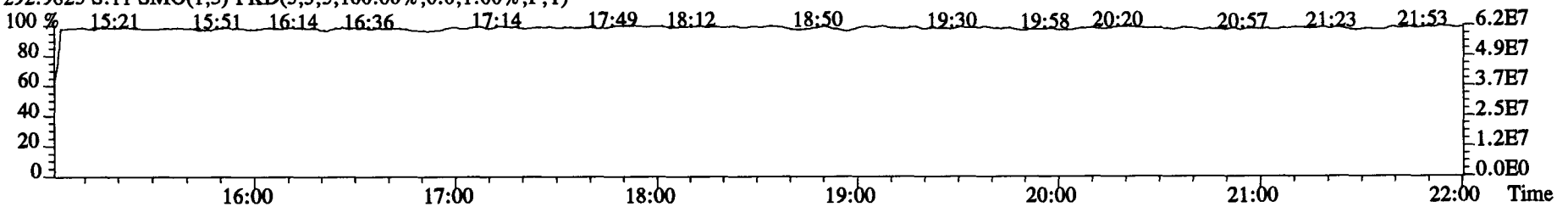


File:15DE109D5 #1-243 Acq:15-DEC-2010 17:10:39 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MA8DT-1-AA :G0L110441-11 Exp:DIOXINRES

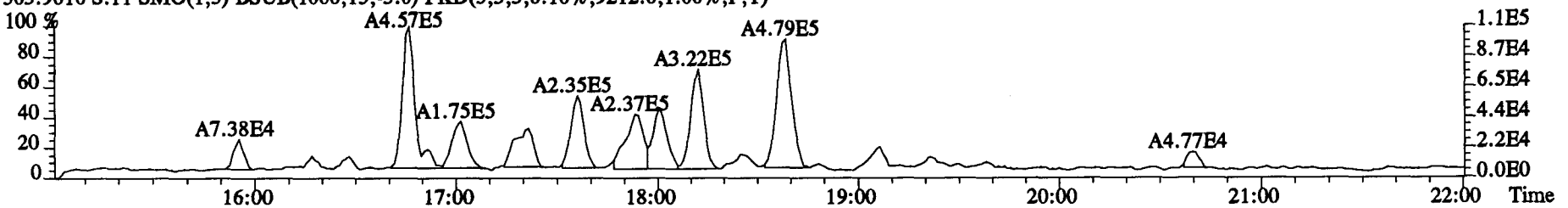


File:15DE109D5 #1-464 Acq:15-DEC-2010 17:10:39 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MA8DT-1-AA :G0L110441-11 Exp:DIOXINRES

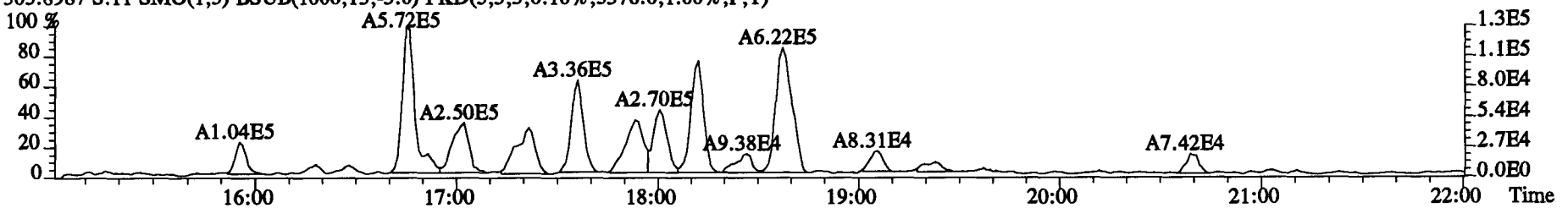
292.9825 S:11 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



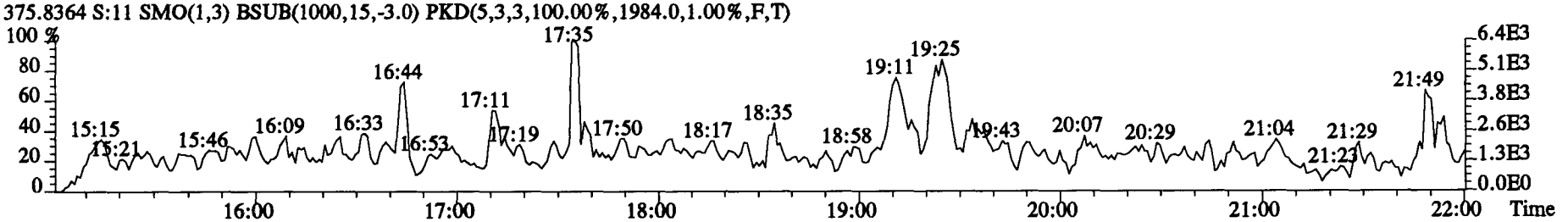
303.9016 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9212.0,1.00%,F,T)



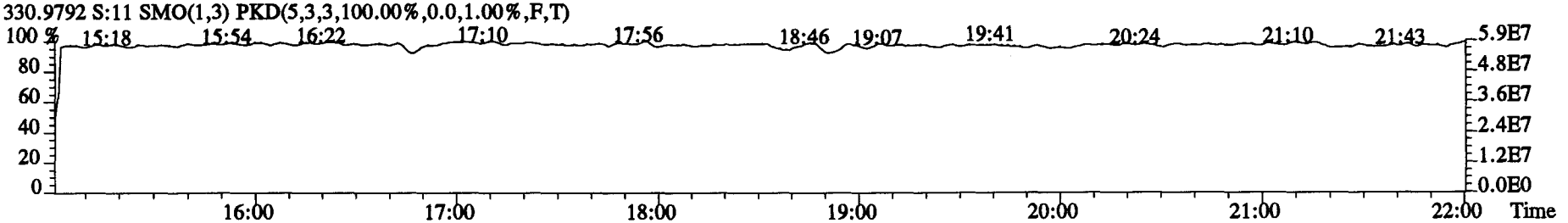
305.8987 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5376.0,1.00%,F,T)



375.8364 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1984.0,1.00%,F,T)

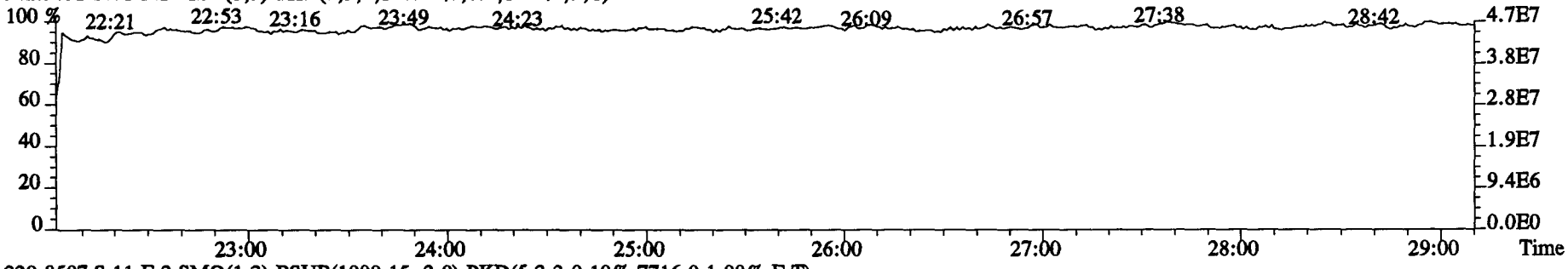


330.9792 S:11 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

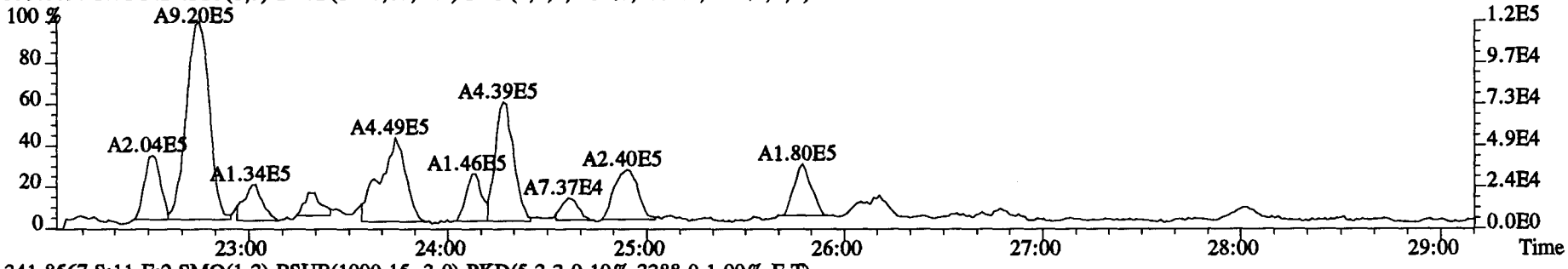


File:15DE109D5 #1-459 Acq:15-DEC-2010 17:10:39 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MA8DT-1-AA :G0L110441-11 Exp:DIOXINRES

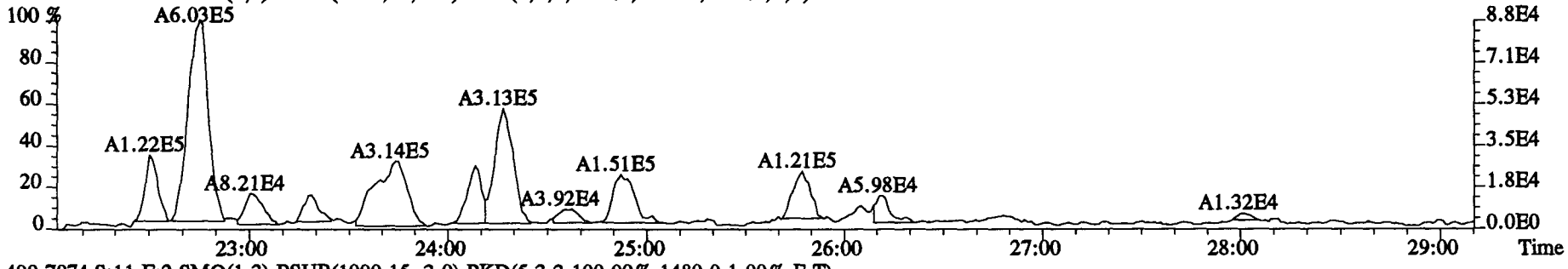
342.9792 S:11 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



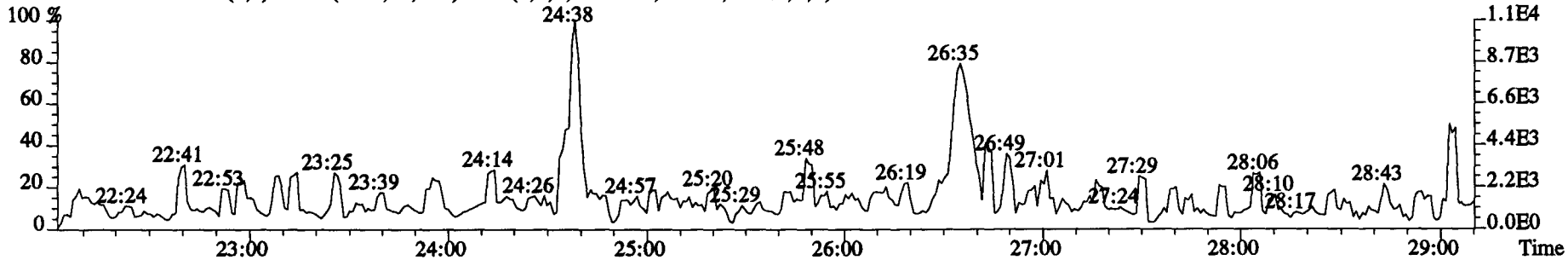
339.8597 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7716.0,1.00%,F,T)



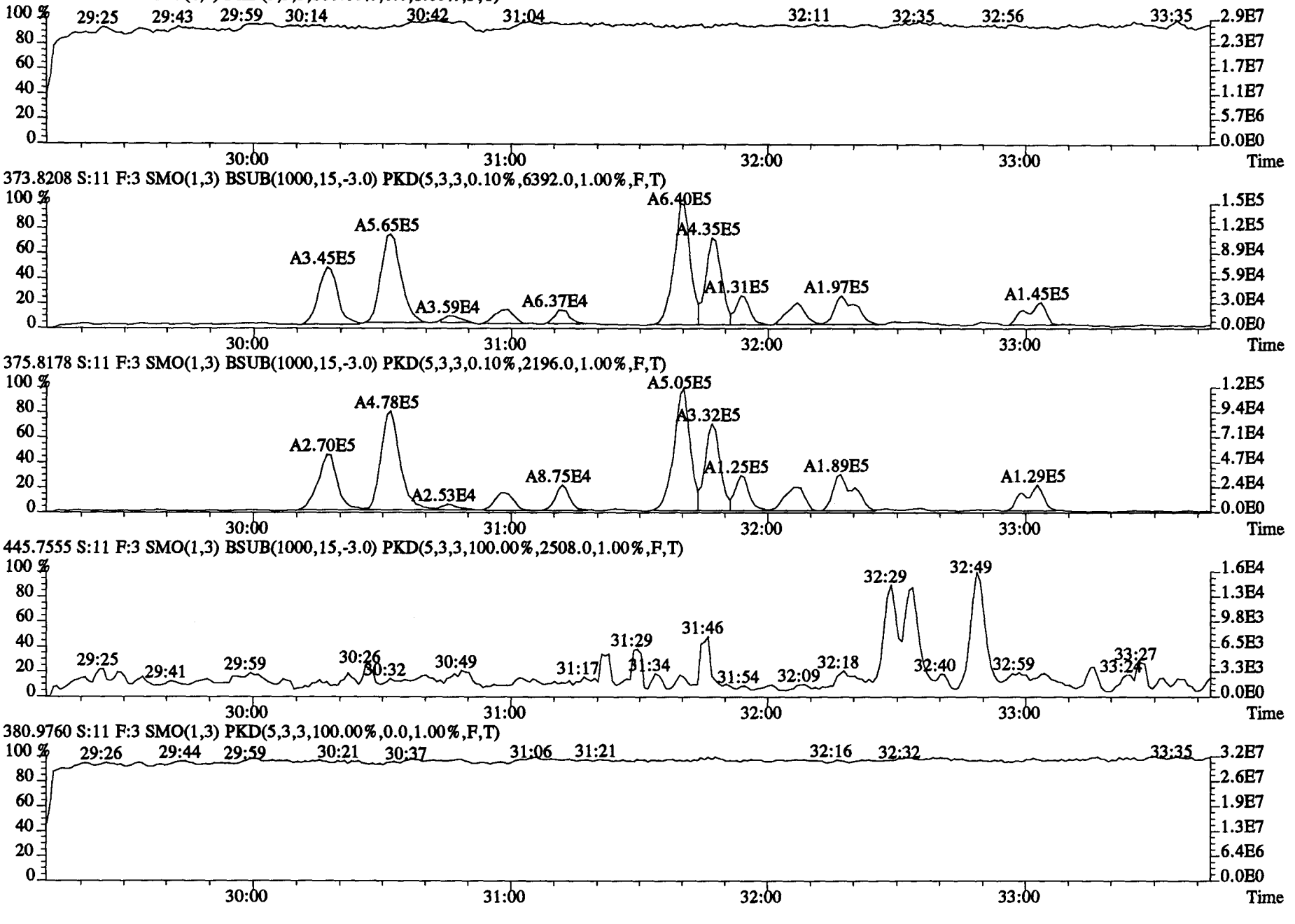
341.8567 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3388.0,1.00%,F,T)



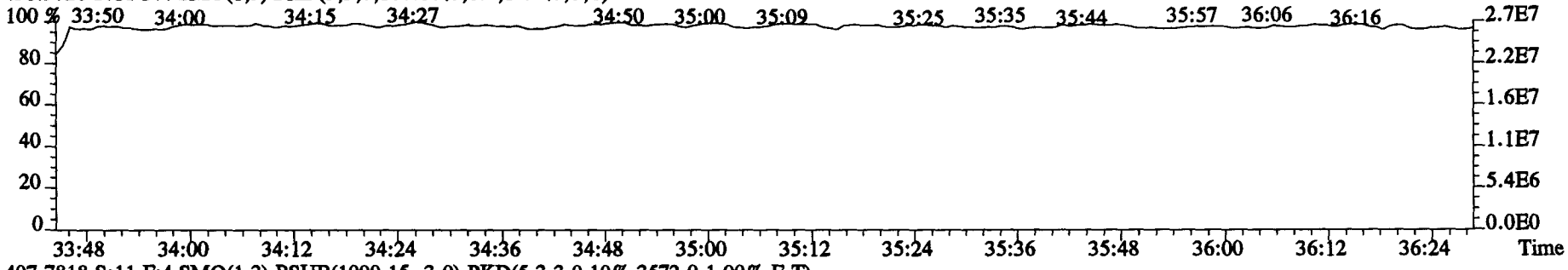
409.7974 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1480.0,1.00%,F,T)

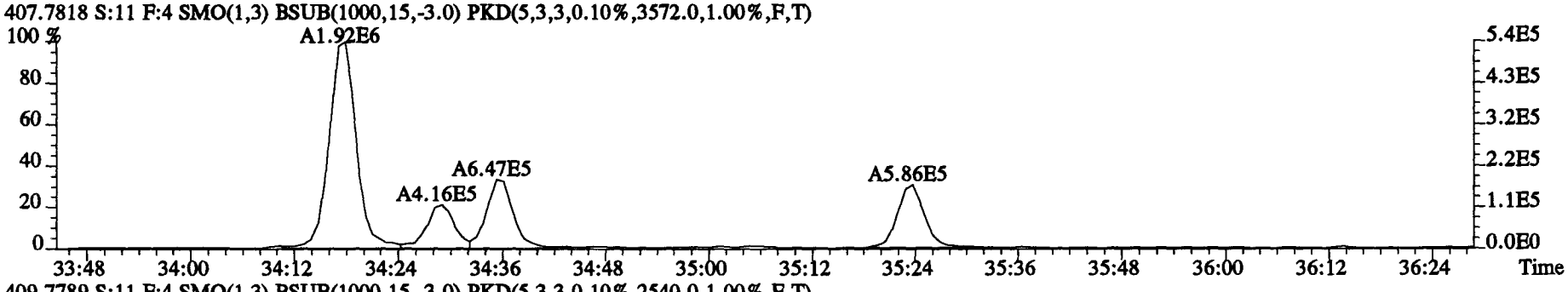


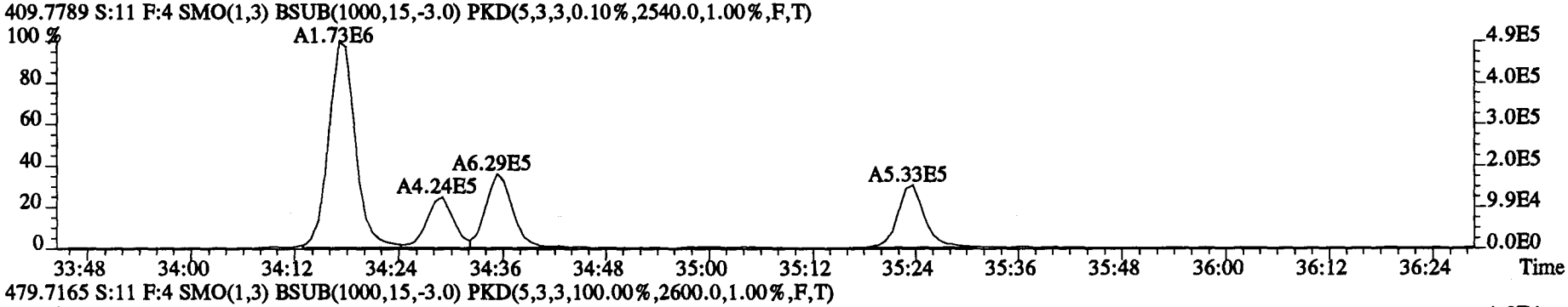
File:15DE109D5 #1-326 Acq:15-DEC-2010 17:10:39 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MA8DT-1-AA :G0L110441-11 Exp:DIOXINRES

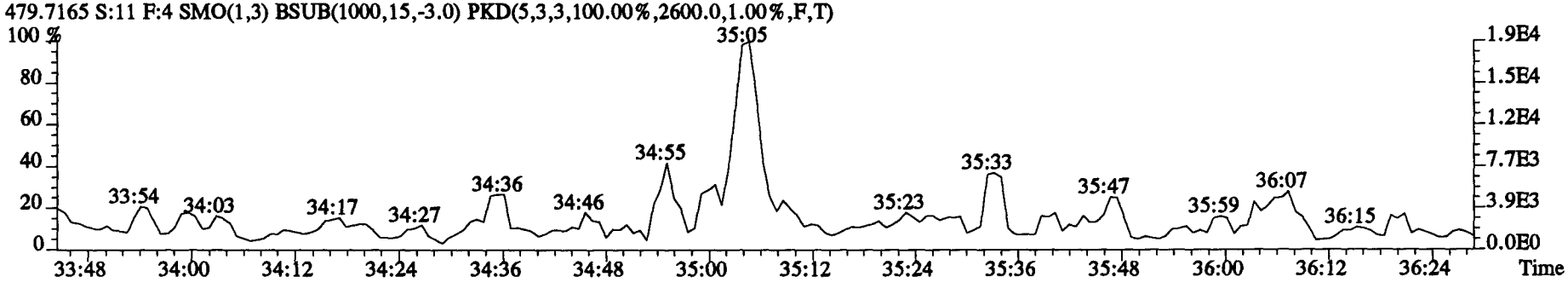


File:15DE109D5 #1-208 Acq:15-DEC-2010 17:10:39 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MA8DT-1-AA :G0L110441-11 Exp:DIOXINRES

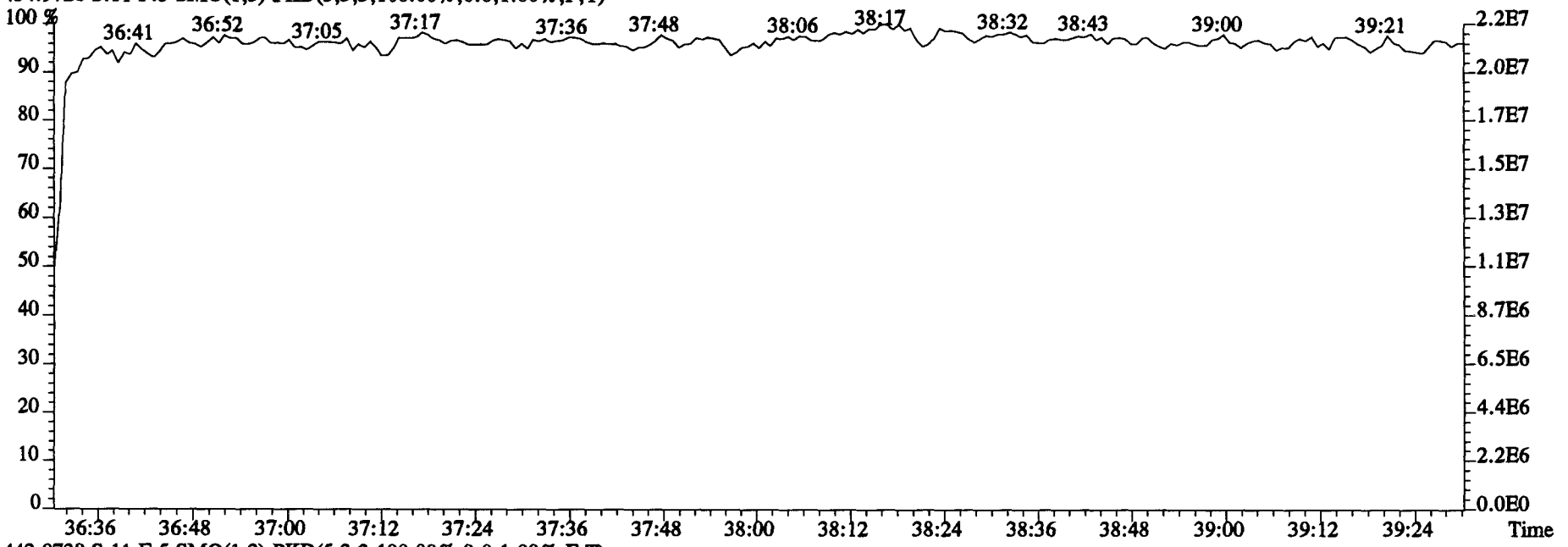




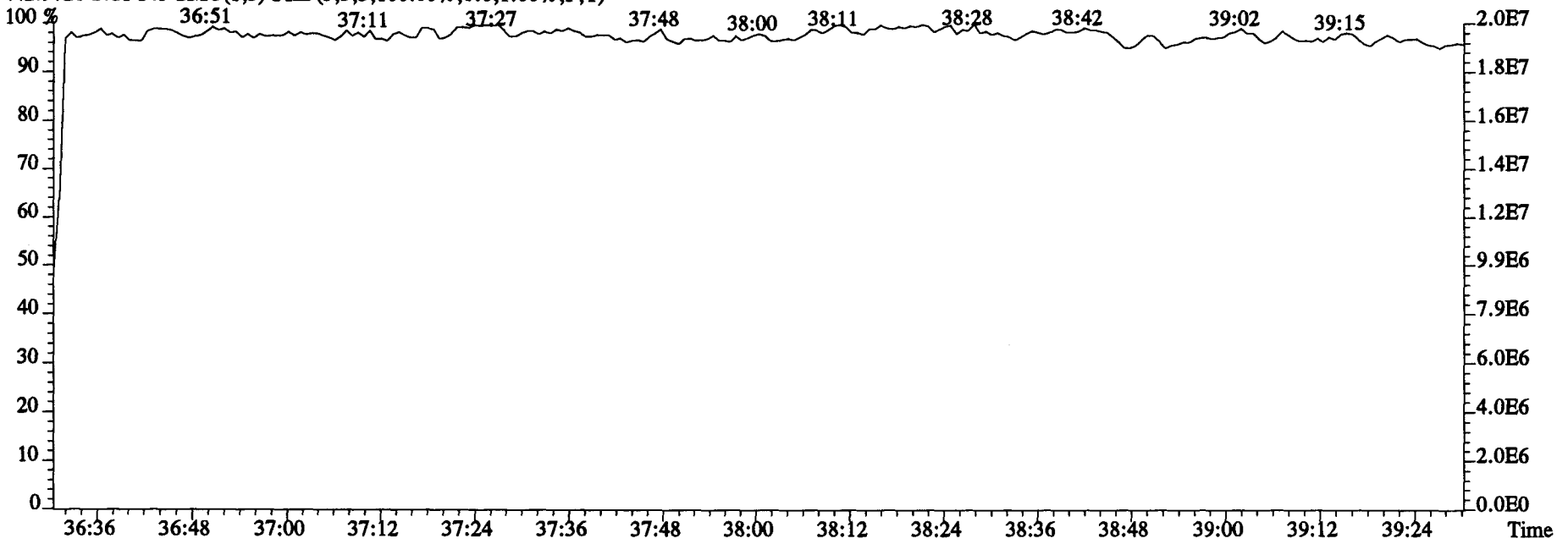




File:15DE109D5 #1-243 Acq:15-DEC-2010 17:10:39 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MA8DT-1-AA :G0L110441-11 Exp:DIOXINRES
454.9728 S:11 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:11 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: MA8DT-1-AA Sample text: MA8DT-1-AA :G0L110441-11
Run #8 Filename: 16DE10A5D2 S: 7 I: 1 Results: 16DE10A5D2DB225AIR
Acquired: 16-DEC-10 14:09:05 Processed: 16-DEC-10 16:41:56
Run: 16DE10A5D2 Analyte: DB225AIR Cal: DB225AIR1214105D2
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000SAMP

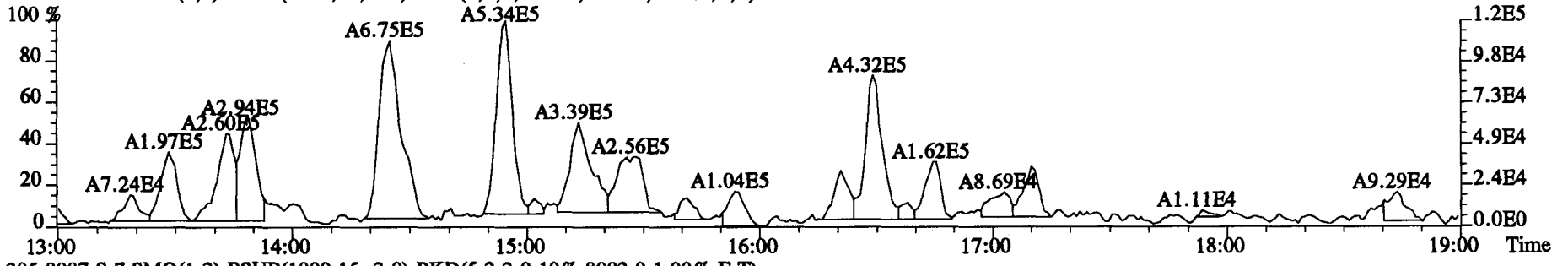
Name	Resp	RA		RT	RRF	Conc		EDL	Rec	M
13C-1,2,3,4-TCDD	88251700	0.83	y	15:15	-	93.02		-	-	n
13C-2,3,7,8-TCDF	194455400	0.78	y	16:28	~~2.02~~ 2.425	~~4357.55~~	3629.79	19.70	~~108.9~~ 90.7	n
2,3,7,8-TCDF	965814	0.81	y	16:29	1.01	19.63		3.99	-	n
13C-2,3,7,8-TCDD	73961400	0.81	y	14:56	0.99	3403.03		22.55	85.1	n
2,3,7,8-TCDD	*	*	n	NotFnd	1.56	*		7.96	-	n
37Cl-2,3,7,8-TCDD	54460600	1.00	y	14:58	1.77	1660.33		11.51	103.8	n

12/17/10 RSS

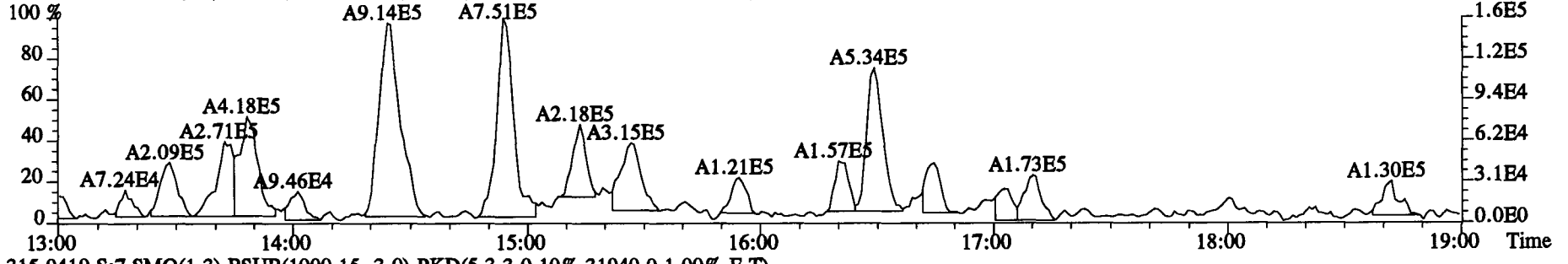
J. Con

85 12/17/10

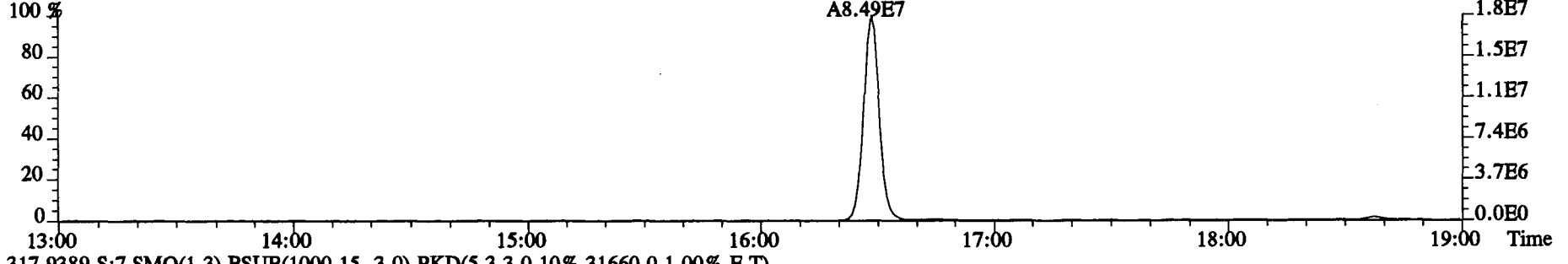
File:16DE10A5D2 #1-1241 Acq:16-DEC-2010 14:09:05 GC EI+ Voltage SIR 70SE
Sample#7 Text:MA8DT-1-AA :G0L110441-11 Exp:DB225RES
303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6172.0,1.00%,F,T)



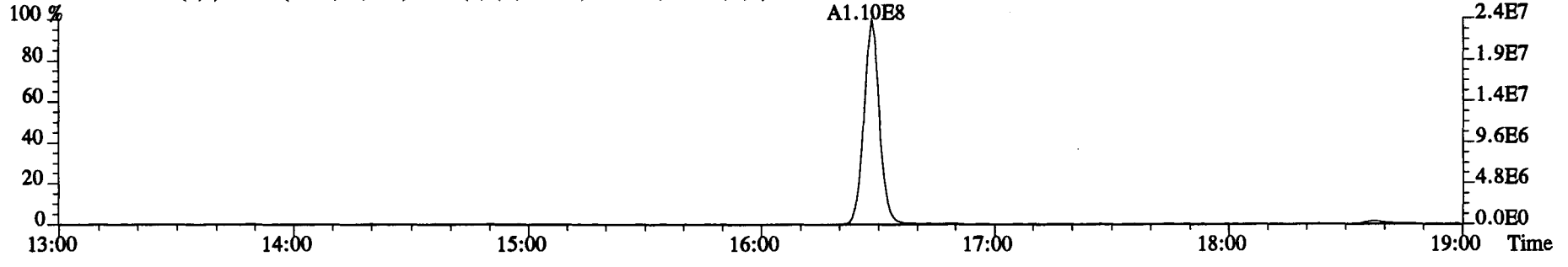
305.8987 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8092.0,1.00%,F,T)



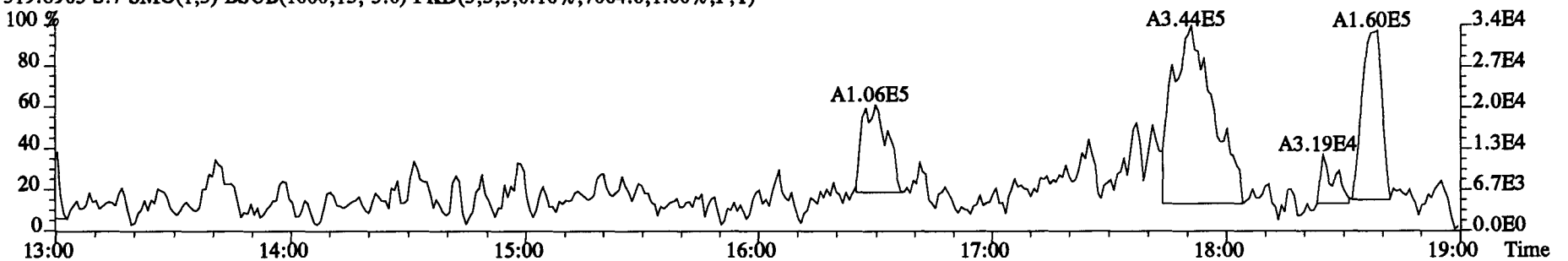
315.9419 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,31940.0,1.00%,F,T)



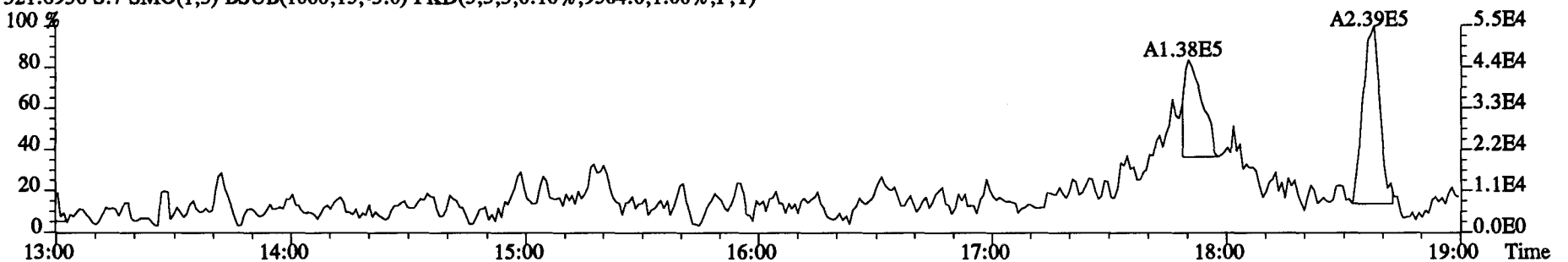
317.9389 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,31660.0,1.00%,F,T)



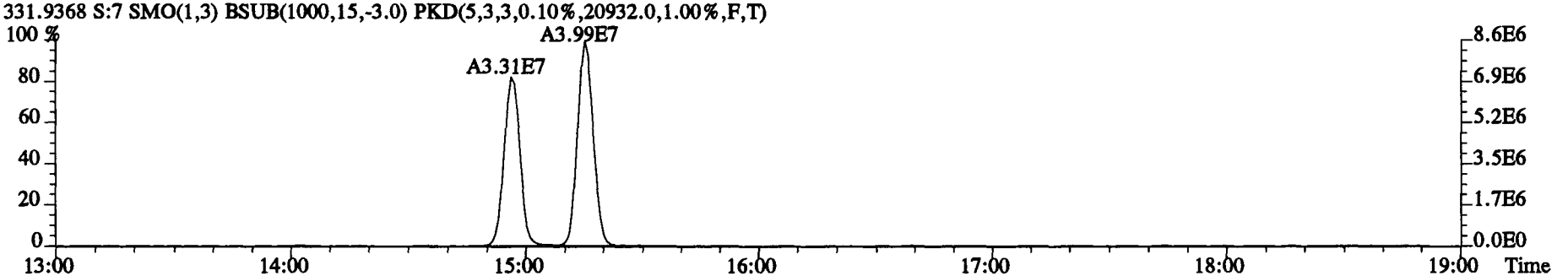
File:16DE10A5D2 #1-1241 Acq:16-DEC-2010 14:09:05 GC EI+ Voltage SIR 70SE
Sample#7 Text:MA8DT-1-AA :G0L110441-11 Exp:DB225RES
319.8965 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7064.0,1.00%,F,T)



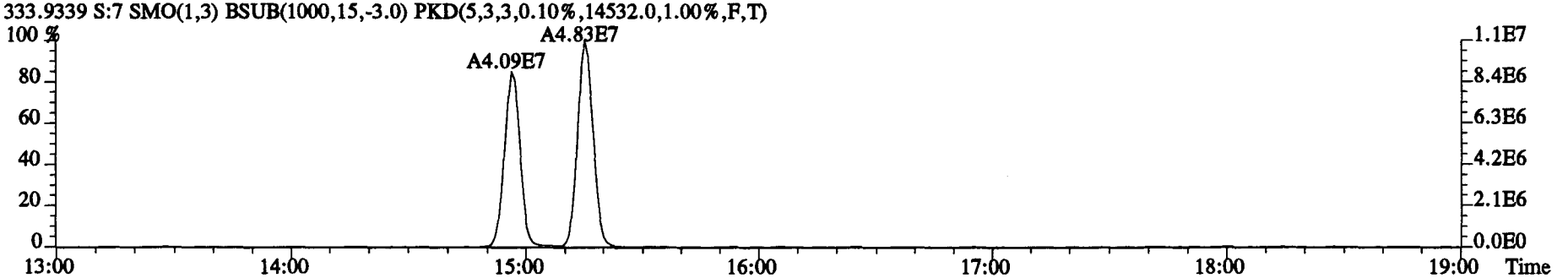
321.8936 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9564.0,1.00%,F,T)



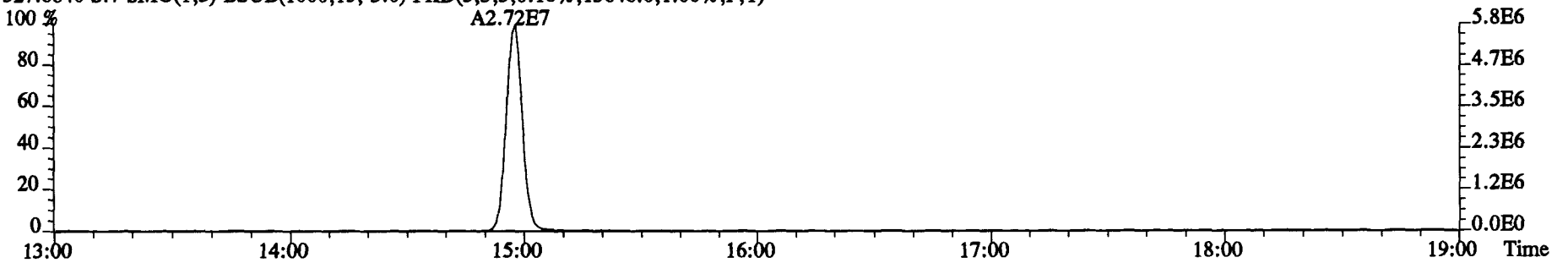
331.9368 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20932.0,1.00%,F,T)



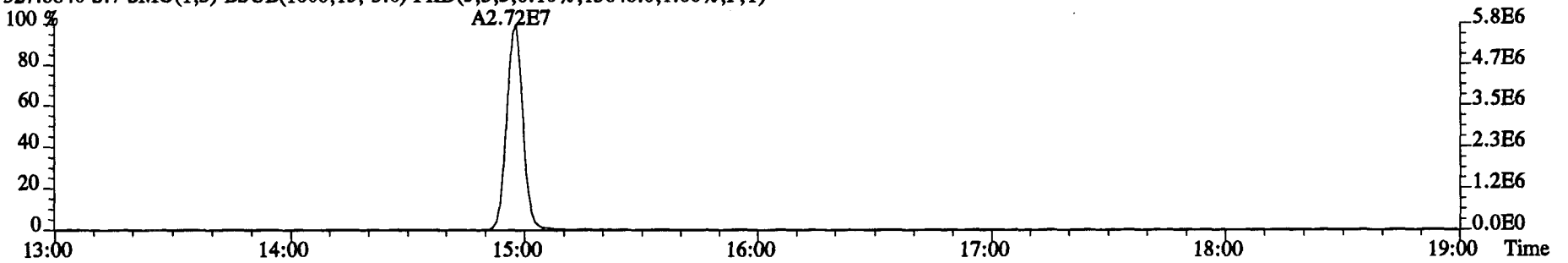
333.9339 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14532.0,1.00%,F,T)



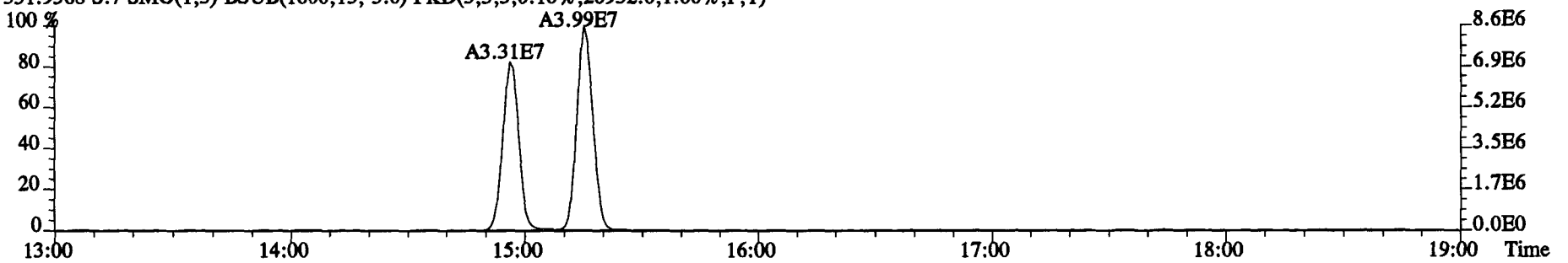
File:16DE10A5D2 #1-1241 Acq:16-DEC-2010 14:09:05 GC EI+ Voltage SIR 70SE
Sample#7 Text:MA8DT-1-AA :G0L110441-11 Exp:DB225RES
327.8840 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13648.0,1.00%,F,T)



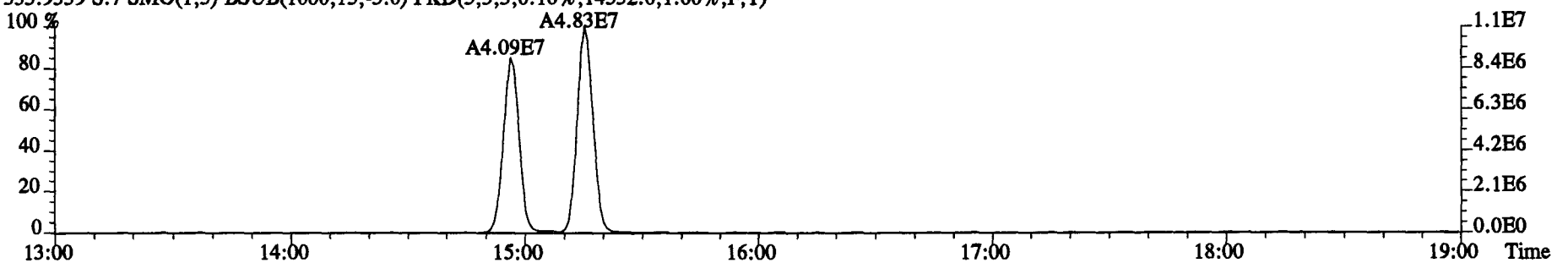
327.8840 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13648.0,1.00%,F,T)



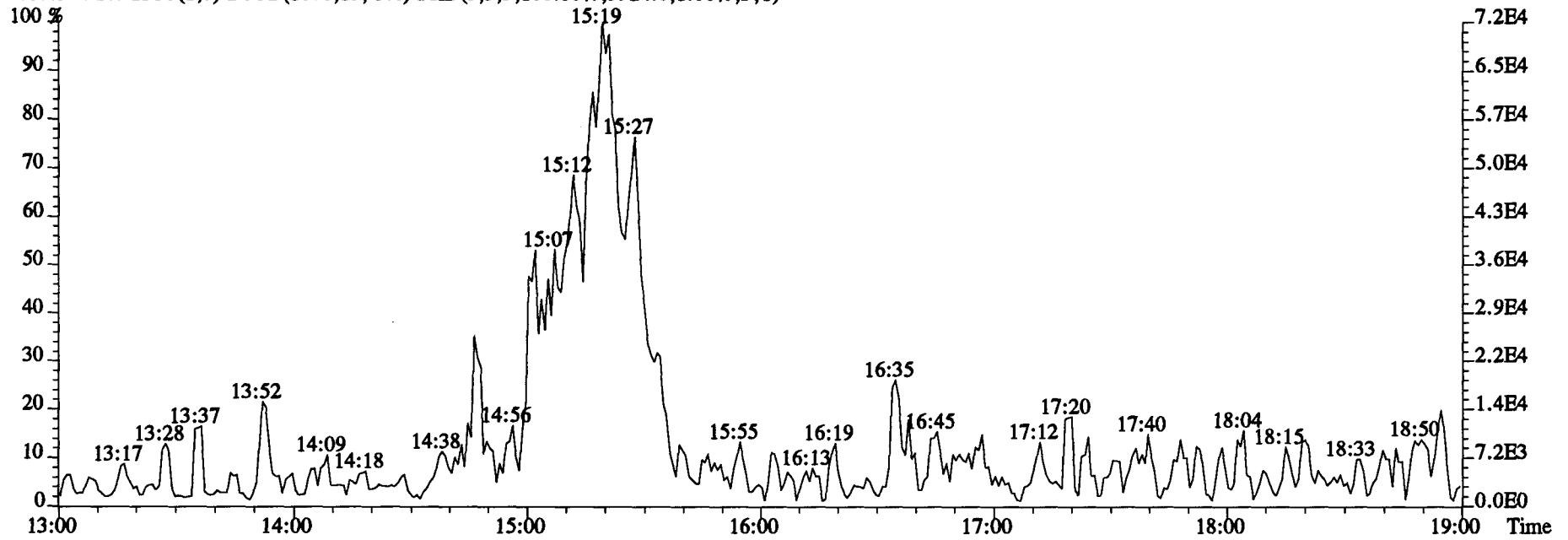
331.9368 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20932.0,1.00%,F,T)



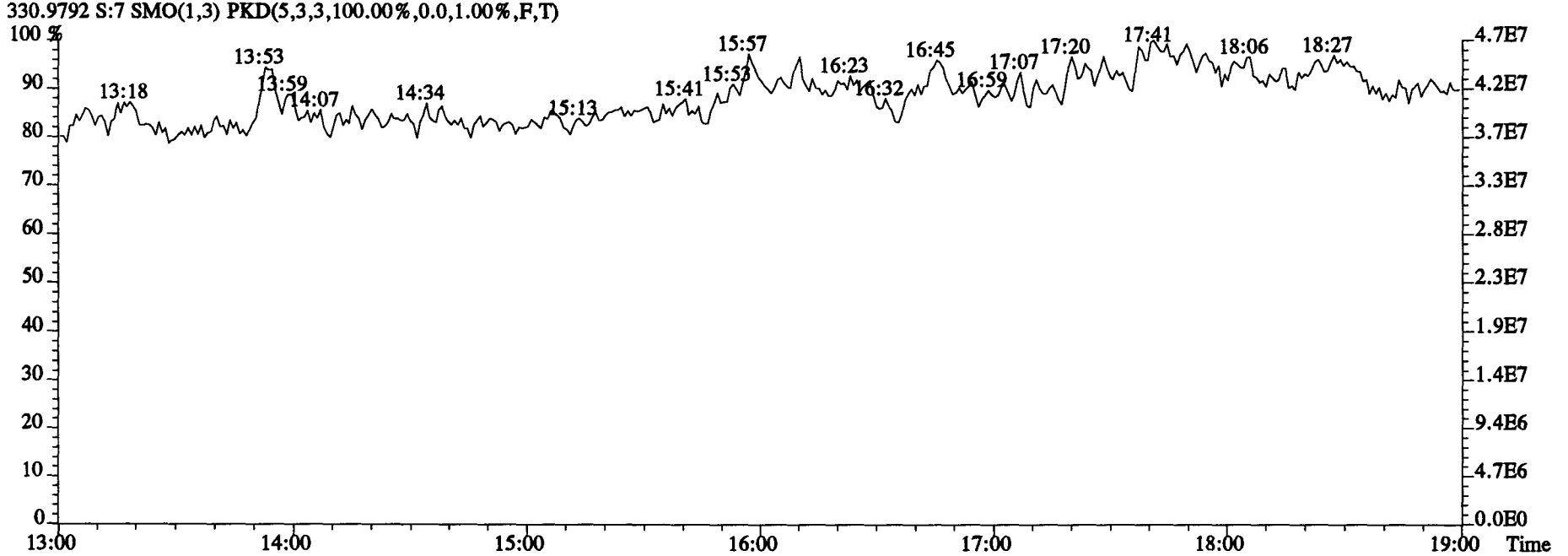
333.9339 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14532.0,1.00%,F,T)



File:16DE10A5D2 #1-1241 Acq:16-DEC-2010 14:09:05 GC EI+ Voltage SIR 70SE
Sample#7 Text:MA8DT-1-AA :G0L110441-11 Exp:DB225RES
375.8364 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,3924.0,1.00%,F,T)



330.9792 S:7 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 **Associated ICAL** T09 121410 9D5

Column ID DB5 **Instrument ID** 9D5

STD ID ST1215, ST1215A **STD Solution** 10 DxN505

Analyzed by AS **Date Analyzed** 12-15-10

Std. Pkg. By AS **Date Std. Pkg. Assembled** 12-16-10

Std. Pkg. Reviewed By MC **Date Std. Pkg. Reviewed** 12-16-10

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	MY
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	MY

COMMENTS:

* **Method 8290/TO9/M0023A: (beginning)** ≤ 20% from curve RRFs for native analytes, ≤ 30% from curve RRFs for labeled compounds.
Method 8290/TO9/M0023A: (ending) ≤ 25% from curve RRFs for native analytes, ≤ 35% from curve RRFs for labeled compounds.
Method 23: See Method 23 Daily Standard Criteria, Table 5.
Method 1613B: See, Method 1613B or Method 1613B Tetras Daily Standard Criteria,

** **Method 23/0023A CPSM Criteria**: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the smallest peak of the triplet
Method 1613B/8290/TO9 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Run text: ST1215 File text: ST1215 :CS-3 10DXN505
Run #6 Filename 15DE109D5 S: 2 I: 1
Acquired: 15-DEC-10 10:37:20 Processed: 15-DEC-10 13:59:28
Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5 Results: 15DE109D5TO9

Name	Resp	RA		RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	126777700	0.73	y	19:12	-	100.00	-	n
13C-2,3,7,8-TCDF	141114100	0.79	y	18:36	1.11	100.00	-0.1	n
2,3,7,8-TCDF	11872190	0.73	y	18:38	0.84	10.00	-4.7	n
Total TCDF	11872190	0.73	y	18:38	0.84	10.00	-4.7	n
13C-2,3,7,8-TCDD	127261500	0.74	y	19:24	1.00	100.00	3.3	n
2,3,7,8-TCDD	10185500	0.78	y	19:25	0.80	10.00	-8.2	n
Total TCDD	10315550	0.70	y	18:11	0.80	10.00	-8.2	n
37Cl-2,3,7,8-TCDD	15319360	1.00	y	19:25	1.20	10.00	-1.6	n
13C-1,2,3,7,8-PeCDF	114712500	1.49	y	24:16	0.90	100.00	-1.8	n
1,2,3,7,8-PeCDF	60433000	1.53	y	24:17	1.05	50.00	-1.0	n
2,3,4,7,8-PeCDF	57235100	1.52	y	25:48	1.00	50.00	-2.9	n
Total F2 PeCDF	118794719	1.57	y	22:45	1.03	100.00	-1.9	n
Total F1 PeCDF	195927	2.06	n	19:12	1.03	100.00	-1.9	n
13C-1,2,3,7,8-PeCDD	104101800	1.46	y	26:36	0.82	100.00	-1.0	n
1,2,3,7,8-PeCDD	37712800	1.45	y	26:37	0.72	50.00	-8.6	n
Total PeCDD	37796538	3.27	n	24:17	0.72	50.00	-8.6	n
13C-1,2,3,7,8,9-HxCDD	77349800	1.30	y	32:49	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	83875800	0.51	y	31:40	1.08	100.00	1.1	n
1,2,3,4,7,8-HxCDF	41133600	1.17	y	31:41	0.98	50.00	-7.7	n
1,2,3,6,7,8-HxCDF	48246300	1.20	y	31:48	1.15	50.00	2.6	n
2,3,4,6,7,8-HxCDF	42994800	1.19	y	32:22	1.03	50.00	-2.2	n
1,2,3,7,8,9-HxCDF	37720400	1.18	y	33:00	0.90	50.00	-5.6	n
Total HxCDF	170198990	0.96	n	30:32	1.01	200.00	-3.1	n
13C-1,2,3,6,7,8-HxCDD	72947900	1.34	y	32:34	0.94	100.00	6.2	n
1,2,3,4,7,8-HxCDD	36544700	1.18	y	32:30	1.00	50.00	-10.0	n
1,2,3,6,7,8-HxCDD	39829000	1.17	y	32:35	1.09	50.00	-5.8	n
1,2,3,7,8,9-HxCDD	41052100	1.17	y	32:50	1.13	50.00	-6.3	n
Total HxCDD	117460580	4.77	n	31:41	1.07	150.00	-7.3	n
13C-1,2,3,4,6,7,8-HpCDF	80779700	0.45	y	34:18	1.04	100.00	10.2	n
1,2,3,4,6,7,8-HpCDF	56303400	1.03	y	34:18	1.39	50.00	-2.9	n
1,2,3,4,7,8,9-HpCDF	46687600	1.05	y	35:24	1.16	50.00	-5.8	n
Total HpCDF	103783777	1.03	y	34:18	1.27	100.00	-4.2	n
13C-1,2,3,4,6,7,8-HpCDD	91749800	0.98	y	35:05	1.19	100.00	10.3	n
1,2,3,4,6,7,8-HpCDD	38905800	1.02	y	35:06	0.85	50.00	-5.3	n
Total HpCDD	40082370	3.73	n	34:18	0.85	50.00	-5.3	n
13C-OCDD	115246200	0.87	y	37:31	0.74	200.00	8.0	n
OCDF	60670700	0.87	y	37:38	1.05	100.00	-10.8	n
OCDD	60125500	0.91	y	37:32	1.04	100.00	-8.4	n

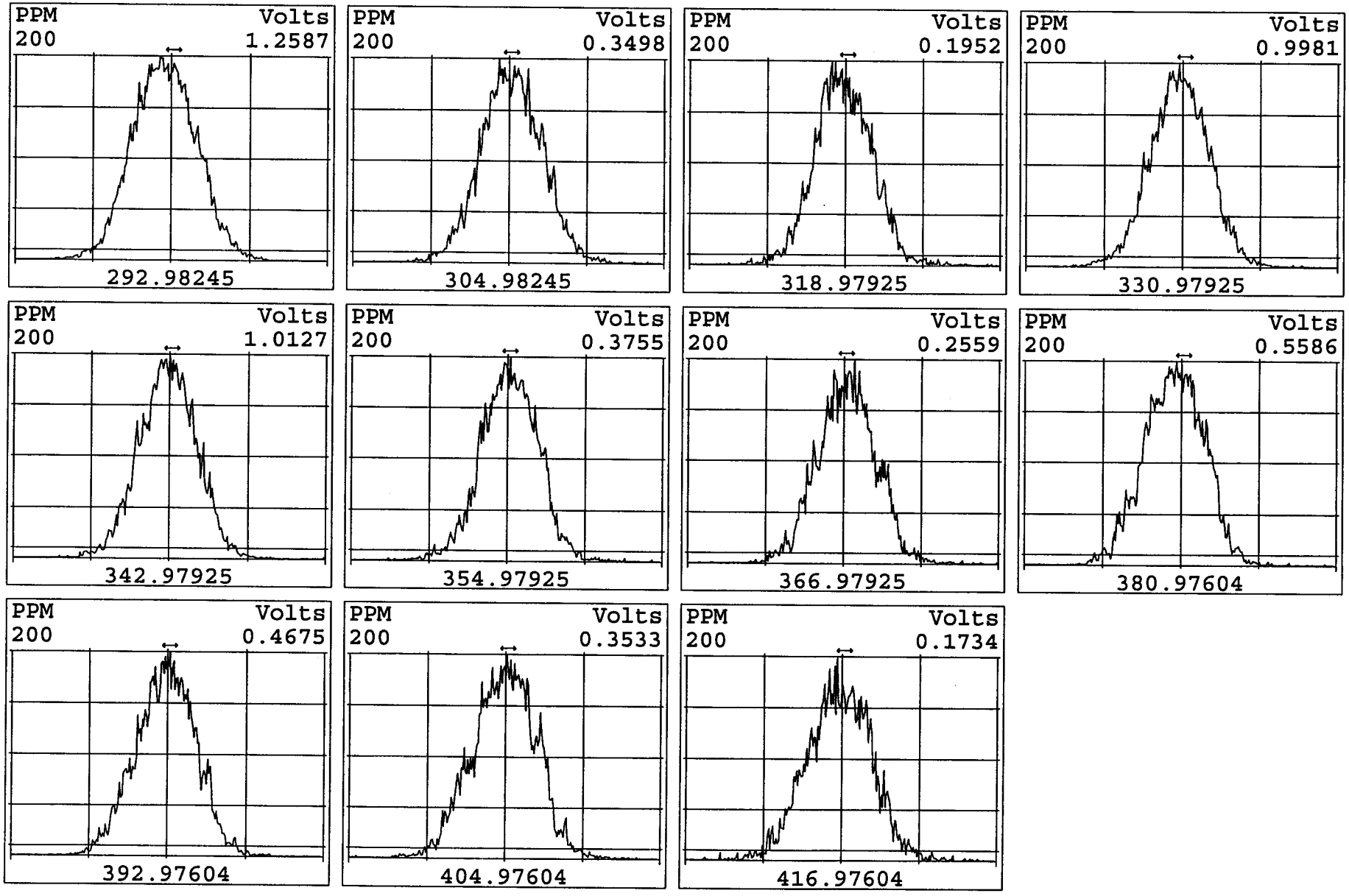
Run text: ST1215A File text: ST1215A :CS-3 10DXN505
Run #6 Filename 15DE109D5 S: 15 I: 1
Acquired: 15-DEC-10 20:05:29 Processed: 15-DEC-10 20:48:26
Run: 15DE109D5 Analyte: 8290 Cal: 82901214109D5 Results: 15DE109D58290

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	127080000	0.73 y	19:12	-	100.00	-	n
13C-2,3,7,8-TCDF	139453500	0.80 y	18:37	1.10	100.00	-1.5	n
2,3,7,8-TCDF	11738240	0.77 y	18:38	0.84	10.00	-4.7	n
Total TCDF	11738240	0.77 y	18:38	0.84	10.00	-4.7	n
13C-2,3,7,8-TCDD	128554500	0.74 y	19:24	1.01	100.00	4.1	n
2,3,7,8-TCDD	9987650	0.80 y	19:26	0.78	10.00	-10.9	n
Total TCDD	10091273	1.57 n	18:09	0.78	10.00	-10.9	n
37Cl-2,3,7,8-TCDD	15285500	1.00 y	19:25	1.20	10.00	1.1	n
13C-1,2,3,7,8-PeCDF	117711800	1.47 y	24:16	0.93	100.00	0.6	n
1,2,3,7,8-PeCDF	61419900	1.52 y	24:18	1.04	50.00	-2.0	n
2,3,4,7,8-PeCDF	58774900	1.52 y	25:47	1.00	50.00	-2.8	n
Total F2 PeCDF	121272203	1.13 n	22:46	1.02	100.00	-2.4	n
Total F1 PeCDF	143443	3.17 n	19:12	1.02	100.00	-2.4	n
13C-1,2,3,7,8-PeCDD	111821200	1.50 y	26:36	0.88	100.00	6.1	n
1,2,3,7,8-PeCDD	40733800	1.45 y	26:38	0.73	50.00	-8.1	n
Total PeCDD	40833169	2.69 n	24:17	0.73	50.00	-8.1	n
13C-1,2,3,7,8,9-HxCDD	78473400	1.31 y	32:49	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	85524100	0.51 y	31:40	1.09	100.00	1.7	n
1,2,3,4,7,8-HxCDF	41616500	1.15 y	31:41	0.97	50.00	-8.4	n
1,2,3,6,7,8-HxCDF	46387800	1.17 y	31:48	1.08	50.00	-3.3	n
2,3,4,6,7,8-HxCDF	42142300	1.16 y	32:21	0.99	50.00	-6.0	n
1,2,3,7,8,9-HxCDF	37752500	1.19 y	33:00	0.88	50.00	-7.3	n
Total HxCDF	168000200	1.62 n	30:33	0.98	200.00	-6.2	n
13C-1,2,3,6,7,8-HxCDD	72945500	1.33 y	32:34	0.93	100.00	4.7	n
1,2,3,4,7,8-HxCDD	33565900	1.13 y	32:29	0.92	50.00	-17.4	n
1,2,3,6,7,8-HxCDD	41145000	1.15 y	32:34	1.13	50.00	-2.7	n
1,2,3,7,8,9-HxCDD	41953700	1.16 y	32:50	1.15	50.00	-4.3	n
Total HxCDD	116664600	1.13 y	32:29	1.07	150.00	-7.9	n
13C-1,2,3,4,6,7,8-HpCDF	84498400	0.44 y	34:18	1.08	100.00	13.6	n
1,2,3,4,6,7,8-HpCDF	57162300	1.04 y	34:18	1.35	50.00	-5.7	n
1,2,3,4,7,8,9-HpCDF	47470600	1.03 y	35:24	1.12	50.00	-8.4	n
Total HpCDF	105167833	1.04 y	34:18	1.24	100.00	-7.0	n
13C-1,2,3,4,6,7,8-HpCDD	97654700	1.00 y	35:05	1.24	100.00	15.7	n
1,2,3,4,6,7,8-HpCDD	40739000	1.03 y	35:05	0.83	50.00	-6.8	n
Total HpCDD	41049591	1.03 y	34:32	0.83	50.00	-6.8	n
13C-OCDD	116207800	0.87 y	37:31	0.74	200.00	7.3	n
OCDF	60494800	0.86 y	37:38	1.04	100.00	-11.8	n
OCDD	60210200	0.91 y	37:31	1.04	100.00	-9.0	n

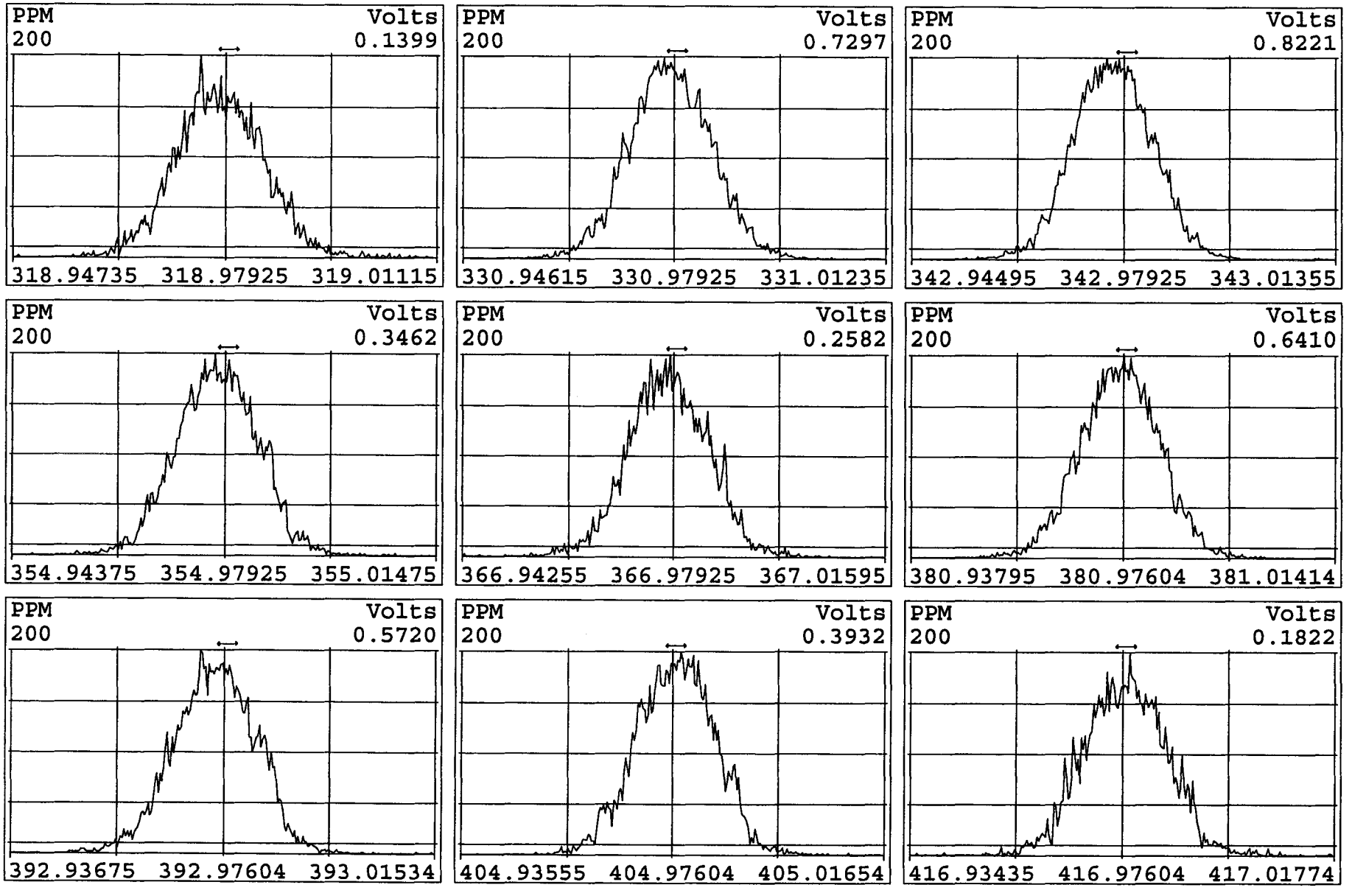
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
15DE109D5	1	CP1215	DB-5 CPSM 3732-08				1.00000	
15DE109D5	2	ST1215	CS-3 10DXN505				1.00000	
15DE109D5	3	MA8N7-1-AA	G0L120000-012 (584-1MB)	20	1613B-T/WATER	38	1.00000	L
15DE109D5	4	MA8N7-1-AC	G0L120000-012 (584-1LCS)	20	1613B-T/WATER		1.00000	L
15DE109D5	5	MA7GA-1-AA	G0L100584-1	20	1613B-T/WATER		1.03023	L
15DE109D5	6	MA7GJ-1-AA	G0L100584-2	20	1613B-T/WATER		1.02860	L
15DE109D5	7	MA7GK-1-AA	G0L100584-3	20	1613B-T/WATER		1.00468	L
15DE109D5	8	MA8DF-1-AA	G0L110441-2	20	TO9/AIR	39	0.50000	SAM
15DE109D5	9	MA8DJ-1-AA	G0L110441-5	20	TO9/AIR		0.50000	SAM
15DE109D5	10	MA8DM-1-AA	G0L110441-8	20	TO9/AIR		0.50000	SAM
15DE109D5	11	MA8DT-1-AA	G0L110441-11	20	TO9/AIR		0.50000	SAM
15DE109D5	12	MCCX2-1-AC	G0L110441-2LCS	20	TO9/AIR		0.50000	SAM
15DE109D5	13	MCCX2-1-AD	G0L110441-2DCS	20	TO9/AIR		0.50000	SAM
15DE109D5	14	MCCX2-1-AA	G0L110441-2MB	20	TO9/AIR		0.50000	SAM
15DE109D5	15	ST1215A	CS-3 10DXN505				1.00000	
15DE109D5	16	CP1215A	DB-5 CPSM 3732-08				1.00000	
15DE109D5	17	MA9VN-1-AA	G0L130427-1MB	20	8290/WATER	38	1.00000	L
15DE109D5	18	MA9VN-1-AC	G0L130427-1LCS	20	8290/WATER		1.00000	L
15DE109D5	19	MA89J-1-AA	G0L130427-1	20	8290/WATER		1.04260	L
15DE109D5	20	MA890-1-AA	G0L130427-2	20	8290/WATER		0.99417	L
15DE109D5	21	MA7GL-1-AA	G0L100584-4	20	1613B-T/WATER	38	1.08063	L
15DE109D5	22	MA7GN-1-AA	G0L100584-5	20	1613B-T/WATER		1.01544	L
5DE109D5	23	MA68N-1-AA	G0L100558-1	20	1613B-T/WATER		1.01521	L
.5DE109D5	24	MA7NV-1-AA	G0L100620-1	20	1613B-T/WATER		0.91455	L
15DE109D5	25	MA7PF-1-AA	G0L100626-1	20	1613B-T/WATER		0.93826	L
15DE109D5	26	MA9V6-1-AC	G0L130000-418 (620-1LCS)	20	1613B-T/WATER		1.00000	L
15DE109D5	27	MA9V6-1-AD	G0L130000-418 (620-1LFB)	20	1613B-T/WATER		1.00000	L
15DE109D5	28	MA9V6-1-AA	G0L130000-418 (620-1MB)	20	1613B-T/WATER		1.00000	L
15DE109D5	29	QC-CHECK	2ND SOURCE QC-10DNX511				1.00000	
15DE109D5	30	ST1215B	CS-3 10DXN505				1.00000	
15DE109D5	31						1.00000	
15DE109D5	32						1.00000	
15DE109D5	33						1.00000	
15DE109D5	34						1.00000	
15DE109D5	35		AS 12-15-10				1.00000	

Logfile rvd
12/16/10
KSS

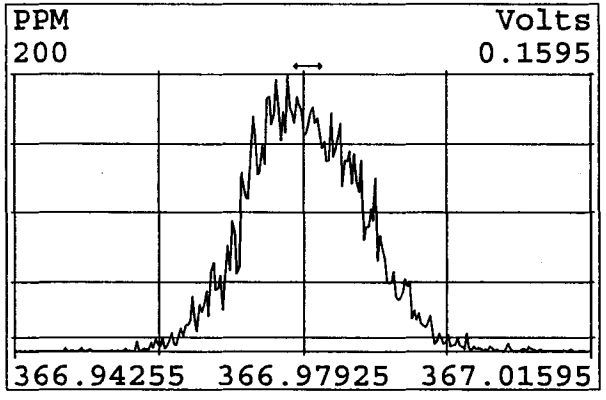
Peak Locate Examination:15-DEC-2010:09:50 File:15DE109D5
Experiment:DIOXINRES Function:1 Reference:PFK

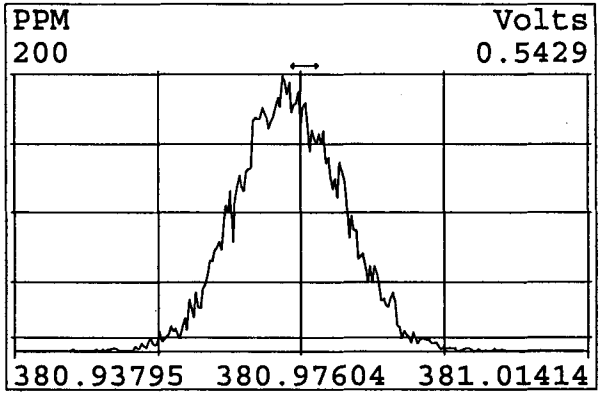


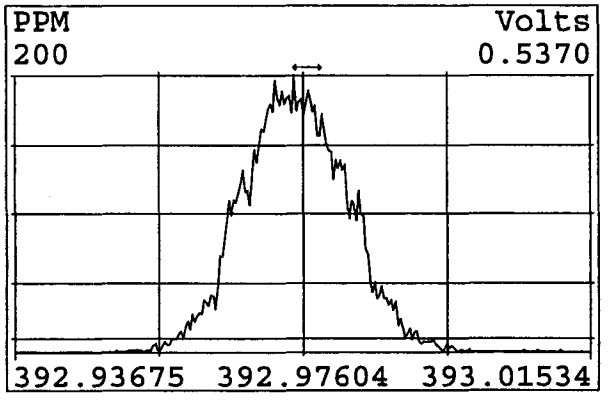
Peak Locate Examination:15-DEC-2010:09:51 File:15DE109D5
Experiment:DIOXINRES Function:2 Reference:PFK

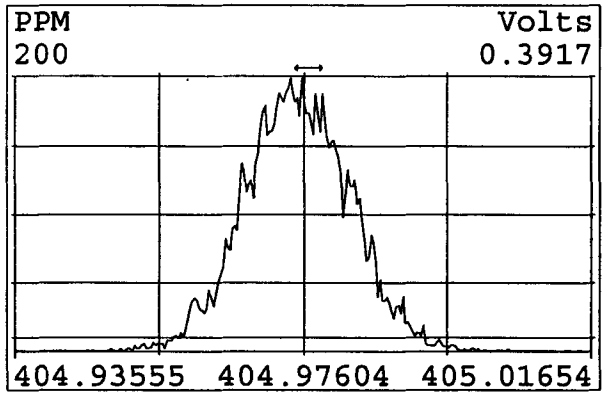


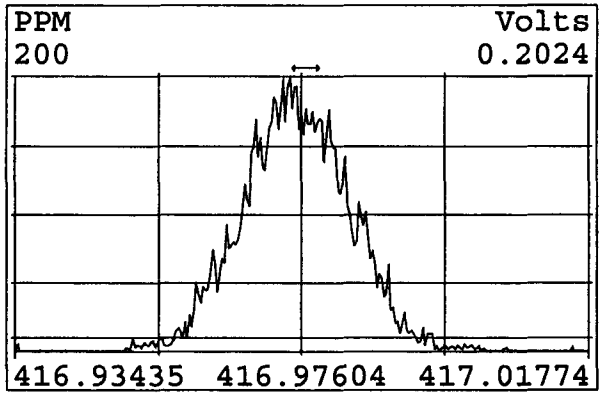
Peak Locate Examination:15-DEC-2010:09:51 File:15DE109D5
Experiment:DIOXINRES Function:3 Reference:PFK

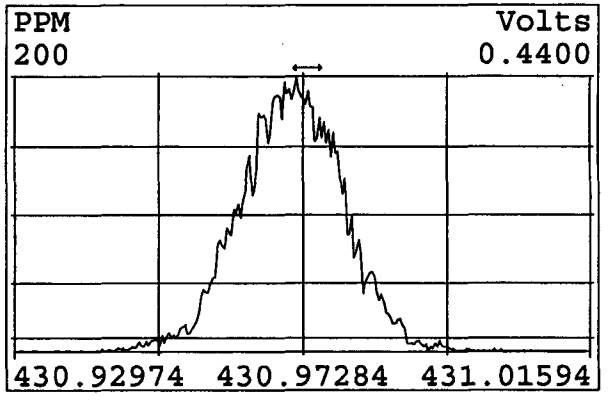


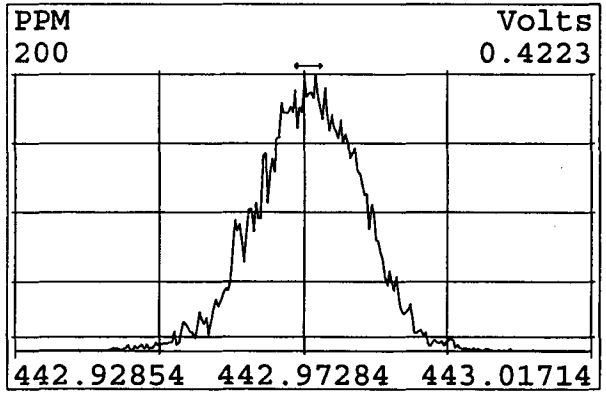


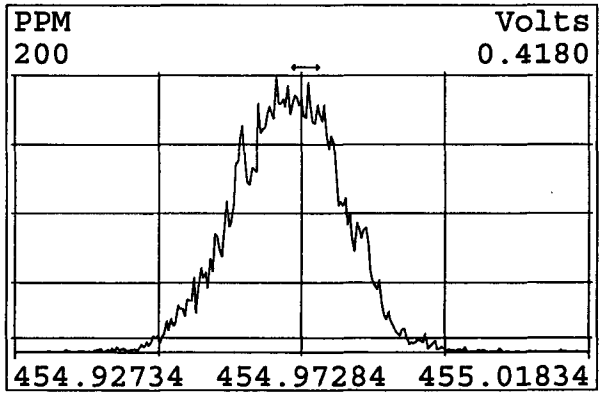




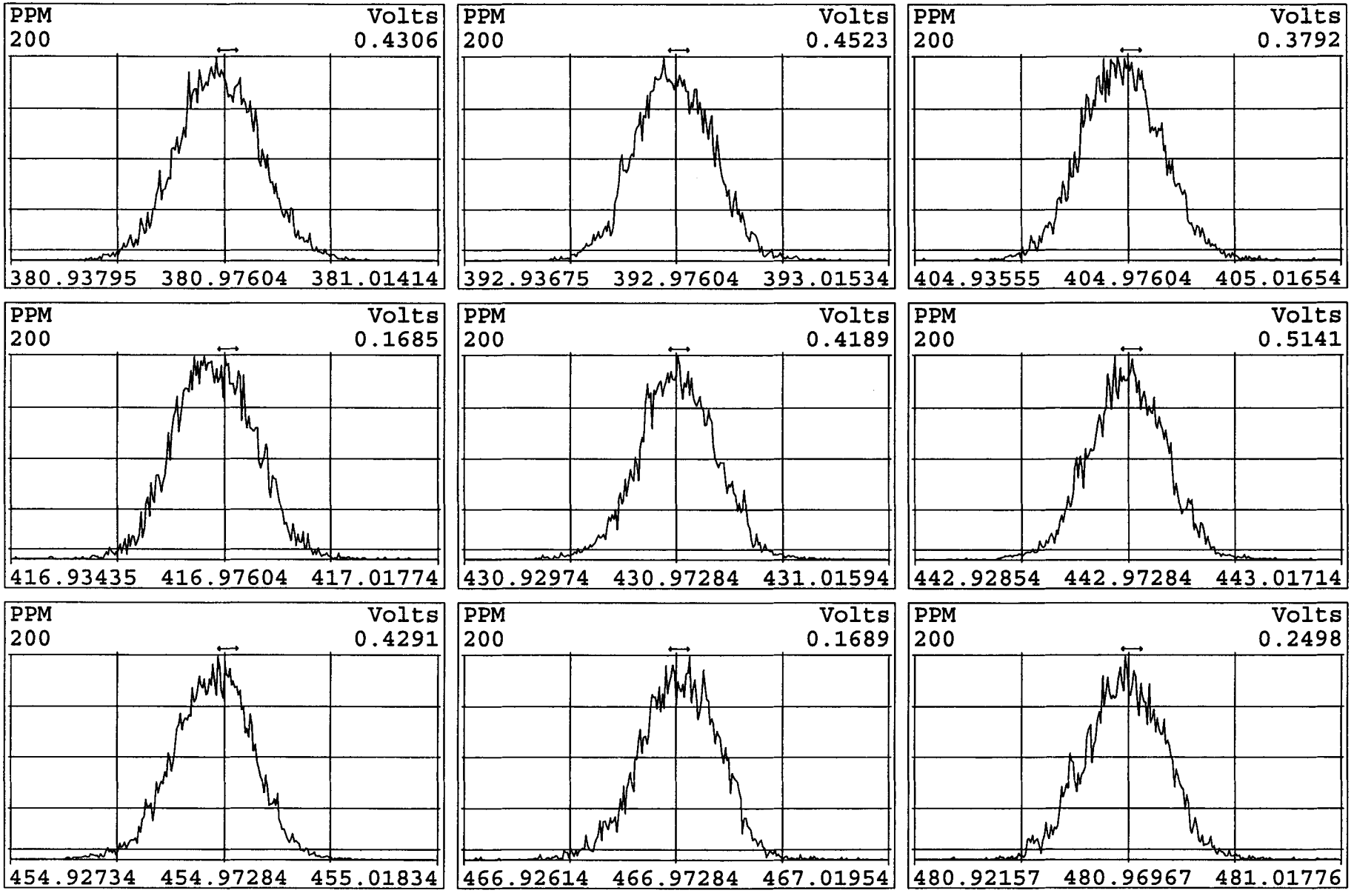




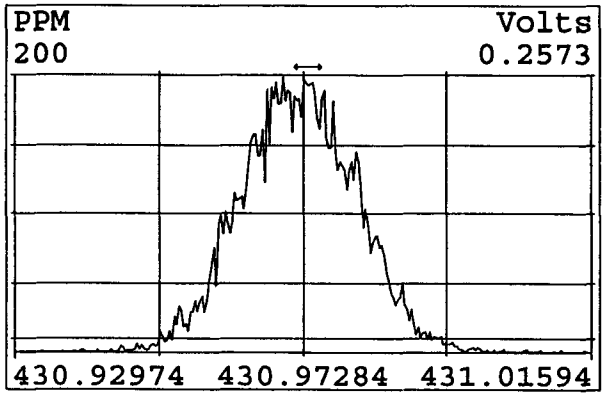


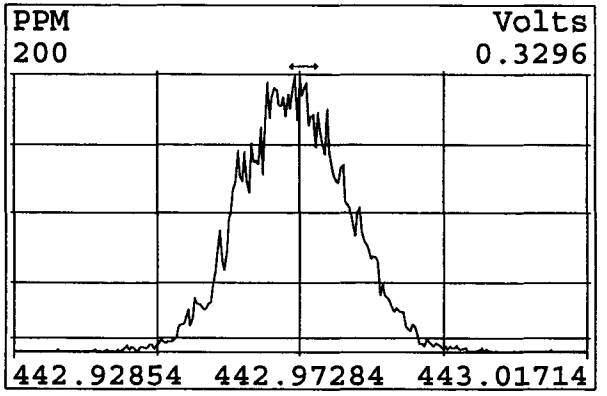


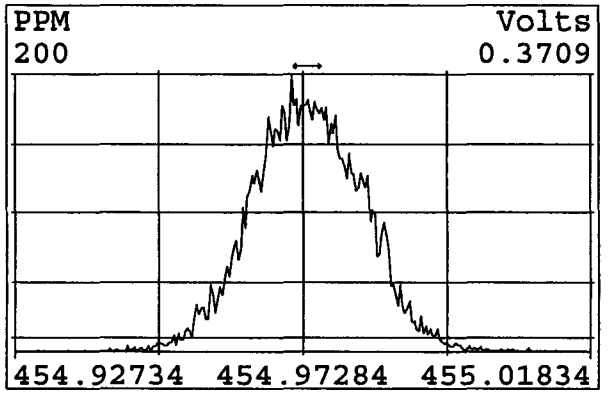
Peak Locate Examination:15-DEC-2010:09:52 File:15DE109D5
Experiment:DIOXINRES Function:4 Reference:PFK

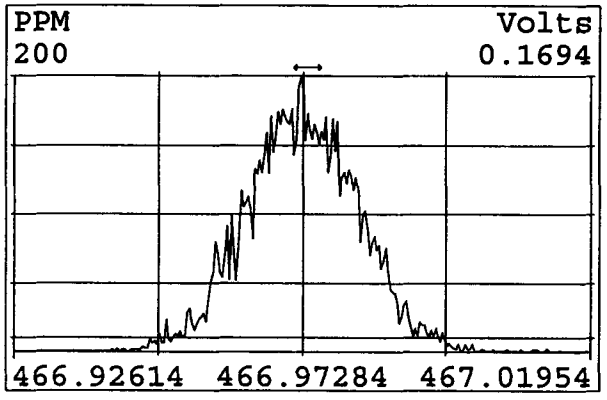


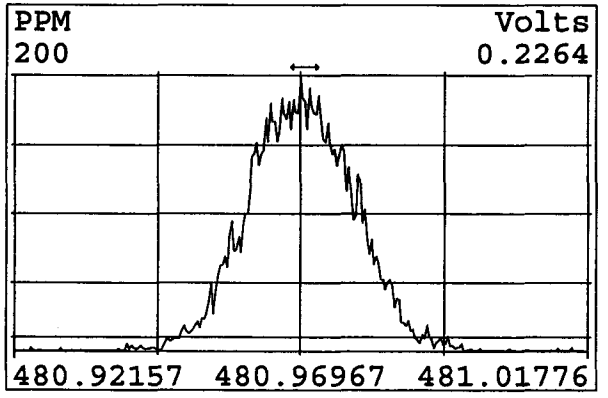
Peak Locate Examination:15-DEC-2010:09:52 File:15DE109D5
Experiment:DIOXINRES Function:5 Reference:PFK

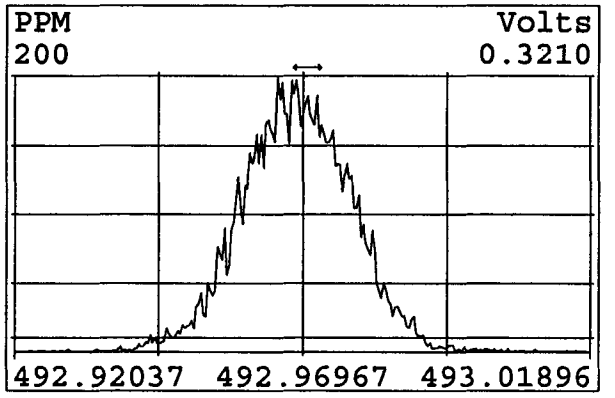


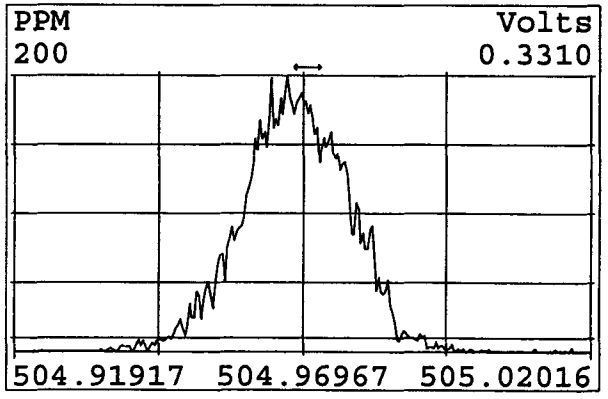


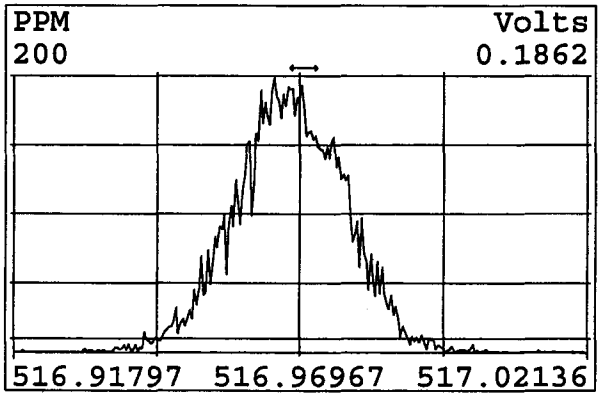




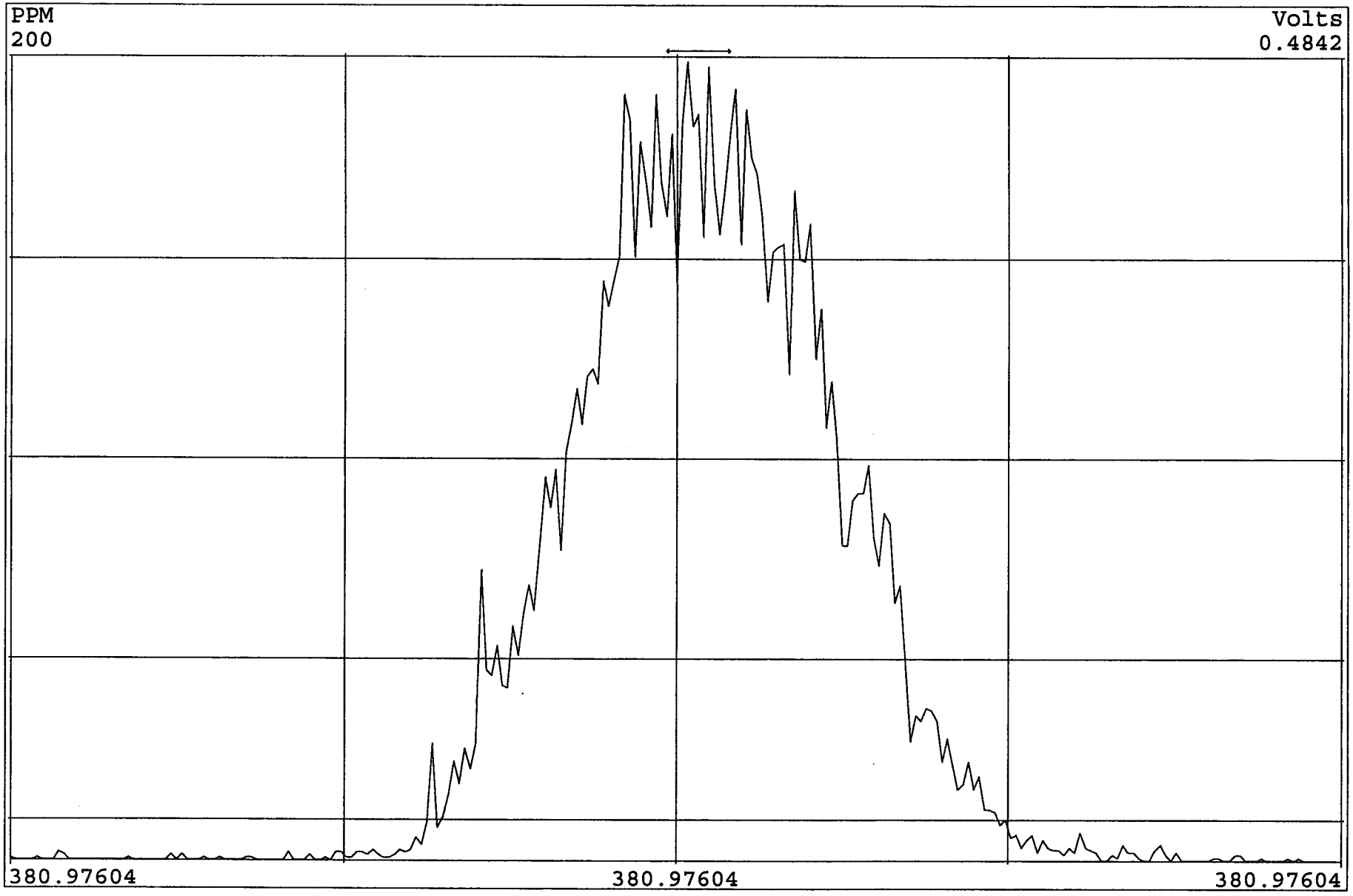




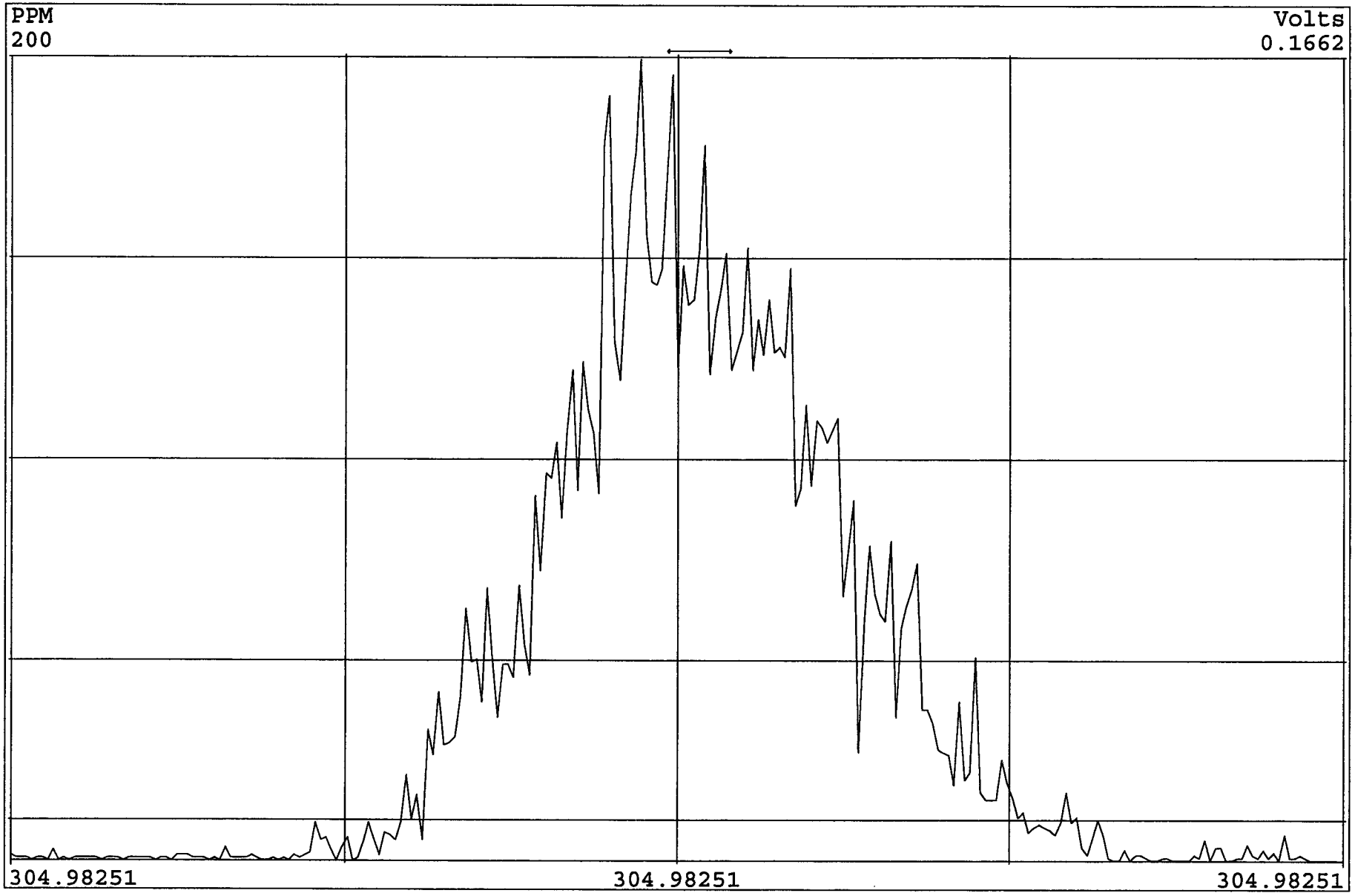




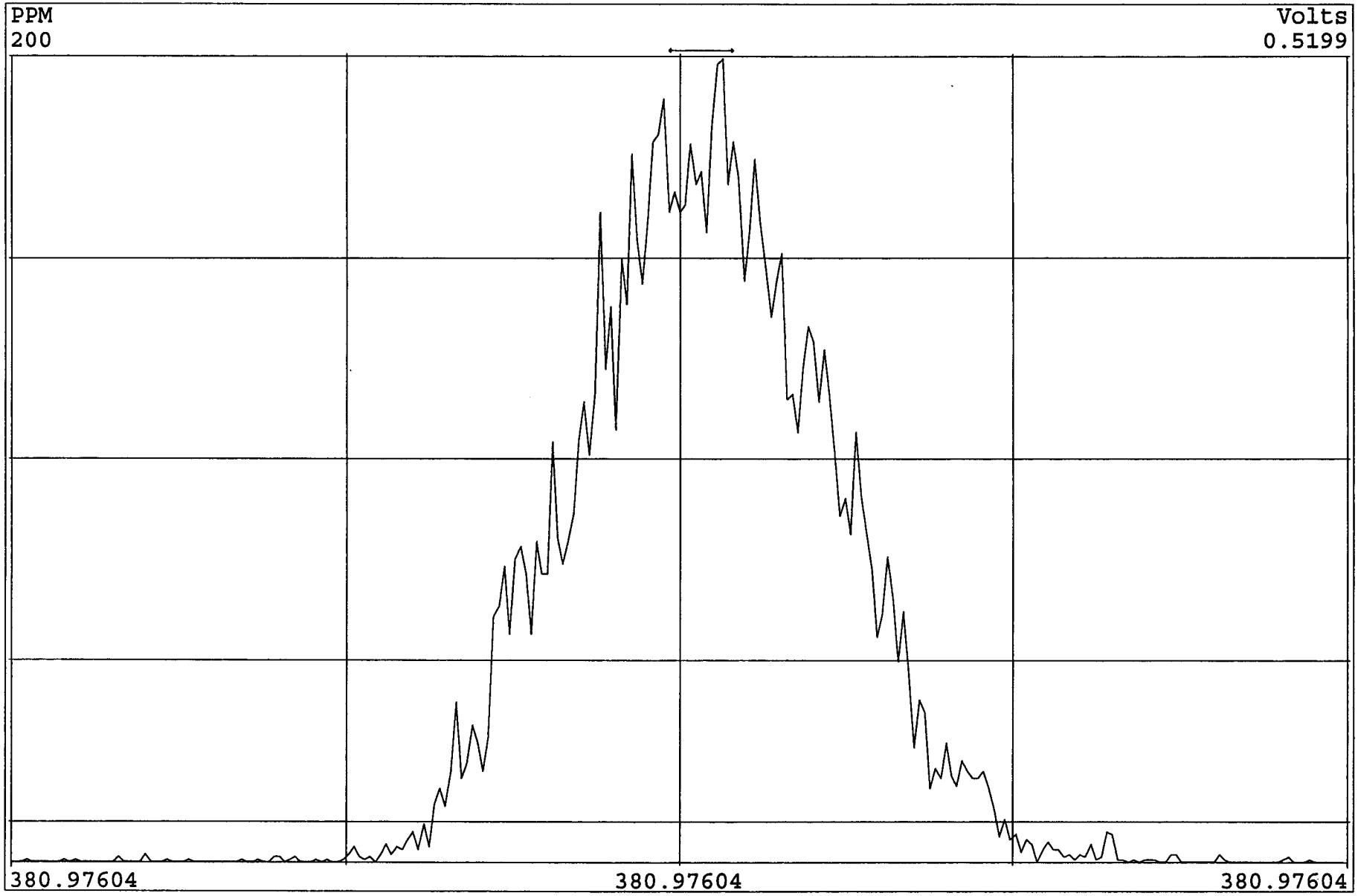
SIRLM Examination:15-DEC-2010:20:03 File:15DE109D5
Experiment:DIOXINRES Function:6



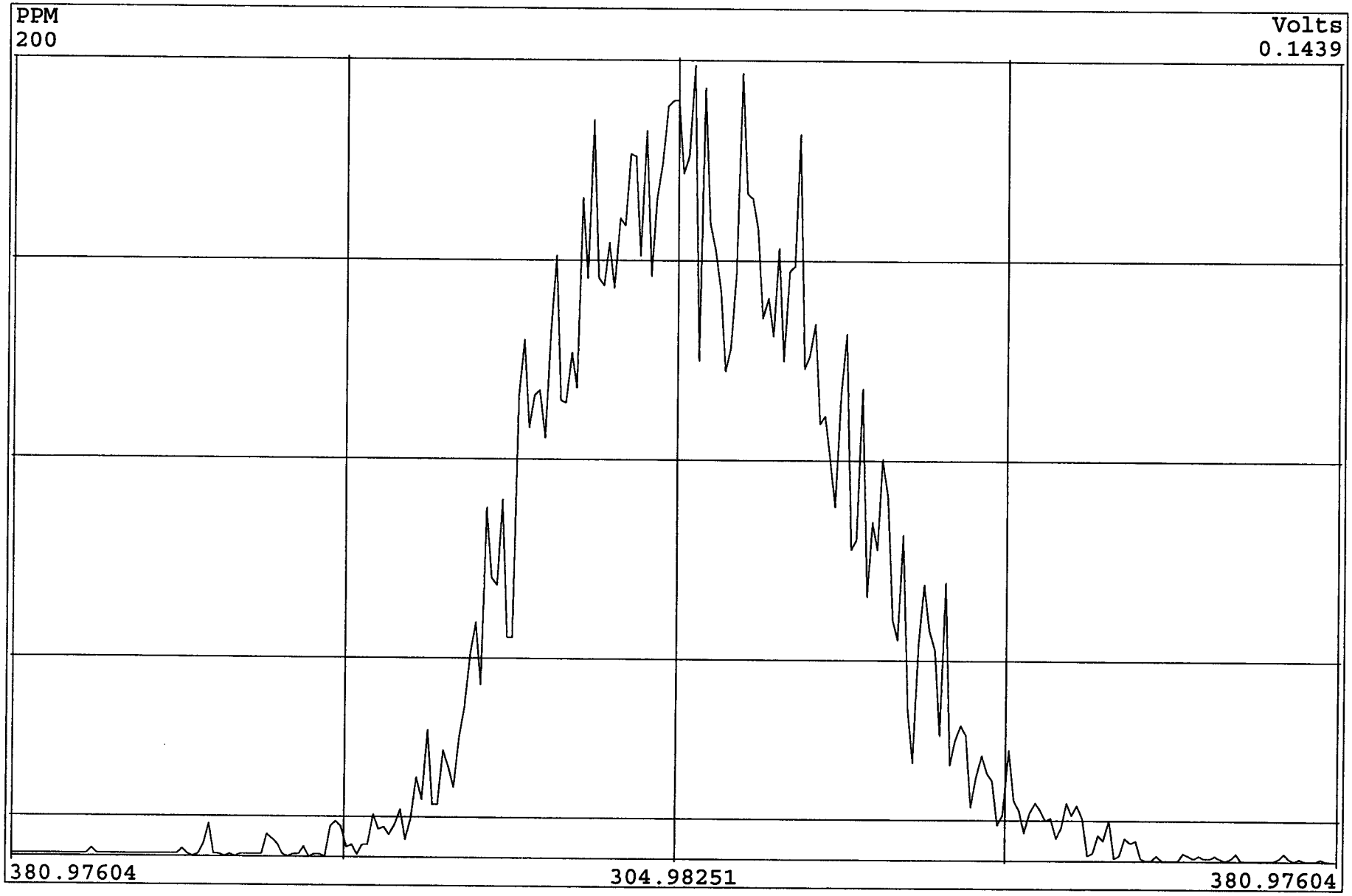
SIRLM Examination:15-DEC-2010:20:04 File:15DE109D5
Experiment:DIOXINRES Function:7



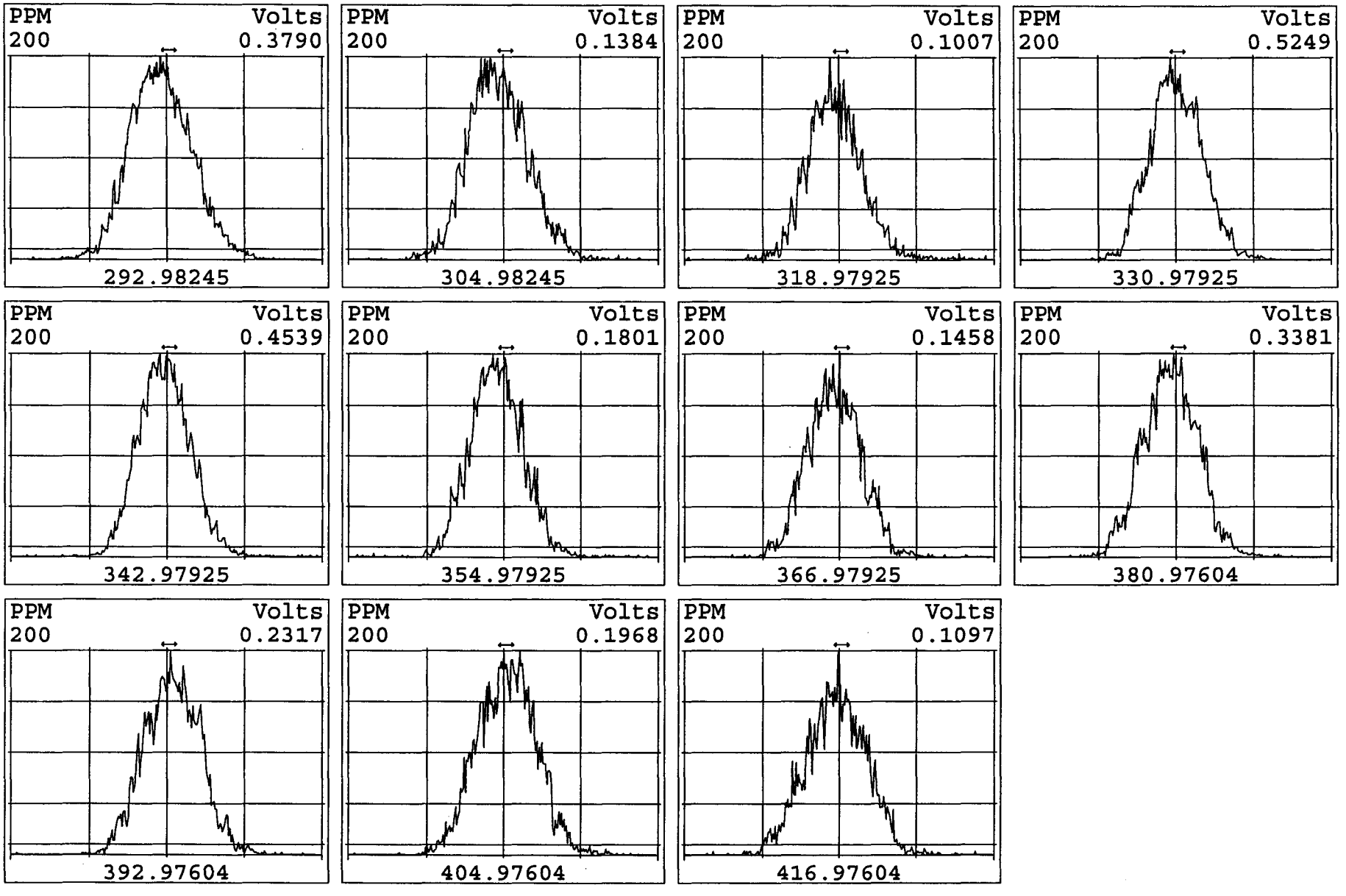
SIRLM Examination:15-DEC-2010:20:46 File:15DE109D5
Experiment:DIOXINRES Function:6



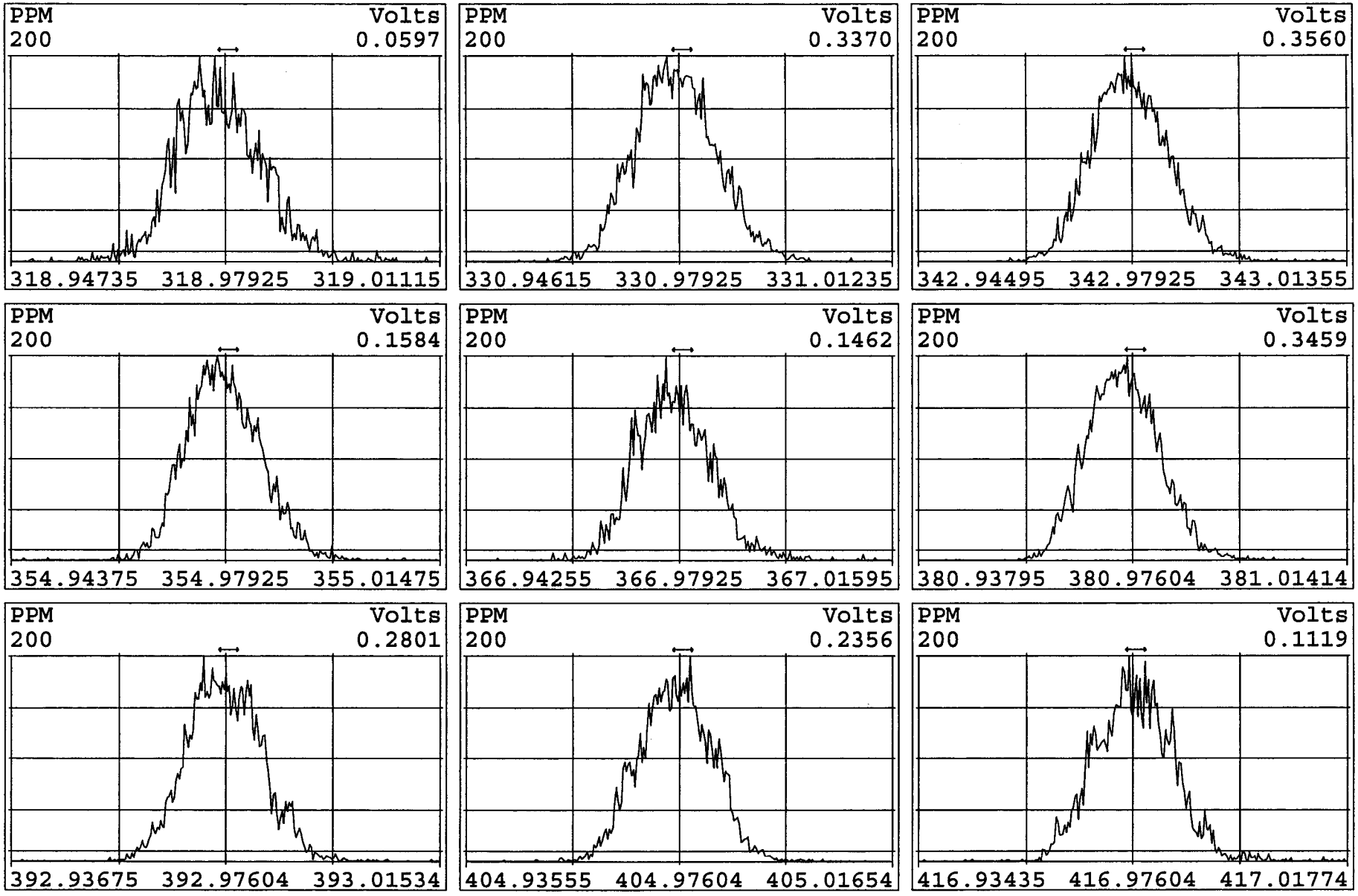
SIRLM Examination:15-DEC-2010:20:47 File:15DE109D5
Experiment:DIOXINRES Function:7



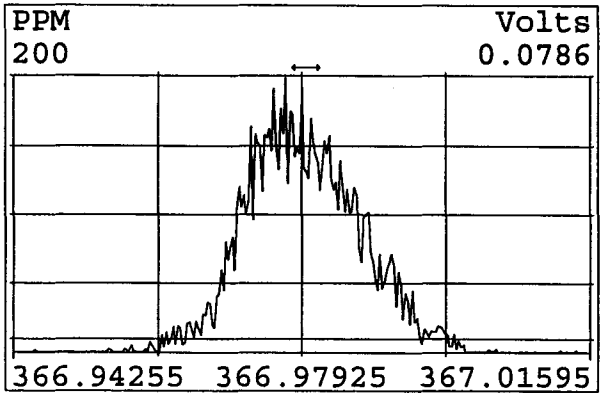
Peak Locate Examination:16-DEC-2010:08:46 File:15DE109D5ENDRES
Experiment:DIOXINRES Function:1 Reference:PFK

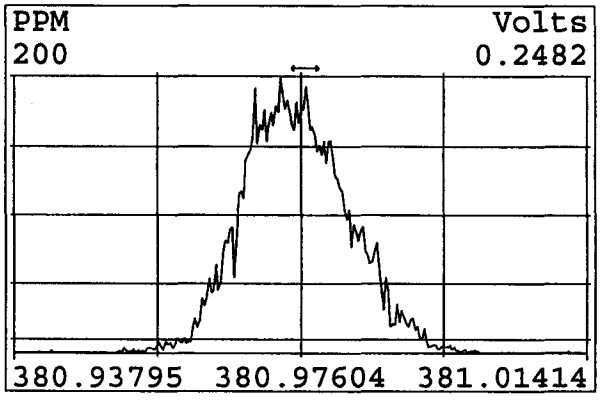


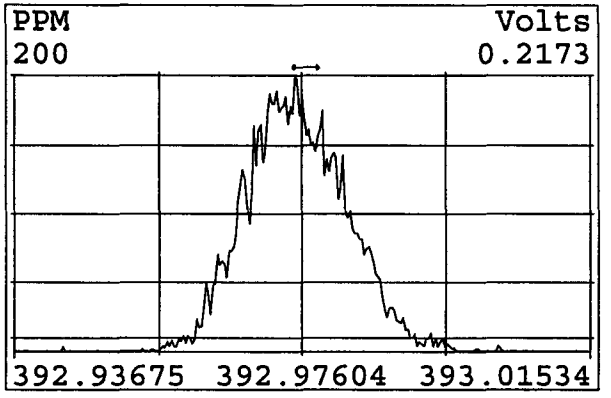
Peak Locate Examination:16-DEC-2010:08:46 File:15DE109D5ENDRES
Experiment:DIOXINRES Function:2 Reference:PFK

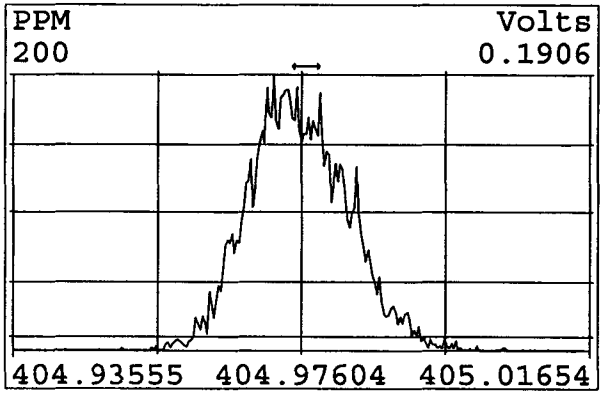


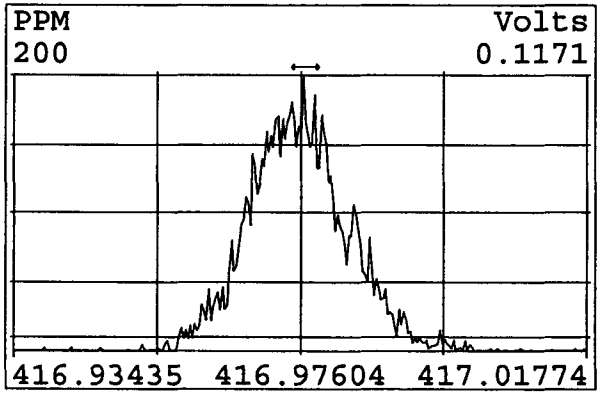
Peak Locate Examination:16-DEC-2010:08:47 File:15DE109D5ENDRES
Experiment:DIOXINRES Function:3 Reference:PFK

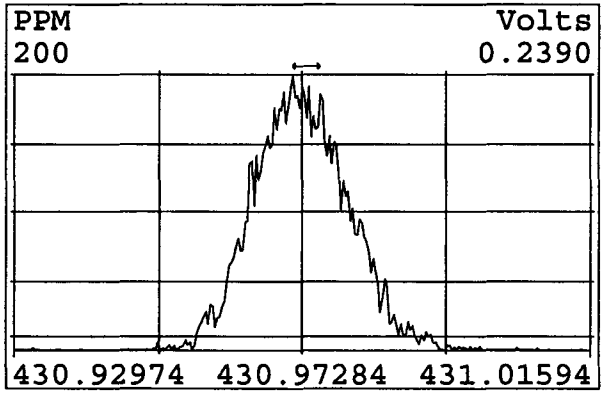


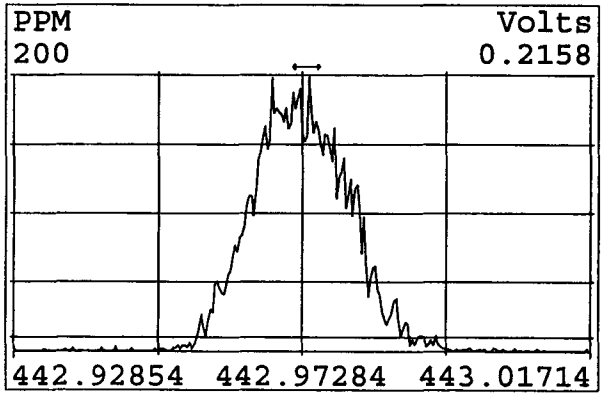


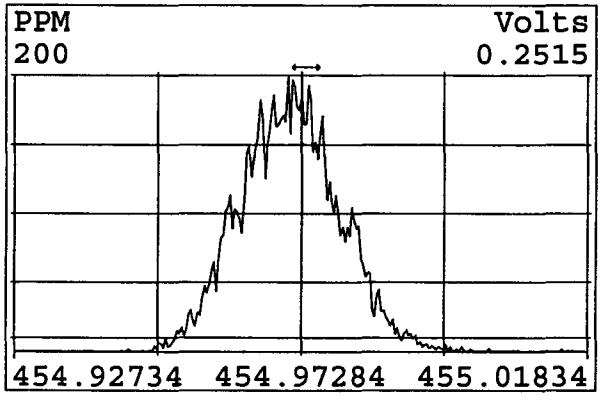




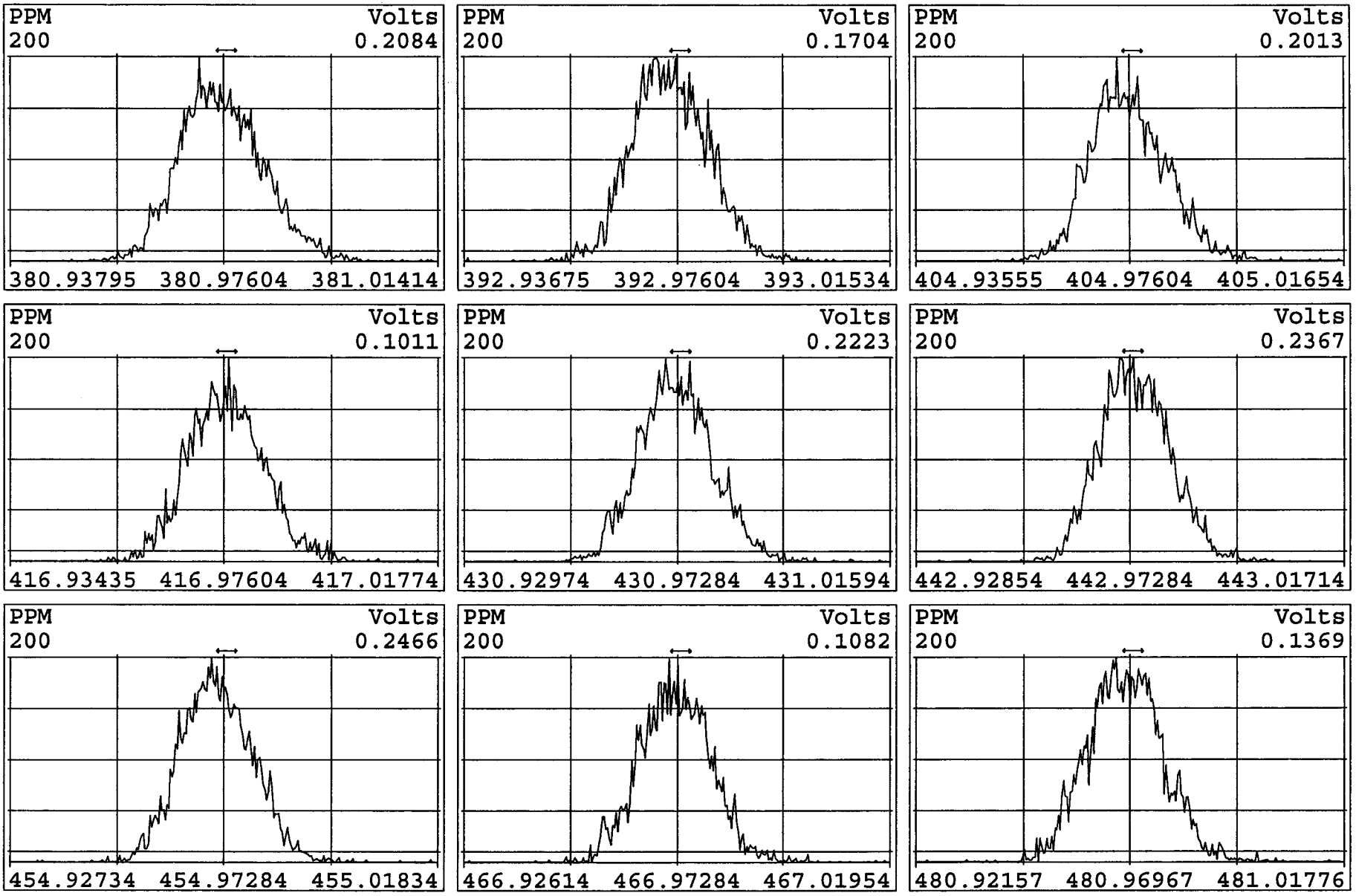




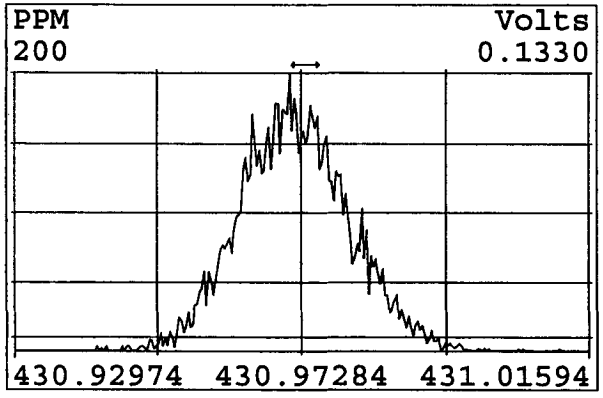


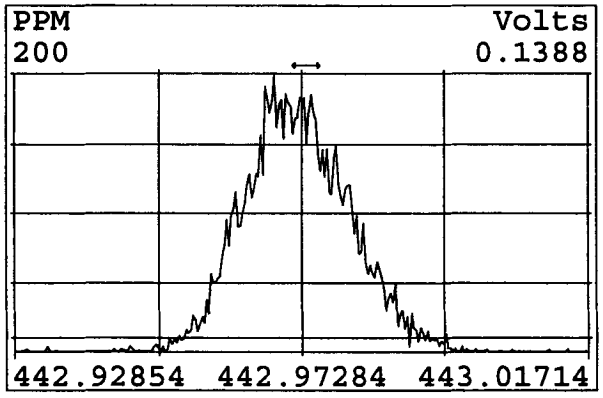


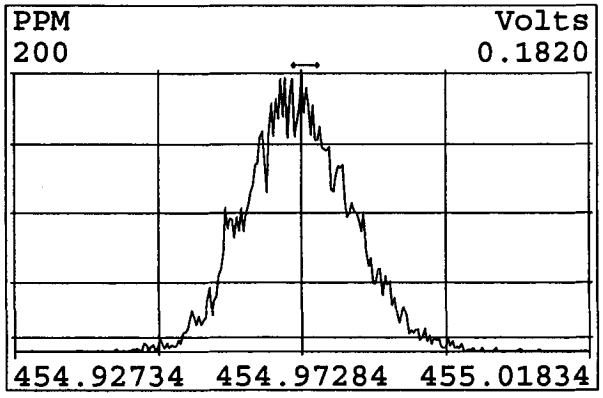
Peak Locate Examination:16-DEC-2010:08:47 File:15DE109D5ENDRES
Experiment:DIOXINRES Function:4 Reference:PFK

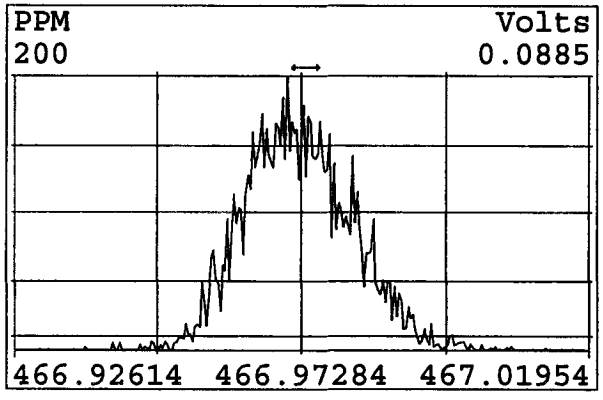


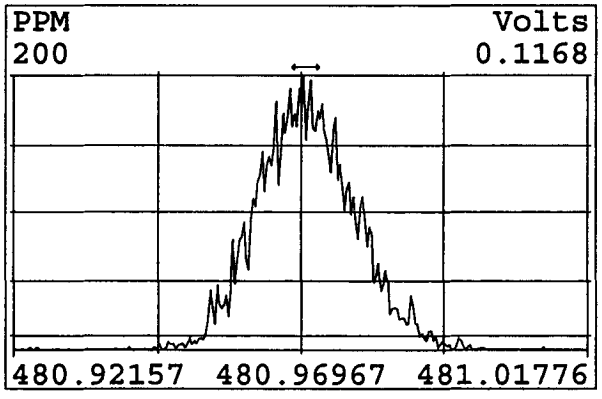
Peak Locate Examination:16-DEC-2010:08:48 File:15DE109D5ENDRES
Experiment:DIOXINRES Function:5 Reference:PFK

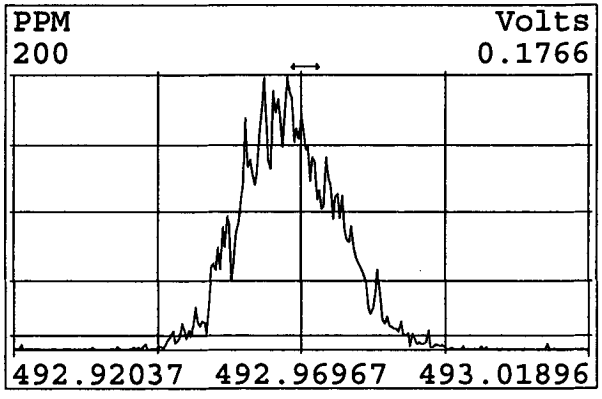


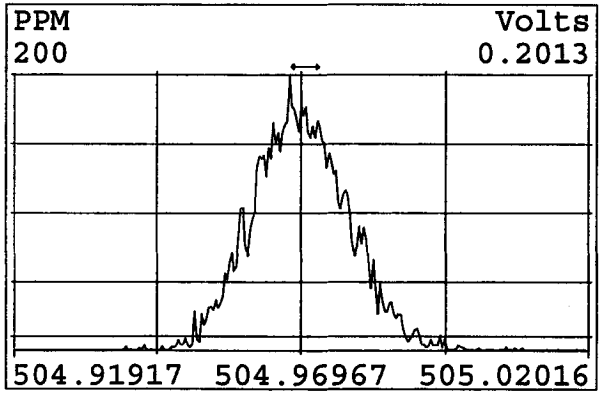


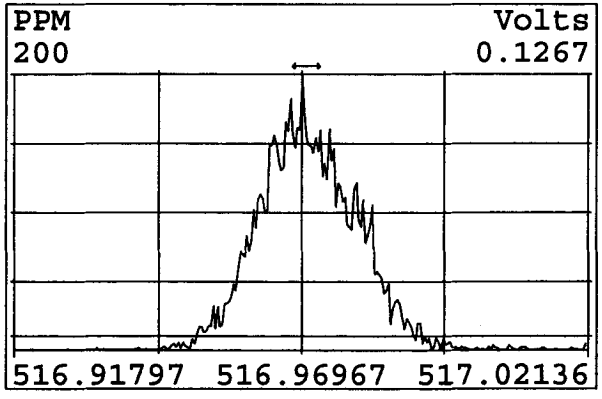




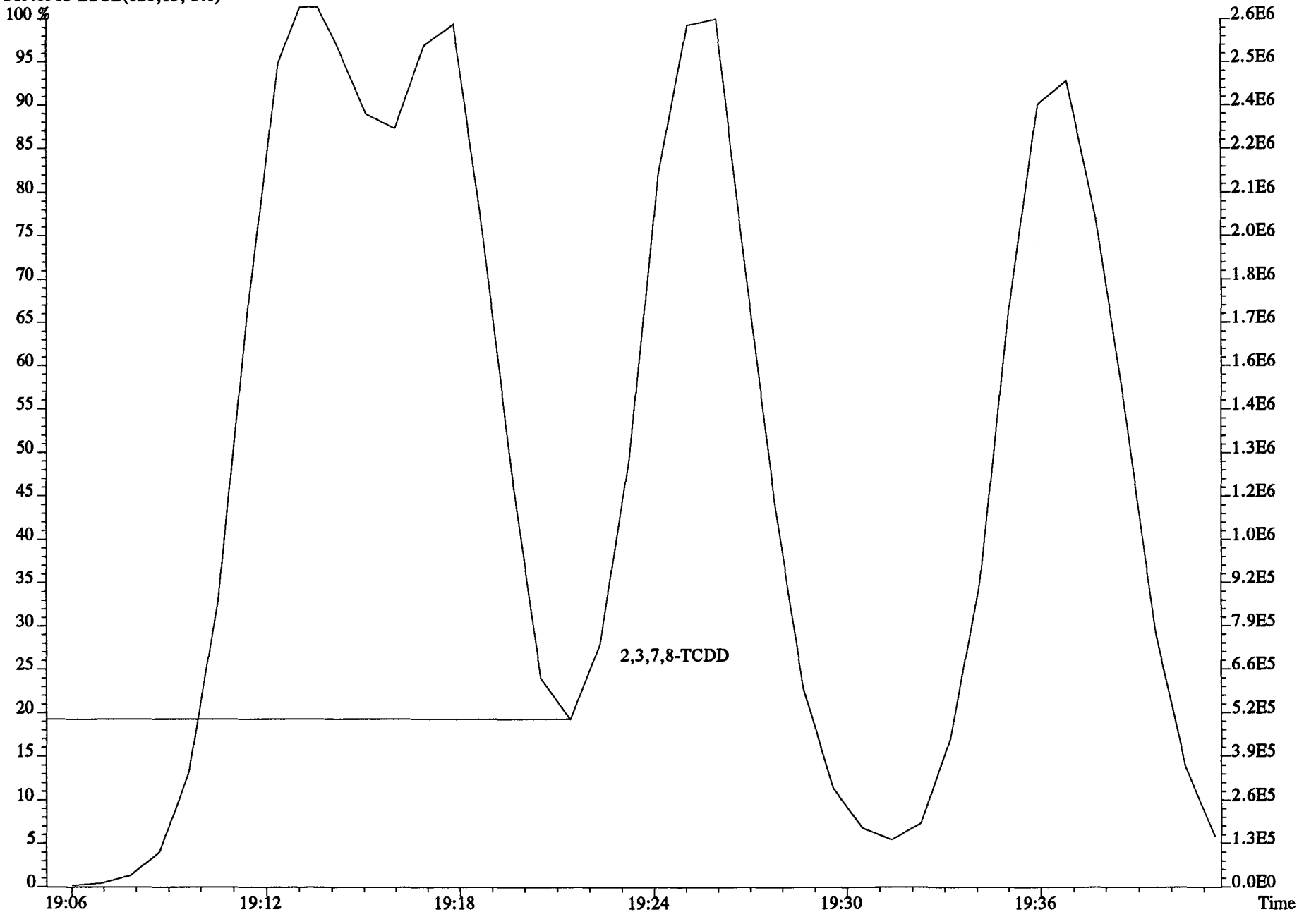








File:15DE109D5 #1-464 Acq:15-DEC-2010 09:53:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1215 :DB-5 CPSM 3732-08 Exp:DIOXINRES
319.8965 BSUB(128,15,-3.0)



Run: 15DE109D5 Analyte: TO9 Cal: TO91214109D5

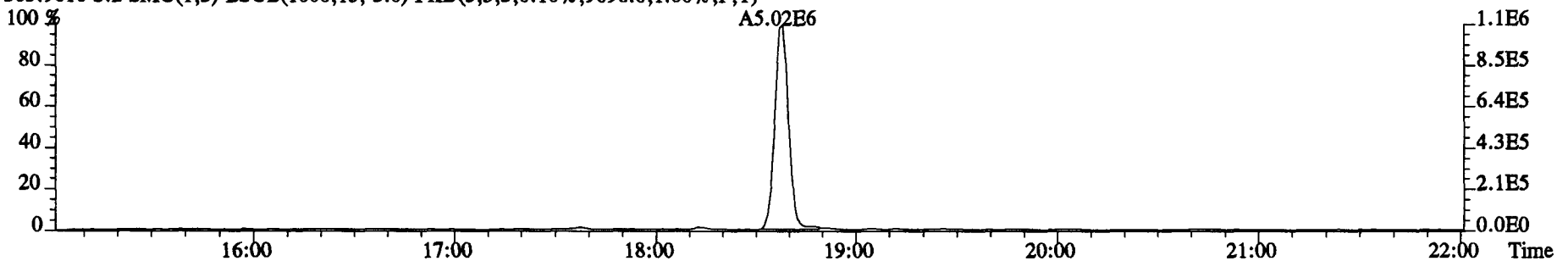
ST1214 :CS-1 10DXN503 ST1214A :CS-2 10DXN504 ST1214B :CS-3 10DXN505
ST1214C :CS-4 10DXN506 ST1214D :CS-5 10DXN507

				14DE10A9D514DE10A9D514DE10A9D514DE10A9D514DE10A9D5				
				S3	S4	S5	S6	S7
Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.114	0.036	3.21 %	1.13	1.15	1.14	1.08	1.08
2,3,7,8-TCDF	0.883	0.033	3.69 %	0.94	0.87	0.87	0.87	0.86
Total TCDF	0.883	0.033	3.69 %	0.94	0.87	0.87	0.87	0.86
13C-2,3,7,8-TCDD	0.972	0.039	4.01 %	0.99	1.00	1.01	0.93	0.93
2,3,7,8-TCDD	0.872	0.039	4.51 %	0.91	0.91	0.82	0.87	0.85
Total TCDD	0.872	0.039	4.51 %	0.91	0.91	0.82	0.87	0.85
37Cl-2,3,7,8-TCDD	1.224	0.037	3.00 %	1.29	1.22	1.21	1.21	1.19
13C-1,2,3,7,8-PeCDF	0.921	0.015	1.64 %	0.93	0.93	0.93	0.90	0.92
1,2,3,7,8-PeCDF	1.065	0.029	2.74 %	1.07	1.11	1.04	1.05	1.05
2,3,4,7,8-PeCDF	1.028	0.029	2.82 %	1.04	1.07	1.00	1.02	1.01
Total F2 PeCDF	1.046	0.029	2.77 %	1.05	1.09	1.02	1.03	1.03
Total F1 PeCDF	1.046	0.029	2.77 %	1.05	1.09	1.02	1.03	1.03
13C-1,2,3,7,8-PeCDD	0.829	0.013	1.57 %	0.83	0.82	0.84	0.81	0.84
1,2,3,7,8-PeCDD	0.793	0.025	3.17 %	0.79	0.84	0.77	0.79	0.78
Total PeCDD	0.793	0.025	3.17 %	0.79	0.84	0.77	0.79	0.78
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-
13C-1,2,3,4,7,8-HxCDF	1.072	0.048	4.45 %	1.04	1.09	1.15	1.03	1.05
1,2,3,4,7,8-HxCDF	1.063	0.048	4.49 %	1.10	1.11	1.00	1.06	1.03
1,2,3,6,7,8-HxCDF	1.122	0.057	5.06 %	1.18	1.18	1.08	1.12	1.05
2,3,4,6,7,8-HxCDF	1.048	0.041	3.96 %	1.10	1.08	1.00	1.05	1.01
1,2,3,7,8,9-HxCDF	0.953	0.041	4.28 %	0.99	1.00	0.91	0.94	0.92
Total HxCDF	1.046	0.046	4.37 %	1.09	1.09	1.00	1.05	1.00
13C-1,2,3,6,7,8-HxCDD	0.888	0.046	5.21 %	0.87	0.93	0.94	0.84	0.85
1,2,3,4,7,8-HxCDD	1.114	0.066	5.92 %	1.18	1.12	1.01	1.15	1.11

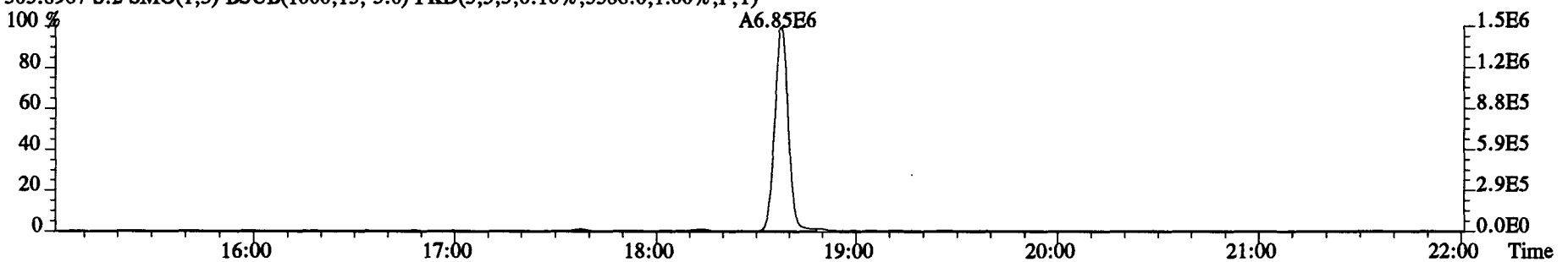
1,2,3,6,7,8-HxCDD	1.159	0.042	3.60 %	1.21	1.17	1.16	1.15	1.10
1,2,3,7,8,9-HxCDD	1.202	0.042	3.49 %	1.26	1.20	1.16	1.22	1.17
Total HxCDD	1.158	0.044	3.80 %	1.22	1.17	1.11	1.17	1.13
13C-1,2,3,4,6,7,8-HpCDF	0.948	0.024	2.48 %	0.94	0.95	0.99	0.93	0.93
1,2,3,4,6,7,8-HpCDF	1.435	0.063	4.40 %	1.50	1.50	1.39	1.41	1.36
1,2,3,4,7,8,9-HpCDF	1.227	0.052	4.20 %	1.28	1.29	1.18	1.19	1.19
Total HpCDF	1.331	0.057	4.25 %	1.39	1.39	1.29	1.30	1.28
13C-1,2,3,4,6,7,8-HpCDD	1.075	0.030	2.75 %	1.06	1.07	1.13	1.06	1.05
1,2,3,4,6,7,8-HpCDD	0.895	0.032	3.57 %	0.93	0.93	0.87	0.88	0.87
Total HpCDD	0.895	0.032	3.57 %	0.93	0.93	0.87	0.88	0.87
13C-OCDD	0.690	0.017	2.46 %	0.70	0.68	0.70	0.66	0.69
OCDF	1.180	0.028	2.37 %	1.18	1.22	1.14	1.18	1.17
OCDD	1.139	0.055	4.82 %	1.20	1.20	1.10	1.12	1.08

File:15DE109D5 #1-464 Acq:15-DEC-2010 10:37:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1215 :CS-3 10DXN505 Exp:DIOXINRES

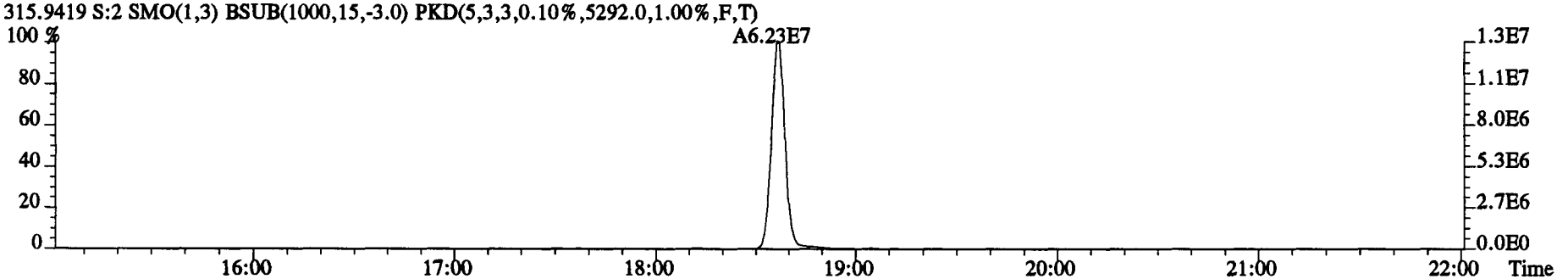
303.9016 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9696.0,1.00%,F,T)



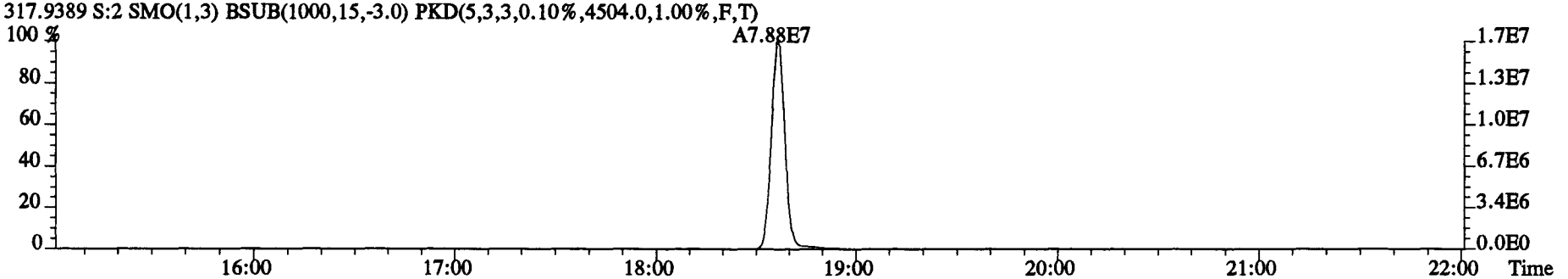
305.8987 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5588.0,1.00%,F,T)



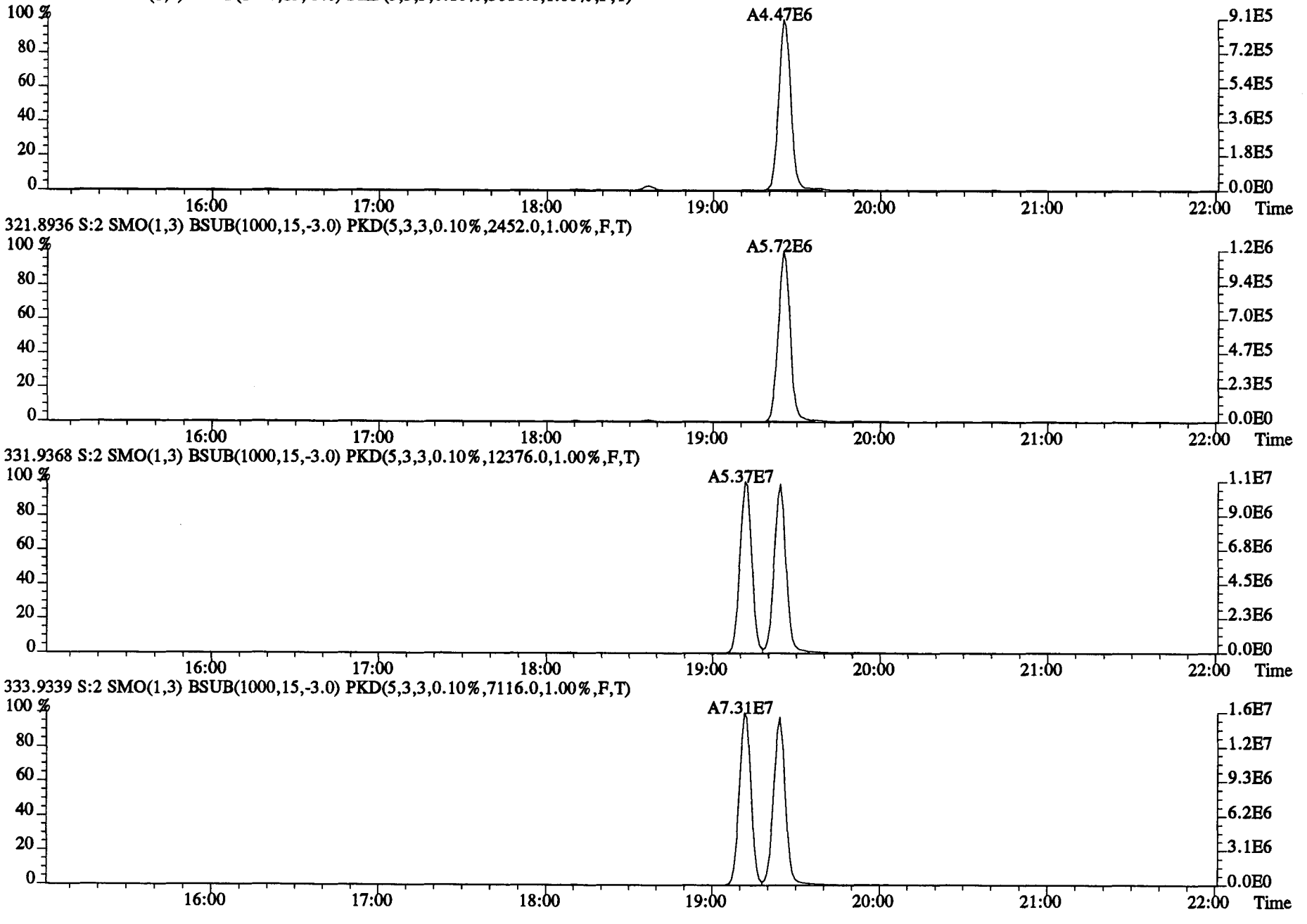
315.9419 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5292.0,1.00%,F,T)



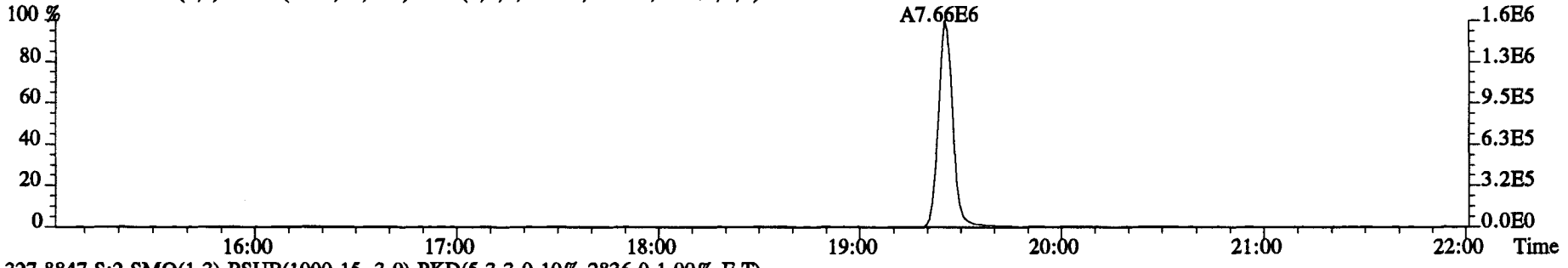
317.9389 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4504.0,1.00%,F,T)



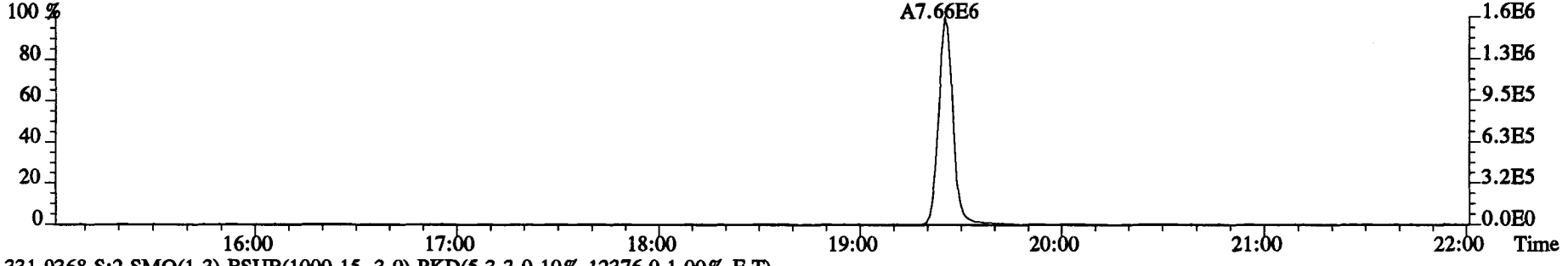
File:15DE109D5 #1-464 Acq:15-DEC-2010 10:37:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1215 :CS-3 10DXN505 Exp:DIOXINRES



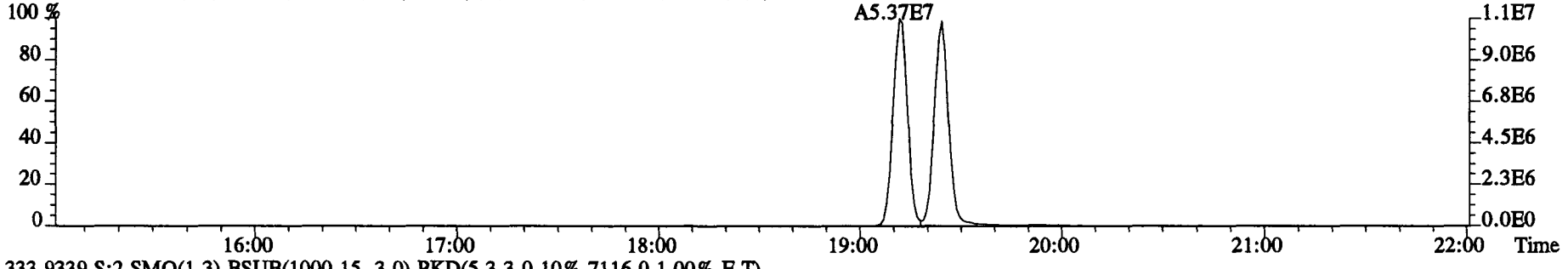
File:15DE109D5 #1-464 Acq:15-DEC-2010 10:37:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1215 :CS-3 10DXN505 Exp:DIOXINRES
327.8847 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2836.0,1.00%,F,T)



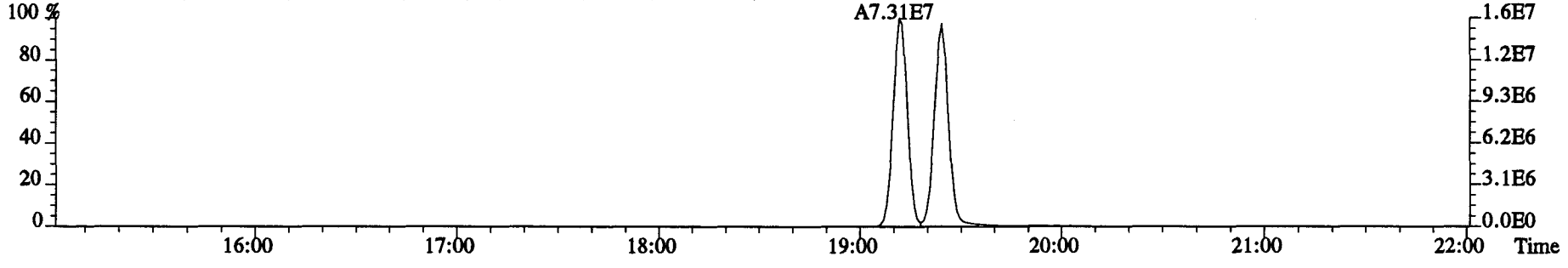
327.8847 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2836.0,1.00%,F,T)



331.9368 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12376.0,1.00%,F,T)

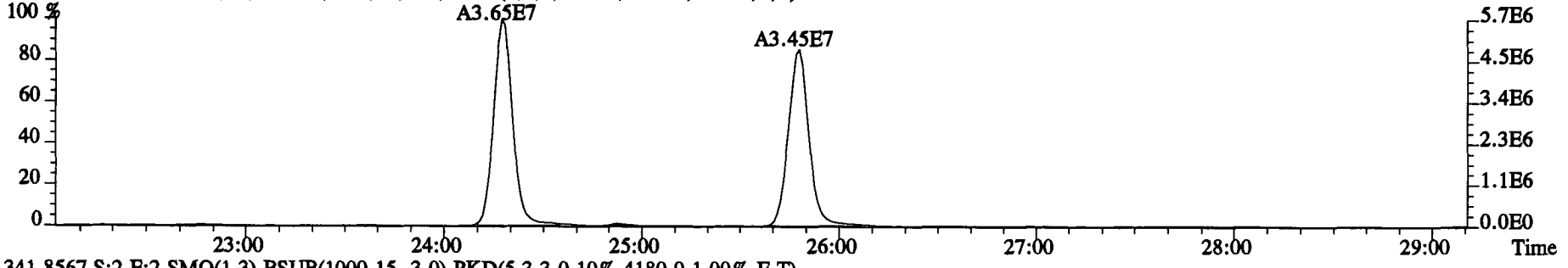


333.9339 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7116.0,1.00%,F,T)

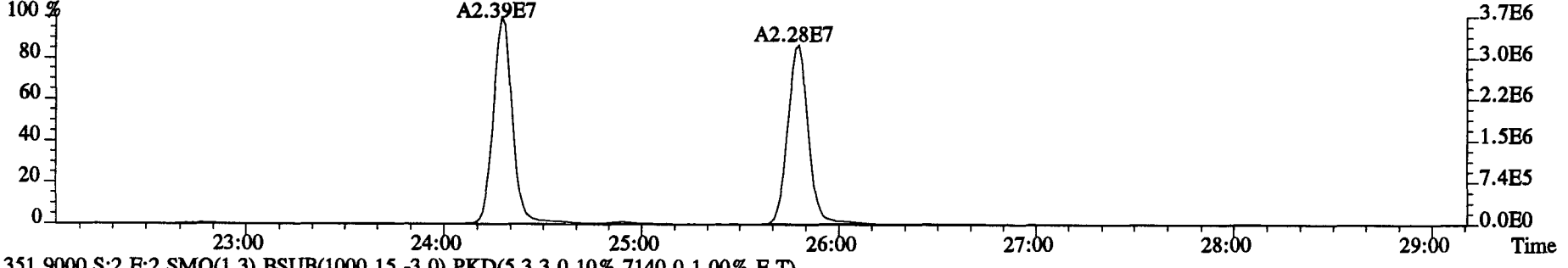


File:15DE109D5 #1-459 Acq:15-DEC-2010 10:37:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1215 :CS-3 10DXN505 Exp:DIOXINRES

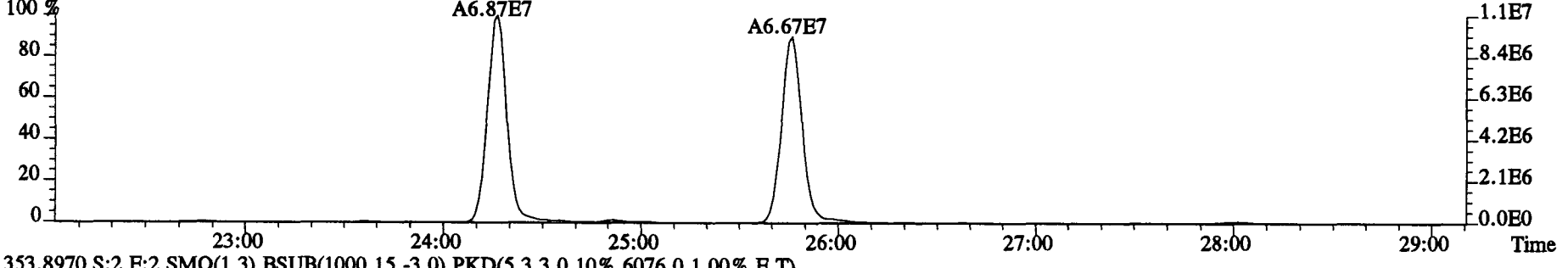
339.8597 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9948.0,1.00%,F,T)



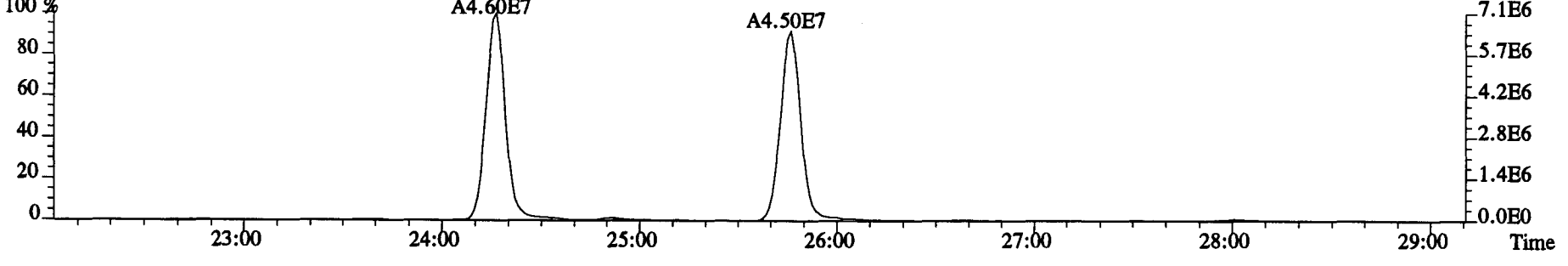
341.8567 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4180.0,1.00%,F,T)



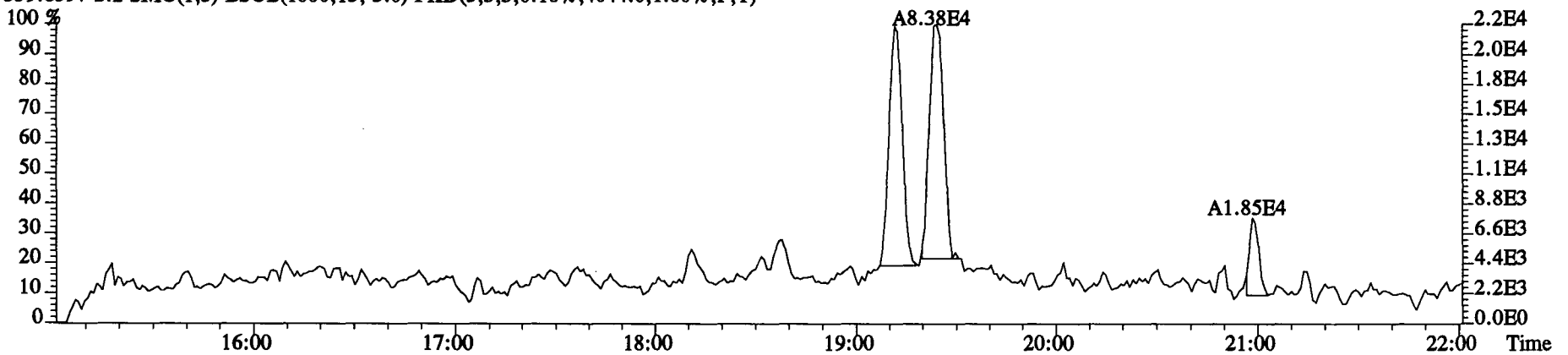
351.9000 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7140.0,1.00%,F,T)



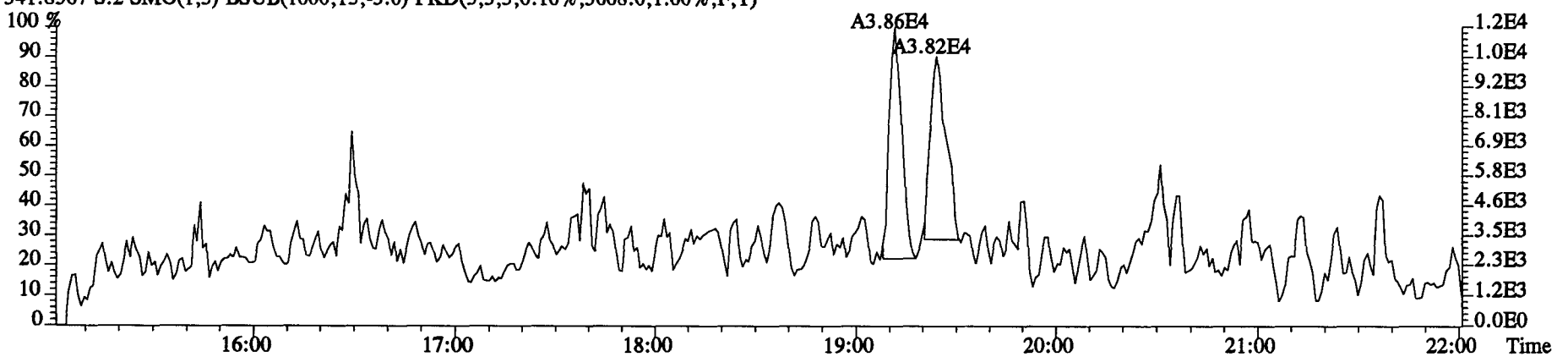
353.8970 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6076.0,1.00%,F,T)



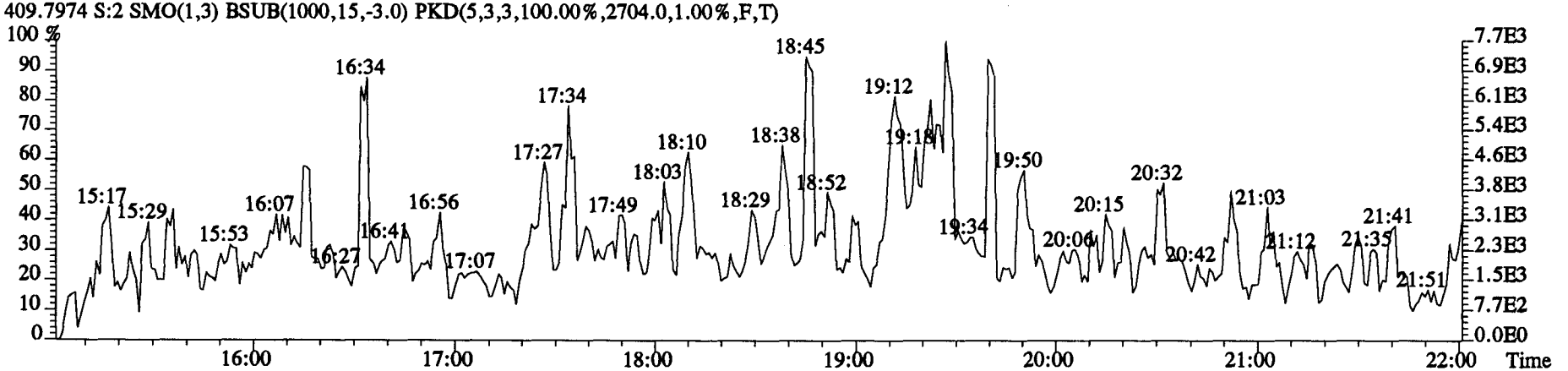
File:15DE109D5 #1-464 Acq:15-DEC-2010 10:37:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1215 :CS-3 10DXN505 Exp:DIOXINRES
339.8597 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4044.0,1.00%,F,T)



341.8567 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3608.0,1.00%,F,T)

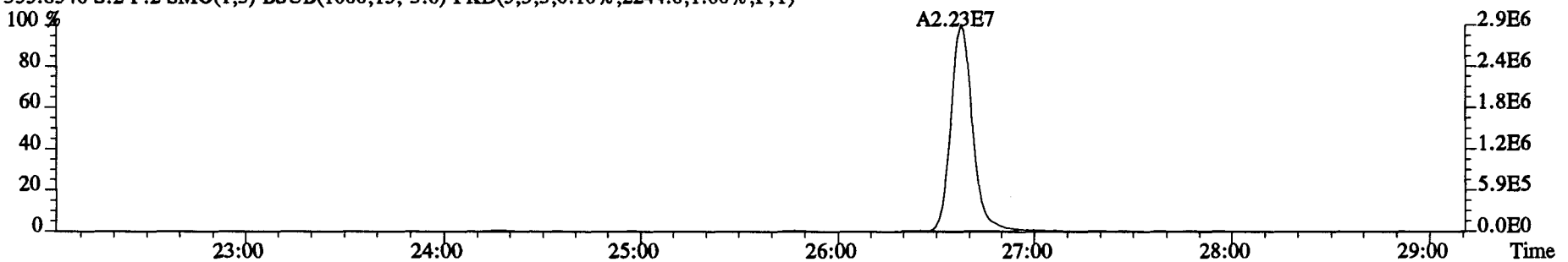


409.7974 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2704.0,1.00%,F,T)

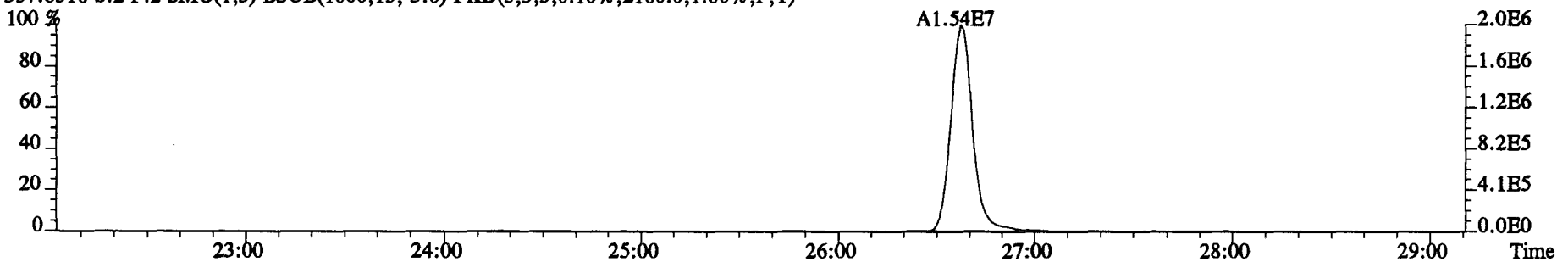


File:15DE109D5 #1-459 Acq:15-DEC-2010 10:37:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1215 :CS-3 10DXN505 Exp:DIOXINRES

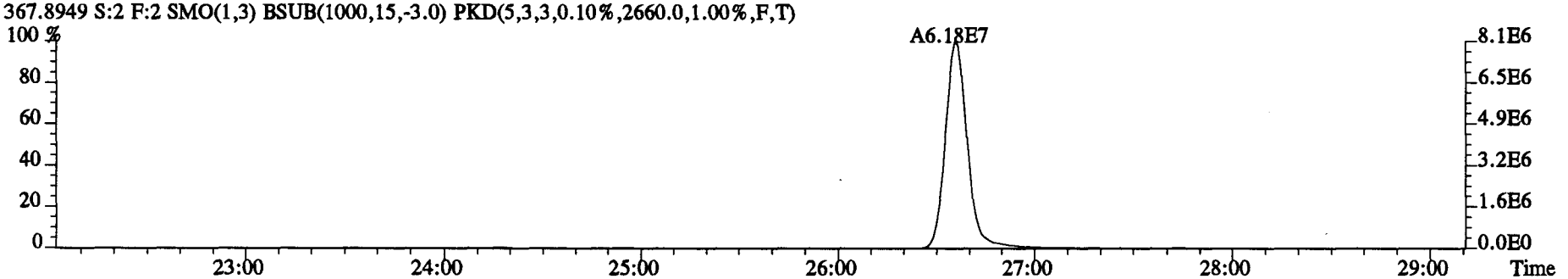
355.8546 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2244.0,1.00%,F,T)



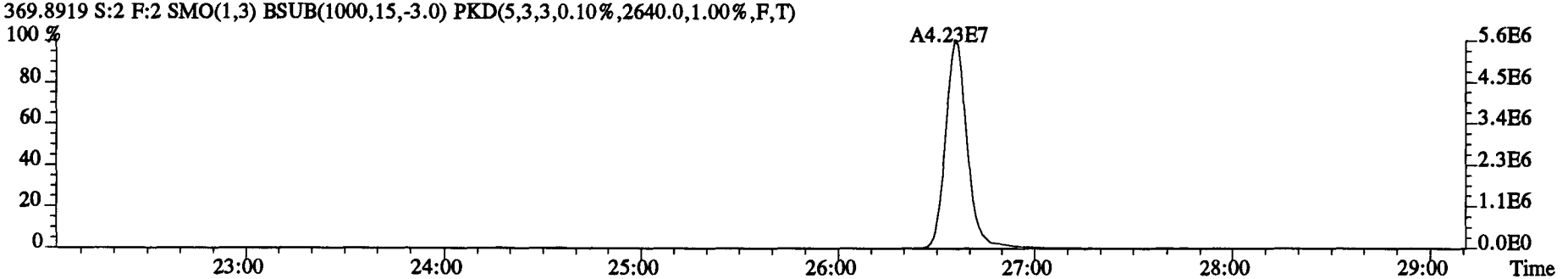
357.8516 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2160.0,1.00%,F,T)



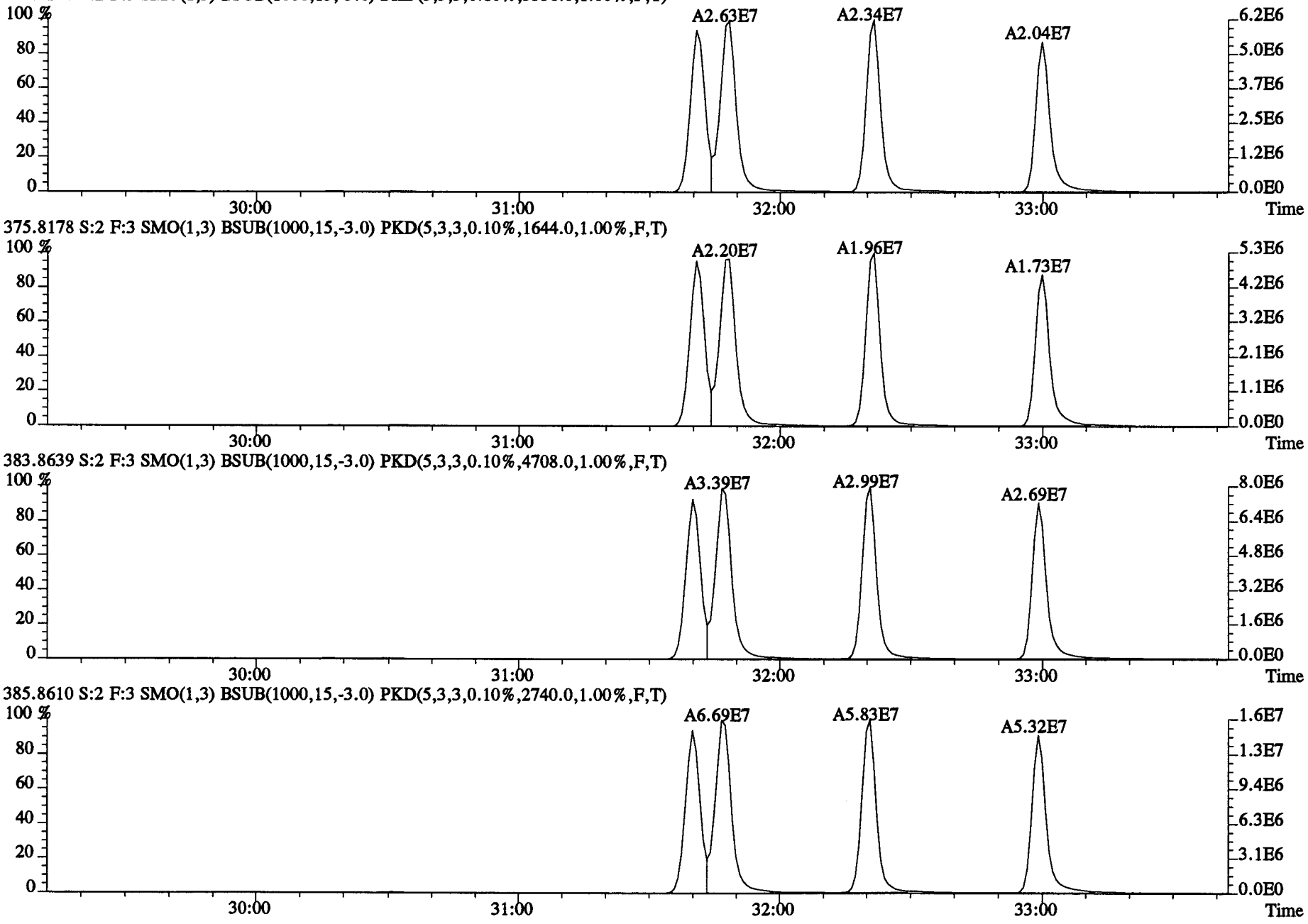
367.8949 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2660.0,1.00%,F,T)



369.8919 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2640.0,1.00%,F,T)

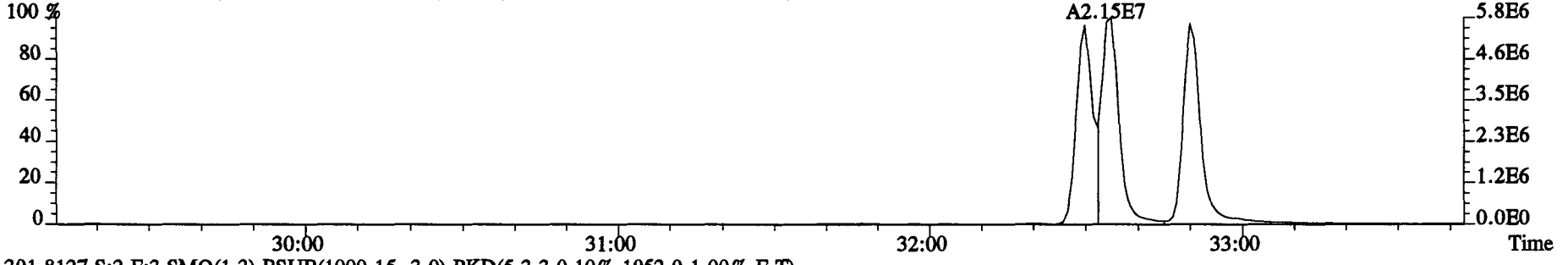


File:15DE109D5 #1-325 Acq:15-DEC-2010 10:37:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1215 :CS-3 10DXN505 Exp:DIOXINRES

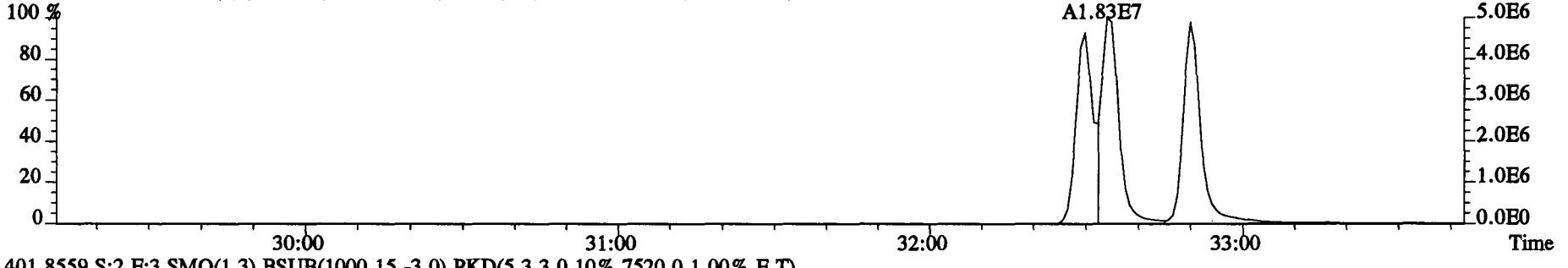


File:15DE109D5 #1-325 Acq:15-DEC-2010 10:37:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1215 :CS-3 10DXN505 Exp:DIOXINRES

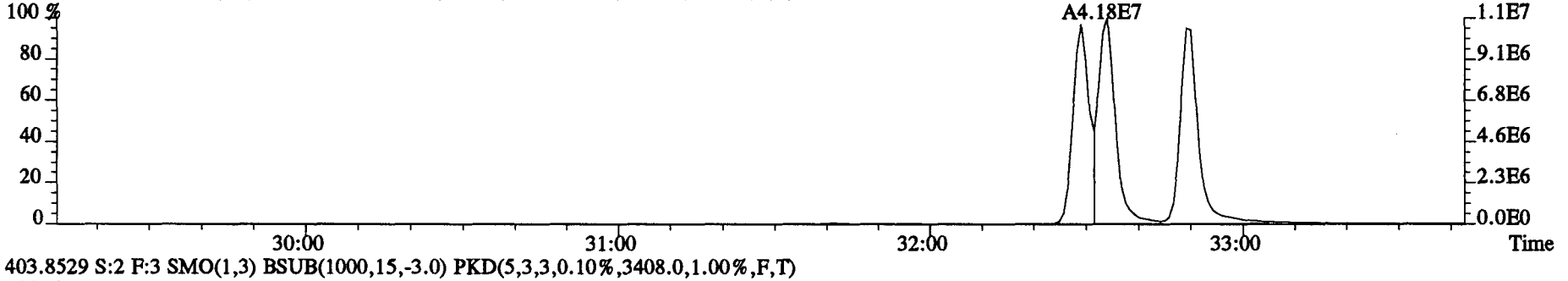
389.8157 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7176.0,1.00%,F,T)



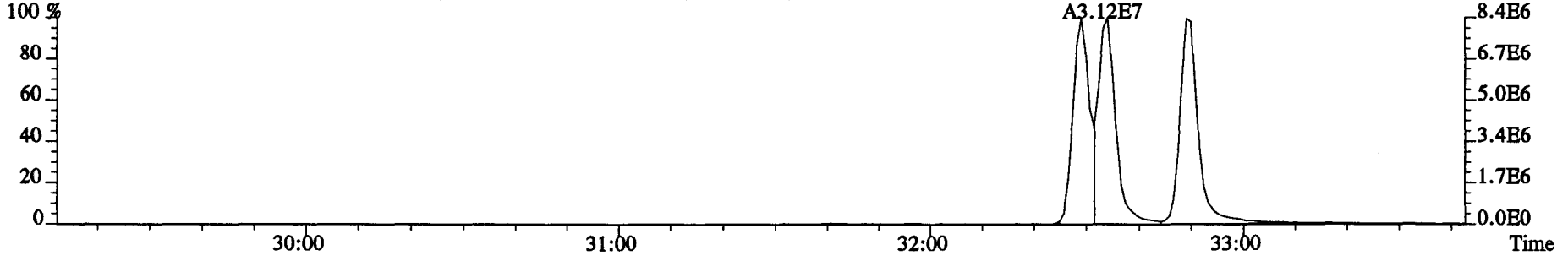
391.8127 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1952.0,1.00%,F,T)



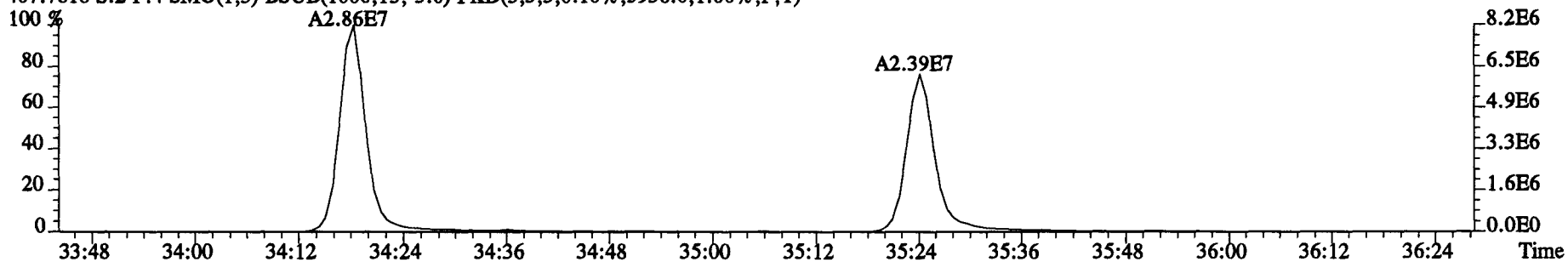
401.8559 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7520.0,1.00%,F,T)

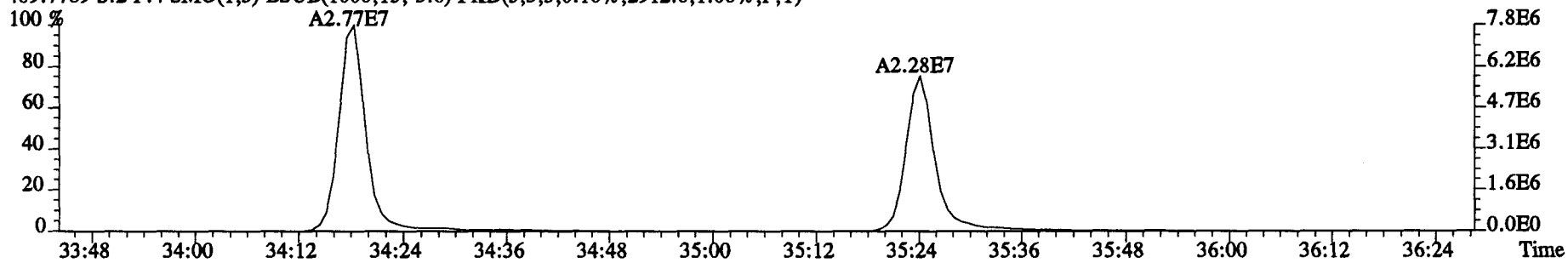


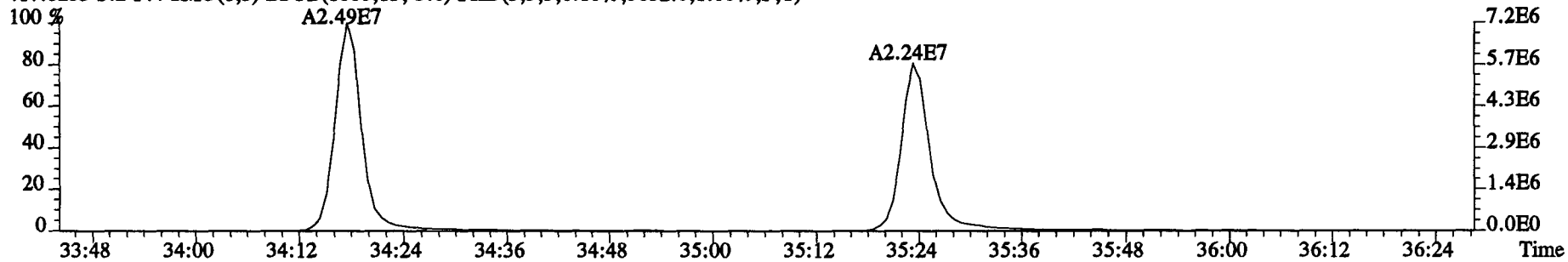
403.8529 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3408.0,1.00%,F,T)

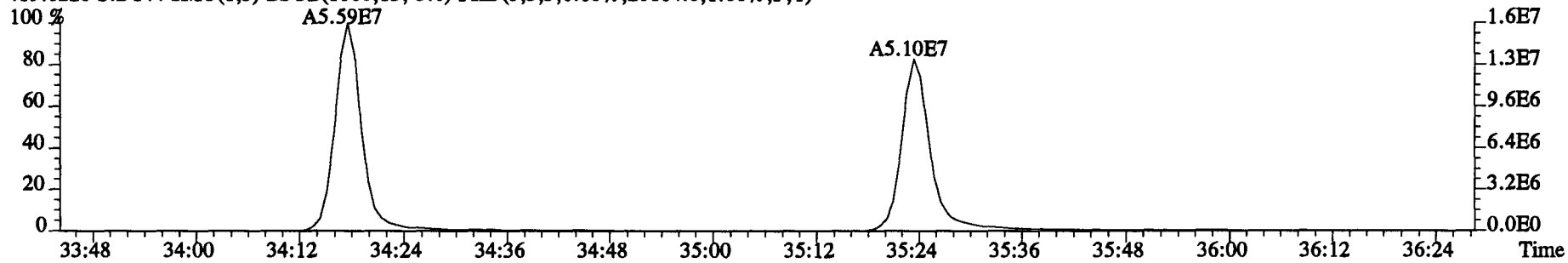


File:15DE109D5 #1-208 Acq:15-DEC-2010 10:37:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1215 :CS-3 10DXN505 Exp:DIOXINRES



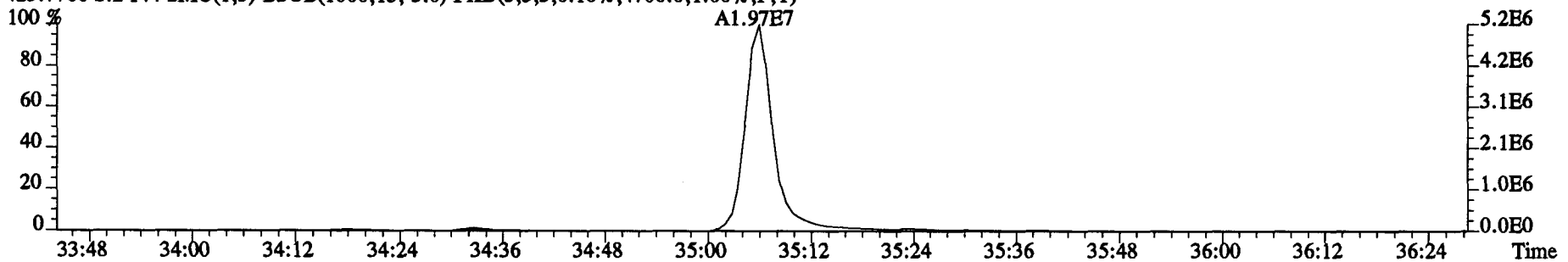




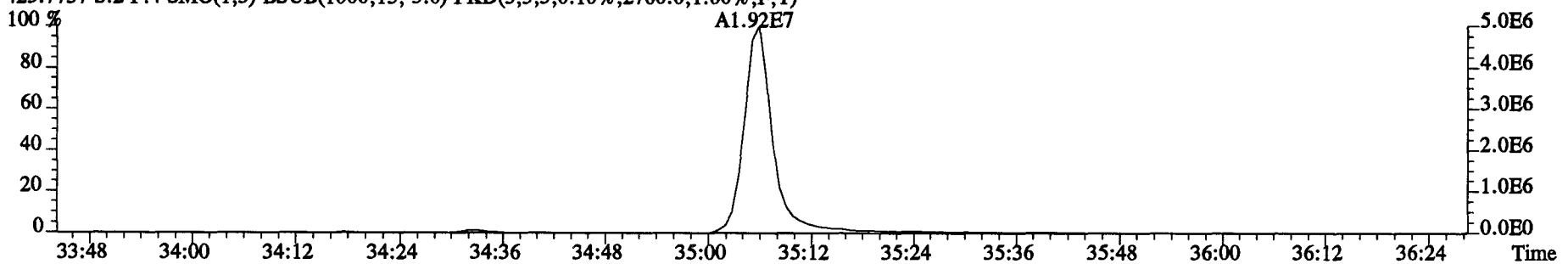


File:15DE109D5 #1-208 Acq:15-DEC-2010 10:37:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1215 :CS-3 10DXN505 Exp:DIOXINRES

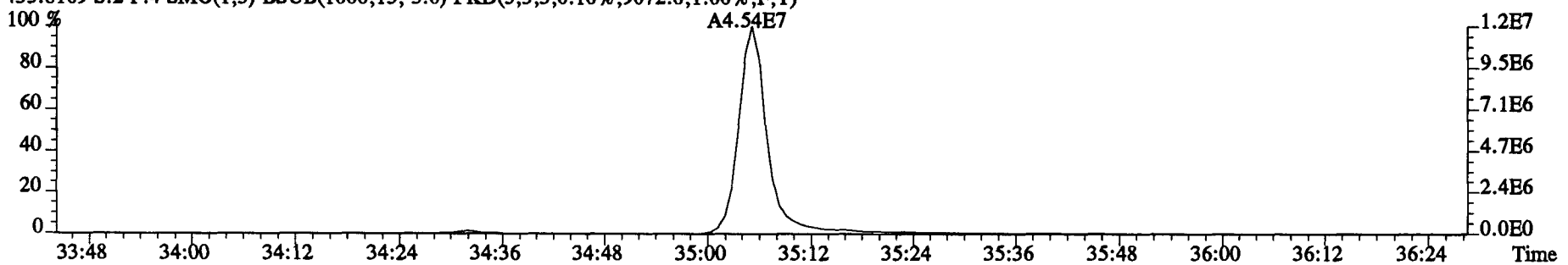
423.7766 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4700.0,1.00%,F,T)



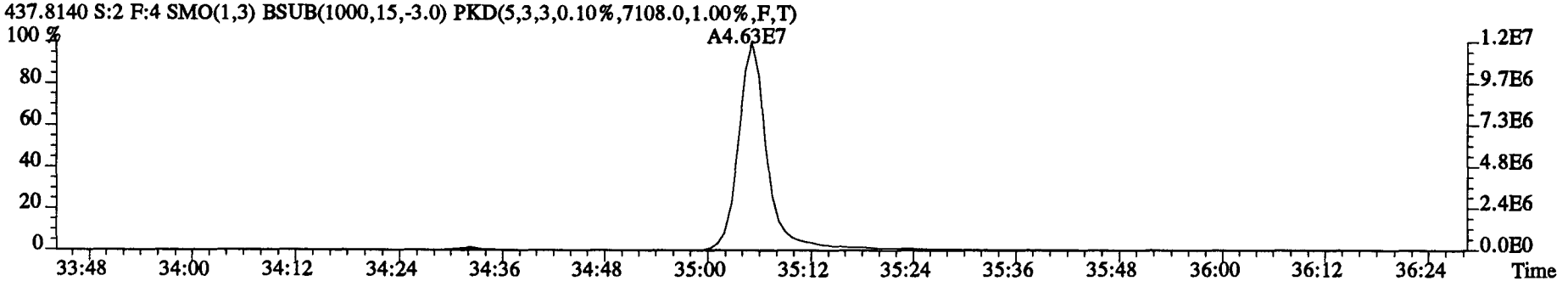
425.7737 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2760.0,1.00%,F,T)



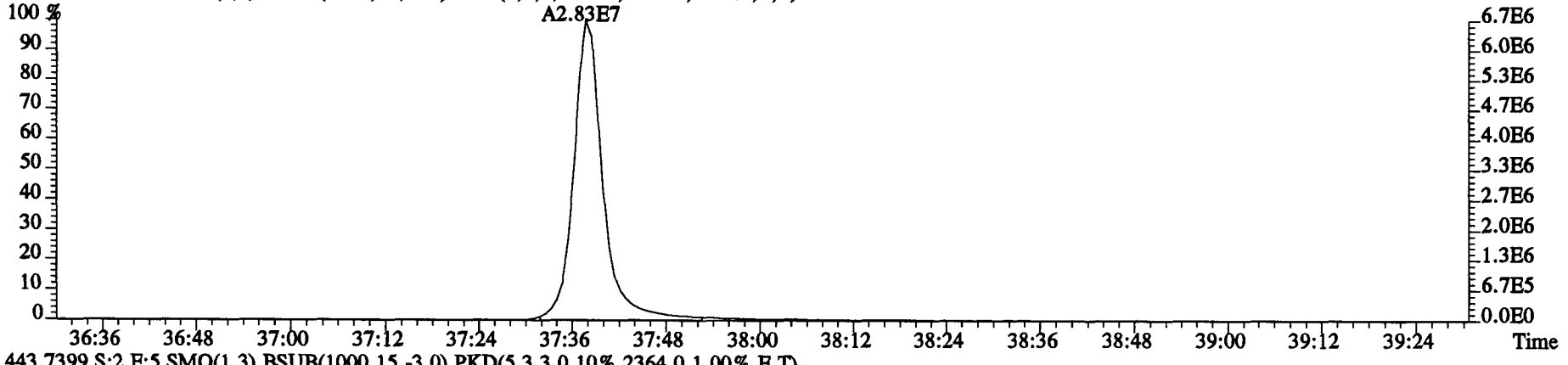
435.8169 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9072.0,1.00%,F,T)



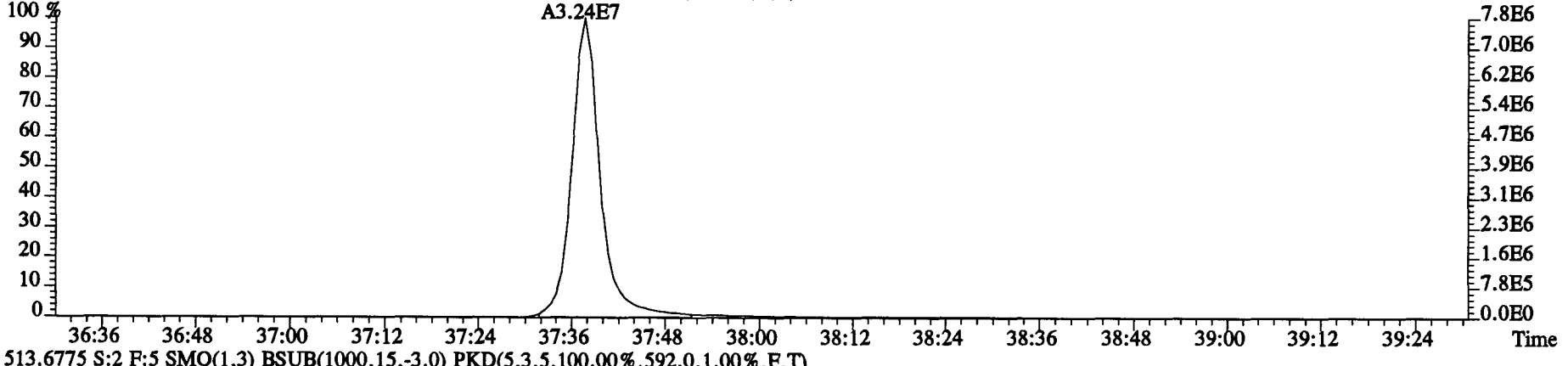
437.8140 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7108.0,1.00%,F,T)



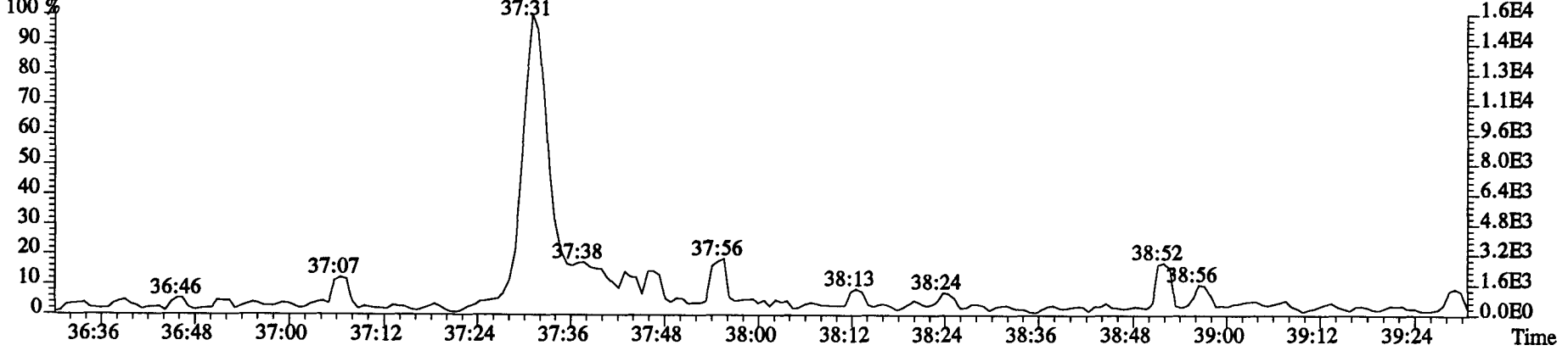
File:15DE109D5 #1-244 Acq:15-DEC-2010 10:37:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1215 :CS-3 10DXN505 Exp:DIOXINRES
441.7428 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2144.0,1.00%,F,T)



443.7399 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2364.0,1.00%,F,T)

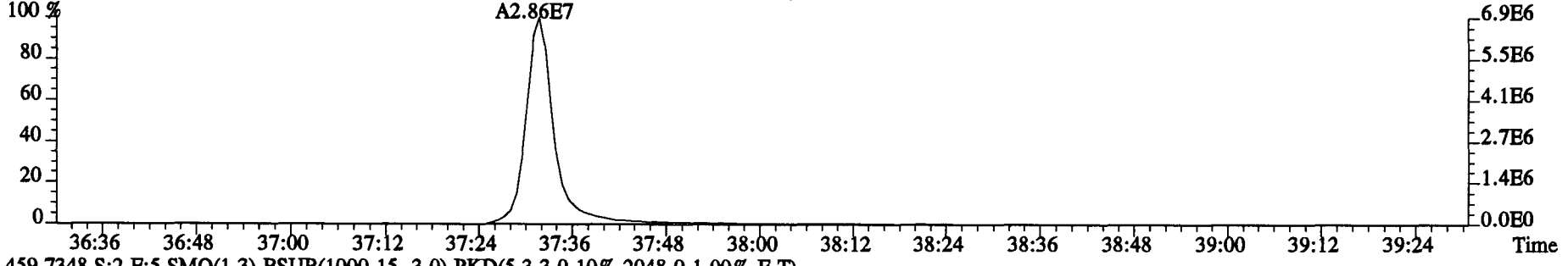


513.6775 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,592.0,1.00%,F,T)

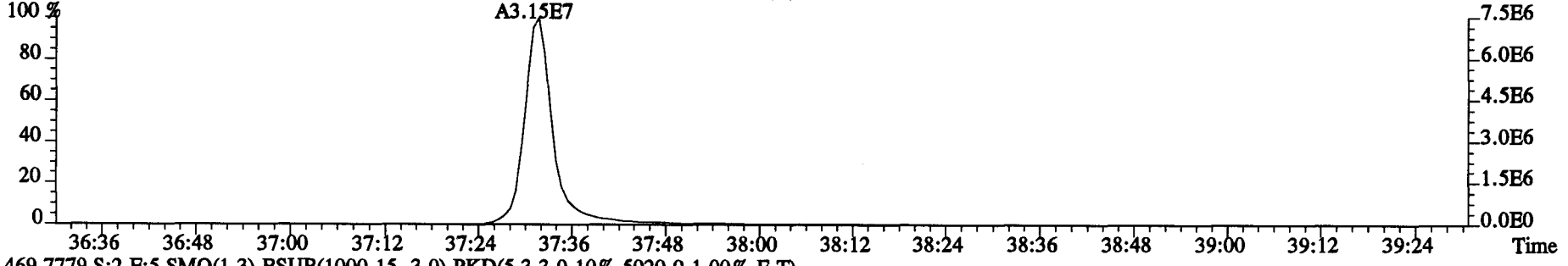


File:15DE109D5 #1-244 Acq:15-DEC-2010 10:37:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1215 :CS-3 10DXN505 Exp:DIOXINRES

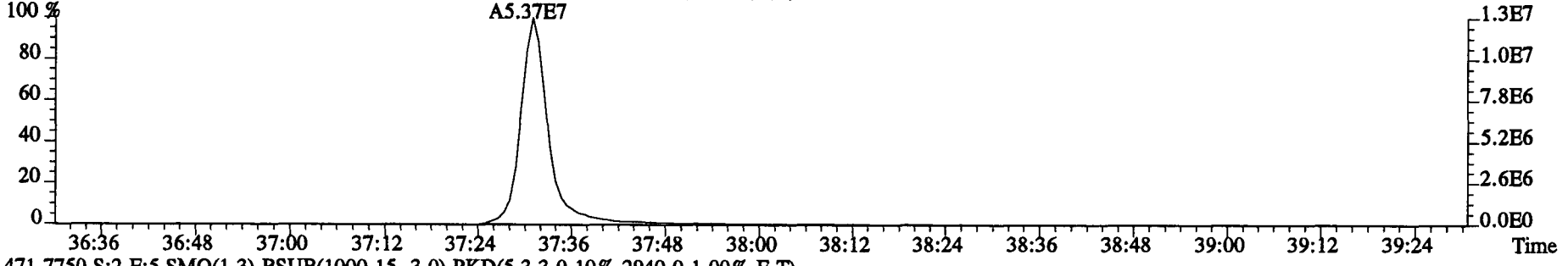
457.7377 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4228.0,1.00%,F,T)



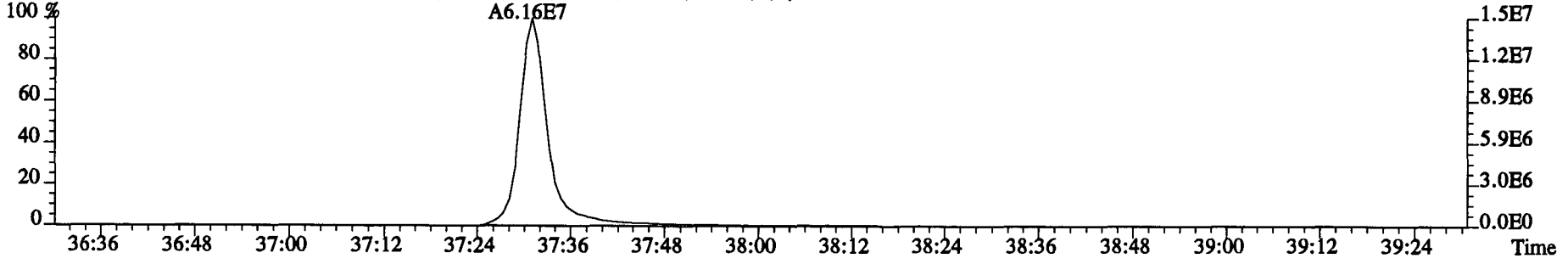
459.7348 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2048.0,1.00%,F,T)



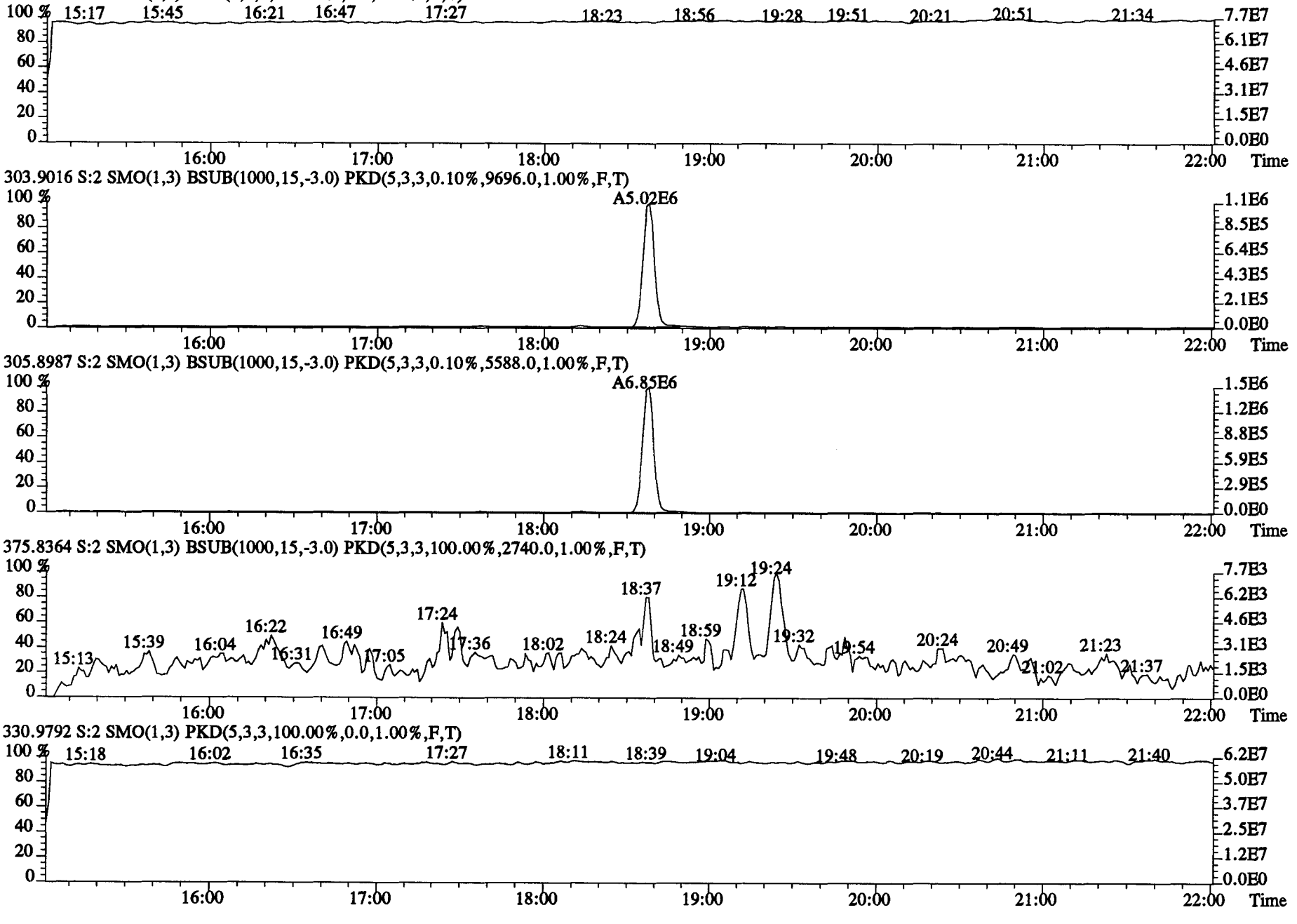
469.7779 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5020.0,1.00%,F,T)



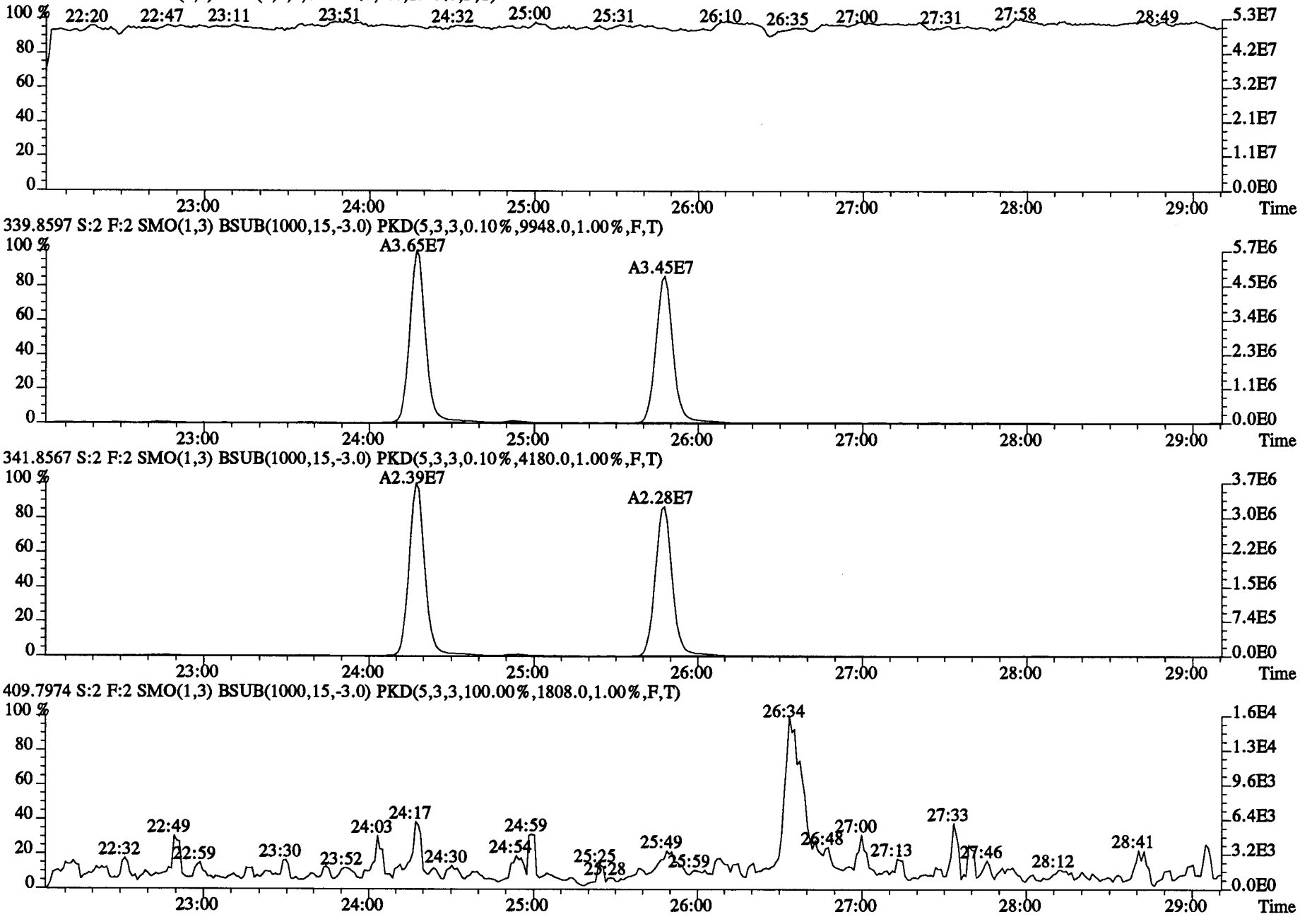
471.7750 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2940.0,1.00%,F,T)



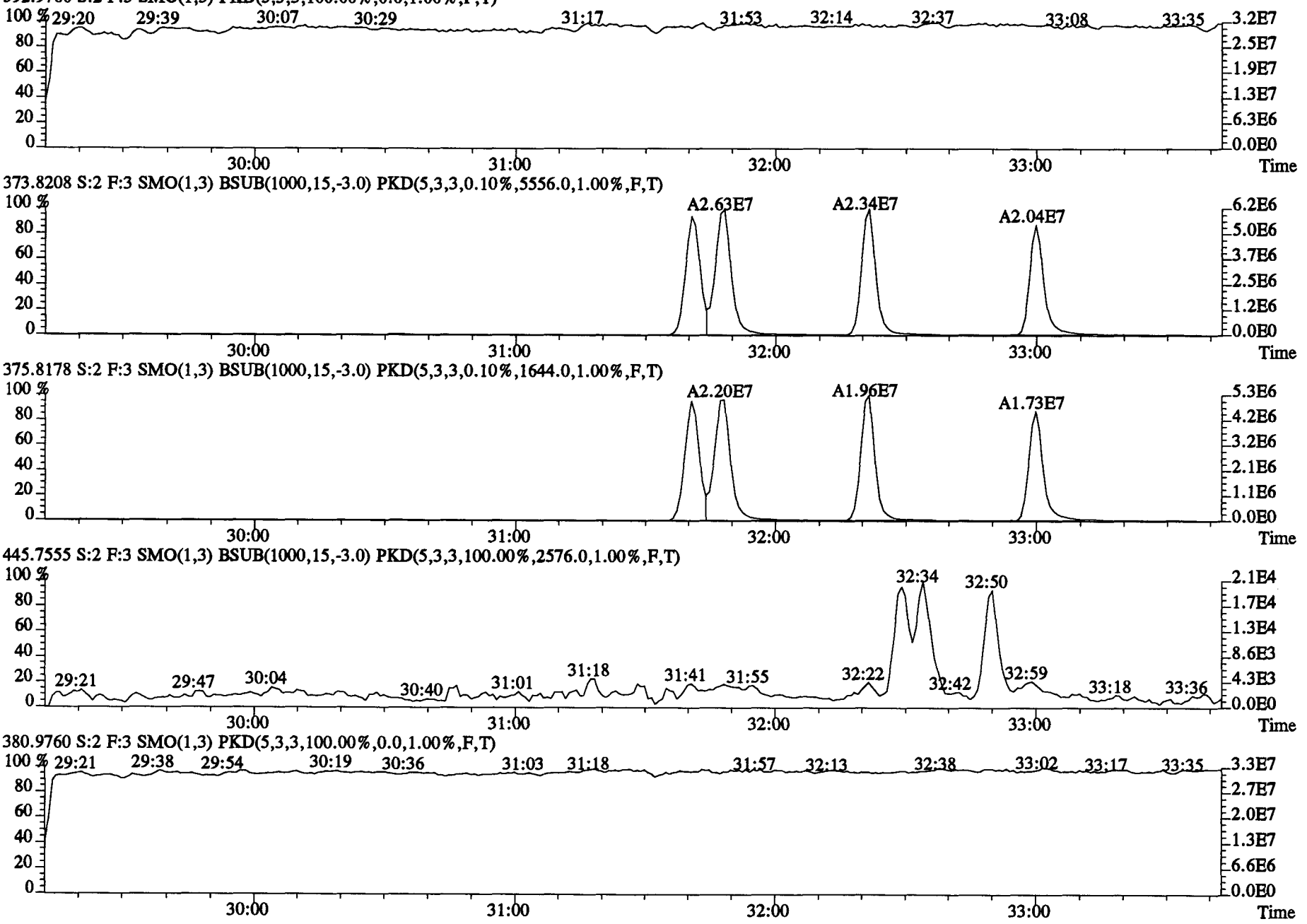
File:15DE109D5 #1-464 Acq:15-DEC-2010 10:37:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1215 :CS-3 10DXN505 Exp:DIOXINRES



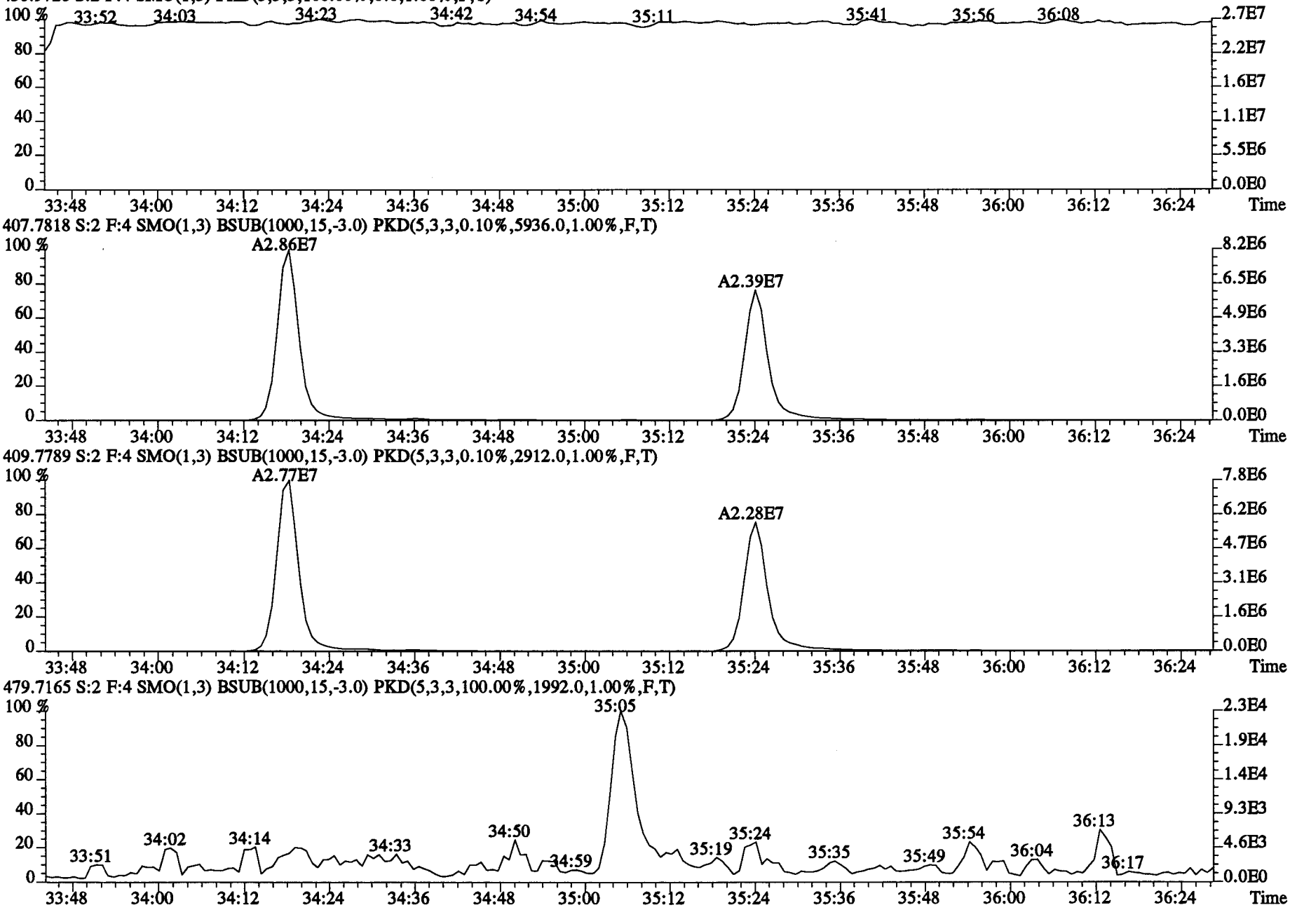
File:15DE109D5 #1-459 Acq:15-DEC-2010 10:37:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1215 :CS-3 10DXN505 Exp:DIOXINRES



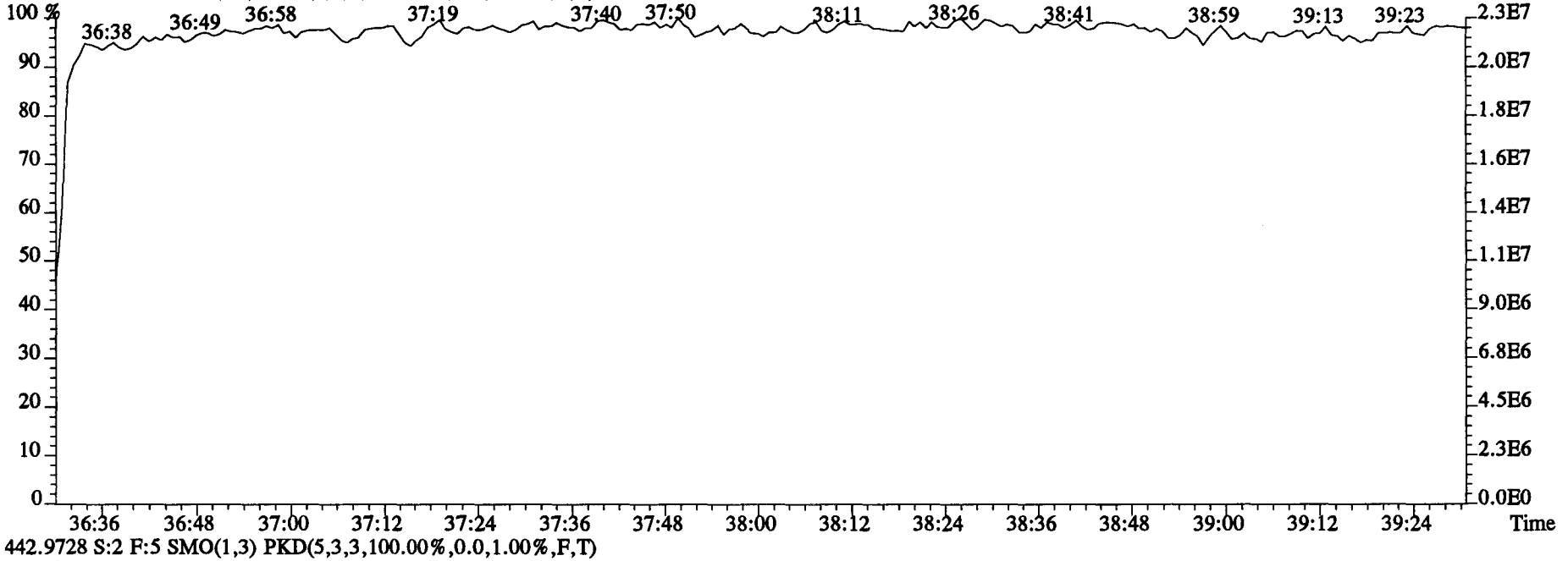
File:15DE109D5 #1-325 Acq:15-DEC-2010 10:37:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1215 :CS-3 10DXN505 Exp:DIOXINRES



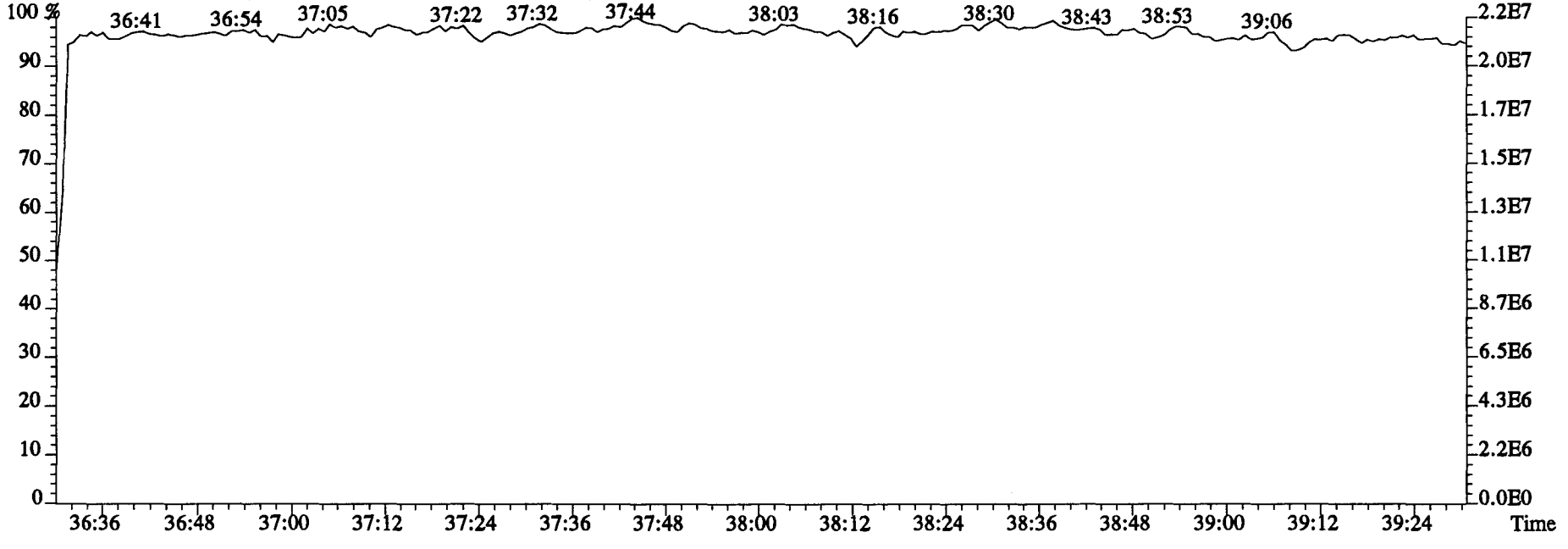
File:15DE109D5 #1-208 Acq:15-DEC-2010 10:37:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1215 :CS-3 10DXN505 Exp:DIOXINRES



File:15DE109D5 #1-244 Acq:15-DEC-2010 10:37:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1215 :CS-3 10DXN505 Exp:DIOXINRES
454.9728 S:2 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

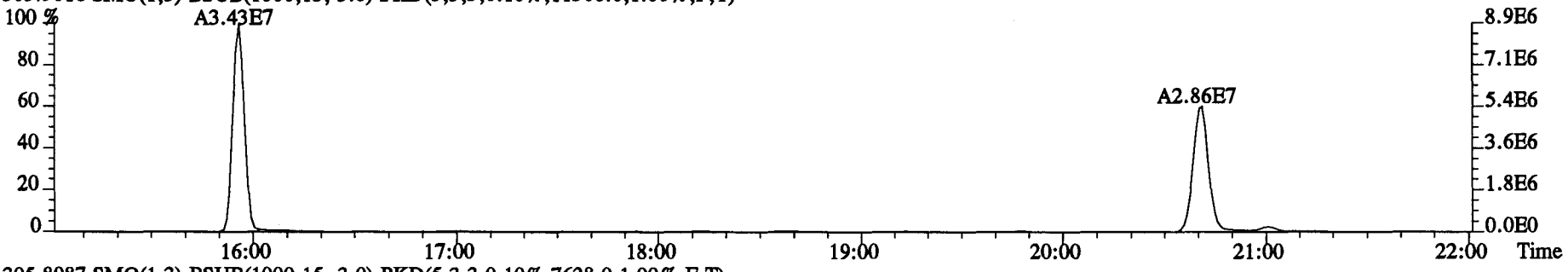


442.9728 S:2 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

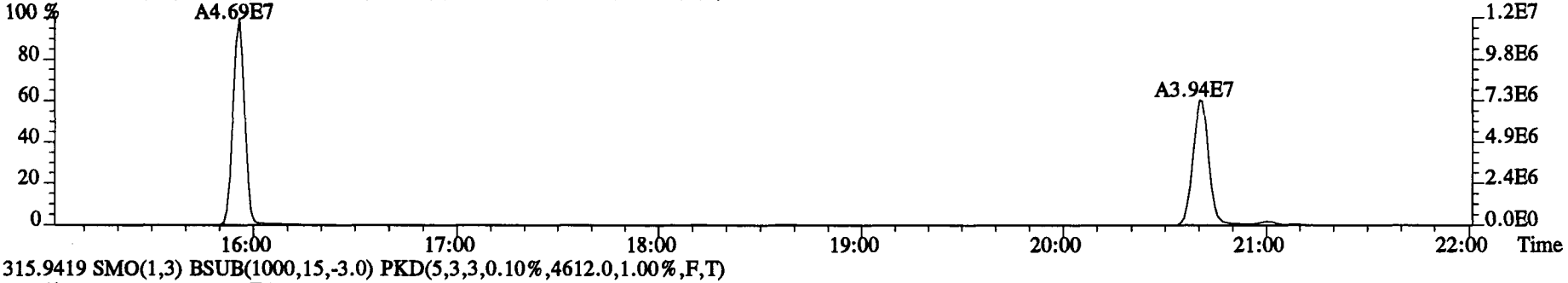


File:15DE109D5 #1-464 Acq:15-DEC-2010 09:53:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1215 :DB-5 CPSM 3732-08 Exp:DIOXINRES

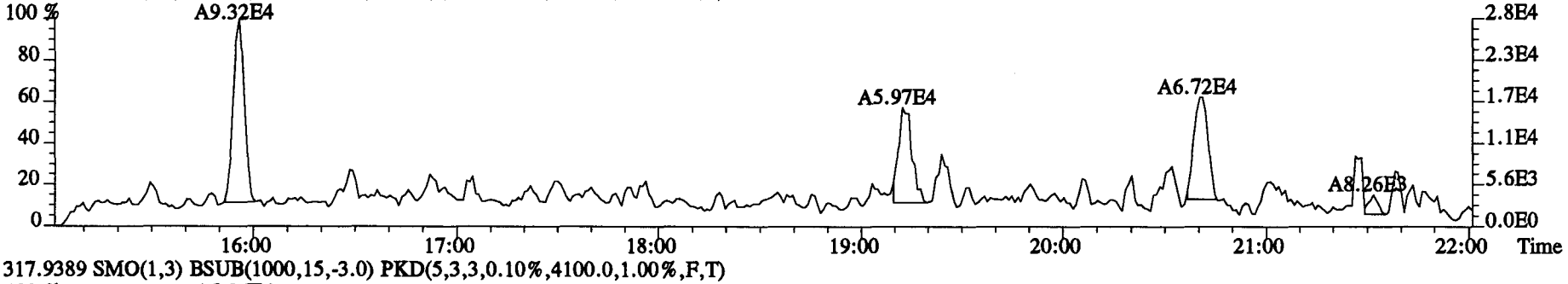
303.9016 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11308.0,1.00%,F,T)



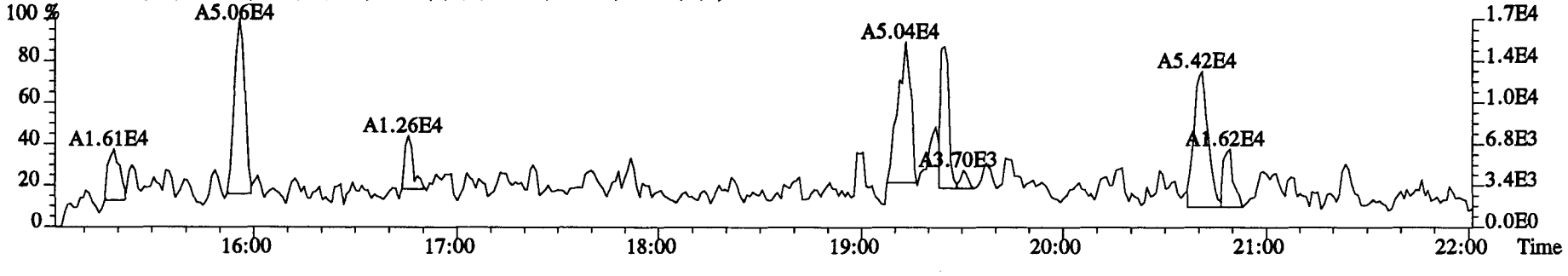
305.8987 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7628.0,1.00%,F,T)



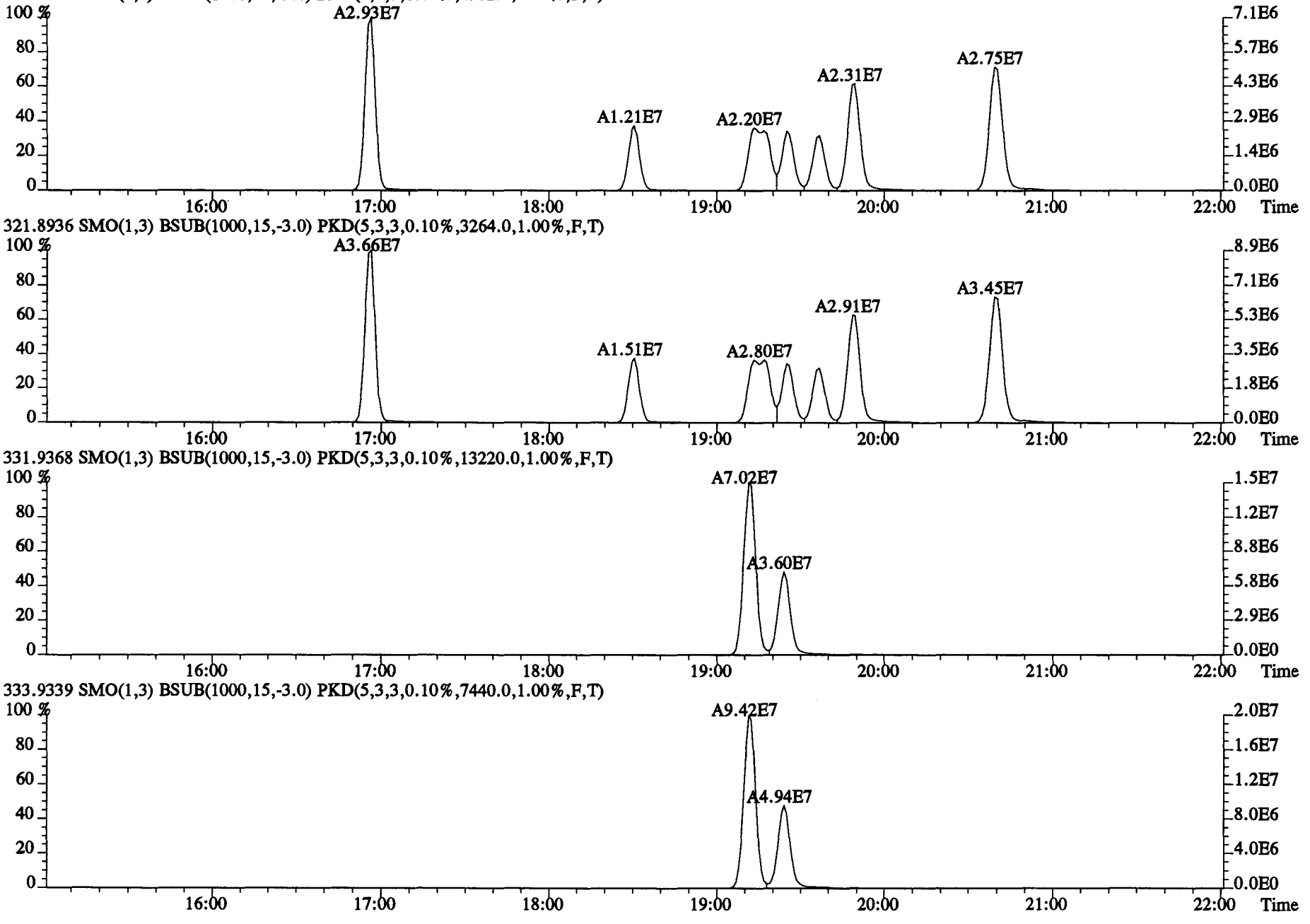
315.9419 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4612.0,1.00%,F,T)



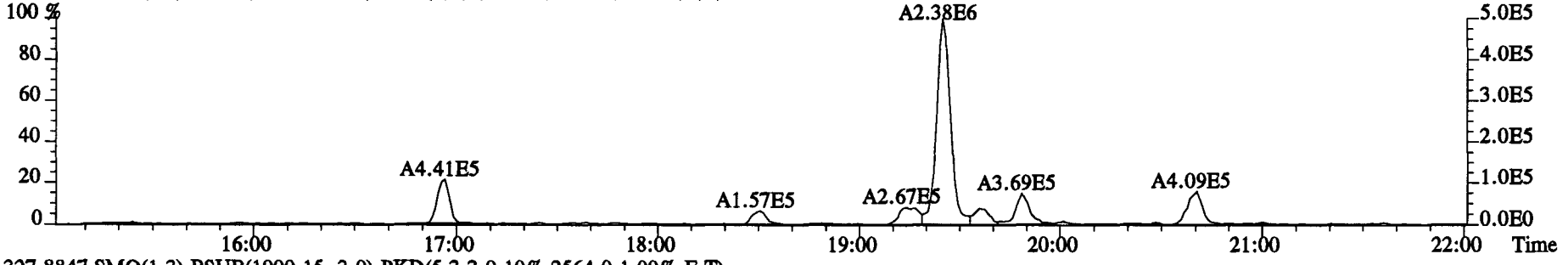
317.9389 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4100.0,1.00%,F,T)



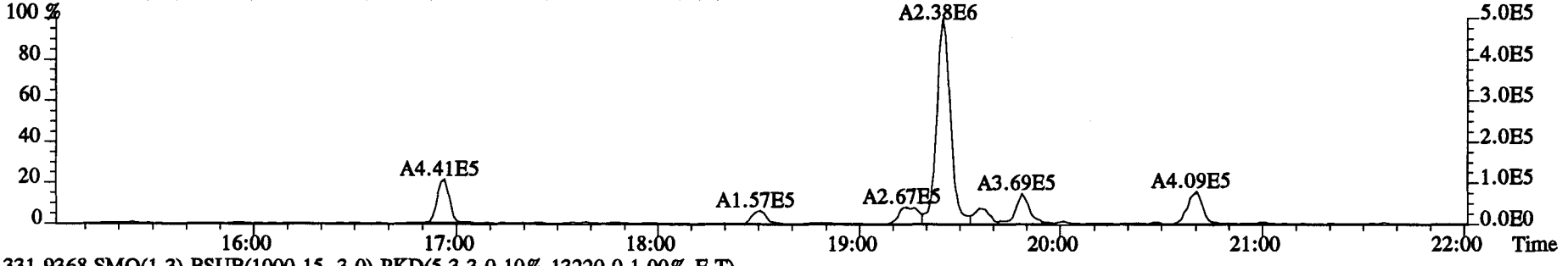
File:15DE109D5 #1-464 Acq:15-DEC-2010 09:53:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1215 :DB-5 CPSM 3732-08 Exp:DIOXINRES



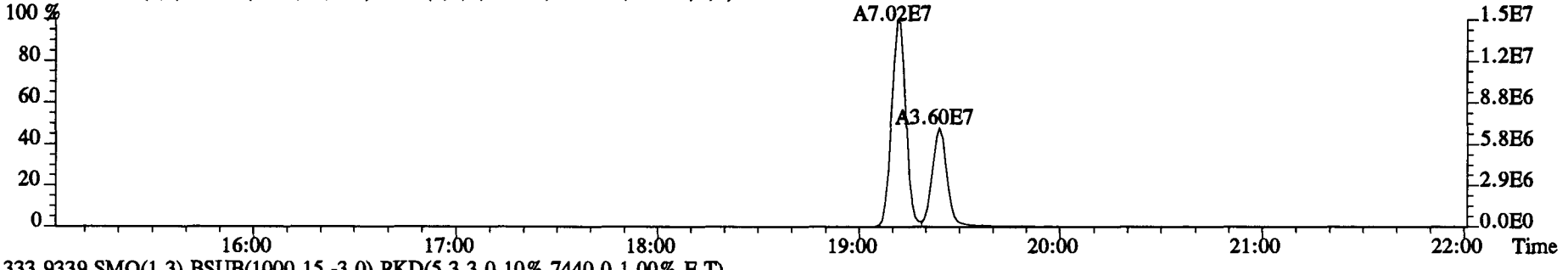
File:15DE109D5 #1-464 Acq:15-DEC-2010 09:53:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1215 :DB-5 CPSM 3732-08 Exp:DIOXINRES
327.8847 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2564.0,1.00%,F,T)



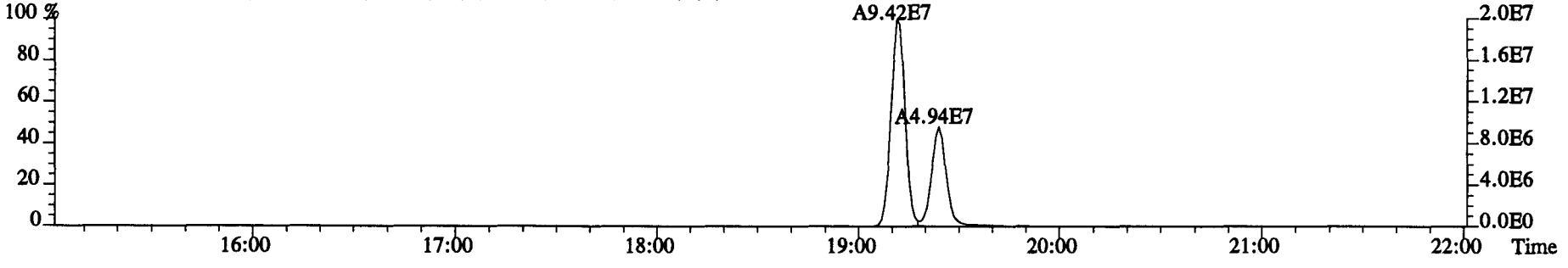
327.8847 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2564.0,1.00%,F,T)



331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13220.0,1.00%,F,T)

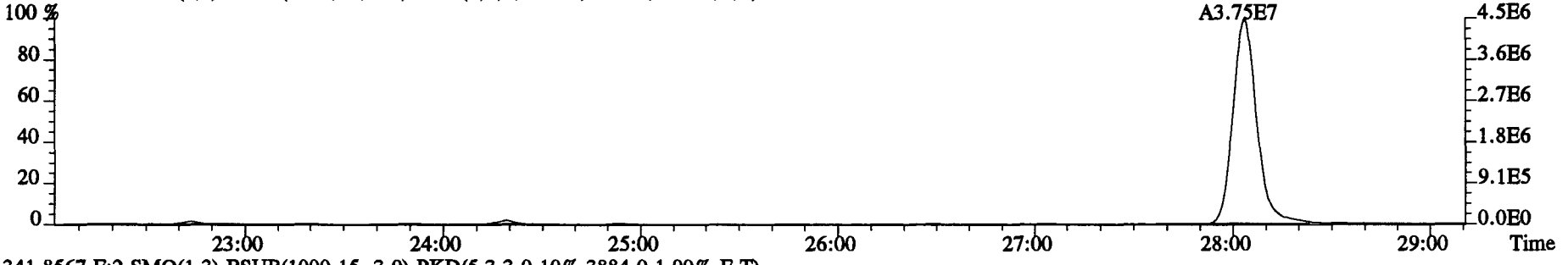


333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7440.0,1.00%,F,T)

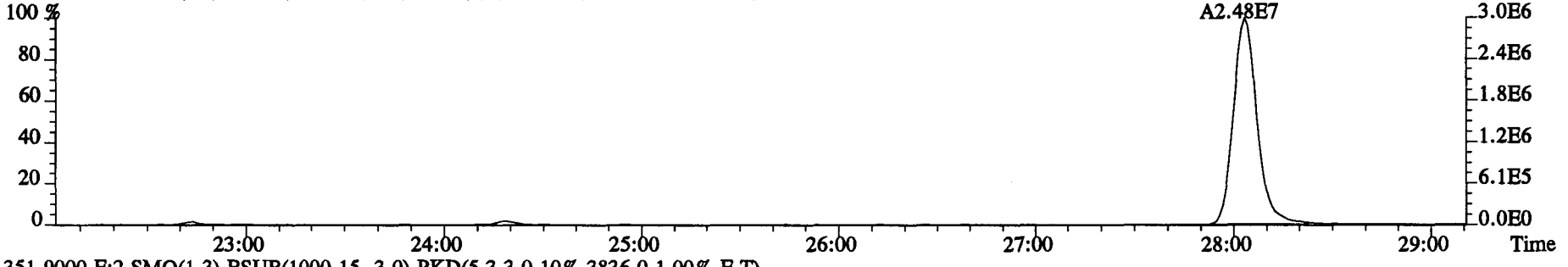


File:15DE109D5 #1-459 Acq:15-DEC-2010 09:53:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1215 :DB-5 CPSM 3732-08 Exp:DIOXINRES

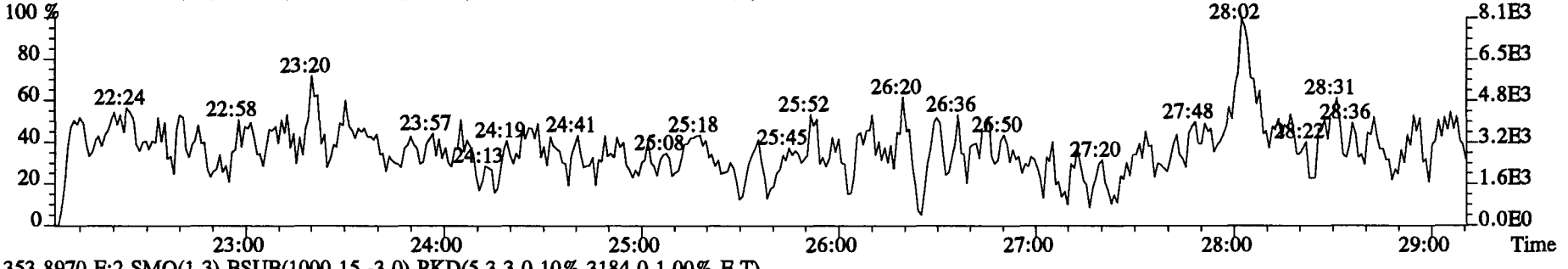
339.8597 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9076.0,1.00%,F,T)



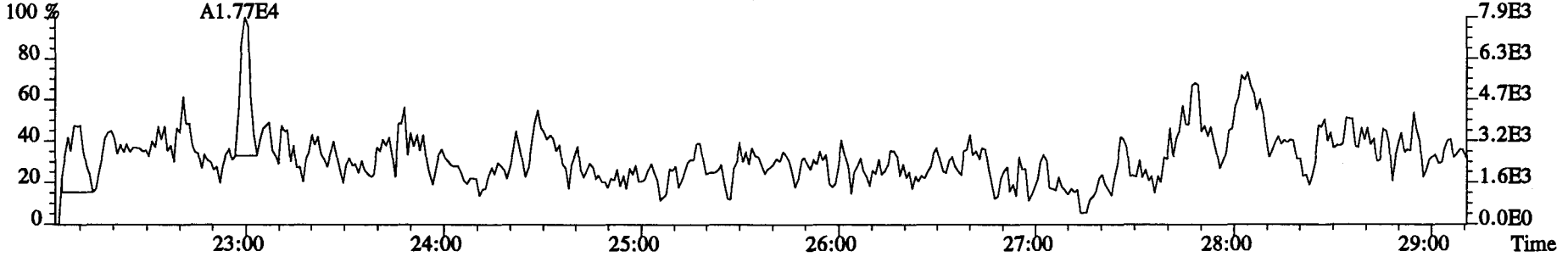
341.8567 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3884.0,1.00%,F,T)



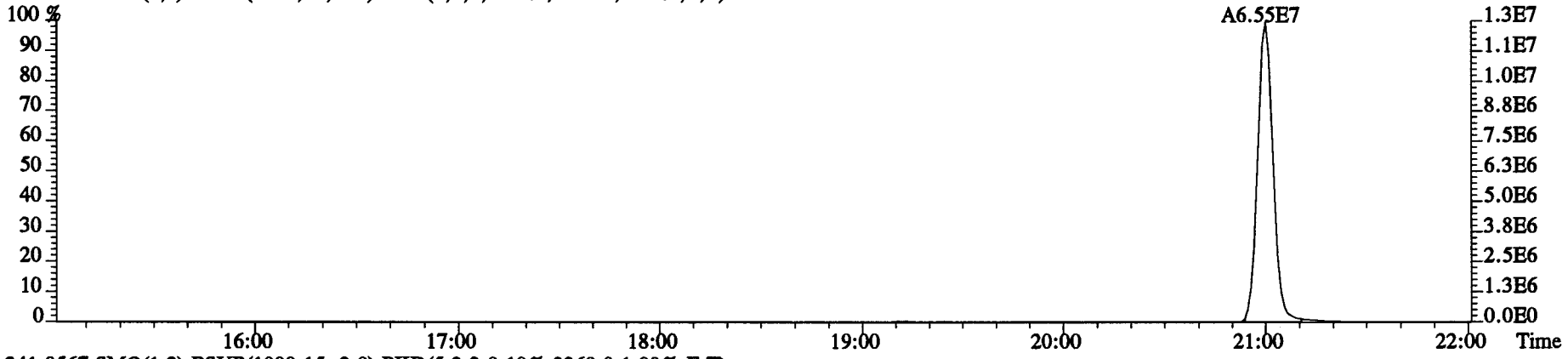
351.9000 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3836.0,1.00%,F,T)



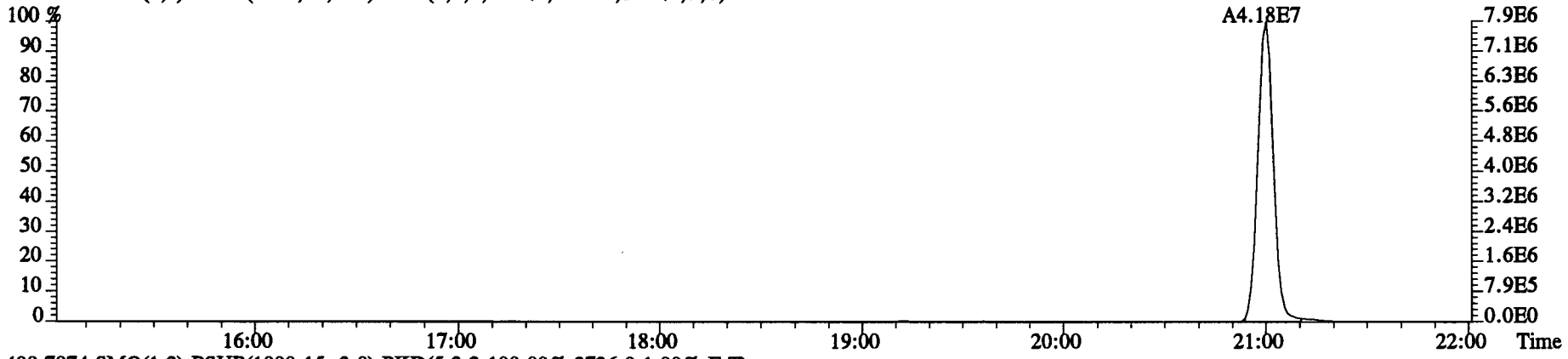
353.8970 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3184.0,1.00%,F,T)



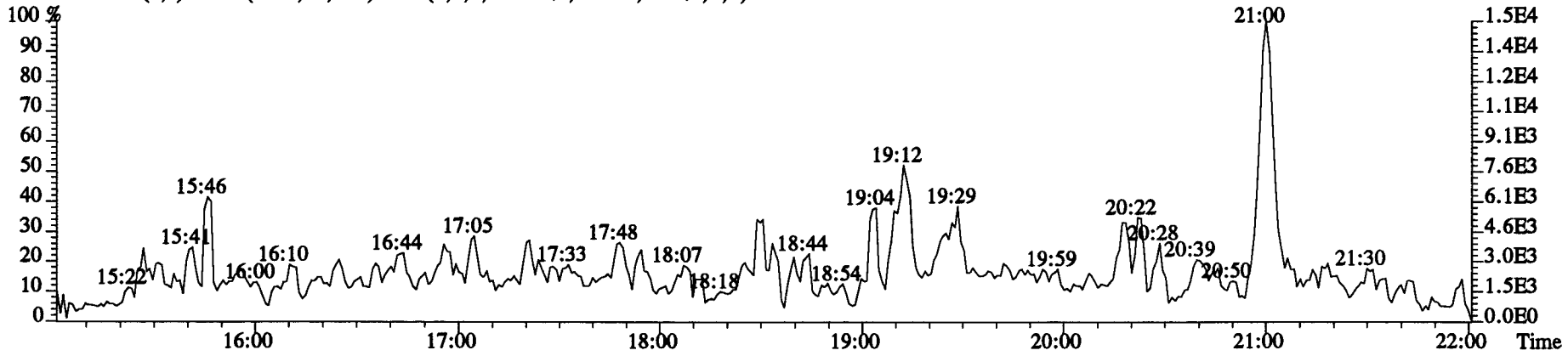
File:15DE109D5 #1-464 Acq:15-DEC-2010 09:53:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1215 :DB-5 CPSM 3732-08 Exp:DIOXINRES
339.8597 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4352.0,1.00%,F,T)



341.8567 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3368.0,1.00%,F,T)

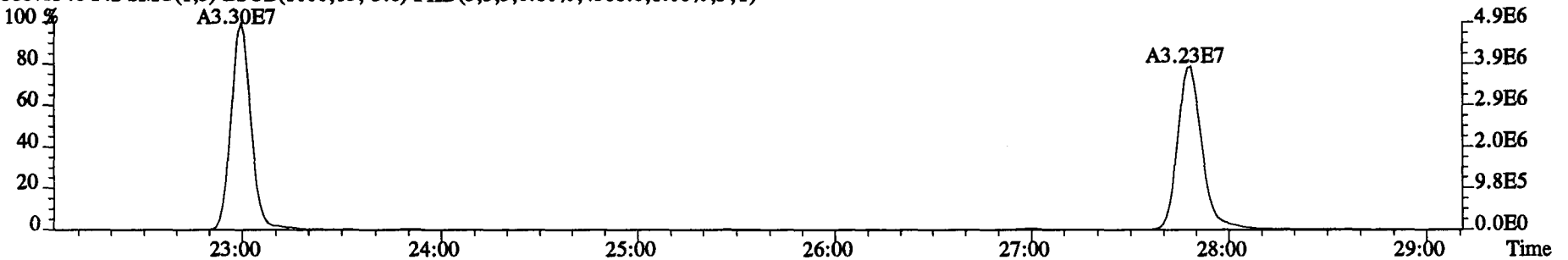


409.7974 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2736.0,1.00%,F,T)

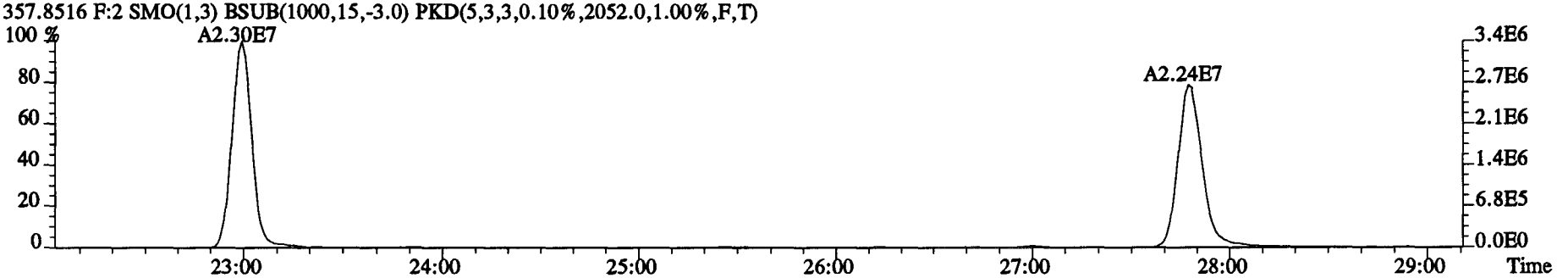


File:15DE109D5 #1-459 Acq:15-DEC-2010 09:53:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1215 :DB-5 CPSM 3732-08 Exp:DIOXINRES

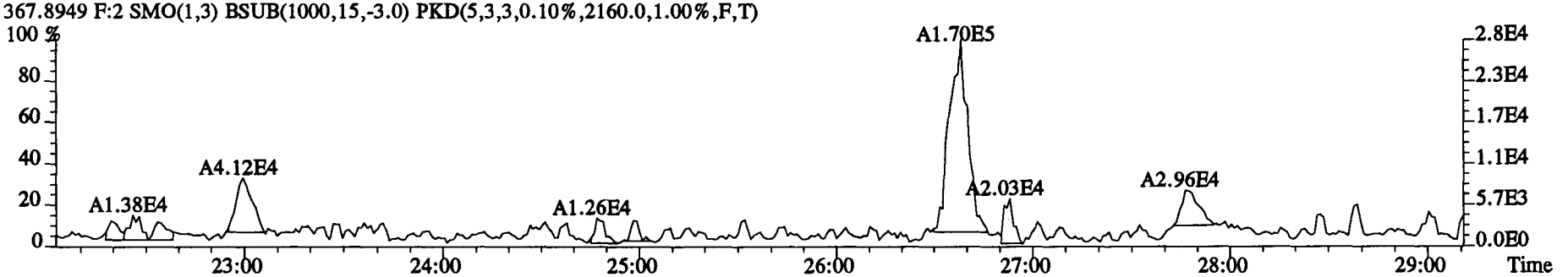
355.8546 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4588.0,1.00%,F,T)



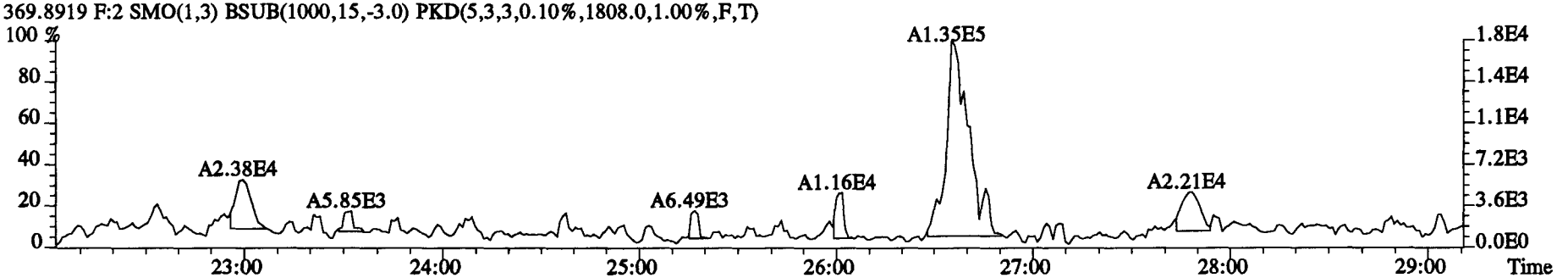
357.8516 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2052.0,1.00%,F,T)



367.8949 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2160.0,1.00%,F,T)

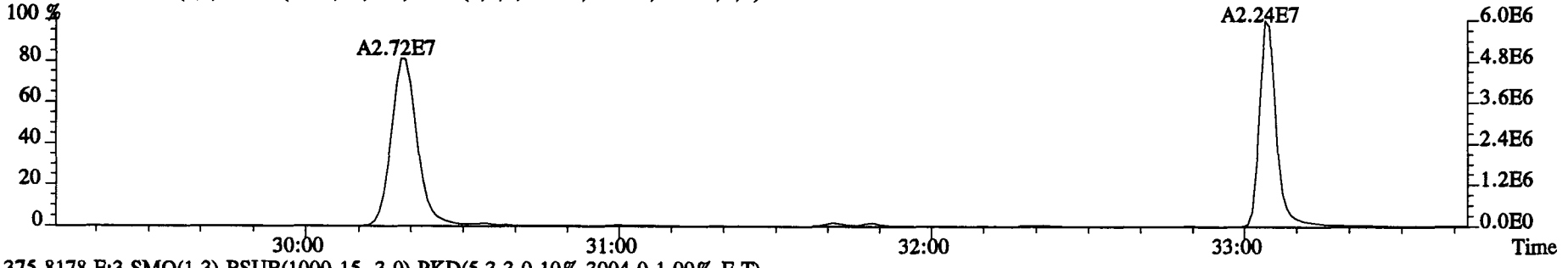


369.8919 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1808.0,1.00%,F,T)

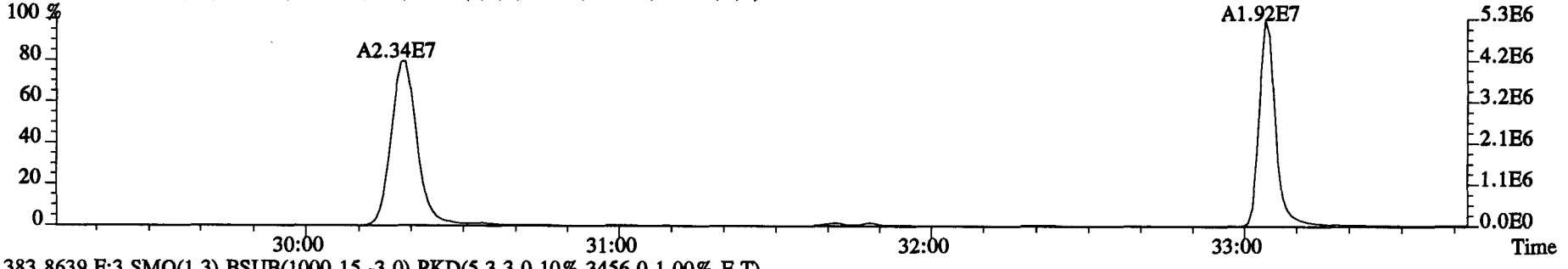


File:15DE109D5 #1-325 Acq:15-DEC-2010 09:53:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1215 :DB-5 CPSM 3732-08 Exp:DIOXINRES

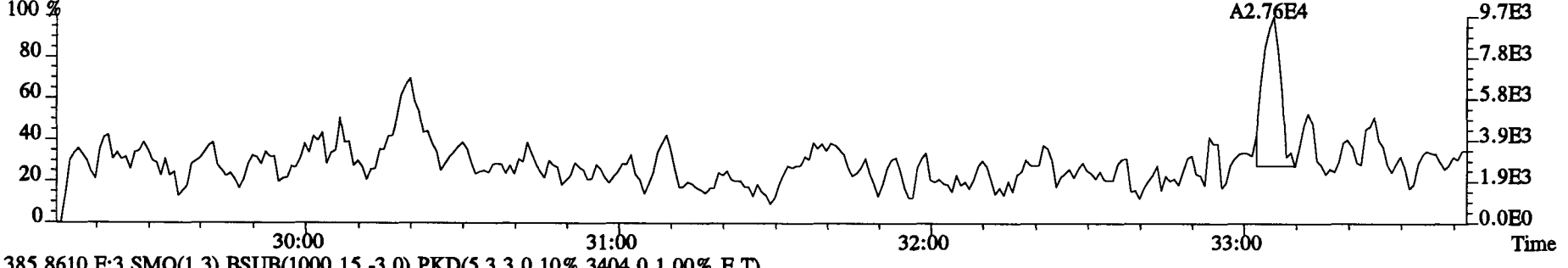
373.8208 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7048.0,1.00%,F,T)



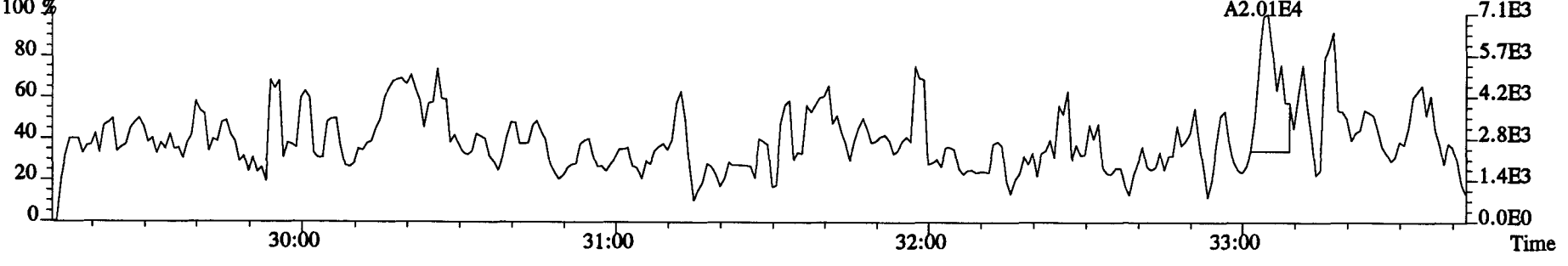
375.8178 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3004.0,1.00%,F,T)



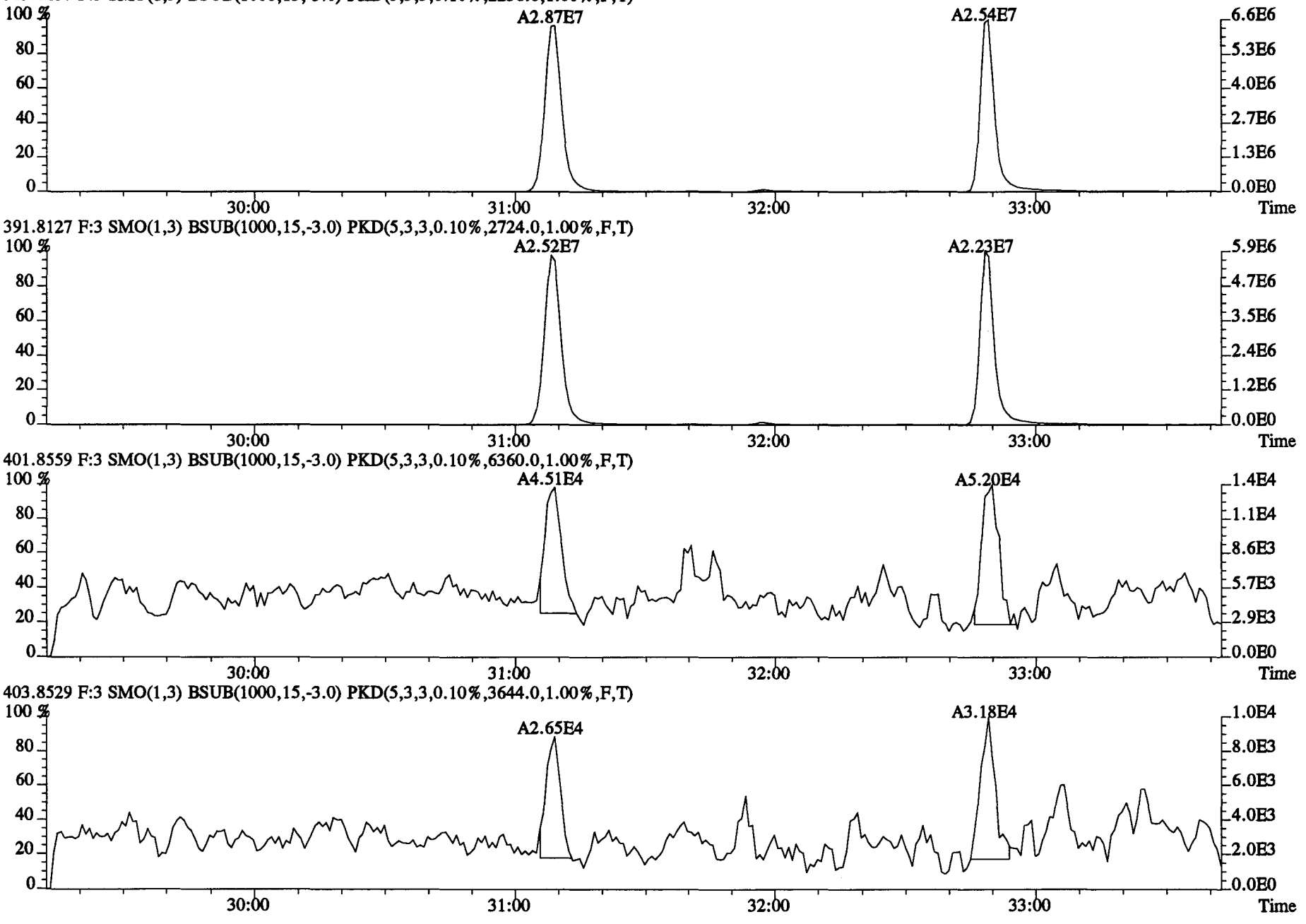
383.8639 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3456.0,1.00%,F,T)



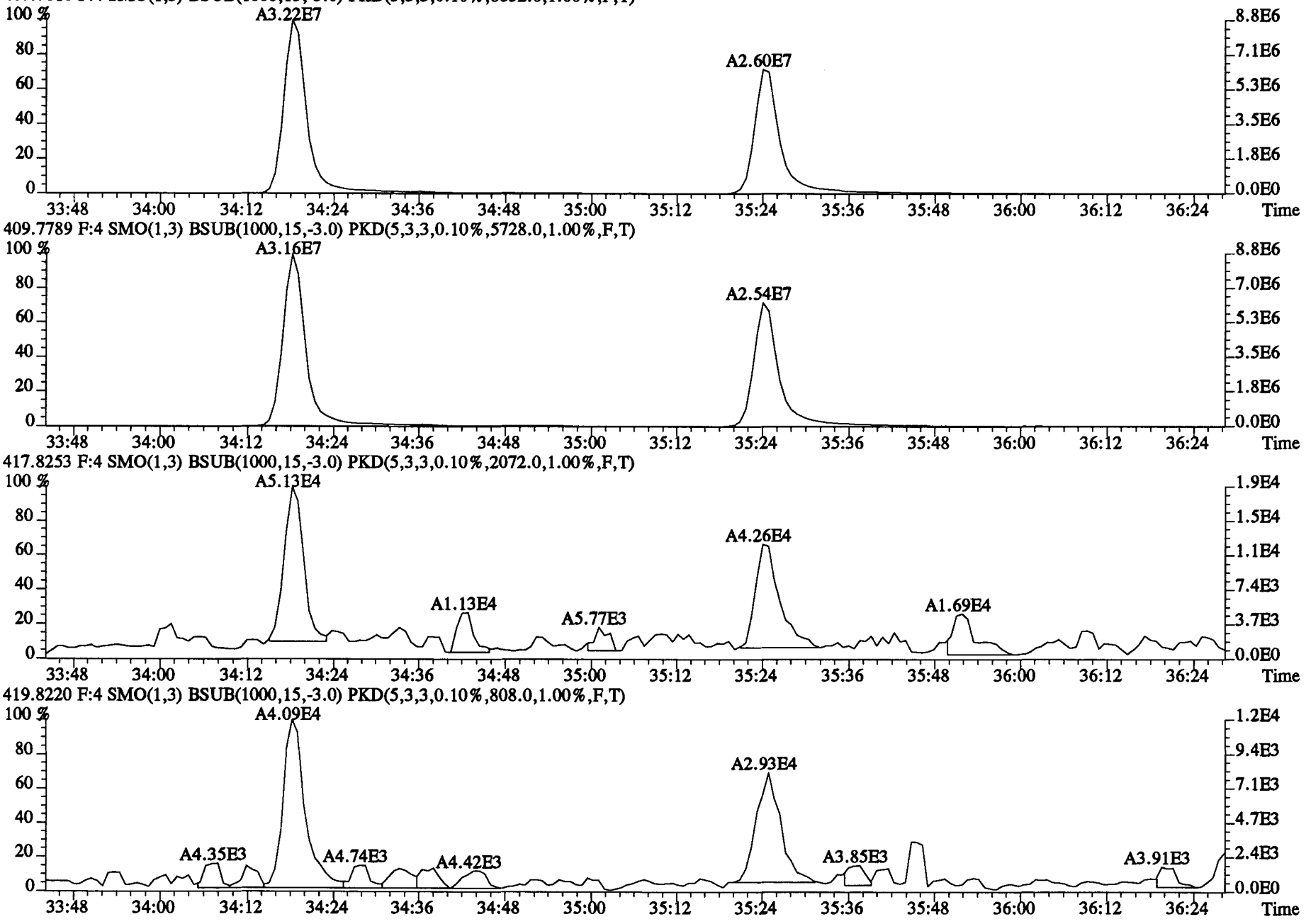
385.8610 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3404.0,1.00%,F,T)



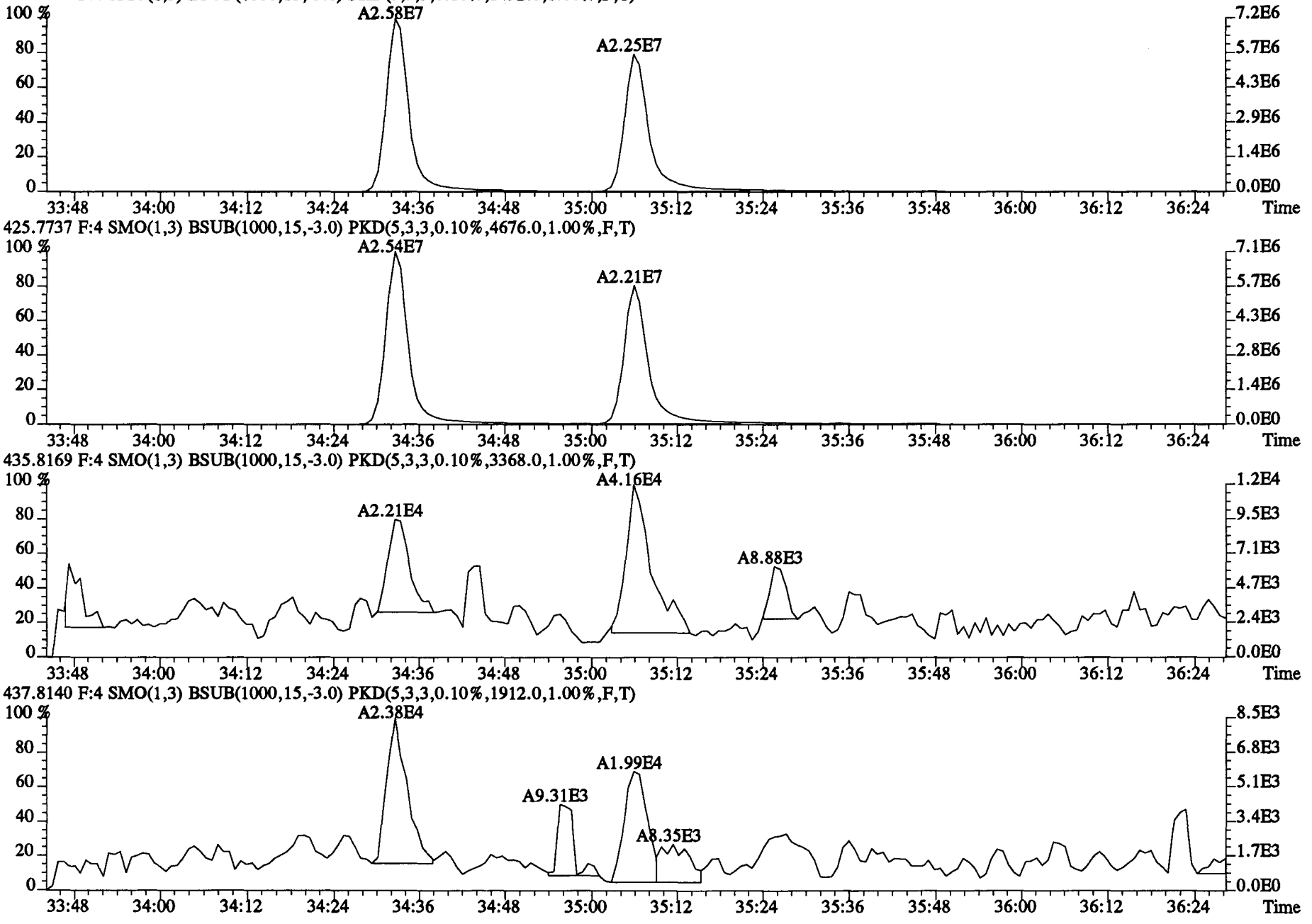
File:15DE109D5 #1-325 Acq:15-DEC-2010 09:53:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1215 :DB-5 CPSM 3732-08 Exp:DIOXINRES



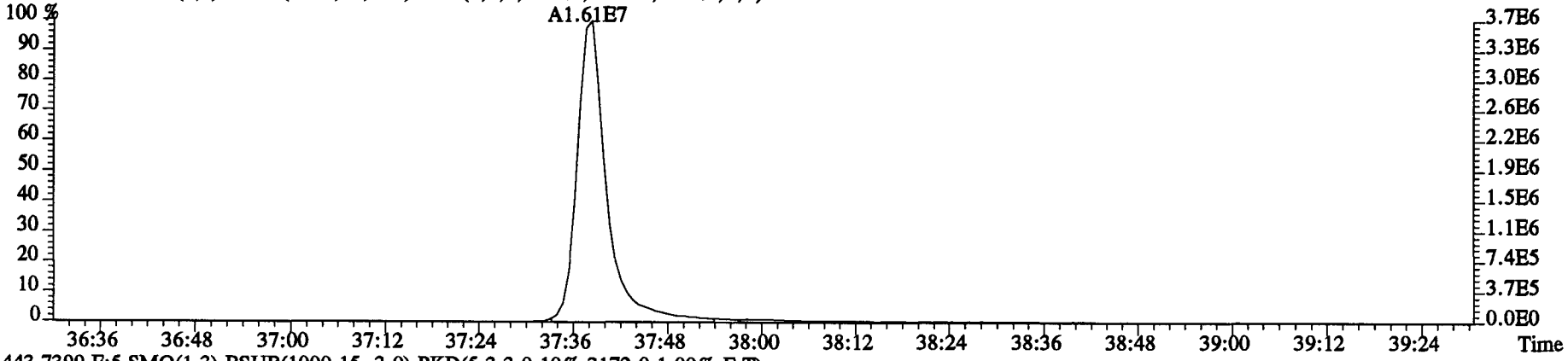
File:15DE109D5 #1-208 Acq:15-DEC-2010 09:53:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1215 :DB-5 CPSM 3732-08 Exp:DIOXINRES



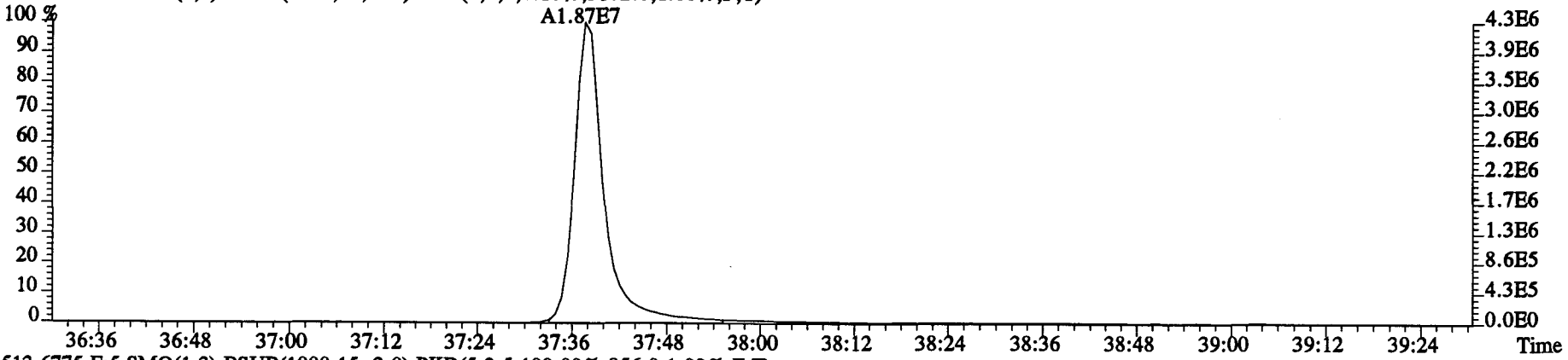
File:15DE109D5 #1-208 Acq:15-DEC-2010 09:53:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1215 :DB-5 CPSM 3732-08 Exp:DIOXINRES



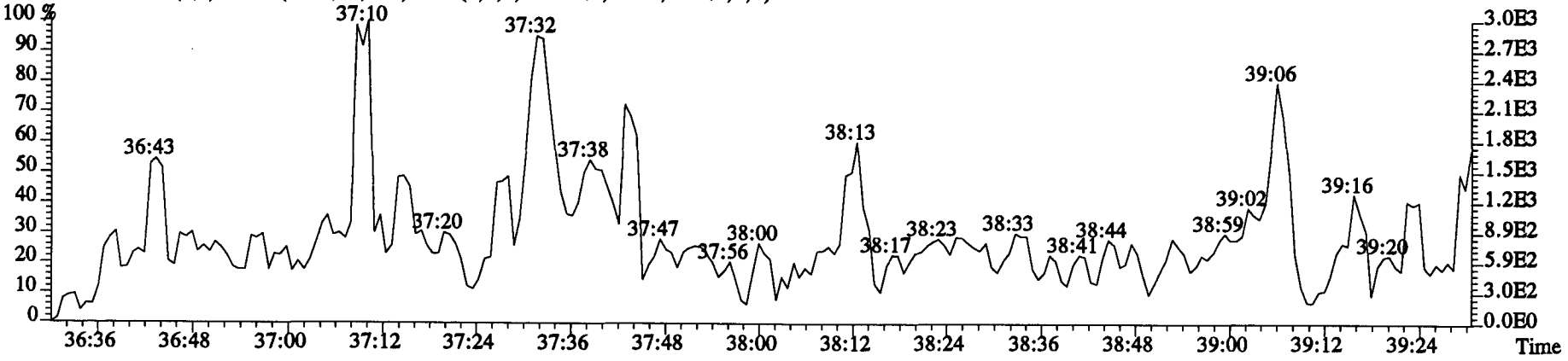
File:15DE109D5 #1-244 Acq:15-DEC-2010 09:53:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1215 :DB-5 CPSM 3732-08 Exp:DIOXINRES
441.7428 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2316.0,1.00%,F,T)



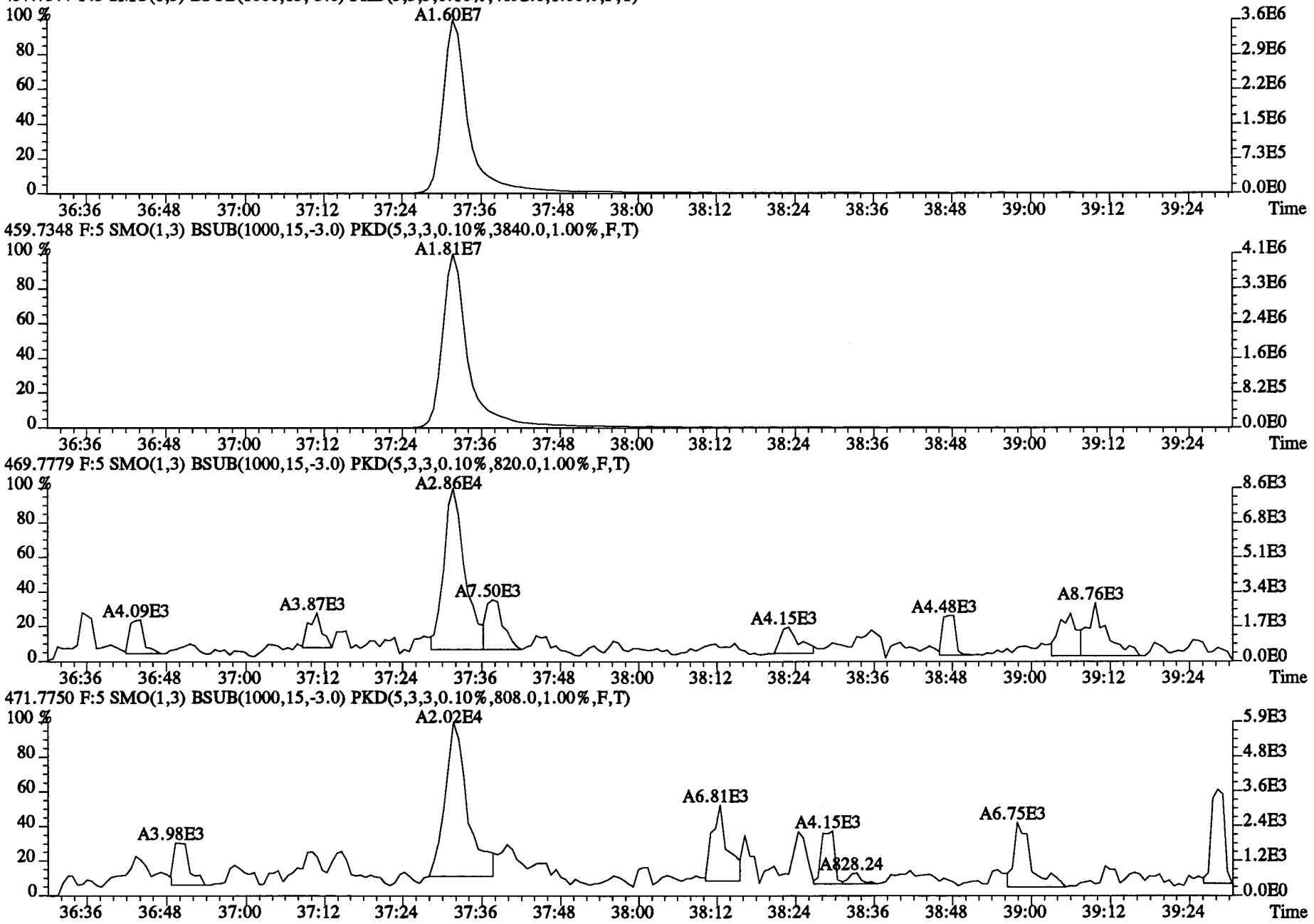
443.7399 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3172.0,1.00%,F,T)



513.6775 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,856.0,1.00%,F,T)

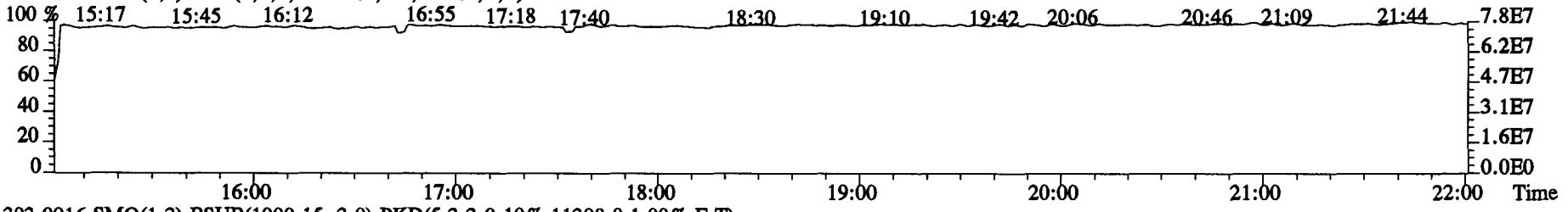


File:15DE109D5 #1-244 Acq:15-DEC-2010 09:53:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1215 :DB-5 CPSM 3732-08 Exp:DIOXINRES

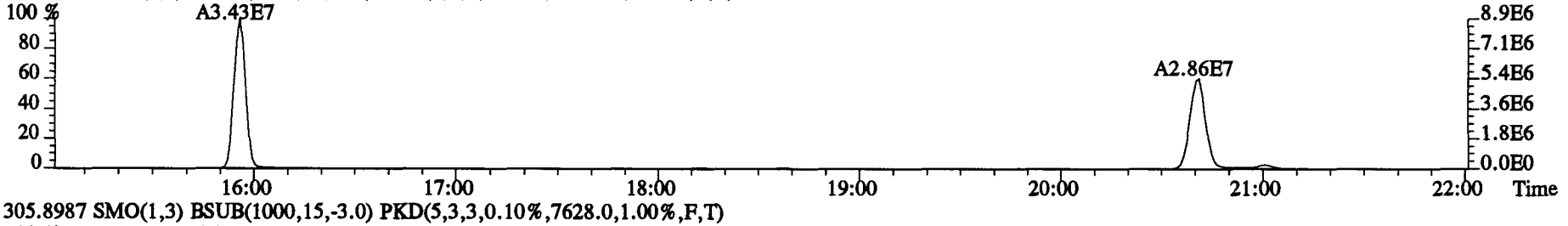


File:15DE109D5 #1-464 Acq:15-DEC-2010 09:53:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1215 :DB-5 CPSM 3732-08 Exp:DIOXINRES

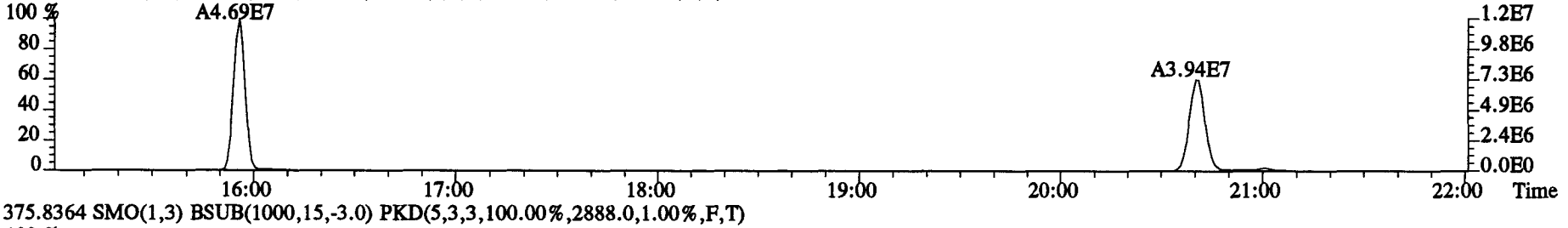
292.9825 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



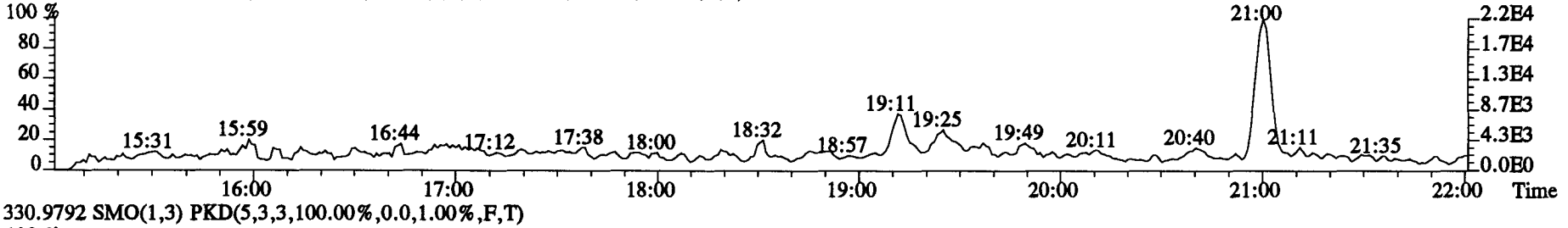
303.9016 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11308.0,1.00%,F,T)



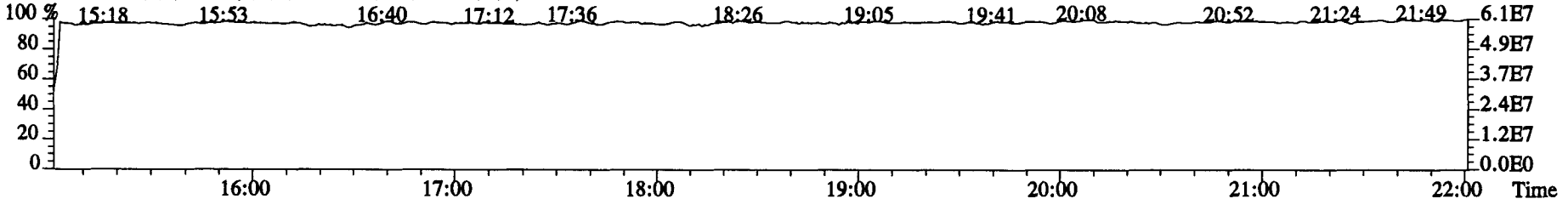
305.8987 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7628.0,1.00%,F,T)



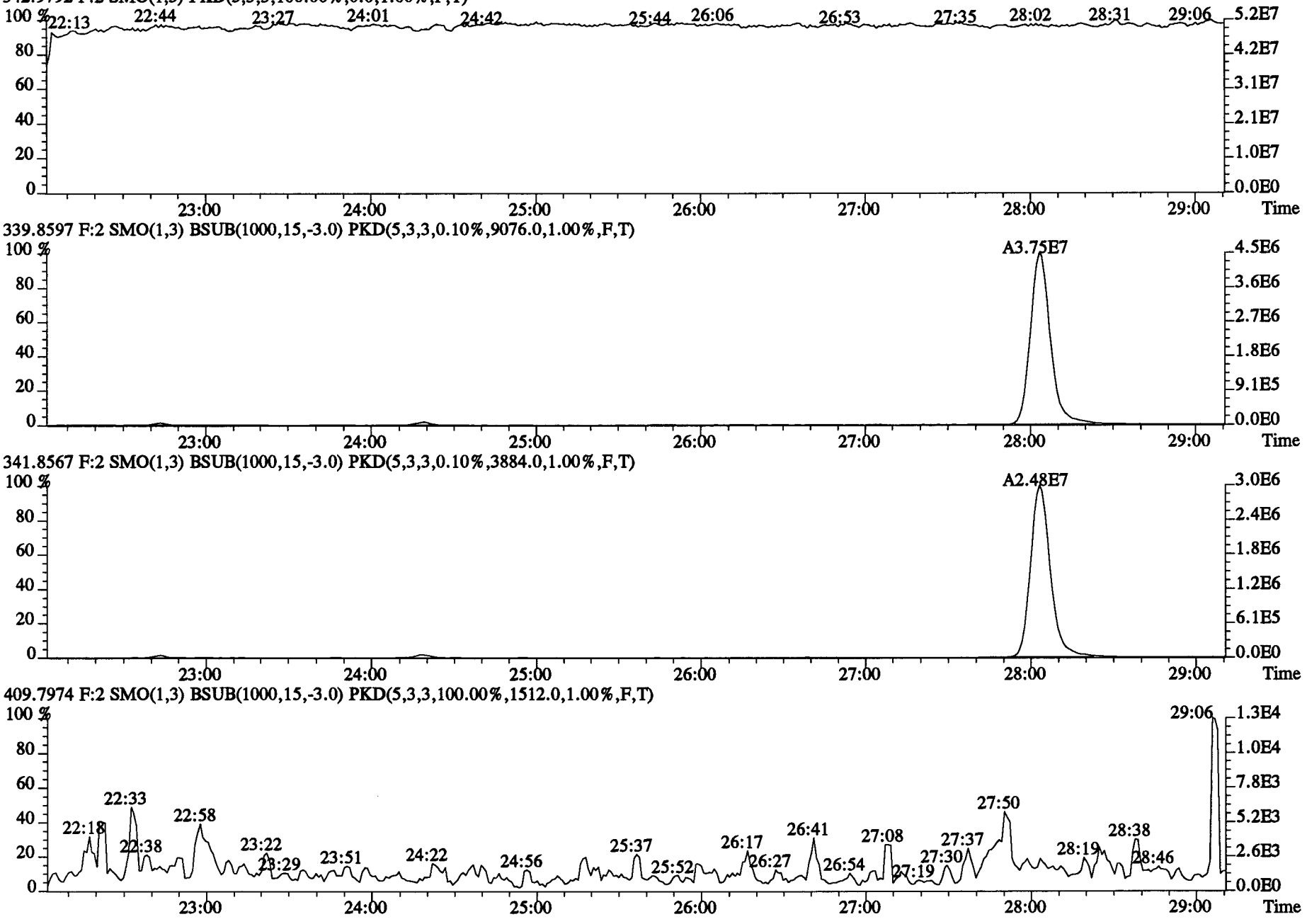
375.8364 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2888.0,1.00%,F,T)



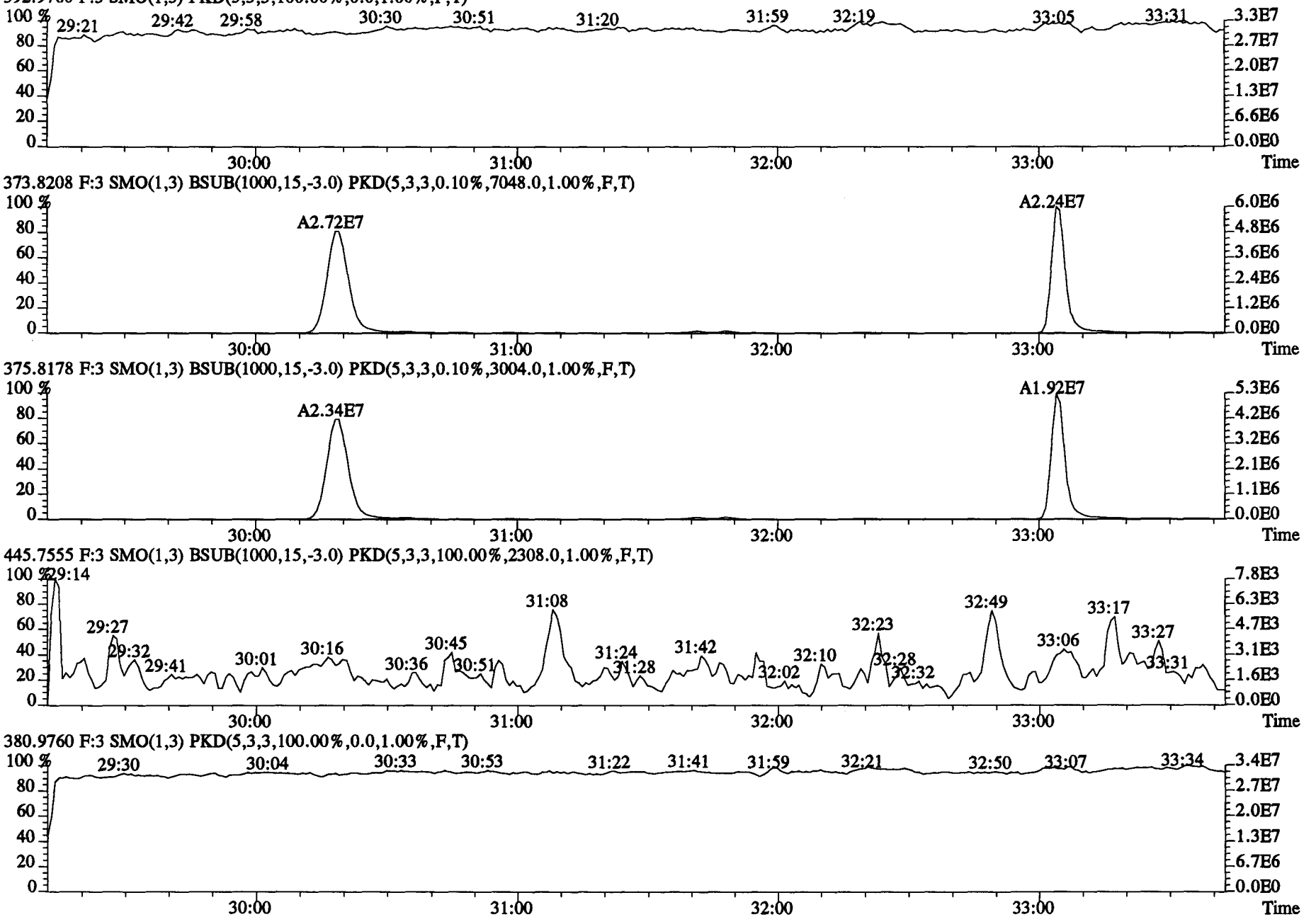
330.9792 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



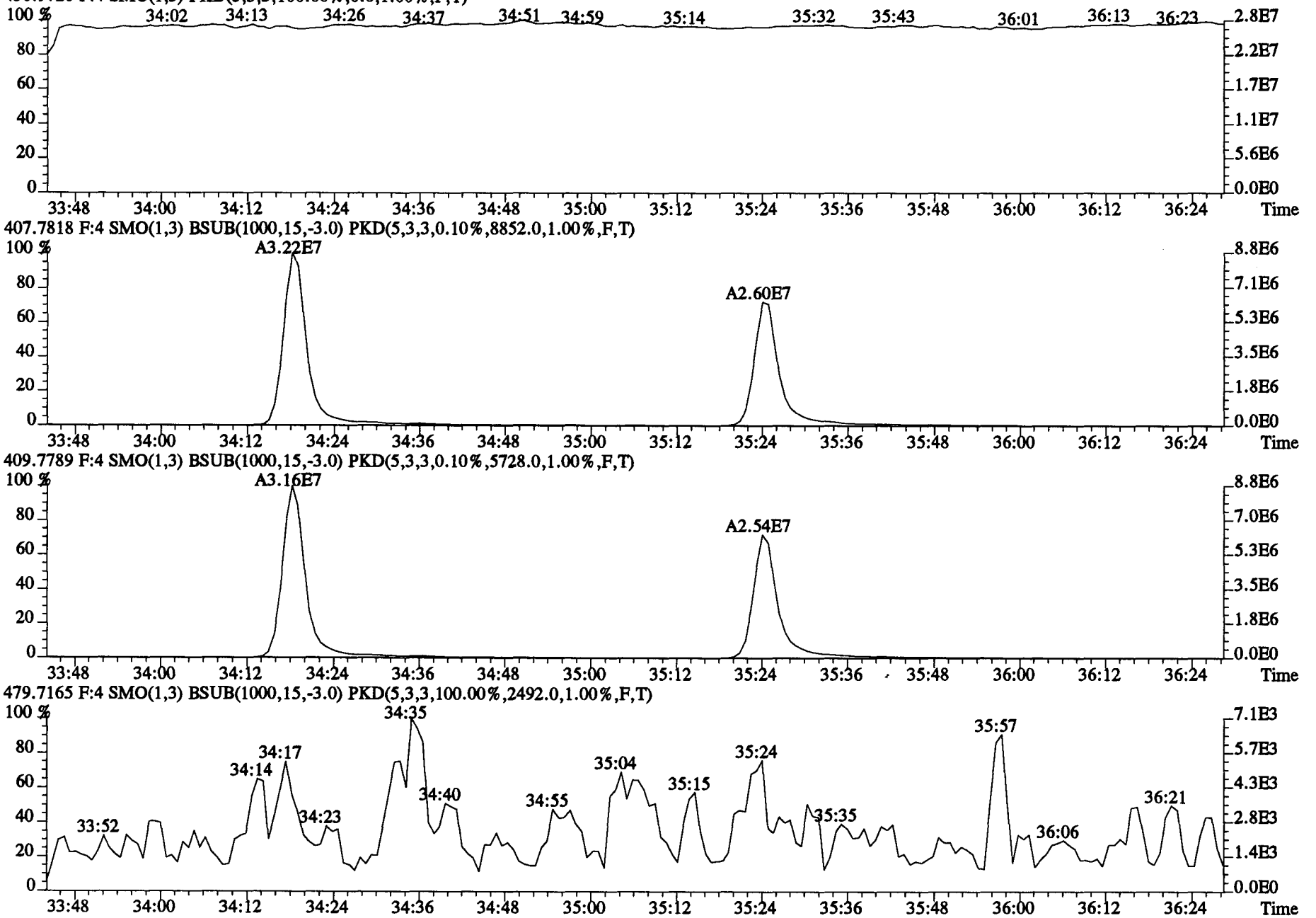
File:15DE109D5 #1-459 Acq:15-DEC-2010 09:53:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1215 :DB-5 CPSM 3732-08 Exp:DIOXINRES



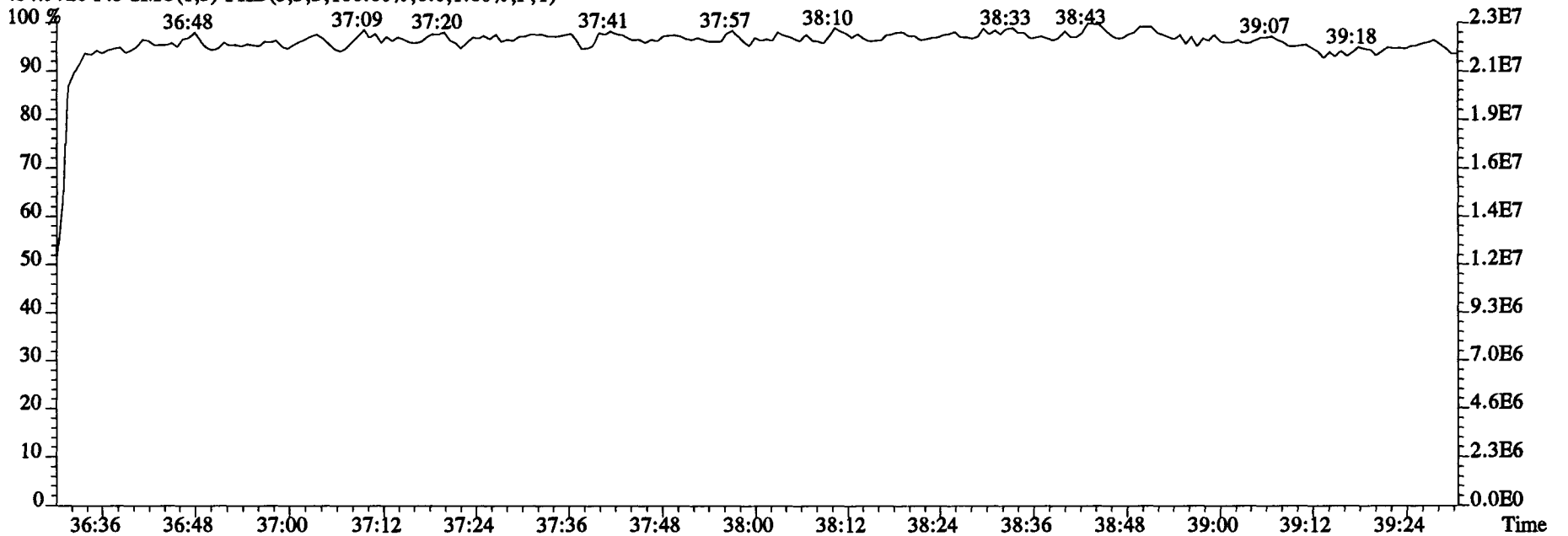
File:15DE109D5 #1-325 Acq:15-DEC-2010 09:53:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1215 :DB-5 CPSM 3732-08 Exp:DIOXINRES



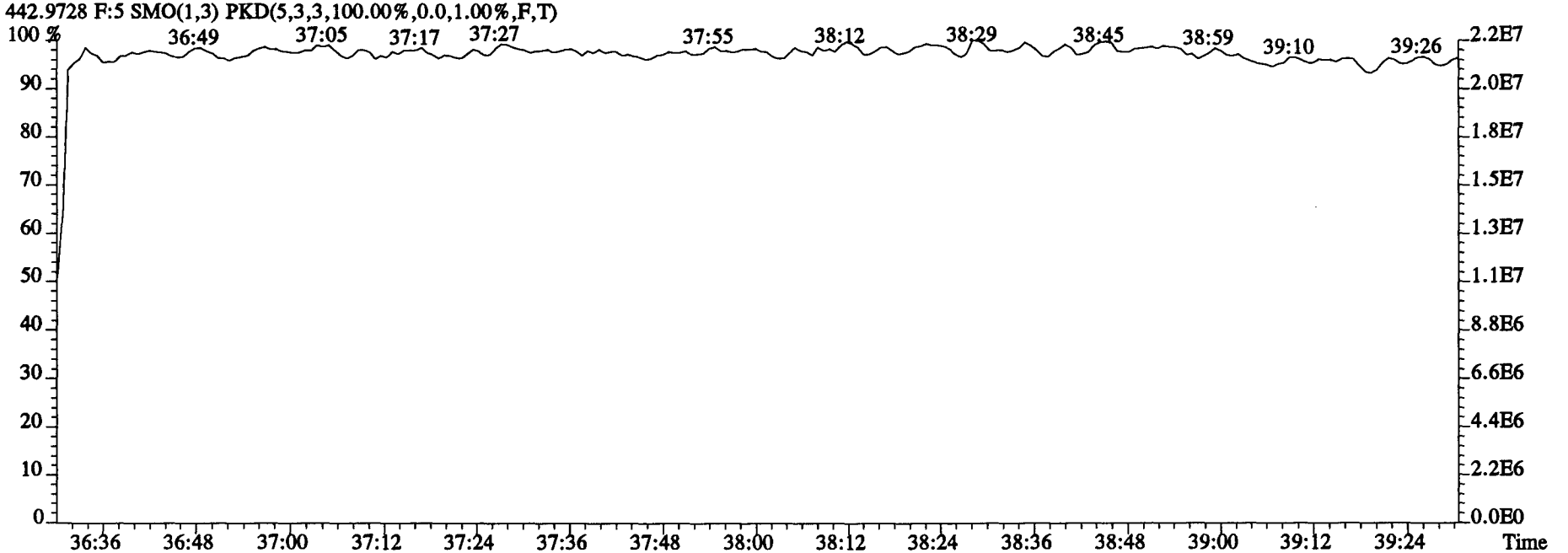
File:15DE109D5 #1-208 Acq:15-DEC-2010 09:53:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1215 :DB-5 CPSM 3732-08 Exp:DIOXINRES



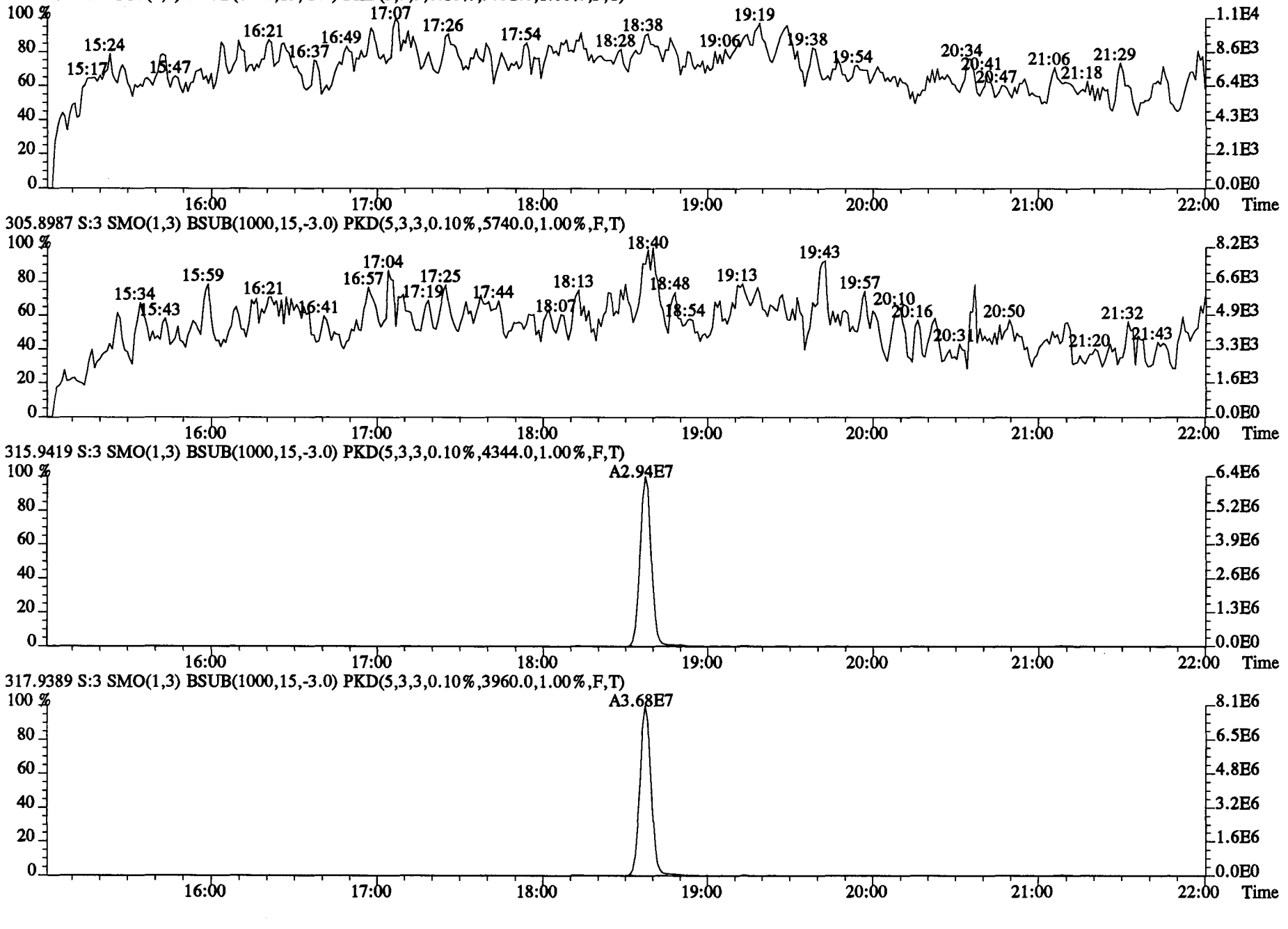
File:15DE109D5 #1-244 Acq:15-DEC-2010 09:53:43 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1215 :DB-5 CPSM 3732-08 Exp:DIOXINRES
454.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



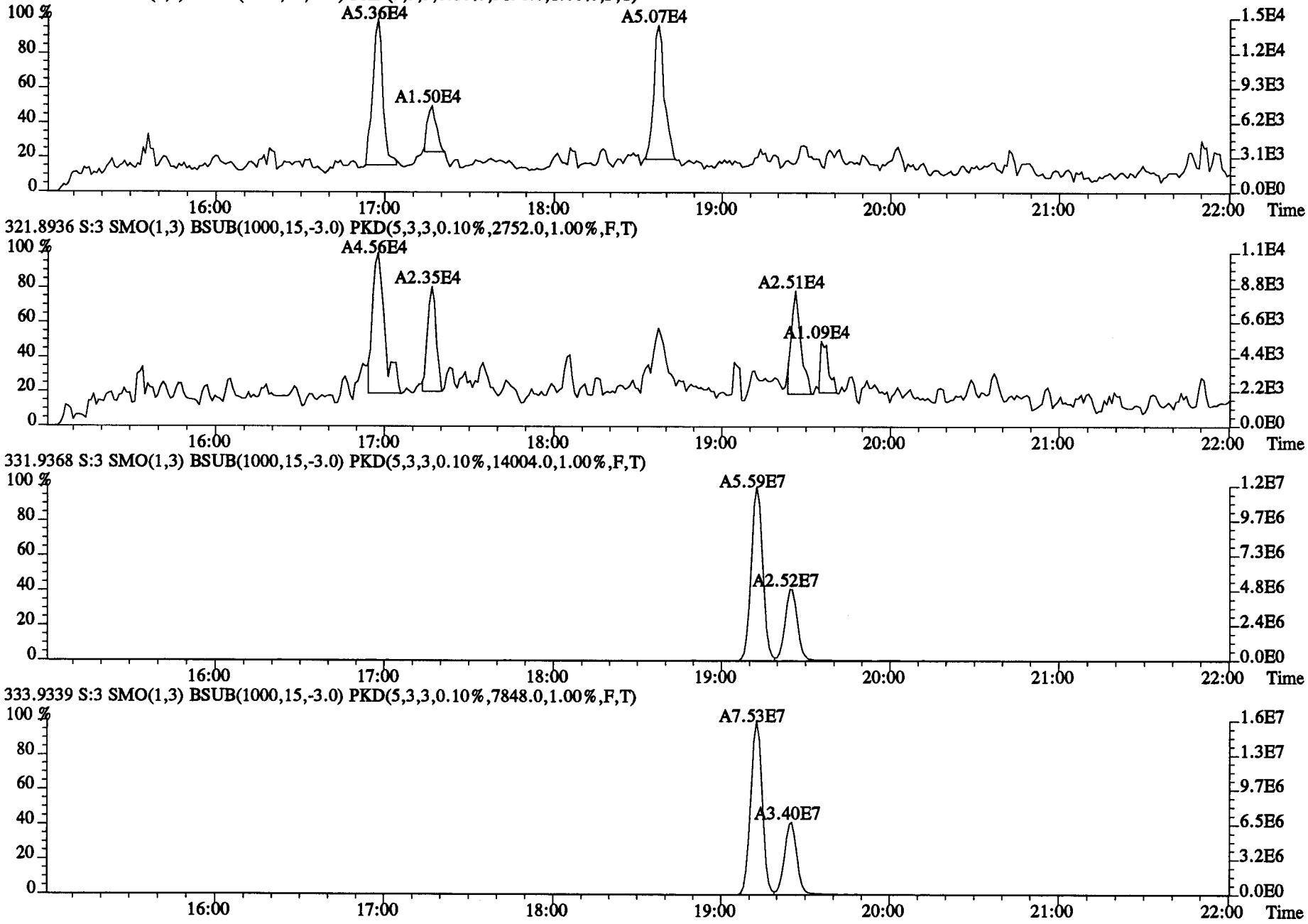
442.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



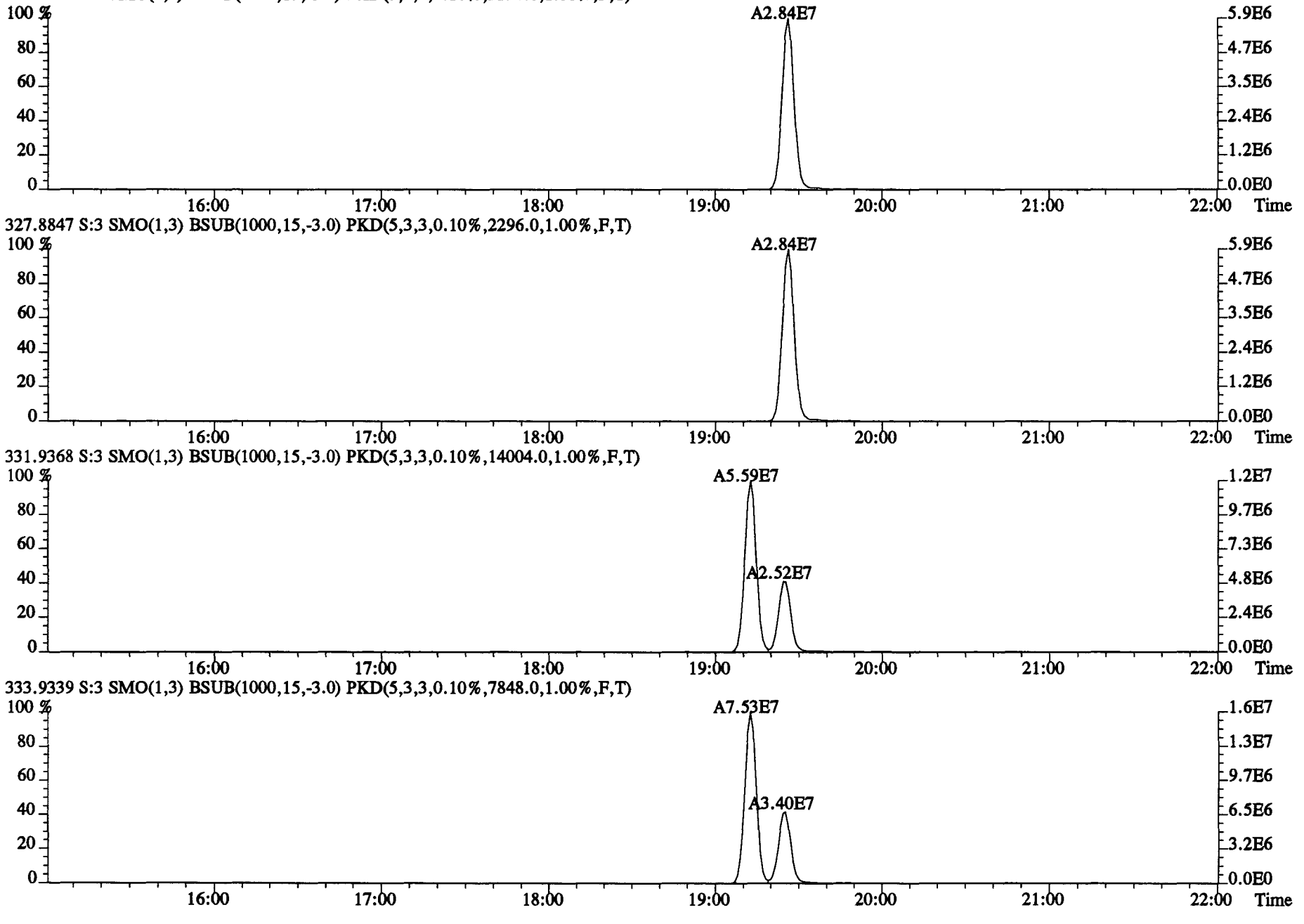
File:15DE109D5 #1-464 Acq:15-DEC-2010 11:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MA8N7-1-AA :G0L120000-012 (584-1MB) Exp:DIOXINRES



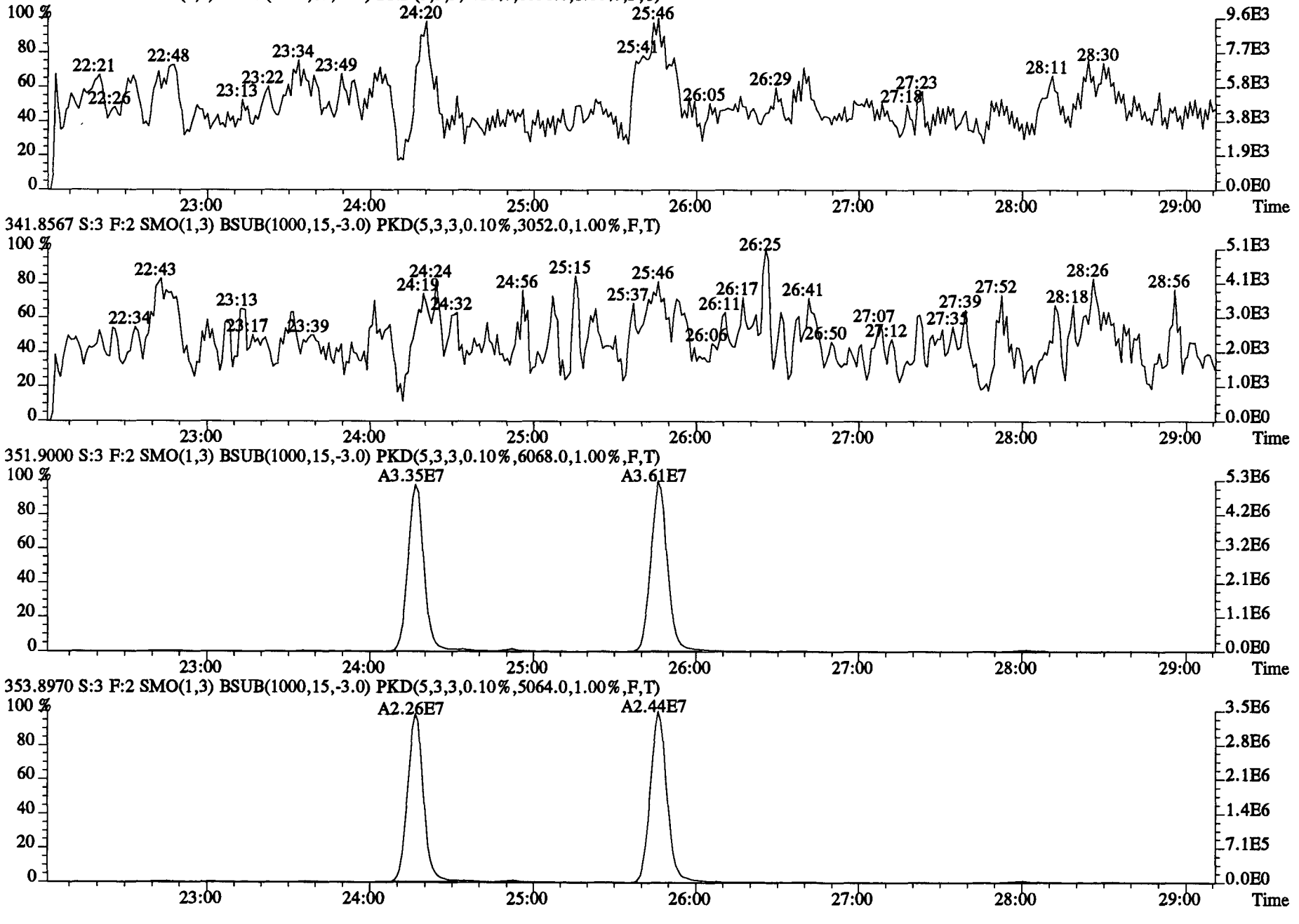
File:15DE109D5 #1-464 Acq:15-DEC-2010 11:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MA8N7-1-AA :G0L120000-012 (584-1MB) Exp:DIOXINRES



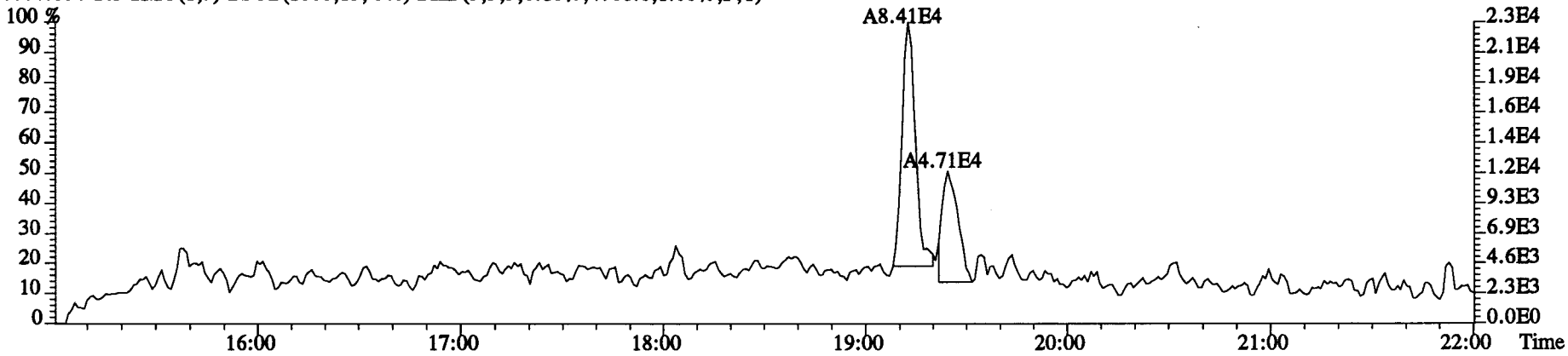
File:15DE109D5 #1-464 Acq:15-DEC-2010 11:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MA8N7-1-AA :G0L120000-012 (584-1MB) Exp:DIOXINRES



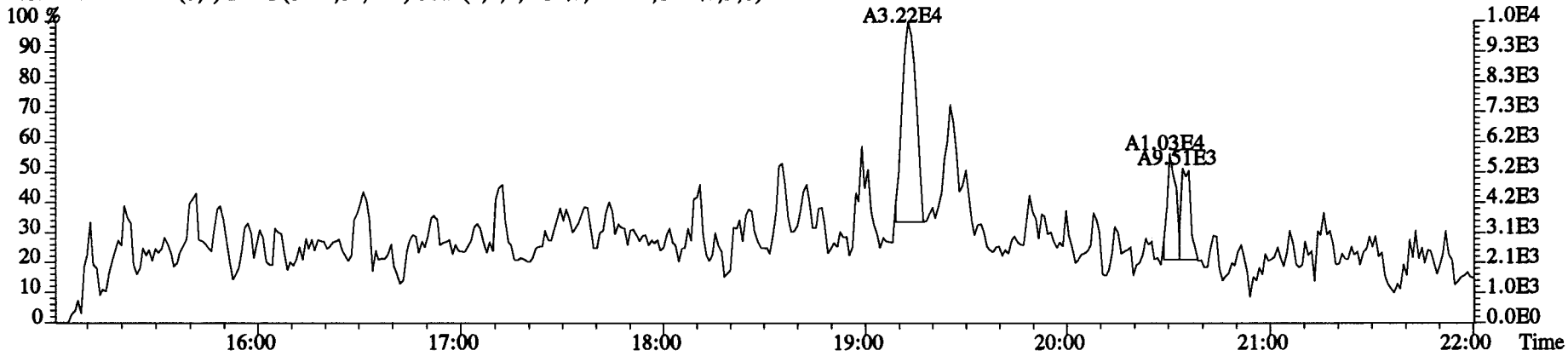
File:15DE109D5 #1-460 Acq:15-DEC-2010 11:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MA8N7-1-AA :G0L120000-012 (584-1MB) Exp:DIOXINRES



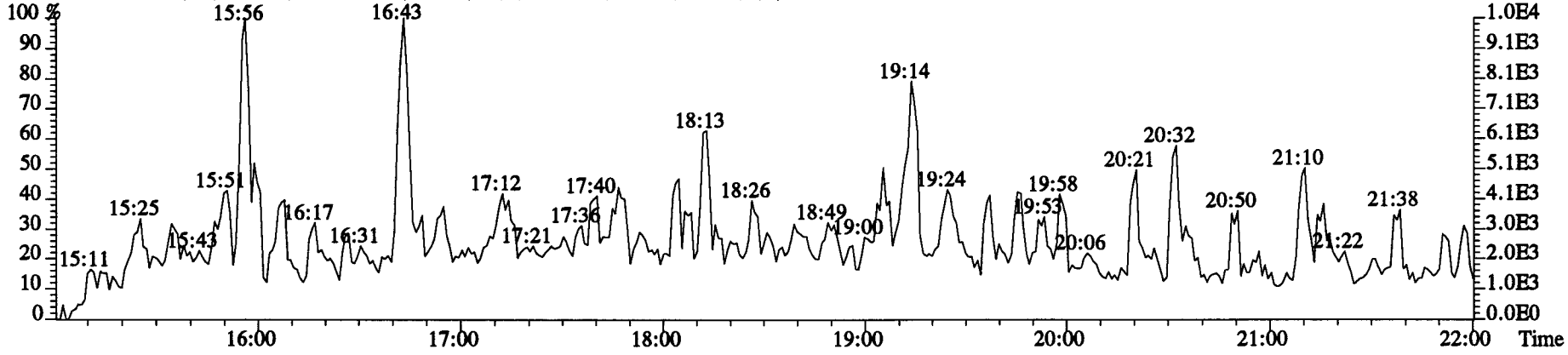
File:15DE109D5 #1-464 Acq:15-DEC-2010 11:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MA8N7-1-AA :G0L120000-012 (584-1MB) Exp:DIOXINRES
339.8597 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4708.0,1.00%,F,T)



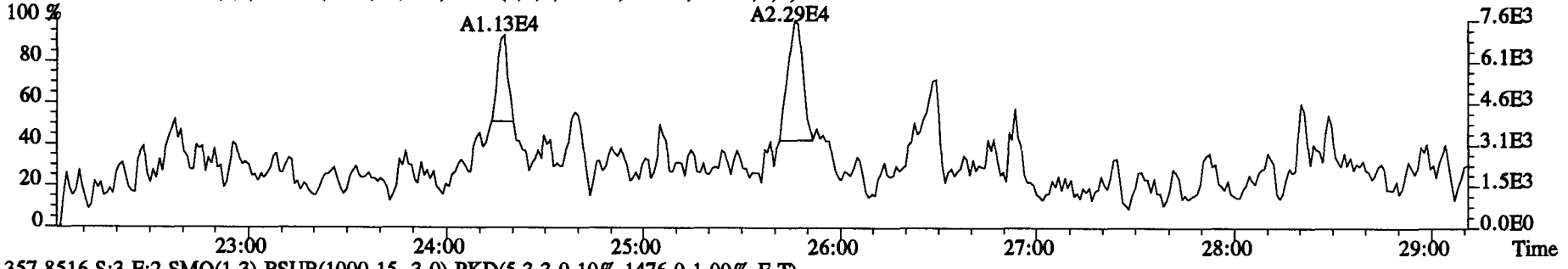
341.8567 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3556.0,1.00%,F,T)

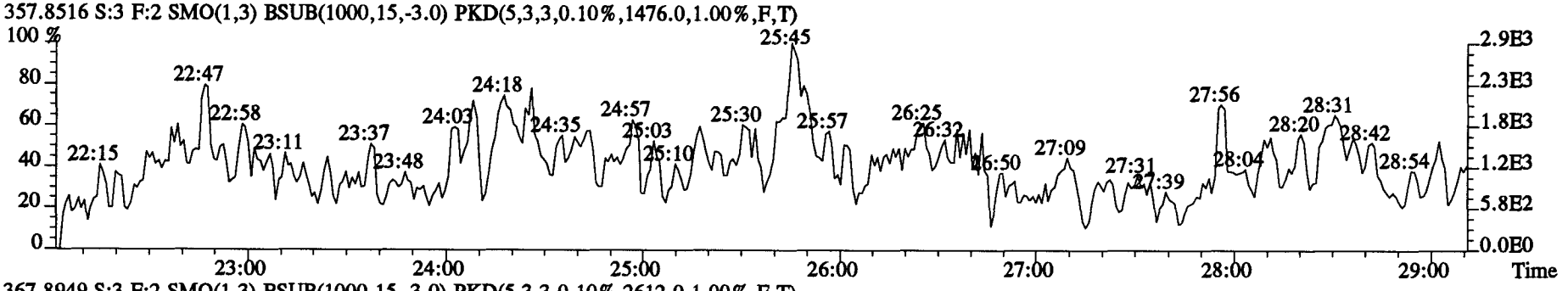


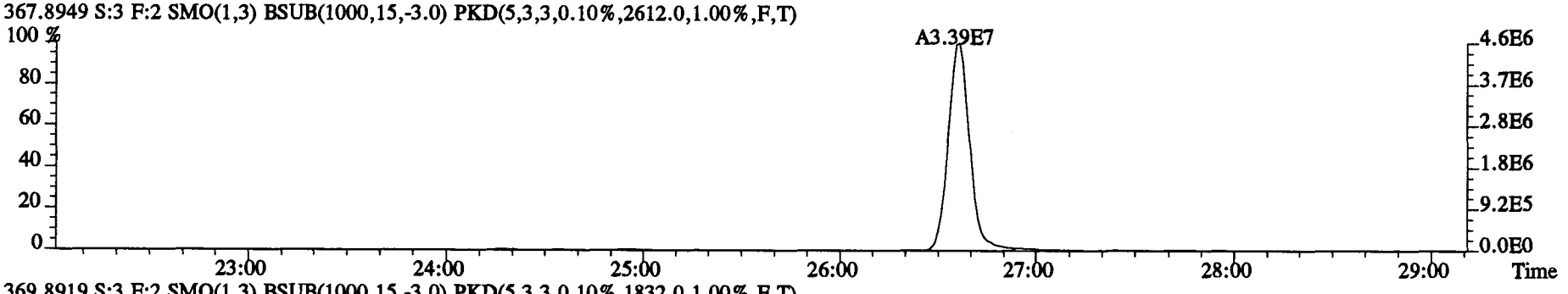
409.7974 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2968.0,1.00%,F,T)

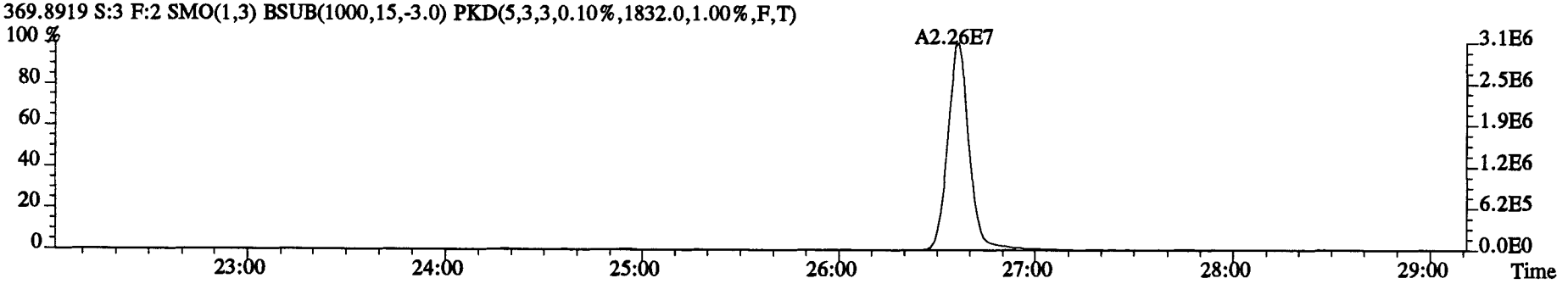


File:15DE109D5 #1-460 Acq:15-DEC-2010 11:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MA8N7-1-AA :G0L120000-012 (584-1MB) Exp:DIOXINRES

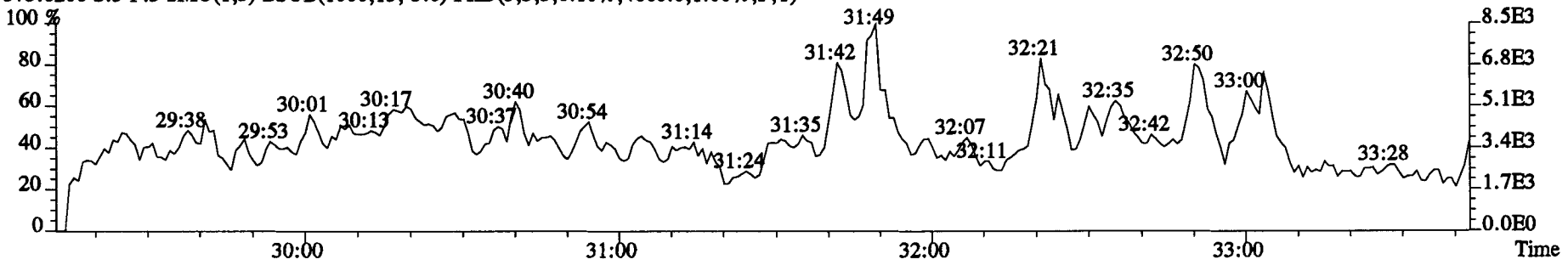




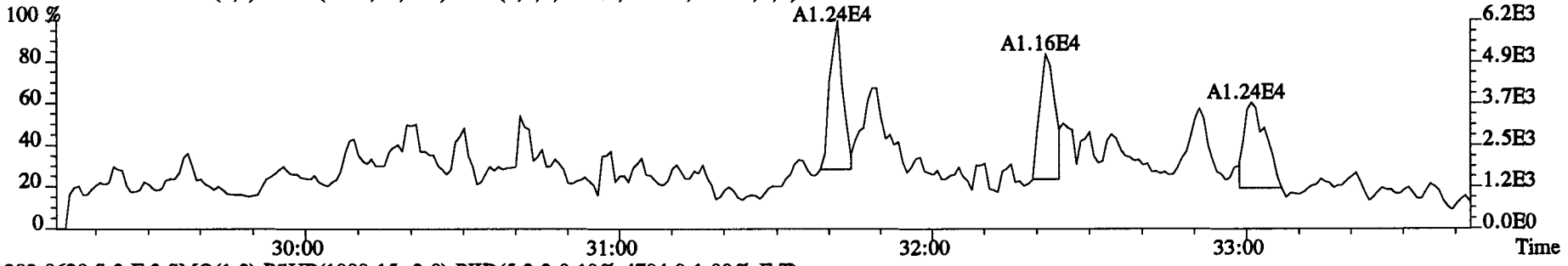




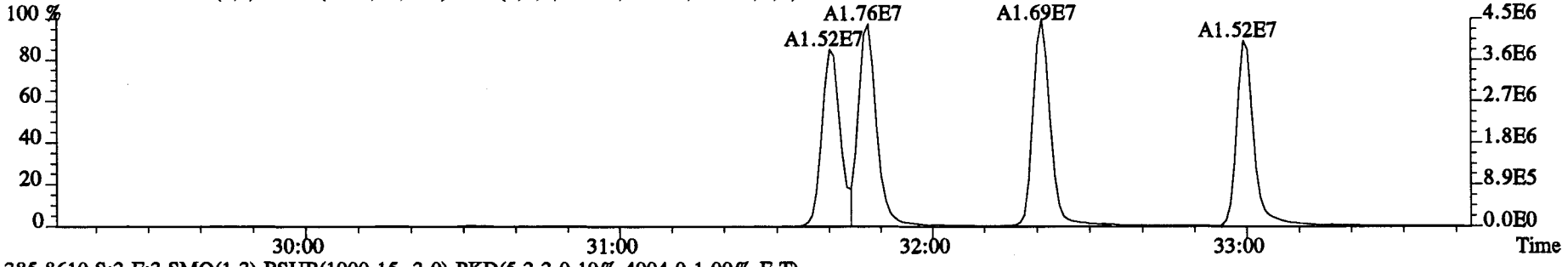
File:15DE109D5 #1-325 Acq:15-DEC-2010 11:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MA8N7-1-AA :G0L120000-012 (584-1MB) Exp:DIOXINRES
373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4660.0,1.00%,F,T)



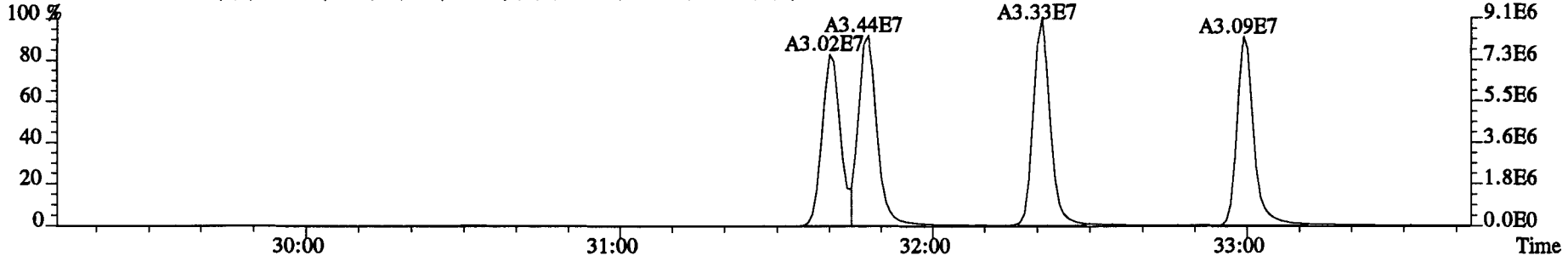
375.8178 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1996.0,1.00%,F,T)



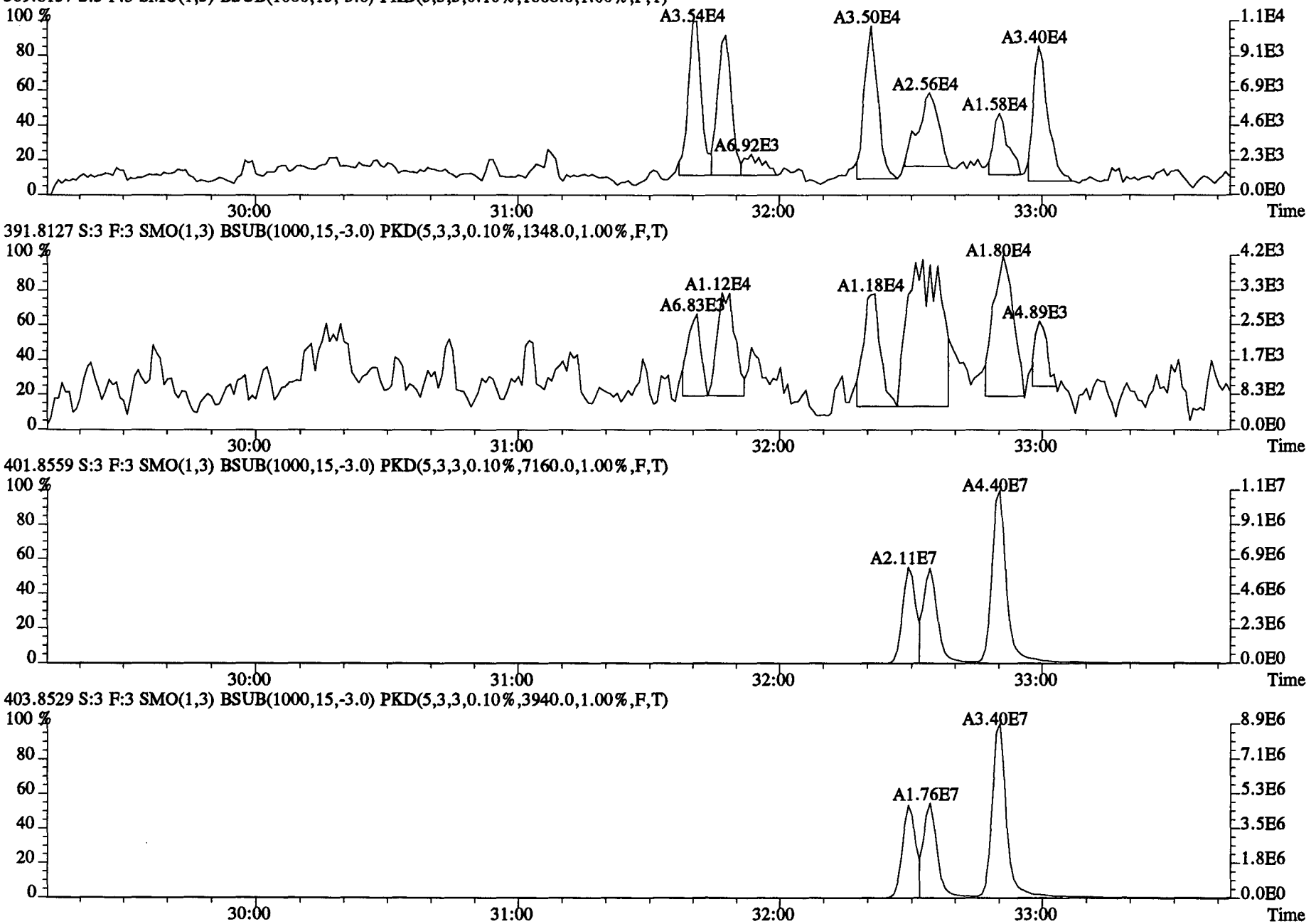
383.8639 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4704.0,1.00%,F,T)



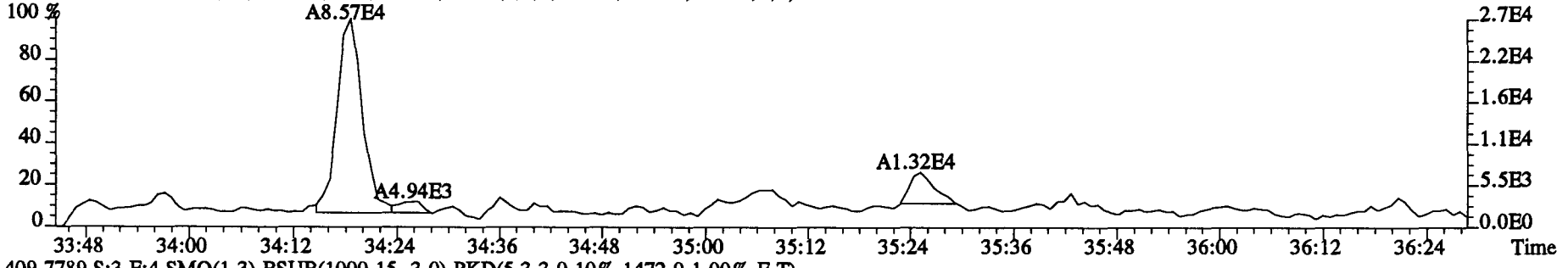
385.8610 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4004.0,1.00%,F,T)



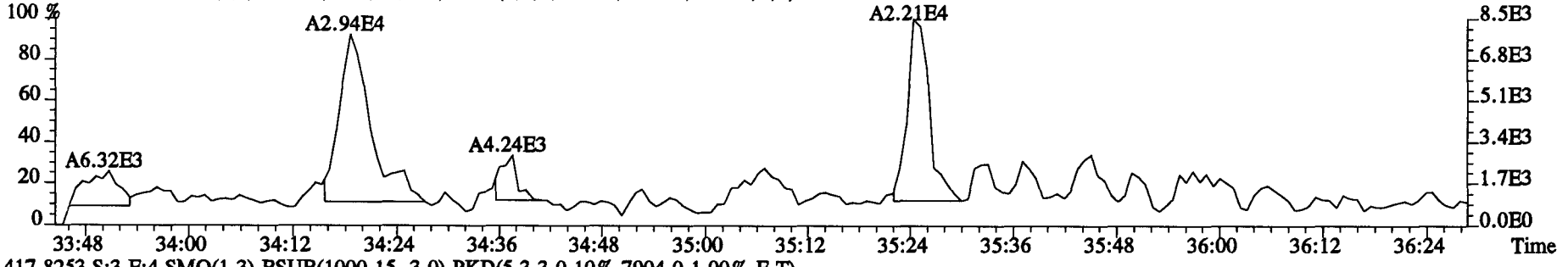
File:15DE109D5 #1-325 Acq:15-DEC-2010 11:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MA8N7-1-AA :G0L120000-012 (584-1MB) Exp:DIOXINRES



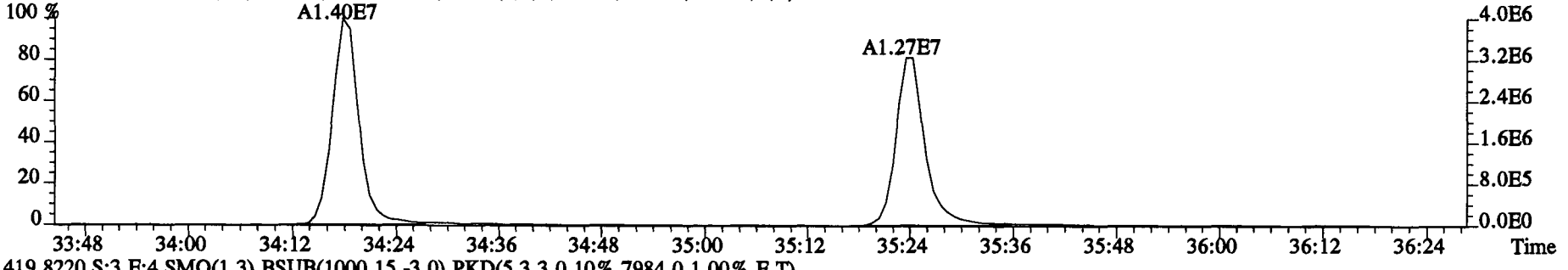
File:15DE109D5 #1-208 Acq:15-DEC-2010 11:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MA8N7-1-AA :G0L120000-012 (584-1MB) Exp:DIOXINRES
407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3132.0,1.00%,F,T)



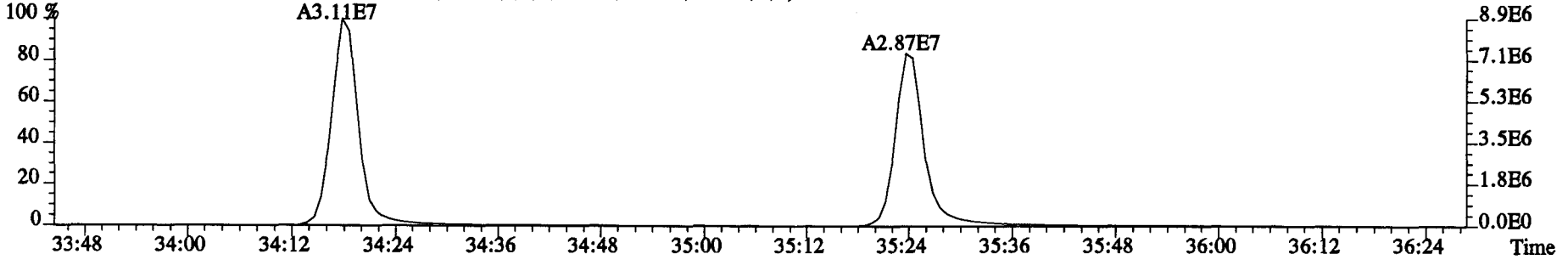
409.7789 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1472.0,1.00%,F,T)



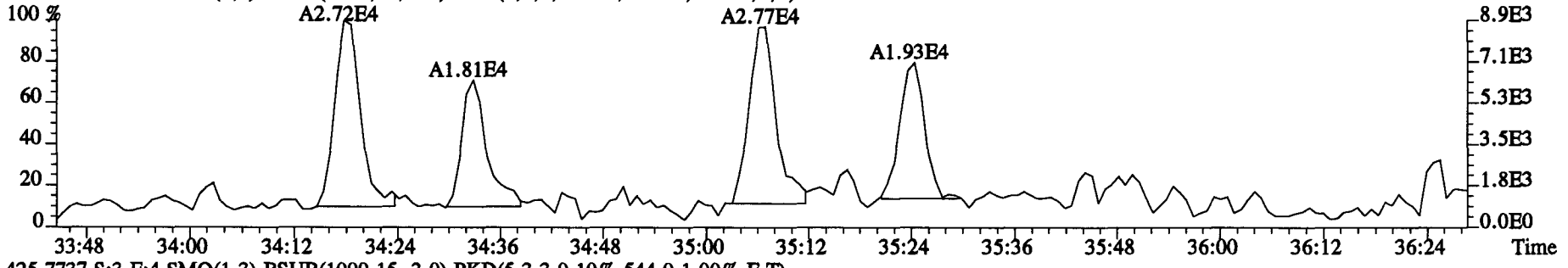
417.8253 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7904.0,1.00%,F,T)



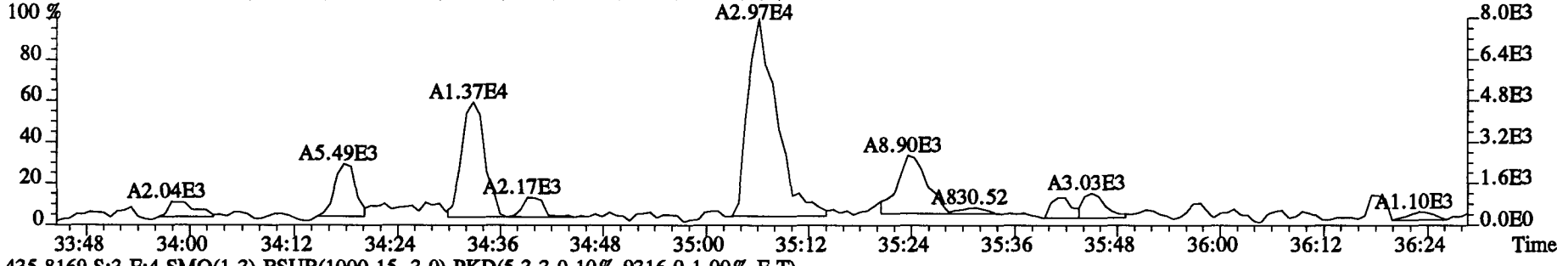
419.8220 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7984.0,1.00%,F,T)



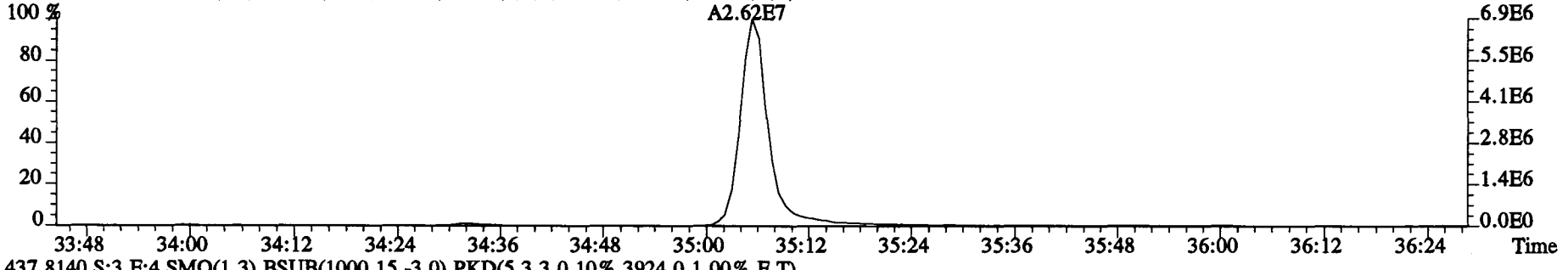
File:15DE109D5 #1-208 Acq:15-DEC-2010 11:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MA8N7-1-AA :G0L120000-012 (584-1MB) Exp:DIOXINRES
423.7766 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1384.0,1.00%,F,T)



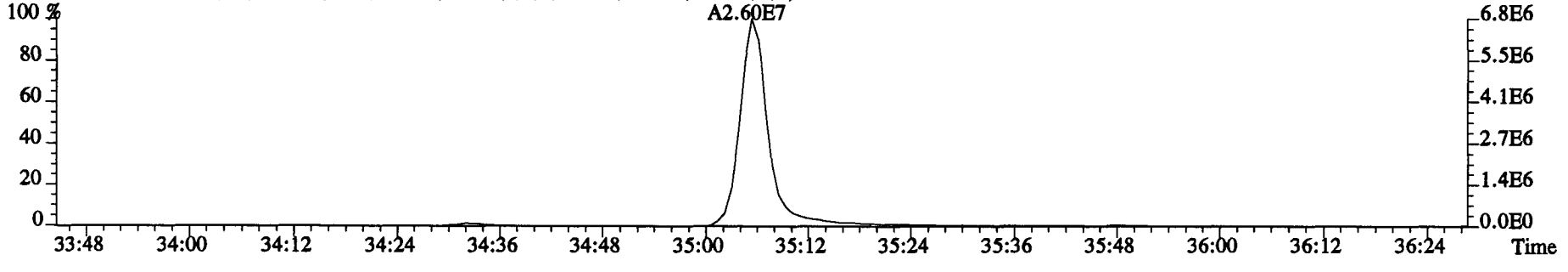
425.7737 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,544.0,1.00%,F,T)



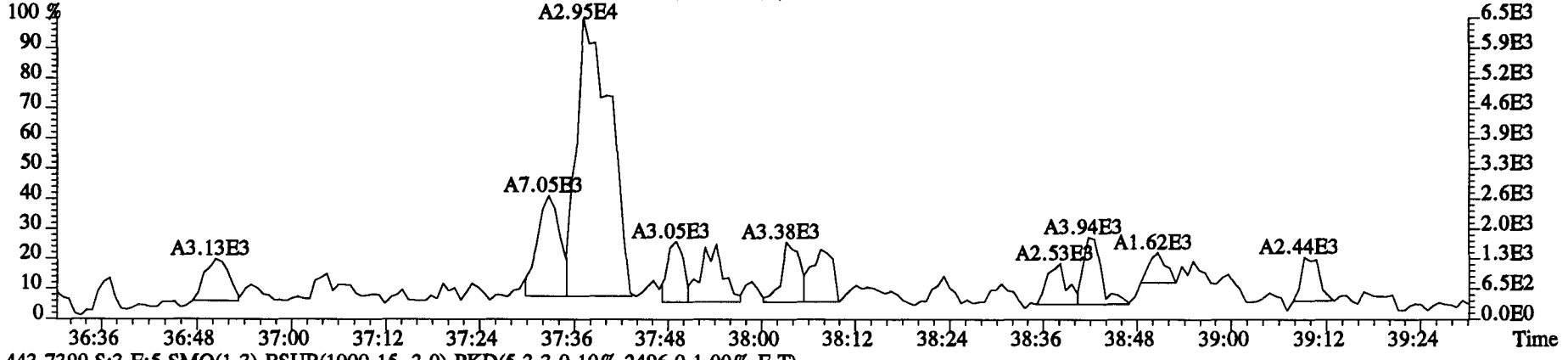
435.8169 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9316.0,1.00%,F,T)



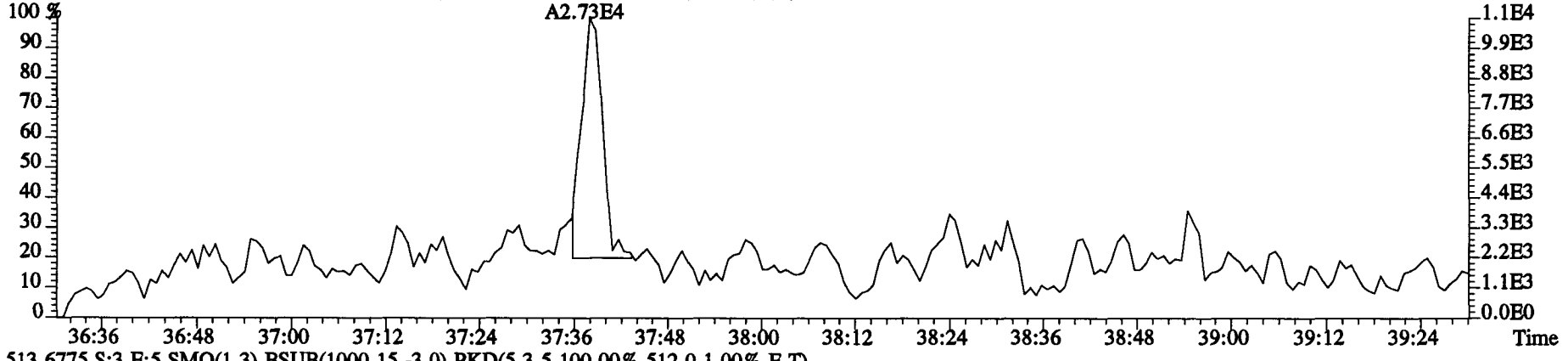
437.8140 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3924.0,1.00%,F,T)



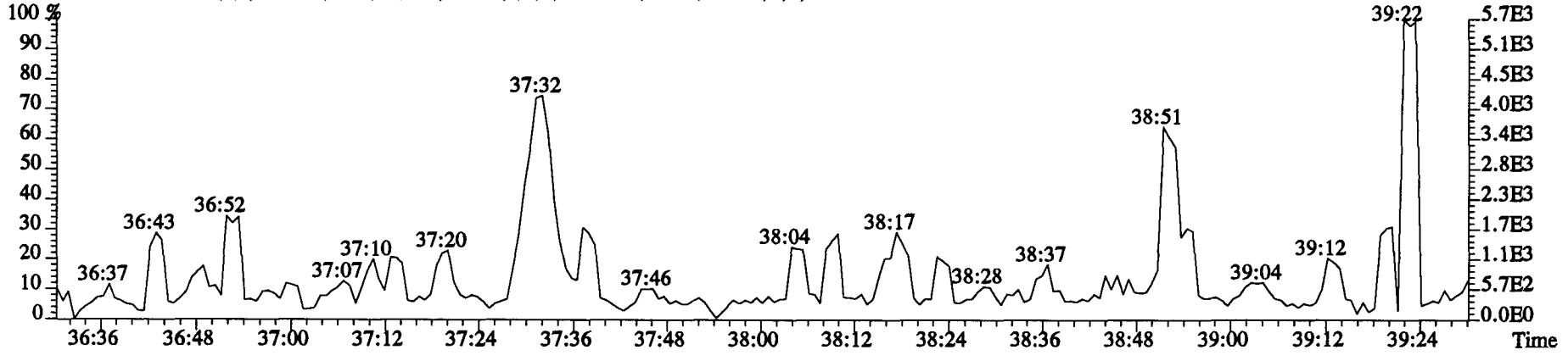
File:15DE109D5 #1-243 Acq:15-DEC-2010 11:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MA8N7-1-AA :G0L120000-012 (584-1MB) Exp:DIOXINRES
441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,664.0,1.00%,F,T)



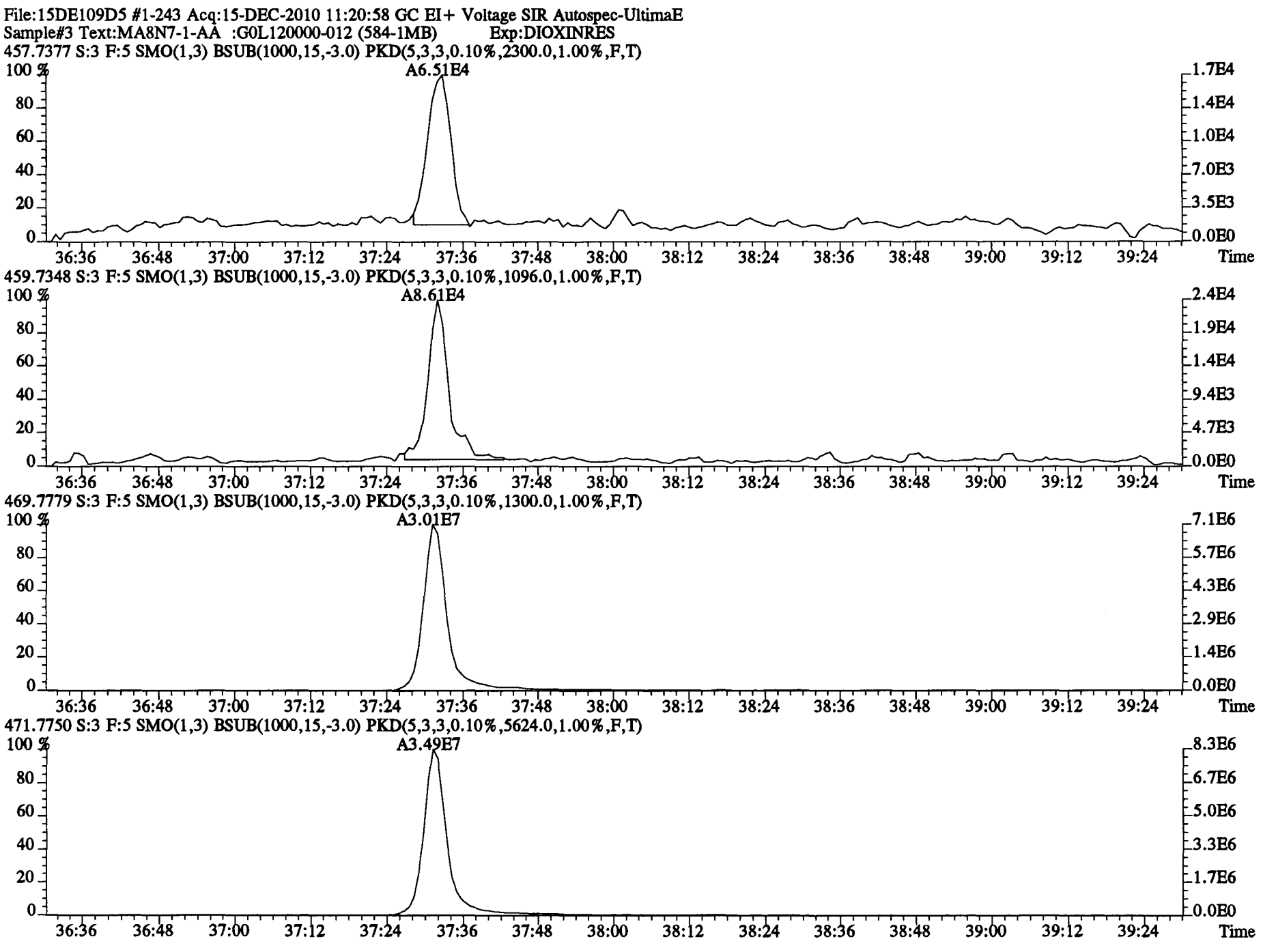
443.7399 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2496.0,1.00%,F,T)



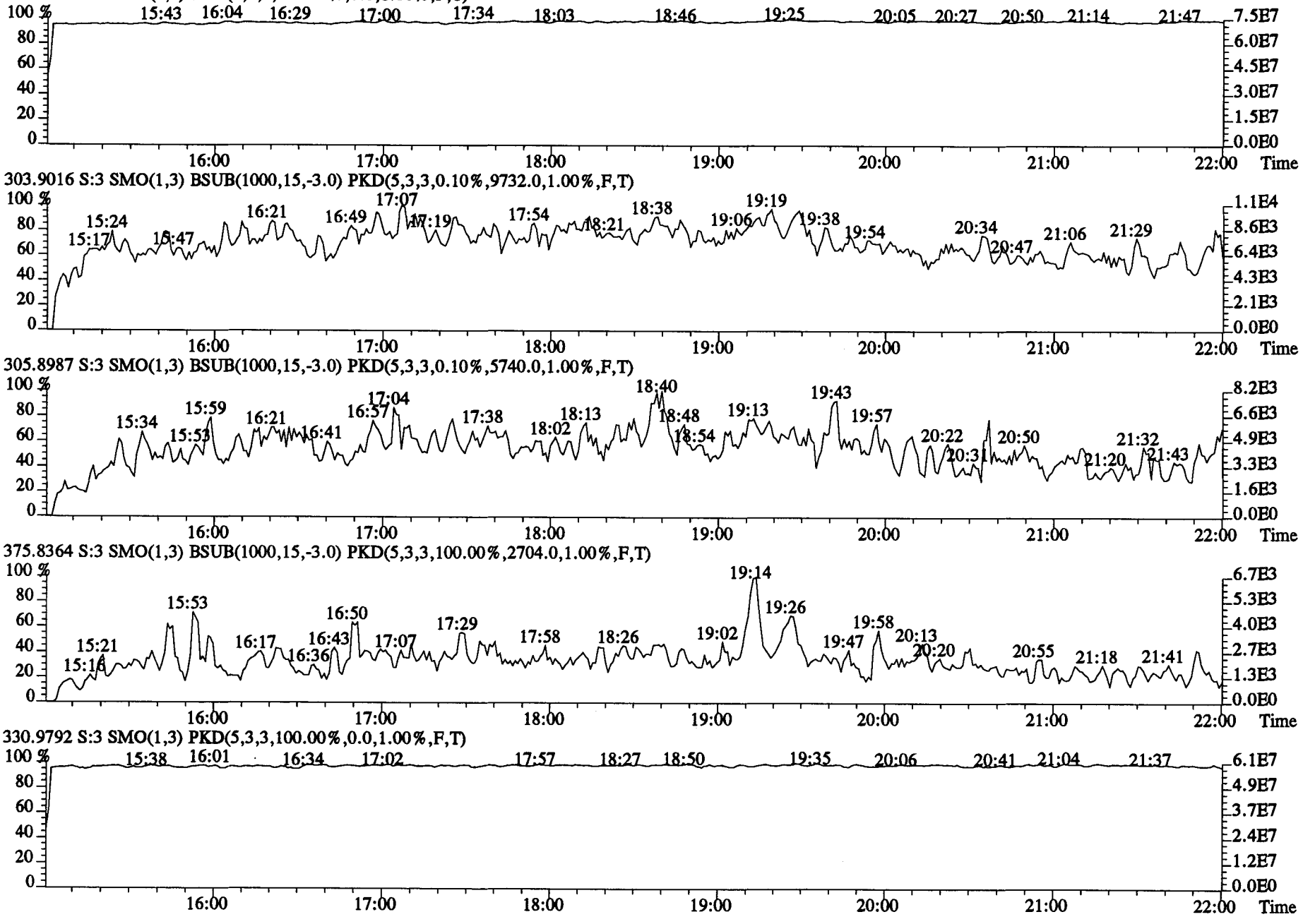
513.6775 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,512.0,1.00%,F,T)



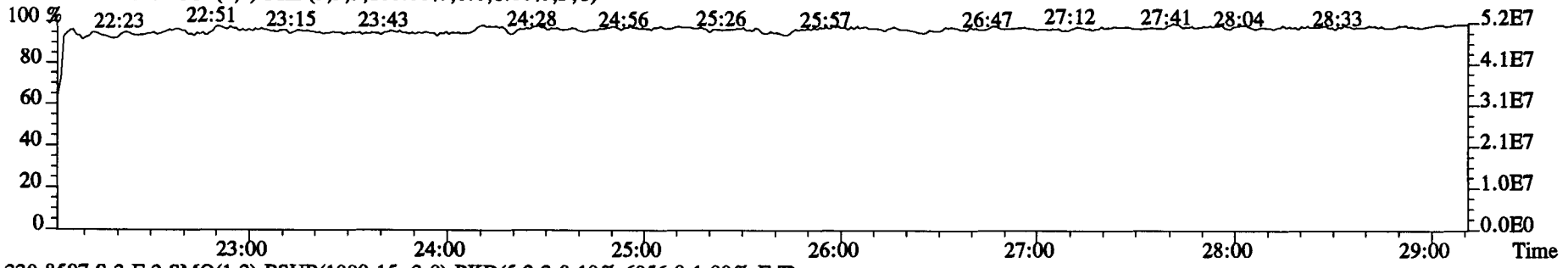
File:15DE109D5 #1-243 Acq:15-DEC-2010 11:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MA8N7-1-AA :G0L120000-012 (584-1MB) Exp:DIOXINRES



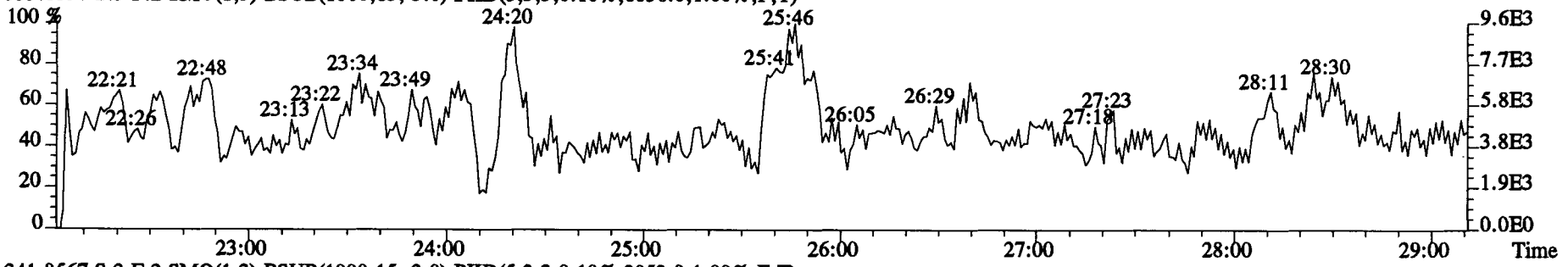
File:15DE109D5 #1-464 Acq:15-DEC-2010 11:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MA8N7-1-AA :G0L120000-012 (584-1MB) Exp:DIOXINRES



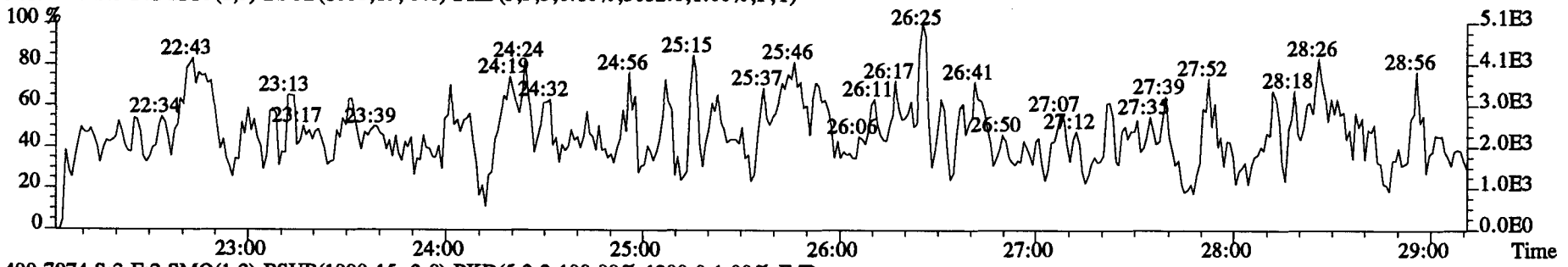
File:15DE109D5 #1-460 Acq:15-DEC-2010 11:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MA8N7-1-AA :G0L120000-012 (584-1MB) Exp:DIOXINRES
342.9792 S:3 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



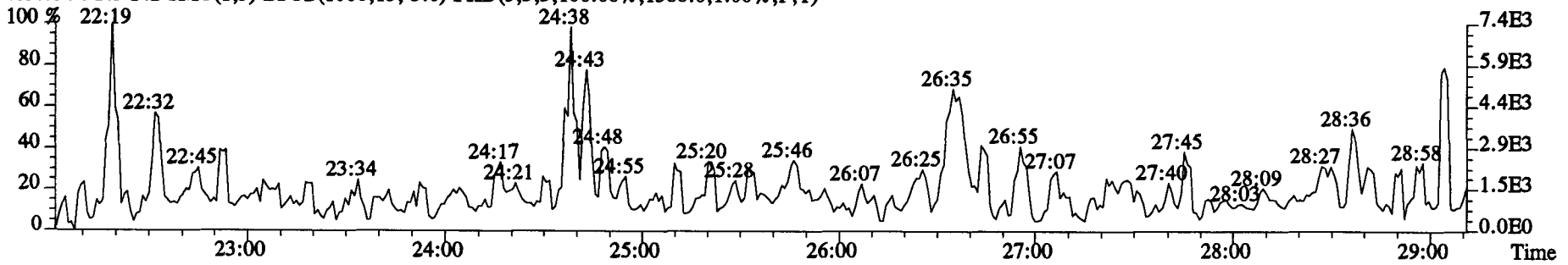
339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6056.0,1.00%,F,T)



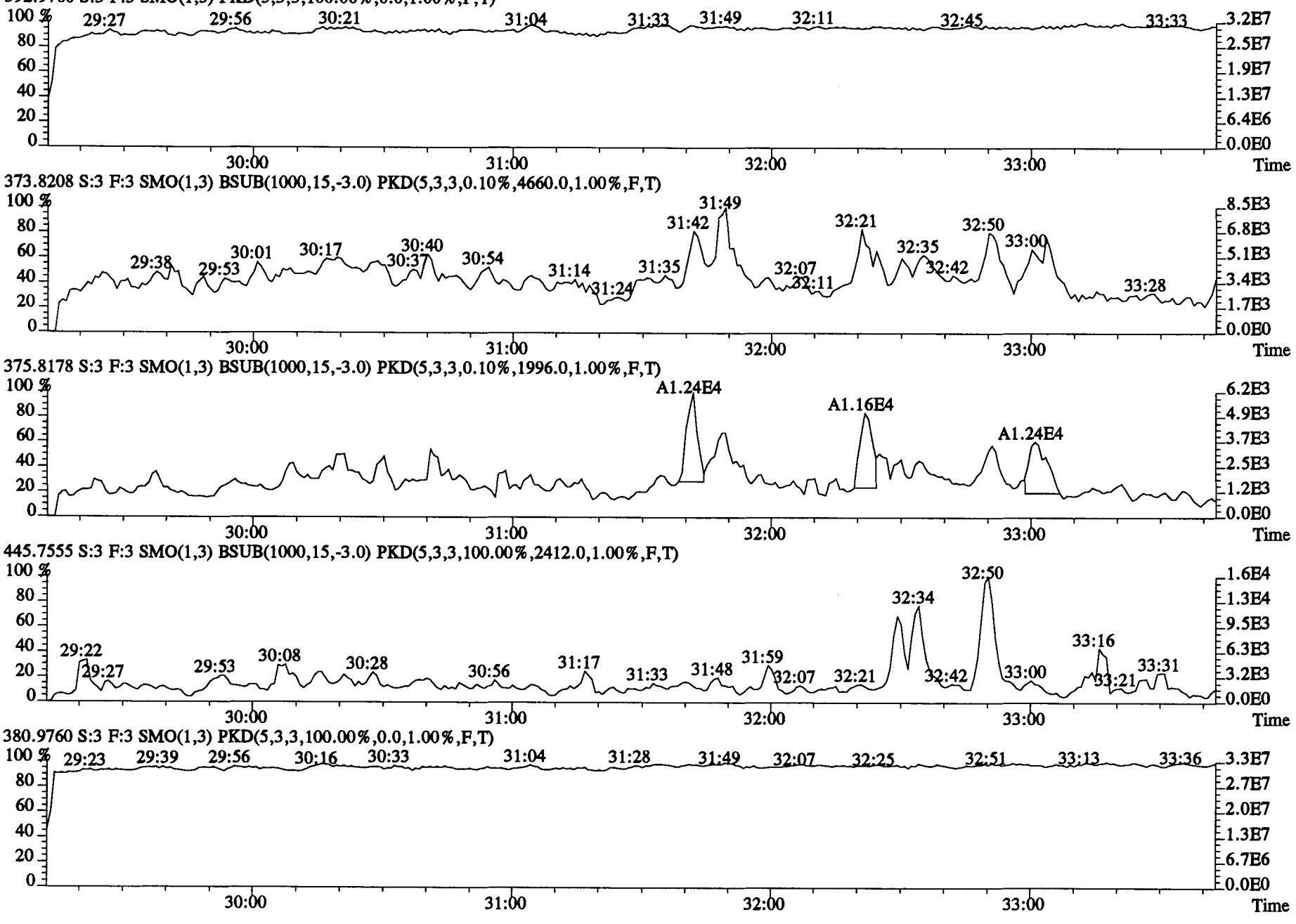
341.8567 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3052.0,1.00%,F,T)



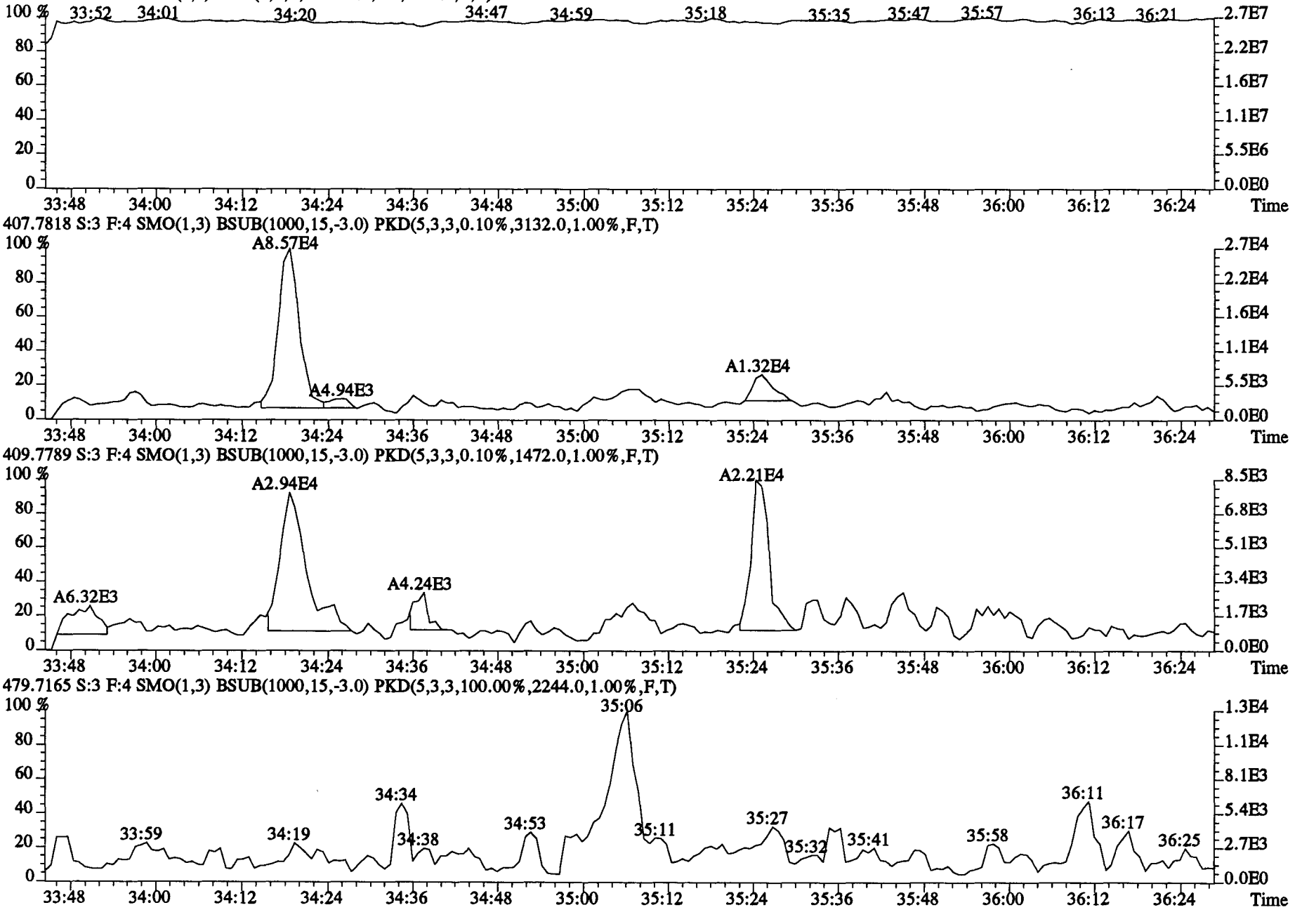
409.7974 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1380.0,1.00%,F,T)



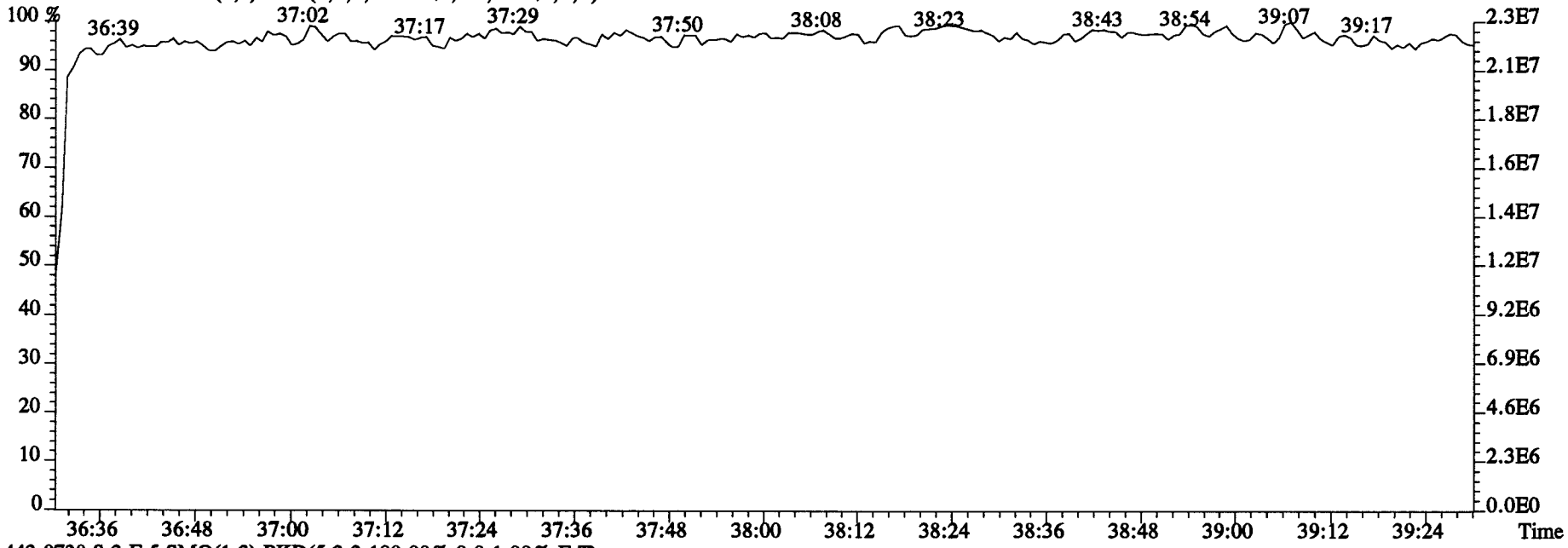
File:15DE109D5 #1-325 Acq:15-DEC-2010 11:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MA8N7-1-AA :G0L120000-012 (584-1MB) Exp:DIOXINRES



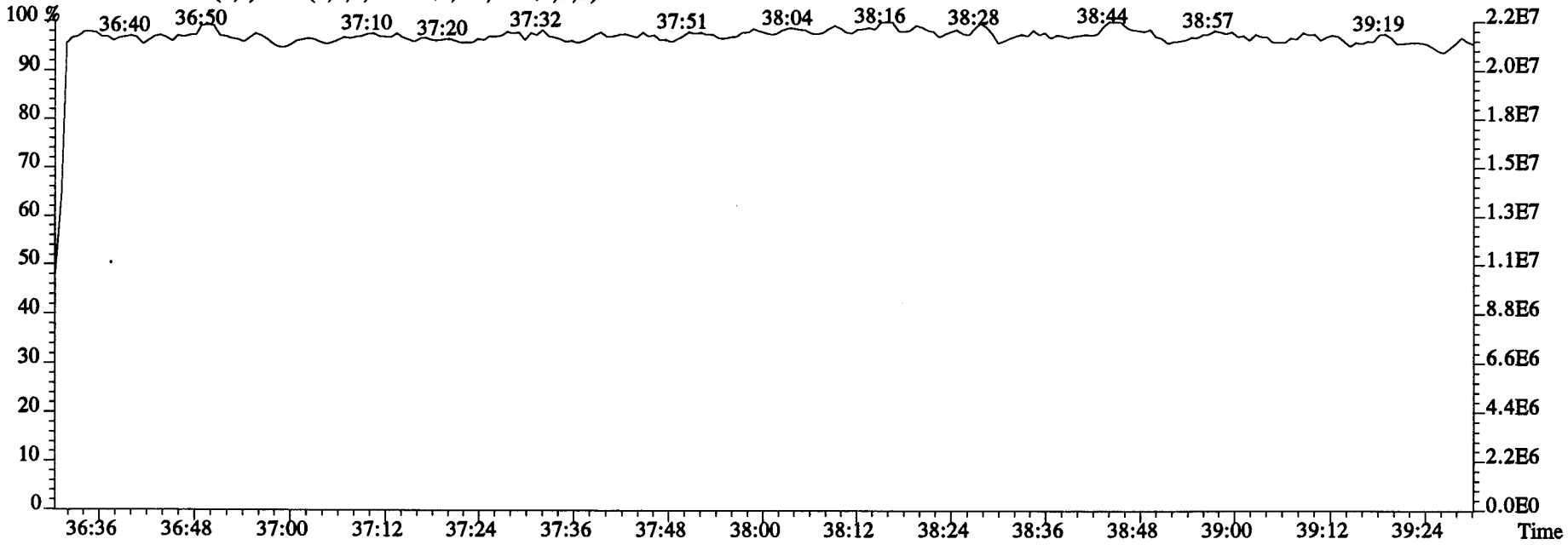
File:15DE109D5 #1-208 Acq:15-DEC-2010 11:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MA8N7-1-AA :G0L120000-012 (584-1MB) Exp:DIOXINRES



File:15DE109D5 #1-243 Acq:15-DEC-2010 11:20:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MA8N7-1-AA :G0L120000-012 (584-1MB) Exp:DIOXINRES
454.9728 S:3 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

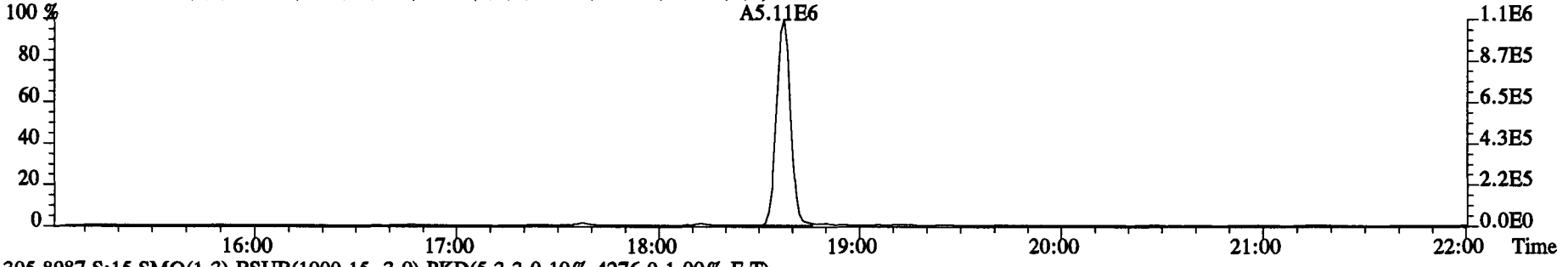


442.9728 S:3 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

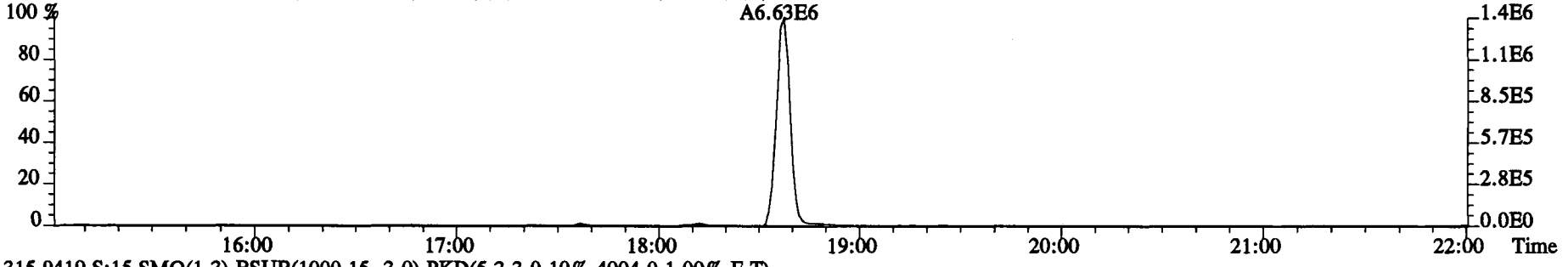


File:15DE109D5 #1-464 Acq:15-DEC-2010 20:05:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1215A :CS-3 10DXN505 Exp:DIOXINRES

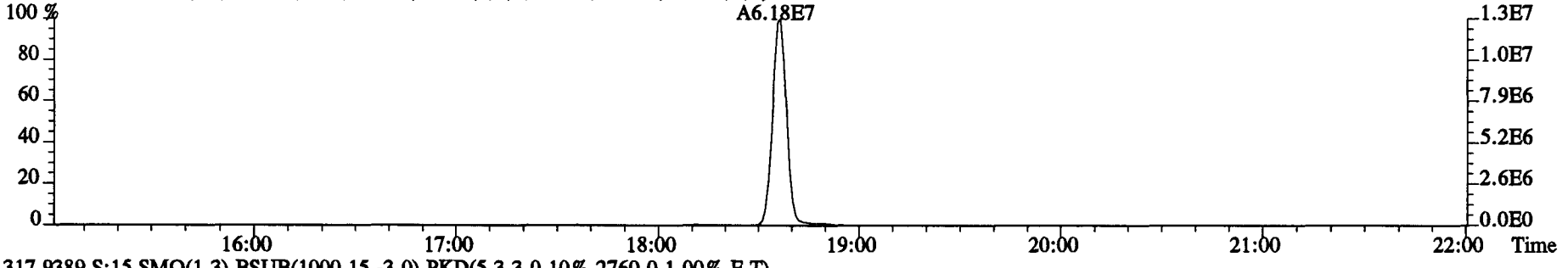
303.9016 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7404.0,1.00%,F,T)



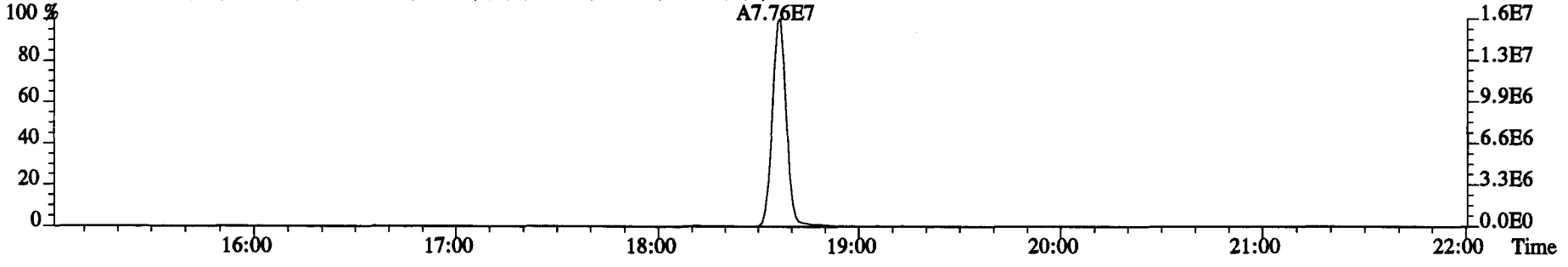
305.8987 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4276.0,1.00%,F,T)



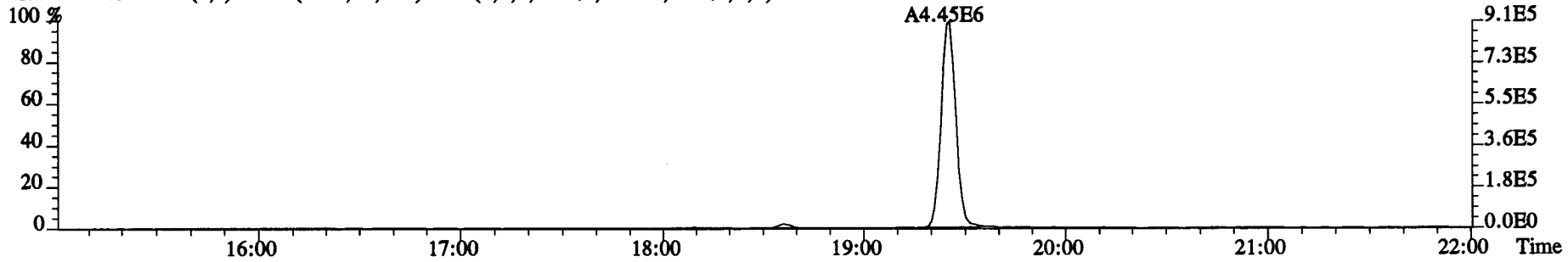
315.9419 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4004.0,1.00%,F,T)



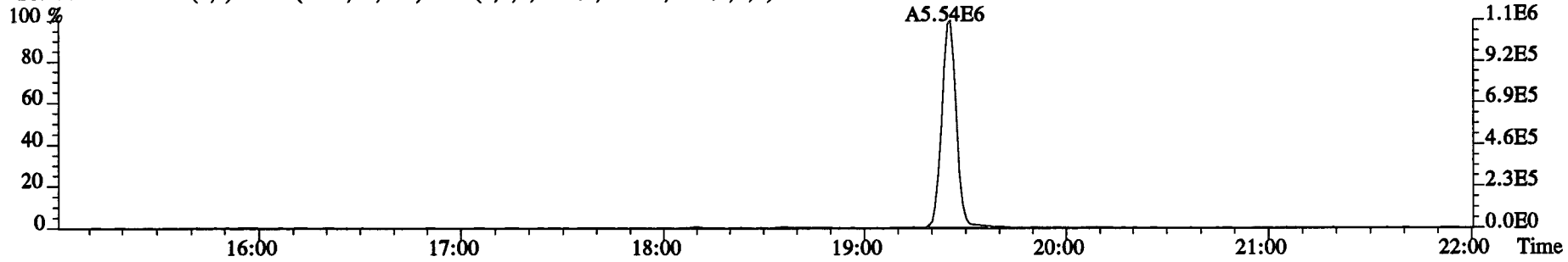
317.9389 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2760.0,1.00%,F,T)



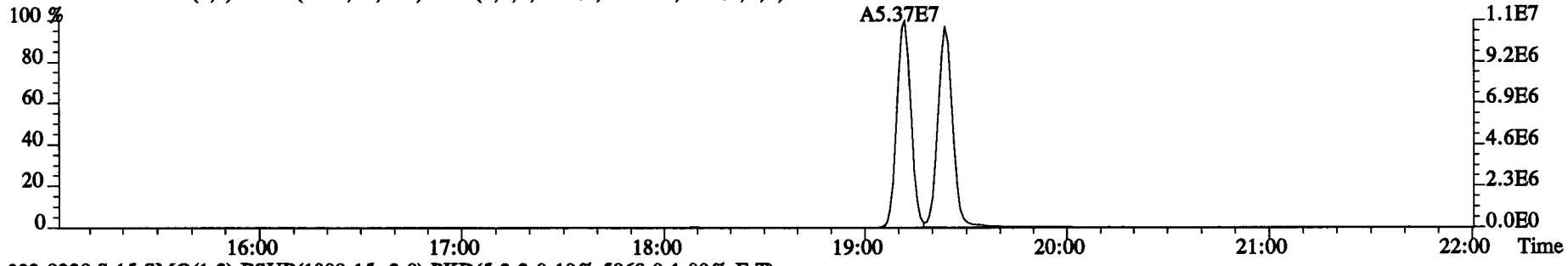
File:15DE109D5 #1-464 Acq:15-DEC-2010 20:05:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1215A :CS-3 10DXN505 Exp:DIOXINRES
319.8965 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2196.0,1.00%,F,T)



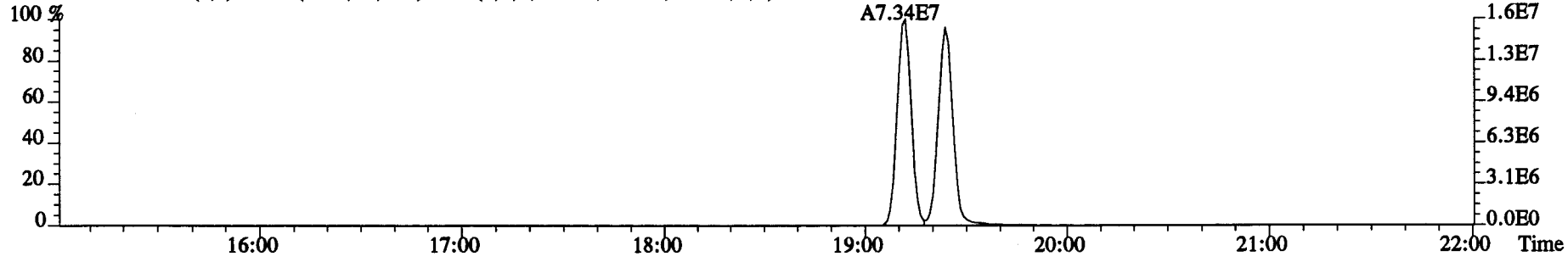
321.8936 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1900.0,1.00%,F,T)



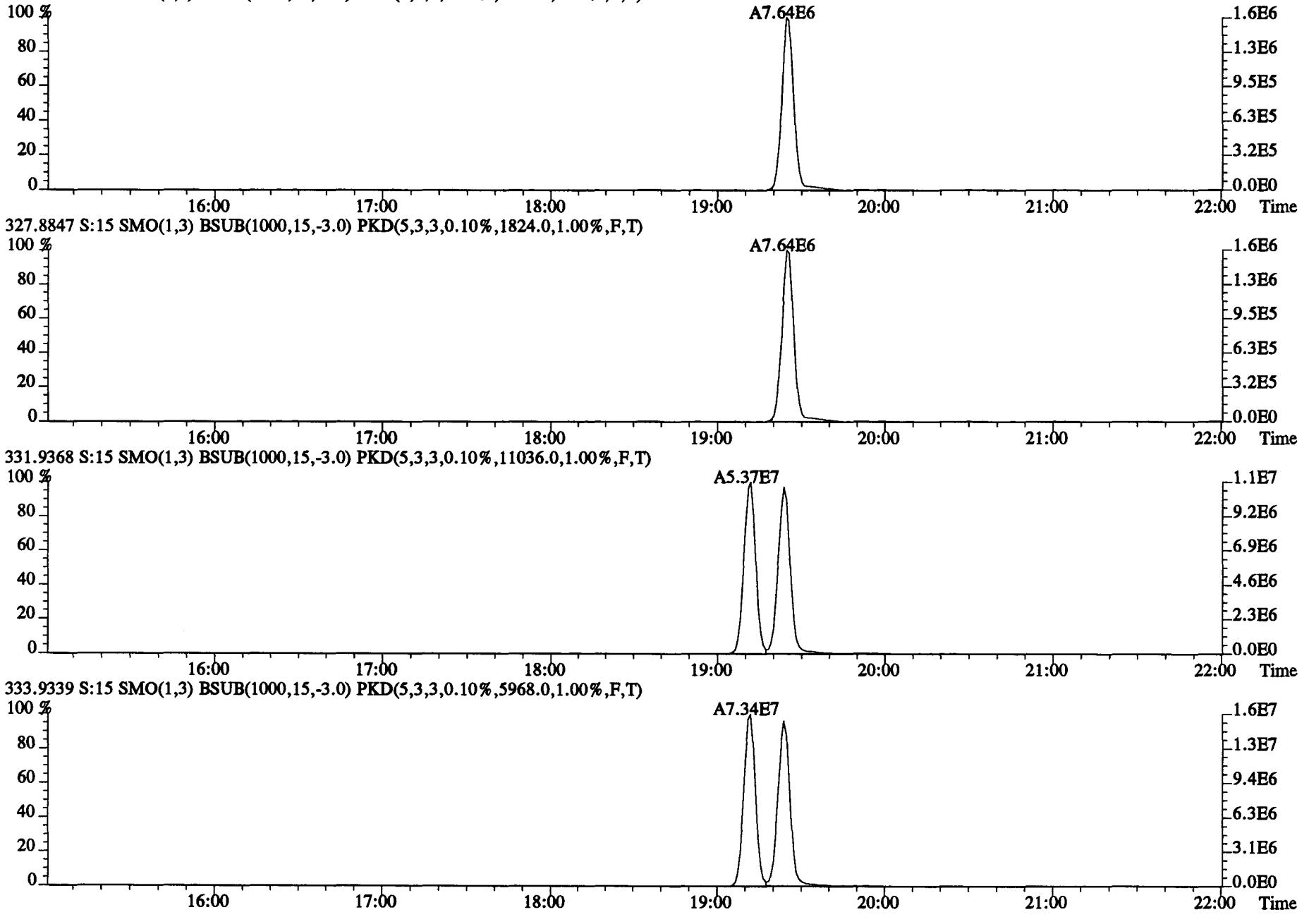
331.9368 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11036.0,1.00%,F,T)



333.9339 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5968.0,1.00%,F,T)

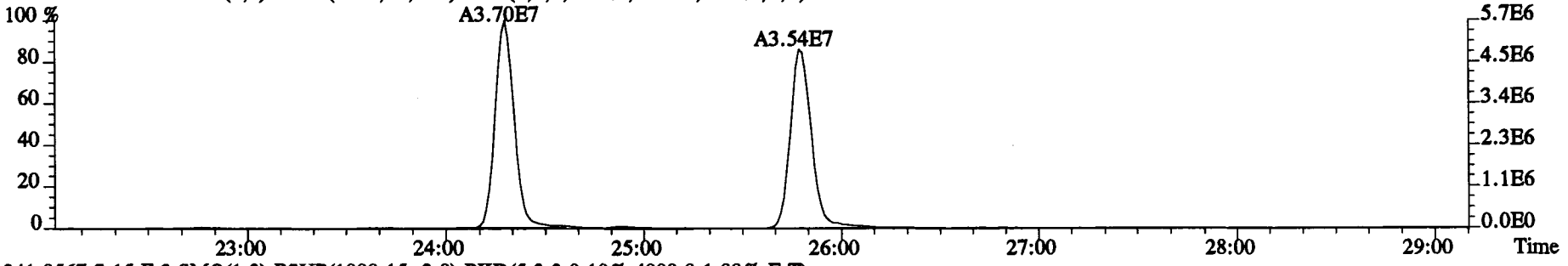


File:15DE109D5 #1-464 Acq:15-DEC-2010 20:05:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1215A :CS-3 10DXN505 Exp:DIOXINRES

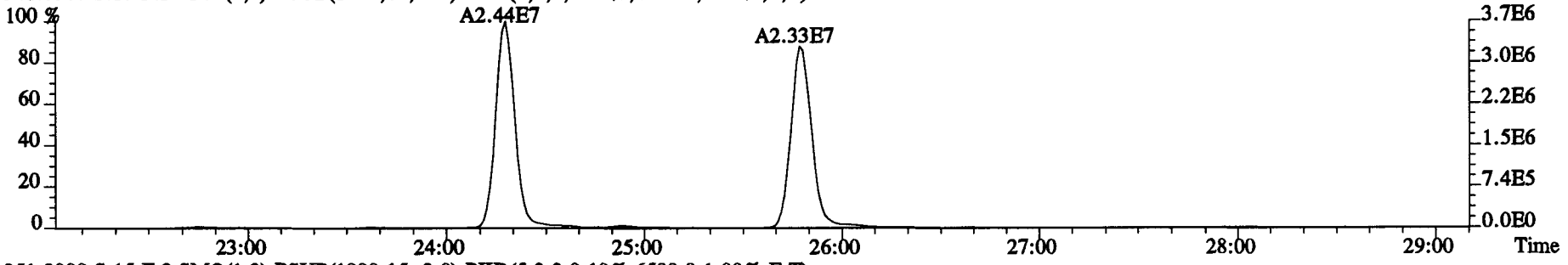


File:15DE109D5 #1-459 Acq:15-DEC-2010 20:05:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1215A :CS-3 10DXN505 Exp:DIOXINRES

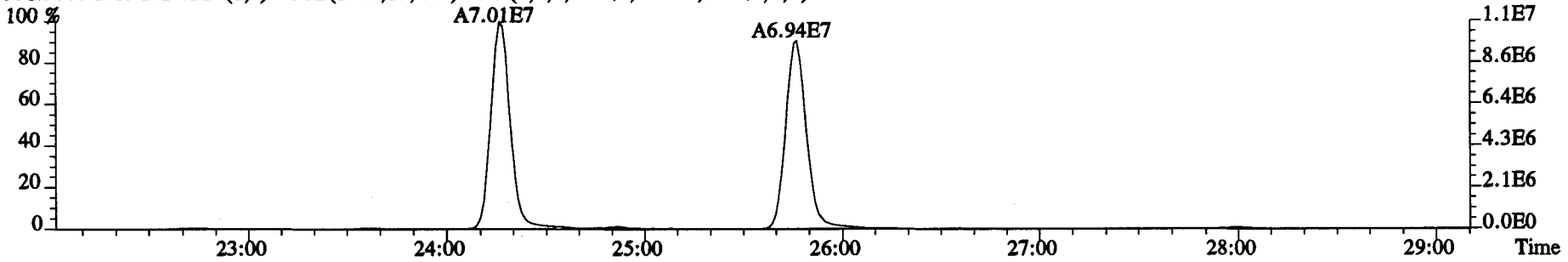
339.8597 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8216.0,1.00%,F,T)



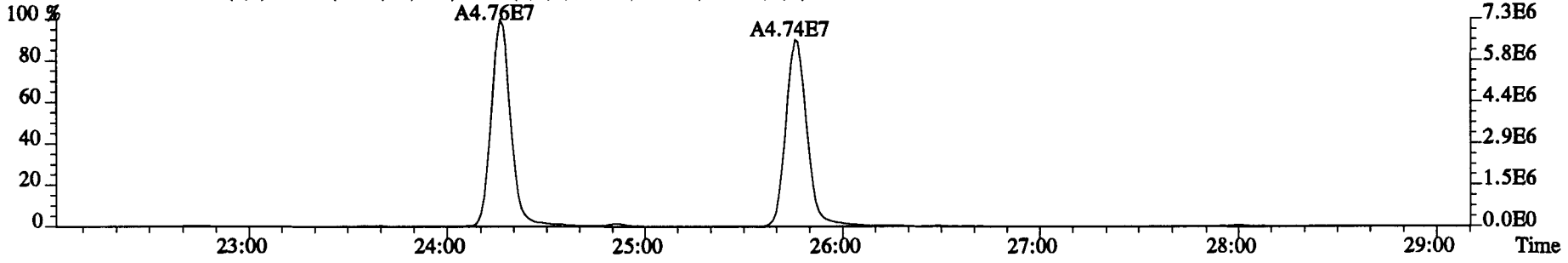
341.8567 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4000.0,1.00%,F,T)



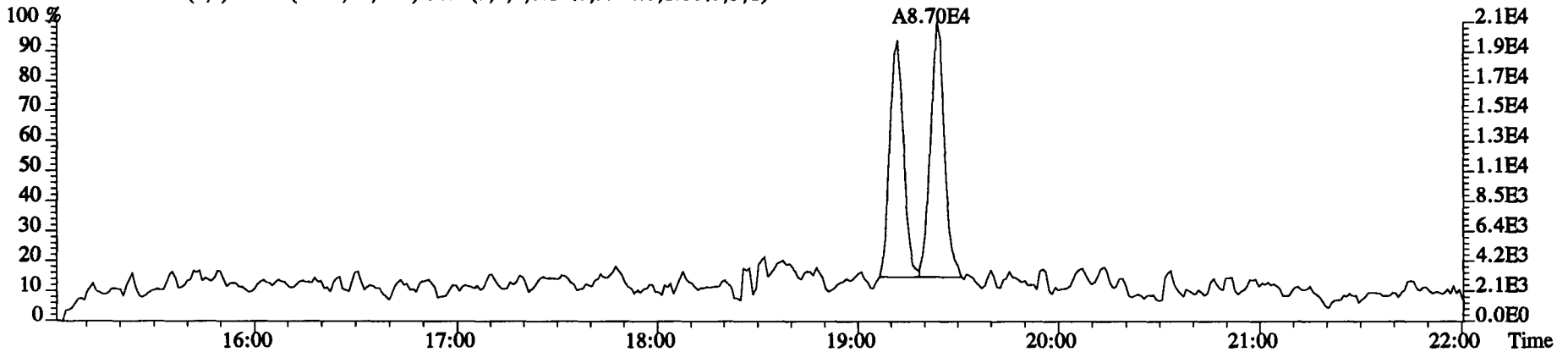
351.9000 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6580.0,1.00%,F,T)



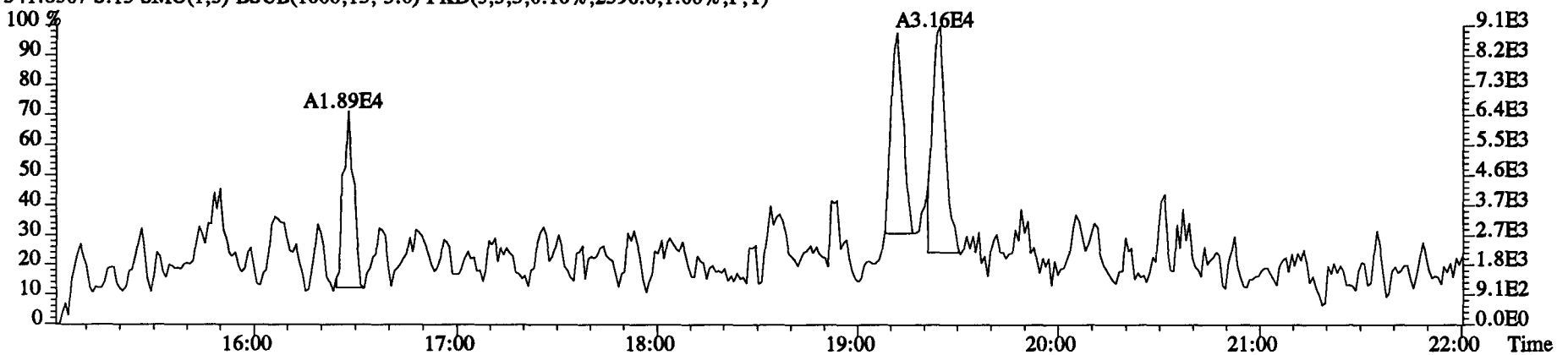
353.8970 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5396.0,1.00%,F,T)



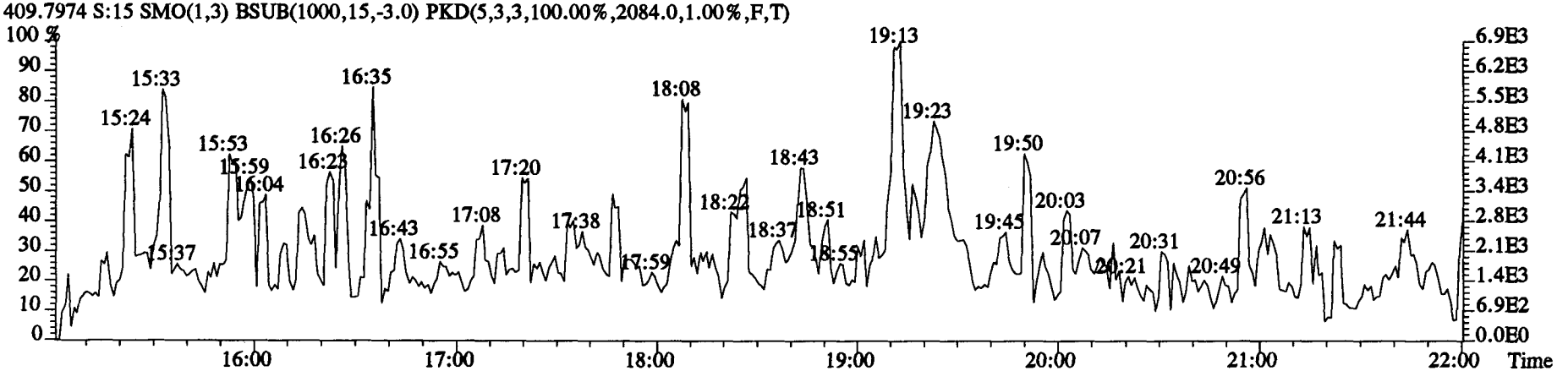
File:15DE109D5 #1-464 Acq:15-DEC-2010 20:05:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1215A :CS-3 10DXN505 Exp:DIOXINRES
339.8597 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3364.0,1.00%,F,T)



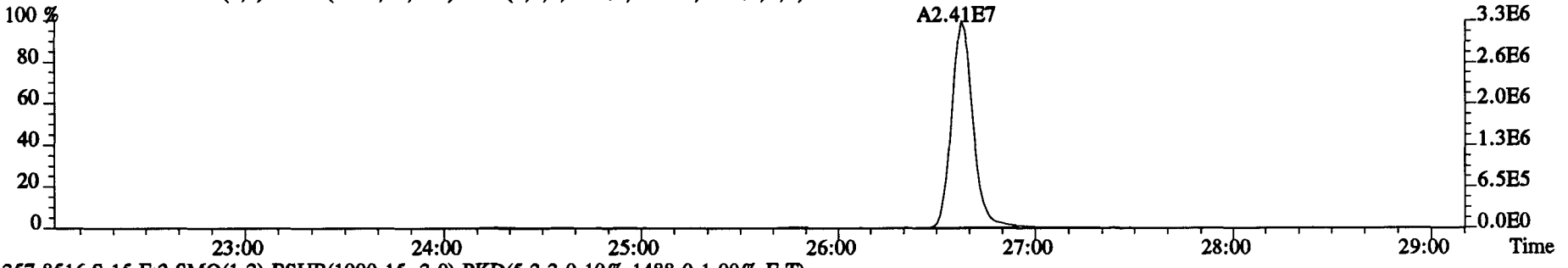
341.8567 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2596.0,1.00%,F,T)



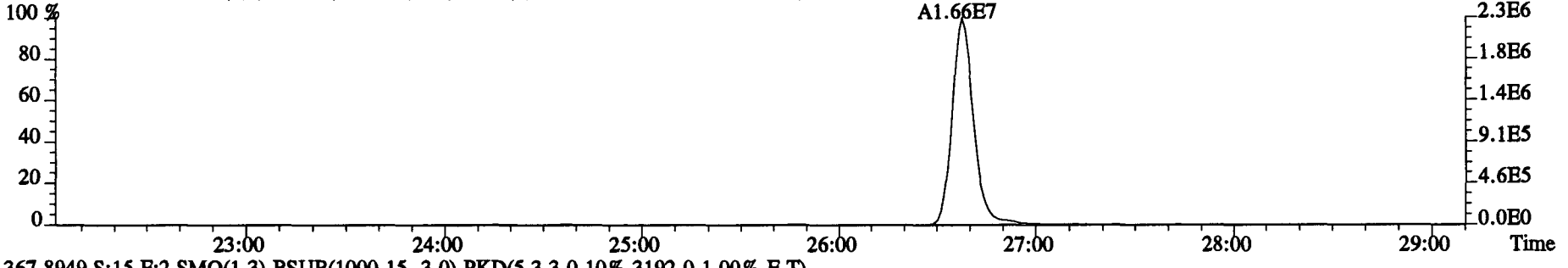
409.7974 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2084.0,1.00%,F,T)



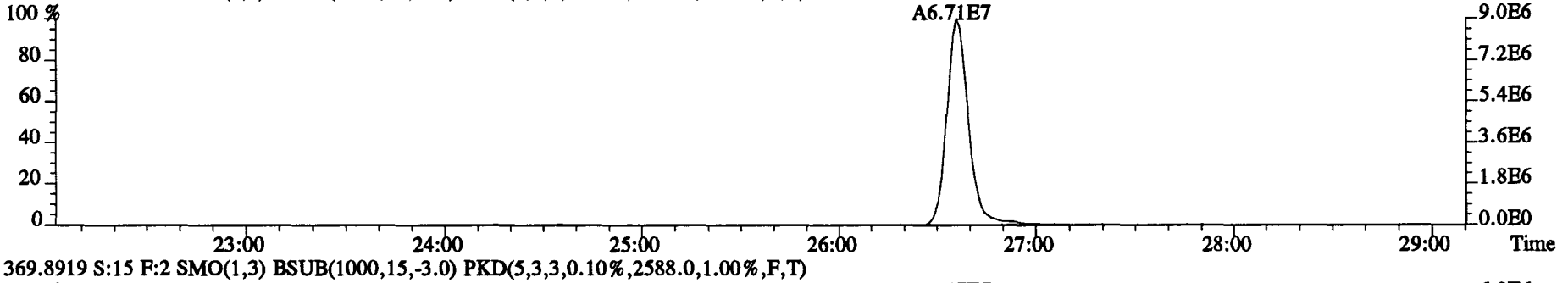
File:15DE109D5 #1-459 Acq:15-DEC-2010 20:05:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1215A :CS-3 10DXN505 Exp:DIOXINRES
355.8546 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2780.0,1.00%,F,T)



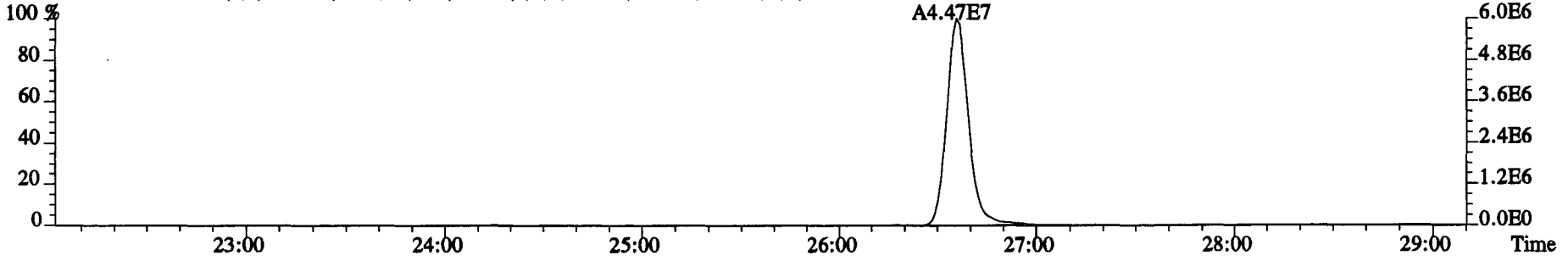
357.8516 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1488.0,1.00%,F,T)



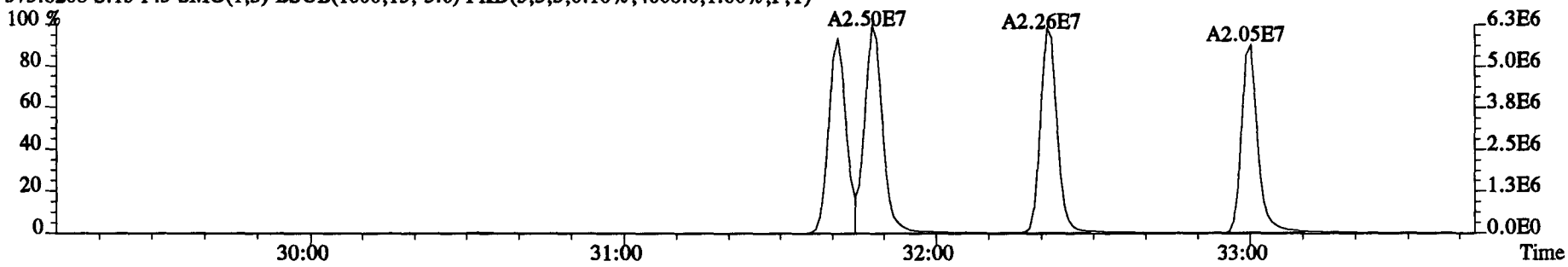
367.8949 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3192.0,1.00%,F,T)

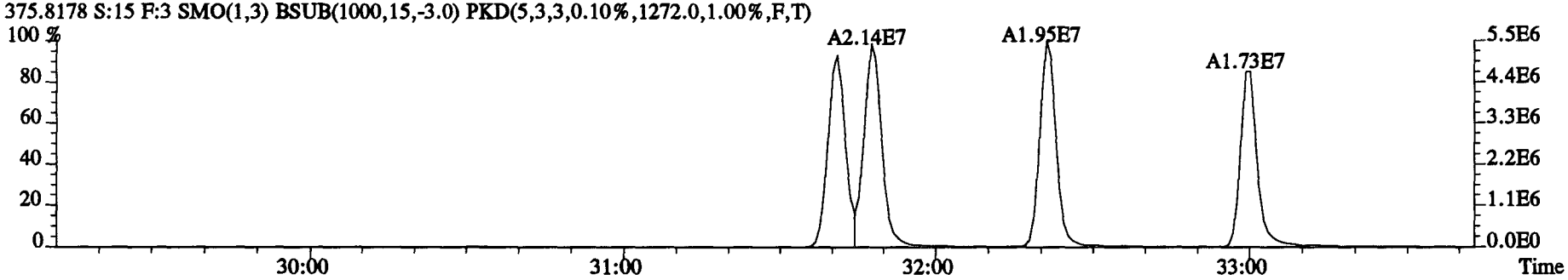


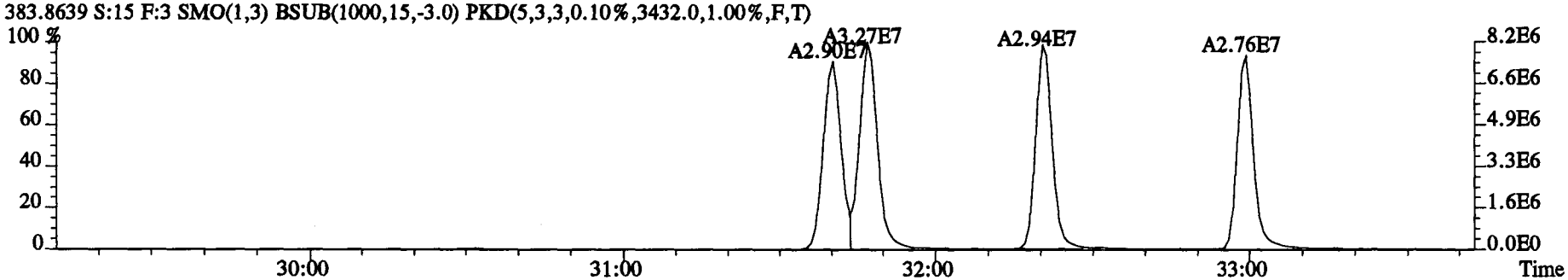
369.8919 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2588.0,1.00%,F,T)

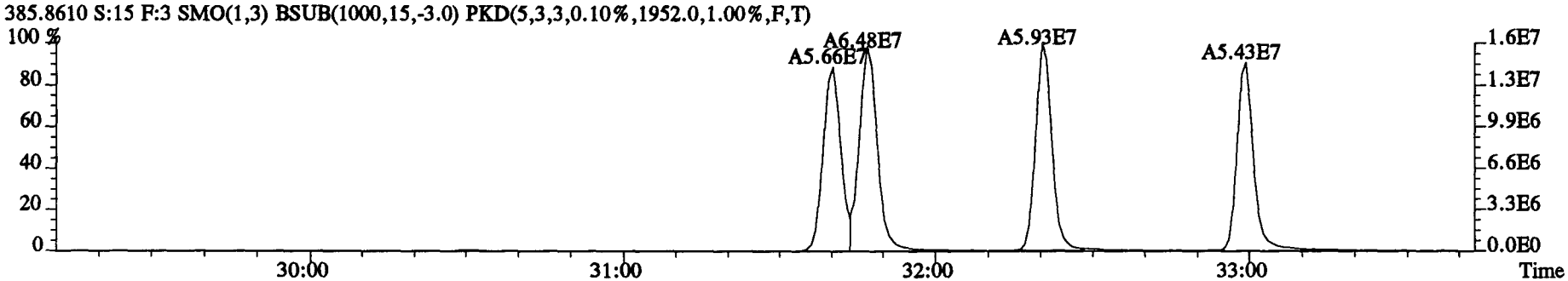


File:15DE109D5 #1-326 Acq:15-DEC-2010 20:05:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1215A :CS-3 10DXN505 Exp:DIOXINRES



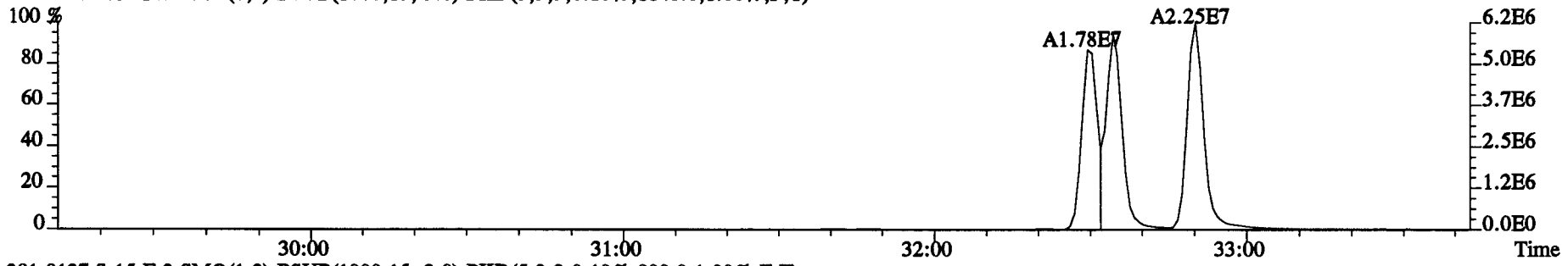




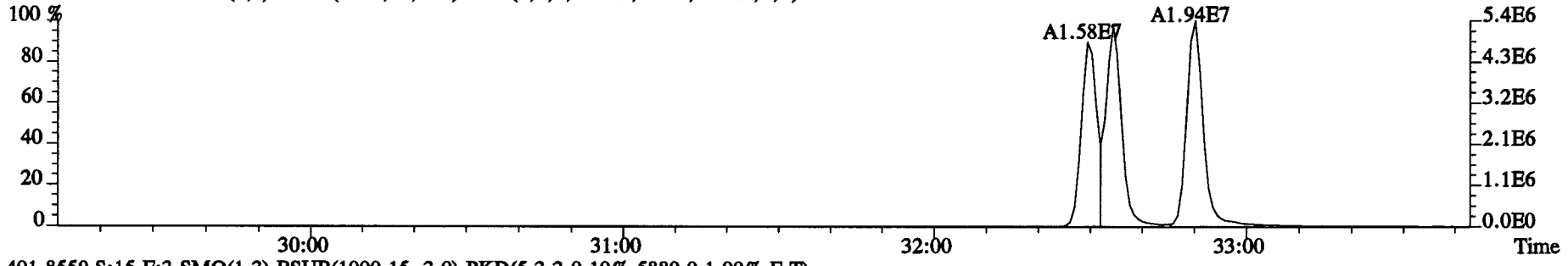


File:15DE109D5 #1-326 Acq:15-DEC-2010 20:05:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1215A :CS-3 10DXN505 Exp:DIOXINRES

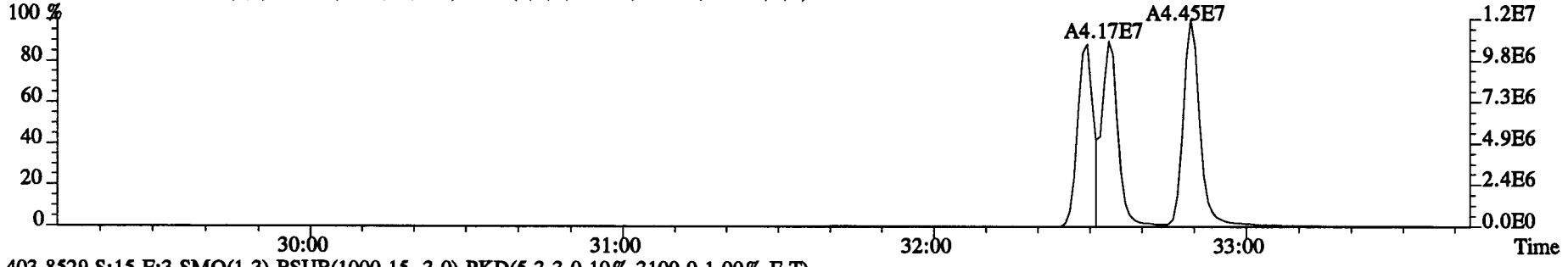
389.8157 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1148.0,1.00%,F,T)



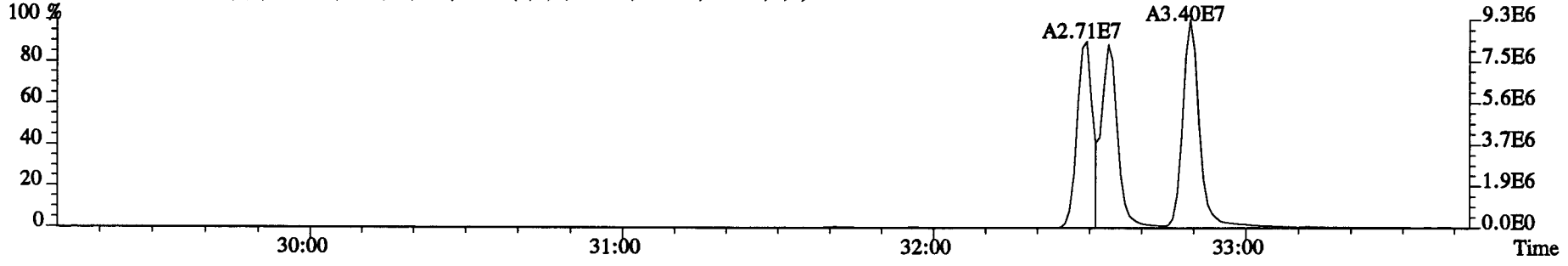
391.8127 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,900.0,1.00%,F,T)



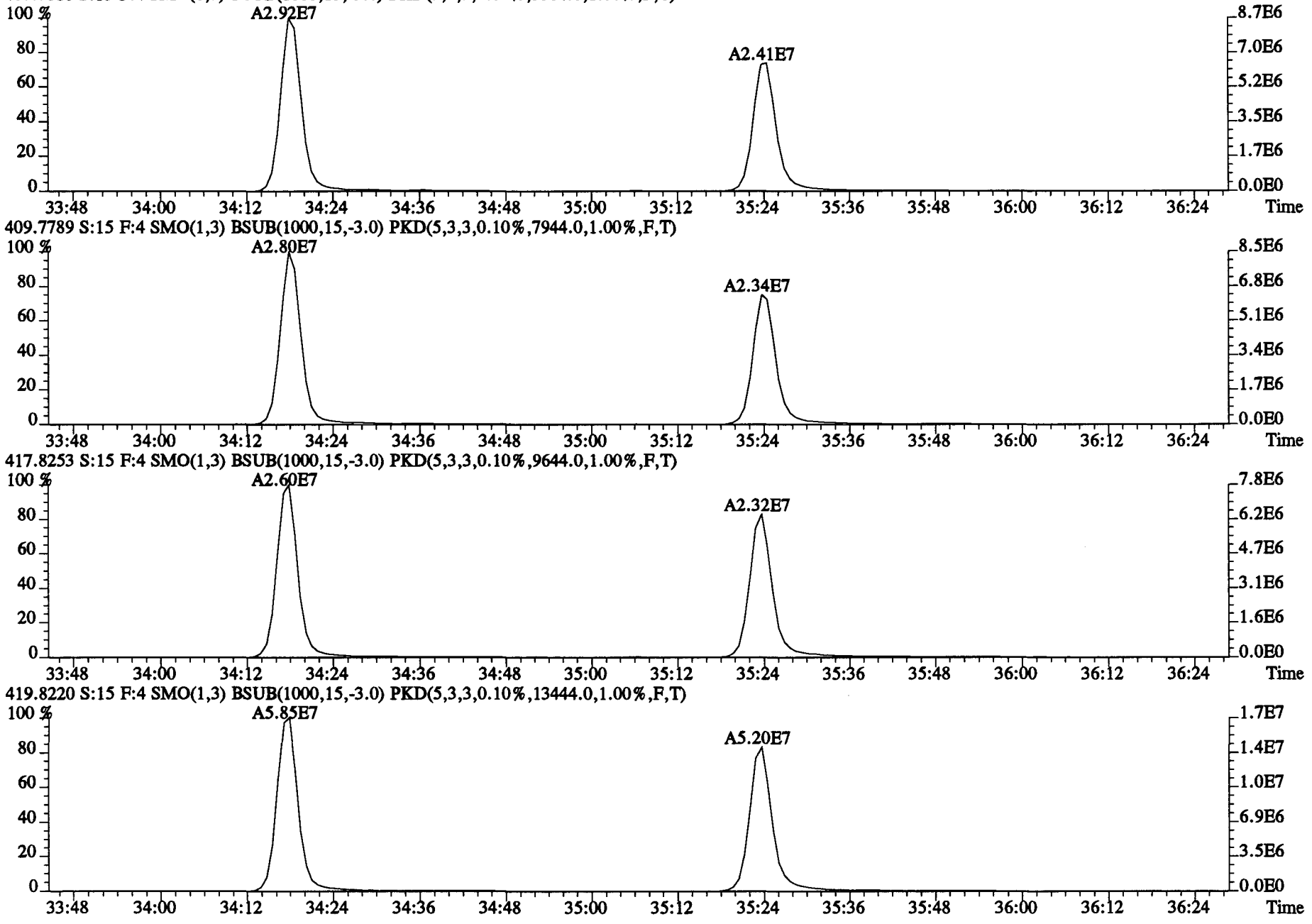
401.8559 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5880.0,1.00%,F,T)



403.8529 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3100.0,1.00%,F,T)

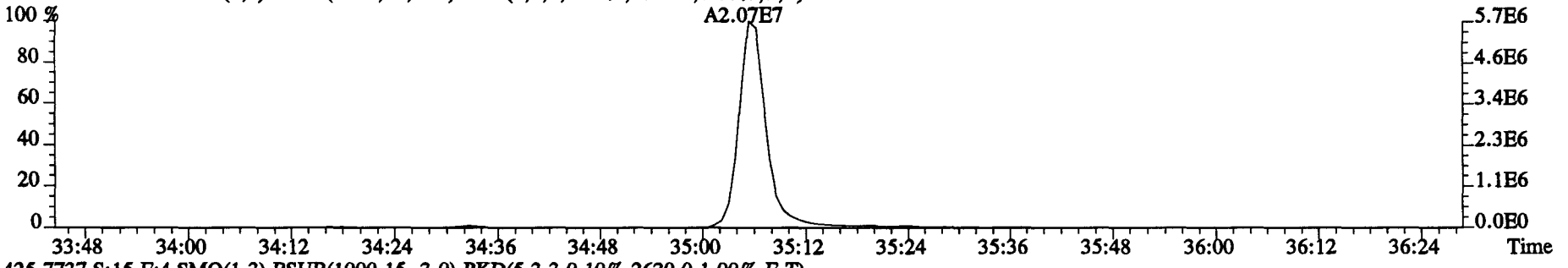


File:15DE109D5 #1-208 Acq:15-DEC-2010 20:05:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1215A :CS-3 10DXN505 Exp:DIOXINRES

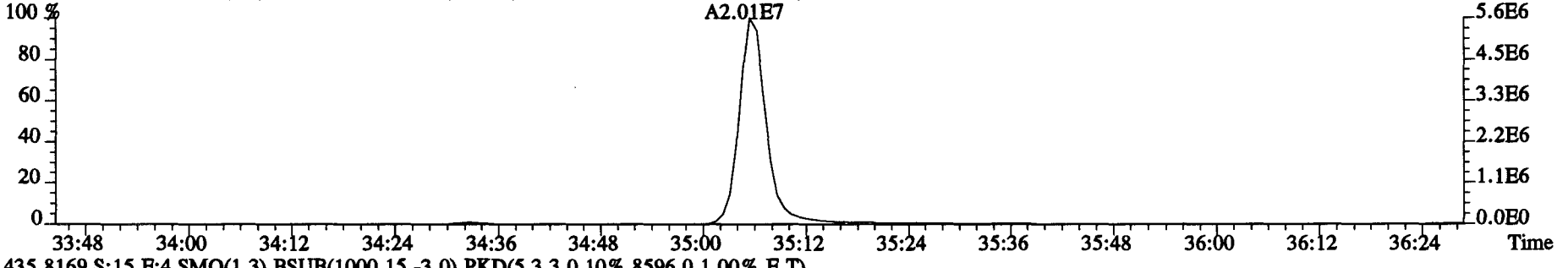


File:15DE109D5 #1-208 Acq:15-DEC-2010 20:05:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1215A :CS-3 10DXN505 Exp:DIOXINRES

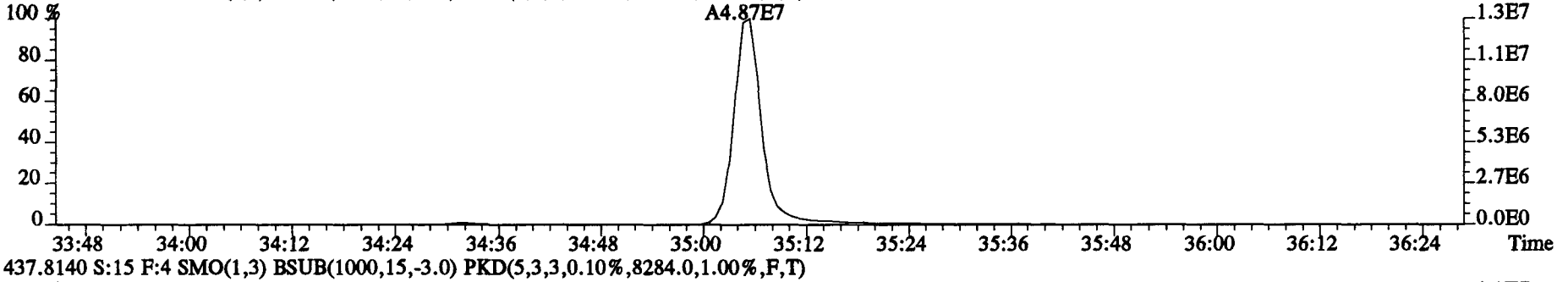
423.7766 S:15 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2860.0,1.00%,F,T)



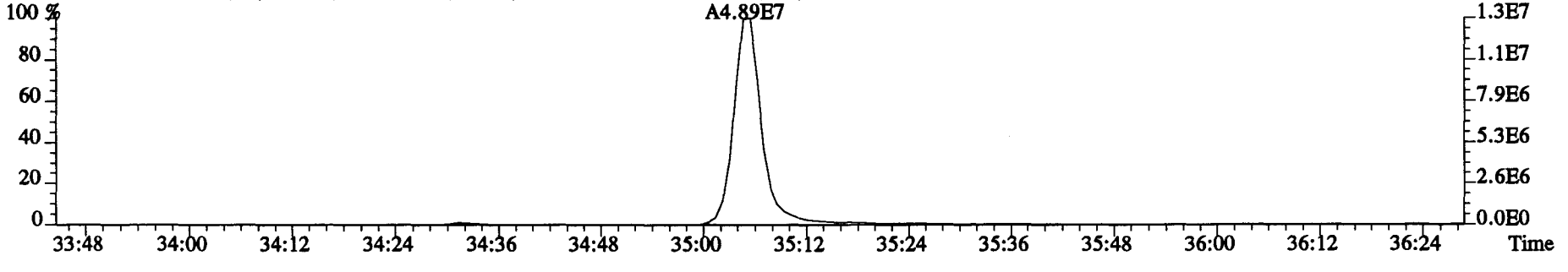
425.7737 S:15 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2620.0,1.00%,F,T)



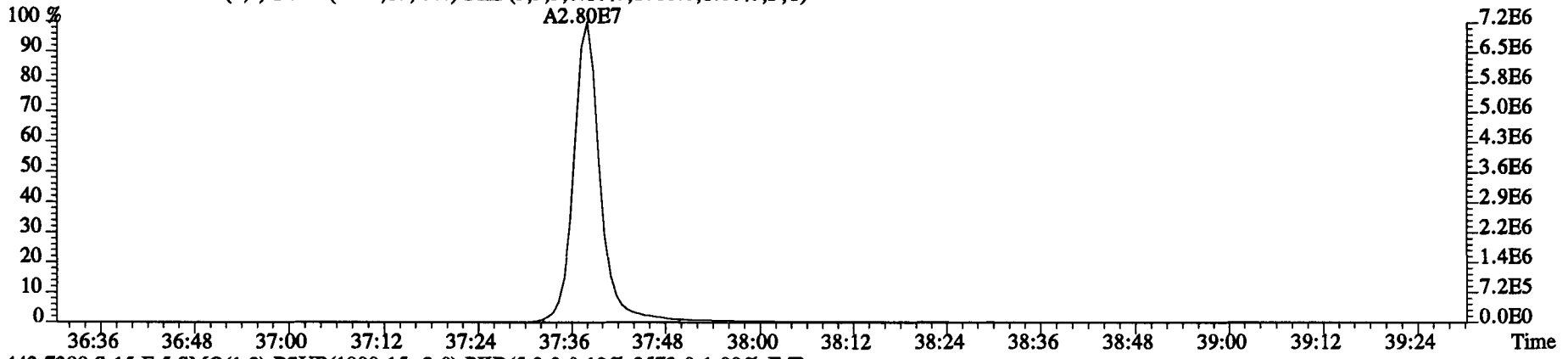
435.8169 S:15 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8596.0,1.00%,F,T)



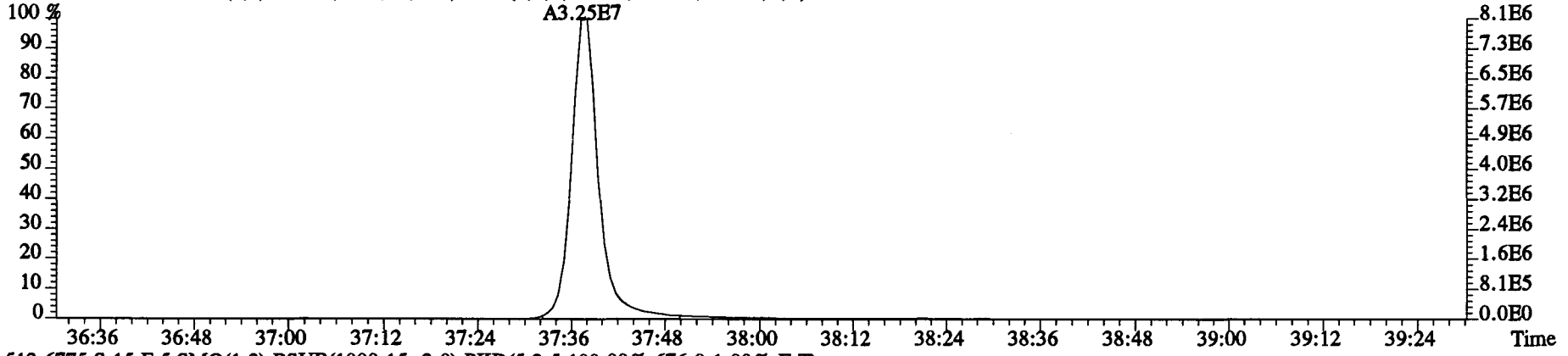
437.8140 S:15 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8284.0,1.00%,F,T)



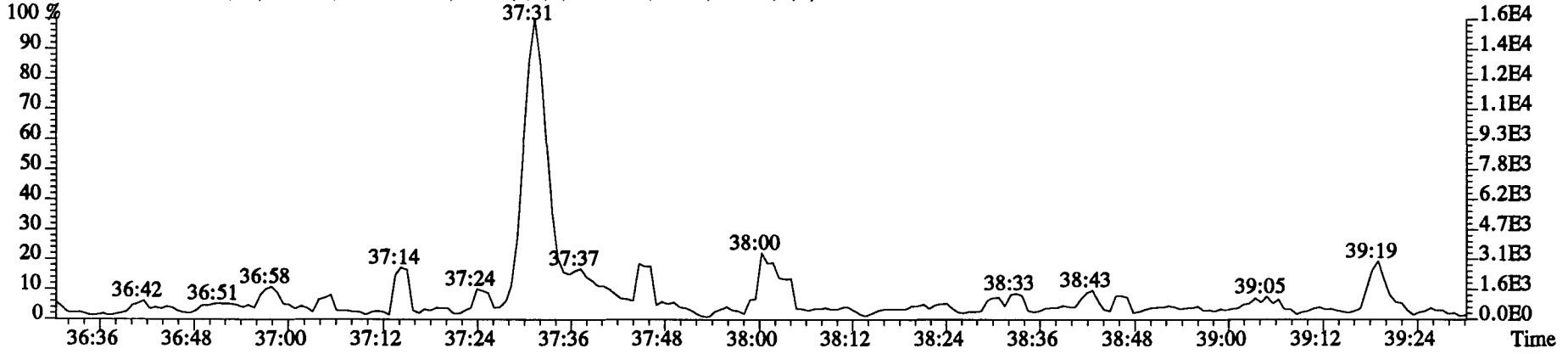
File:15DE109D5 #1-243 Acq:15-DEC-2010 20:05:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1215A :CS-3 10DXN505 Exp:DIOXINRES
441.7428 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1768.0,1.00%,F,T)



443.7399 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2572.0,1.00%,F,T)

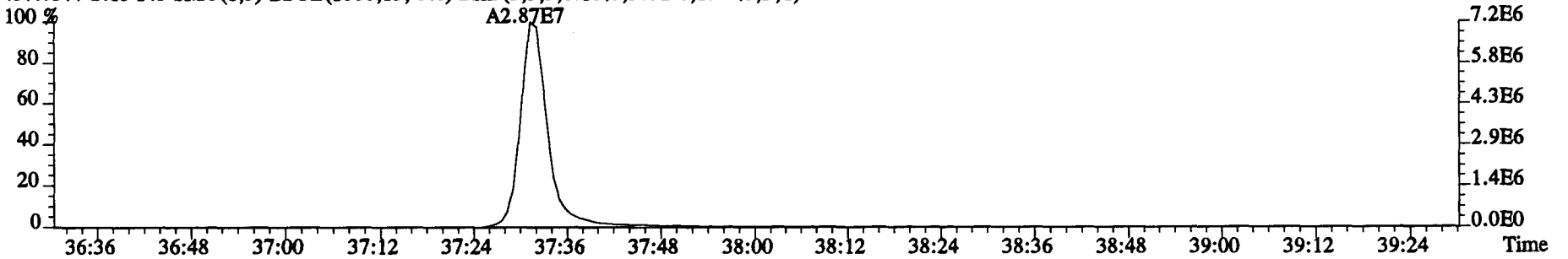


513.6775 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,676.0,1.00%,F,T)

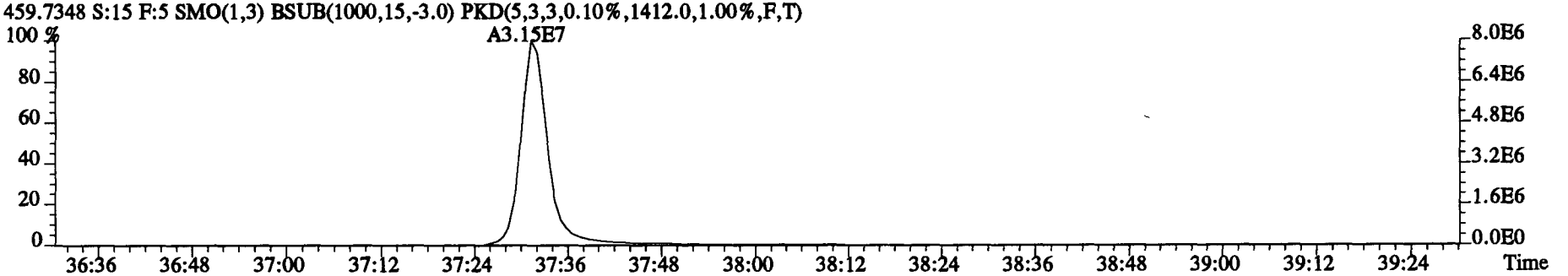


File:15DE109D5 #1-243 Acq:15-DEC-2010 20:05:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1215A :CS-3 10DXN505 Exp:DIOXINRES

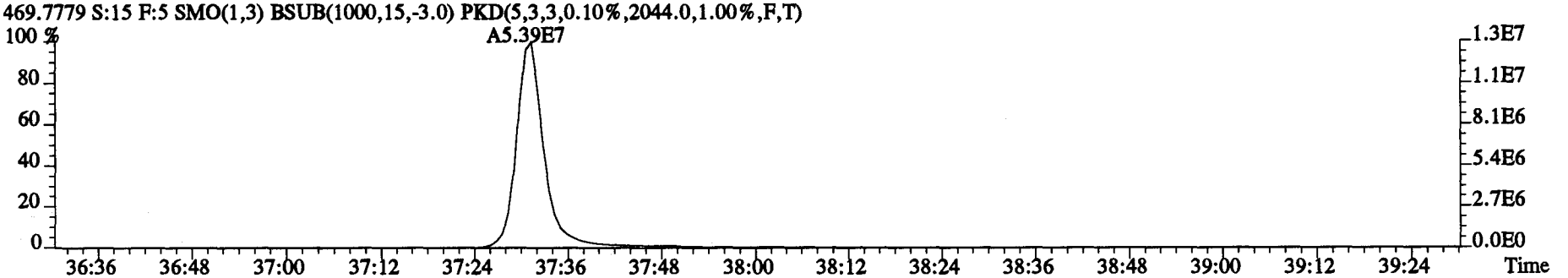
457.7377 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3732.0,1.00%,F,T)



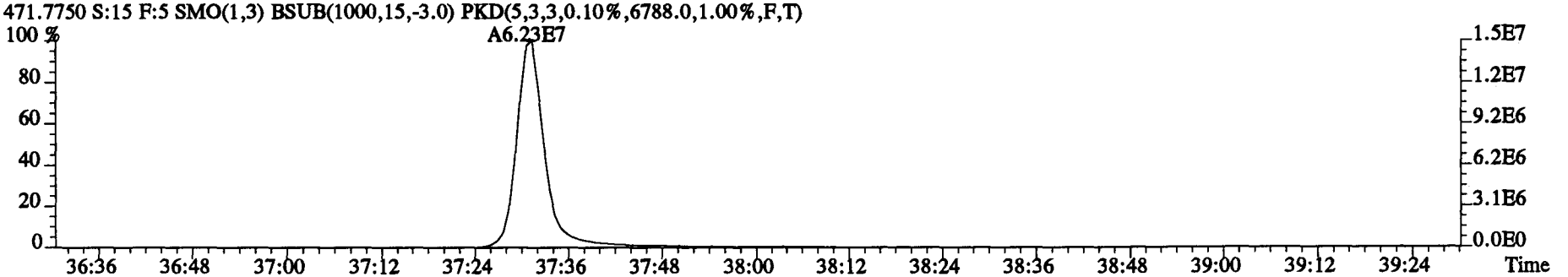
459.7348 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1412.0,1.00%,F,T)



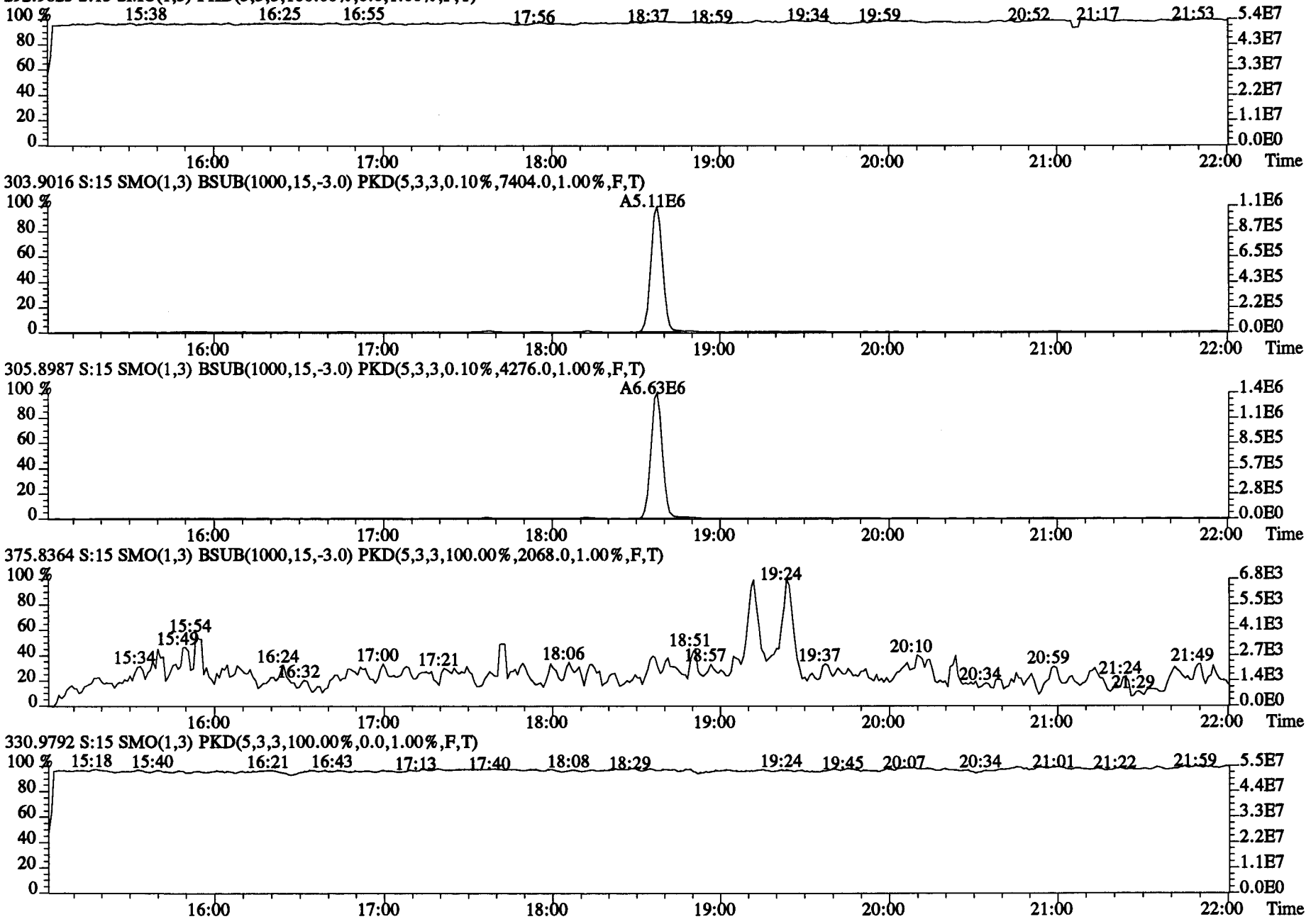
469.7779 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2044.0,1.00%,F,T)



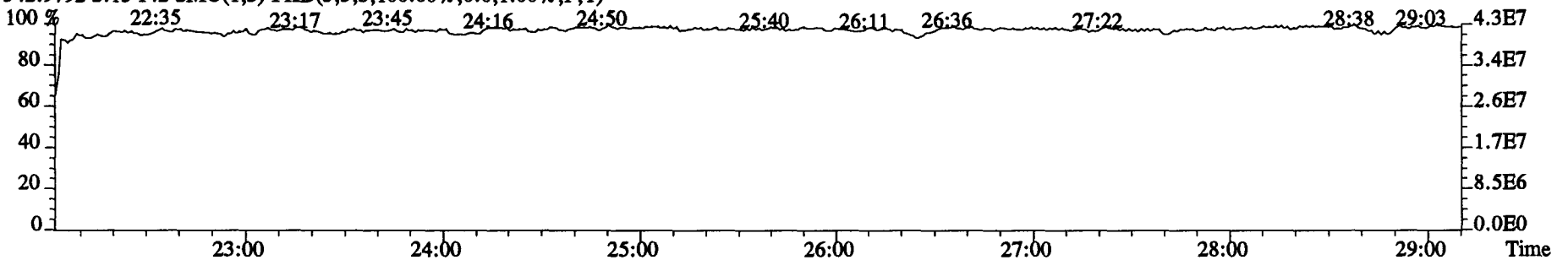
471.7750 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6788.0,1.00%,F,T)



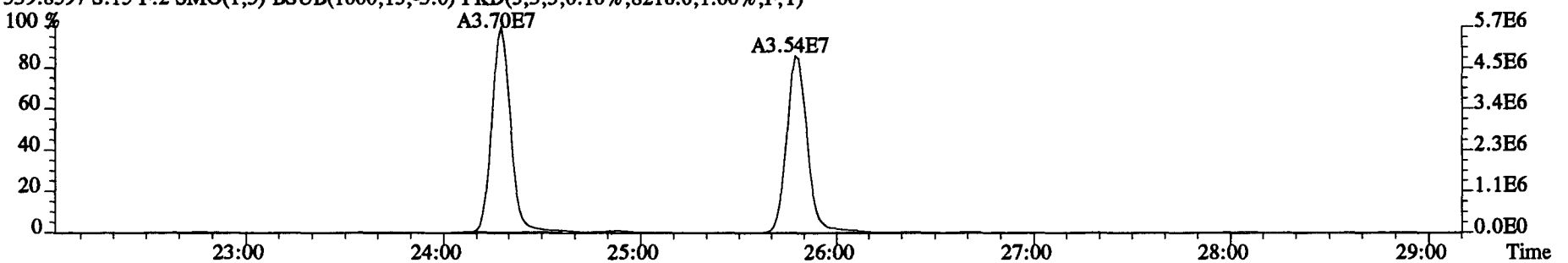
File:15DE109D5 #1-464 Acq:15-DEC-2010 20:05:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1215A :CS-3 10DXN505 Exp:DIOXINRES



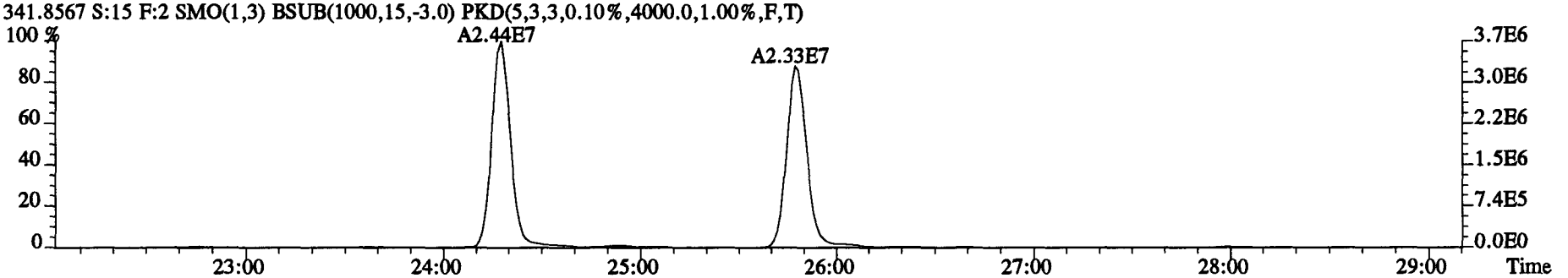
File:15DE109D5 #1-459 Acq:15-DEC-2010 20:05:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1215A :CS-3 10DXN505 Exp:DIOXINRES
342.9792 S:15 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



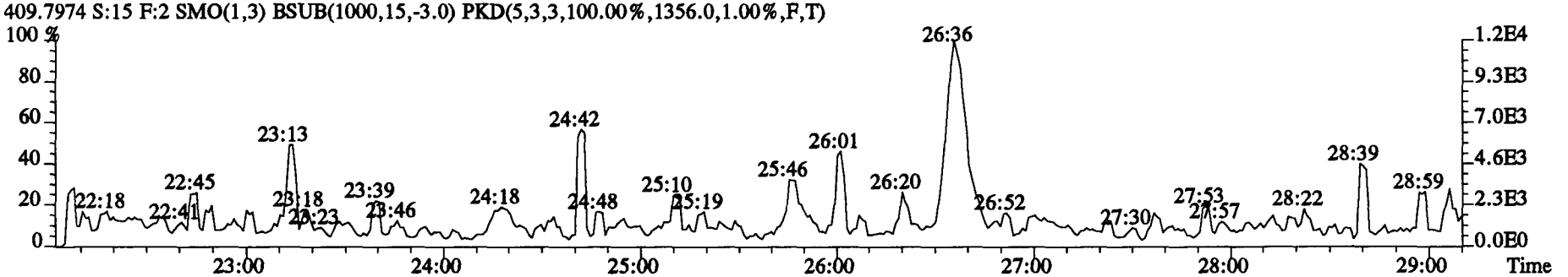
339.8597 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8216.0,1.00%,F,T)



341.8567 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4000.0,1.00%,F,T)

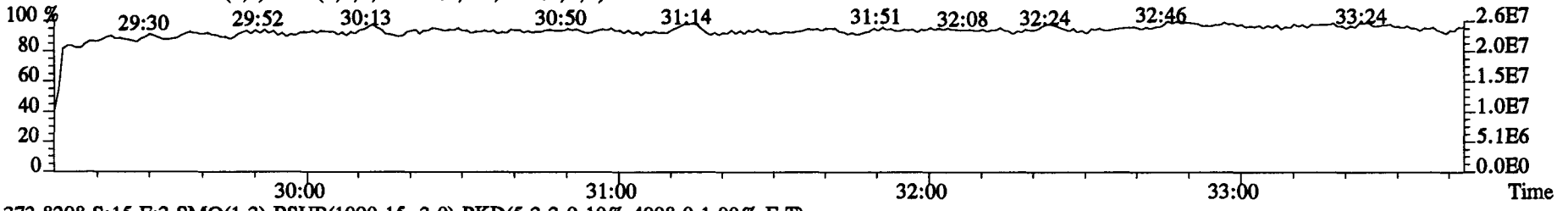


409.7974 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1356.0,1.00%,F,T)

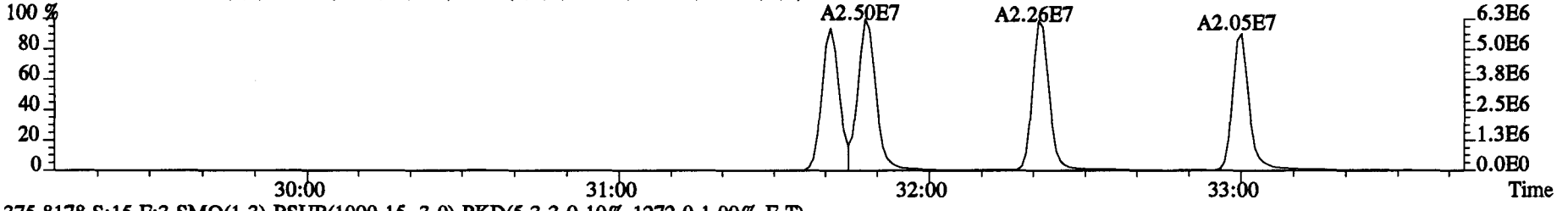


File:15DE109D5 #1-326 Acq:15-DEC-2010 20:05:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1215A :CS-3 10DXN505 Exp:DIOXINRES

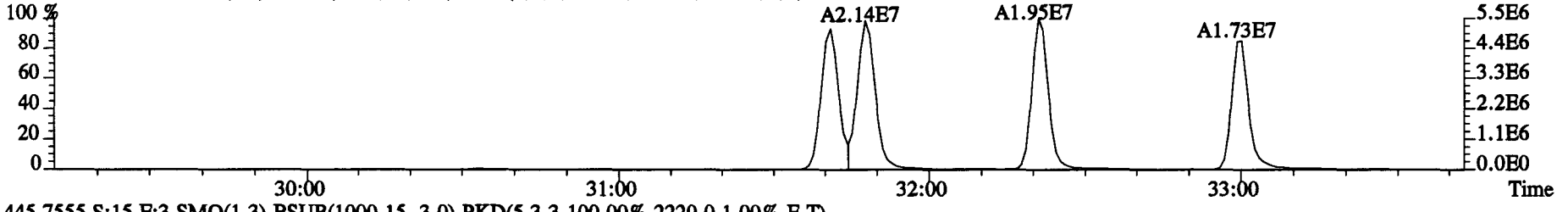
392.9760 S:15 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



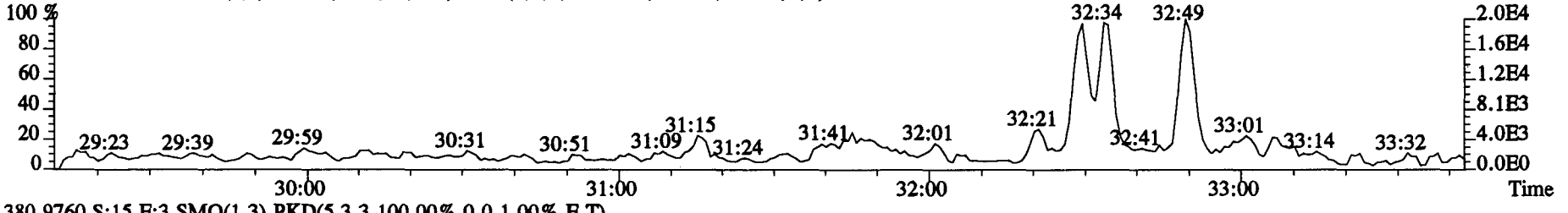
373.8208 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4008.0,1.00%,F,T)



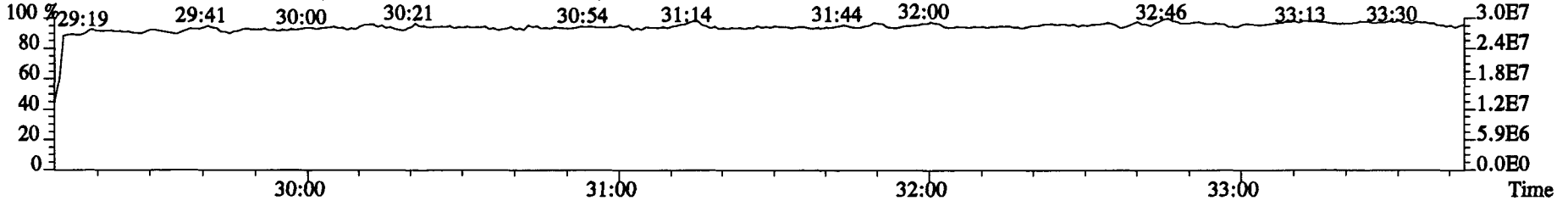
375.8178 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1272.0,1.00%,F,T)



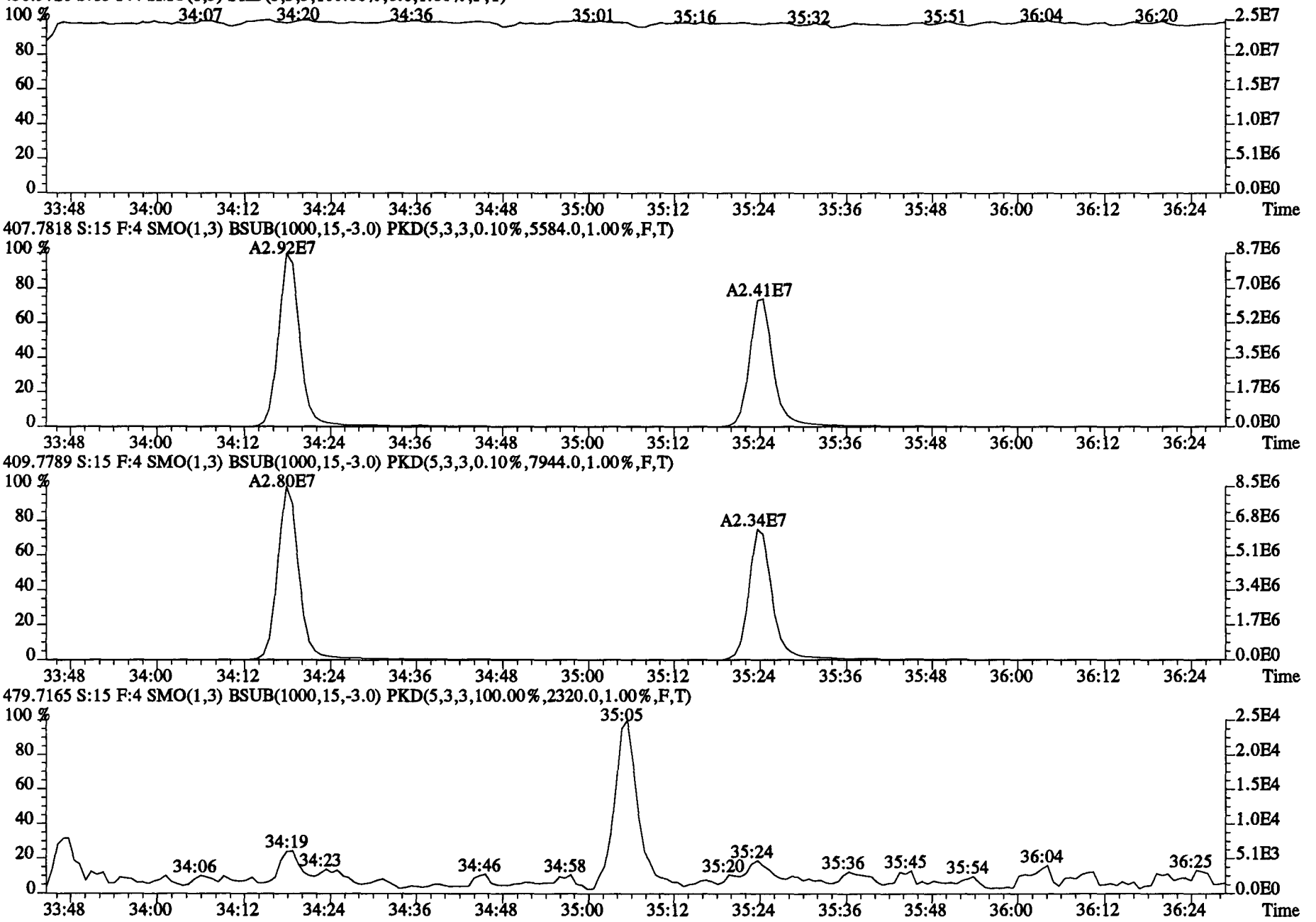
445.7555 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2220.0,1.00%,F,T)



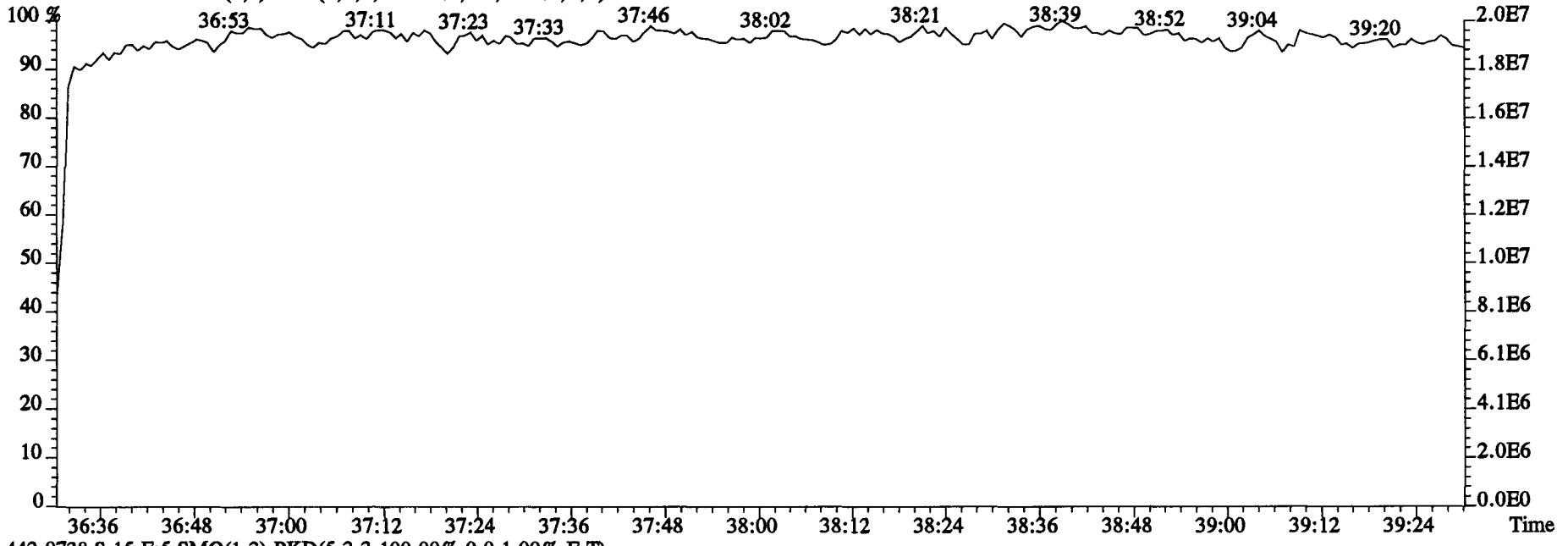
380.9760 S:15 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



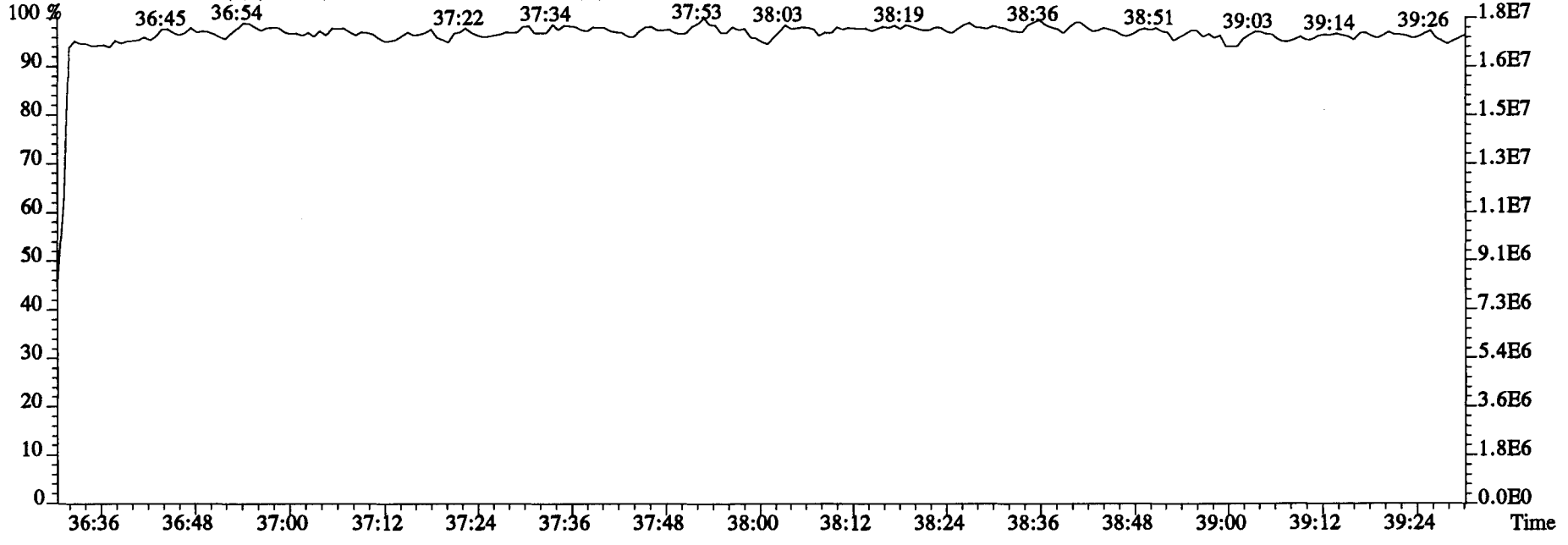
File:15DE109D5 #1-208 Acq:15-DEC-2010 20:05:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1215A :CS-3 10DXN505 Exp:DIOXINRES



File:15DE109D5 #1-243 Acq:15-DEC-2010 20:05:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1215A :CS-3 10DXN505 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
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Test America – West Sacramento

Daily Calibration Checklist
Dioxin Methods

Method ID T09 (2,3,7,8-TCDF conf. only) **Associated ICAL** DB225A1R 121410502

Column ID DB225 **Instrument ID** 5D2

STD ID ST1216, ST1216A **STD Solution** C63 10DXM505

Analyzed by KSS **Date Analyzed** 12-16-10

Std. Pkg. By KSS **Date Std. Pkg. Assembled** 12-17-10

Std. Pkg. Reviewed By NK **Date Std. Pkg. Reviewed** 12-17-10

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 ending CCV 30%D < ST1216A < 35%D (13C-2,3,7,8-TCDF @ +30.6%D) see NCM # 07-0118215
Ave RRF = 2.425

* **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.

Stephens, Kyle

To: Wolf, Mary
Subject: NCM Notification - Observation - 07-0118215

07-0118215.ncm (3 KB)

CM Auto-Notification -- DO NOT REPLY

Affected Lots (Samples): A0L060413 (1,3); F0L070519 (1); G0L080561 (1,2,3); G0L110441 (11)
Affected Clients (PM): Geosyntec Consultants, Inc.. (KJK) Production Group: Volatiles
Type: Dioxin observation
Desc: 8290: 30% < End Standard < 35% (Internal Std)

COMMENTS:
Entered by STEPHENSK on 12/17/2010, 09:41 For Internal Use Only.
The bracketing continuing calibration standard listed below has an analyte with a percent difference value that is between the method recommended criteria of 30% to 35% deviation from the initial calibration curve. Per method guidelines, an average relative response factor (RRF = 2.425) is calculated from bracketing continuing calibration standards and is used to quantitate any the internal standard recovery in the associated samples. There is no impact on the data as a result of this anomaly.

[ST1216A on 5D2], [16-DEC-2010 @ 20:13:04 hrs.] [13C-2,3,7,8-TCDF @ +30.6%D]

CORRECTIVE ACTION:
None.

Clouseau

Run text: ST1216 File text: ST1216 :CS3 10DXN505
Run #6 Filename 16DE10A5D2 S: 2 I: 1
Acquired: 16-DEC-10 11:07:09 Processed: 16-DEC-10 16:41:56
Run: 16DE10A5D2 Analyte: DB225AIR Cal: DB225AIR1214105D2 Results: 16DE10A5D2DB225AIR

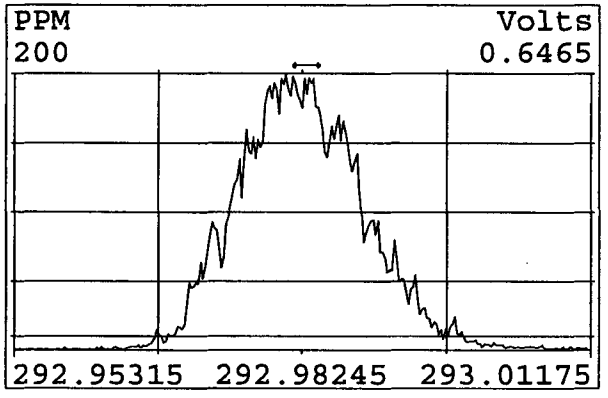
Name	Resp	RA		RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	101502300	0.84	y	15:16	-	100.00	-	n
13C-2,3,7,8-TCDF	224377800	0.79	y	16:28	2.21	100.00	9.3	n
2,3,7,8-TCDF	22507880	0.78	y	16:30	1.00	10.00	-0.9	n
13C-2,3,7,8-TCDD	96447000	0.84	y	14:57	0.95	100.00	-3.5	n
2,3,7,8-TCDD	15630910	0.83	y	14:58	1.62	10.00	3.7	n
37Cl-2,3,7,8-TCDD	17093060	1.00	y	14:58	1.77	10.00	-0.1	n

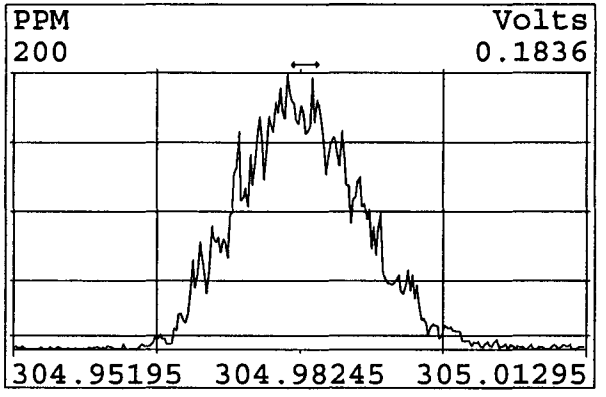
Run text: ST1216A File text: ST1216A :CS3 10DXN505
Run #9 Filename 16DE10A5D2 S: 17 I: 1
Acquired: 16-DEC-10 20:13:04 Processed: 17-DEC-10 08:31:16
Run: 16DE10A5D2 Analyte: DB225AIR Cal: DB225AIR1214105D2 Results: 16DE10A5D2DB225AIR

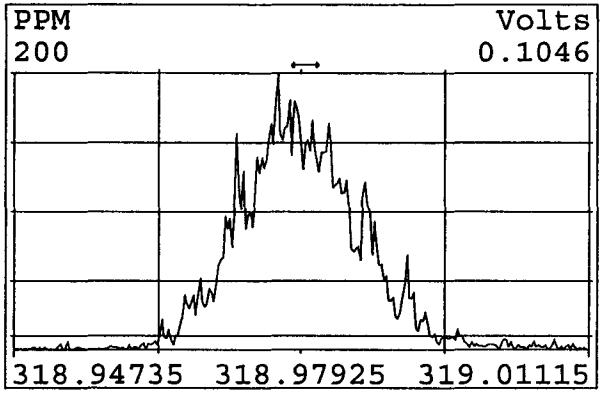
Name	Resp	RA		RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	50962500	0.87	y	15:13	-	100.00	-	n
13C-2,3,7,8-TCDF	134669372	0.79	y	16:26	2.64	100.00	30.6	n
2,3,7,8-TCDF	14983258	0.80	y	16:28	1.11	10.00	10.0	n
13C-2,3,7,8-TCDD	46672768	0.82	y	14:55	0.92	100.00	-7.0	n
2,3,7,8-TCDD	8867617	0.80	y	14:56	1.90	10.00	21.6	n
37Cl-2,3,7,8-TCDD	9577944	1.00	y	14:56	2.05	10.00	15.7	n

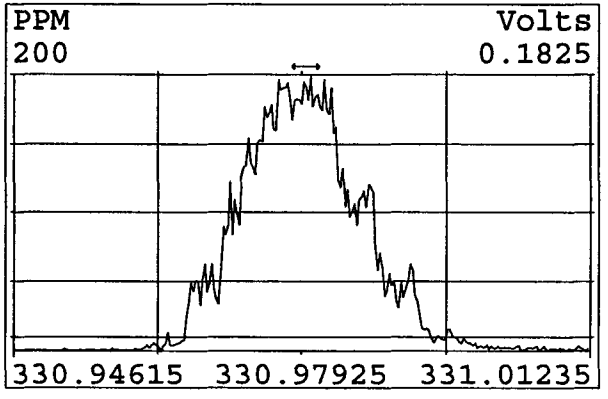
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
16DE10A5D2	1	CP1216	DB-225 CPSM 3732-11				1.0000	
16DE10A5D2	2	ST1216	CS3 10DXN505				1.0000	
16DE10A5D2	3	LOD/LOQ-MB	Q4 1613B/8290 MB 121410	40	1613B/8290-S	39	20.0000	g
16DE10A5D2	4	LOD/LOQ-LOD1	Q4 1613B/8290 LOD1	40	1613B/8290-S		20.0000	g
16DE10A5D2	5	LOD/LOQ-LOD2	Q4 1613B/8290 LOD2	40	1613B/8290-S		20.0000	g
16DE10A5D2	6	LOD/LOQ-LOQ	Q4 1613B/8290 LOQ	40	1613B/8290-S		20.0000	g
16DE10A5D2	7	MA8DT-1-AA	G0L110441-11	20	TO9/AIR	39	0.5000	SAM
16DE10A5D2	8	MA2PM-1-AA	G0L080561-1	20	8290/SOLID	37	10.0400	g
16DE10A5D2	9	MA2PQ-1-AA	G0L080561-2	20	8290/SOLID		10.7300	g
16DE10A5D2	10	MA2PR-1-AA	G0L080561-3	20	8290/SOLID		10.9200	g
16DE10A5D2	11	MAWW0-1-AT	A0L060413-1	20	8290/SOLID	34	10.2000	g
16DE10A5D2	12	MAWW0-1-AUS	A0L060413-1S	20	8290/SOLID		10.4500	g
16DE10A5D2	13	MAWW0-1-AVD	A0L060413-1D	20	8290/SOLID		10.1500	g
16DE10A5D2	14	MAWXC-1-AK	A0L060413-3	20	8290/SOLID		9.6100	g
16DE10A5D2	15	MA04G-1-AF	F0L070519-1	20	8290/SOLID	37	10.1650	g
16DE10A5D2	16	SB1216	Solvent Blank C-14				1.0000	
16DE10A5D2	17	ST1216A	CS3 10DXN505				1.0000	
16DE10A5D2	18						1.0000	
16DE10A5D2	19						1.0000	
16DE10A5D2	20						1.0000	
16DE10A5D2	21						1.0000	
16DE10A5D2	22		KSS 12-16-10				1.0000	
16DE10A5D2	23						1.0000	

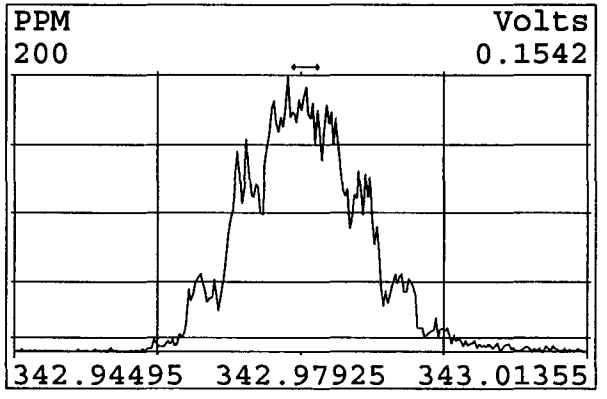
Peak Locate Examination:16-DEC-2010:10:29 File:16DE10A5D2
Experiment:DB225RES Function:1 Reference:PFK

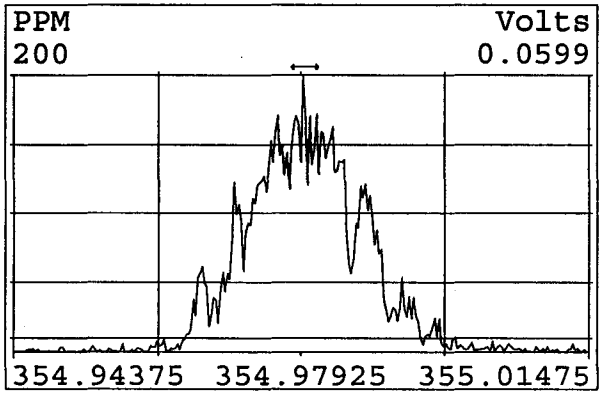


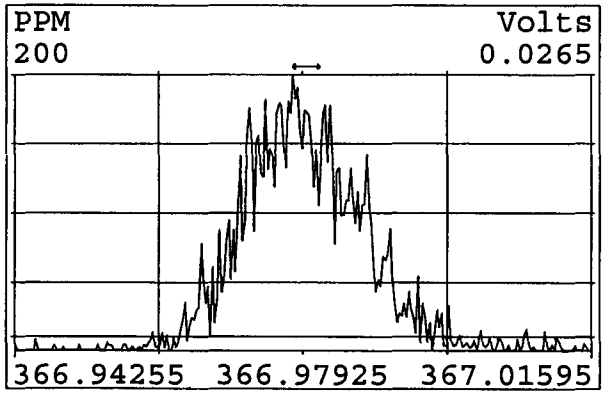


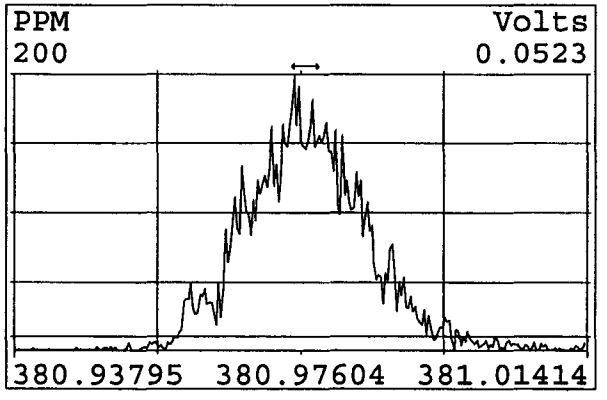




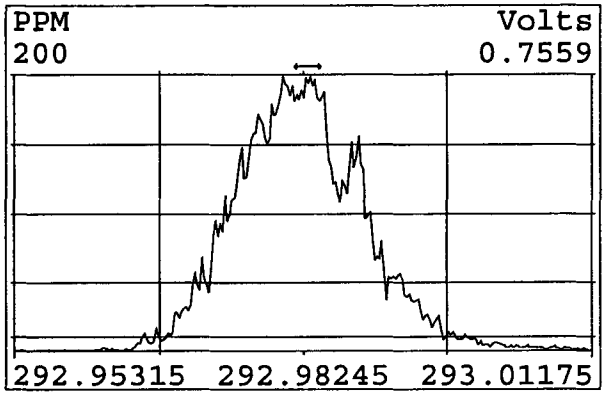


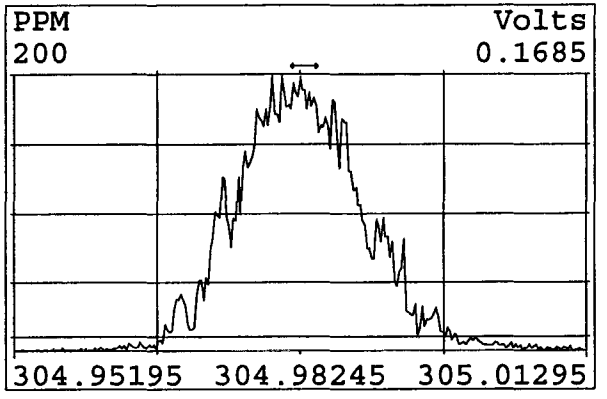


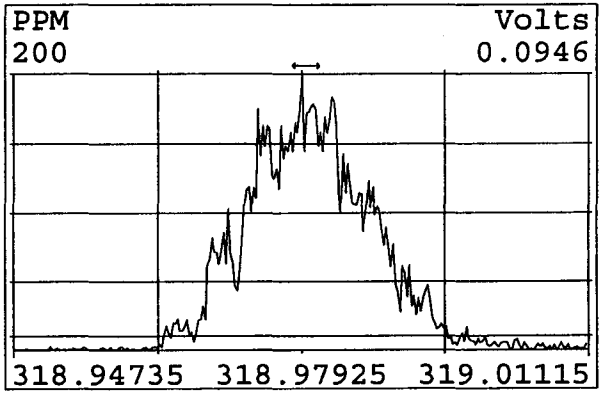


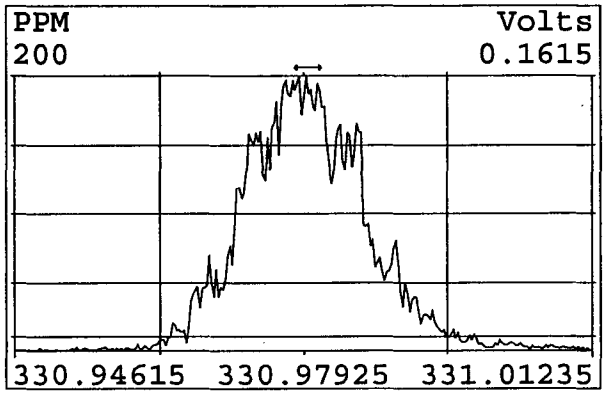


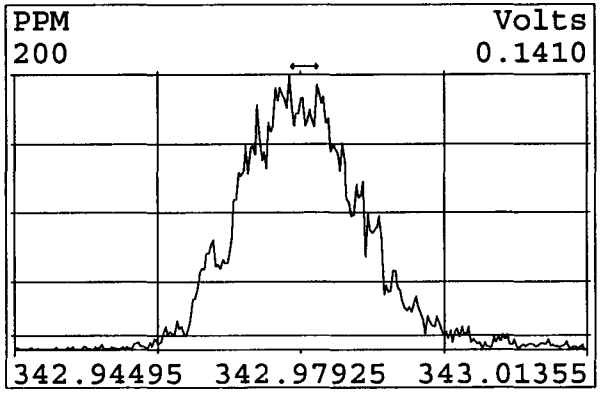
Peak Locate Examination:16-DEC-2010:21:09 File:RESCHK16DE10A5D2
Experiment:DB225RES Function:1 Reference:PFK

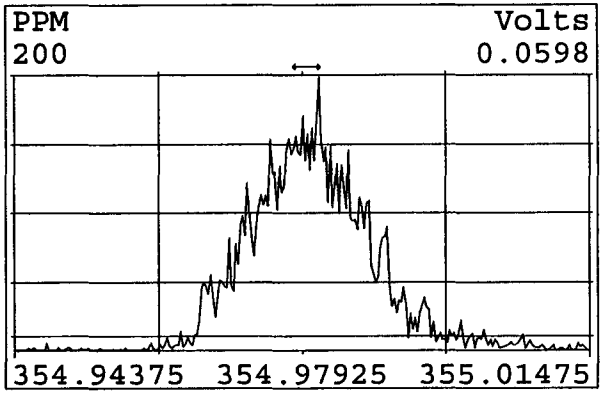


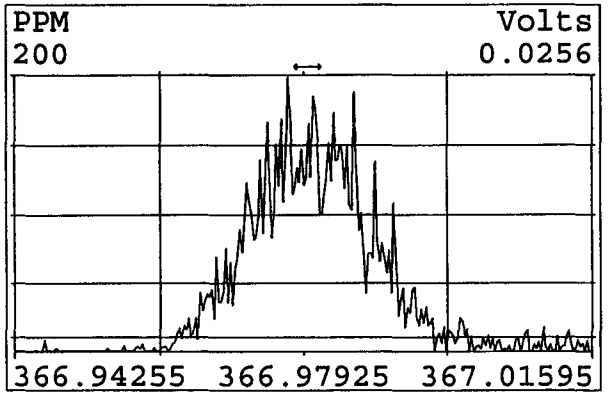


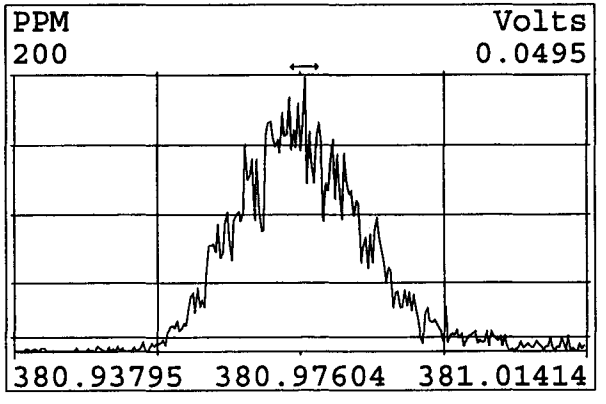




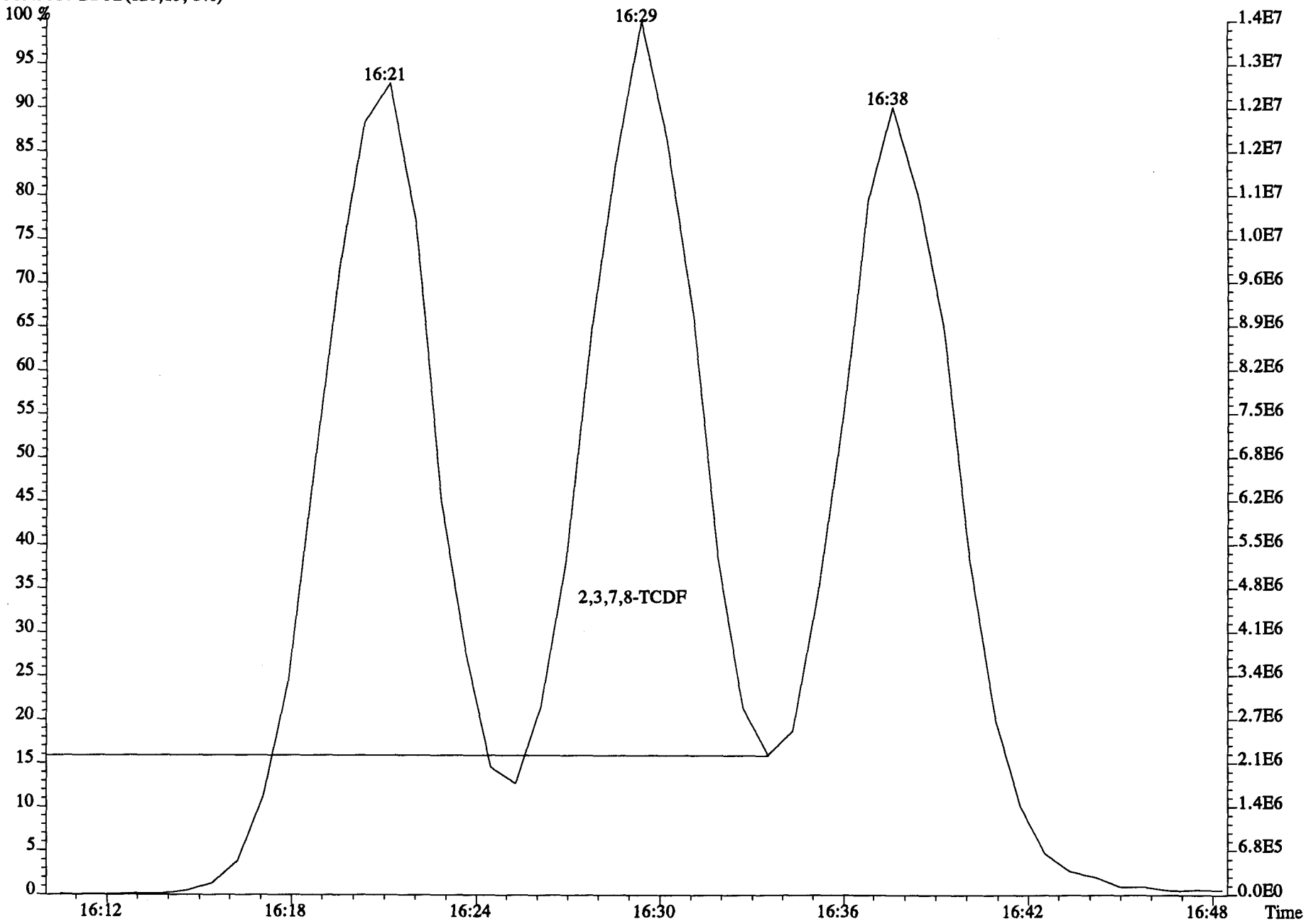








File:16DE10A5D2 #1-1242 Acq:16-DEC-2010 10:30:53 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP1216 :DB-225 CPSM 3732-11 Exp:DB225RES
303.9016 BSUB(128,15,-3.0)

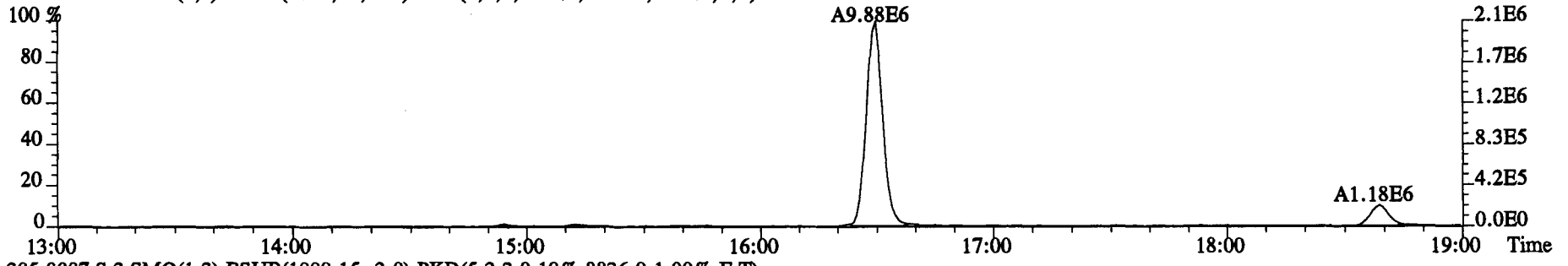


Run: 16DE10A5D2 Analyte: DB225AIR Cal: DB225AIR1214105D2

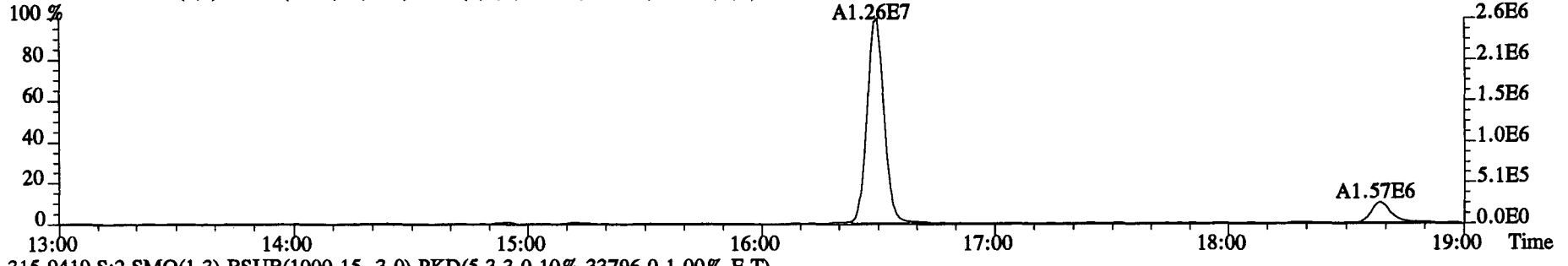
ST1214 :10DXN503 CS11214 KSS ST1214A :10DXN504 CS21214A ST1214B :10DXN505 CS31414B
ST1214C :10DXN506 CS41214C ST1214D :10DXN507 CS51214D

				14DE10B5D2	14DE10B5D2	14DE10B5D2	14DE10B5D2	14DE10B5D2
				S3	S4	S5	S6	S7
Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	2.023	0.106	5.26 %	1.92	2.07	2.18	2.00	1.94
2,3,7,8-TCDF	1.012	0.027	2.71 %	1.04	1.03	0.98	1.01	1.00
13C-2,3,7,8-TCDD	0.985	0.061	6.17 %	0.99	1.01	1.05	0.99	0.89
2,3,7,8-TCDD	1.562	0.050	3.20 %	1.59	1.61	1.54	1.59	1.48
37Cl-2,3,7,8-TCDD	1.774	0.040	2.28 %	1.76	1.84	1.76	1.79	1.73

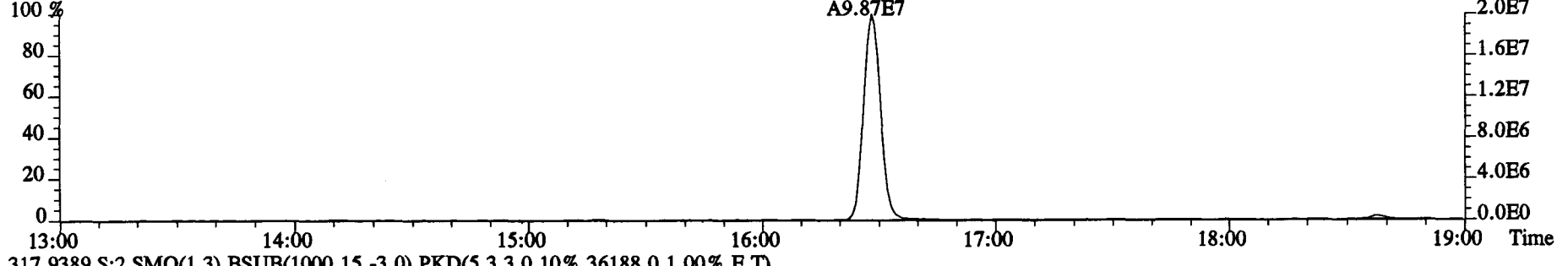
File:16DE10A5D2 #1-1242 Acq:16-DEC-2010 11:07:09 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST1216 :CS3 10DXN505 Exp:DB225RES
303.9016 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6656.0,1.00%,F,T)



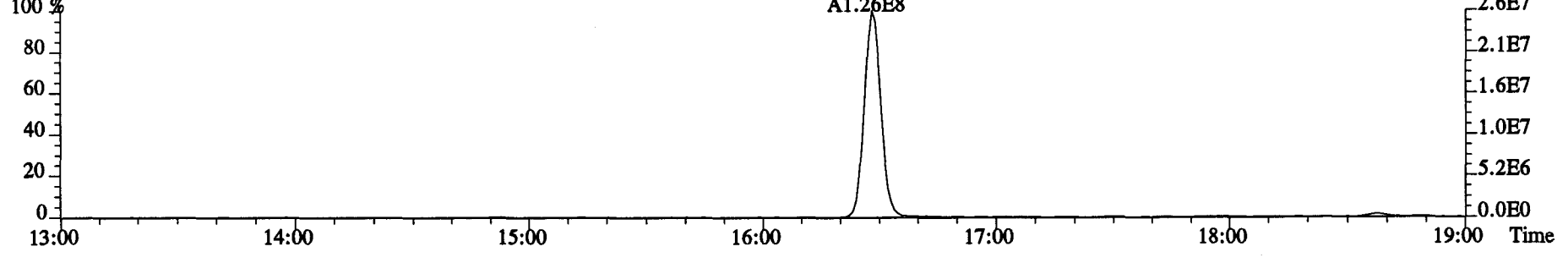
305.8987 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8836.0,1.00%,F,T)



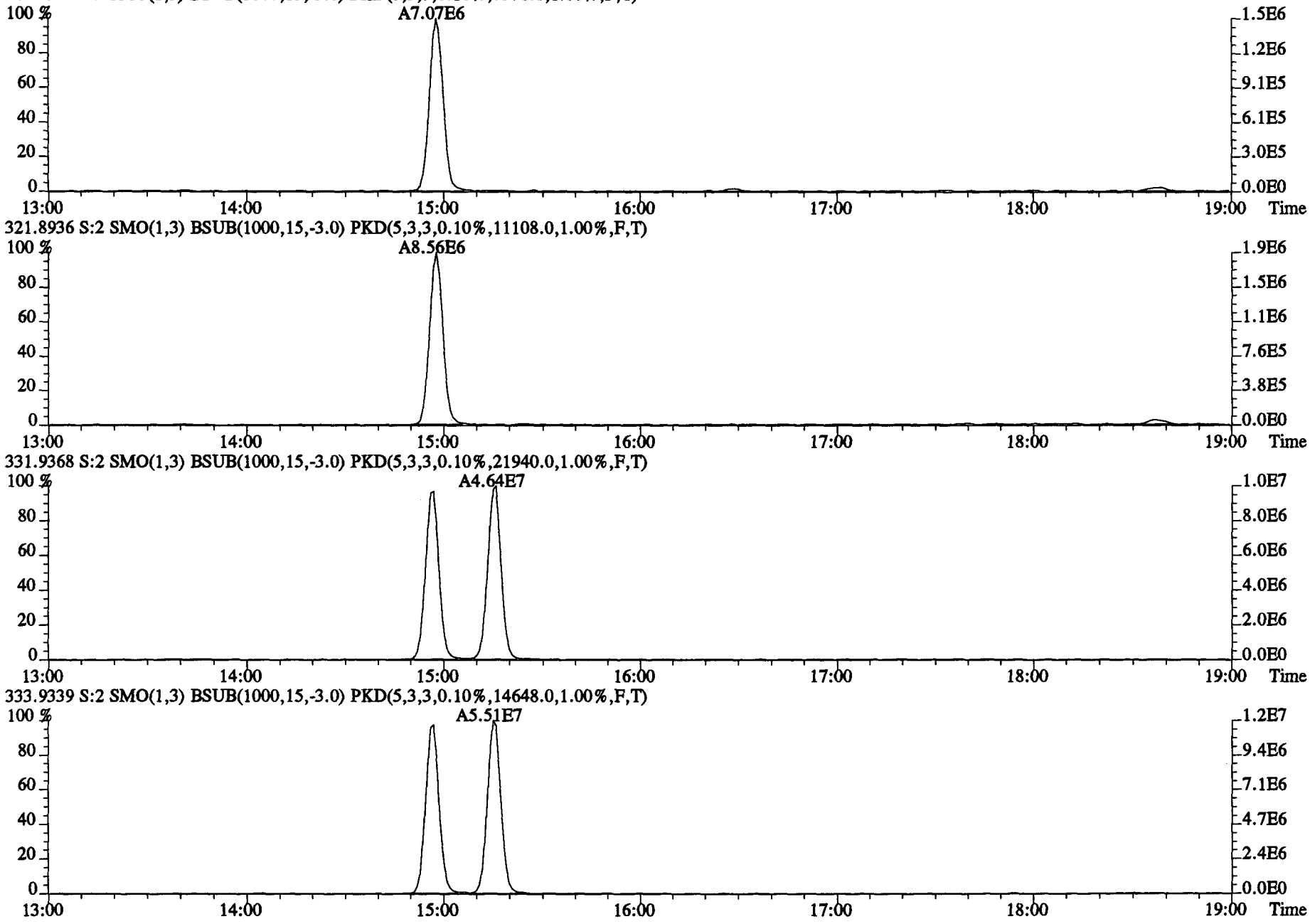
315.9419 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,33796.0,1.00%,F,T)



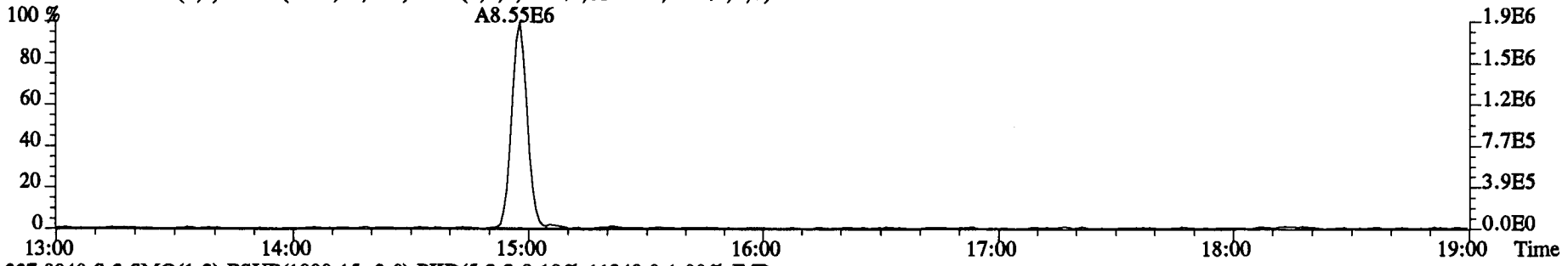
317.9389 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,36188.0,1.00%,F,T)



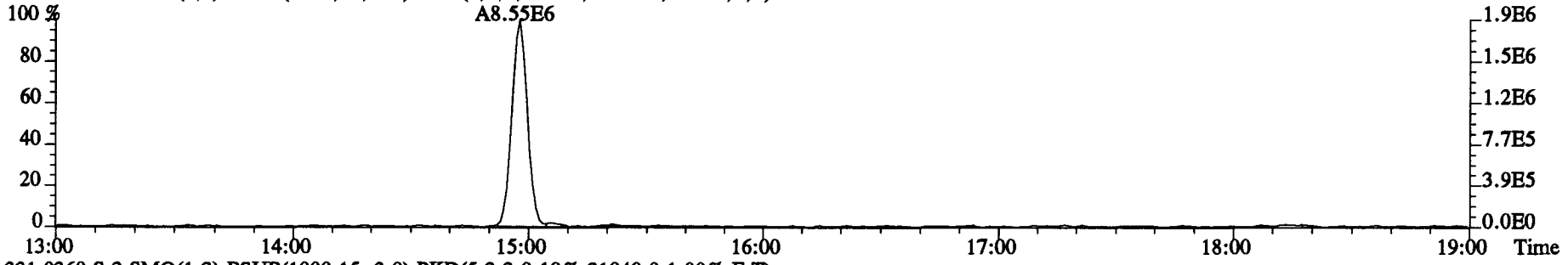
File:16DE10A5D2 #1-1242 Acq:16-DEC-2010 11:07:09 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST1216 :CS3 10DXN505 Exp:DB225RES



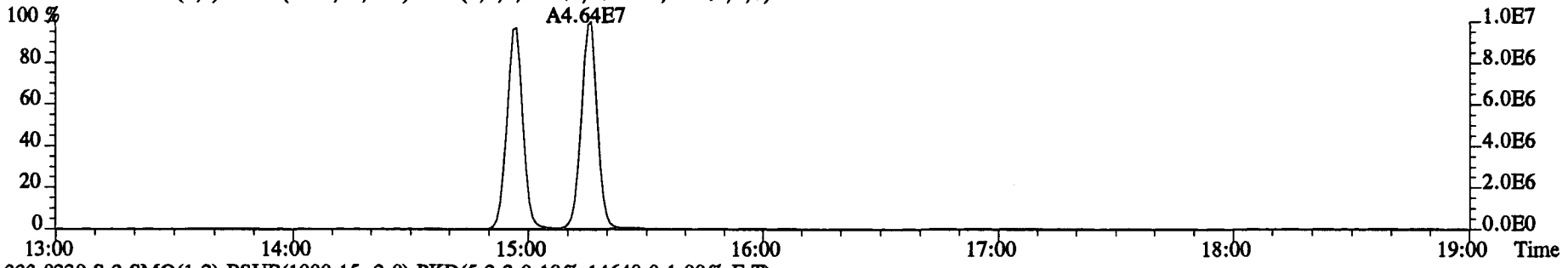
File:16DE10A5D2 #1-1242 Acq:16-DEC-2010 11:07:09 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST1216 :CS3 10DXN505 Exp:DB225RES
327.8840 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11348.0,1.00%,F,T)



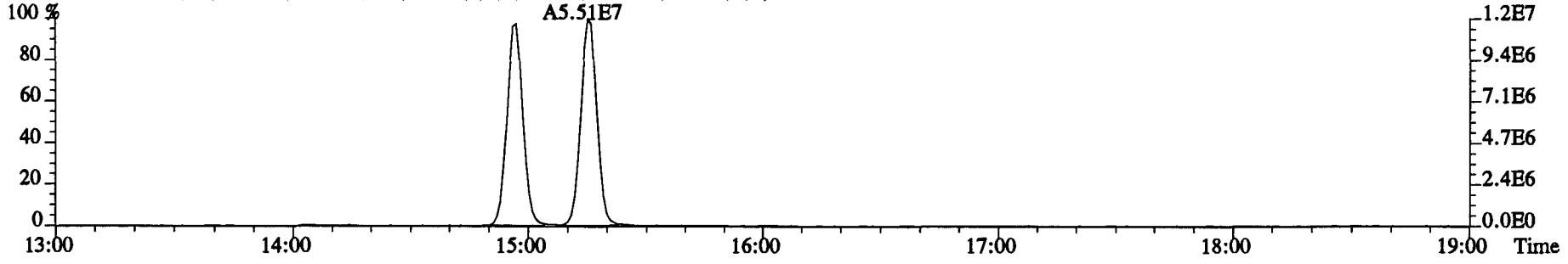
327.8840 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11348.0,1.00%,F,T)



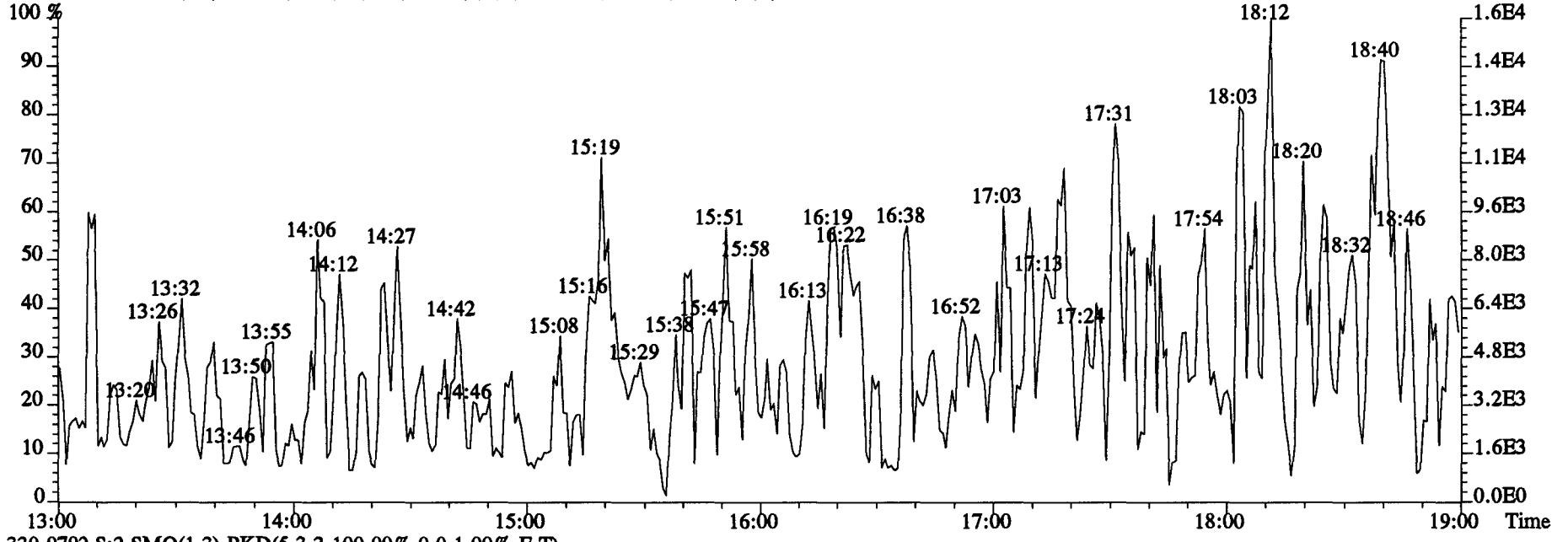
331.9368 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21940.0,1.00%,F,T)



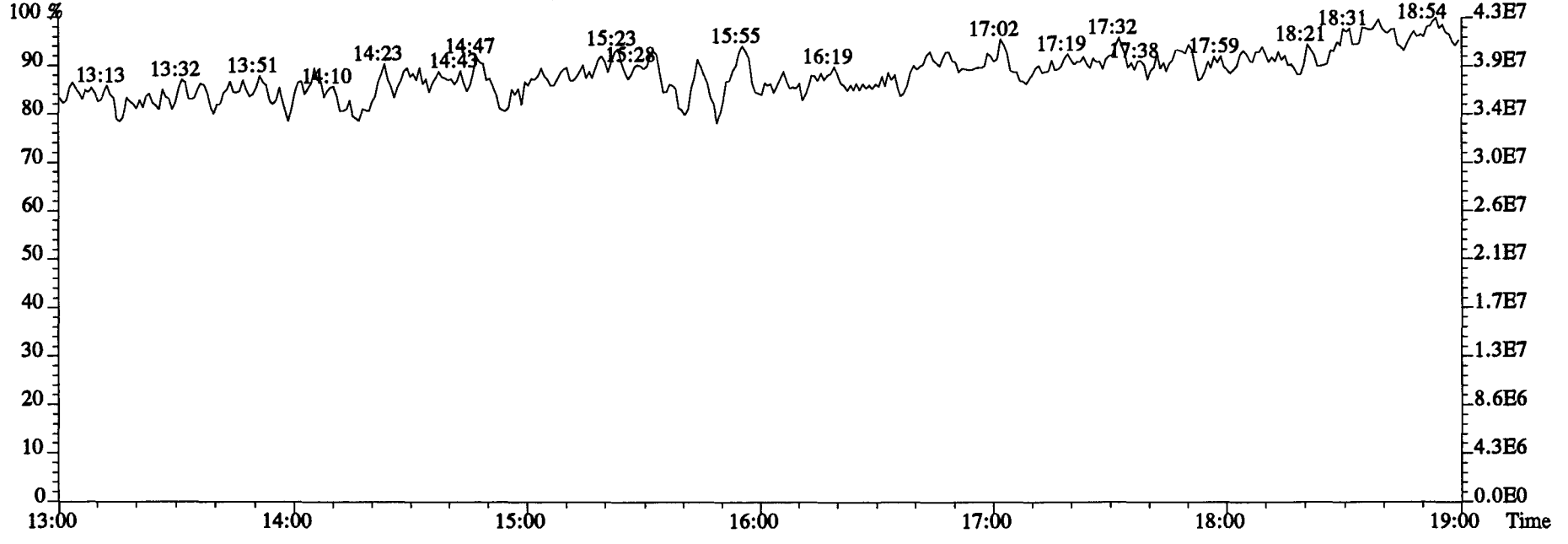
333.9339 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14648.0,1.00%,F,T)



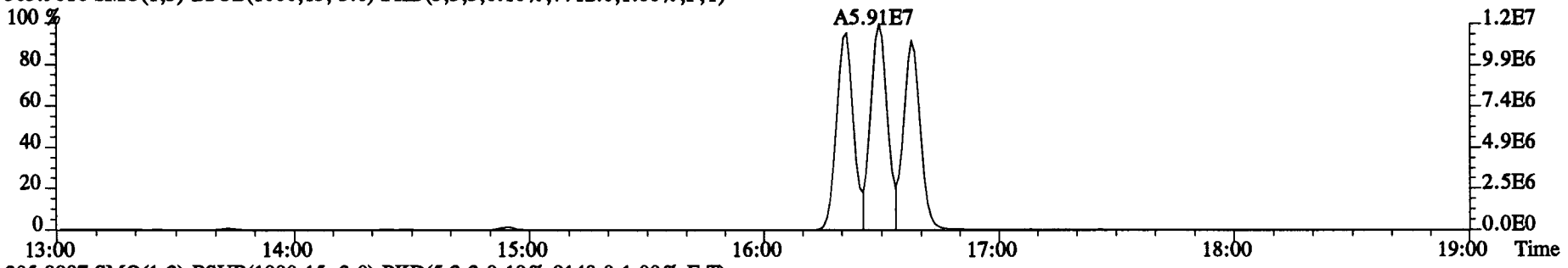
File:16DE10A5D2 #1-1242 Acq:16-DEC-2010 11:07:09 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST1216 :CS3 10DXN505 Exp:DB225RES
375.8364 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,4012.0,1.00%,F,T)



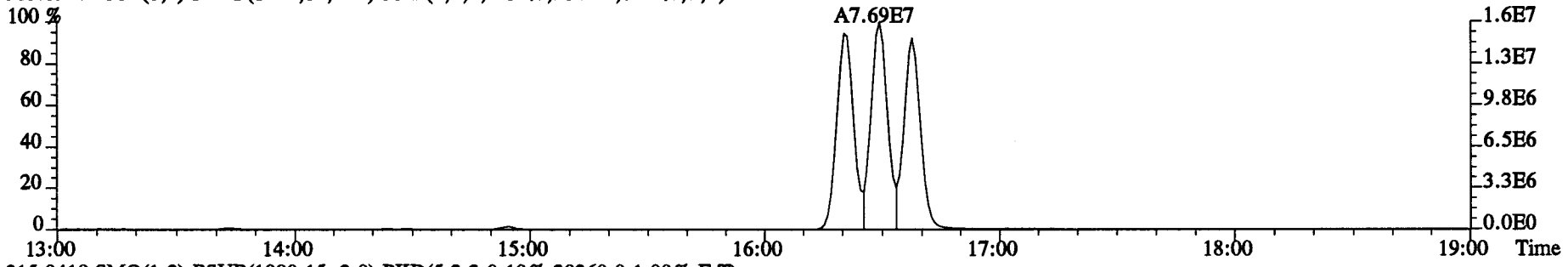
330.9792 S:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



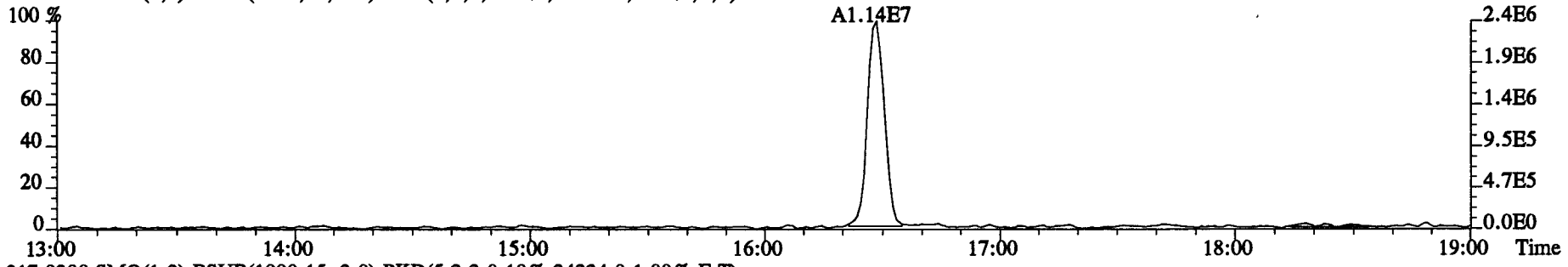
File:16DE10A5D2 #1-1242 Acq:16-DEC-2010 10:30:53 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP1216 :DB-225 CPSM 3732-11 Exp:DB225RES
303.9016 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7712.0,1.00%,F,T)



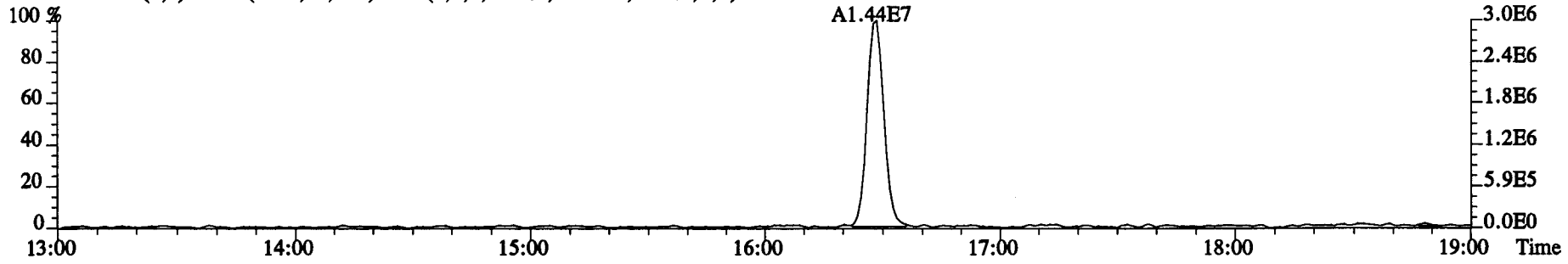
305.8987 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9148.0,1.00%,F,T)



315.9419 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,29360.0,1.00%,F,T)

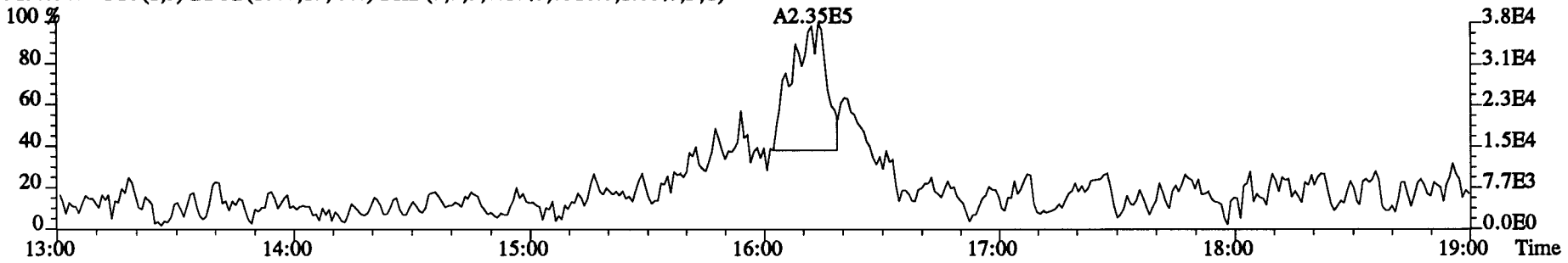


317.9389 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,34224.0,1.00%,F,T)

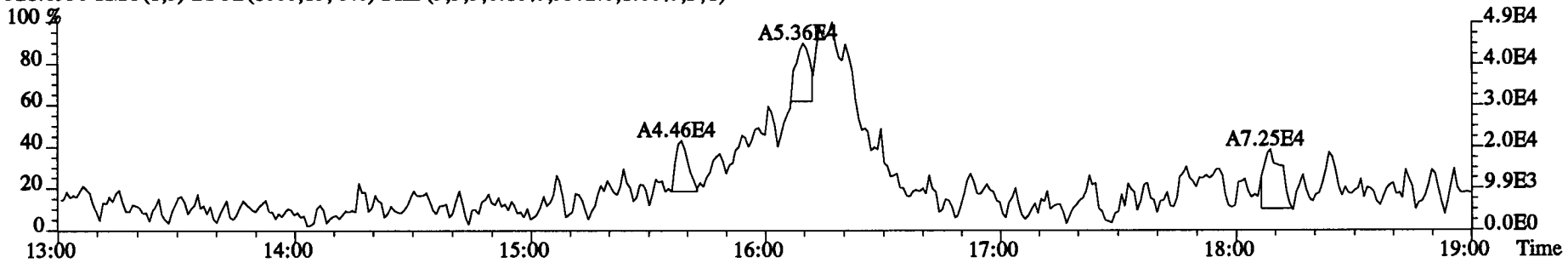


File:16DE10A5D2 #1-1242 Acq:16-DEC-2010 10:30:53 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP1216 :DB-225 CPSM 3732-11 Exp:DB225RES

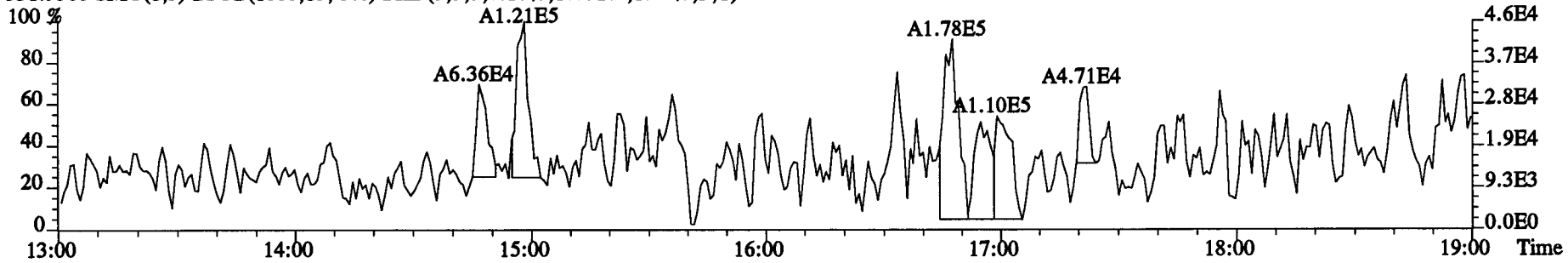
319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7516.0,1.00%,F,T)



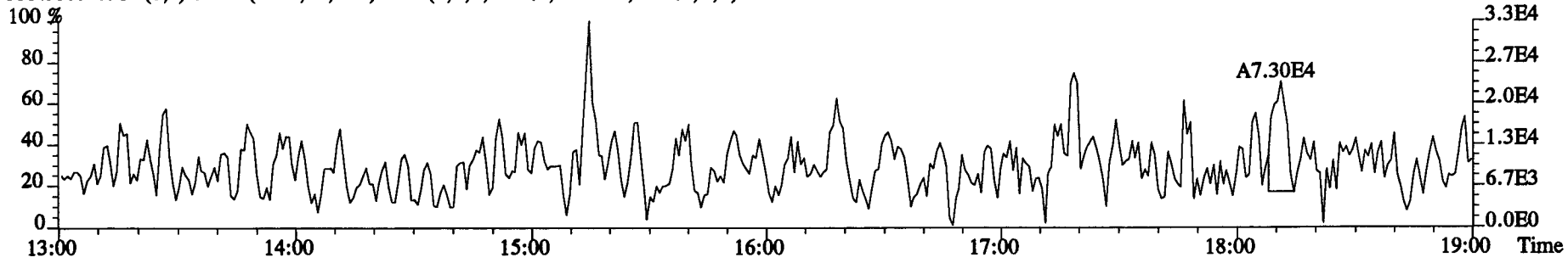
321.8936 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9372.0,1.00%,F,T)



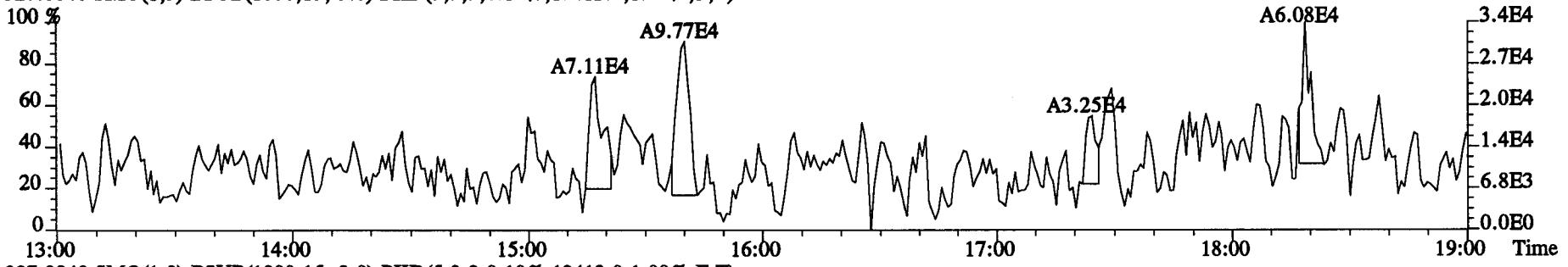
331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18392.0,1.00%,F,T)



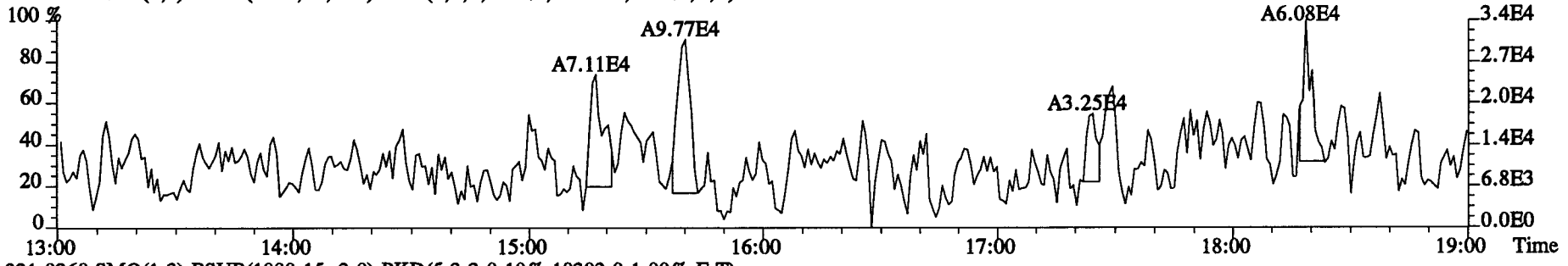
333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13020.0,1.00%,F,T)



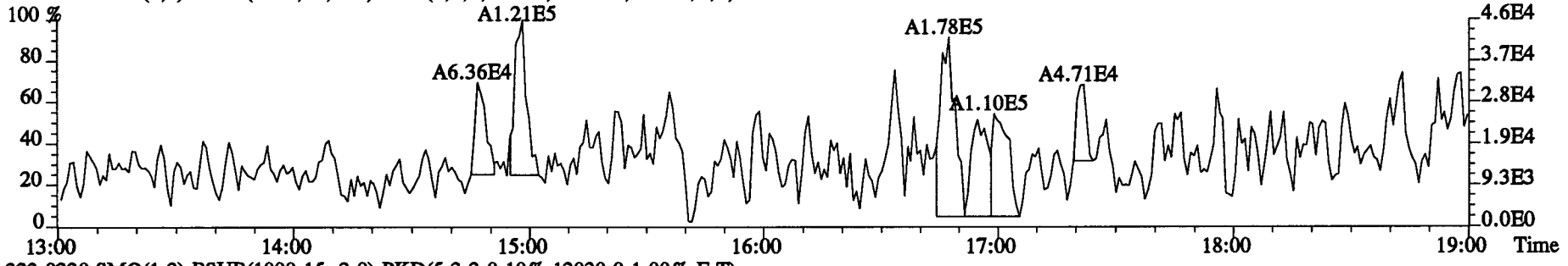
File:16DE10A5D2 #1-1242 Acq:16-DEC-2010 10:30:53 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP1216 :DB-225 CPSM 3732-11 Exp:DB225RES
327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13412.0,1.00%,F,T)



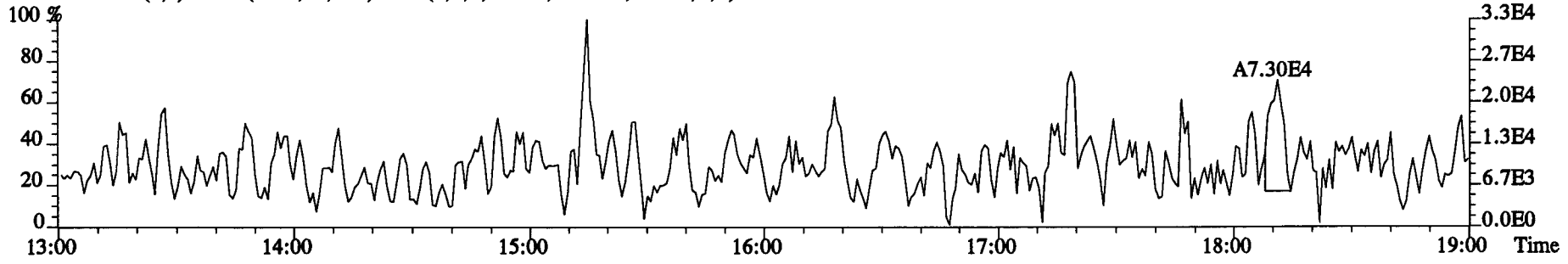
327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13412.0,1.00%,F,T)



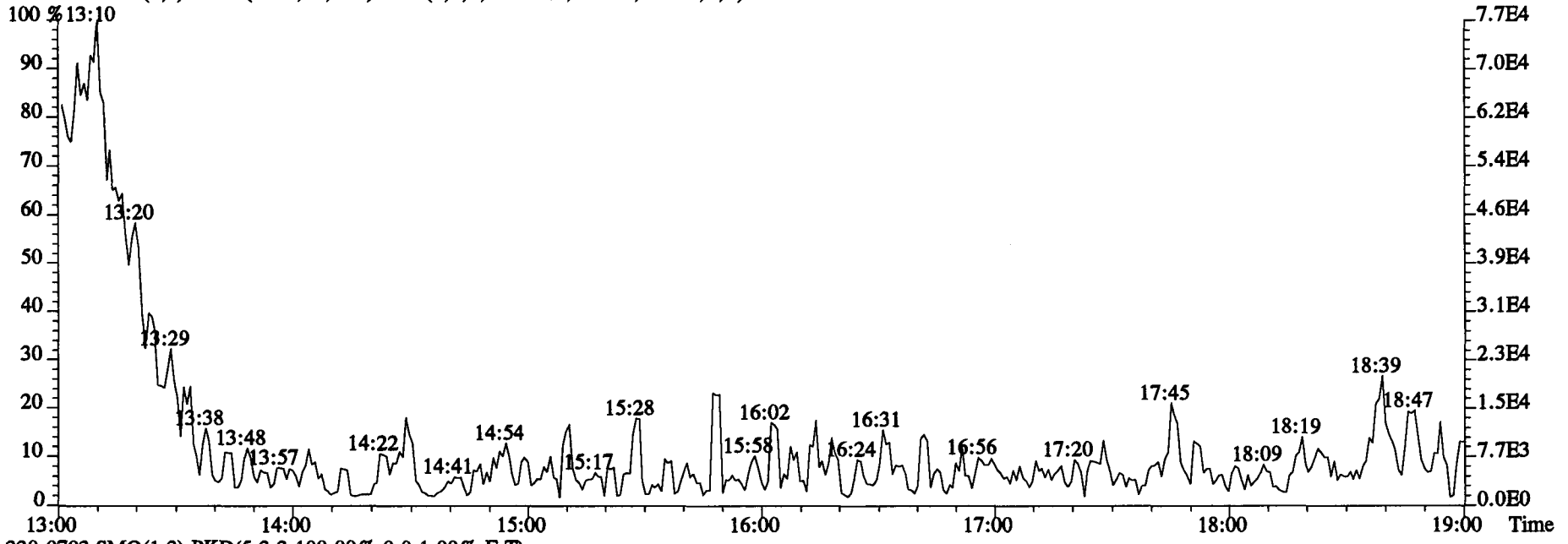
331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18392.0,1.00%,F,T)



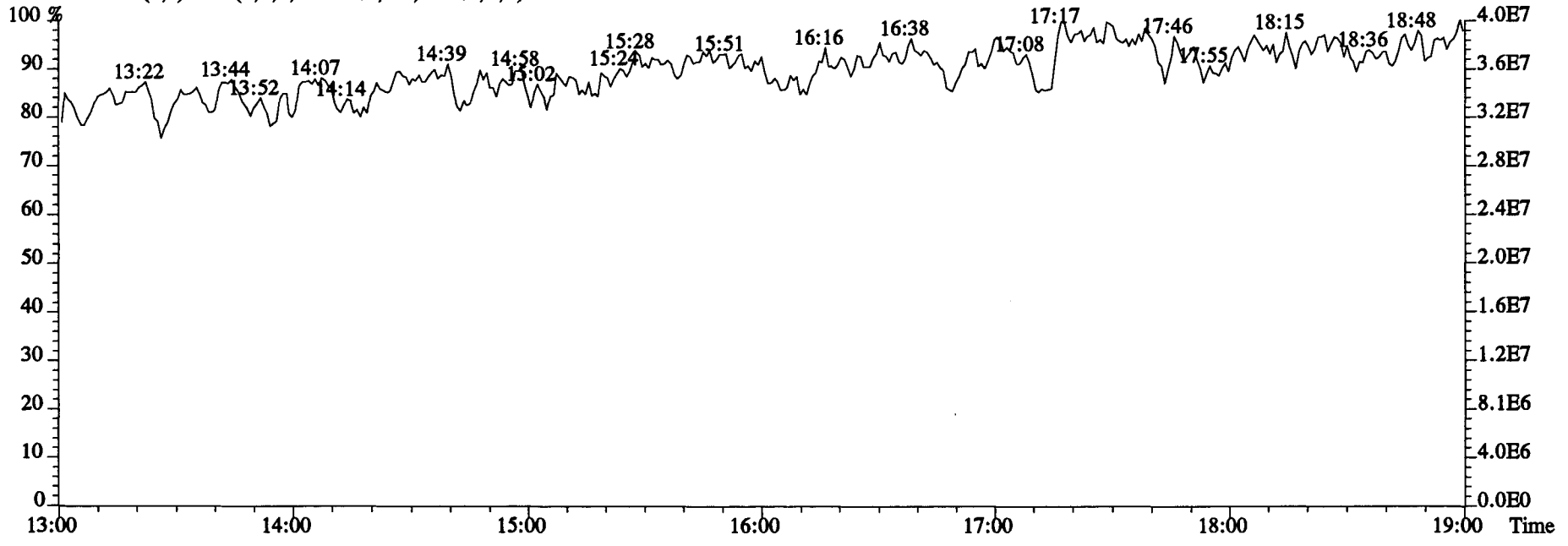
333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13020.0,1.00%,F,T)



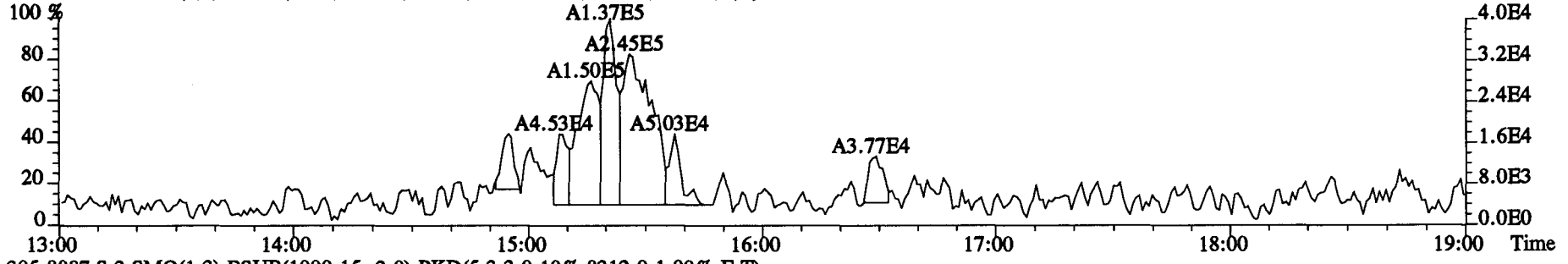
File:16DE10A5D2 #1-1242 Acq:16-DEC-2010 10:30:53 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP1216 :DB-225 CPSM 3732-11 Exp:DB225RES
375.8364 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,6376.0,1.00%,F,T)



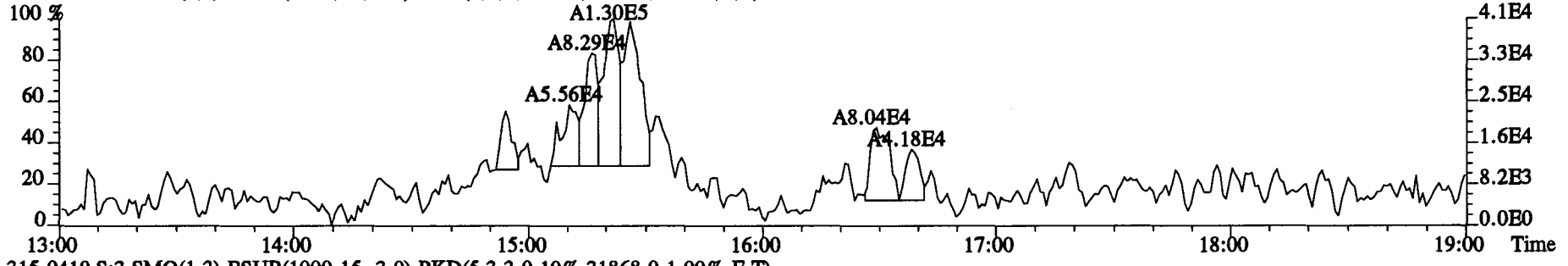
330.9792 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



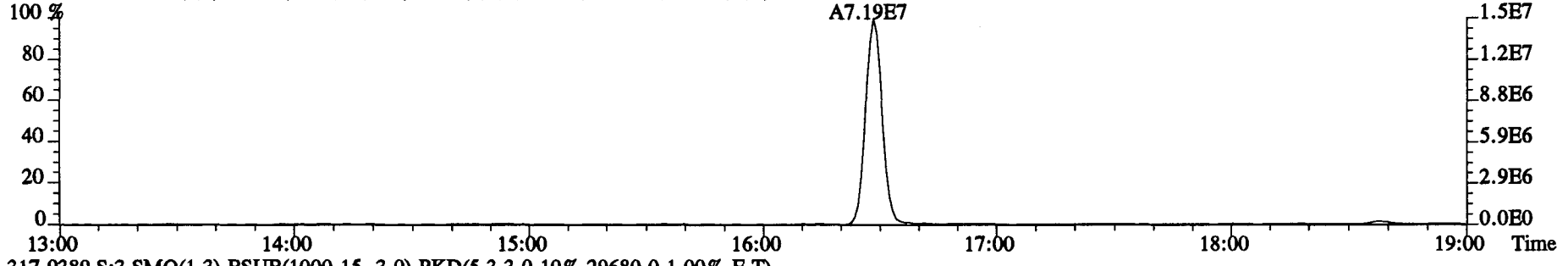
File:16DE10A5D2 #1-1242 Acq:16-DEC-2010 11:43:31 GC EI+ Voltage SIR 70SE
Sample#3 Text:LOD/LOQ-MB :Q4 1613B/8290 MB 121410 Exp:DB225RES
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6196.0,1.00%,F,T)



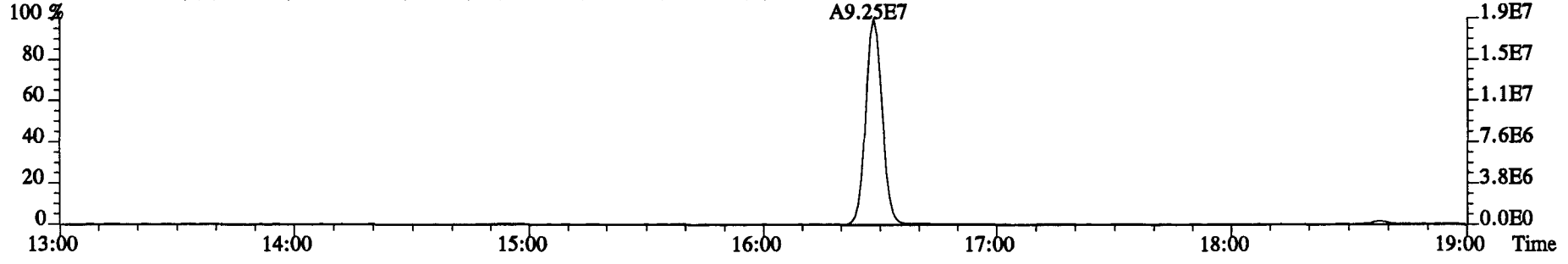
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8312.0,1.00%,F,T)



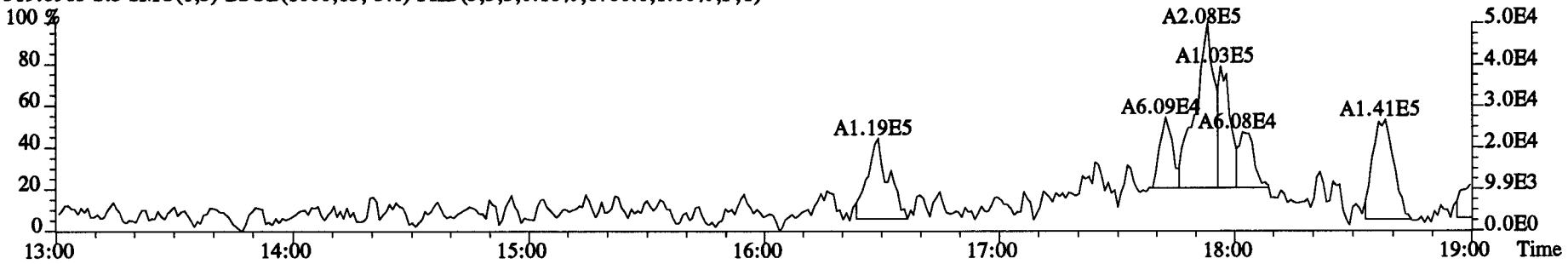
315.9419 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,31868.0,1.00%,F,T)



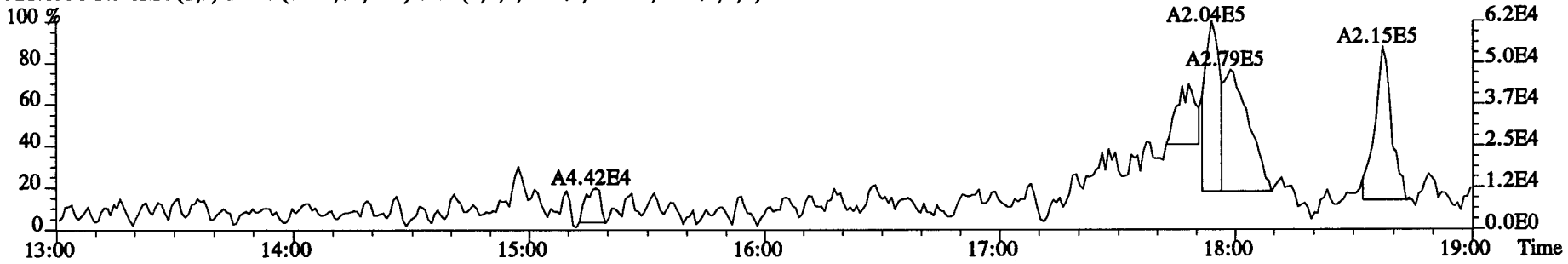
317.9389 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,29680.0,1.00%,F,T)



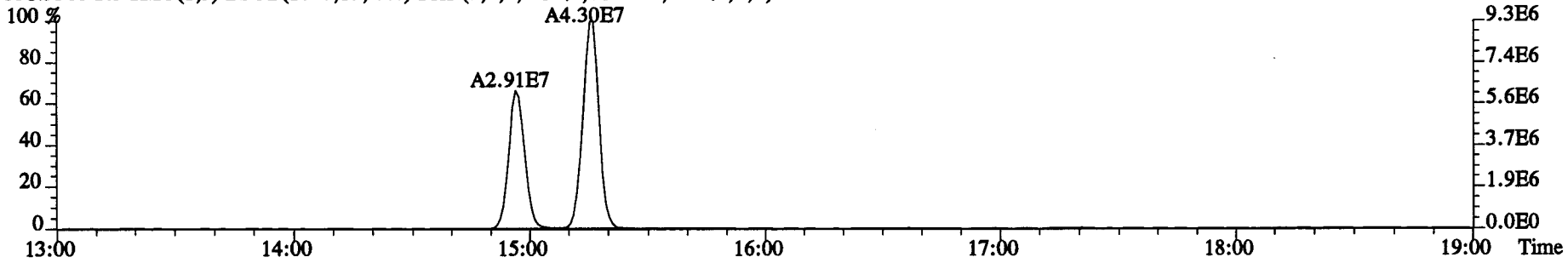
File:16DE10A5D2 #1-1242 Acq:16-DEC-2010 11:43:31 GC EI+ Voltage SIR 70SE
Sample#3 Text:LOD/LOQ-MB :Q4 1613B/8290 MB 121410 Exp:DB225RES
319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6700.0,1.00%,F,T)



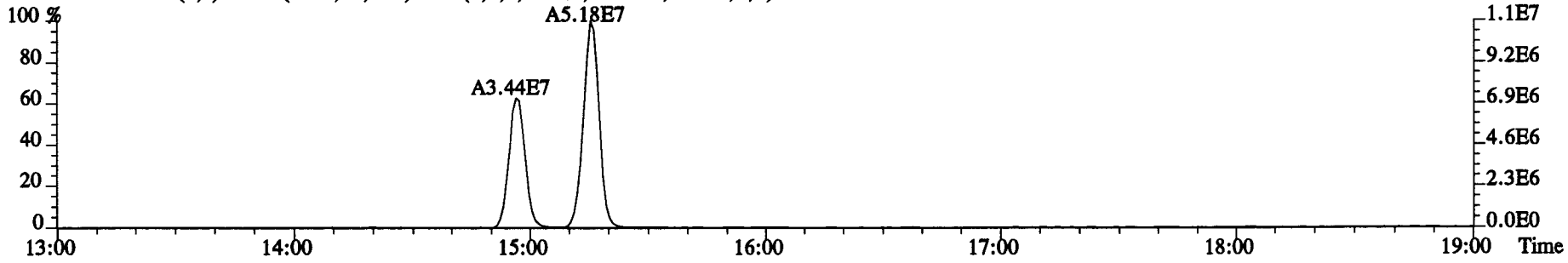
321.8936 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9168.0,1.00%,F,T)



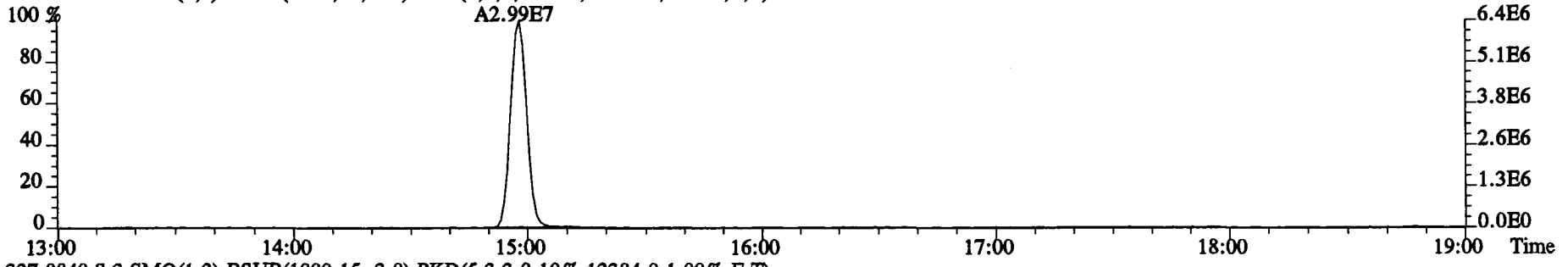
331.9368 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21532.0,1.00%,F,T)



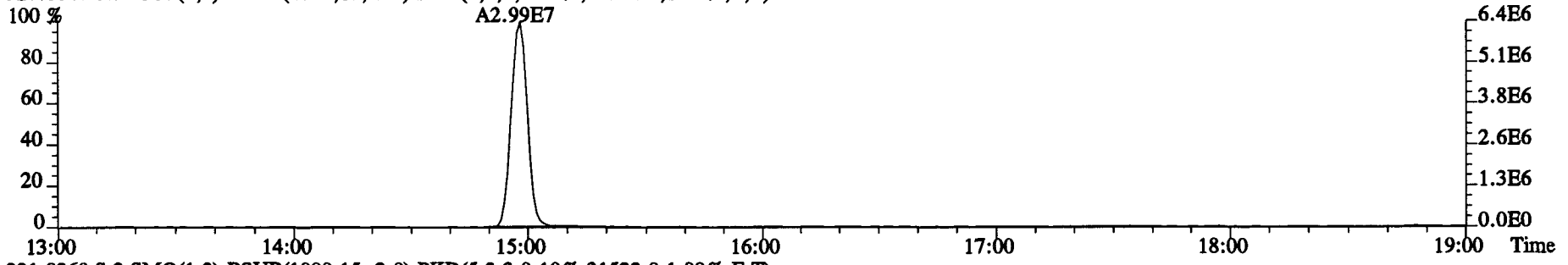
333.9339 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13780.0,1.00%,F,T)



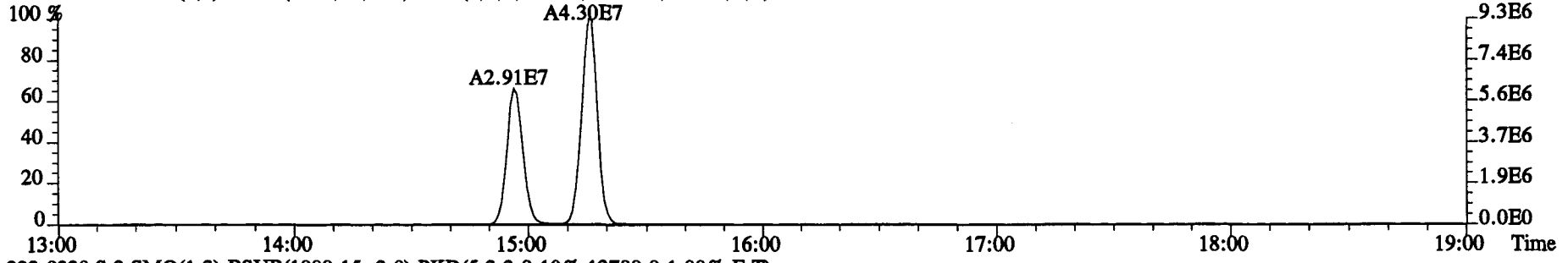
File:16DE10A5D2 #1-1242 Acq:16-DEC-2010 11:43:31 GC EI+ Voltage SIR 70SE
Sample#3 Text:LOD/LOQ-MB :Q4 1613B/8290 MB 121410 Exp:DB225RES
327.8840 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12384.0,1.00%,F,T)



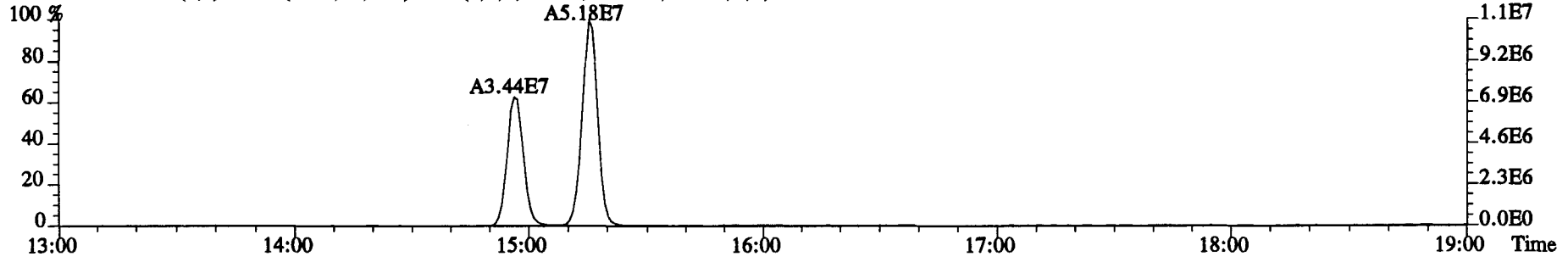
327.8840 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12384.0,1.00%,F,T)



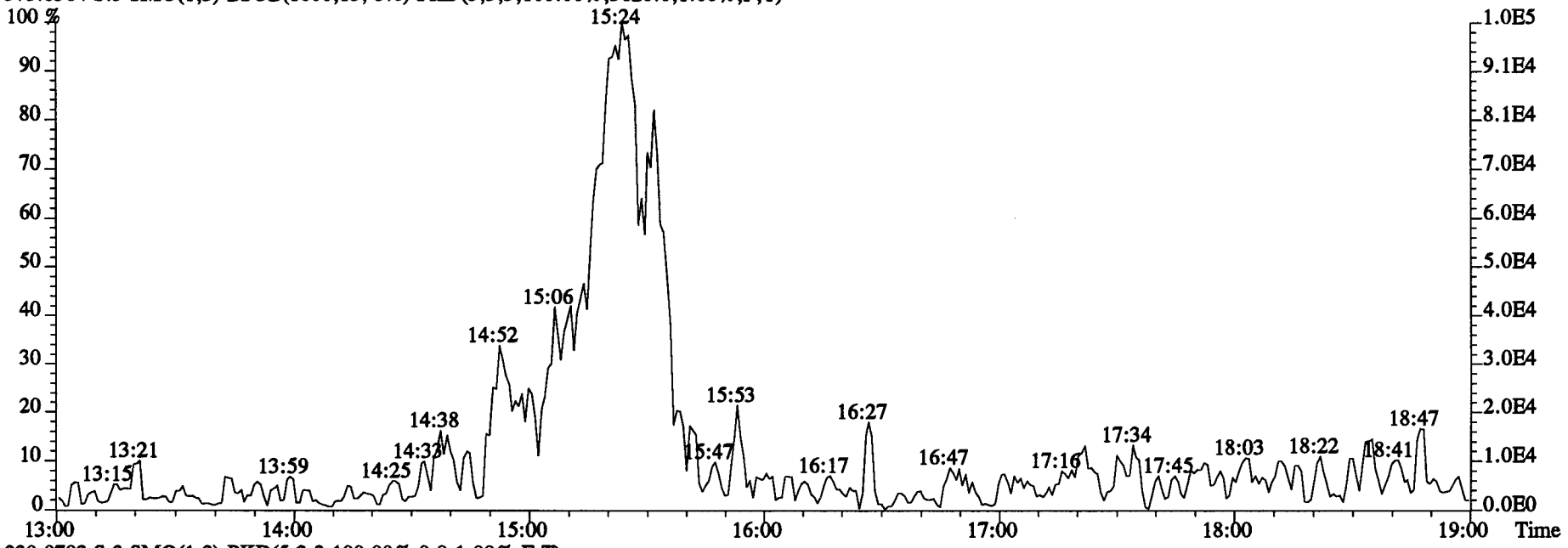
331.9368 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21532.0,1.00%,F,T)



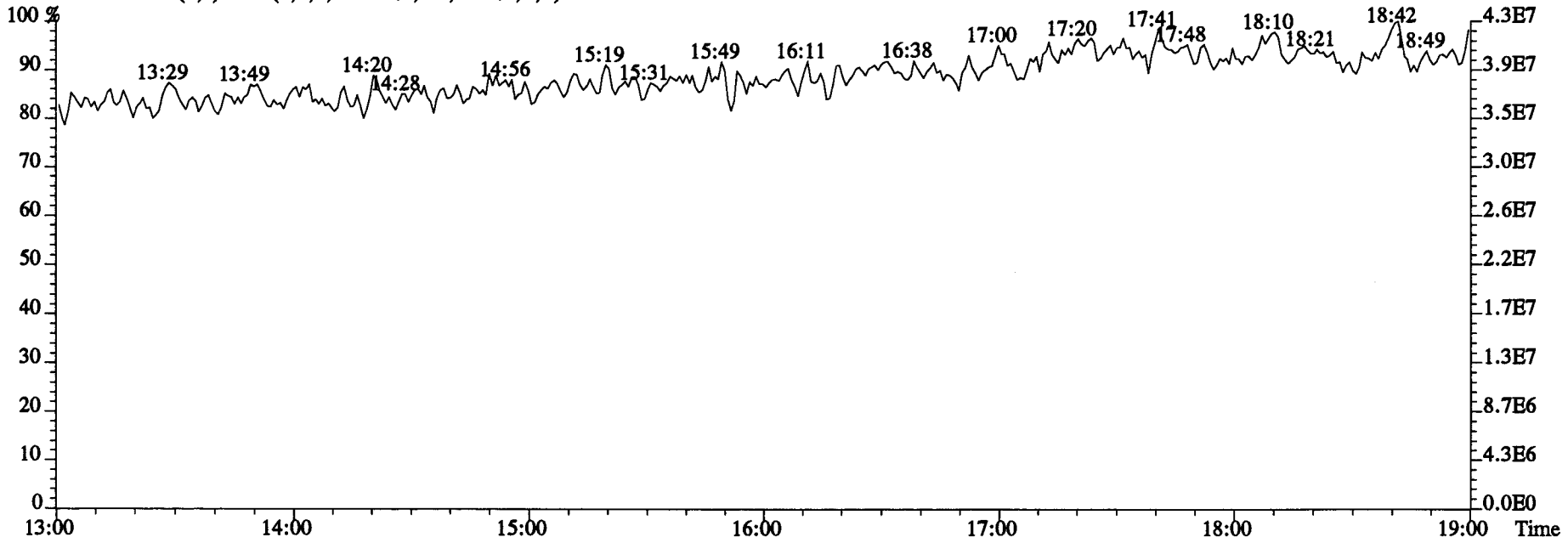
333.9339 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13780.0,1.00%,F,T)



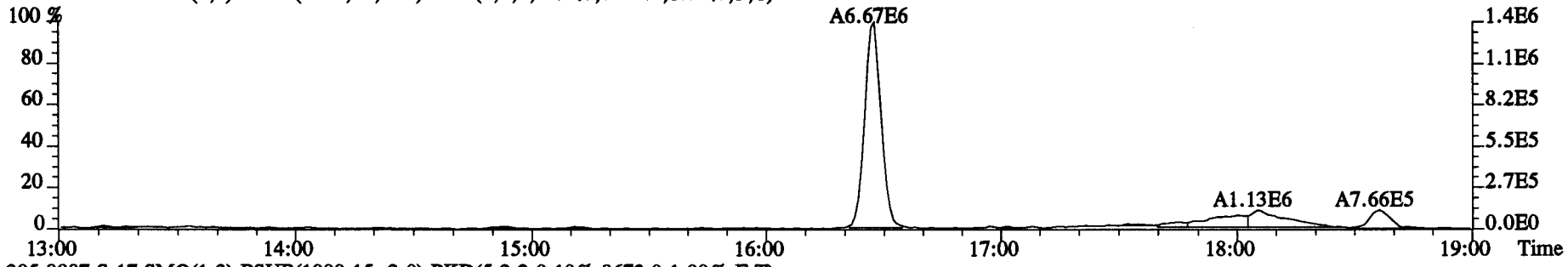
File:16DE10A5D2 #1-1242 Acq:16-DEC-2010 11:43:31 GC EI+ Voltage SIR 70SE
Sample#3 Text:LOD/LOQ-MB :Q4 1613B/8290 MB 121410 Exp:DB225RES
375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,3620.0,1.00%,F,T)



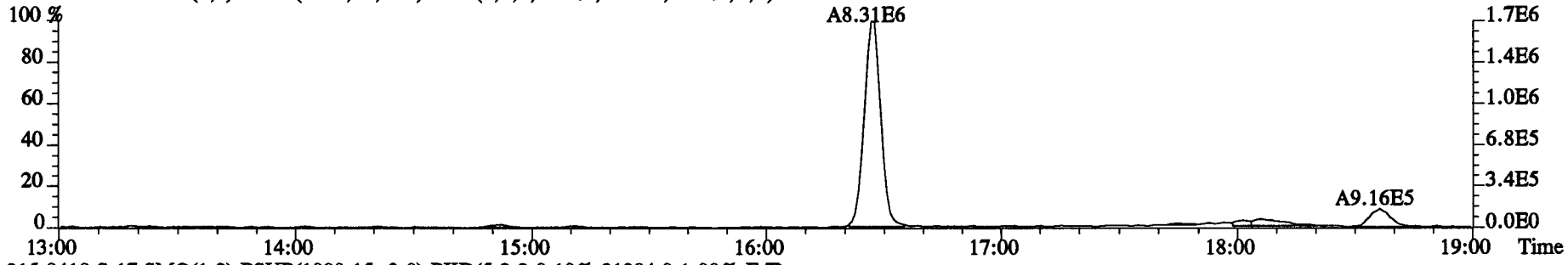
330.9792 S:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



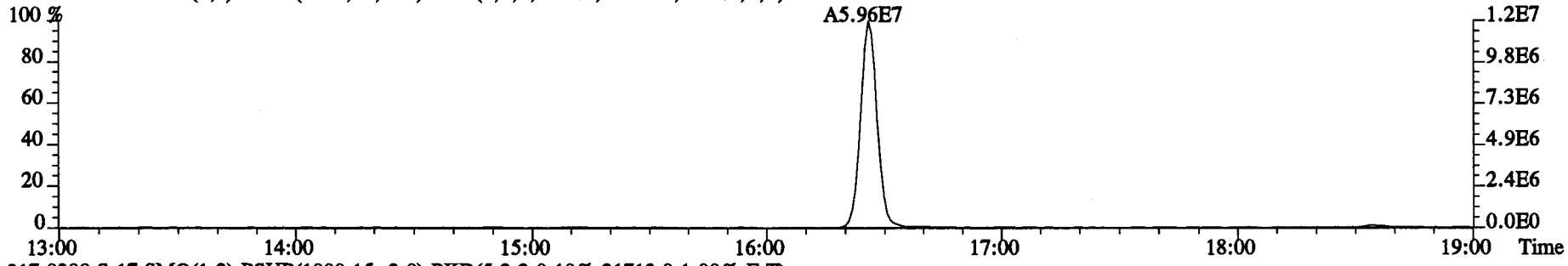
File:16DE10A5D2 #1-1241 Acq:16-DEC-2010 20:13:04 GC EI+ Voltage SIR 70SE
Sample#17 Text:ST1216A :CS3 10DXN505 Exp:DB225RES
303.9016 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8068.0,1.00%,F,T)



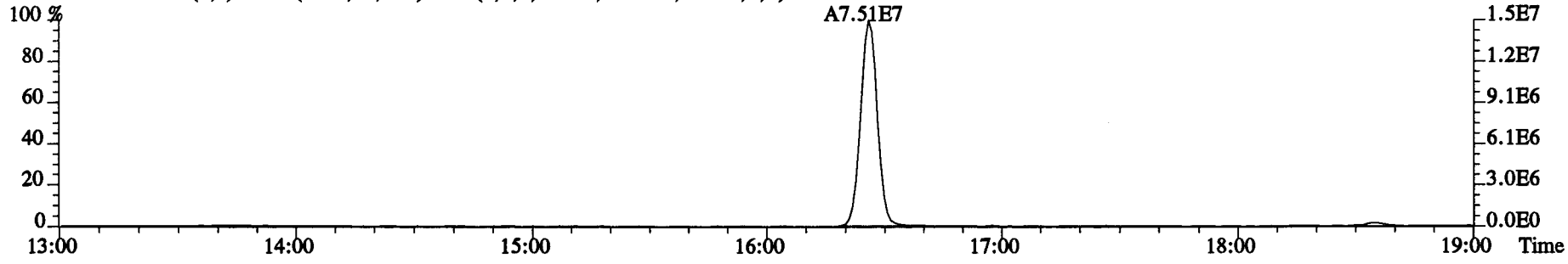
305.8987 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8672.0,1.00%,F,T)



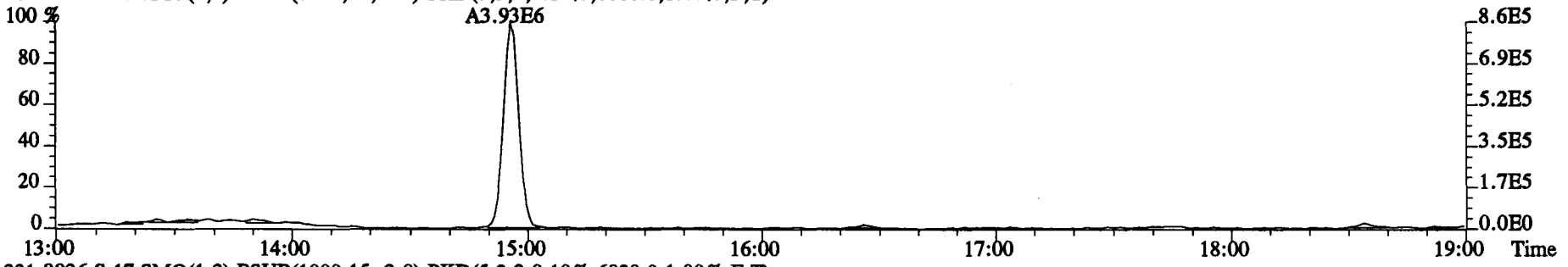
315.9419 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21384.0,1.00%,F,T)



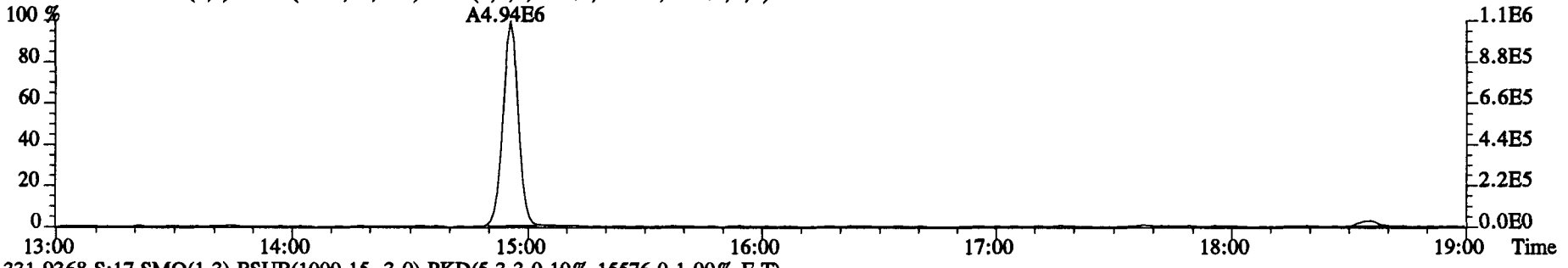
317.9389 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,31712.0,1.00%,F,T)



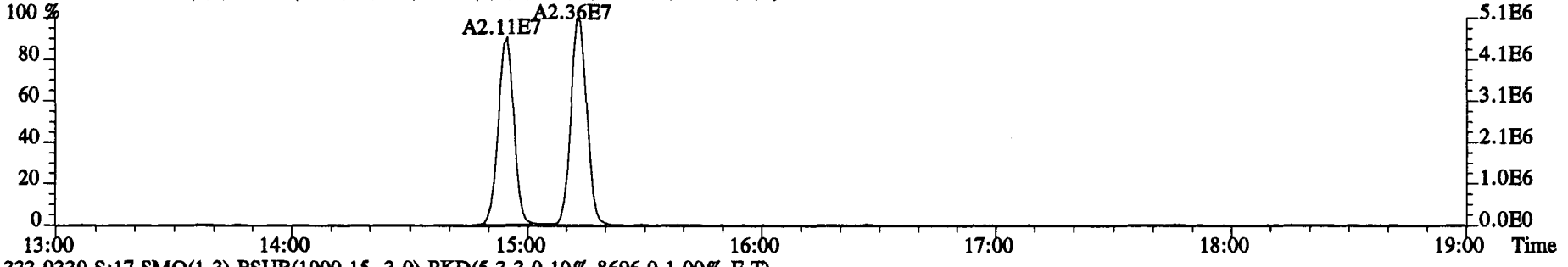
File:16DE10A5D2 #1-1241 Acq:16-DEC-2010 20:13:04 GC EI+ Voltage SIR 70SE
Sample#17 Text:ST1216A :CS3 10DXN505 Exp:DB225RES
319.8965 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6868.0,1.00%,F,T)



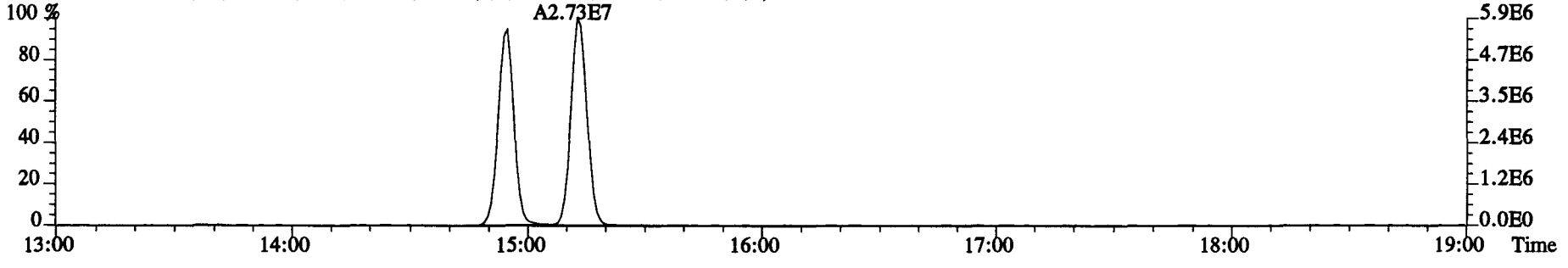
321.8936 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6828.0,1.00%,F,T)



331.9368 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15576.0,1.00%,F,T)

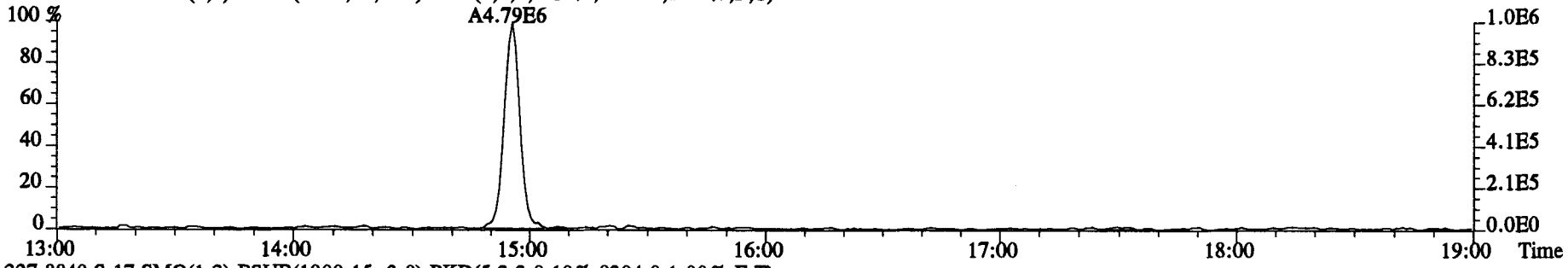


333.9339 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8696.0,1.00%,F,T)

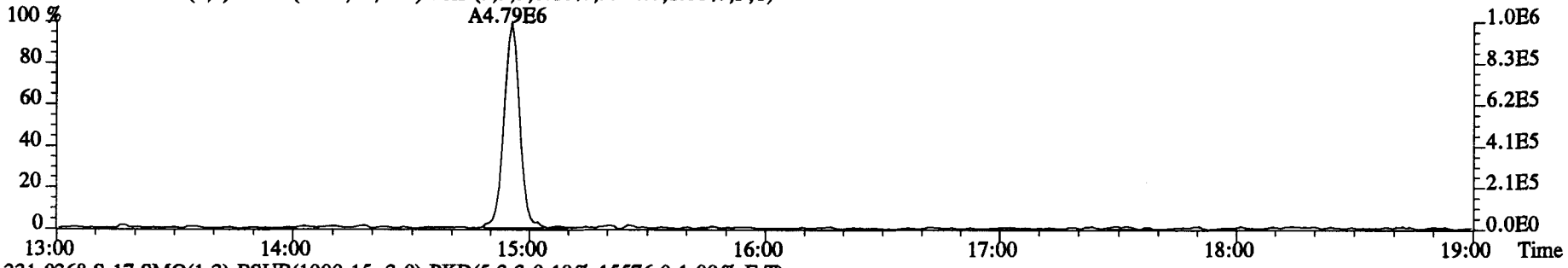


File:16DE10A5D2 #1-1241 Acq:16-DEC-2010 20:13:04 GC EI+ Voltage SIR 70SE
Sample#17 Text:ST1216A :CS3 10DXN505 Exp:DB225RES

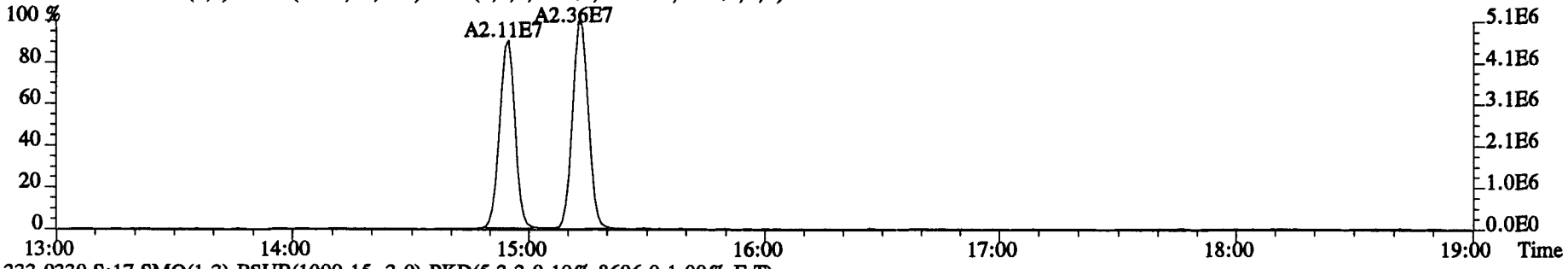
327.8840 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9304.0,1.00%,F,T)



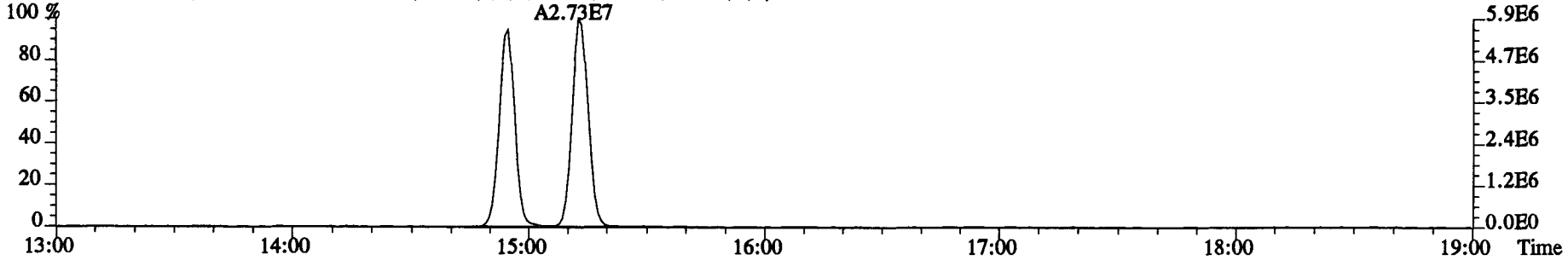
327.8840 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9304.0,1.00%,F,T)



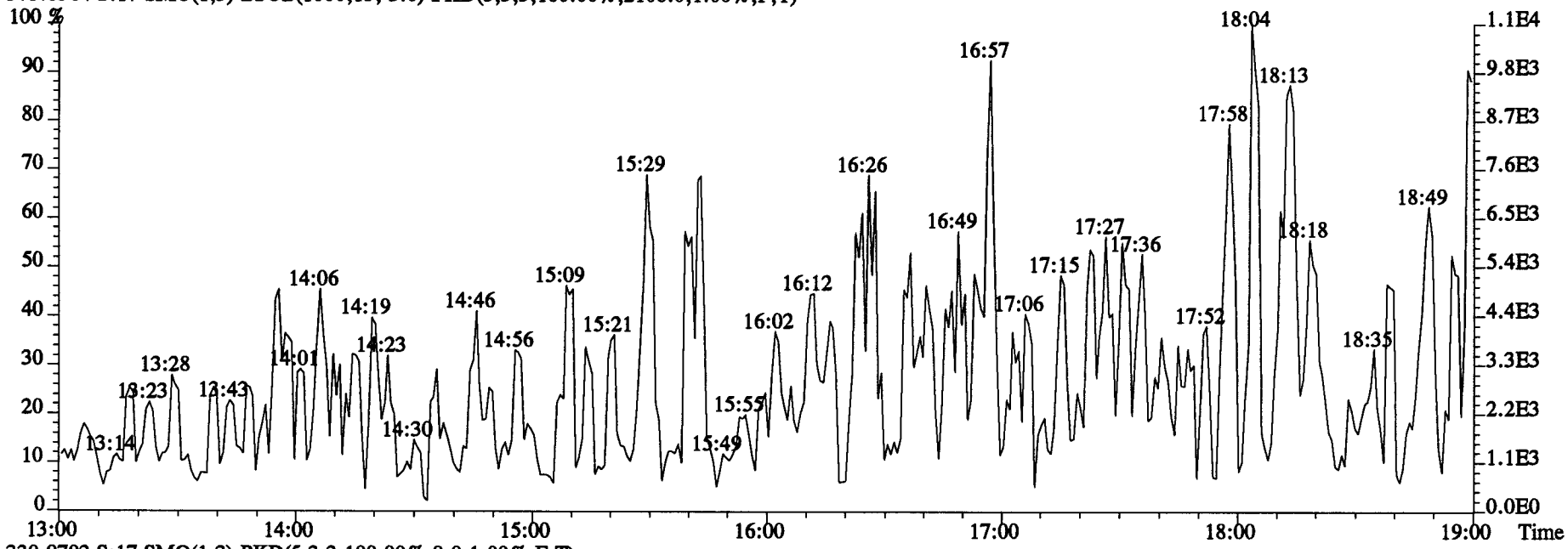
331.9368 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15576.0,1.00%,F,T)



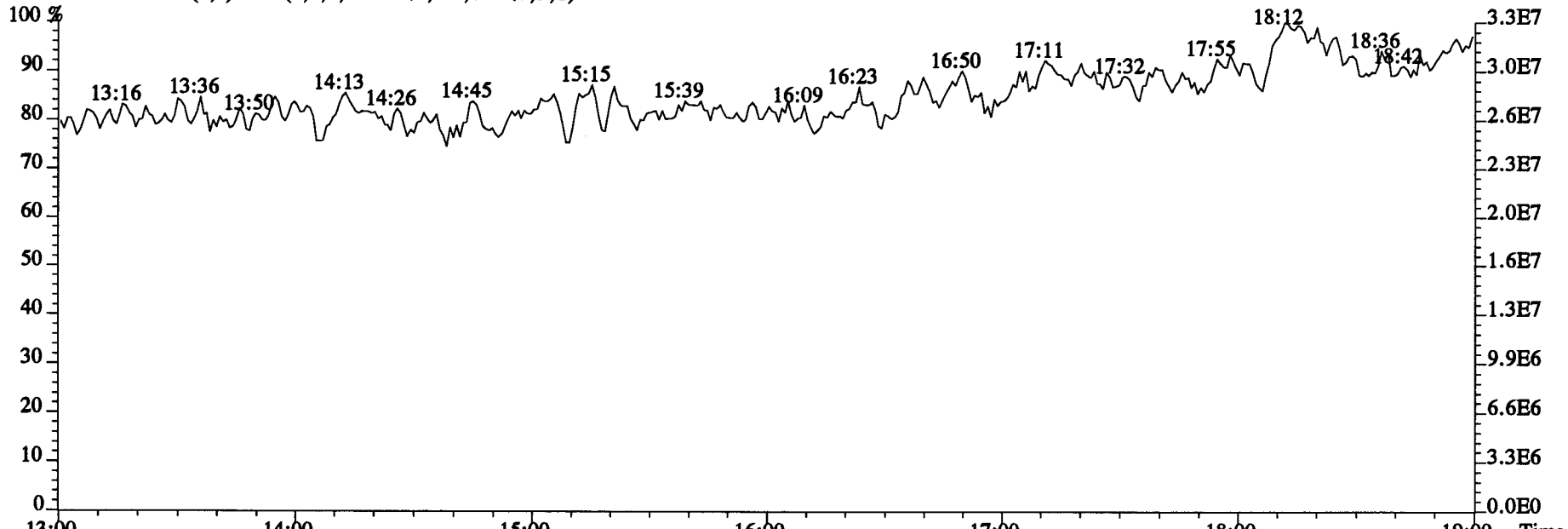
333.9339 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8696.0,1.00%,F,T)



File:16DE10A5D2 #1-1241 Acq:16-DEC-2010 20:13:04 GC EI+ Voltage SIR 70SE
Sample#17 Text:ST1216A :CS3 10DXN505 Exp:DB225RES
375.8364 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2108.0,1.00%,F,T)



330.9792 S:17 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

Test America – West Sacramento

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Initial Calibration Checklist
Dioxin Methods

ICAL ID (8290,1613,TO9,23,Tetras,0023A) 1214-109D5

Method ID 8290,1613B,TO9,23,0023A Date Scanned _____

Column ID DB5 Instrument ID 9D5

STD ID's ST1214(-A,B,C,D) STD Solution 1ODXN(503,504,505,506,507)

GC Program OCDD Multiplier Setting 400

Analyzed By AS Date Analyzed 12-14-10

Prepared By AM, AS Date Prepared 12-15-10

Reviewed By M.G. Date Reviewed 12/15/10

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?	✓	✓

COMMENTS:

CS3 RT's : 13C-1,2,3,4-TCDD → 19:12
13C-1,2,3,7,8,9-HxCDD → 32:49

*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

Run: 15SE098D2 Analyte: TO9 Cal: TO91214109D5

ST1214 :CS-1 10DXN503 ST1214A :CS-2 10DXN504 ST1214B :CS-3 10DXN505
ST1214C :CS-4 10DXN506 ST1214D :CS-5 10DXN507

Name	Mean	S. D.	%RSD	14DE10A9D5 S3 RRF1	14DE10A9D5 S4 RRF2	14DE10A9D5 S5 RRF3	14DE10A9D5 S6 RRF4	14DE10A9D5 S7 RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.114	0.036	3.21 %	1.13	1.15	1.14	1.08	1.08
2,3,7,8-TCDF	0.883	0.033	3.69 %	0.94	0.87	0.87	0.87	0.86
Total TCDF	0.883	0.033	3.69 %	0.94	0.87	0.87	0.87	0.86
13C-2,3,7,8-TCDD	0.972	0.039	4.01 %	0.99	1.00	1.01	0.93	0.93
2,3,7,8-TCDD	0.872	0.039	4.51 %	0.91	0.91	0.82	0.87	0.85
Total TCDD	0.872	0.039	4.51 %	0.91	0.91	0.82	0.87	0.85
37Cl-2,3,7,8-TCDD	1.224	0.037	3.00 %	1.29	1.22	1.21	1.21	1.19
13C-1,2,3,7,8-PeCDF	0.921	0.015	1.64 %	0.93	0.93	0.93	0.90	0.92
1,2,3,7,8-PeCDF	1.065	0.029	2.74 %	1.07	1.11	1.04	1.05	1.05
2,3,4,7,8-PeCDF	1.028	0.029	2.82 %	1.04	1.07	1.00	1.02	1.01
Total F2 PeCDF	1.046	0.029	2.77 %	1.05	1.09	1.02	1.03	1.03
Total F1 PeCDF	1.046	0.029	2.77 %	1.05	1.09	1.02	1.03	1.03
13C-1,2,3,7,8-PeCDD	0.829	0.013	1.57 %	0.83	0.82	0.84	0.81	0.84
1,2,3,7,8-PeCDD	0.793	0.025	3.17 %	0.79	0.84	0.77	0.79	0.78
Total PeCDD	0.793	0.025	3.17 %	0.79	0.84	0.77	0.79	0.78
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-
13C-1,2,3,4,7,8-HxCDF	1.072	0.048	4.45 %	1.04	1.09	1.15	1.03	1.05
1,2,3,4,7,8-HxCDF	1.063	0.048	4.49 %	1.10	1.11	1.00	1.06	1.03
1,2,3,6,7,8-HxCDF	1.122	0.057	5.06 %	1.18	1.18	1.08	1.12	1.05
2,3,4,6,7,8-HxCDF	1.048	0.041	3.96 %	1.10	1.08	1.00	1.05	1.01
1,2,3,7,8,9-HxCDF	0.953	0.041	4.28 %	0.99	1.00	0.91	0.94	0.92
Total HxCDF	1.046	0.046	4.37 %	1.09	1.09	1.00	1.05	1.00
13C-1,2,3,6,7,8-HxCDD	0.888	0.046	5.21 %	0.87	0.93	0.94	0.84	0.85
1,2,3,4,7,8-HxCDD	1.114	0.066	5.92 %	1.18	1.12	1.01	1.15	1.11

1,2,3,6,7,8-HxCDD	1.159	0.042	3.60 %	1.21	1.17	1.16	1.15	1.10
1,2,3,7,8,9-HxCDD	1.202	0.042	3.49 %	1.26	1.20	1.16	1.22	1.17
Total HxCDD	1.158	0.044	3.80 %	1.22	1.17	1.11	1.17	1.13
13C-1,2,3,4,6,7,8-HpCDF	0.948	0.024	2.48 %	0.94	0.95	0.99	0.93	0.93
1,2,3,4,6,7,8-HpCDF	1.435	0.063	4.40 %	1.50	1.50	1.39	1.41	1.36
1,2,3,4,7,8,9-HpCDF	1.227	0.052	4.20 %	1.28	1.29	1.18	1.19	1.19
Total HpCDF	1.331	0.057	4.25 %	1.39	1.39	1.29	1.30	1.28
13C-1,2,3,4,6,7,8-HpCDD	1.075	0.030	2.75 %	1.06	1.07	1.13	1.06	1.05
1,2,3,4,6,7,8-HpCDD	0.895	0.032	3.57 %	0.93	0.93	0.87	0.88	0.87
Total HpCDD	0.895	0.032	3.57 %	0.93	0.93	0.87	0.88	0.87
13C-OCDD	0.690	0.017	2.46 %	0.70	0.68	0.70	0.66	0.69
OCDF	1.180	0.028	2.37 %	1.18	1.22	1.14	1.18	1.17
OCDD	1.139	0.055	4.82 %	1.20	1.20	1.10	1.12	1.08

Run #1 Filename 14DE10A9D5 S: 3 I: 1
Acquired: 14-DEC-10 16:23:45 Processed: 15-DEC-10 09:33:50
Run: 15SE098D2 Analyte: TO9 Cal: TO91214109D5
Comments:
Sample text: ST1214 :CS-1 10DXN503

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	169277200	0.76	y	19:12	-	100.00	n
13C-2,3,7,8-TCDF	190592700	0.80	y	18:37	1.1259	100.00	n
2,3,7,8-TCDF	896688	0.66	y	18:38	0.9409	0.50	y
Total TCDF	-	-	n	-	0.9409	0.50	n
13C-2,3,7,8-TCDD	167242900	0.75	y	19:24	0.9880	100.00	n
2,3,7,8-TCDD	760359	0.79	y	19:25	0.9093	0.50	n
Total TCDD	-	-	n	-	0.9093	0.50	n
37Cl-2,3,7,8-TCDD	1076126	1.00	y	19:25	1.2869	0.50	n
13C-1,2,3,7,8-PeCDF	157913900	1.52	y	24:16	0.9329	100.00	n
1,2,3,7,8-PeCDF	4214010	1.60	y	24:17	1.0674	2.50	n
2,3,4,7,8-PeCDF	4104070	1.56	y	25:47	1.0396	2.50	n
Total F2 PeCDF	-	-	n	-	1.0535	5.00	n
Total F1 PeCDF	-	-	n	-	1.0535	5.00	n
13C-1,2,3,7,8-PeCDD	140444300	1.56	y	26:36	0.8297	100.00	n
1,2,3,7,8-PeCDD	2784830	1.51	y	26:37	0.7931	2.50	n
Total PeCDD	-	-	n	-	0.7931	2.50	n
13C-1,2,3,7,8,9-HxCDD	110089000	1.31	y	32:49	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	114523400	0.49	y	31:40	1.0403	100.00	n
1,2,3,4,7,8-HxCDF	3161410	1.22	y	31:41	1.1042	2.50	n
1,2,3,6,7,8-HxCDF	3366270	1.21	y	31:47	1.1757	2.50	n
2,3,4,6,7,8-HxCDF	3135130	1.21	y	32:22	1.0950	2.50	n
1,2,3,7,8,9-HxCDF	2845150	1.15	y	33:00	0.9937	2.50	n
Total HxCDF	-	-	n	-	1.0922	10.00	n
13C-1,2,3,6,7,8-HxCDD	95976800	1.29	y	32:33	0.8718	100.00	n
1,2,3,4,7,8-HxCDD	2840330	1.33	y	32:30	1.1838	2.50	n
1,2,3,6,7,8-HxCDD	2914570	1.09	y	32:34	1.2147	2.50	n
1,2,3,7,8,9-HxCDD	3033130	1.22	y	32:50	1.2641	2.50	n
Total HxCDD	-	-	n	-	1.2209	7.50	n
13C-1,2,3,4,6,7,8-HpCDF	103911900	0.43	y	34:18	0.9439	100.00	n
1,2,3,4,6,7,8-HpCDF	3898490	1.02	y	34:18	1.5007	2.50	n
1,2,3,4,7,8,9-HpCDF	3322190	1.02	y	35:24	1.2788	2.50	n
Total HpCDF	-	-	n	-	1.3898	5.00	n
13C-1,2,3,4,6,7,8-HpCDD	116640900	1.01	y	35:05	1.0595	100.00	n
1,2,3,4,6,7,8-HpCDD	2716170	1.00	y	35:06	0.9315	2.50	n
Total HpCDD	-	-	n	-	0.9315	2.50	n
13C-OCDD	155029400	0.86	y	37:31	0.7041	200.00	n
OCDF	4590080	0.85	y	37:38	1.1843	5.00	n

OCDD	4632180	0.90	y	37:32	1.1952	5.00	n

Run #1 Filename 14DE10A9D5 S: 3 I: 1
Acquired: 14-DEC-10 16:23:45 Processed: 15-DEC-10 09:33:50
Run: 15SE098D2 Analyte: TO9 Cal: TO91214109D5
Comments:
Sample text: ST1214 :CS-1 10DXN503

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	169277200	0.76	y	19:12	-	100.00	n
13C-2,3,7,8-TCDF	190592700	0.80	y	18:37	1.1259	100.00	n
2,3,7,8-TCDF	794017	0.64	n	18:38	0.8332	0.50	n
Total TCDF	-	-	n	-	0.8332	0.50	n
13C-2,3,7,8-TCDD	167242900	0.75	y	19:24	0.9880	100.00	n
2,3,7,8-TCDD	760359	0.79	y	19:25	0.9093	0.50	n
Total TCDD	-	-	n	-	0.9093	0.50	n
37Cl-2,3,7,8-TCDD	1076126	1.00	y	19:25	1.2869	0.50	n
13C-1,2,3,7,8-PeCDF	157913900	1.52	y	24:16	0.9329	100.00	n
1,2,3,7,8-PeCDF	4214010	1.60	y	24:17	1.0674	2.50	n
2,3,4,7,8-PeCDF	4104070	1.56	y	25:47	1.0396	2.50	n
Total F2 PeCDF	-	-	n	-	1.0535	5.00	n
Total F1 PeCDF	-	-	n	-	1.0535	5.00	n
13C-1,2,3,7,8-PeCDD	140444300	1.56	y	26:36	0.8297	100.00	n
1,2,3,7,8-PeCDD	2784830	1.51	y	26:37	0.7931	2.50	n
Total PeCDD	-	-	n	-	0.7931	2.50	n
13C-1,2,3,7,8,9-HxCDD	110089000	1.31	y	32:49	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	114523400	0.49	y	31:40	1.0403	100.00	n
1,2,3,4,7,8-HxCDF	3161410	1.22	y	31:41	1.1042	2.50	n
1,2,3,6,7,8-HxCDF	3366270	1.21	y	31:47	1.1757	2.50	n
2,3,4,6,7,8-HxCDF	3135130	1.21	y	32:22	1.0950	2.50	n
1,2,3,7,8,9-HxCDF	2845150	1.15	y	33:00	0.9937	2.50	n
Total HxCDF	-	-	n	-	1.0922	10.00	n
13C-1,2,3,6,7,8-HxCDD	95976800	1.29	y	32:33	0.8718	100.00	n
1,2,3,4,7,8-HxCDD	2840330	1.33	y	32:30	1.1838	2.50	n
1,2,3,6,7,8-HxCDD	2914570	1.09	y	32:34	1.2147	2.50	n
1,2,3,7,8,9-HxCDD	3033130	1.22	y	32:50	1.2641	2.50	n
Total HxCDD	-	-	n	-	1.2209	7.50	n
13C-1,2,3,4,6,7,8-HpCDF	103911900	0.43	y	34:18	0.9439	100.00	n
1,2,3,4,6,7,8-HpCDF	3898490	1.02	y	34:18	1.5007	2.50	n
1,2,3,4,7,8,9-HpCDF	3322190	1.02	y	35:24	1.2788	2.50	n
Total HpCDF	-	-	n	-	1.3898	5.00	n
13C-1,2,3,4,6,7,8-HpCDD	116640900	1.01	y	35:05	1.0595	100.00	n
1,2,3,4,6,7,8-HpCDD	2716170	1.00	y	35:06	0.9315	2.50	n
Total HpCDD	-	-	n	-	0.9315	2.50	n
13C-OCDD	155029400	0.86	y	37:31	0.7041	200.00	n
OCDF	4590080	0.85	y	37:38	1.1843	5.00	n

OCDD	4632180	0.90	y	37:32	1.1952	5.00	n

Run #2 Filename 14DE10A9D5 S: 4 I: 1
Acquired: 14-DEC-10 17:07:24 Processed: 15-DEC-10 09:33:52
Run: 15SE098D2 Analyte: TO9 Cal: TO91214109D5
Comments:
Sample text: ST1214A :CS-2 10DXN504

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	158505400	0.75	y	19:12	-	100.00	n
13C-2,3,7,8-TCDF	182477700	0.79	y	18:36	1.1512	100.00	n
2,3,7,8-TCDF	3180620	0.78	y	18:37	0.8715	2.00	n
Total TCDF	-	-	n	-	0.8715	2.00	n
13C-2,3,7,8-TCDD	158919700	0.76	y	19:23	1.0026	100.00	n
2,3,7,8-TCDD	2902290	0.80	y	19:25	0.9131	2.00	n
Total TCDD	-	-	n	-	0.9131	2.00	n
37Cl-2,3,7,8-TCDD	3884840	1.00	y	19:25	1.2223	2.00	n
13C-1,2,3,7,8-PeCDF	146764300	1.48	y	24:15	0.9259	100.00	n
1,2,3,7,8-PeCDF	16342850	1.52	y	24:17	1.1135	10.00	n
2,3,4,7,8-PeCDF	15731710	1.56	y	25:47	1.0719	10.00	n
Total F2 PeCDF	-	-	n	-	1.0927	20.00	n
Total F1 PeCDF	-	-	n	-	1.0927	20.00	n
13C-1,2,3,7,8-PeCDD	130737900	1.51	y	26:36	0.8248	100.00	n
1,2,3,7,8-PeCDD	10918100	1.48	y	26:36	0.8351	10.00	n
Total PeCDD	-	-	n	-	0.8351	10.00	n
13C-1,2,3,7,8,9-HxCDD	100073000	1.29	y	32:49	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	109378700	0.51	y	31:39	1.0930	100.00	n
1,2,3,4,7,8-HxCDF	12195220	1.18	y	31:41	1.1150	10.00	n
1,2,3,6,7,8-HxCDF	12867000	1.20	y	31:47	1.1764	10.00	n
2,3,4,6,7,8-HxCDF	11818330	1.17	y	32:21	1.0805	10.00	n
1,2,3,7,8,9-HxCDF	10894500	1.22	y	32:59	0.9960	10.00	n
Total HxCDF	-	-	n	-	1.0920	40.00	n
13C-1,2,3,6,7,8-HxCDD	93015400	1.30	y	32:33	0.9295	100.00	n
1,2,3,4,7,8-HxCDD	10437150	1.17	y	32:29	1.1221	10.00	n
1,2,3,6,7,8-HxCDD	10917700	1.21	y	32:34	1.1738	10.00	n
1,2,3,7,8,9-HxCDD	11166590	1.17	y	32:50	1.2005	10.00	n
Total HxCDD	-	-	n	-	1.1655	30.00	n
13C-1,2,3,4,6,7,8-HpCDF	95006000	0.44	y	34:17	0.9494	100.00	n
1,2,3,4,6,7,8-HpCDF	14273760	1.03	y	34:18	1.5024	10.00	n
1,2,3,4,7,8,9-HpCDF	12225480	0.99	y	35:23	1.2868	10.00	n
Total HpCDF	-	-	n	-	1.3946	20.00	n
13C-1,2,3,4,6,7,8-HpCDD	107524700	1.00	y	35:04	1.0745	100.00	n
1,2,3,4,6,7,8-HpCDD	9984280	1.01	y	35:05	0.9286	10.00	n
Total HpCDD	-	-	n	-	0.9286	10.00	n
13C-OCDD	136417800	0.87	y	37:30	0.6816	200.00	n
OCDF	16640190	0.86	y	37:37	1.2198	20.00	n
OCDD	16359050	0.90	y	37:31	1.1992	20.00	n

Run #3 Filename 14DE10A9D5 S: 5 I: 1
Acquired: 14-DEC-10 17:51:03 Processed: 15-DEC-10 09:33:53
Run: 15SE098D2 Analyte: TO9 Cal: TO91214109D5
Comments:
Sample text: ST1214B :CS-3 10DXN505

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	153544700	0.76	y	19:12	-	100.00	n
13C-2,3,7,8-TCDF	175136200	0.80	y	18:36	1.1406	100.00	n
2,3,7,8-TCDF	15246560	0.77	y	18:37	0.8706	10.00	n
Total TCDF	-	-	n	-	0.8706	10.00	n
13C-2,3,7,8-TCDD	154919700	0.76	y	19:24	1.0090	100.00	n
2,3,7,8-TCDD	12747850	0.79	y	19:25	0.8229	10.00	n
Total TCDD	-	-	n	-	0.8229	10.00	n
37Cl-2,3,7,8-TCDD	18731020	1.00	y	19:25	1.2091	10.00	n
13C-1,2,3,7,8-PeCDF	142893100	1.51	y	24:15	0.9306	100.00	n
1,2,3,7,8-PeCDF	74285700	1.57	y	24:17	1.0397	50.00	n
2,3,4,7,8-PeCDF	71269200	1.53	y	25:47	0.9975	50.00	n
Total F2 PeCDF	-	-	n	-	1.0186	100.00	n
Total F1 PeCDF	-	-	n	-	1.0186	100.00	n
13C-1,2,3,7,8-PeCDD	128940400	1.55	y	26:35	0.8398	100.00	n
1,2,3,7,8-PeCDD	49701700	1.50	y	26:37	0.7709	50.00	n
Total PeCDD	-	-	n	-	0.7709	50.00	n
13C-1,2,3,7,8,9-HxCDD	95981900	1.30	y	32:49	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	109990900	0.51	y	31:40	1.1460	100.00	n
1,2,3,4,7,8-HxCDF	55100200	1.19	y	31:41	1.0019	50.00	n
1,2,3,6,7,8-HxCDF	59611800	1.20	y	31:47	1.0839	50.00	n
2,3,4,6,7,8-HxCDF	54989200	1.19	y	32:21	0.9999	50.00	n
1,2,3,7,8,9-HxCDF	49941500	1.21	y	33:00	0.9081	50.00	n
Total HxCDF	-	-	n	-	0.9985	200.00	n
13C-1,2,3,6,7,8-HxCDD	90641000	1.30	y	32:33	0.9444	100.00	y
1,2,3,4,7,8-HxCDD	45634700	1.18	y	32:30	1.0069	50.00	n
1,2,3,6,7,8-HxCDD	52456300	1.20	y	32:34	1.1575	50.00	n
1,2,3,7,8,9-HxCDD	52453700	1.19	y	32:50	1.1574	50.00	n
Total HxCDD	-	-	n	-	1.1073	150.00	n
13C-1,2,3,4,6,7,8-HpCDF	94758900	0.43	y	34:18	0.9873	100.00	n
1,2,3,4,6,7,8-HpCDF	66091800	1.01	y	34:18	1.3949	50.00	n
1,2,3,4,7,8,9-HpCDF	56000400	1.02	y	35:24	1.1820	50.00	n
Total HpCDF	-	-	n	-	1.2885	100.00	n
13C-1,2,3,4,6,7,8-HpCDD	108127000	0.98	y	35:05	1.1265	100.00	n
1,2,3,4,6,7,8-HpCDD	46807200	1.01	y	35:06	0.8658	50.00	n
Total HpCDD	-	-	n	-	0.8658	50.00	n
13C-OCDD	135289200	0.86	y	37:31	0.7048	200.00	n
OCDF	77240500	0.87	y	37:38	1.1419	100.00	n

OCDD	74157100	0.91	y	37:31	1.0963	100.00	n

Run #3 Filename 14DE10A9D5 S: 5 I: 1
Acquired: 14-DEC-10 17:51:03 Processed: 15-DEC-10 09:33:53
Run: 15SE098D2 Analyte: TO9 Cal: TO91214109D5
Comments:
Sample text: ST1214B :CS-3 10DXN505

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	153544700	0.76	y	19:12	-	100.00	n
13C-2,3,7,8-TCDF	175136200	0.80	y	18:36	1.1406	100.00	n
2,3,7,8-TCDF	15246560	0.77	y	18:37	0.8706	10.00	n
Total TCDF	-	-	n	-	0.8706	10.00	n
13C-2,3,7,8-TCDD	154919700	0.76	y	19:24	1.0090	100.00	n
2,3,7,8-TCDD	12747850	0.79	y	19:25	0.8229	10.00	n
Total TCDD	-	-	n	-	0.8229	10.00	n
37Cl-2,3,7,8-TCDD	18731020	1.00	y	19:25	1.2091	10.00	n
13C-1,2,3,7,8-PeCDF	142893100	1.51	y	24:15	0.9306	100.00	n
1,2,3,7,8-PeCDF	74285700	1.57	y	24:17	1.0397	50.00	n
2,3,4,7,8-PeCDF	71269200	1.53	y	25:47	0.9975	50.00	n
Total F2 PeCDF	-	-	n	-	1.0186	100.00	n
Total F1 PeCDF	-	-	n	-	1.0186	100.00	n
13C-1,2,3,7,8-PeCDD	128940400	1.55	y	26:35	0.8398	100.00	n
1,2,3,7,8-PeCDD	49701700	1.50	y	26:37	0.7709	50.00	n
Total PeCDD	-	-	n	-	0.7709	50.00	n
13C-1,2,3,7,8,9-HxCDD	95981900	1.30	y	32:49	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	109990900	0.51	y	31:40	1.1460	100.00	n
1,2,3,4,7,8-HxCDF	55100200	1.19	y	31:41	1.0019	50.00	n
1,2,3,6,7,8-HxCDF	59611800	1.20	y	31:47	1.0839	50.00	n
2,3,4,6,7,8-HxCDF	54989200	1.19	y	32:21	0.9999	50.00	n
1,2,3,7,8,9-HxCDF	49941500	1.21	y	33:00	0.9081	50.00	n
Total HxCDF	-	-	n	-	0.9985	200.00	n
13C-1,2,3,6,7,8-HxCDD	89815100	1.16	y	32:33	0.9357	100.00	n
1,2,3,4,7,8-HxCDD	45634700	1.18	y	32:30	1.0162	50.00	n
1,2,3,6,7,8-HxCDD	52456300	1.20	y	32:34	1.1681	50.00	n
1,2,3,7,8,9-HxCDD	52453700	1.19	y	32:50	1.1680	50.00	n
Total HxCDD	-	-	n	-	1.1174	150.00	n
13C-1,2,3,4,6,7,8-HpCDF	94758900	0.43	y	34:18	0.9873	100.00	n
1,2,3,4,6,7,8-HpCDF	66091800	1.01	y	34:18	1.3949	50.00	n
1,2,3,4,7,8,9-HpCDF	56000400	1.02	y	35:24	1.1820	50.00	n
Total HpCDF	-	-	n	-	1.2885	100.00	n
13C-1,2,3,4,6,7,8-HpCDD	108127000	0.98	y	35:05	1.1265	100.00	n
1,2,3,4,6,7,8-HpCDD	46807200	1.01	y	35:06	0.8658	50.00	n
Total HpCDD	-	-	n	-	0.8658	50.00	n
13C-OCDD	135289200	0.86	y	37:31	0.7048	200.00	n
OCDF	77240500	0.87	y	37:38	1.1419	100.00	n
OCDD	74157100	0.91	y	37:31	1.0963	100.00	n

Run #4 Filename 14DE10A9D5 S: 6 I: 1
Acquired: 14-DEC-10 18:34:40 Processed: 15-DEC-10 09:33:54
Run: 15SE098D2 Analyte: TO9 Cal: TO91214109D5
Comments:
Sample text: ST1214C :CS-4 10DXN506

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	153217100	0.76	y	19:13	-	100.00	n
13C-2,3,7,8-TCDF	165019900	0.79	y	18:37	1.0770	100.00	n
2,3,7,8-TCDF	57240300	0.76	y	18:38	0.8672	40.00	n
Total TCDF	-	-	n	-	0.8672	40.00	n
13C-2,3,7,8-TCDD	141943200	0.75	y	19:24	0.9264	100.00	n
2,3,7,8-TCDD	49162000	0.79	y	19:26	0.8659	40.00	n
Total TCDD	-	-	n	-	0.8659	40.00	n
37Cl-2,3,7,8-TCDD	68430200	1.00	y	19:26	1.2052	40.00	n
13C-1,2,3,7,8-PeCDF	137194600	1.51	y	24:17	0.8954	100.00	n
1,2,3,7,8-PeCDF	289213000	1.55	y	24:18	1.0540	200.00	n
2,3,4,7,8-PeCDF	278708000	1.53	y	25:48	1.0157	200.00	n
Total F2 PeCDF	-	-	n	-	1.0349	400.00	n
Total F1 PeCDF	-	-	n	-	1.0349	400.00	n
13C-1,2,3,7,8-PeCDD	124119100	1.54	y	26:37	0.8101	100.00	n
1,2,3,7,8-PeCDD	195862100	1.48	y	26:38	0.7890	200.00	n
Total PeCDD	-	-	n	-	0.7890	200.00	n
13C-1,2,3,7,8,9-HxCDD	99567900	1.28	y	32:50	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	102579400	0.50	y	31:40	1.0302	100.00	n
1,2,3,4,7,8-HxCDF	217738700	1.23	y	31:41	1.0613	200.00	n
1,2,3,6,7,8-HxCDF	230754000	1.15	y	31:48	1.1248	200.00	n
2,3,4,6,7,8-HxCDF	216060400	1.18	y	32:22	1.0531	200.00	n
1,2,3,7,8,9-HxCDF	193761900	1.18	y	33:00	0.9444	200.00	n
Total HxCDF	-	-	n	-	1.0459	800.00	n
13C-1,2,3,6,7,8-HxCDD	83690000	1.31	y	32:34	0.8405	100.00	n
1,2,3,4,7,8-HxCDD	191700400	1.19	y	32:30	1.1453	200.00	n
1,2,3,6,7,8-HxCDD	192773200	1.20	y	32:35	1.1517	200.00	n
1,2,3,7,8,9-HxCDD	203519200	1.20	y	32:50	1.2159	200.00	n
Total HxCDD	-	-	n	-	1.1710	600.00	n
13C-1,2,3,4,6,7,8-HpCDF	92523800	0.43	y	34:18	0.9293	100.00	n
1,2,3,4,6,7,8-HpCDF	261753000	1.02	y	34:19	1.4145	200.00	n
1,2,3,4,7,8,9-HpCDF	220386000	1.02	y	35:24	1.1910	200.00	n
Total HpCDF	-	-	n	-	1.3027	400.00	n
13C-1,2,3,4,6,7,8-HpCDD	105720500	0.99	y	35:05	1.0618	100.00	n
1,2,3,4,6,7,8-HpCDD	185611500	1.01	y	35:06	0.8778	200.00	n
Total HpCDD	-	-	n	-	0.8778	200.00	n
13C-OCDD	132341600	0.85	y	37:31	0.6646	200.00	n
OCDF	312973000	0.88	y	37:38	1.1824	400.00	n
OCDD	295855000	0.92	y	37:32	1.1178	400.00	n

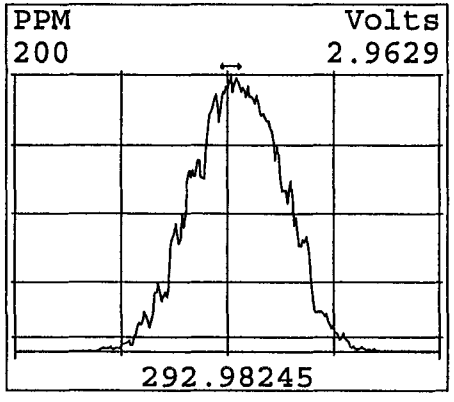
Run #5 Filename 14DE10A9D5 S: 7 I: 1
Acquired: 14-DEC-10 19:18:23 Processed: 15-DEC-10 09:33:55
Run: 15SE098D2 Analyte: TO9 Cal: TO91214109D5
Comments:
Sample text: ST1214D :CS-5 10DXN507

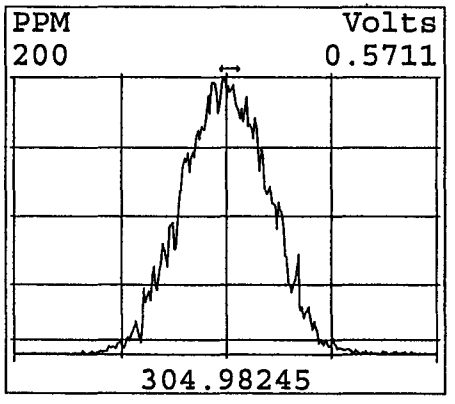
Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	154446800	0.76	y	19:12	-	100.00	n
13C-2,3,7,8-TCDF	166033400	0.79	y	18:37	1.0750	100.00	n
2,3,7,8-TCDF	287034000	0.77	y	18:38	0.8644	200.00	n
Total TCDF	-	-	n	-	0.8644	200.00	n
13C-2,3,7,8-TCDD	144241000	0.75	y	19:24	0.9339	100.00	n
2,3,7,8-TCDD	244233000	0.79	y	19:25	0.8466	200.00	n
Total TCDD	-	-	n	-	0.8466	200.00	n
37Cl-2,3,7,8-TCDD	344594000	1.00	y	19:25	1.1945	200.00	n
13C-1,2,3,7,8-PeCDF	142126700	1.50	y	24:16	0.9202	100.00	n
1,2,3,7,8-PeCDF	1489806000	1.54	y	24:18	1.0482	1000.00	n
2,3,4,7,8-PeCDF	1439811000	1.54	y	25:47	1.0130	1000.00	n
Total F2 PeCDF	-	-	n	-	1.0306	2000.00	n
Total F1 PeCDF	-	-	n	-	1.0306	2000.00	n
13C-1,2,3,7,8-PeCDD	130145600	1.53	y	26:36	0.8427	100.00	n
1,2,3,7,8-PeCDD	1011570000	1.48	y	26:38	0.7773	1000.00	n
Total PeCDD	-	-	n	-	0.7773	1000.00	n
13C-1,2,3,7,8,9-HxCDD	107432400	1.28	y	32:49	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	112941500	0.51	y	31:39	1.0513	100.00	n
1,2,3,4,7,8-HxCDF	1164980000	1.18	y	31:40	1.0315	1000.00	n
1,2,3,6,7,8-HxCDF	1182657000	1.19	y	31:48	1.0471	1000.00	n
2,3,4,6,7,8-HxCDF	1143427000	1.18	y	32:21	1.0124	1000.00	n
1,2,3,7,8,9-HxCDF	1039503000	1.19	y	32:59	0.9204	1000.00	n
Total HxCDF	-	-	n	-	1.0029	4000.00	n
13C-1,2,3,6,7,8-HxCDD	91762600	1.28	y	32:34	0.8541	100.00	n
1,2,3,4,7,8-HxCDD	1018559000	1.19	y	32:29	1.1100	1000.00	n
1,2,3,6,7,8-HxCDD	1008392000	1.20	y	32:34	1.0989	1000.00	n
1,2,3,7,8,9-HxCDD	1073897000	1.19	y	32:49	1.1703	1000.00	n
Total HxCDD	-	-	n	-	1.1264	3000.00	n
13C-1,2,3,4,6,7,8-HpCDF	99980800	0.45	y	34:17	0.9306	100.00	n
1,2,3,4,6,7,8-HpCDF	1363353000	1.02	y	34:18	1.3636	1000.00	n
1,2,3,4,7,8,9-HpCDF	1194518000	1.02	y	35:24	1.1947	1000.00	n
Total HpCDF	-	-	n	-	1.2792	2000.00	n
13C-1,2,3,4,6,7,8-HpCDD	113276400	1.00	y	35:05	1.0544	100.00	n
1,2,3,4,6,7,8-HpCDD	988772000	1.02	y	35:05	0.8729	1000.00	n
Total HpCDD	-	-	n	-	0.8729	1000.00	n
13C-OCDD	149159600	0.87	y	37:31	0.6942	200.00	n
OCDF	1747642000	0.88	y	37:38	1.1717	2000.00	n
OCDD	1617379000	0.91	y	37:31	1.0843	2000.00	n

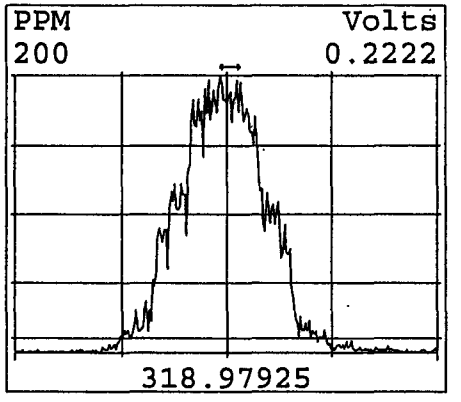
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
14DE10A9D5	1	CP1214	DB-5 CPSM 3732-08				1.00000	
14DE10A9D5	2	SB1214	Solvent Blank C-14				1.00000	
14DE10A9D5	3	ST1214	CS-1 10DXN503				1.00000	
14DE10A9D5	4	ST1214A	CS-2 10DXN504				1.00000	
14DE10A9D5	5	ST1214B	CS-3 10DXN505				1.00000	
14DE10A9D5	6	ST1214C	CS-4 10DXN506				1.00000	
14DE10A9D5	7	ST1214D	CS-5 10DXN507				1.00000	
14DE10A9D5	8	ST1214E	2nd Source 10DXN340				1.00000	
14DE10A9D5	9	MAXT5-1-AC	G0L040465-9LCS	20	TO9/AIR	34	0.50000	SAM
14DE10A9D5	10	MAWFA-1-AA	G0L040465-9	20	TO9/AIR		0.50000	SAM
14DE10A9D5	11	MAWFD-1-AA	G0L040465-10	20	TO9/AIR		0.50000	SAM
14DE10A9D5	12	MAXT5-1-AD	G0L040465-9DCS	20	TO9/AIR		0.50000	SAM
14DE10A9D5	13	MAXT5-1-AA	G0L040465-9MB	20	TO9/AIR		0.50000	SAM
14DE10A9D5	14	ST1214F	CS-3 10DXN505				1.00000	
14DE10A9D5	15						1.00000	
14DE10A9D5	16						1.00000	
14DE10A9D5	17						1.00000	
14DE10A9D5	18						1.00000	
14DE10A9D5	19		AS 12-14-10				1.00000	

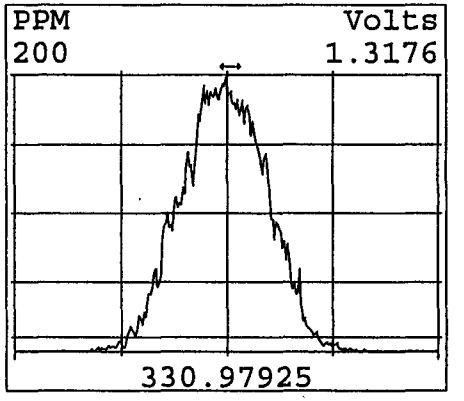
Logfile v1d 12/15/10 kss

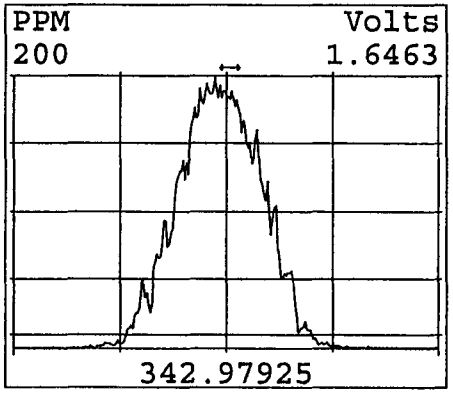
Peak Locate Examination:14-DEC-2010:14:48 File:14DE10A9D5
Experiment:DIOXINRES Function:1 Reference:PFK

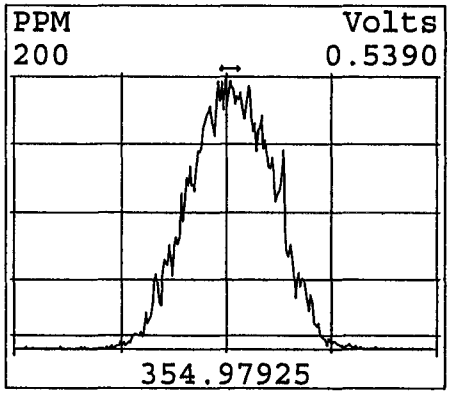


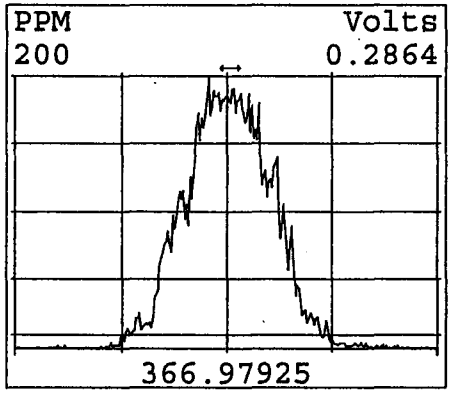


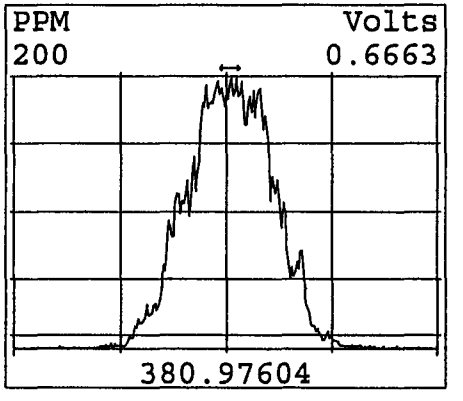


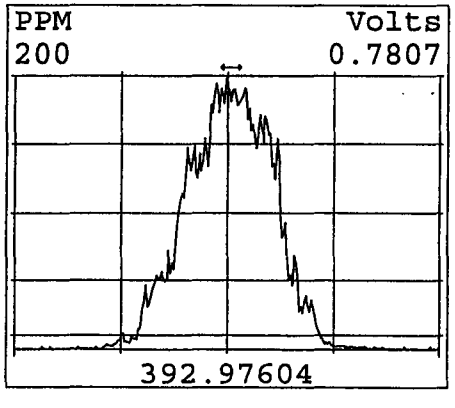


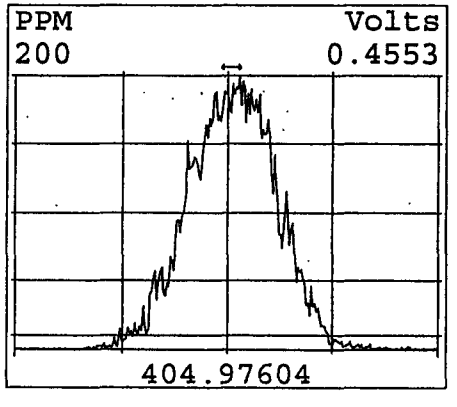


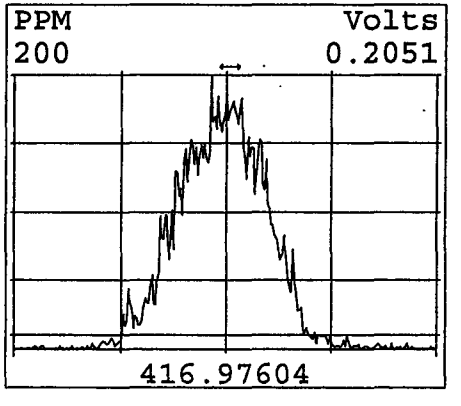




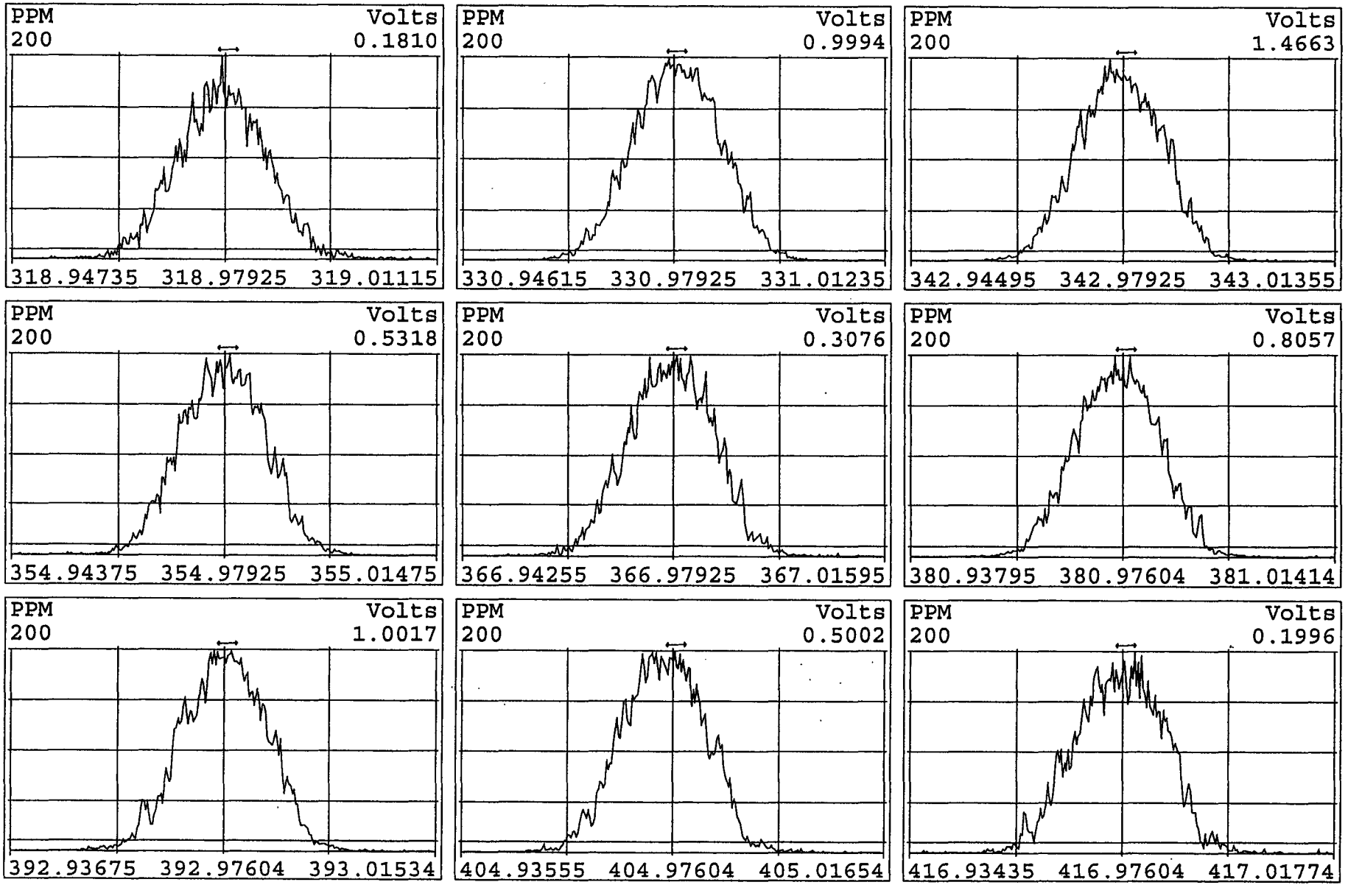




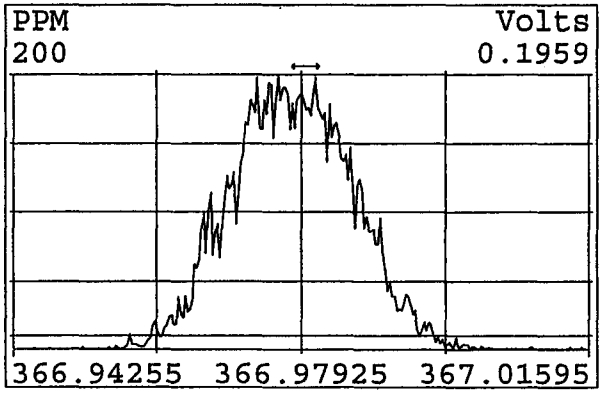


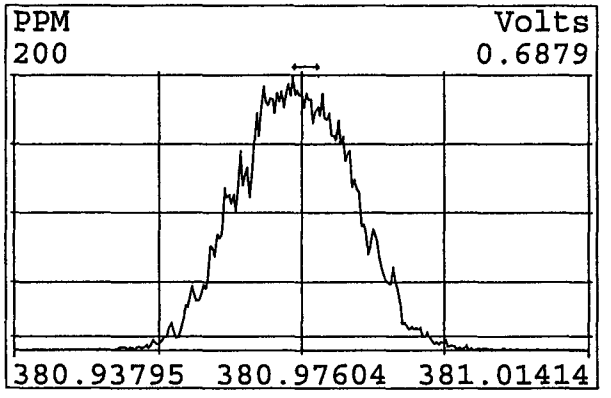


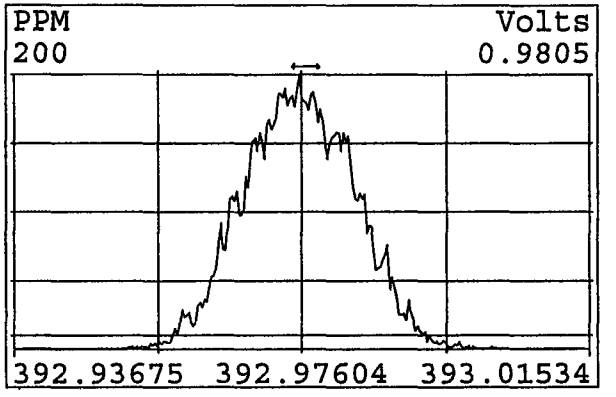
Peak Locate Examination:14-DEC-2010:14:48 File:14DE10A9D5
Experiment:DIOXINRES Function:2 Reference:PFK

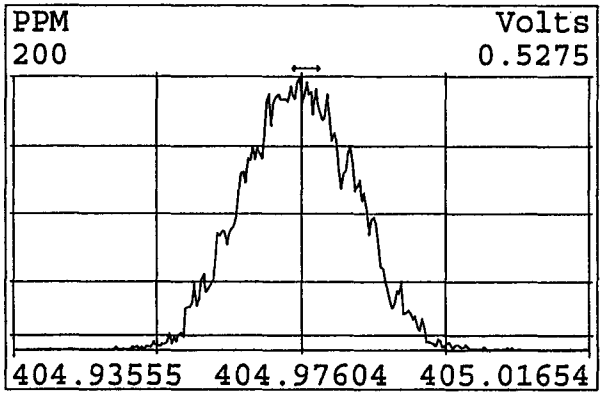


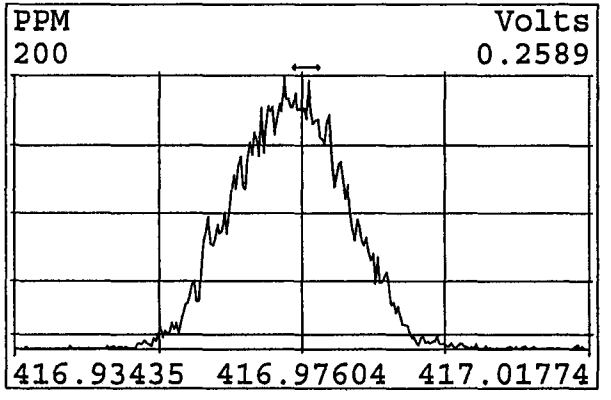
Peak Locate Examination:14-DEC-2010:14:49 File:14DE10A9D5
Experiment:DIOXINRES Function:3 Reference:PFK

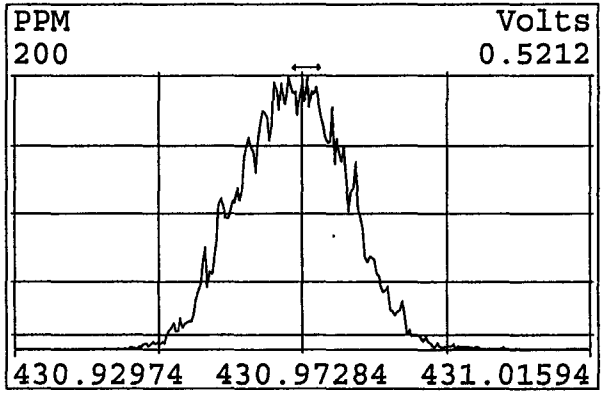


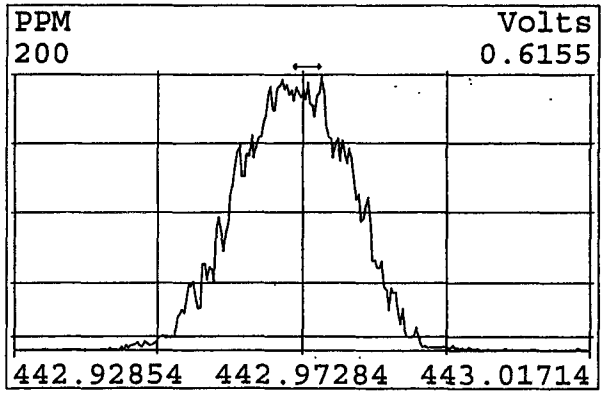


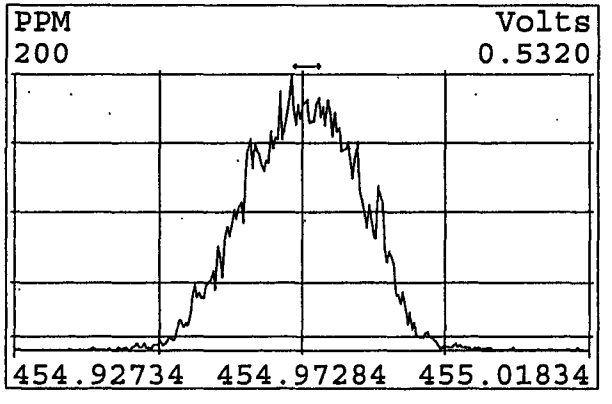




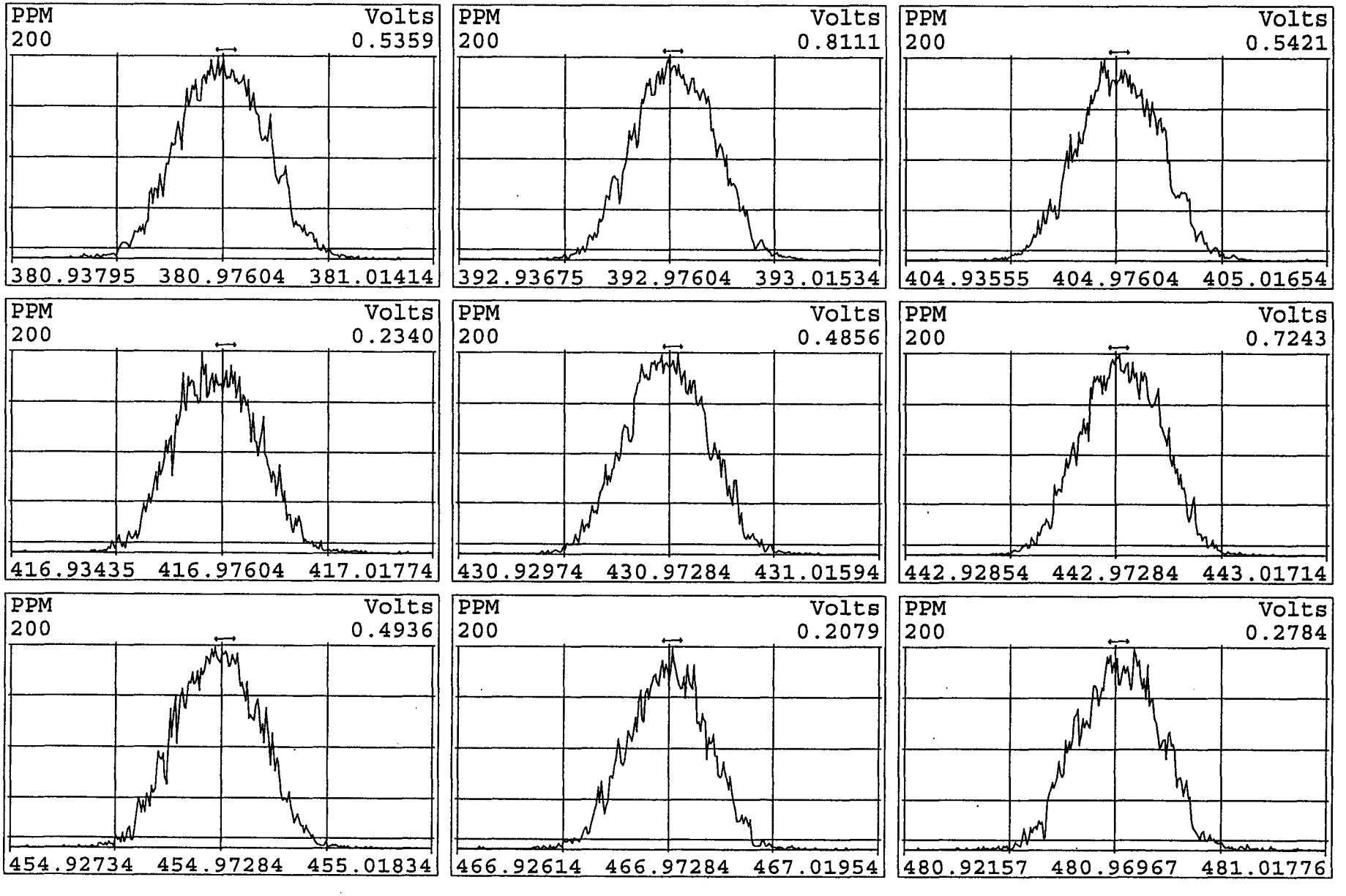




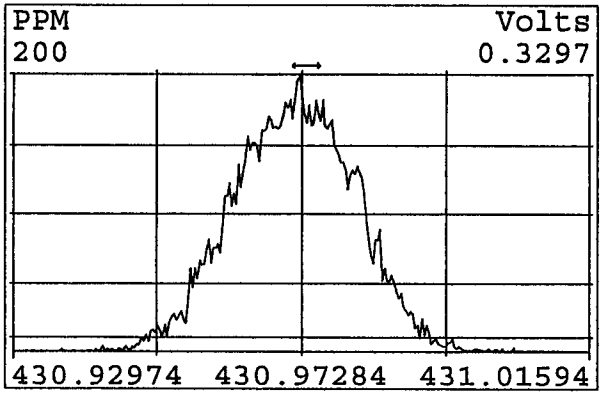


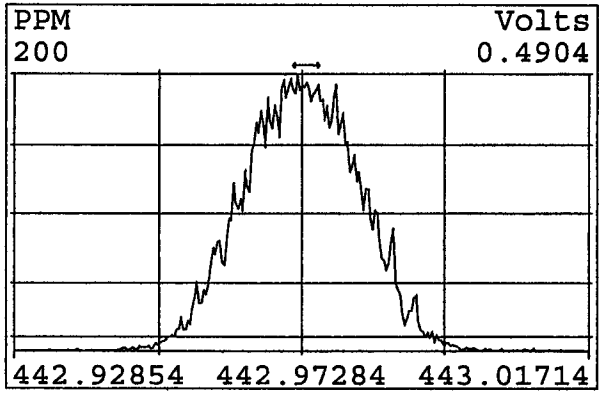


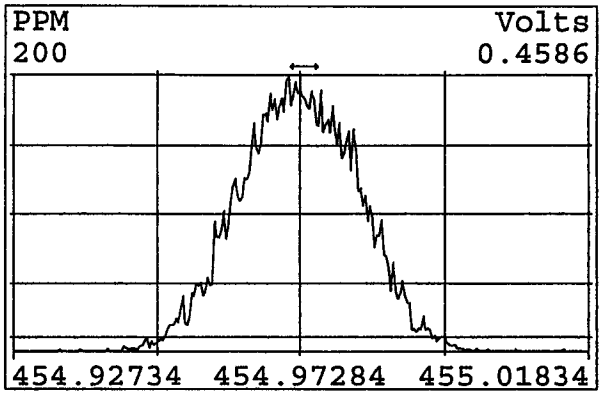
Peak Locate Examination:14-DEC-2010:14:49 File:14DE10A9D5
Experiment:DIOXINRES Function:4 Reference:PFK

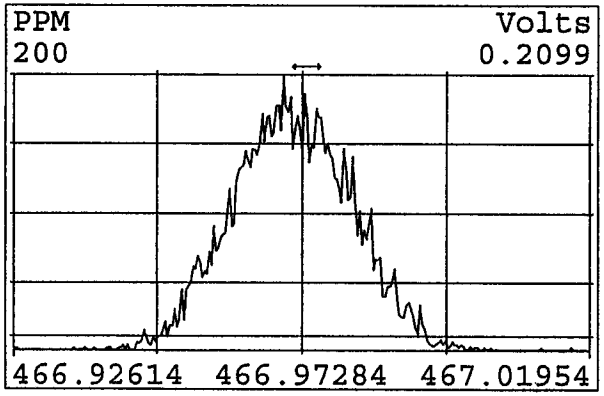


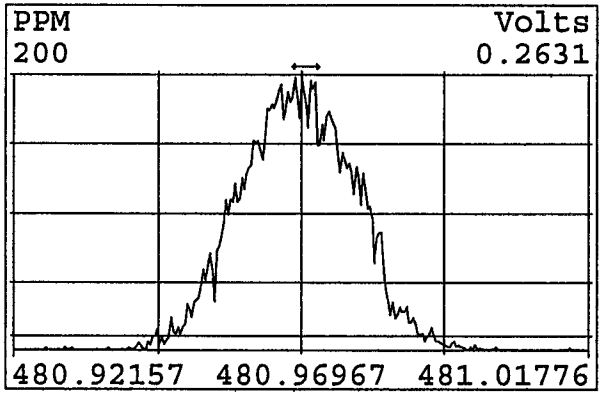
Peak Locate Examination:14-DEC-2010:14:49 File:14DE10A9D5
Experiment:DIOXINRES Function:5 Reference:PFK

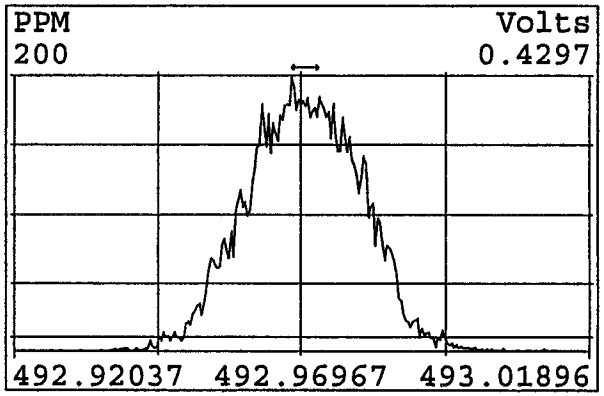


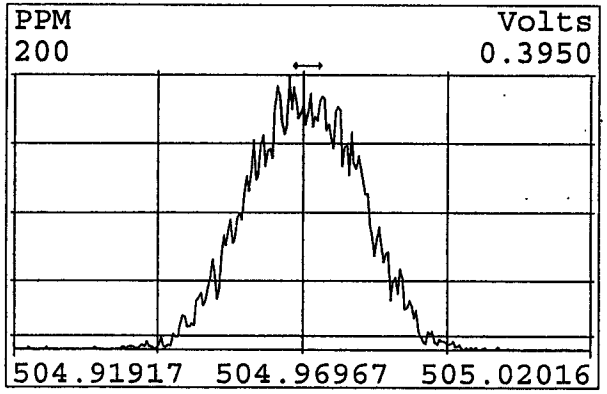


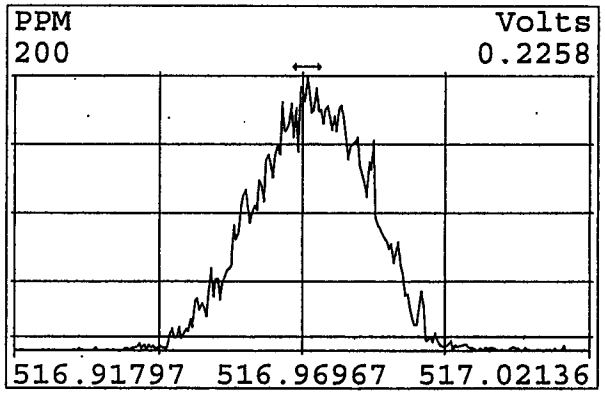




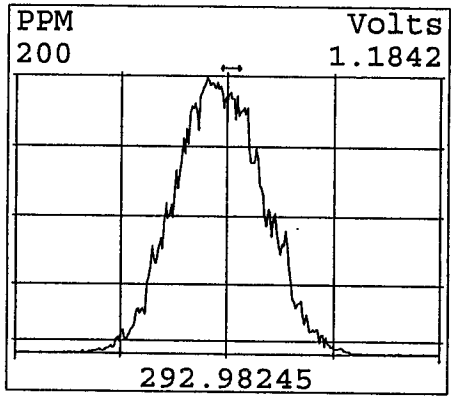


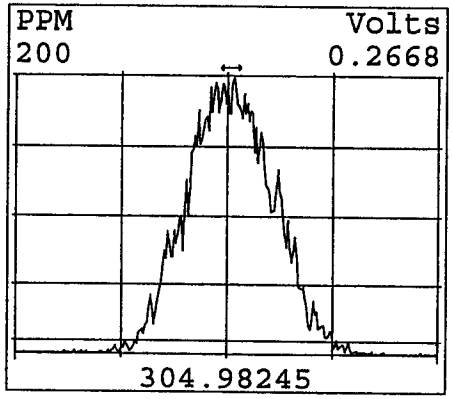


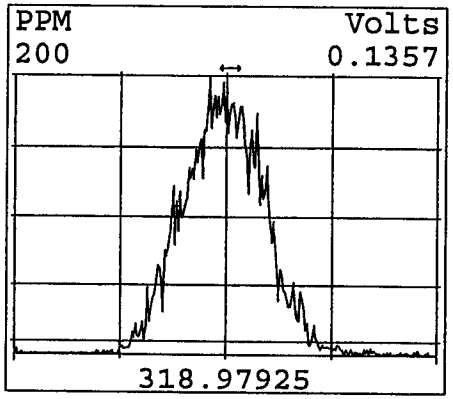


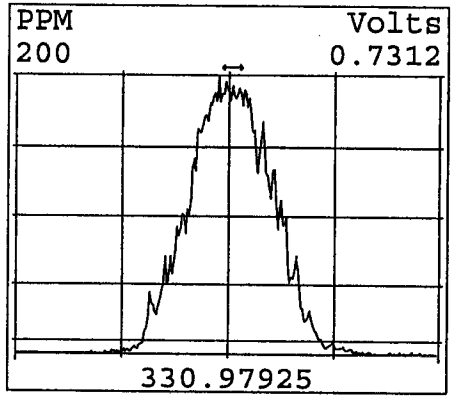


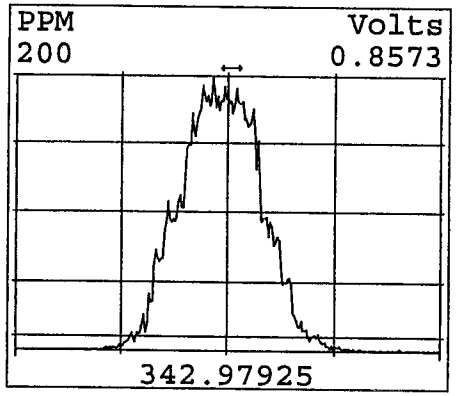
Peak Locate Examination:15-DEC-2010:02:07 File:RESCHECK9D5
Experiment:DIOXINRES Function:1 Reference:PFK

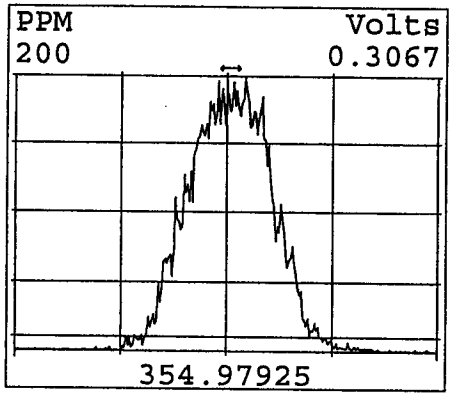


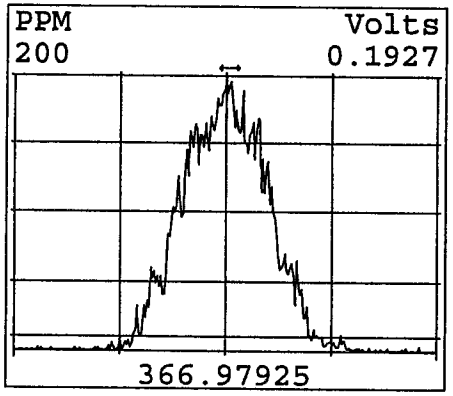


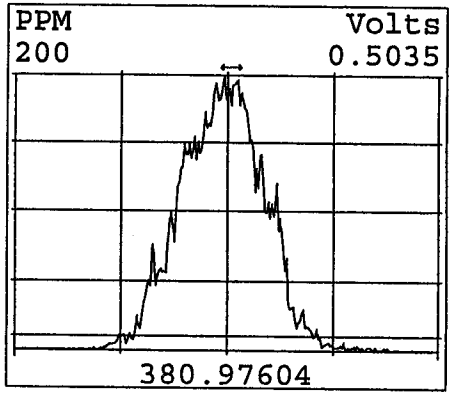


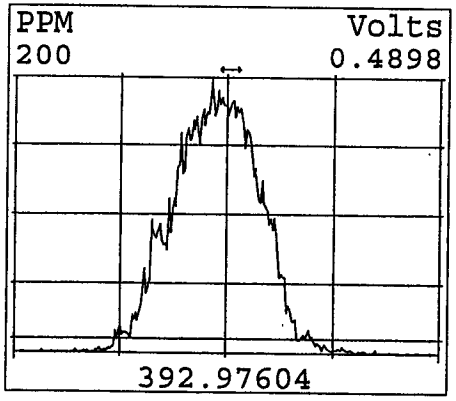


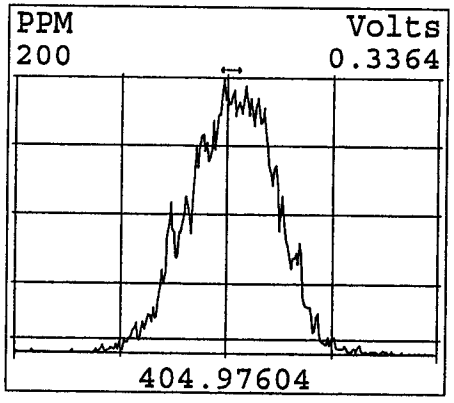


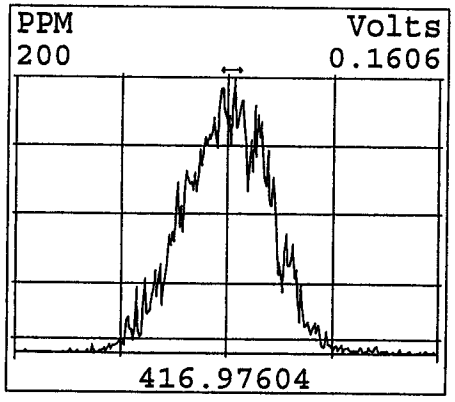




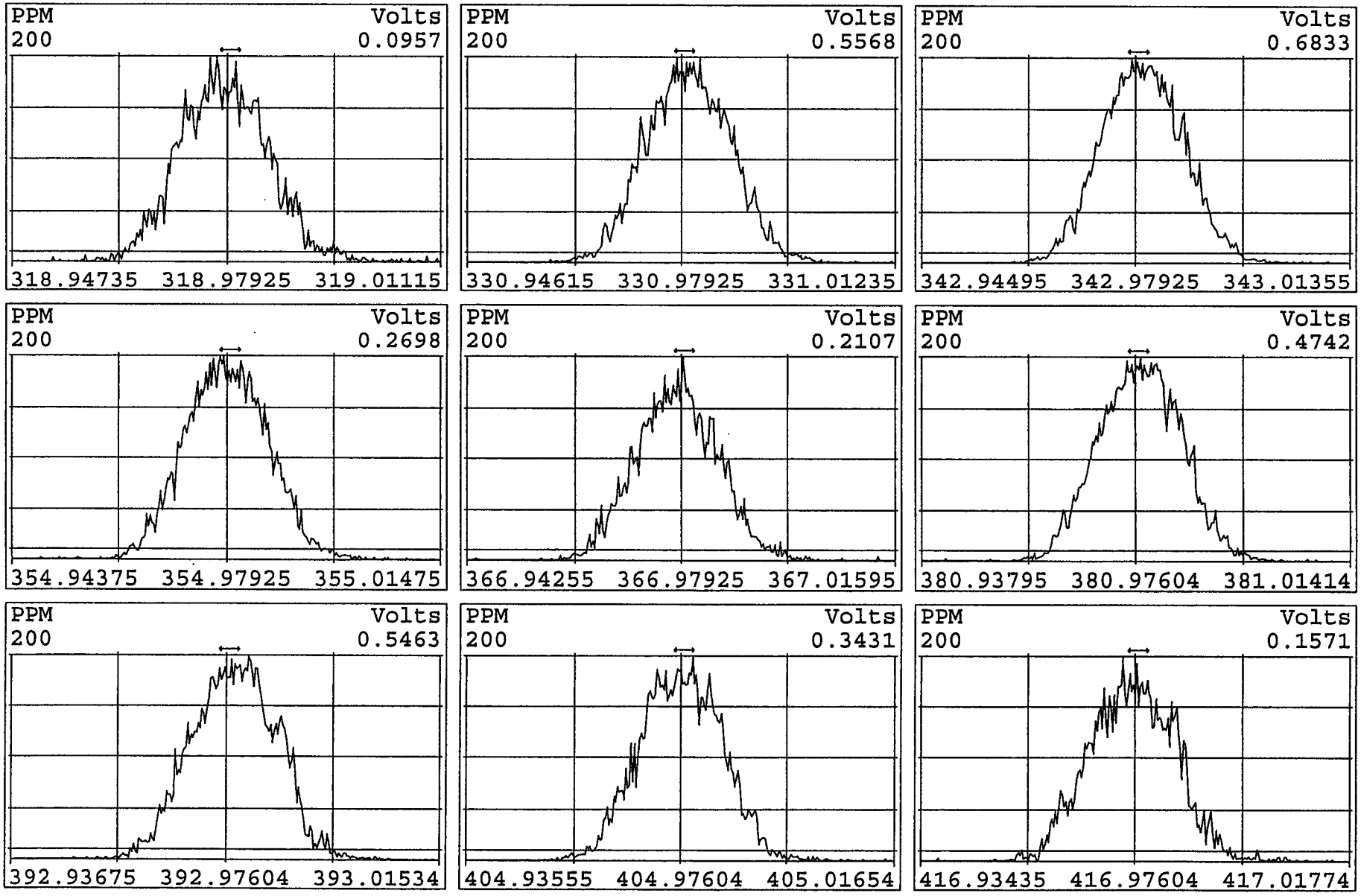




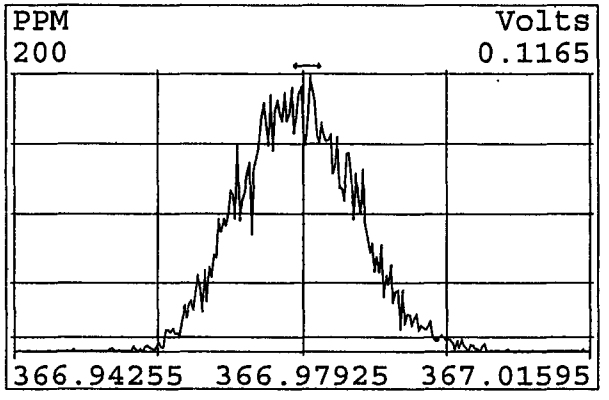


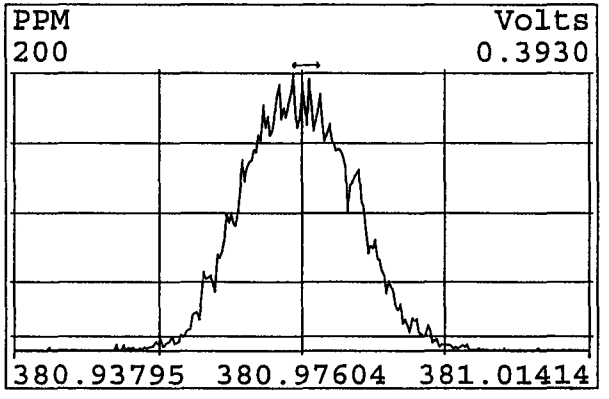


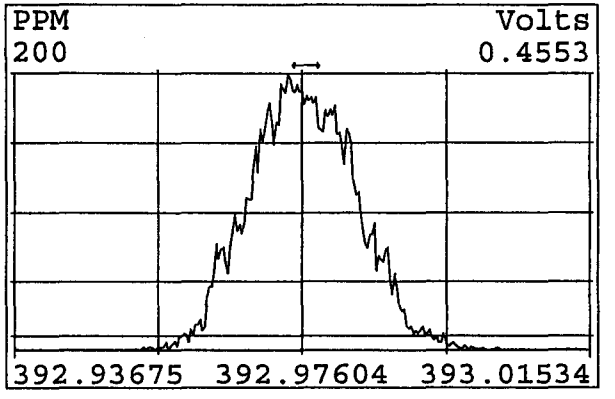
Peak Locate Examination:15-DEC-2010:02:08 File:RESCHECK9D5
Experiment:DIOXINRES Function:2 Reference:PFK

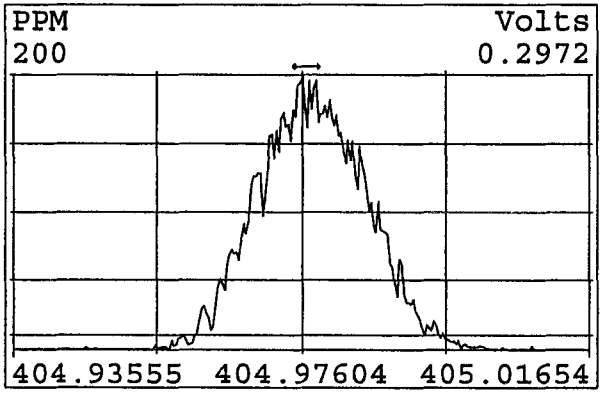


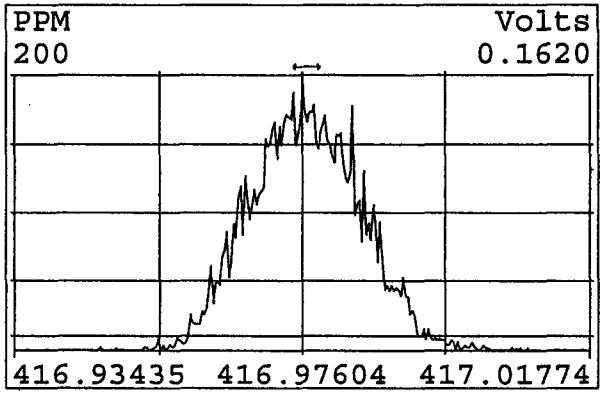
Peak Locate Examination:15-DEC-2010:02:09 File:RESCHECK9D5
Experiment:DIOXINRES Function:3 Reference:PFK

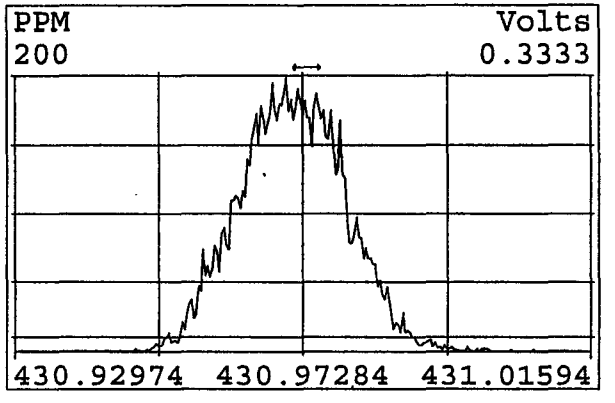


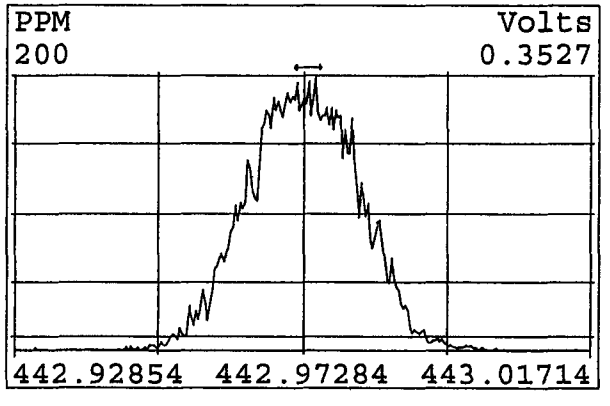


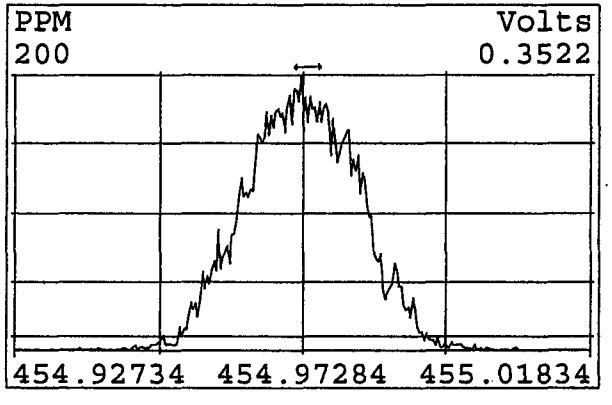




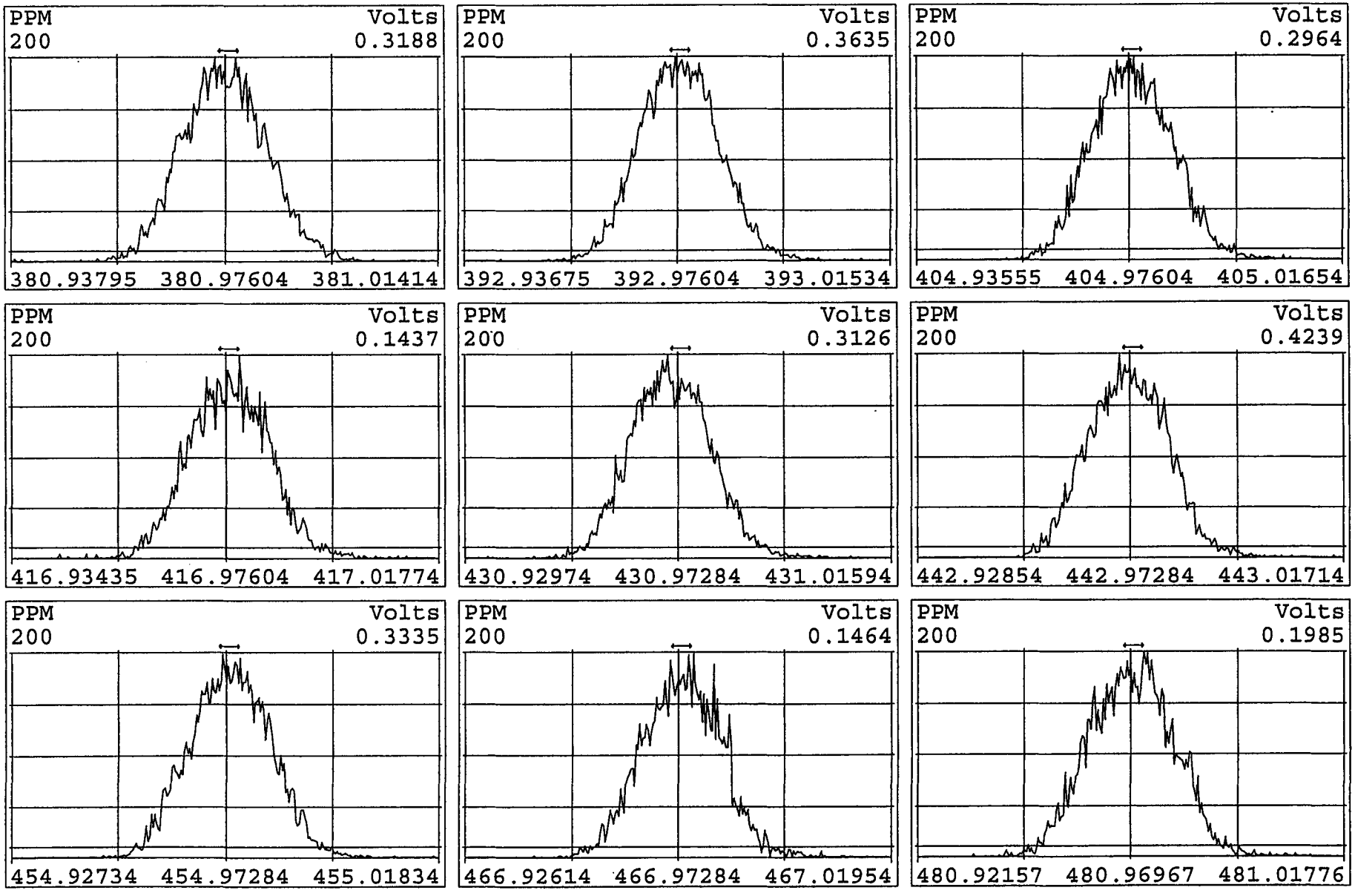




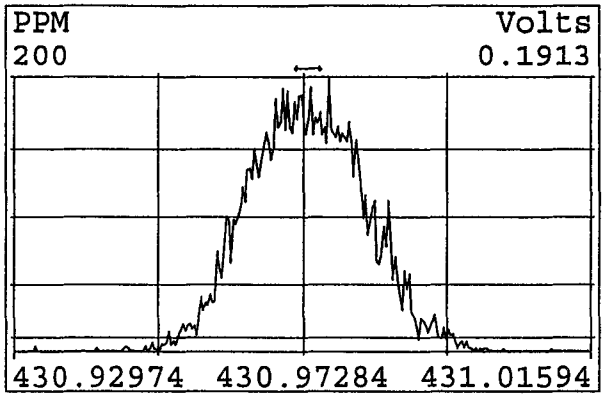


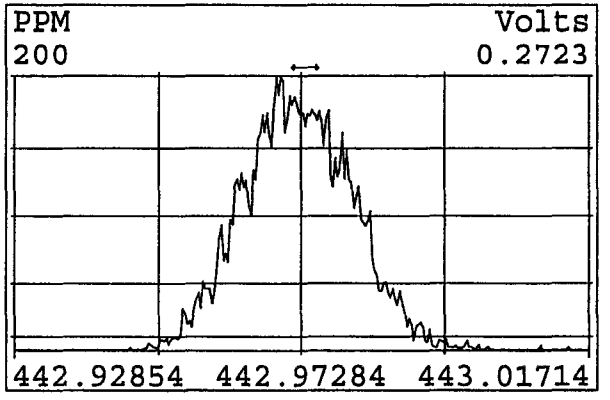


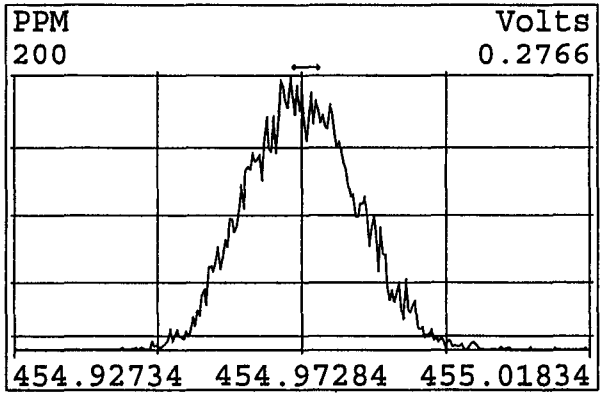
Peak Locate Examination:15-DEC-2010:02:10 File:RESCHECK9D5
Experiment:DIOXINRES Function:4 Reference:PFK

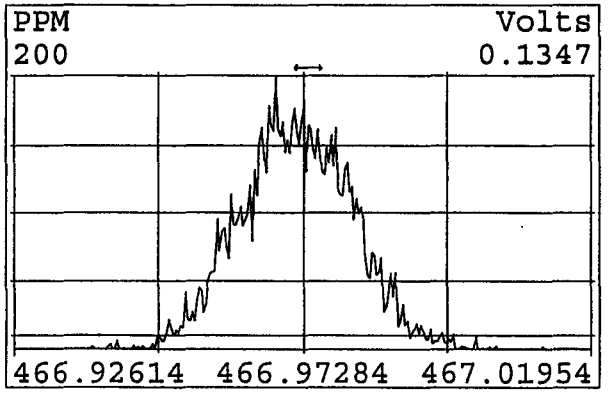


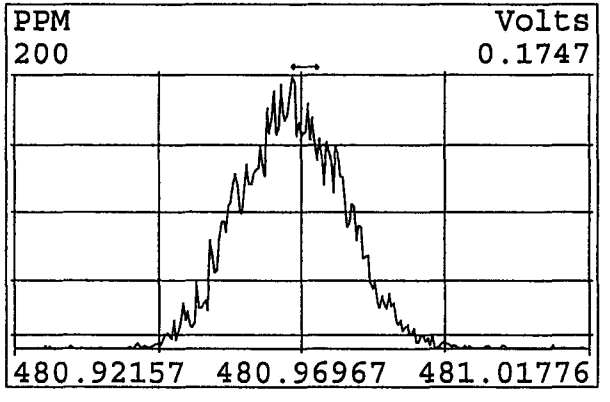
Peak Locate Examination:15-DEC-2010:02:11 File:RESCHECK9D5
Experiment:DIOXINRES Function:5 Reference:PFK

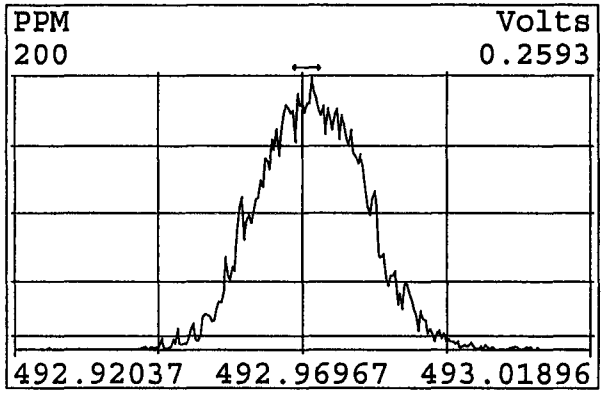


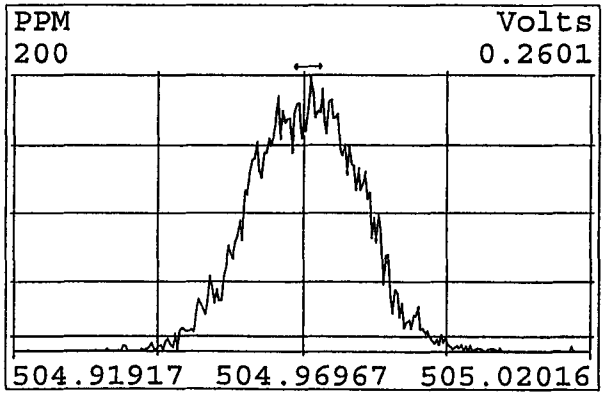


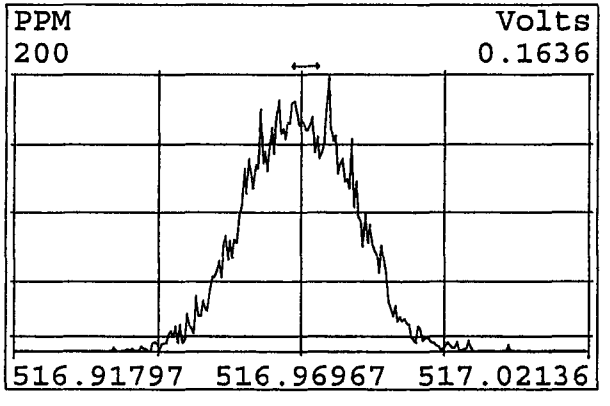


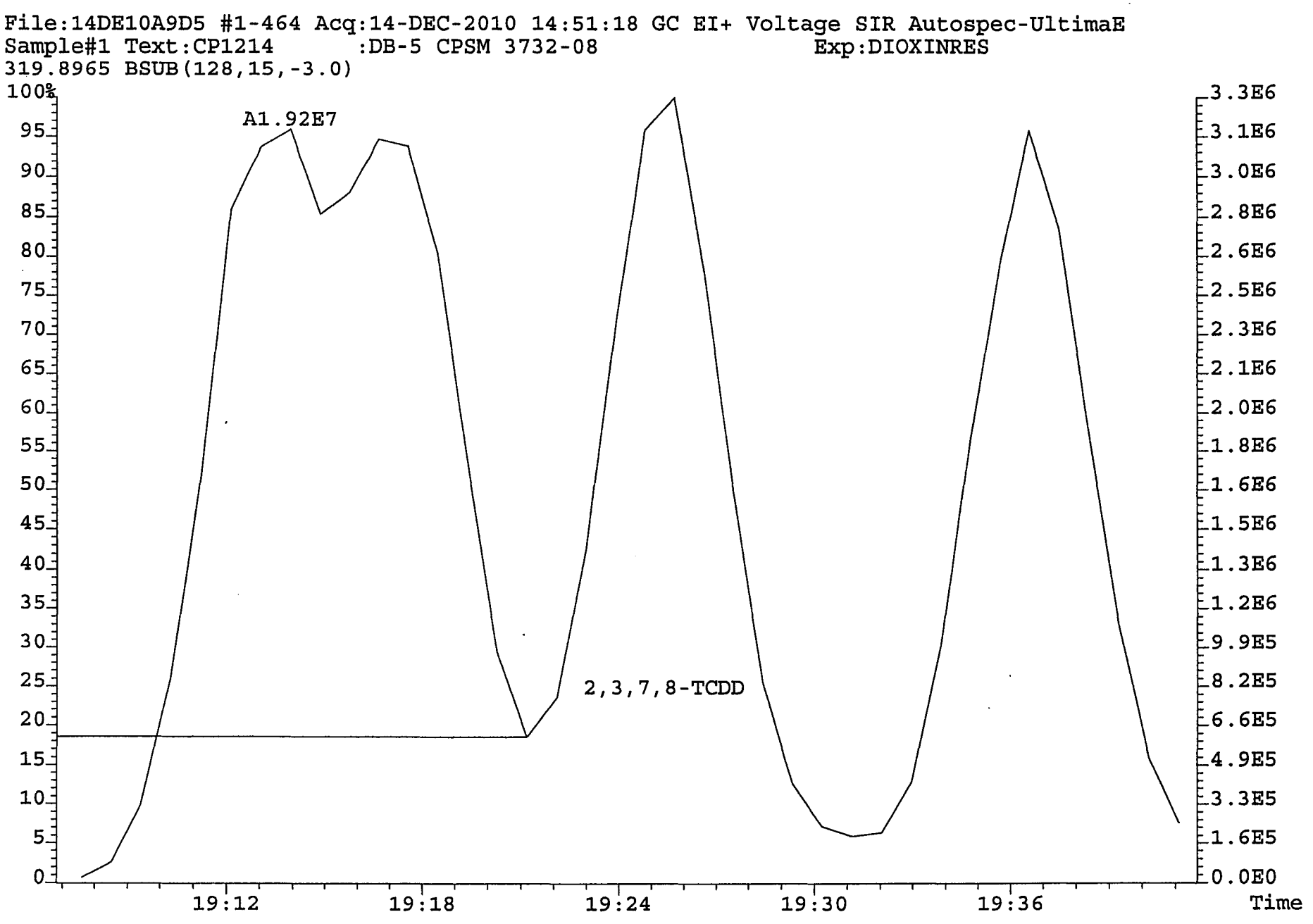











File:14DE10A9D5 #1-464 Acq:14-DEC-2010 14:51:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1214 :DB-5 CPSM 3732-08 Exp:DIOXINRES
319.8965 BSUB(128,15,-3.0)
A1.92E7
2,3,7,8-TCDD
100%
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
3.3E6
3.1E6
3.0E6
2.8E6
2.6E6
2.5E6
2.3E6
2.1E6
2.0E6
1.8E6
1.6E6
1.5E6
1.3E6
1.2E6
9.9E5
8.2E5
6.6E5
4.9E5
3.3E5
1.6E5
0.0E0
19:12
19:18
19:24
19:30
19:36
Time

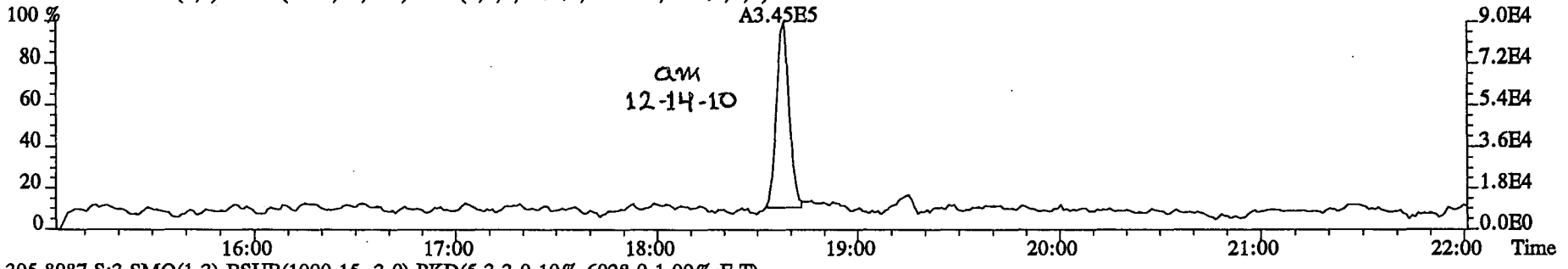
Run text: ST1214E Sample text: ST1214E :2nd Source 10DXN340
Run #6 Filename: 14DE10A9D5 S: 8 I: 1 Results: 14DE10A9D51613
Acquired: 14-DEC-10 20:05:36 Processed: 14-DEC-10 21:04:05
Run: 14DE10A9D5 Analyte: 1613 Cal: 16131214109D5
Factor 1: 800.000 Factor 2: 20.000 Sample size: 1.000000

AS 12-15-10

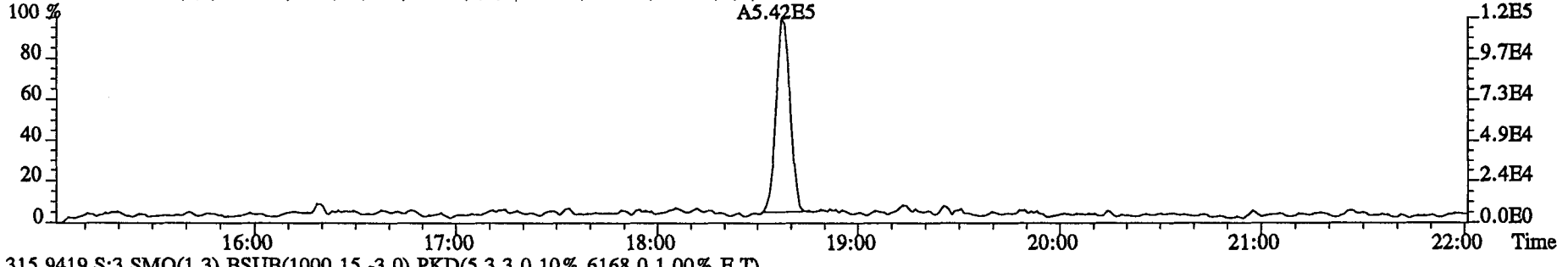
Name	Resp	RA		RT	RRF	Conc		EDL	Rec	M
13C-1,2,3,4-TCDD	160439400	0.77	y	19:13	-	101.67		-	-	n
13C-2,3,7,8-TCDF	175349000	0.79	y	18:37	1.11	1962.23		1.95	98.1	n
2,3,7,8-TCDF	14760570	0.74	y	18:38	0.88	190.68	95.34%	4.36	-	n
Total TCDF	14760570	0.74	y	18:38	0.88	190.68		4.36	-	n
13C-2,3,7,8-TCDD	159187500	0.77	y	19:24	0.97	2041.60		4.79	102.1	n
2,3,7,8-TCDD	12989870	0.79	y	19:26	0.87	187.25	93.62%	2.03	-	n
Total TCDD	13086881	2.58	n	18:37	0.87	188.65		2.03	-	n
37Cl-2,3,7,8-TCDD	35342400	1.00	y	19:26	1.19	370.29		1.19	92.6	n
13C-1,2,3,7,8-PeCDF	148490200	1.50	y	24:17	0.92	2009.78		2.19	100.5	n
1,2,3,7,8-PeCDF	37333600	1.54	y	24:18	1.06	472.33	94.47%	3.41	-	n
13C-2,3,4,7,8-PeCDF	139992900	1.49	y	25:46	0.91	1923.36		2.22	96.2	n
2,3,4,7,8-PeCDF	35727200	1.56	y	25:48	1.04	489.09	97.82%	4.14	-	n
Total F2 PeCDF	73499719	1.54	y	24:18	1.05	967.20		3.77	-	n
Total F1 PeCDF	204576	2.25	n	19:13	1.05	2.69		2.90	-	n
13C-1,2,3,7,8-PeCDD	132921000	1.54	y	26:36	0.83	1997.79		1.33	99.9	n
1,2,3,7,8-PeCDD	24840900	1.48	y	26:38	0.79	471.28	94.26%	2.43	-	n
Total PeCDD	24985543	5.52	n	24:17	0.79	474.03		2.43	-	n
13C-1,2,3,7,8,9-HxCDD	103958700	1.31	y	32:49	-	101.30		-	-	n
13C-1,2,3,4,7,8-HxCDF	107082500	0.51	y	31:40	1.07	1921.46		1.76	96.1	n
1,2,3,4,7,8-HxCDF	27876600	1.18	y	31:41	1.06	489.90	97.98%.	2.98	-	n
13C-1,2,3,6,7,8-HxCDF	122816600	0.51	y	31:47	1.20	1961.34		1.57	98.1	n
1,2,3,6,7,8-HxCDF	29904400	1.20	y	31:48	1.00	488.14	97.63%.	2.93	-	n
13C-2,3,4,6,7,8-HxCDF	118190600	0.51	y	32:21	1.12	2025.67		1.69	101.3	n
2,3,4,6,7,8-HxCDF	27900500	1.20	y	32:22	1.00	471.89	94.38%	2.70	-	n
13C-1,2,3,7,8,9-HxCDF	109426000	0.50	y	32:59	1.04	2029.60		1.82	101.5	n
1,2,3,7,8,9-HxCDF	25983900	1.18	y	33:00	0.98	482.61	96.52%.	2.83	-	n
Total HxCDF	111665400	1.18	y	31:41	1.01	1932.55		2.86	-	n
13C-1,2,3,4,7,8-HxCDD	97817400	1.31	y	32:29	0.88	2133.20		4.31	106.7	n
1,2,3,4,7,8-HxCDD	24116100	1.31	y	32:30	1.12	440.08	88%	0.92	-	n
13C-1,2,3,6,7,8-HxCDD	87720900	1.32	y	32:33	0.89	1900.41		4.28	95.0	n
1,2,3,6,7,8-HxCDD	24279700	1.08	y	32:34	1.16	477.48	95.5%	0.96	-	n
1,2,3,7,8,9-HxCDD	26733900	1.20	y	32:50	1.21	478.27	95.65%.	0.89	-	n
Total HxCDD	75241420	3.59	n	31:40	1.16	1397.90		0.92	-	n
13C-1,2,3,4,6,7,8-HpCDF	102868800	0.43	y	34:18	0.95	2087.41		2.21	104.4	n
1,2,3,4,6,7,8-HpCDF	34742300	1.02	y	34:19	1.44	470.63	94.13%	1.68	-	n
13C-1,2,3,4,7,8,9-HpCDF	87971200	0.45	y	35:24	0.85	1981.15		2.45	99.1	n
1,2,3,4,7,8,9-HpCDF	29054000	1.02	y	35:24	1.36	484.85	96.97%.	2.21	-	n
Total HpCDF	64414435	1.02	y	34:19	1.40	964.74		1.92	-	n

13C-1,2,3,4,6,7,8-HpCDD	113394500	1.00	y	35:05	1.08	2028.69		3.76	101.4	n
1,2,3,4,6,7,8-HpCDD	24114600	1.03	y	35:06	0.90	475.06	95 %	1.19	-	n
Total HpCDD	24626113	3.07	n	34:18	0.90	485.13		1.19	-	n
13C-OCDD	142425600	0.85	y	37:31	0.69	3971.94		1.70	99.3	n
OCDF	40619900	0.89	y	37:38	1.18	966.77	96.68 %	1.17	-	n
OCDD	40153100	0.93	y	37:31	1.14	990.47	99 %	2.36	-	n

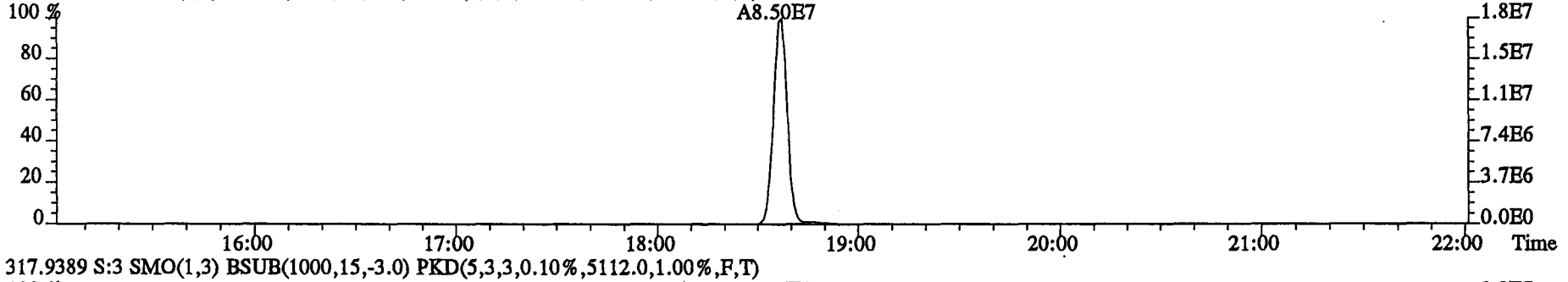
File:14DE10A9D5 #1-464 Acq:14-DEC-2010 16:23:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST1214 :CS-1 10DXN503 Exp:DIOXINRES
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11180.0,1.00%,F,T)



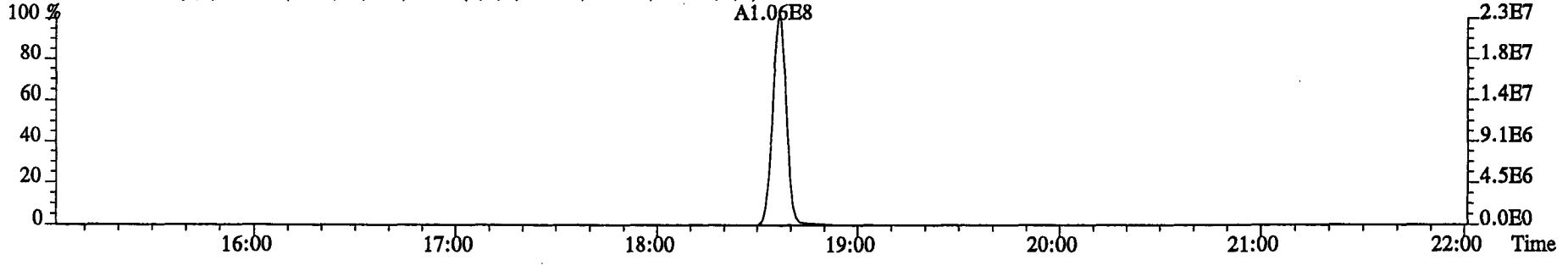
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6928.0,1.00%,F,T)



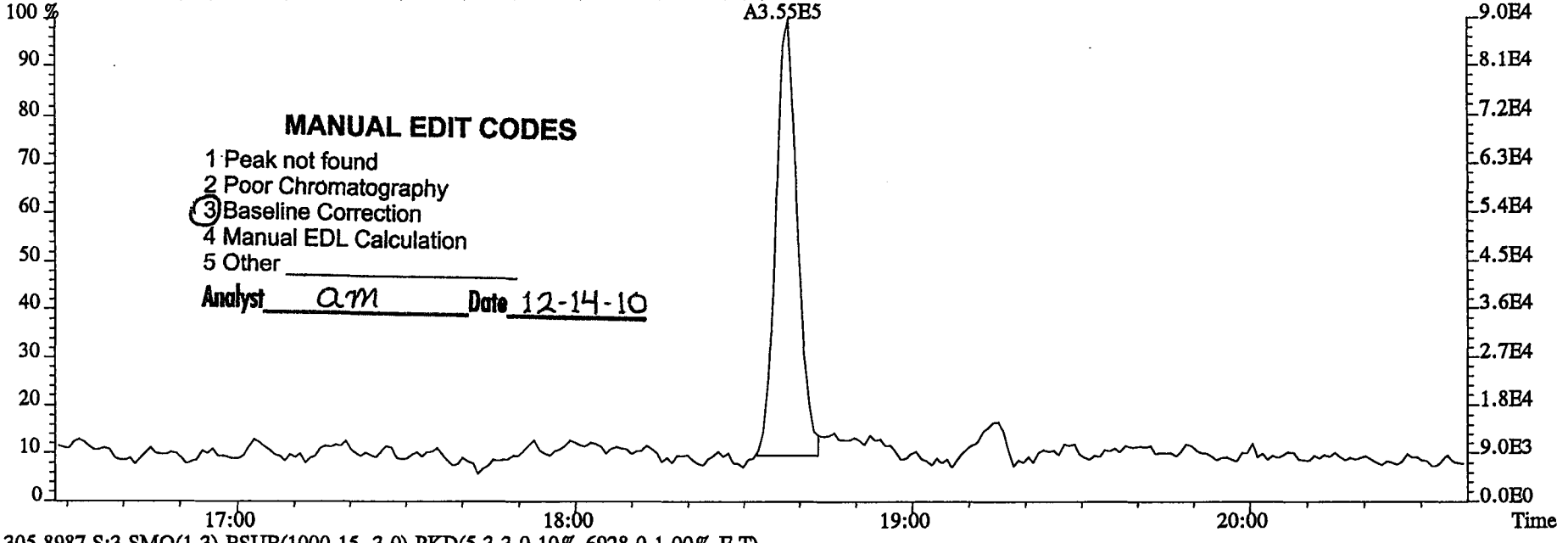
315.9419 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6168.0,1.00%,F,T)



317.9389 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5112.0,1.00%,F,T)



File:14DE10A9D5 #1-464 Acq:14-DEC-2010 16:23:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST1214 :CS-1 10DXN503 Exp:DIOXINRES
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11180.0,1.00%,F,T)

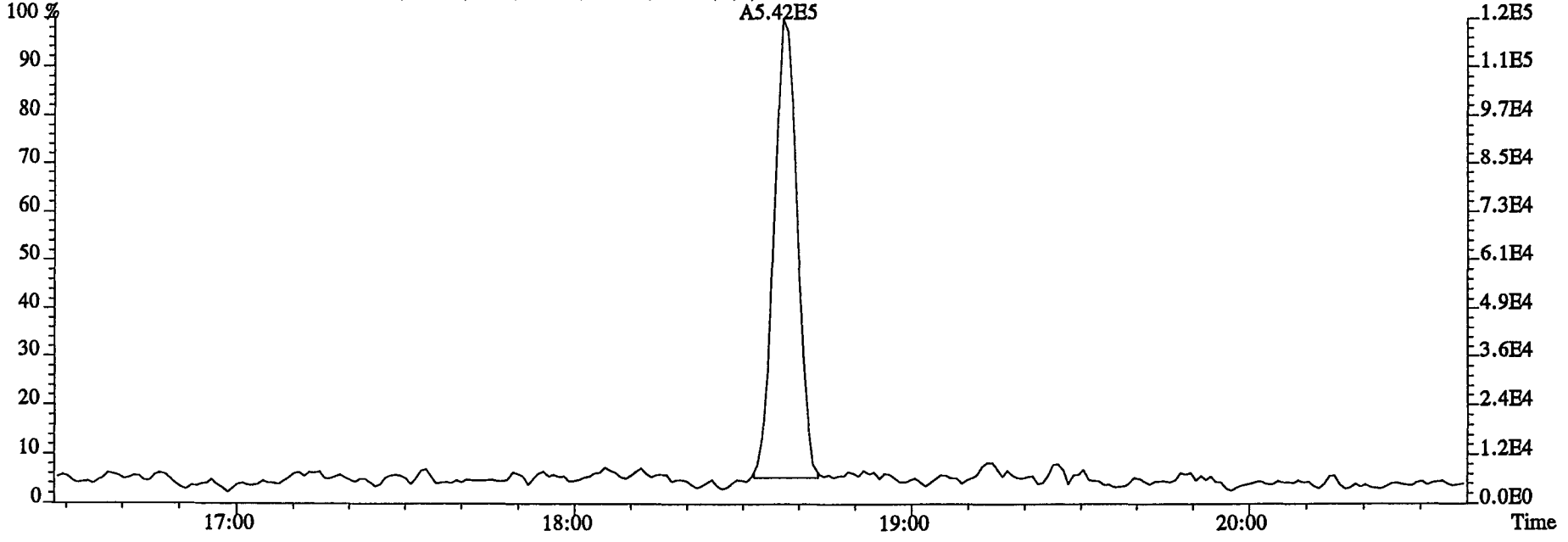


MANUAL EDIT CODES

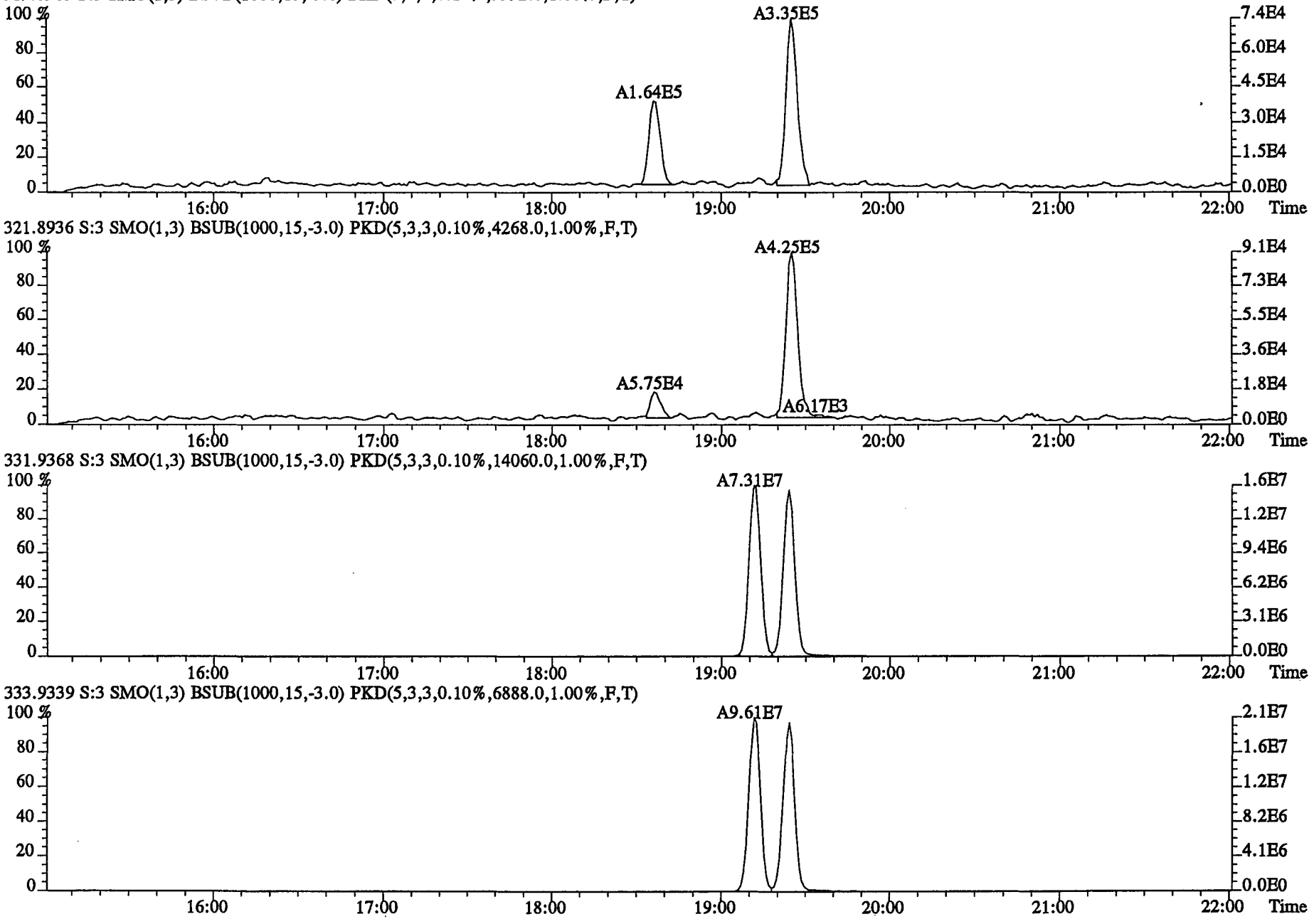
1 Peak not found
2 Poor Chromatography
(3) Baseline Correction
4 Manual EDL Calculation
5 Other _____

Analyst am Date 12-14-10

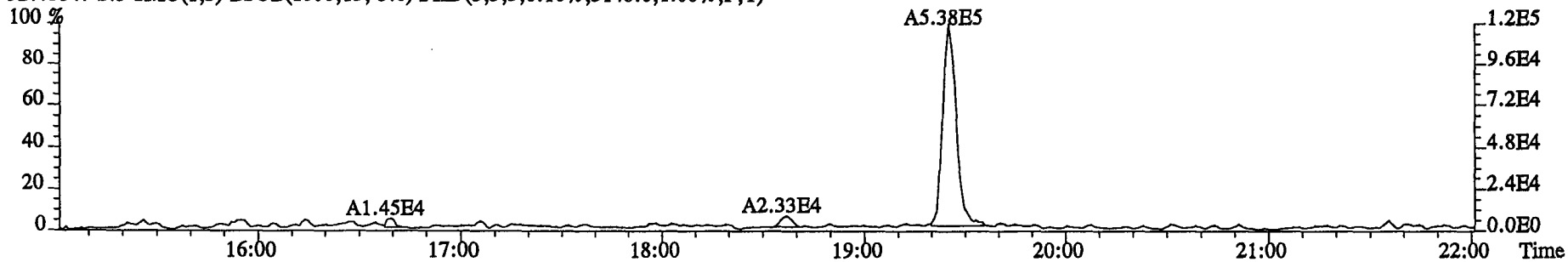
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6928.0,1.00%,F,T)



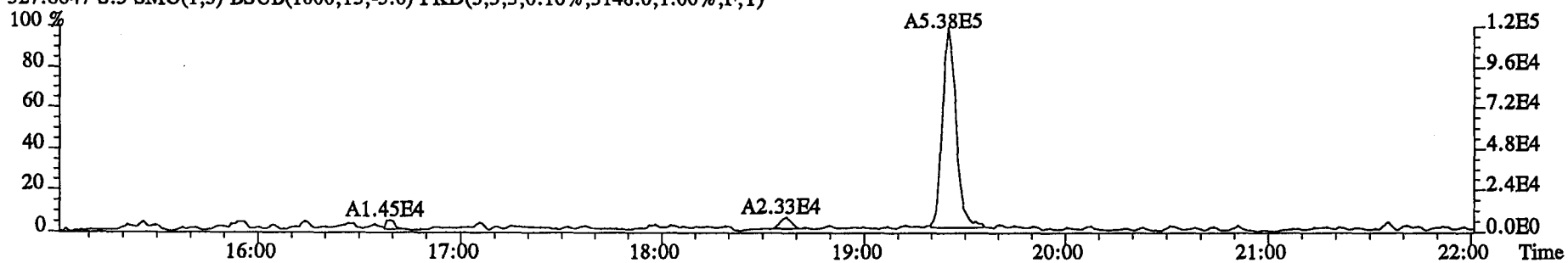
File:14DE10A9D5 #1-464 Acq:14-DEC-2010 16:23:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST1214 :CS-1 10DXN503 Exp:DIOXINRES



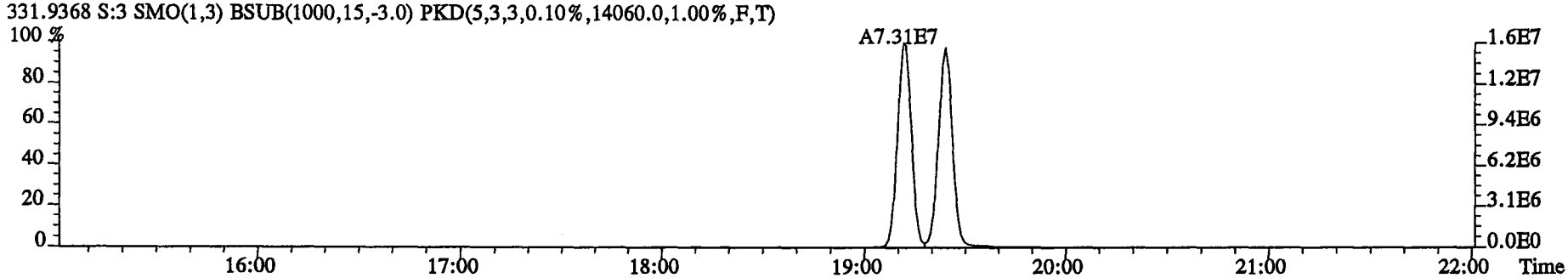
File:14DE10A9D5 #1-464 Acq:14-DEC-2010 16:23:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST1214 :CS-1 10DXN503 Exp:DIOXINRES
327.8847 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3148.0,1.00%,F,T)



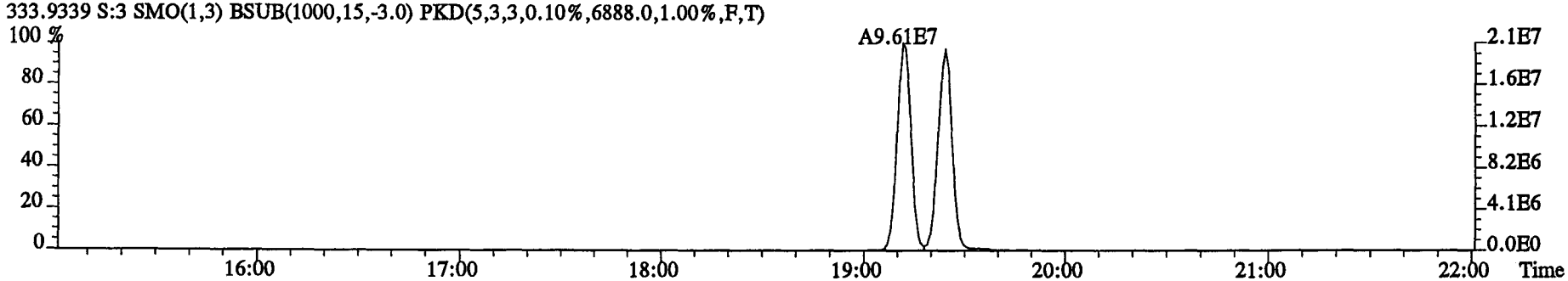
327.8847 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3148.0,1.00%,F,T)



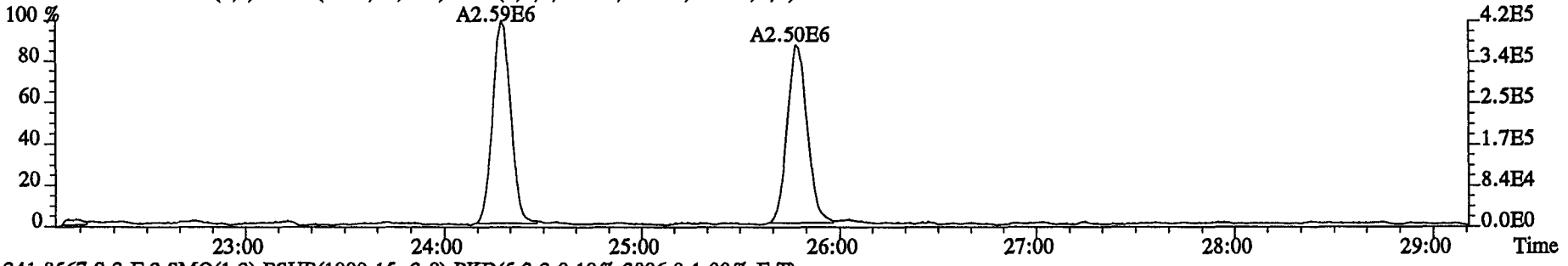
331.9368 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14060.0,1.00%,F,T)



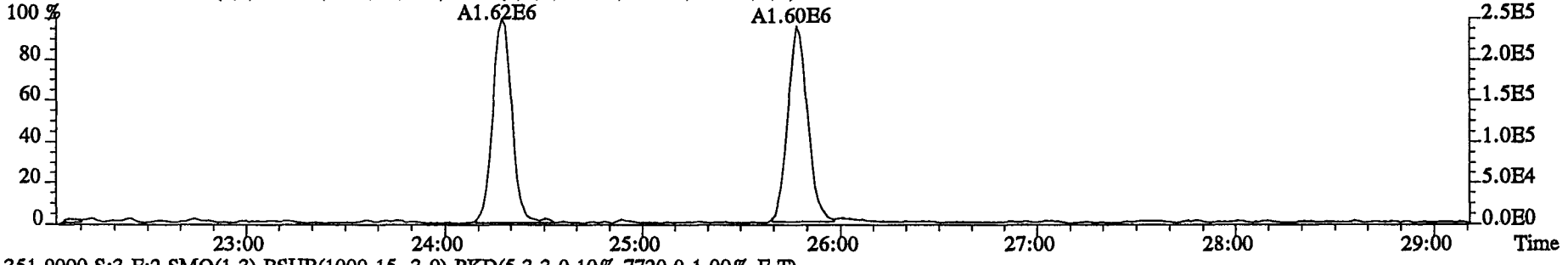
333.9339 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6888.0,1.00%,F,T)



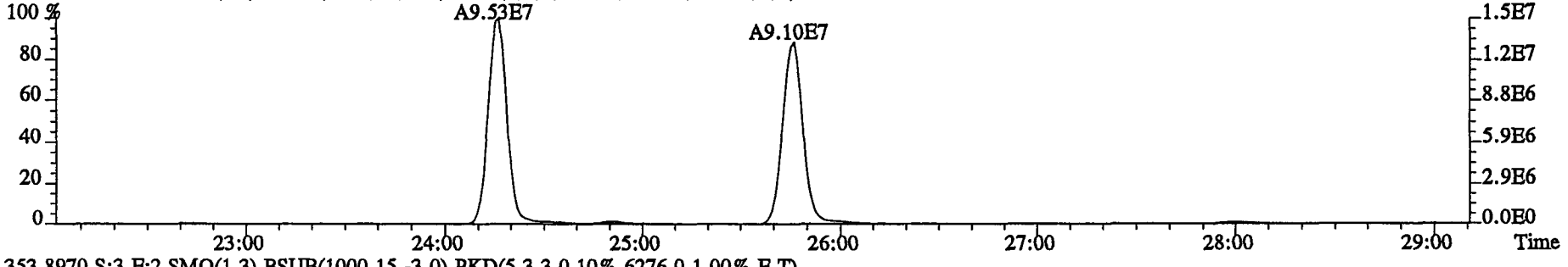
File:14DE10A9D5 #1-459 Acq:14-DEC-2010 16:23:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST1214 :CS-1 10DXN503 Exp:DIOXINRES
339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8928.0,1.00%,F,T)



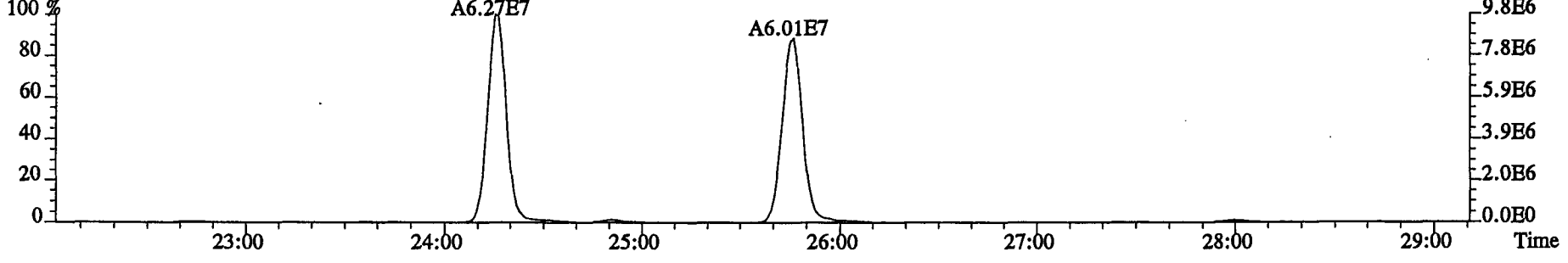
341.8567 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3896.0,1.00%,F,T)



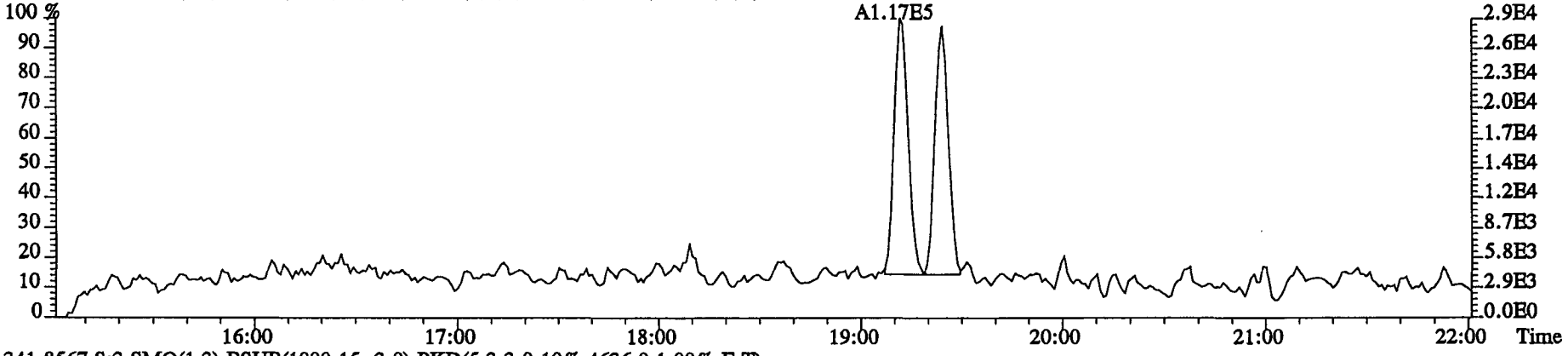
351.9000 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7720.0,1.00%,F,T)



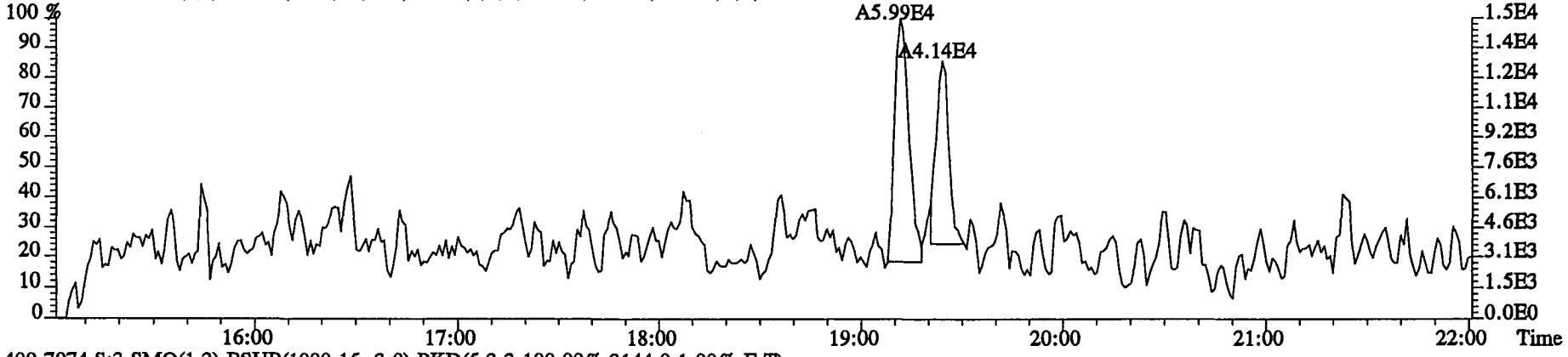
353.8970 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6276.0,1.00%,F,T)



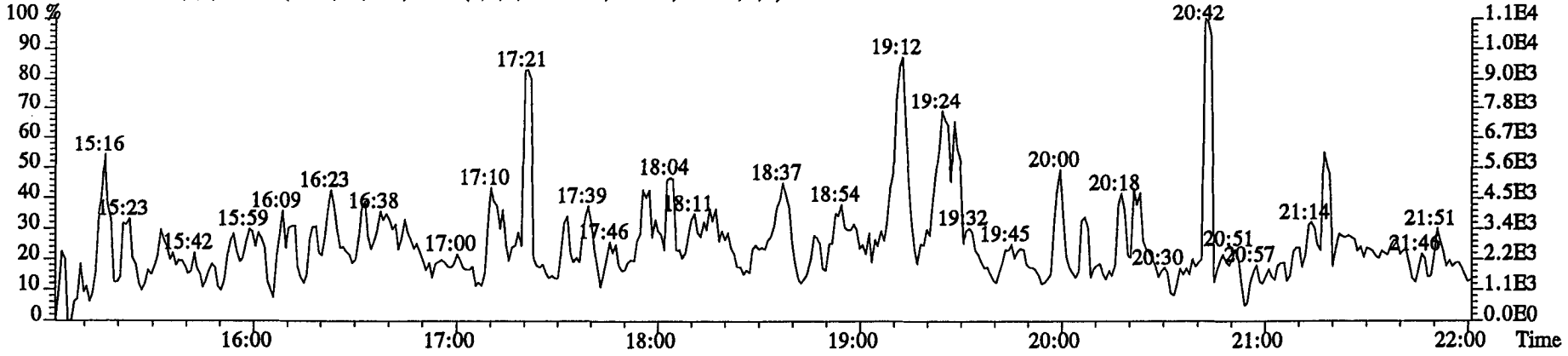
File:14DE10A9D5 #1-464 Acq:14-DEC-2010 16:23:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST1214 :CS-1 10DXN503 Exp:DIOXINRES
339.8597 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5084.0,1.00%,F,T)



341.8567 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4636.0,1.00%,F,T)

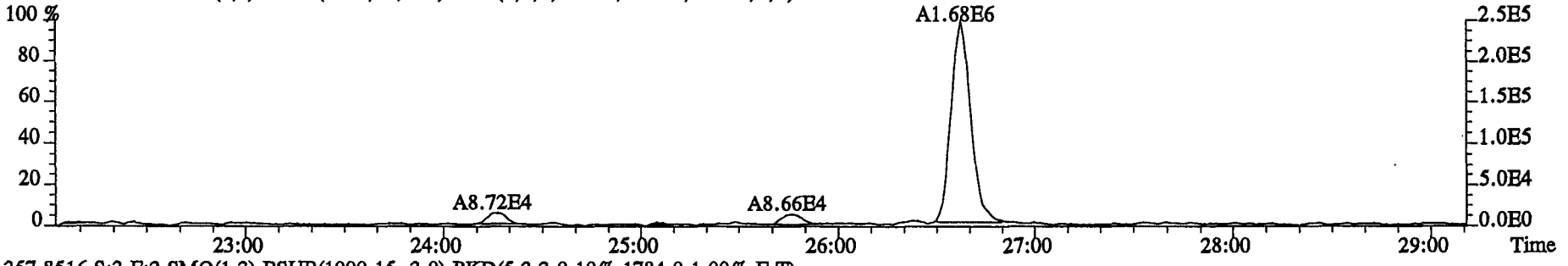


409.7974 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,3144.0,1.00%,F,T)

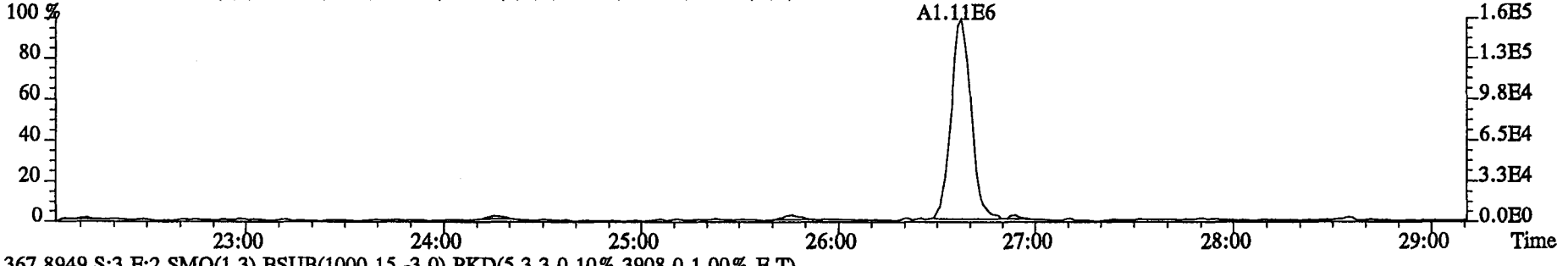


File:14DE10A9D5 #1-459 Acq:14-DEC-2010 16:23:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST1214 :CS-1 10DXN503 Exp:DIOXINRES

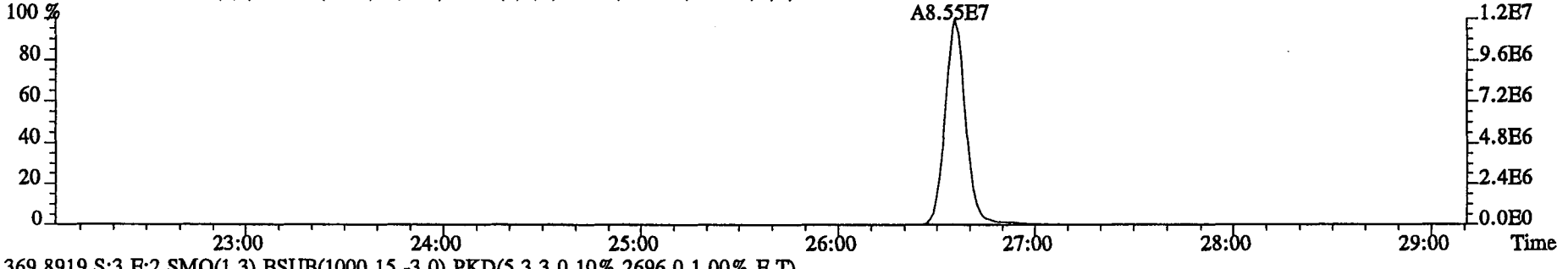
355.8546 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3236.0,1.00%,F,T)



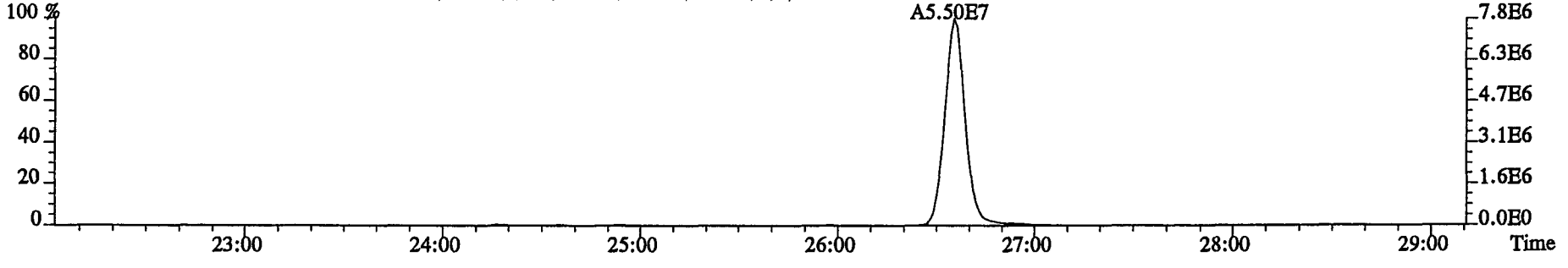
357.8516 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1784.0,1.00%,F,T)



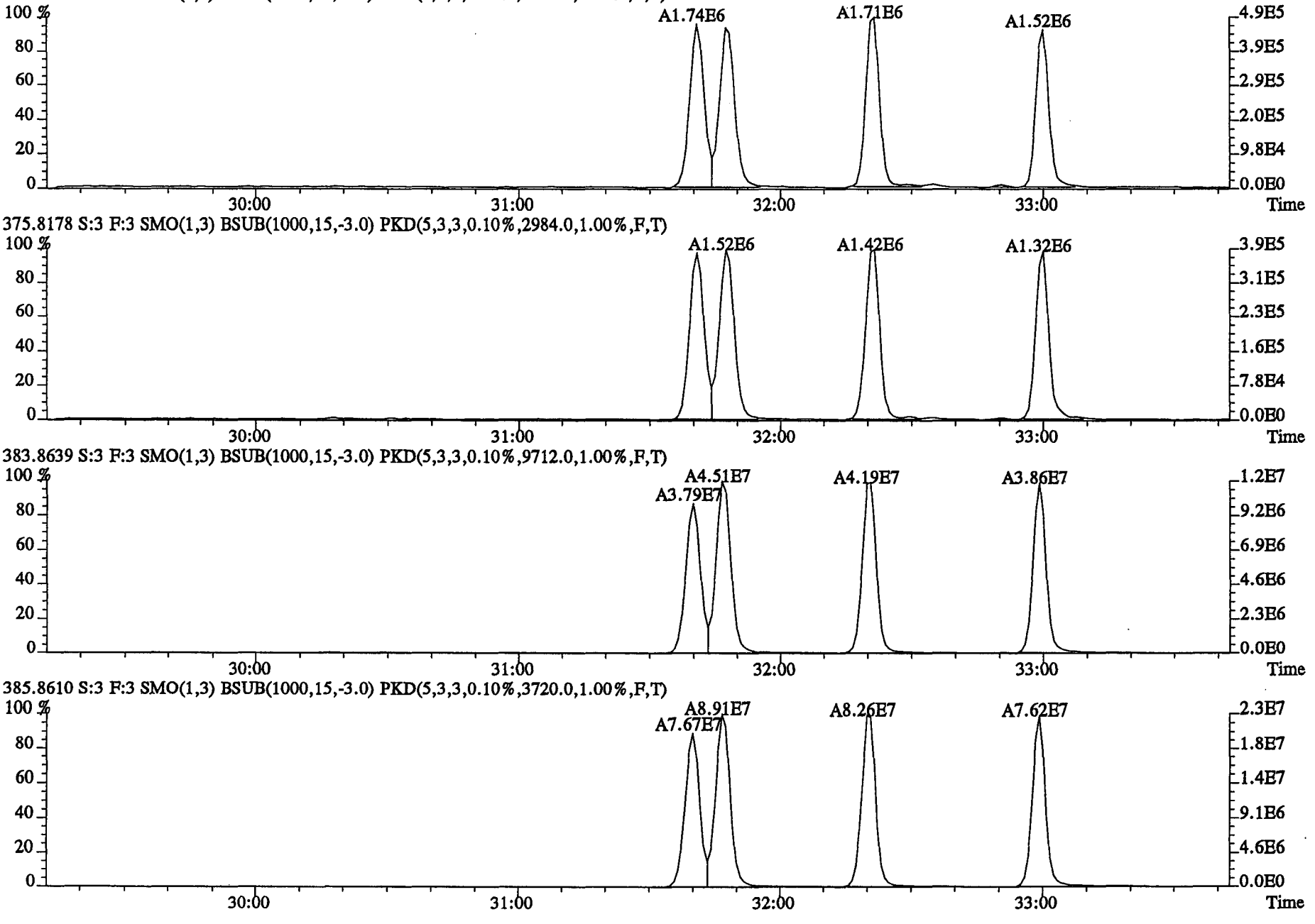
367.8949 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3908.0,1.00%,F,T)



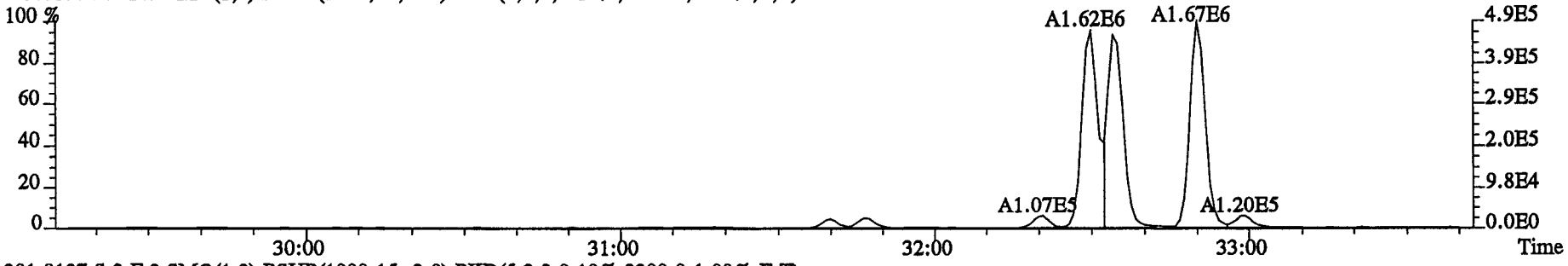
369.8919 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2696.0,1.00%,F,T)

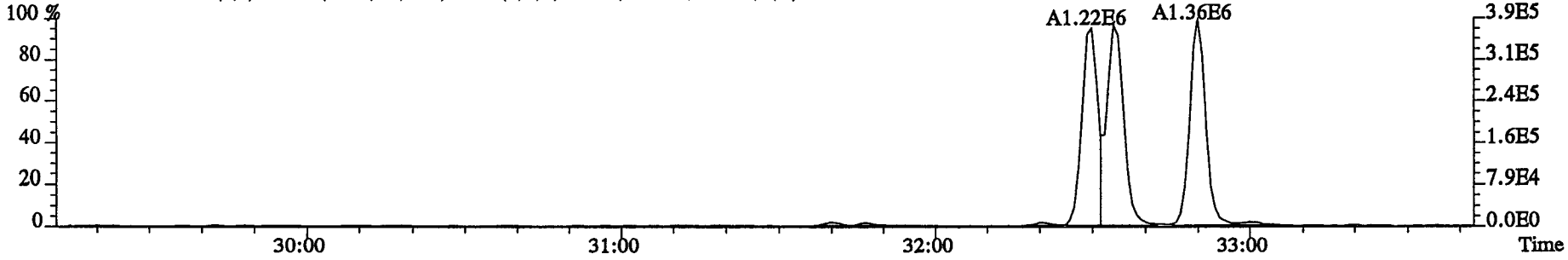


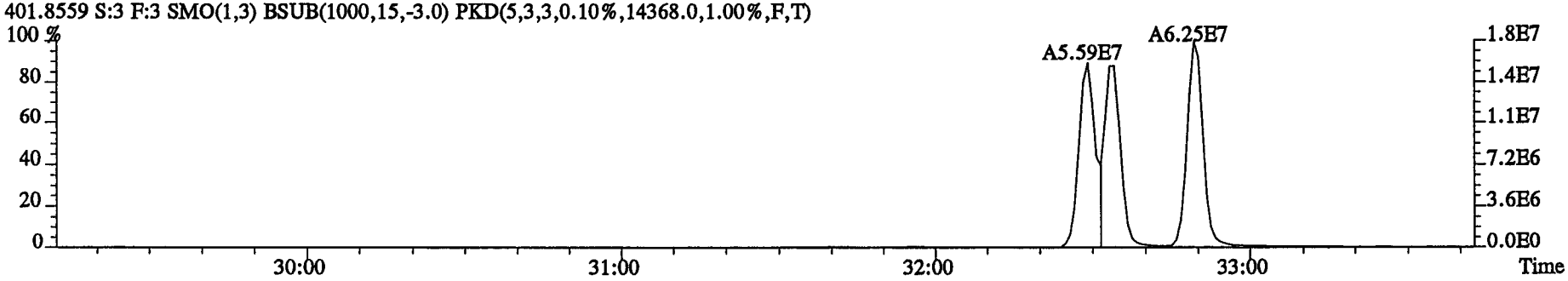
File:14DE10A9D5 #1-325 Acq:14-DEC-2010 16:23:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST1214 :CS-1 10DXN503 Exp:DIOXINRES

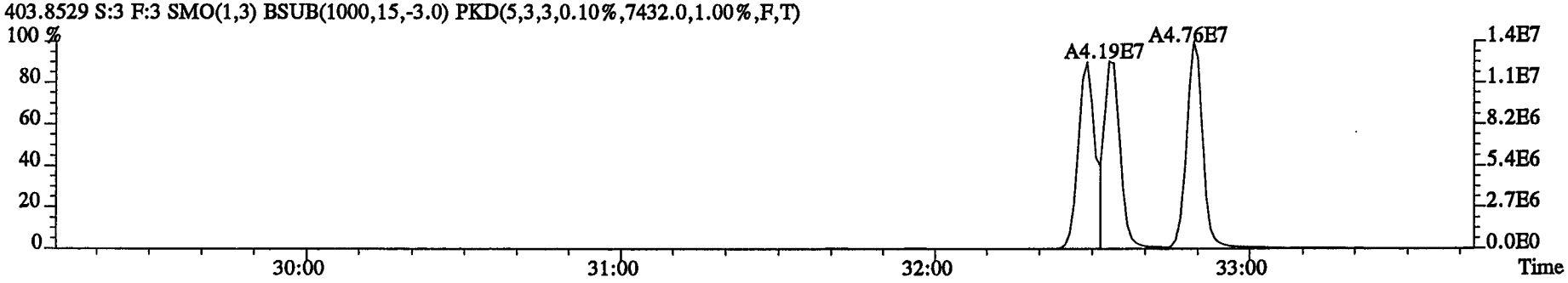


File:14DE10A9D5 #1-325 Acq:14-DEC-2010 16:23:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST1214 :CS-1 10DXN503 Exp:DIOXINRES

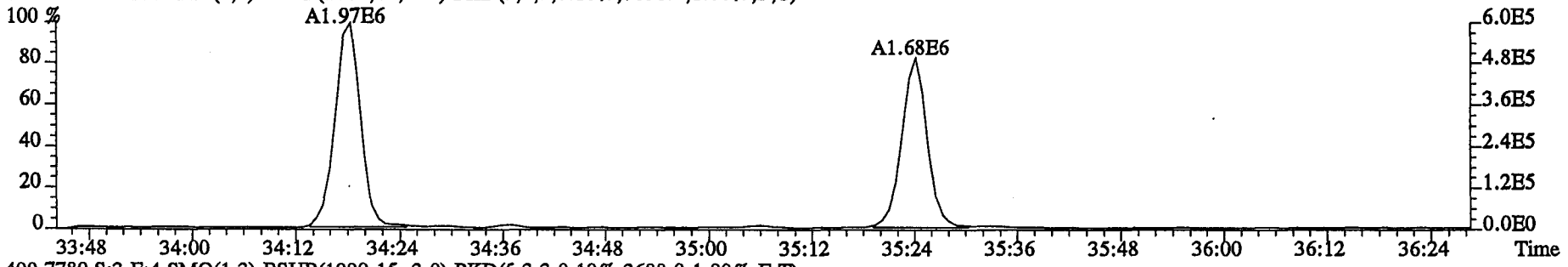




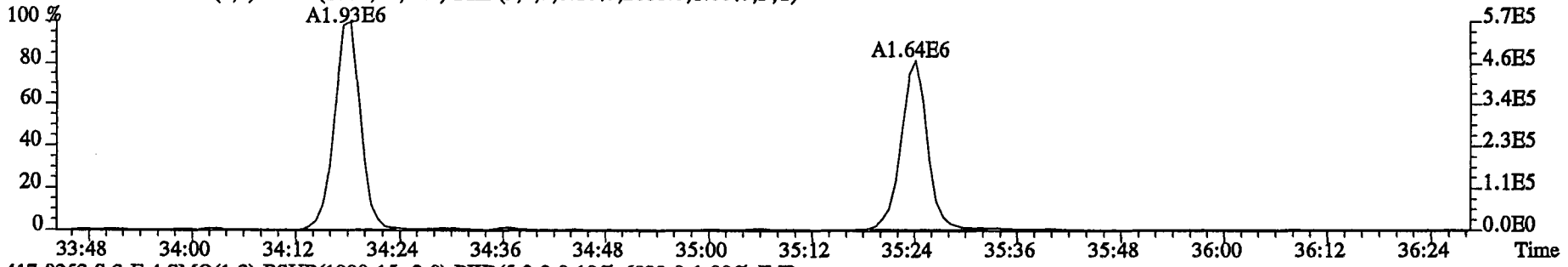




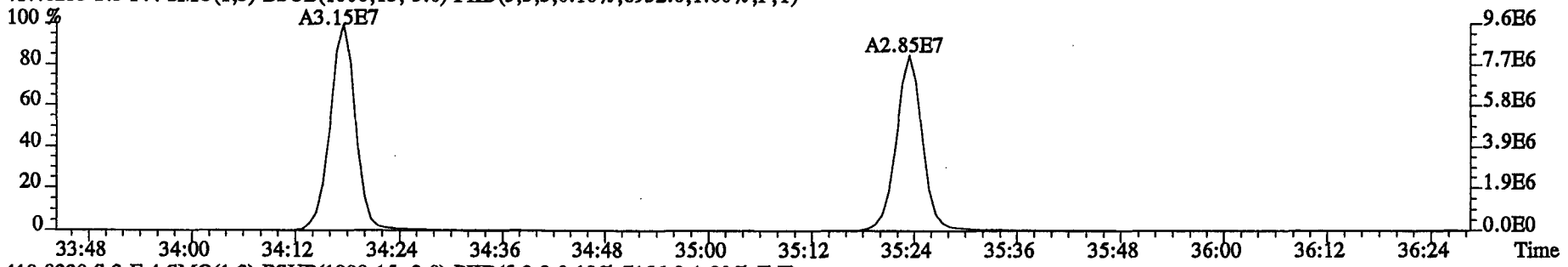
File:14DE10A9D5 #1-208 Acq:14-DEC-2010 16:23:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST1214 :CS-1 10DXN503 Exp:DIOXINRES
407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7656.0,1.00%,F,T)



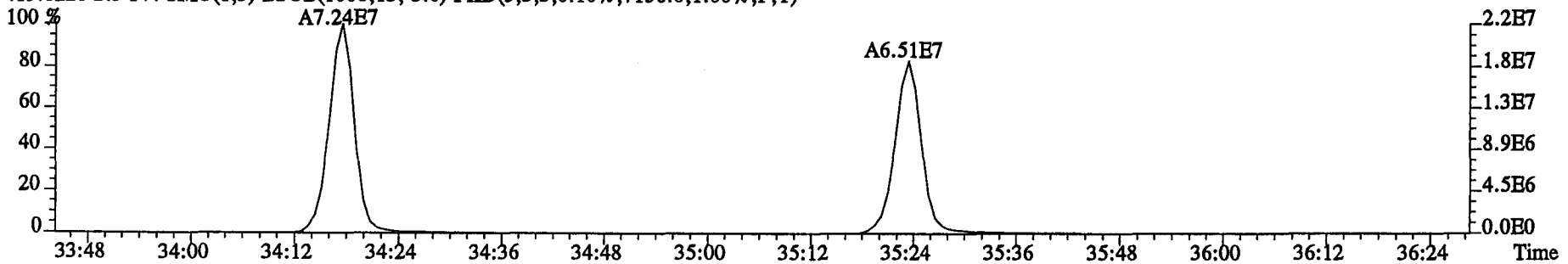
409.7789 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2688.0,1.00%,F,T)



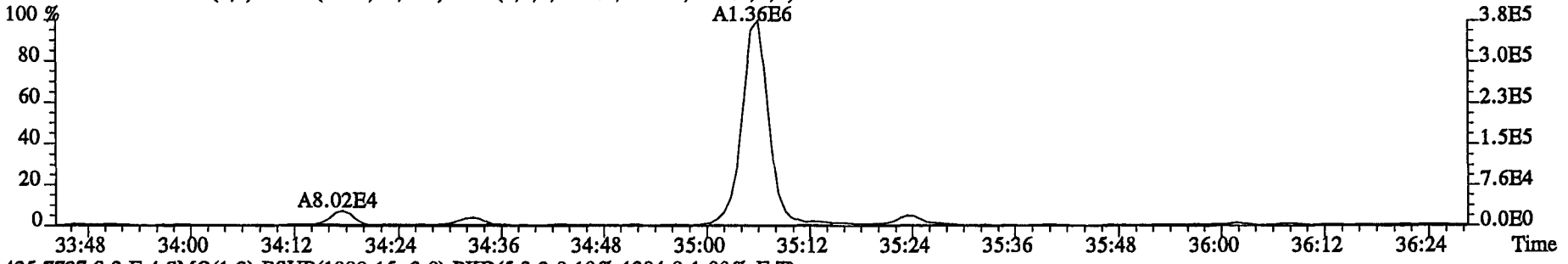
417.8253 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6932.0,1.00%,F,T)



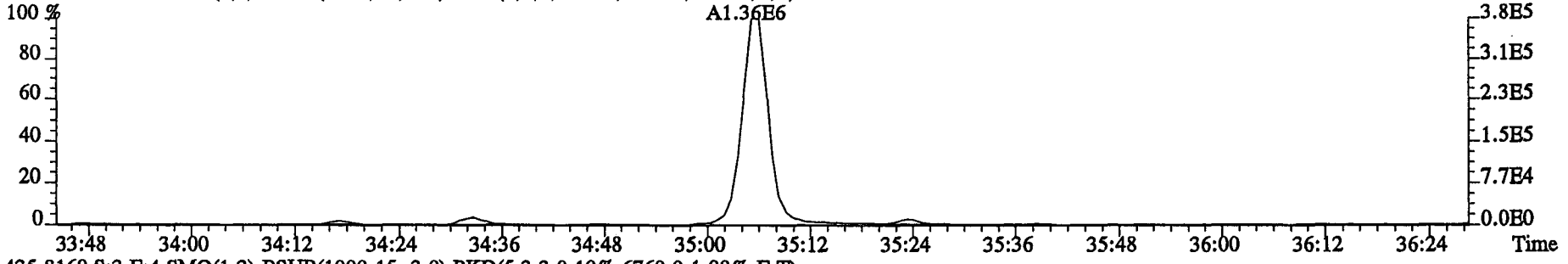
419.8220 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7156.0,1.00%,F,T)



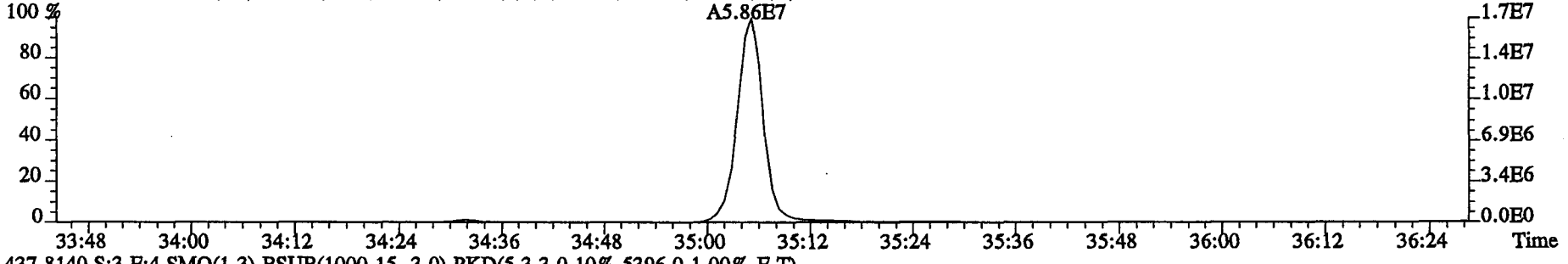
File:14DE10A9D5 #1-208 Acq:14-DEC-2010 16:23:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST1214 :CS-1 10DXN503 Exp:DIOXINRES
423.7766 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2488.0,1.00%,F,T)



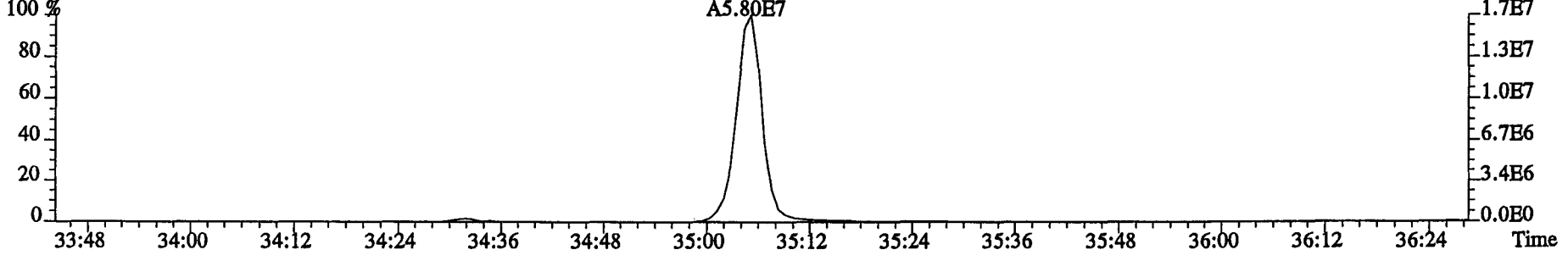
425.7737 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1284.0,1.00%,F,T)



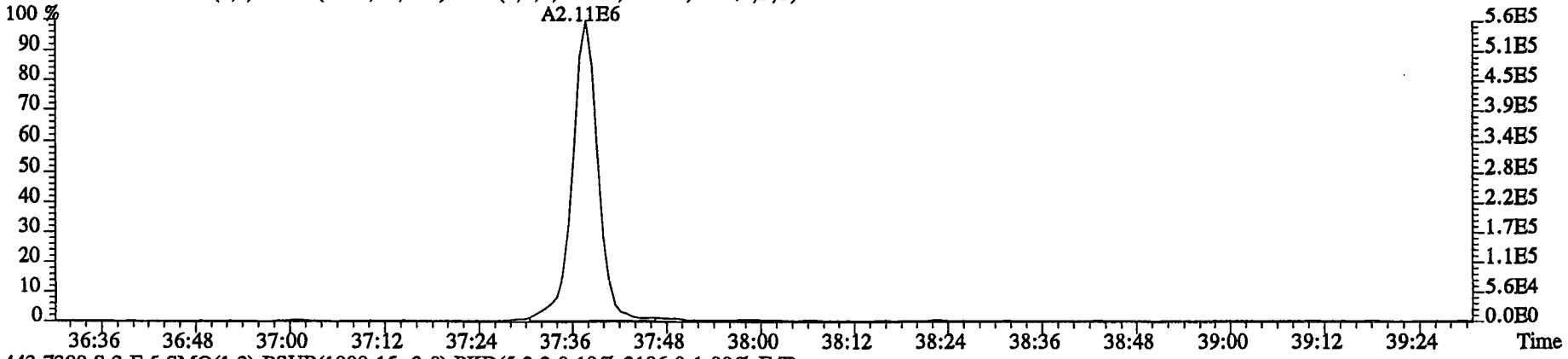
435.8169 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6760.0,1.00%,F,T)



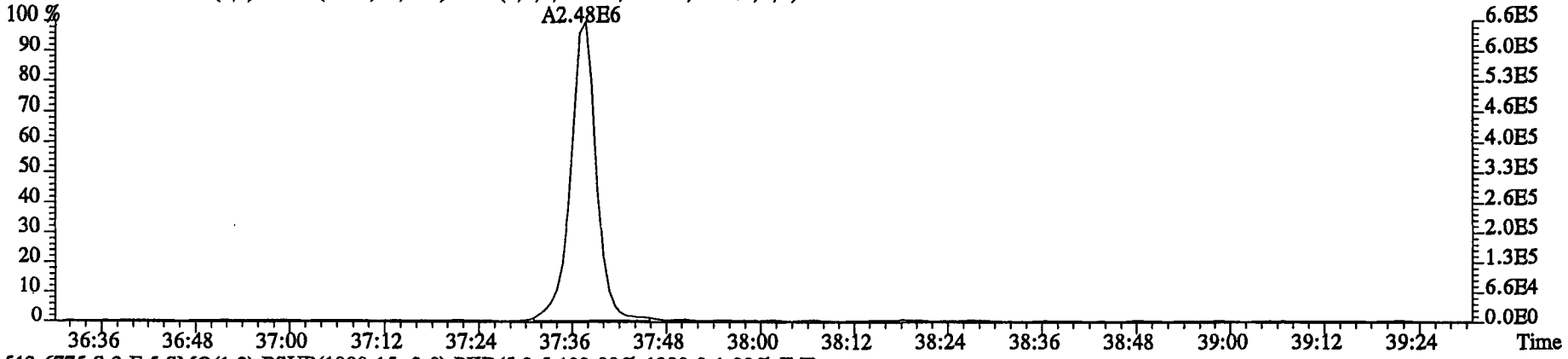
437.8140 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5396.0,1.00%,F,T)



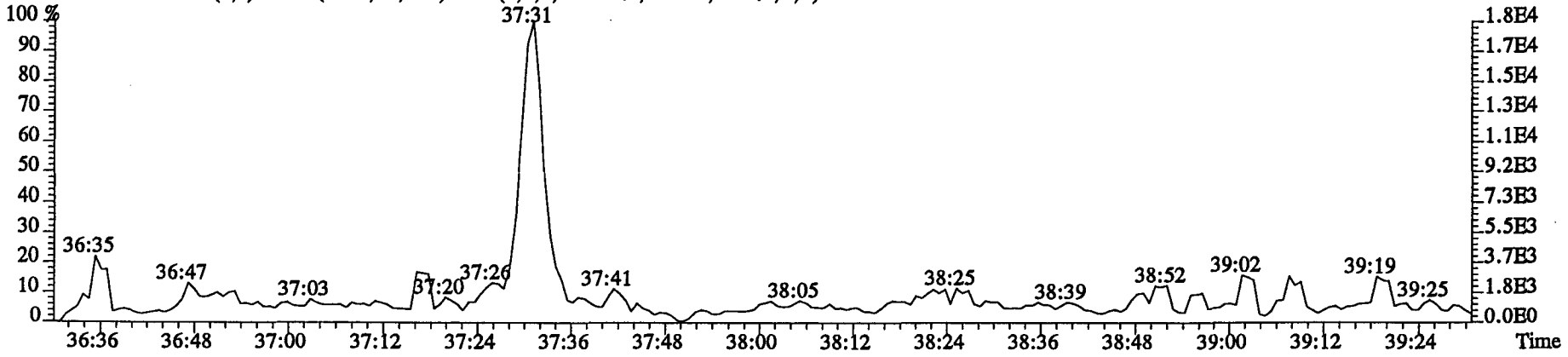
File:14DE10A9D5 #1-244 Acq:14-DEC-2010 16:23:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST1214 :CS-1 10DXN503 Exp:DIOXINRES
441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1384.0,1.00%,F,T)



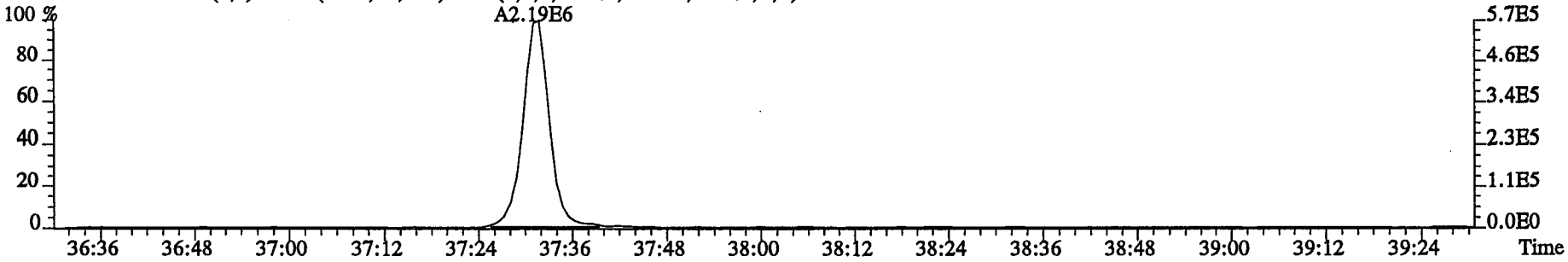
443.7399 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3196.0,1.00%,F,T)



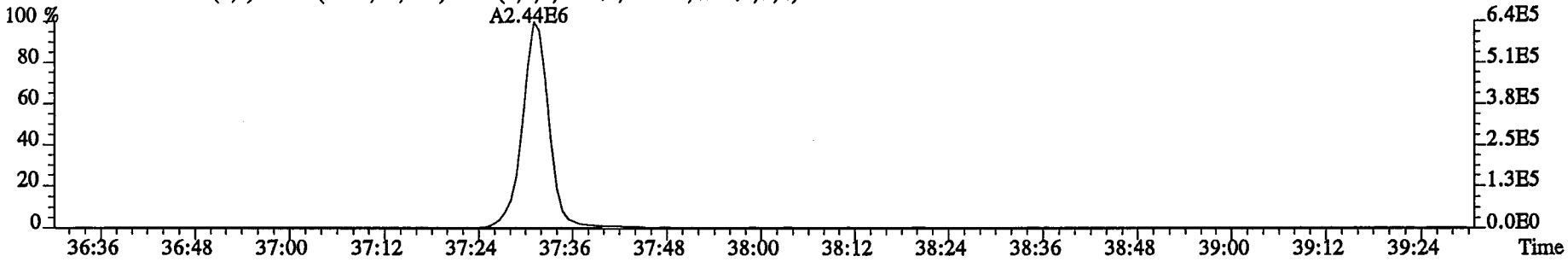
513.6775 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,1280.0,1.00%,F,T)



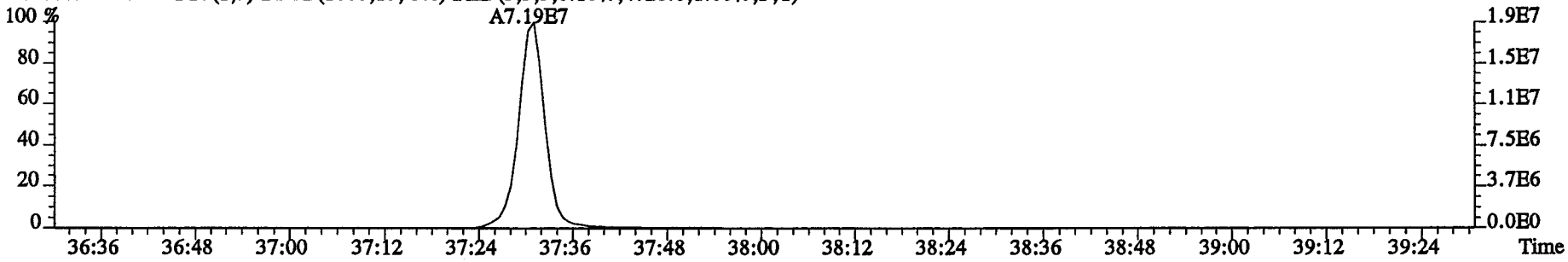
File:14DE10A9D5 #1-244 Acq:14-DEC-2010 16:23:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST1214 :CS-1 10DXN503 Exp:DIOXINRES
457.7377 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4252.0,1.00%,F,T)



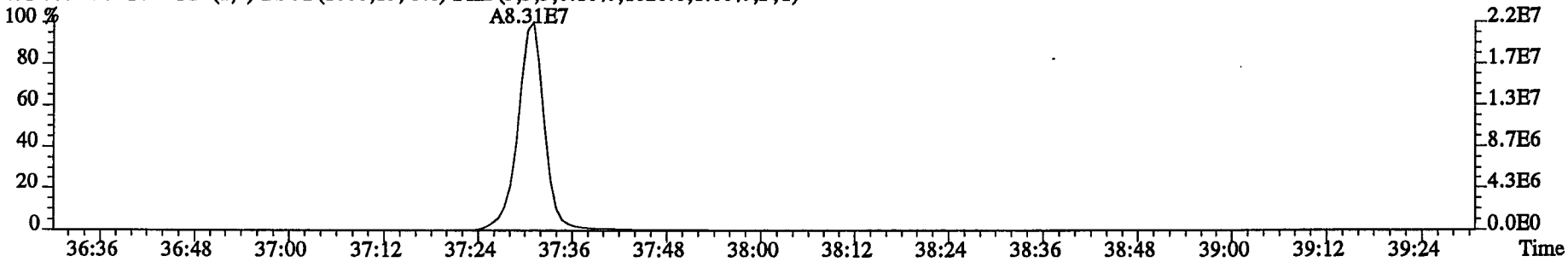
459.7348 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2036.0,1.00%,F,T)



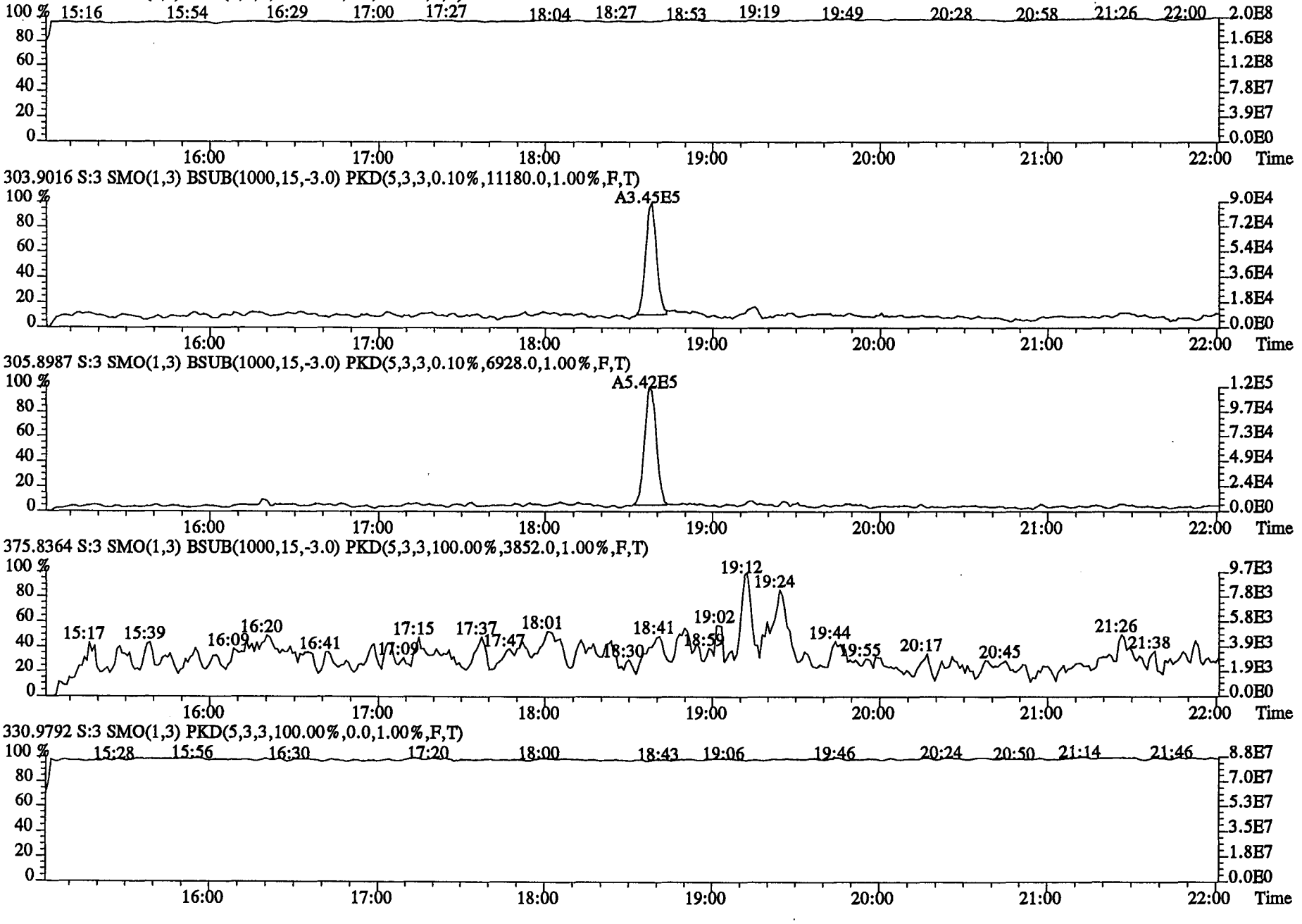
469.7779 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4728.0,1.00%,F,T)



471.7750 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1820.0,1.00%,F,T)

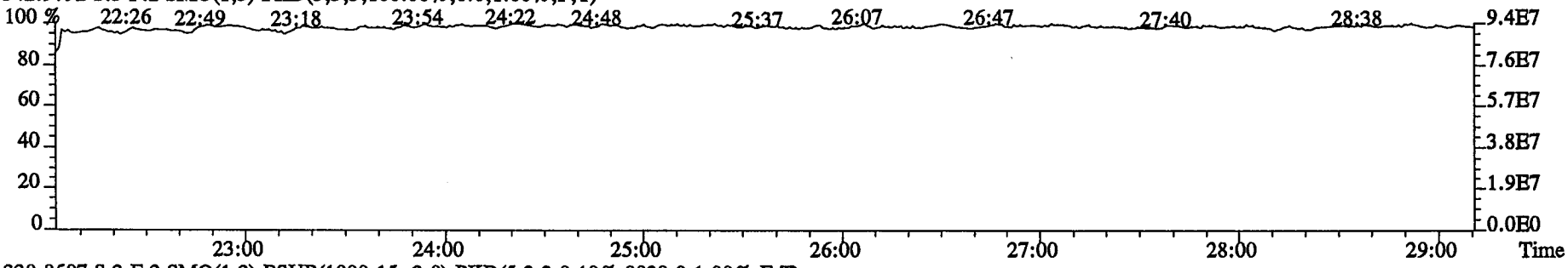


File:14DE10A9D5 #1-464 Acq:14-DEC-2010 16:23:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST1214 :CS-1 10DXN503 Exp:DIOXINRES

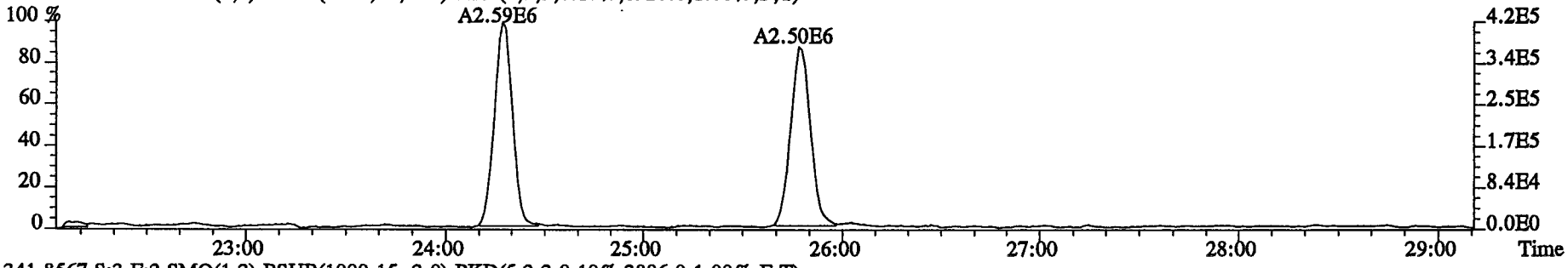


File:14DE10A9D5 #1-459 Acq:14-DEC-2010 16:23:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST1214 :CS-1 10DXN503 Exp:DIOXINRES

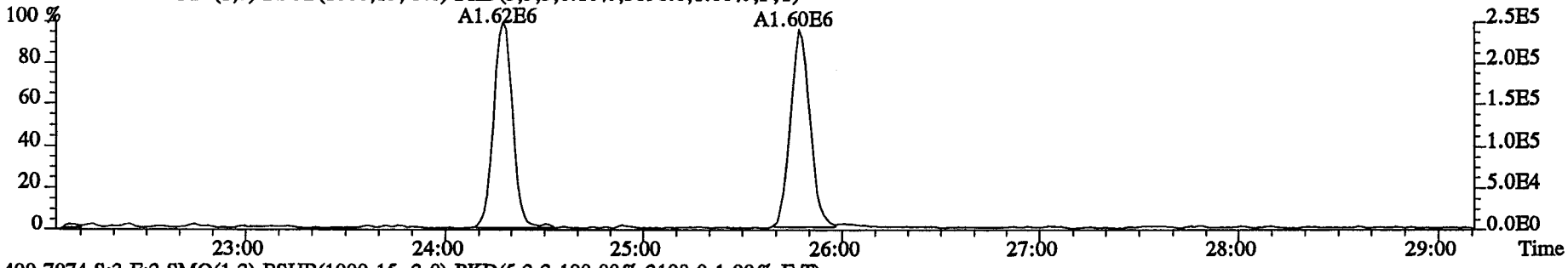
342.9792 S:3 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



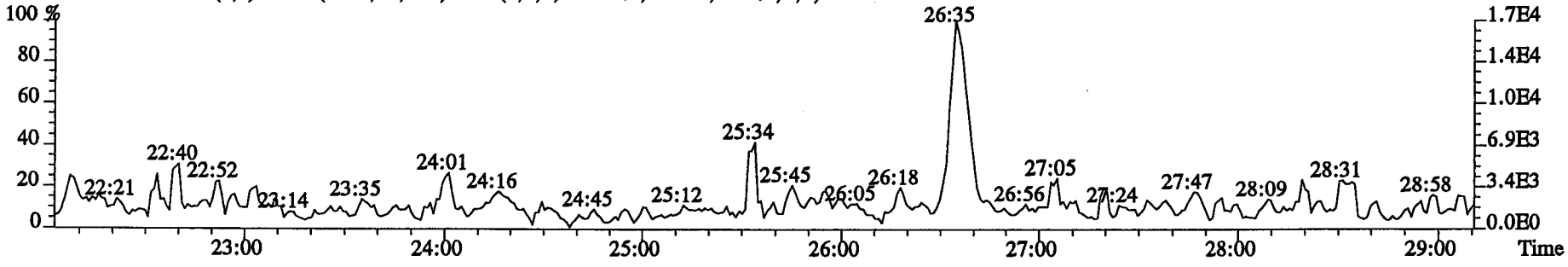
339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8928.0,1.00%,F,T)



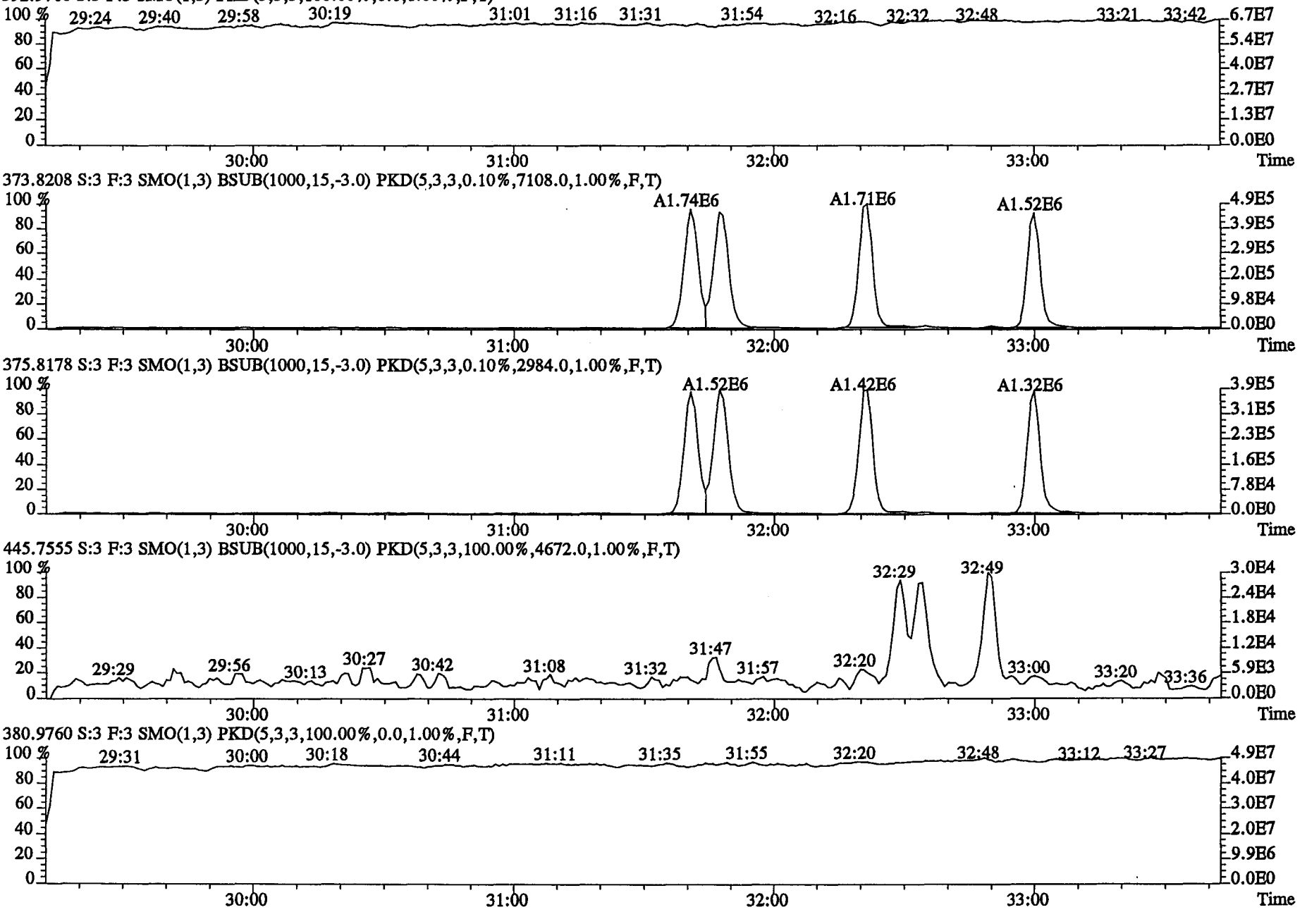
341.8567 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3896.0,1.00%,F,T)



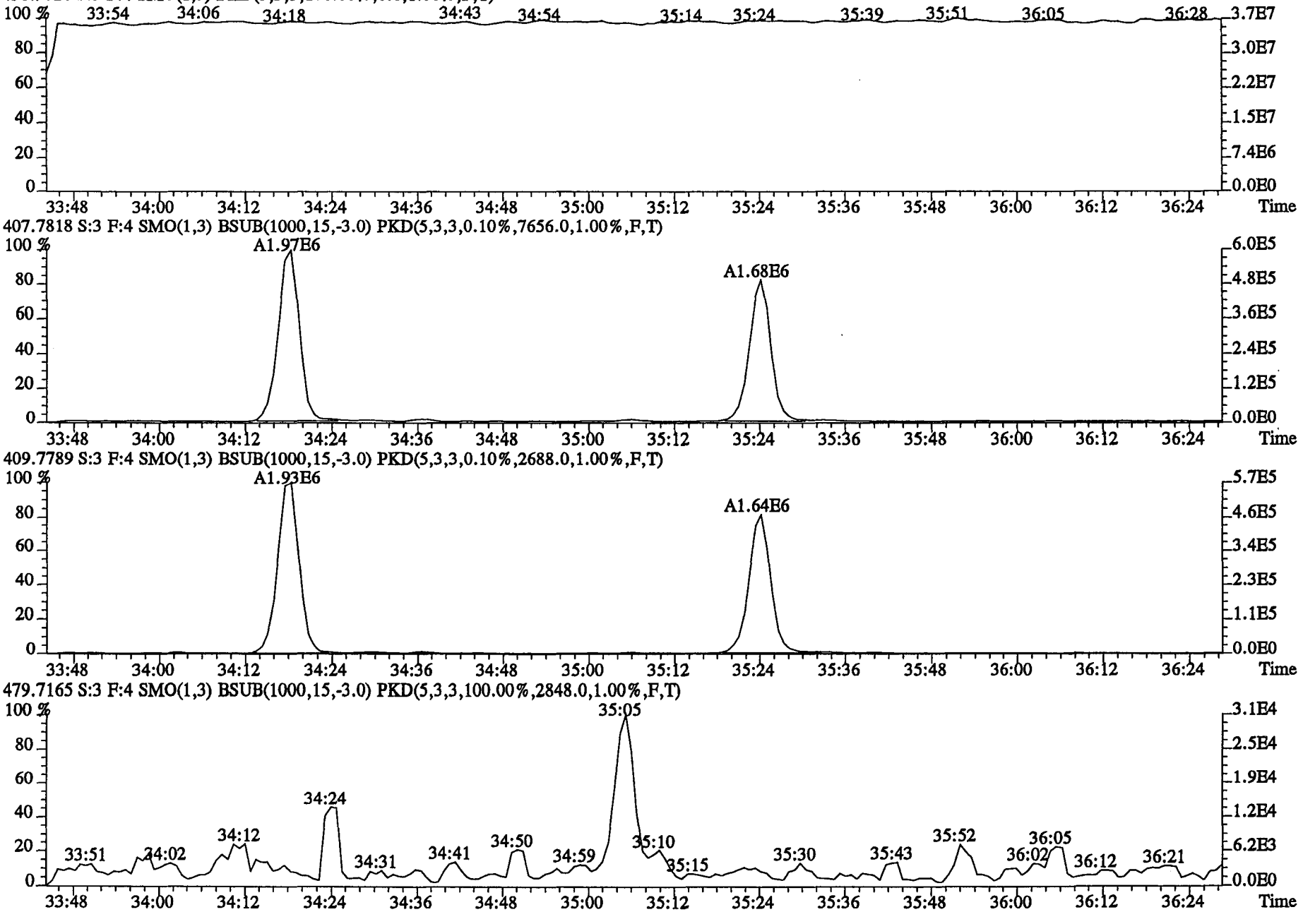
409.7974 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2108.0,1.00%,F,T)



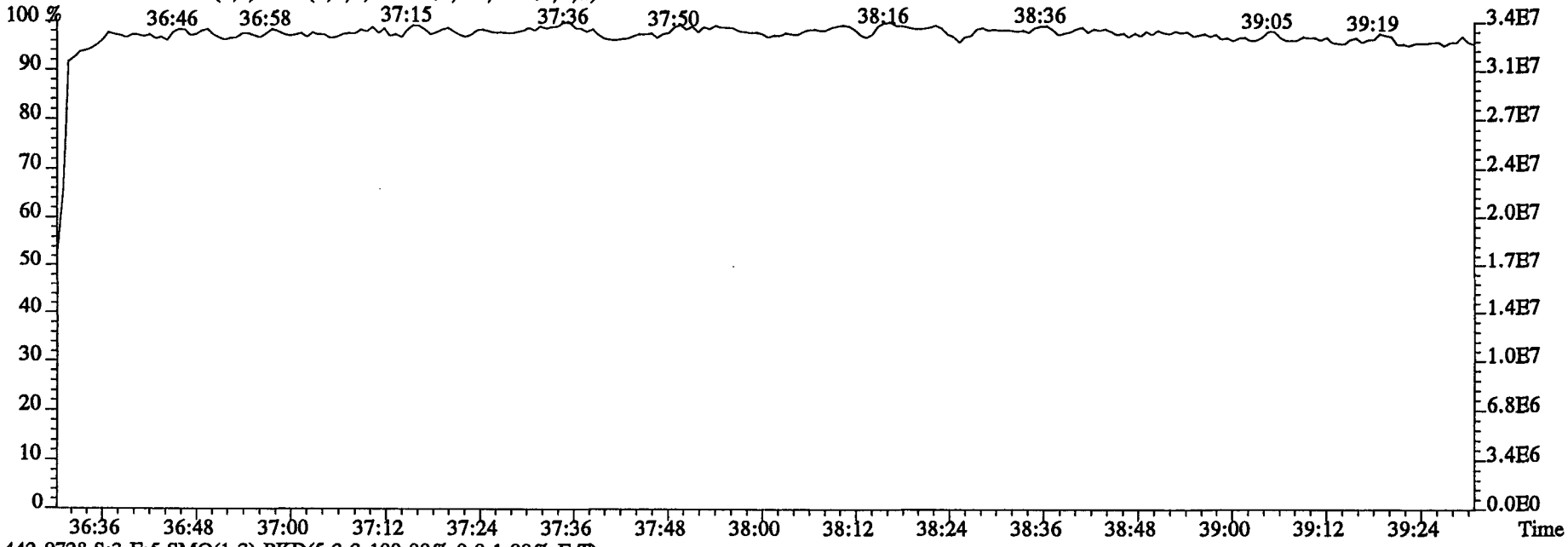
File:14DE10A9D5 #1-325 Acq:14-DEC-2010 16:23:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST1214 :CS-1 10DXN503 Exp:DIOXINRES



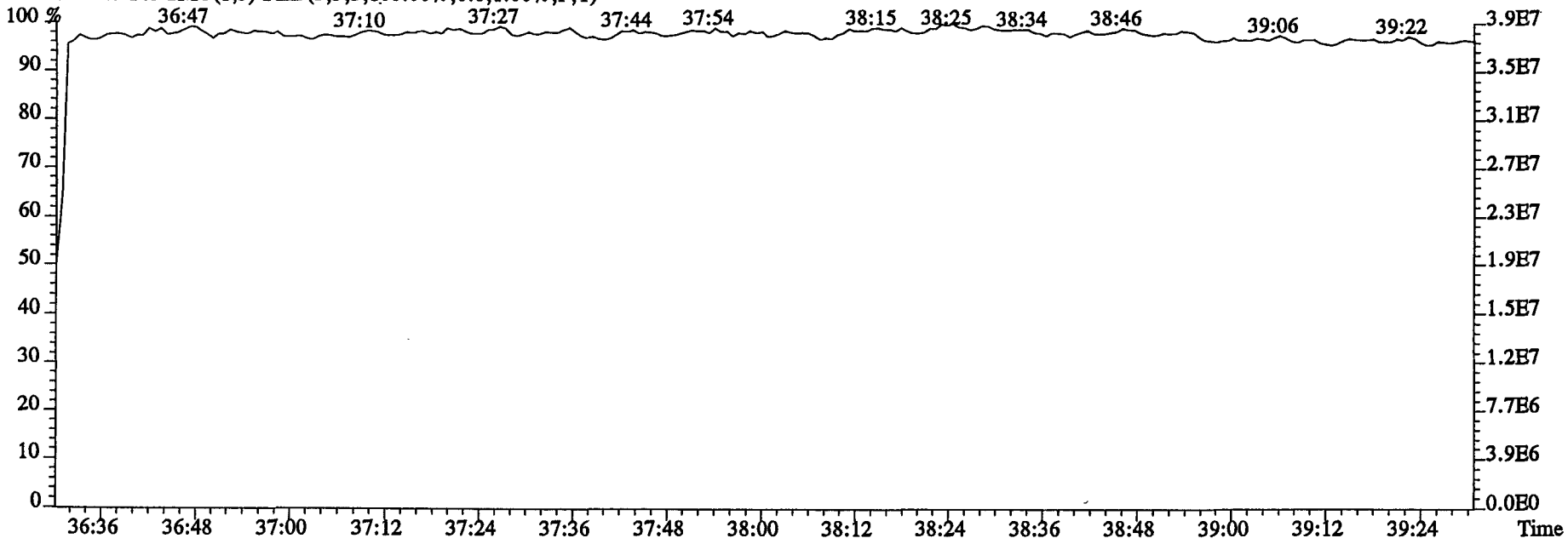
File:14DE10A9D5 #1-208 Acq:14-DEC-2010 16:23:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST1214 :CS-1 10DXN503 Exp:DIOXINRES



File:14DE10A9D5 #1-244 Acq:14-DEC-2010 16:23:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST1214 :CS-1 10DXN503 Exp:DIOXINRES
454.9728 S:3 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

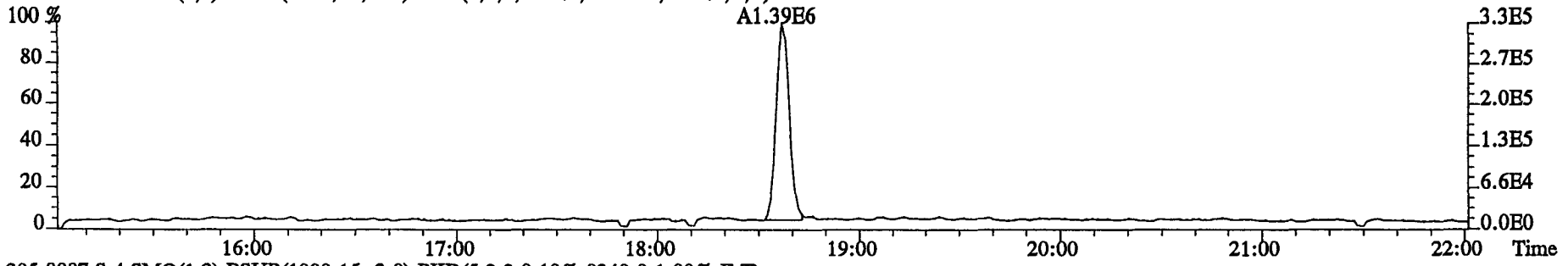


442.9728 S:3 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

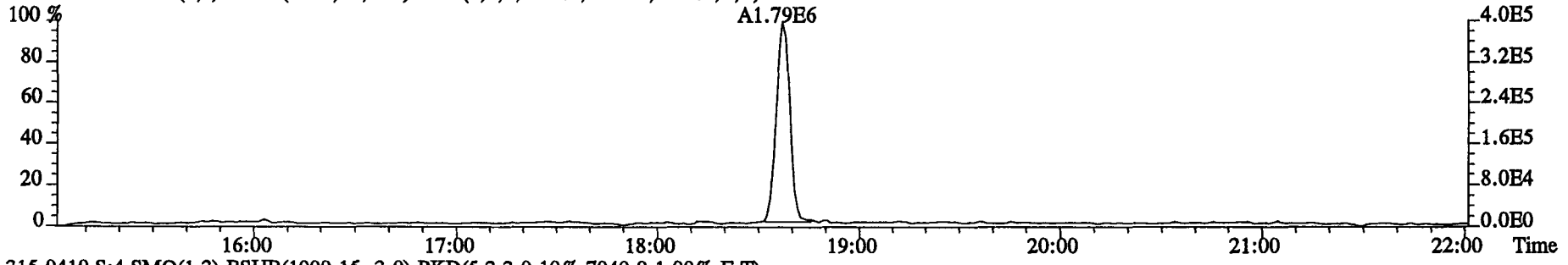


File:14DE10A9D5 #1-464 Acq:14-DEC-2010 17:07:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST1214A :CS-2 10DXN504 Exp:DIOXINRES

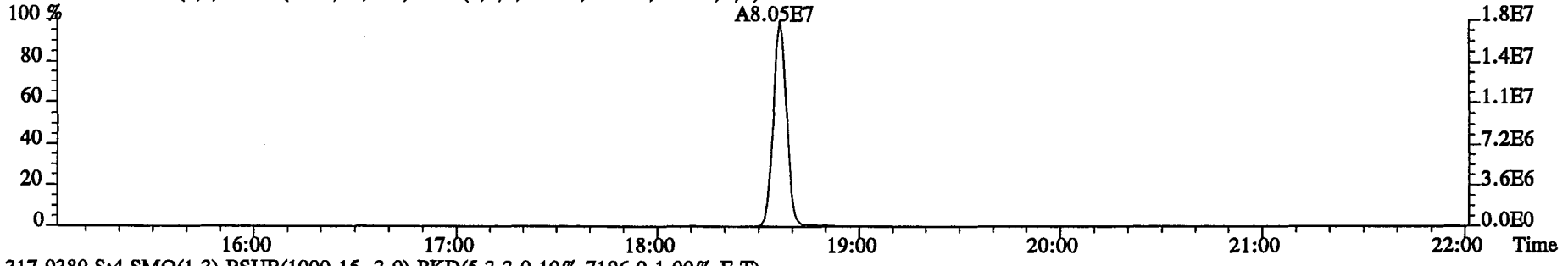
303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19940.0,1.00%,F,T)



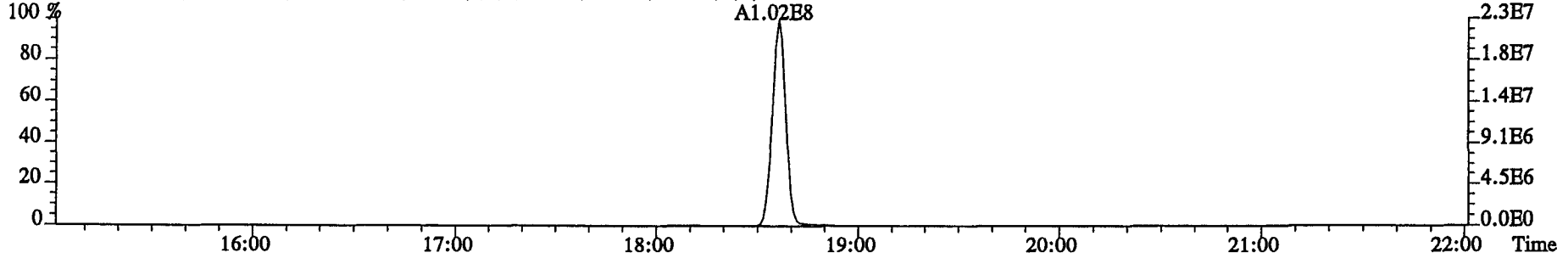
305.8987 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9340.0,1.00%,F,T)



315.9419 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7040.0,1.00%,F,T)

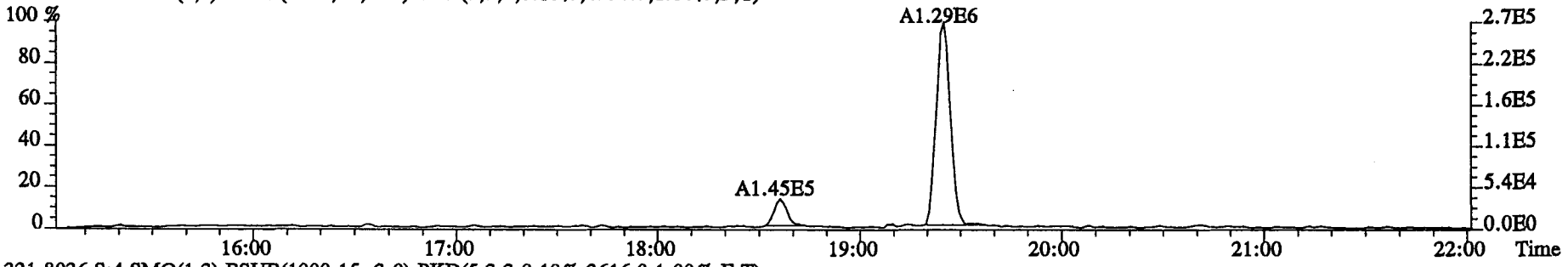


317.9389 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7196.0,1.00%,F,T)

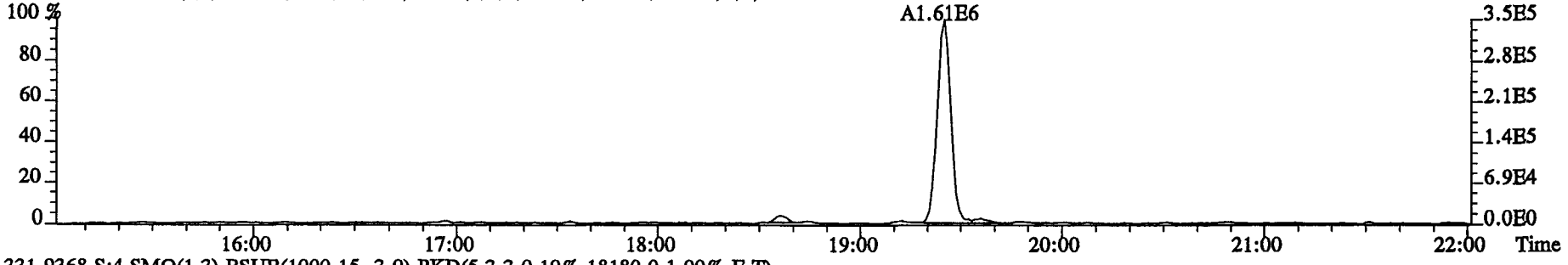


File:14DE10A9D5 #1-464 Acq:14-DEC-2010 17:07:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST1214A :CS-2 10DXN504 Exp:DIOXINRES

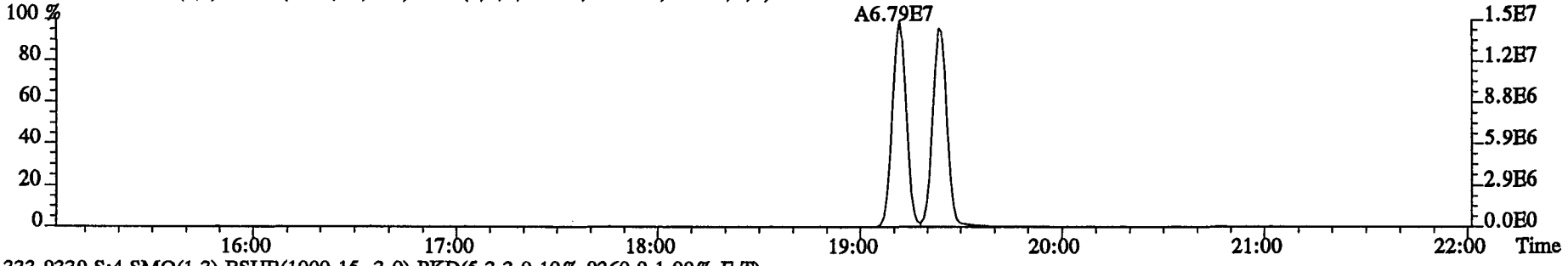
319.8965 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4536.0,1.00%,F,T)



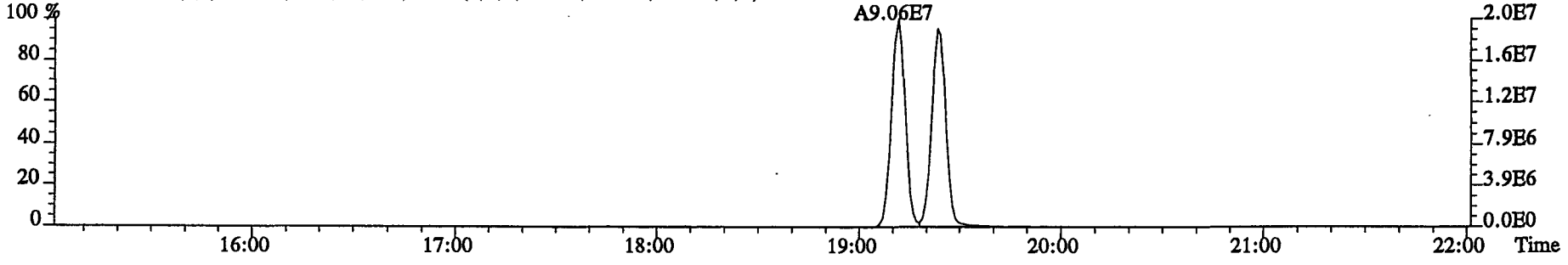
321.8936 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3616.0,1.00%,F,T)



331.9368 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18180.0,1.00%,F,T)

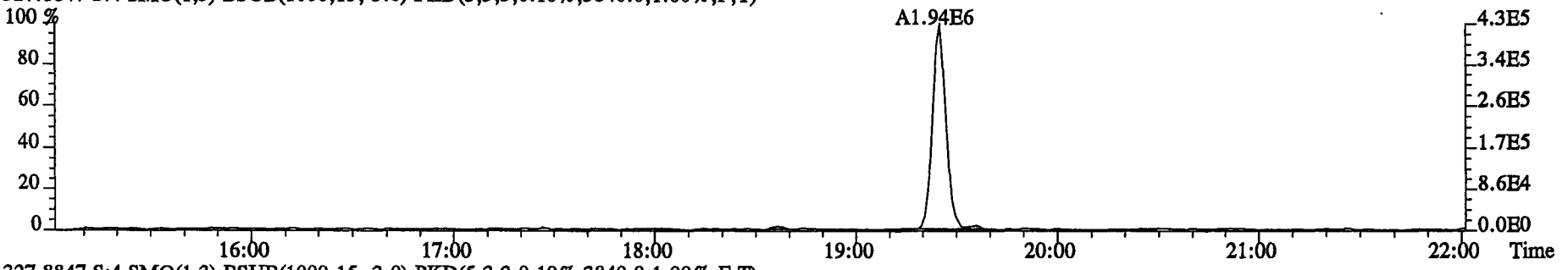


333.9339 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9260.0,1.00%,F,T)

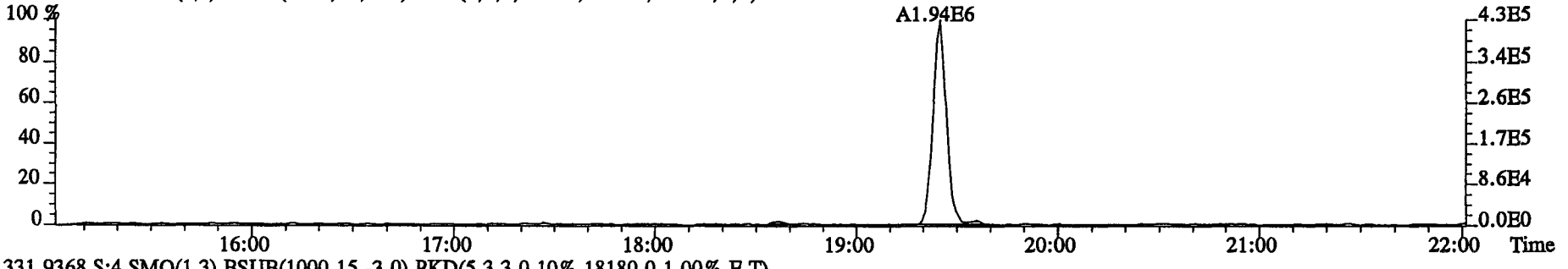


File:14DE10A9D5 #1-464 Acq:14-DEC-2010 17:07:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST1214A :CS-2 10DXN504 Exp:DIOXINRES

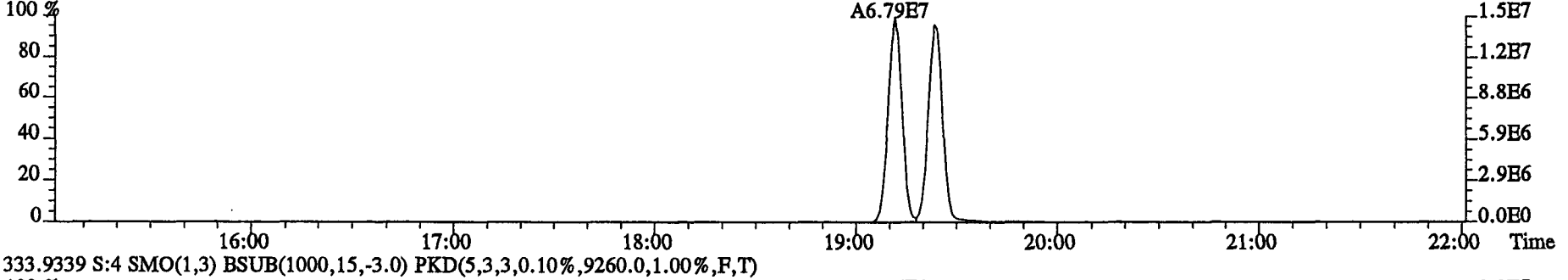
327.8847 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3840.0,1.00%,F,T)



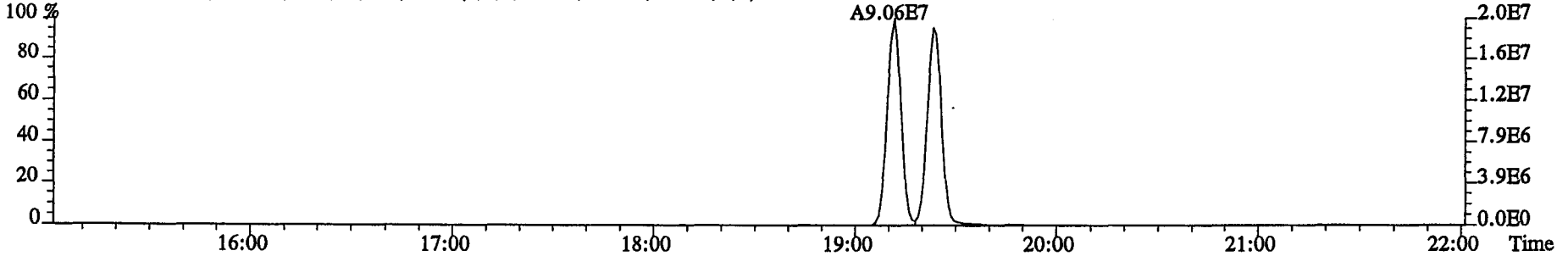
327.8847 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3840.0,1.00%,F,T)



331.9368 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18180.0,1.00%,F,T)

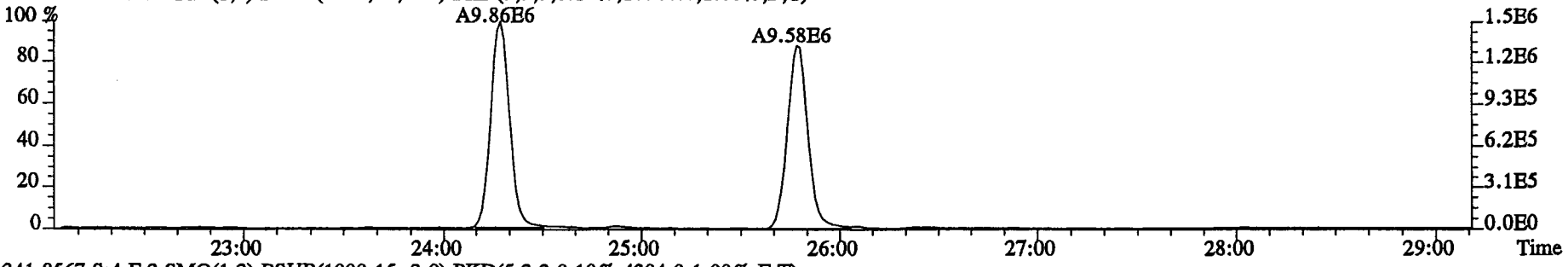


333.9339 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9260.0,1.00%,F,T)

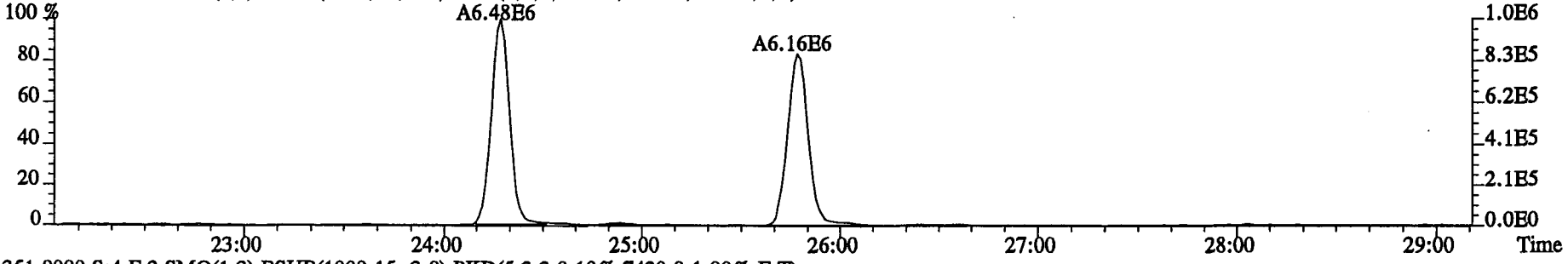


File:14DE10A9D5 #1-459 Acq:14-DEC-2010 17:07:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST1214A :CS-2 10DXN504 Exp:DIOXINRES

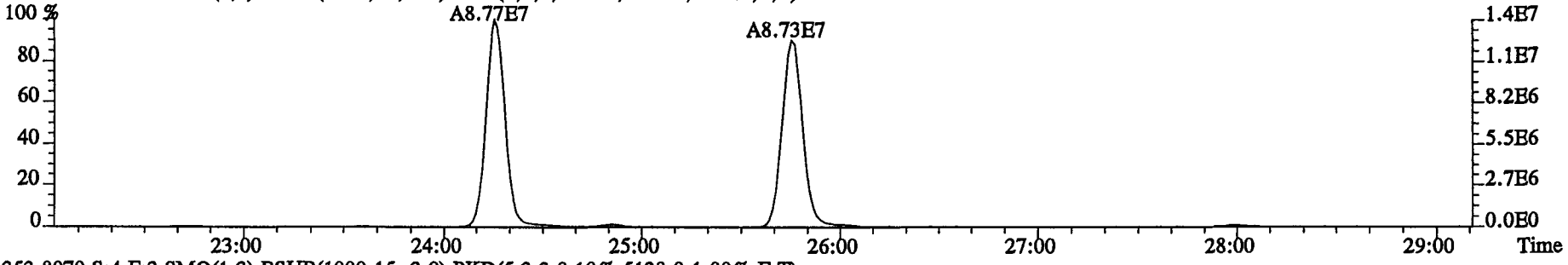
339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10740.0,1.00%,F,T)



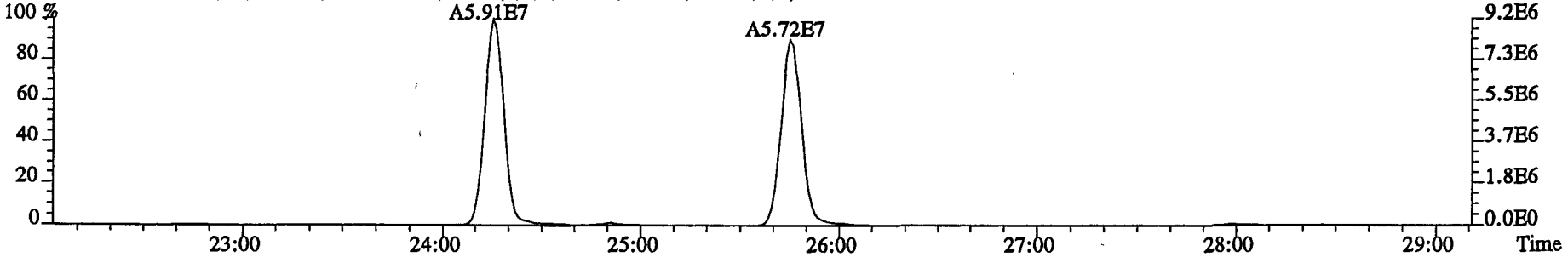
341.8567 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4304.0,1.00%,F,T)



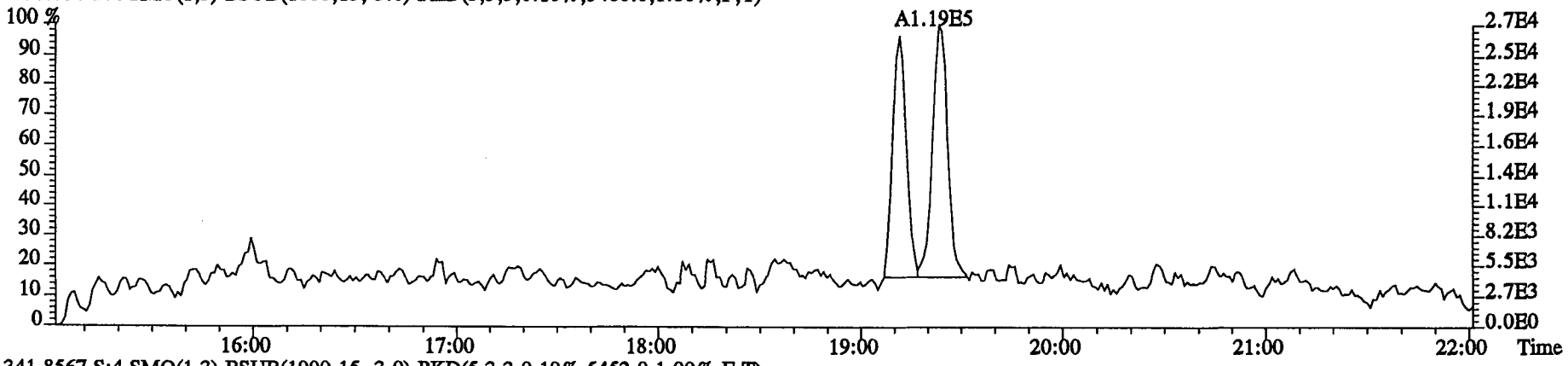
351.9000 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7420.0,1.00%,F,T)



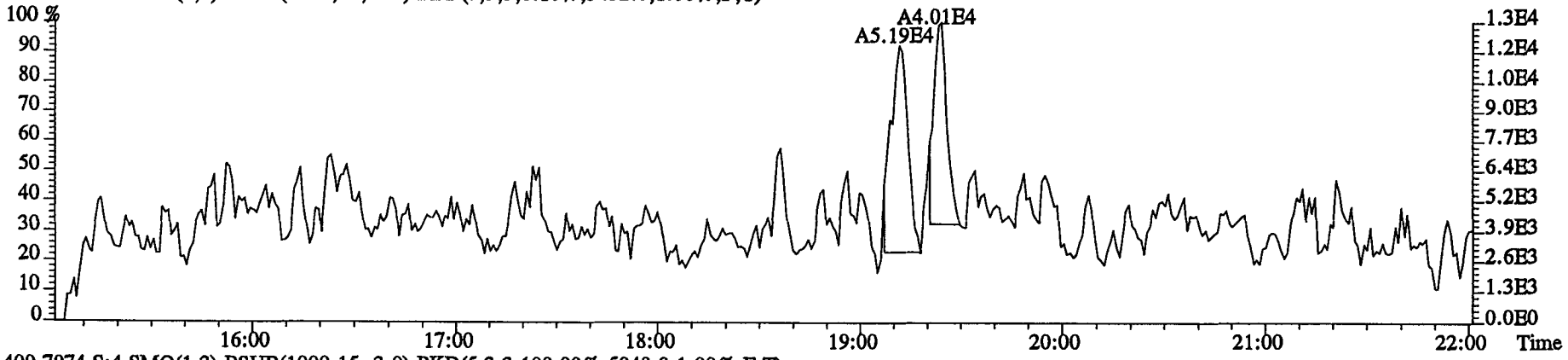
353.8970 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5128.0,1.00%,F,T)



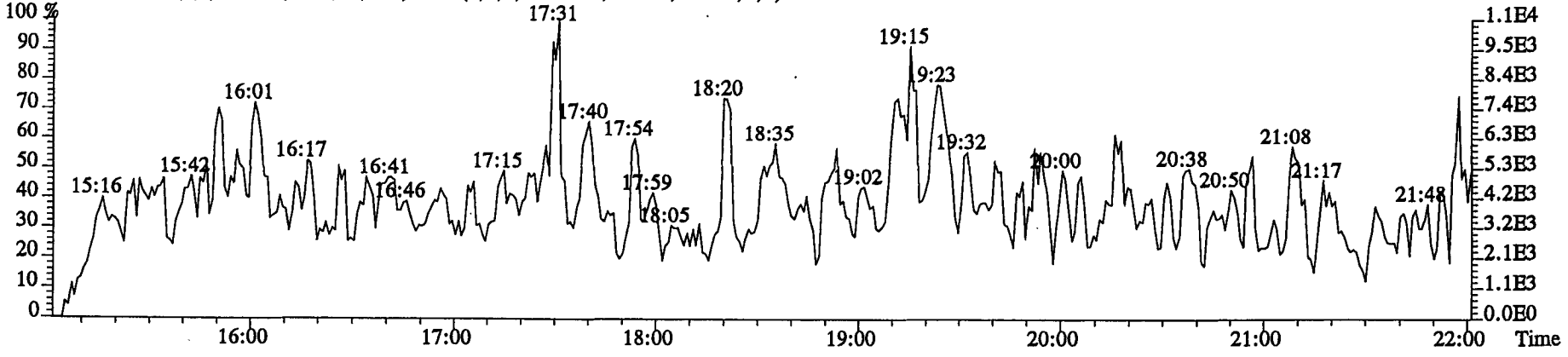
File:14DE10A9D5 #1-464 Acq:14-DEC-2010 17:07:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST1214A :CS-2 10DXN504 Exp:DIOXINRES
339.8597 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5480.0,1.00%,F,T)



341.8567 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5452.0,1.00%,F,T)

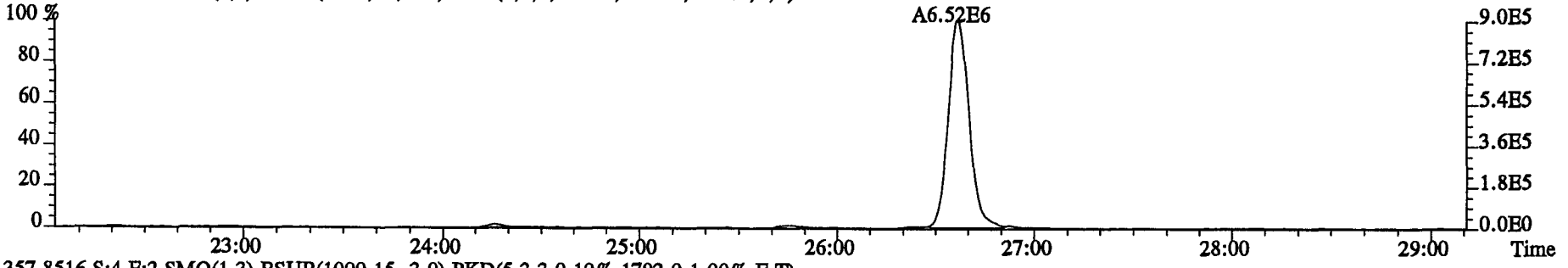


409.7974 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,5048.0,1.00%,F,T)

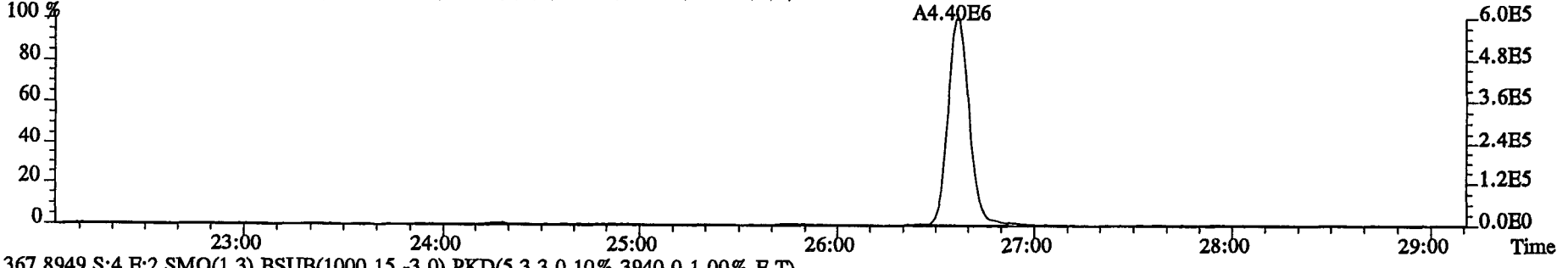


File:14DE10A9D5 #1-459 Acq:14-DEC-2010 17:07:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST1214A :CS-2 10DXN504 Exp:DIOXINRES

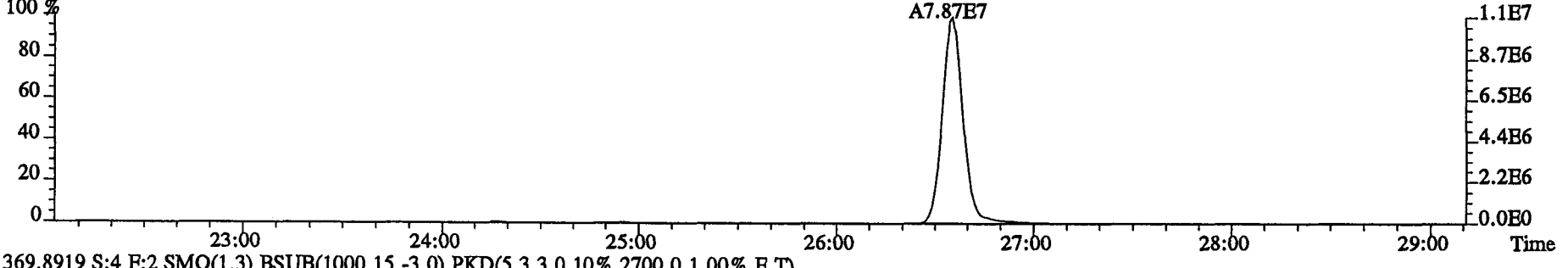
355.8546 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3732.0,1.00%,F,T)



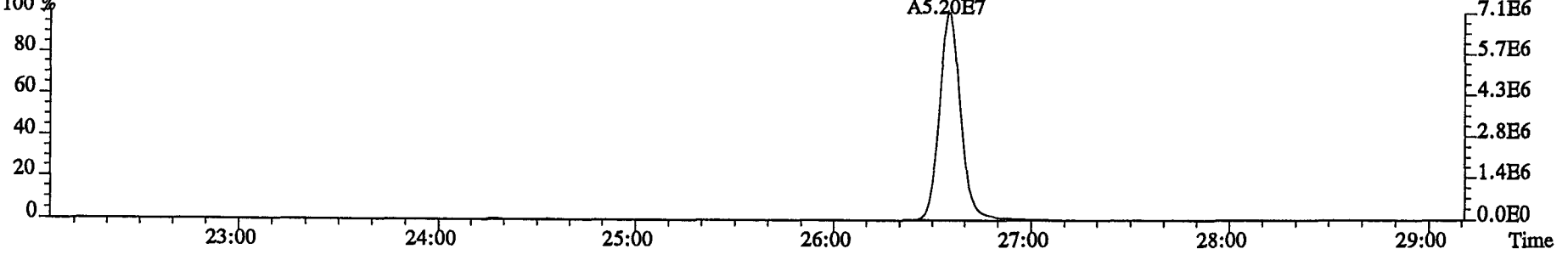
357.8516 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1792.0,1.00%,F,T)



367.8949 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3940.0,1.00%,F,T)

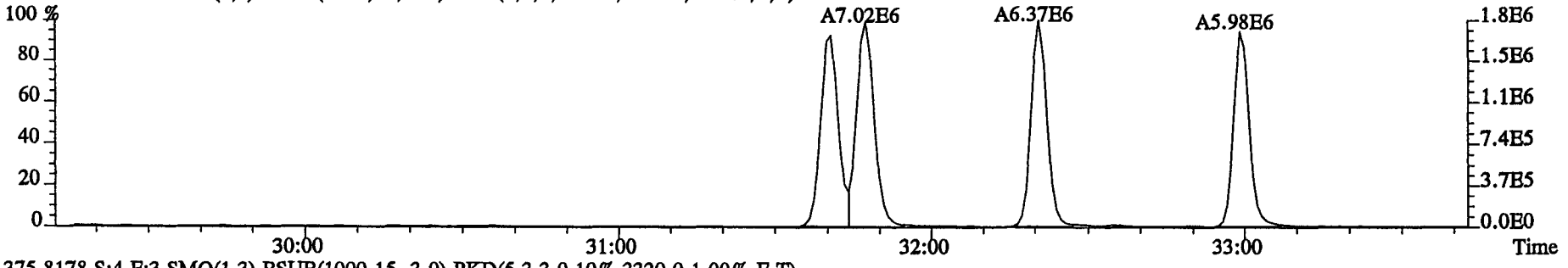


369.8919 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2700.0,1.00%,F,T)

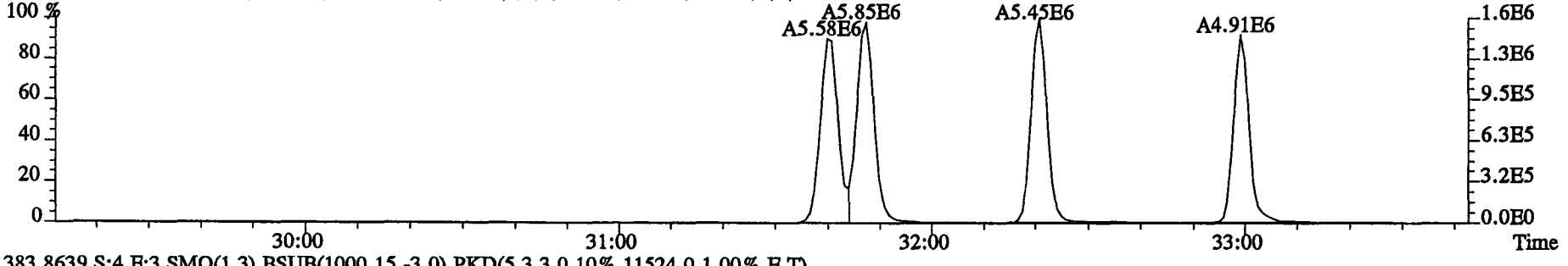


File:14DE10A9D5 #1-325 Acq:14-DEC-2010 17:07:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST1214A :CS-2 10DXN504 Exp:DIOXINRES

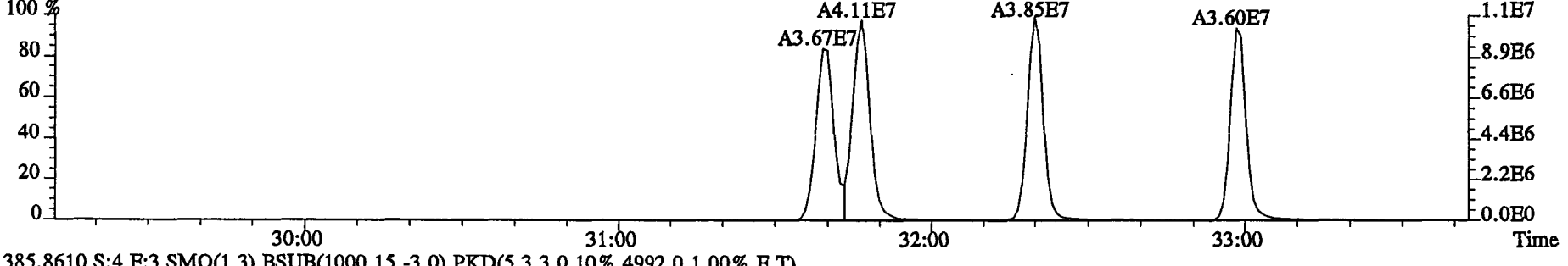
373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8520.0,1.00%,F,T)



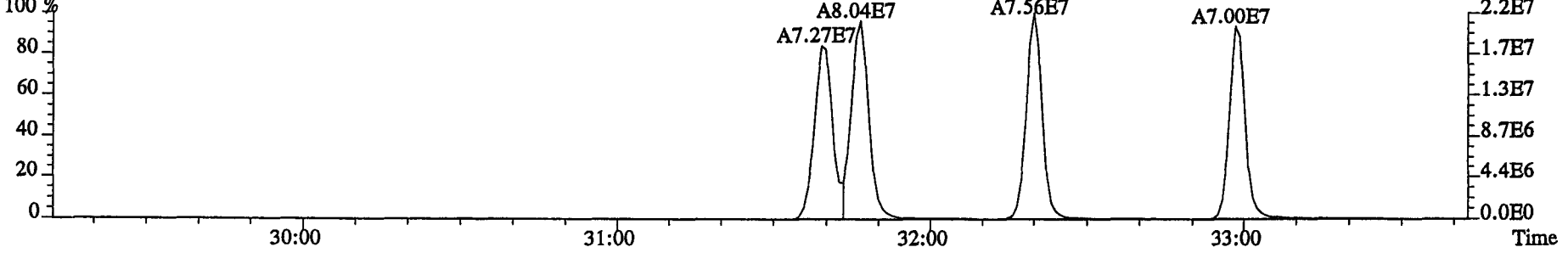
375.8178 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3320.0,1.00%,F,T)



383.8639 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11524.0,1.00%,F,T)

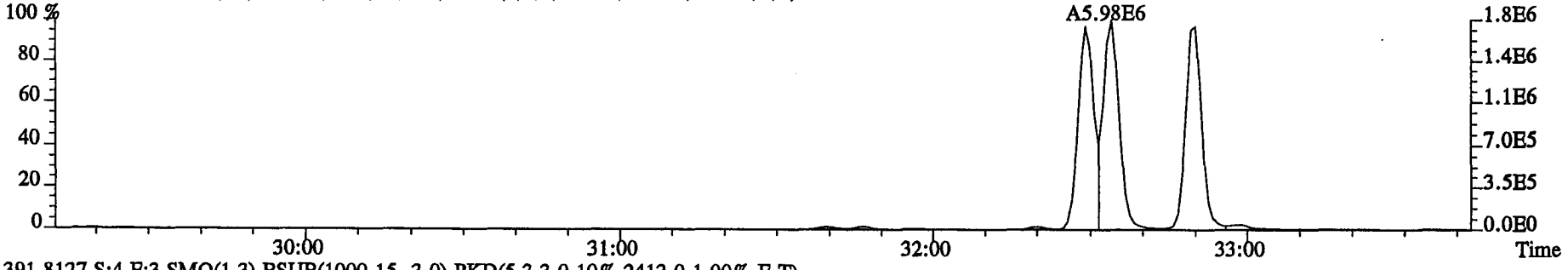


385.8610 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4992.0,1.00%,F,T)

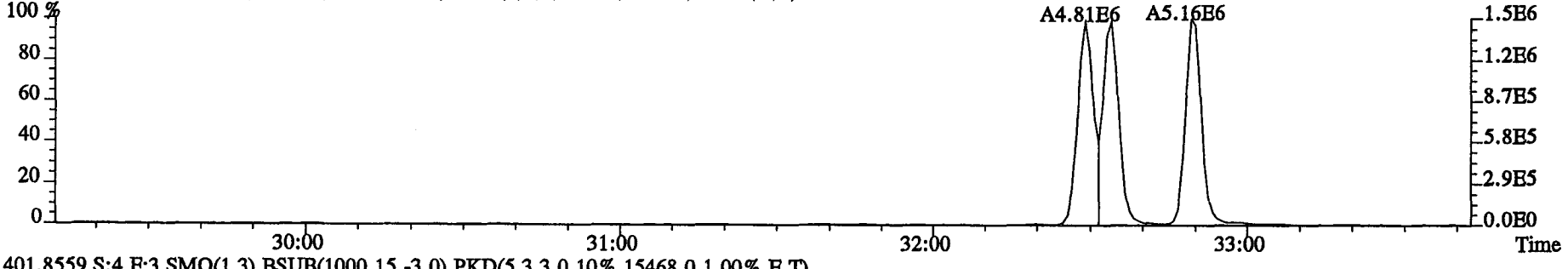


File:14DE10A9D5 #1-325 Acq:14-DEC-2010 17:07:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST1214A :CS-2 10DXN504 Exp:DIOXINRES

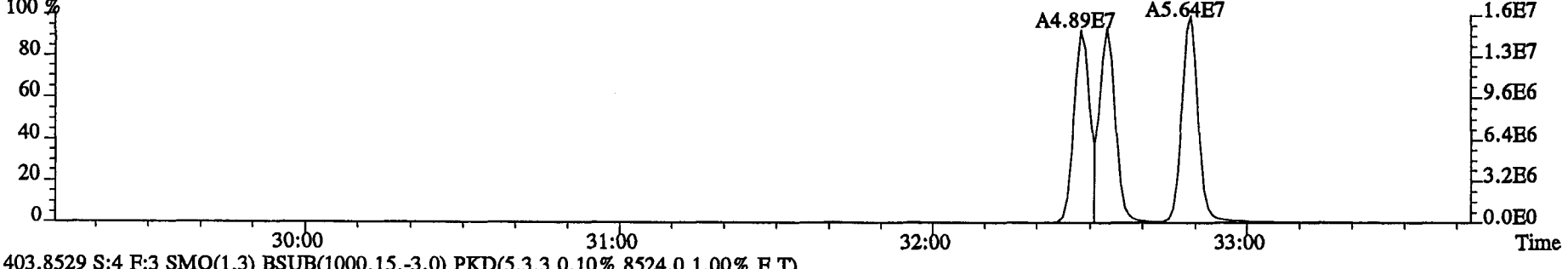
389.8157 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2460.0,1.00%,F,T)



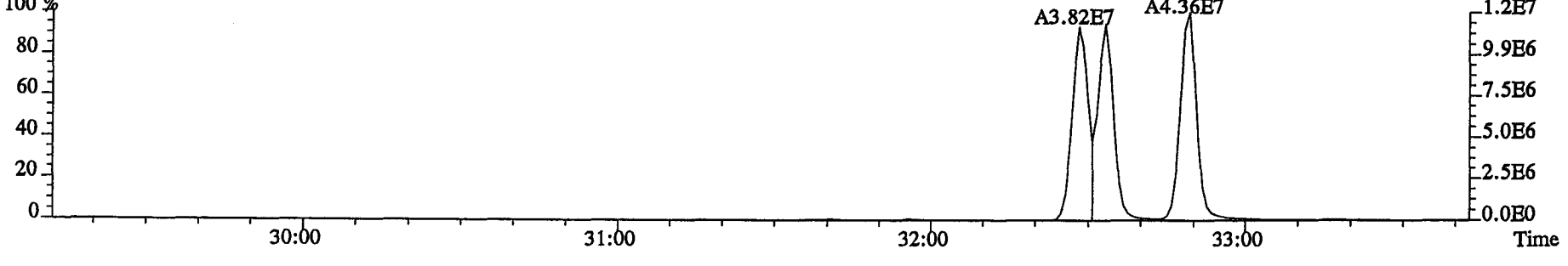
391.8127 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2412.0,1.00%,F,T)



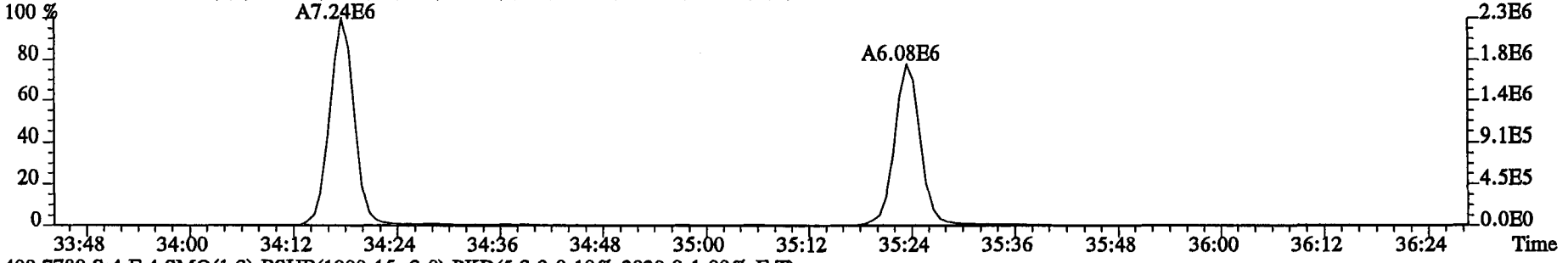
401.8559 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15468.0,1.00%,F,T)



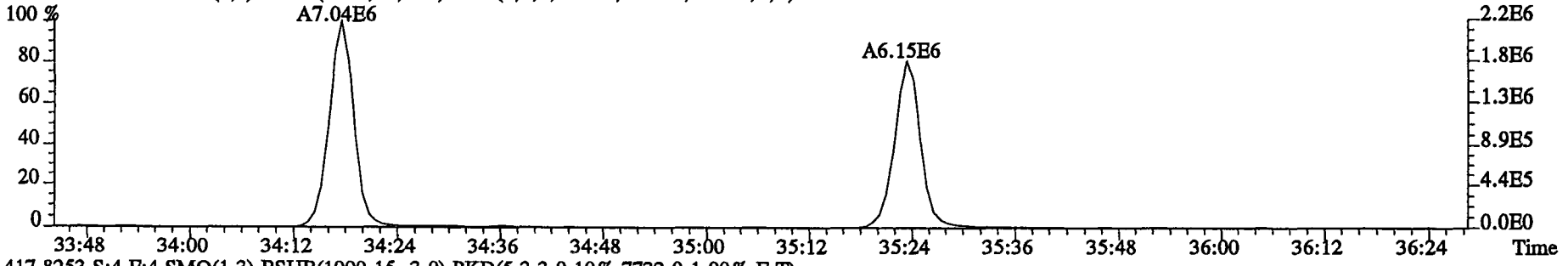
403.8529 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8524.0,1.00%,F,T)



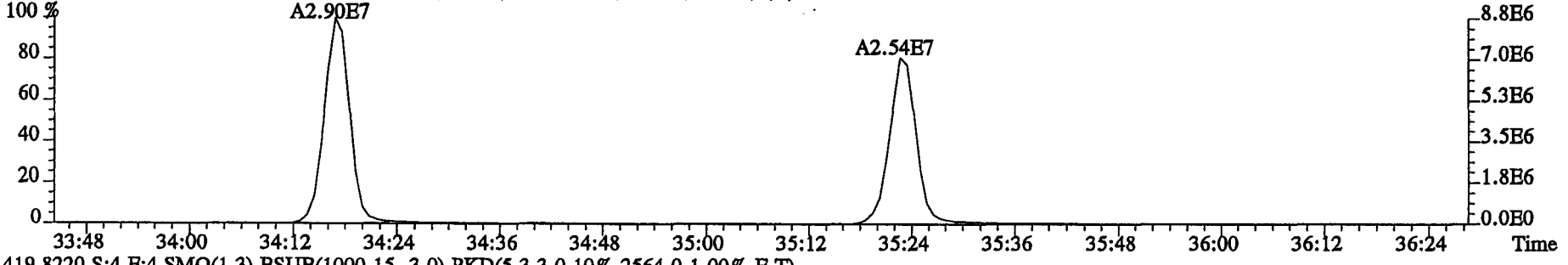
File:14DE10A9D5 #1-208 Acq:14-DEC-2010 17:07:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST1214A :CS-2 10DXN504 Exp:DIOXINRES
407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7672.0,1.00%,F,T)



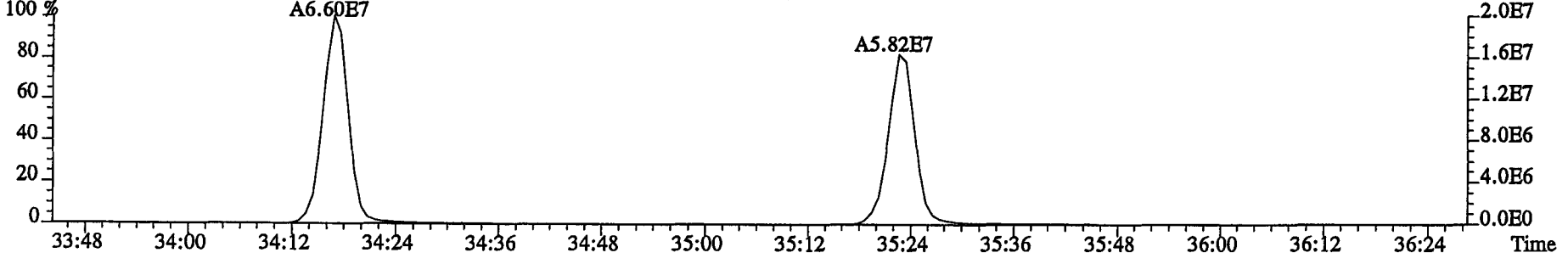
409.7789 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2920.0,1.00%,F,T)



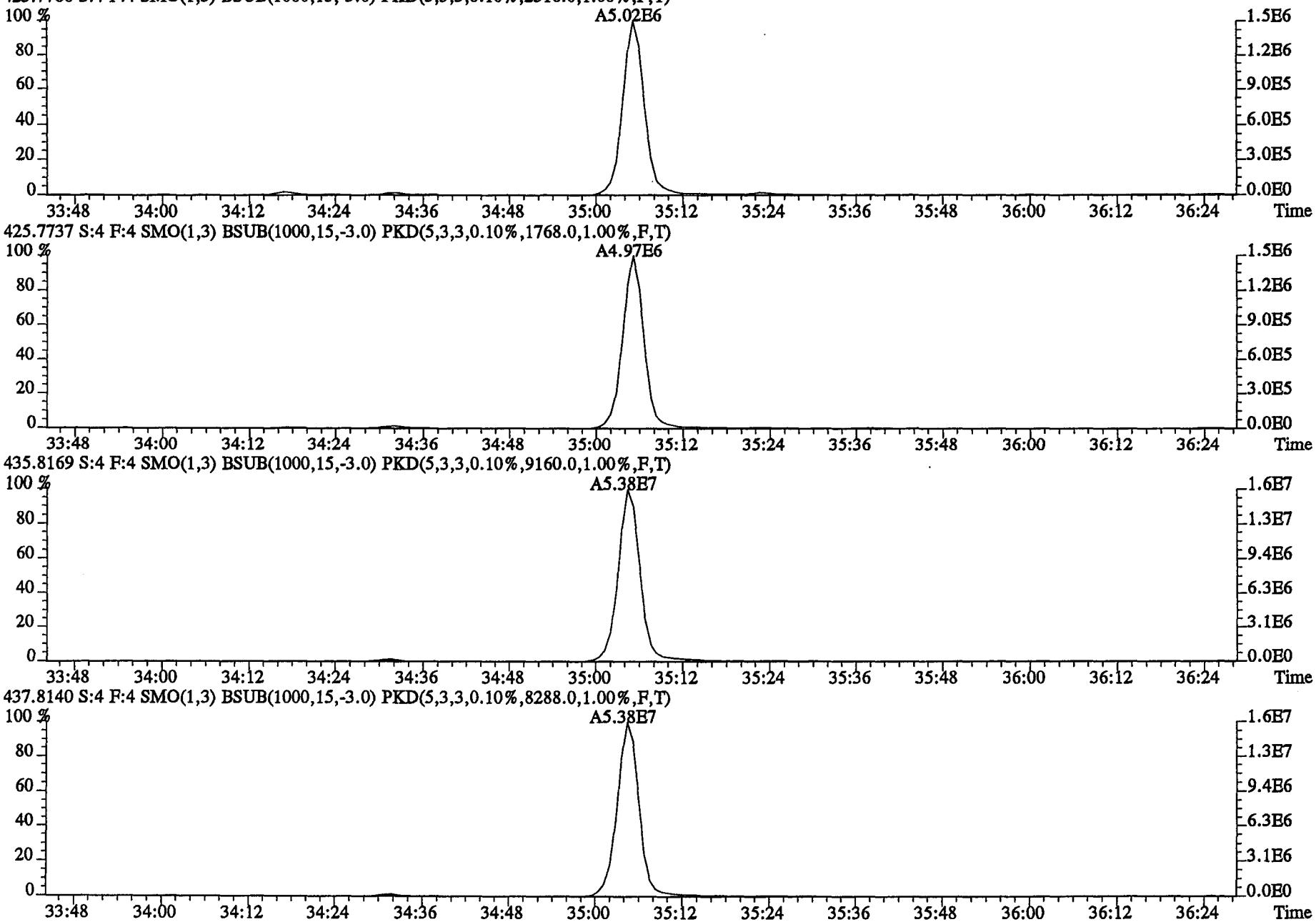
417.8253 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7732.0,1.00%,F,T)



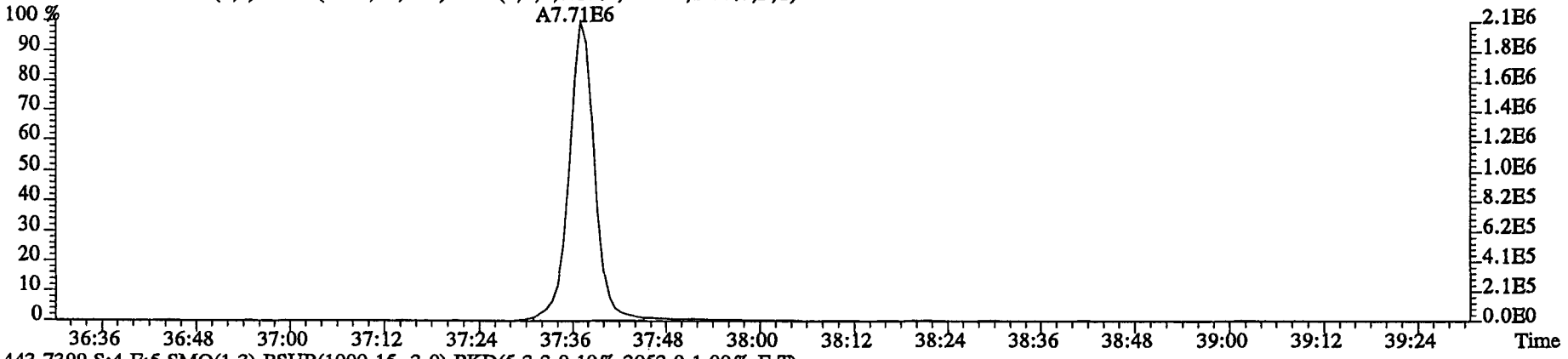
419.8220 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2564.0,1.00%,F,T)



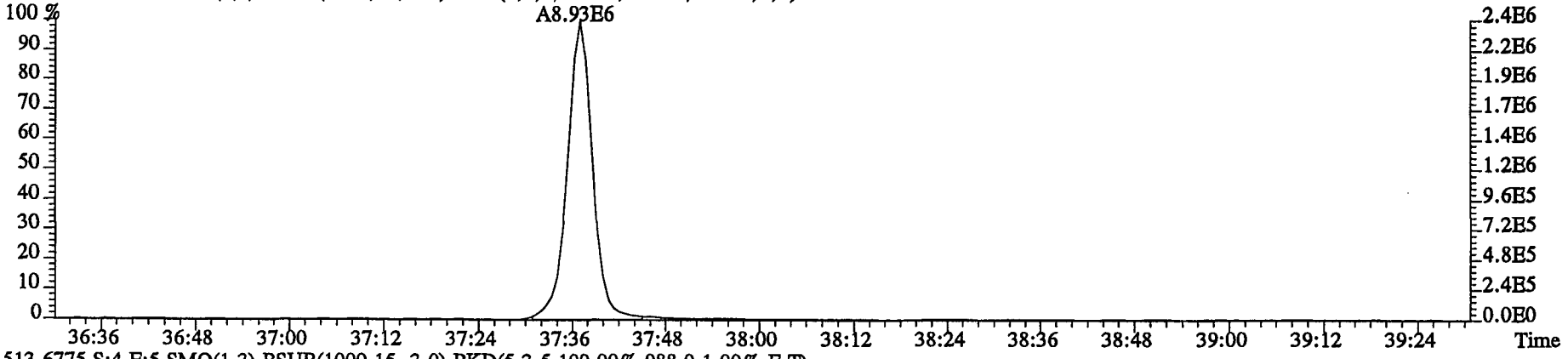
File:14DE10A9D5 #1-208 Acq:14-DEC-2010 17:07:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST1214A :CS-2 10DXN504 Exp:DIOXINRES



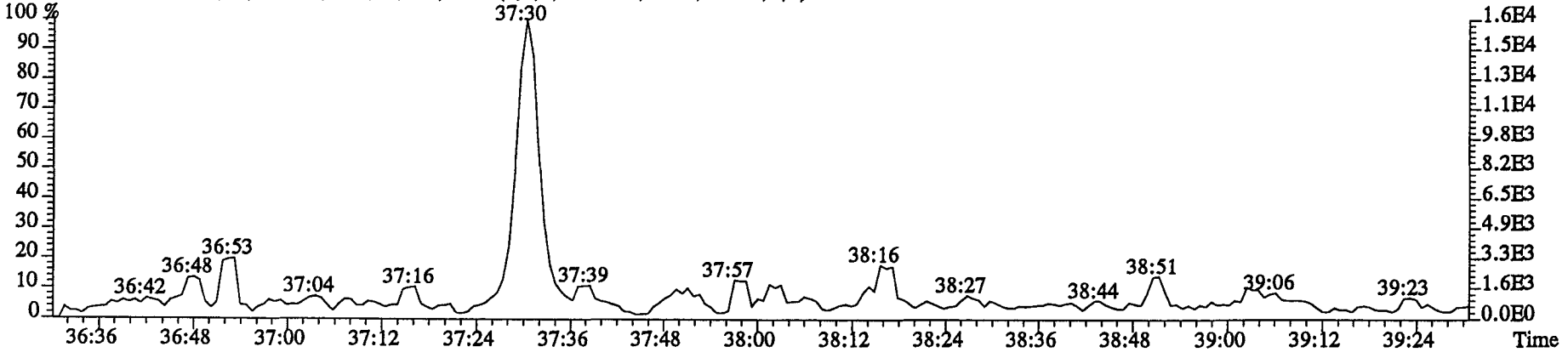
File:14DE10A9D5 #1-244 Acq:14-DEC-2010 17:07:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST1214A :CS-2 10DXN504 Exp:DIOXINRES
441.7428 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1768.0,1.00%,F,T)



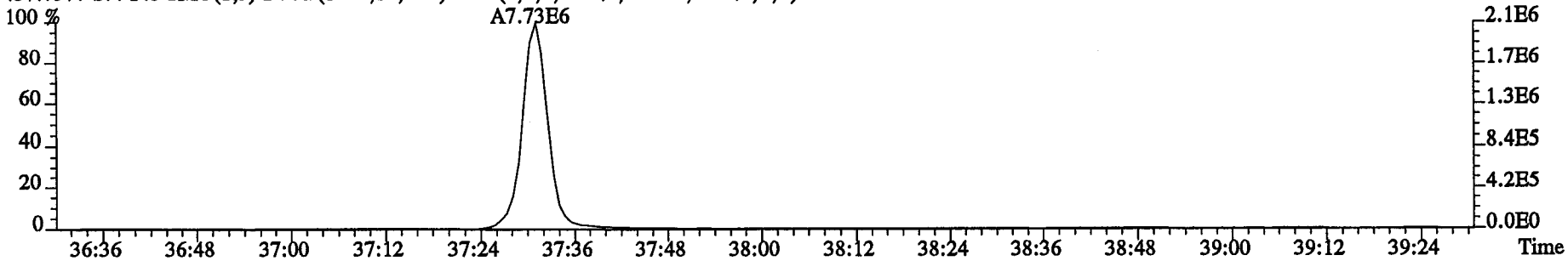
443.7399 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3052.0,1.00%,F,T)



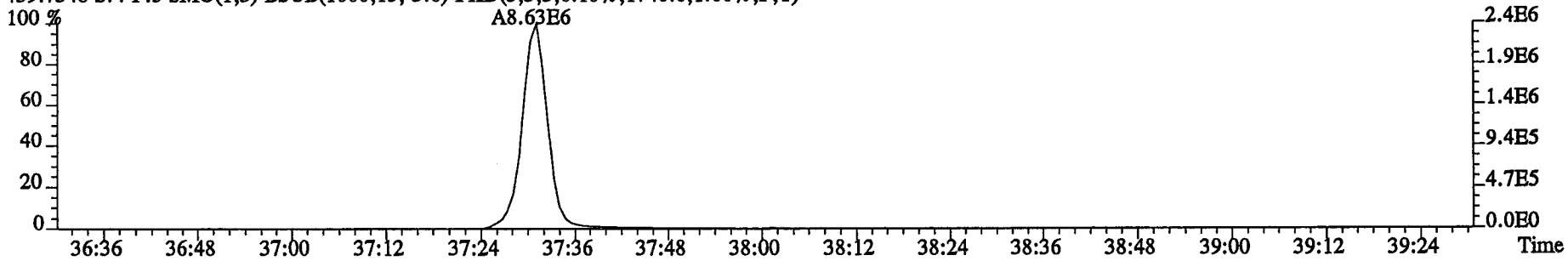
513.6775 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,988.0,1.00%,F,T)



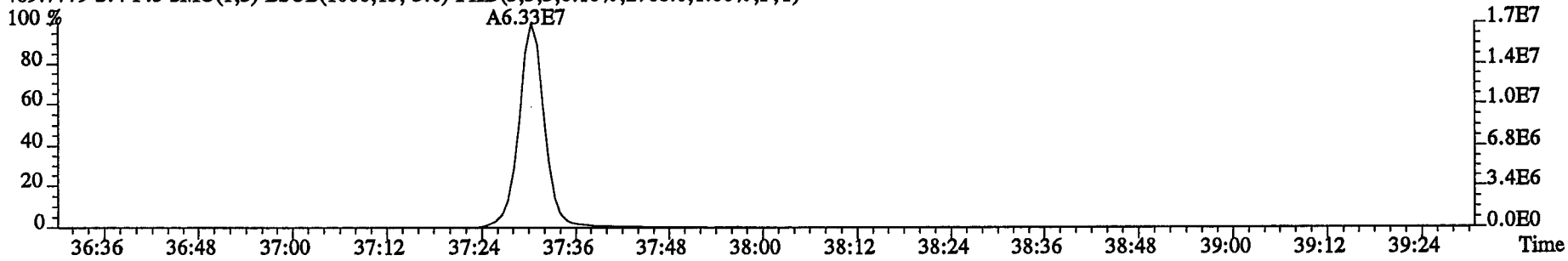
File:14DE10A9D5 #1-244 Acq:14-DEC-2010 17:07:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST1214A :CS-2 10DXN504 Exp:DIOXINRES
457.7377 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4560.0,1.00%,F,T)



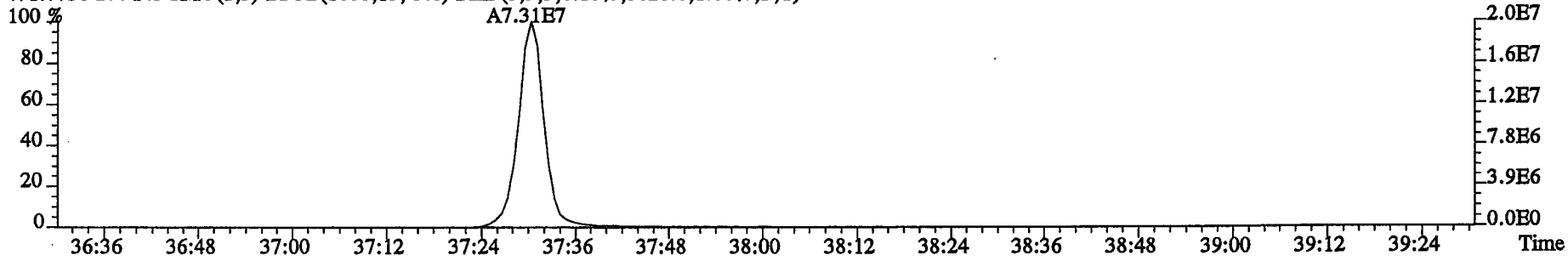
459.7348 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1740.0,1.00%,F,T)



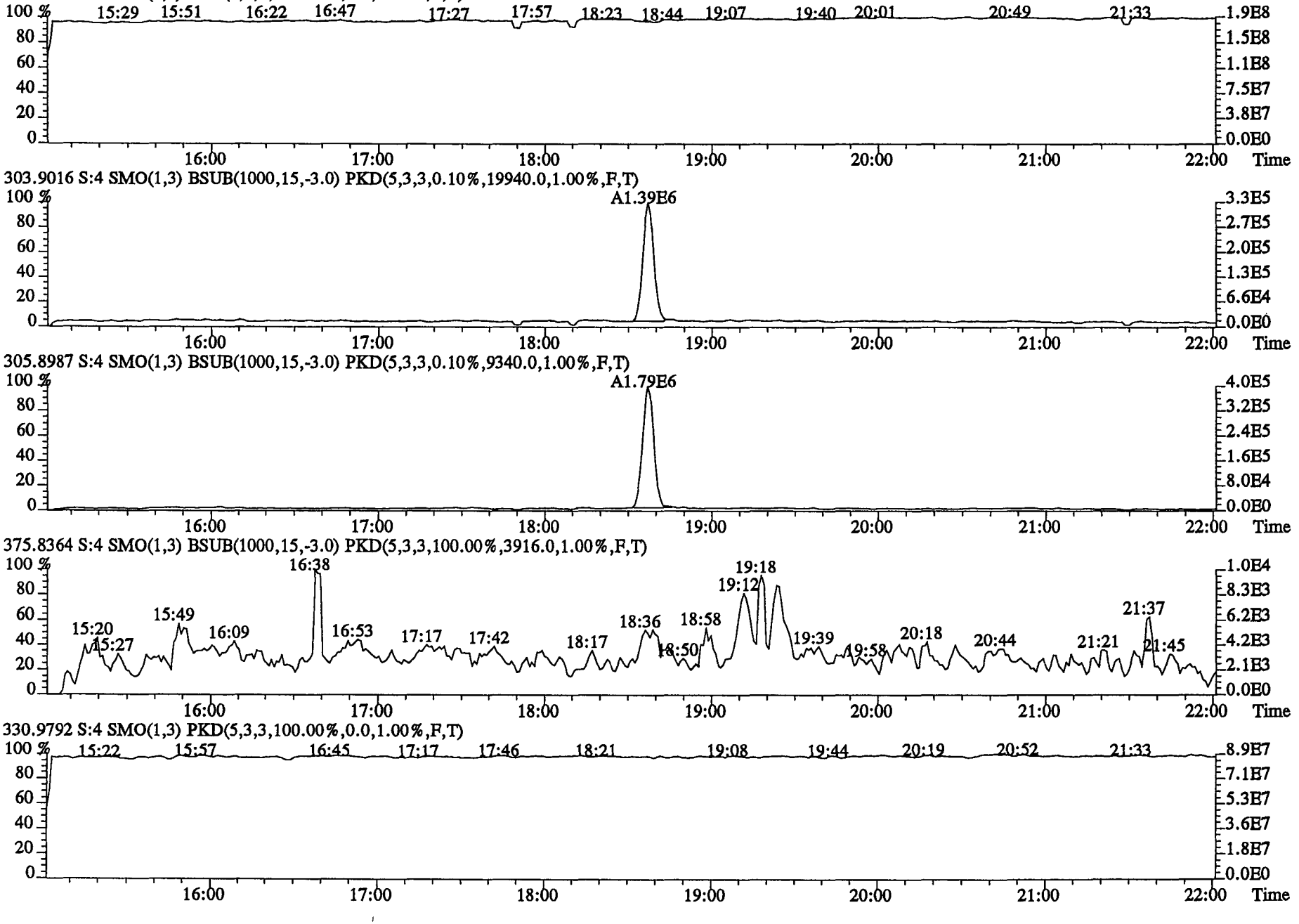
469.7779 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2768.0,1.00%,F,T)



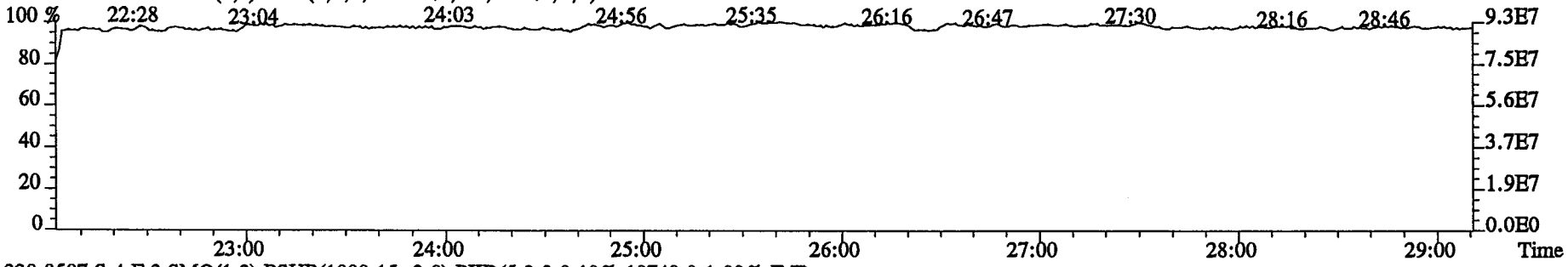
471.7750 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5020.0,1.00%,F,T)



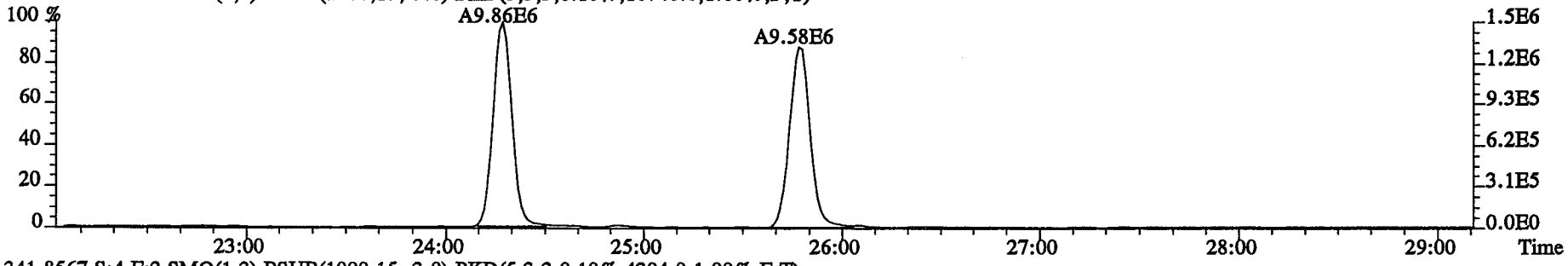
File:14DE10A9D5 #1-464 Acq:14-DEC-2010 17:07:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST1214A :CS-2 10DXN504 Exp:DIOXINRES



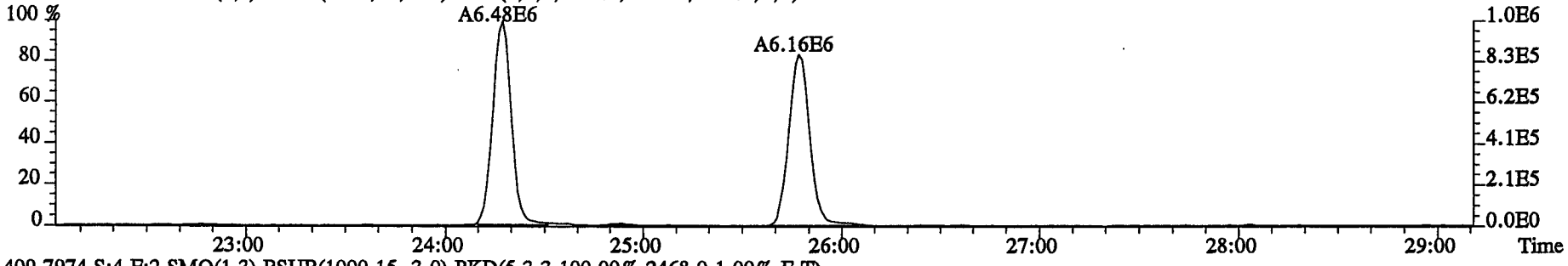
File:14DE10A9D5 #1-459 Acq:14-DEC-2010 17:07:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST1214A :CS-2 10DXN504 Exp:DIOXINRES
342.9792 S:4 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



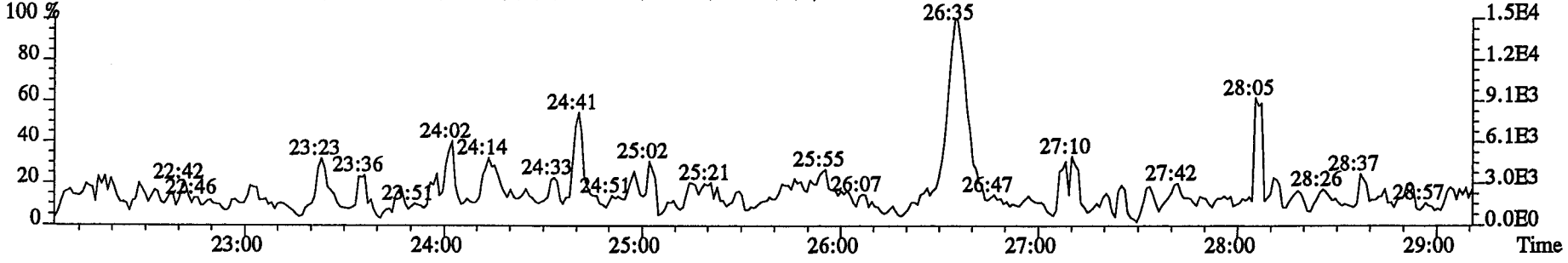
339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10740.0,1.00%,F,T)



341.8567 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4304.0,1.00%,F,T)

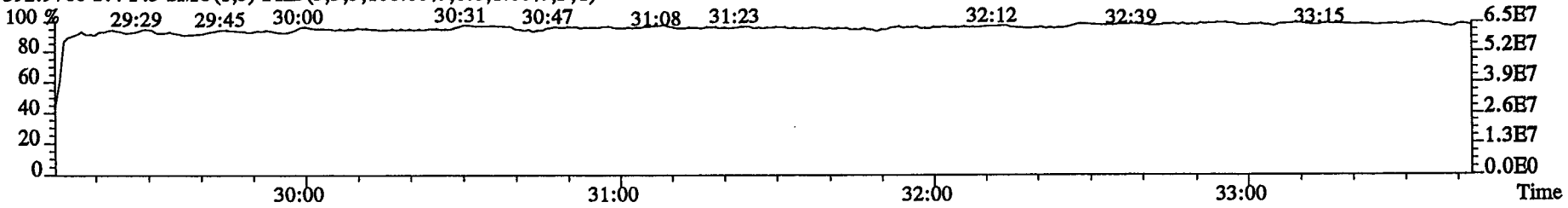


409.7974 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2468.0,1.00%,F,T)

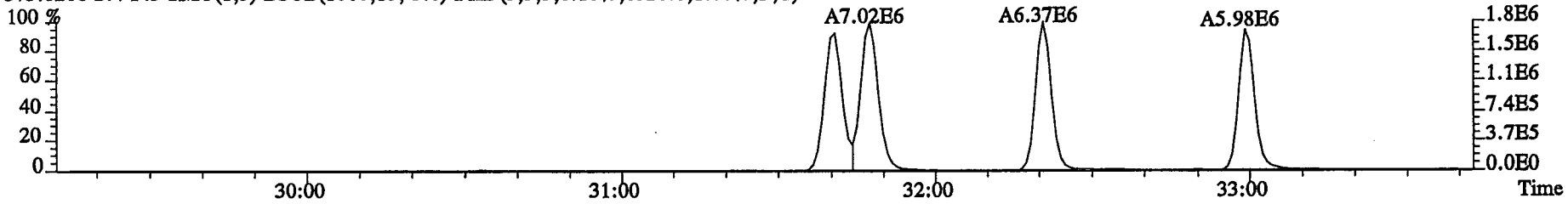


File:14DE10A9D5 #1-325 Acq:14-DEC-2010 17:07:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST1214A :CS-2 10DXN504 Exp:DIOXINRES

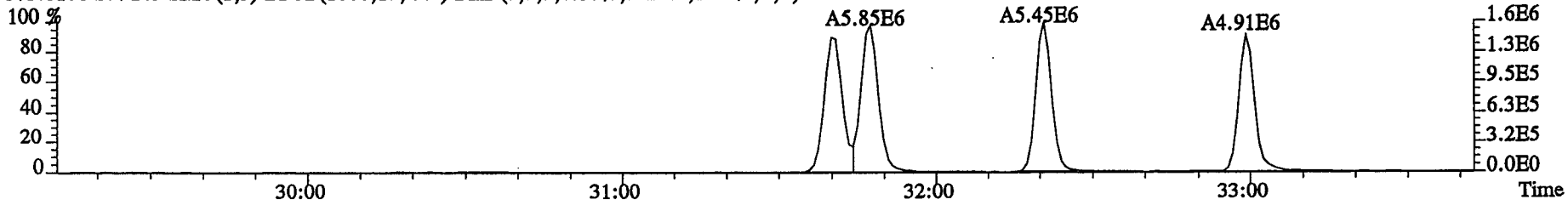
392.9760 S:4 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



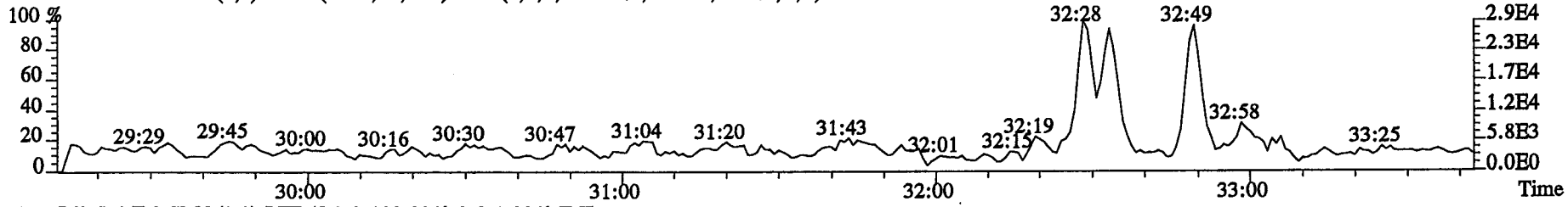
373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8520.0,1.00%,F,T)



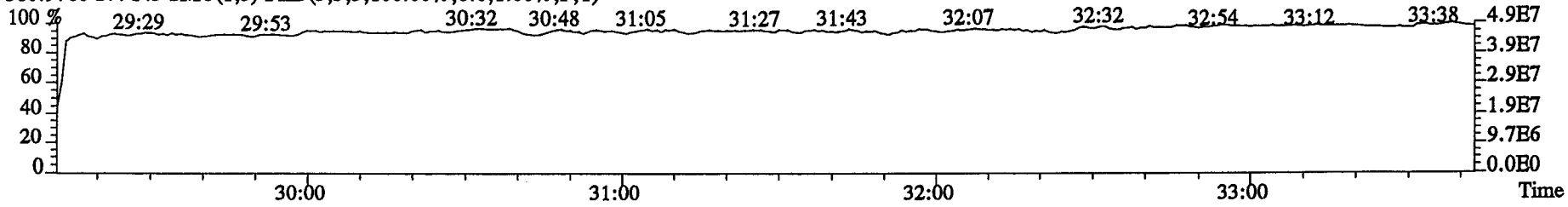
375.8178 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3320.0,1.00%,F,T)



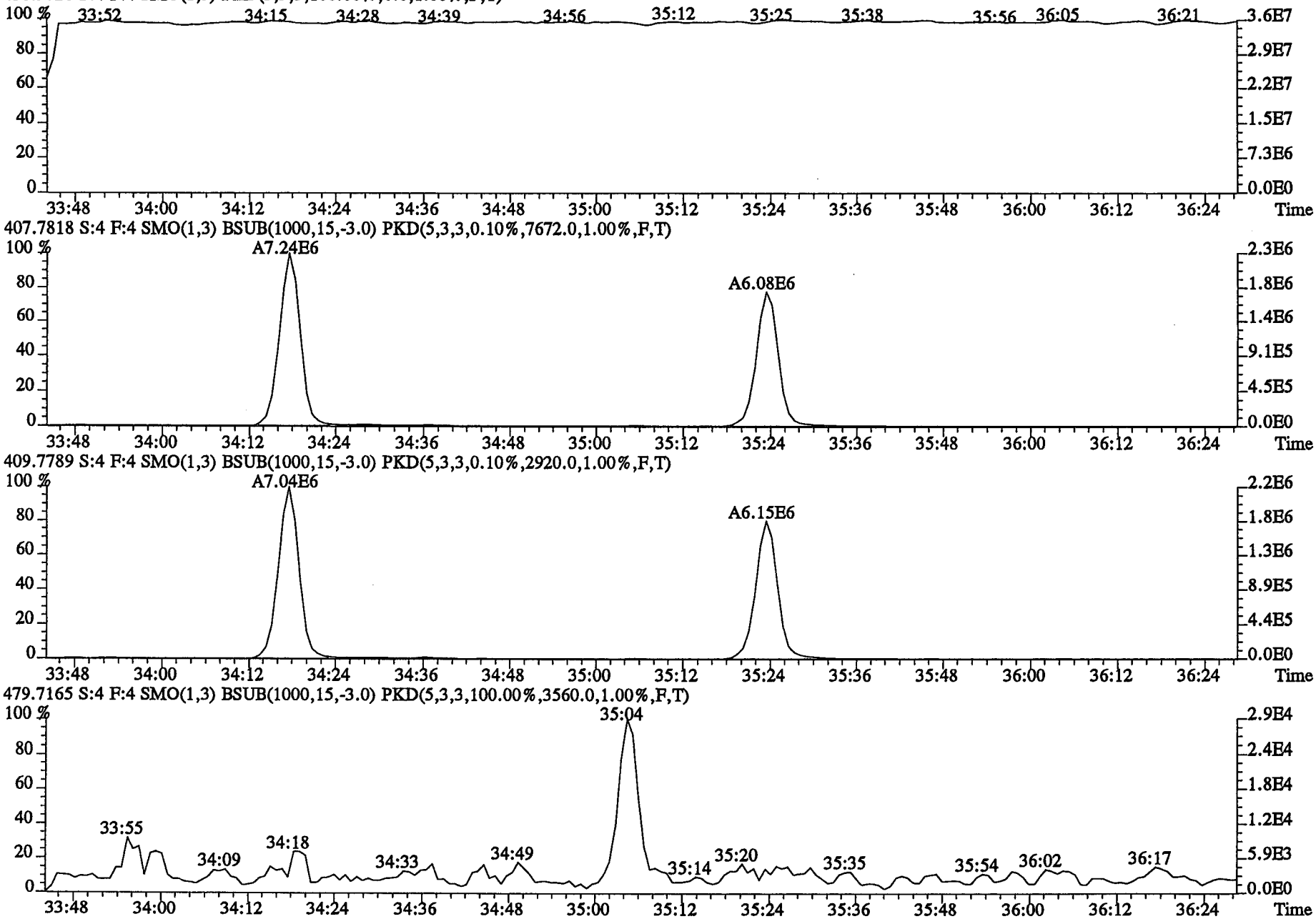
445.7555 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,4788.0,1.00%,F,T)



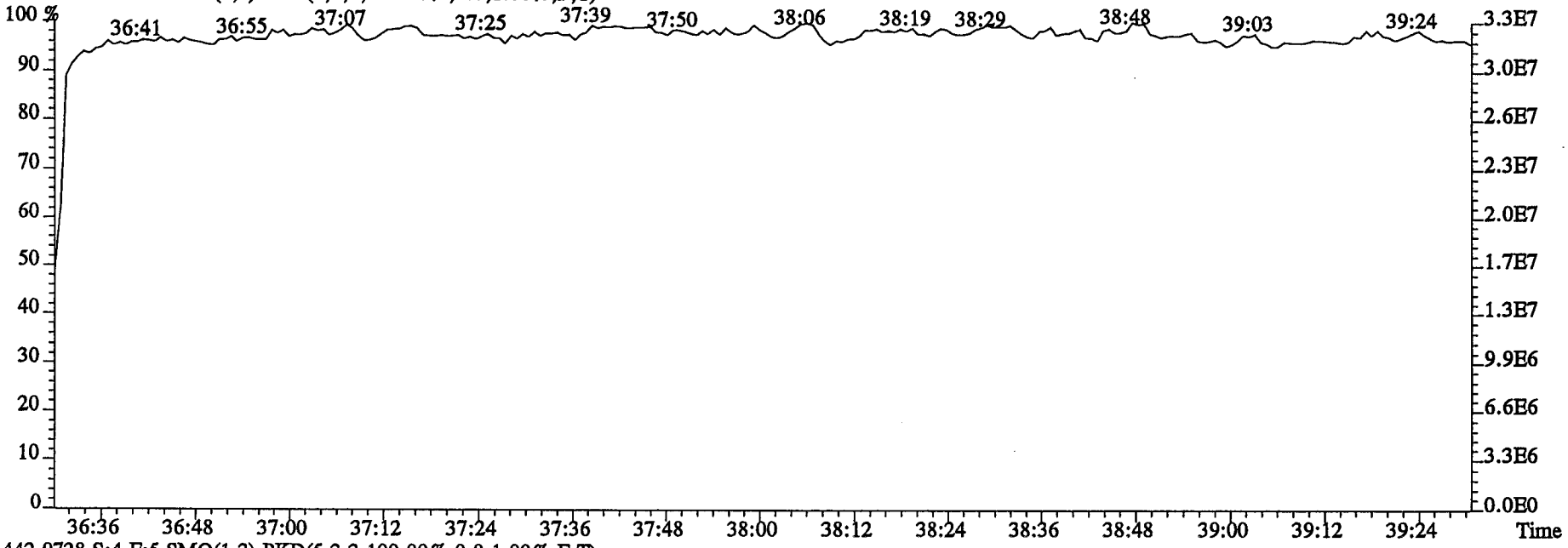
380.9760 S:4 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



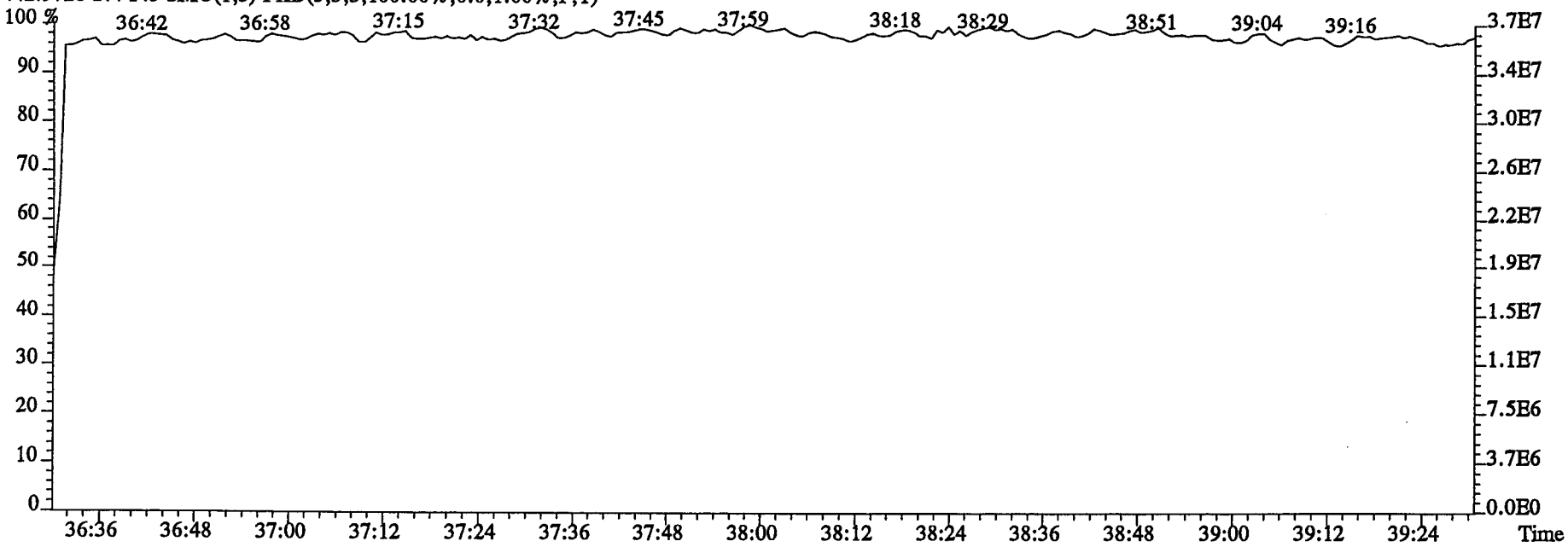
File:14DE10A9D5 #1-208 Acq:14-DEC-2010 17:07:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST1214A :CS-2 10DXN504 Exp:DIOXINRES



File:14DE10A9D5 #1-244 Acq:14-DEC-2010 17:07:24 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST1214A :CS-2 10DXN504 Exp:DIOXINRES
454.9728 S:4 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

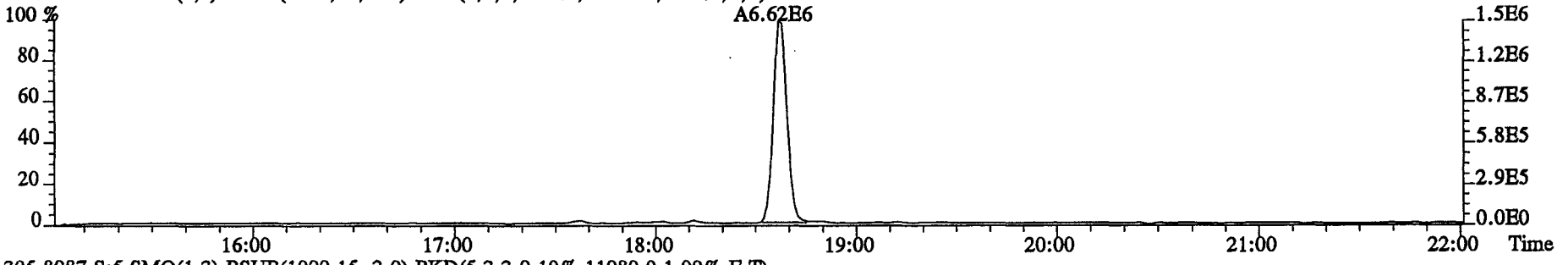


442.9728 S:4 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

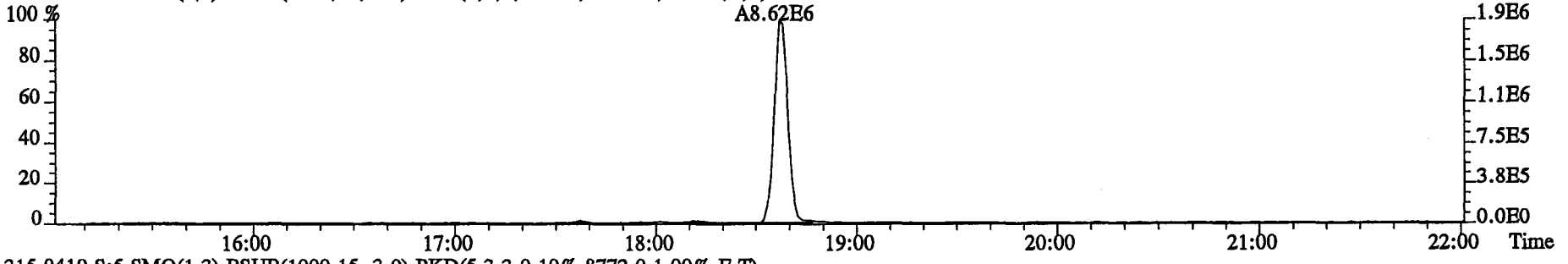


File:14DE10A9D5 #1-464 Acq:14-DEC-2010 17:51:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST1214B :CS-3 10DXN505 Exp:DIOXINRES

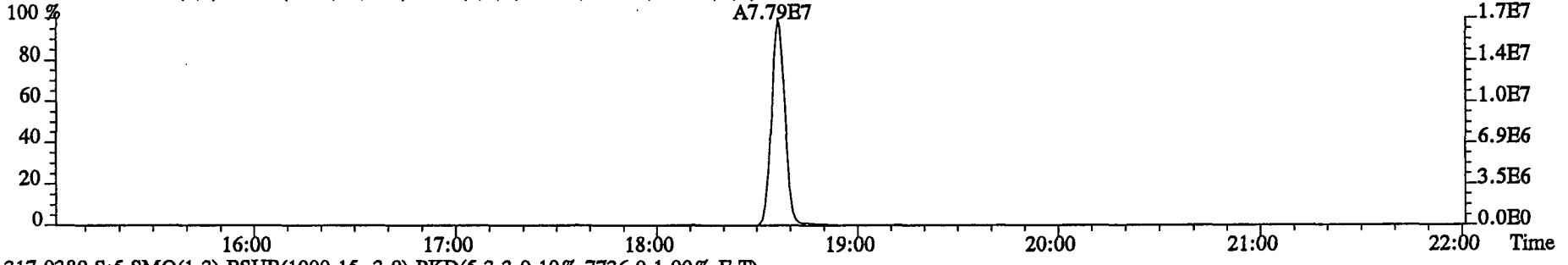
303.9016 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20672.0,1.00%,F,T)



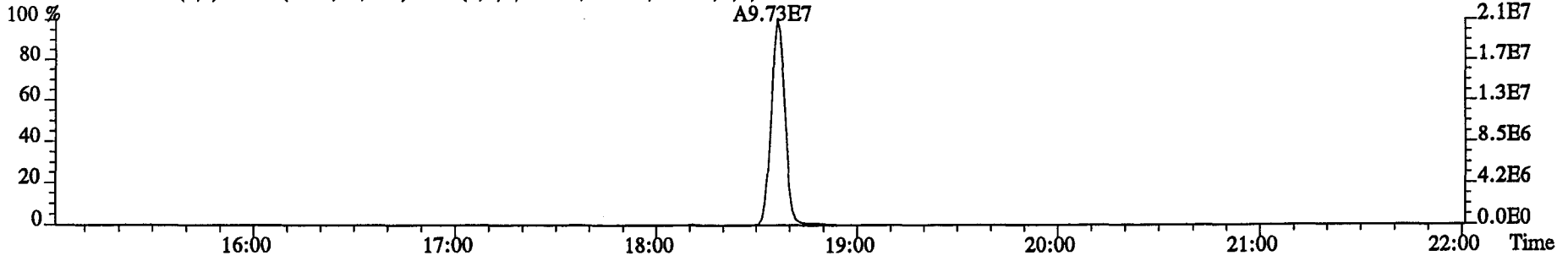
305.8987 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11080.0,1.00%,F,T)



315.9419 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8772.0,1.00%,F,T)

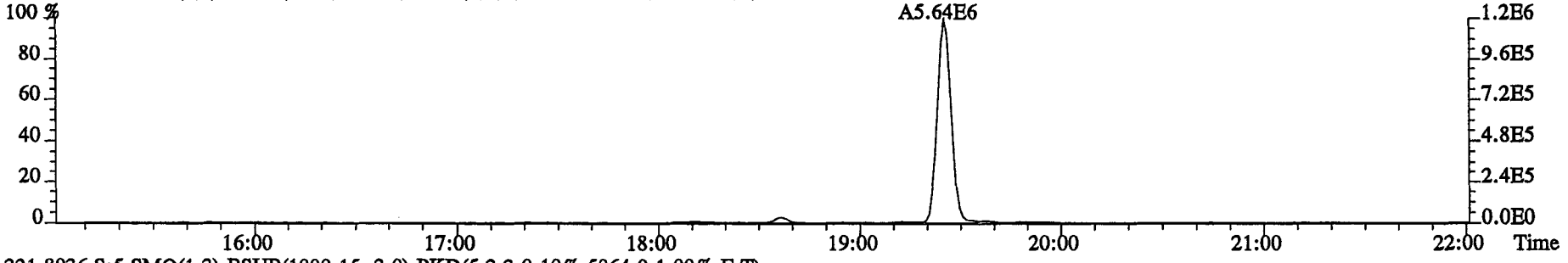


317.9389 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7736.0,1.00%,F,T)

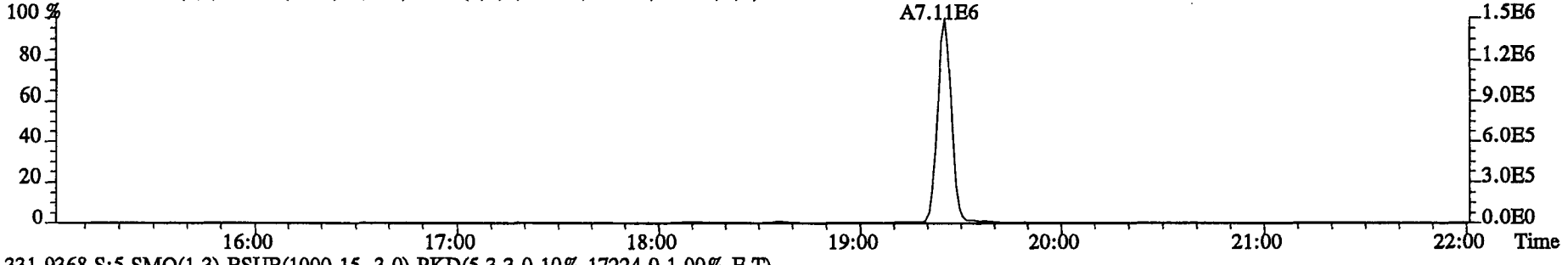


File:14DE10A9D5 #1-464 Acq:14-DEC-2010 17:51:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST1214B :CS-3 10DXN505 Exp:DIOXINRES

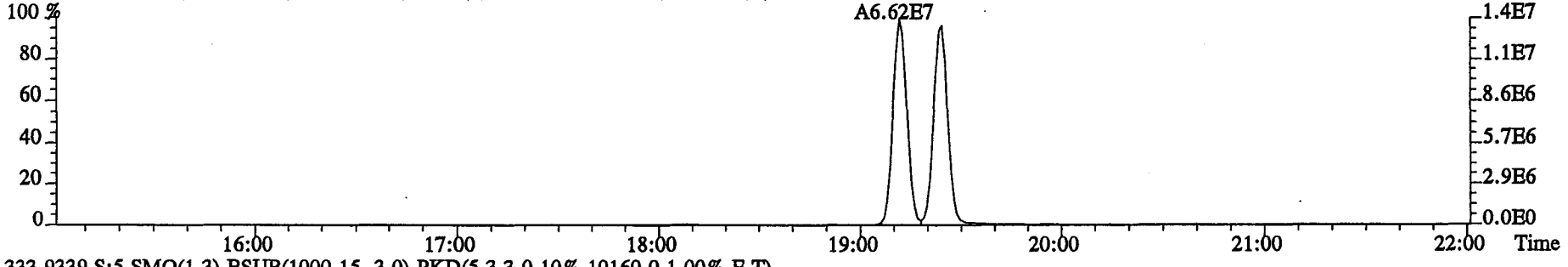
319.8965 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5296.0,1.00%,F,T)



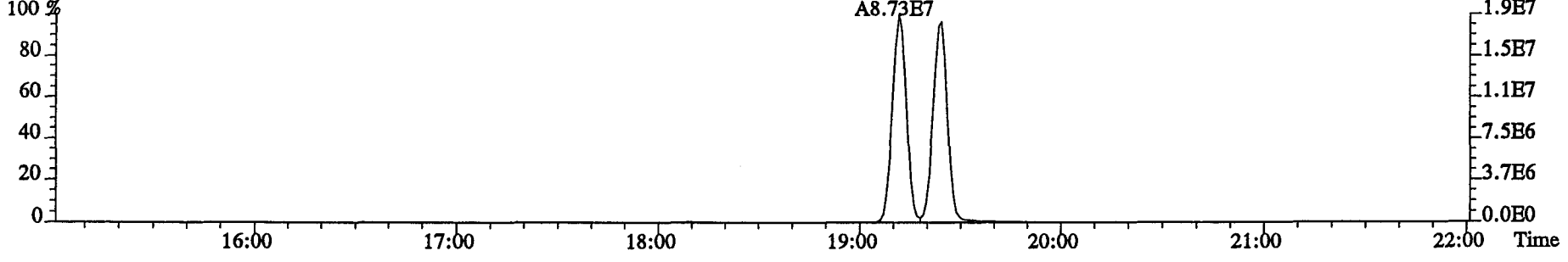
321.8936 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5064.0,1.00%,F,T)



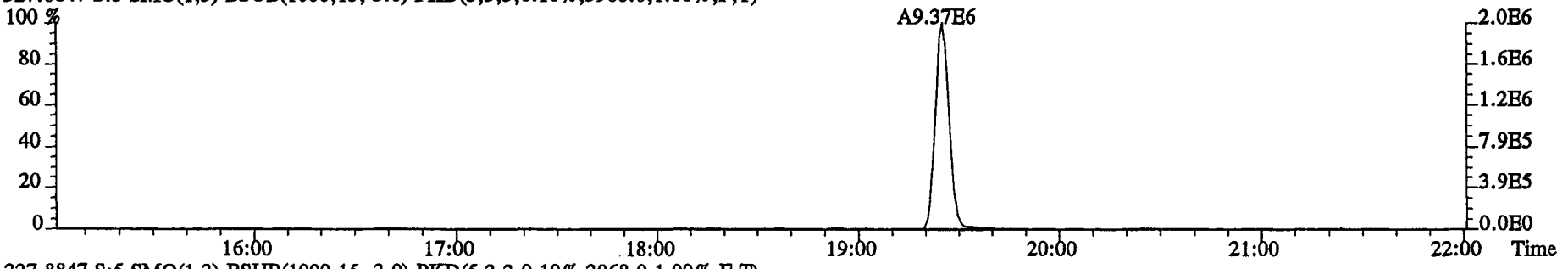
331.9368 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17224.0,1.00%,F,T)

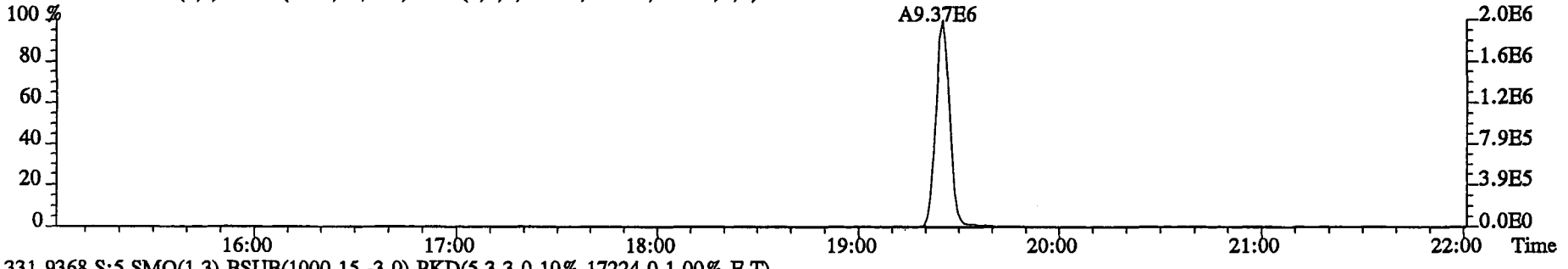


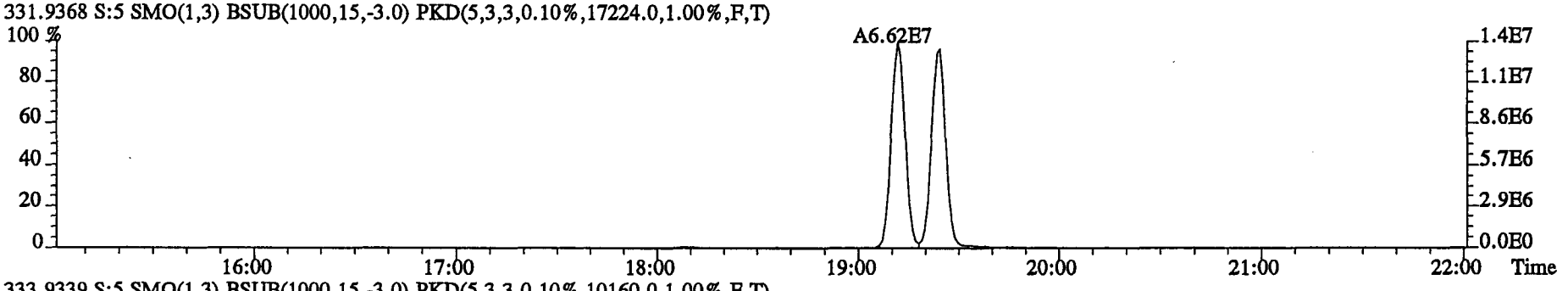
333.9339 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10160.0,1.00%,F,T)

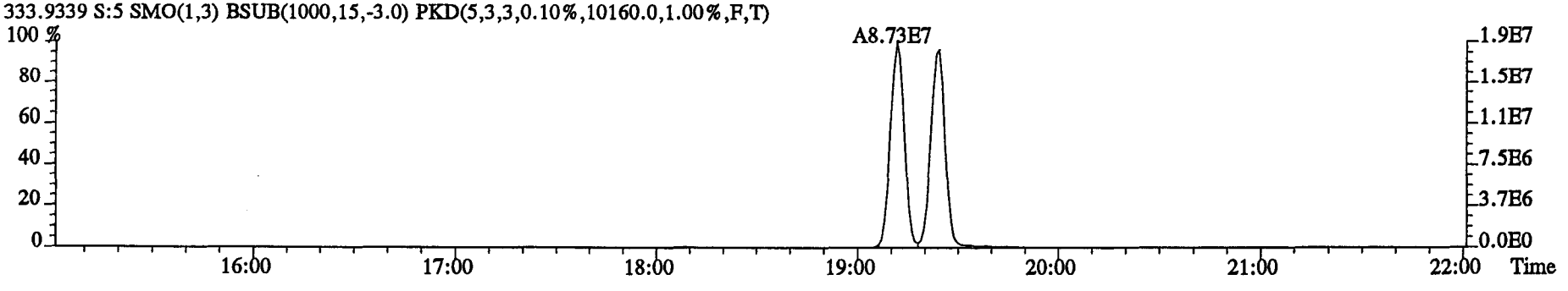


File:14DE10A9D5 #1-464 Acq:14-DEC-2010 17:51:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST1214B :CS-3 10DXN505 Exp:DIOXINRES

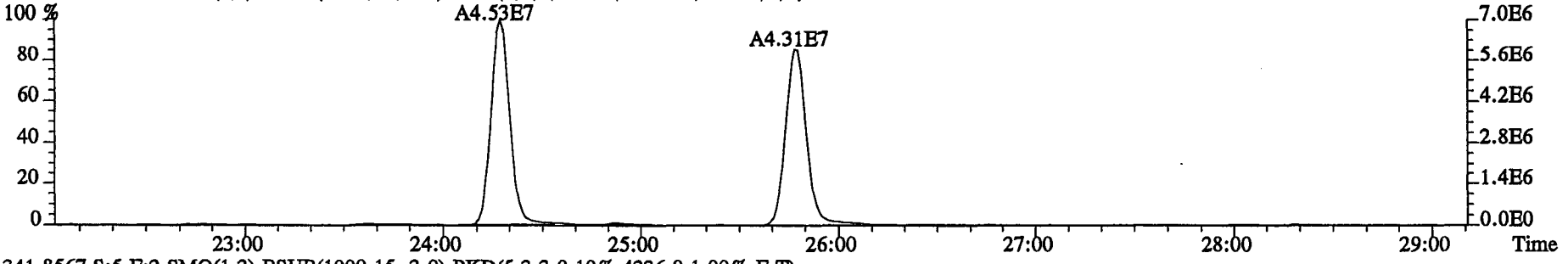




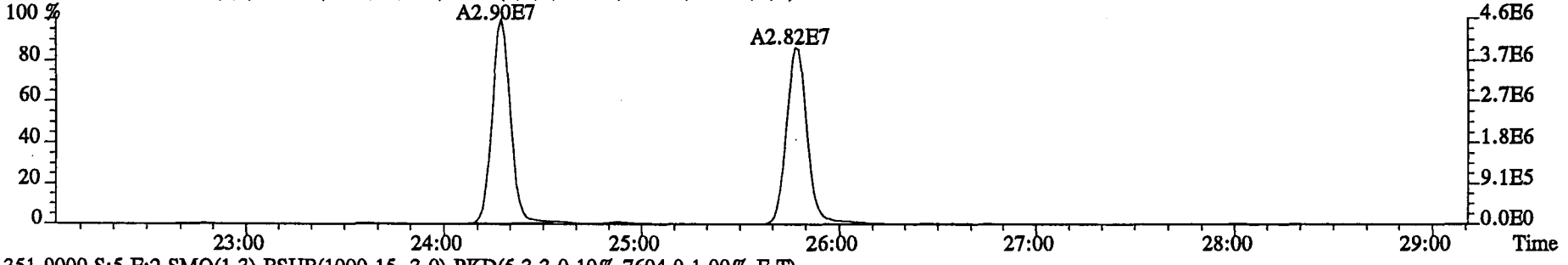




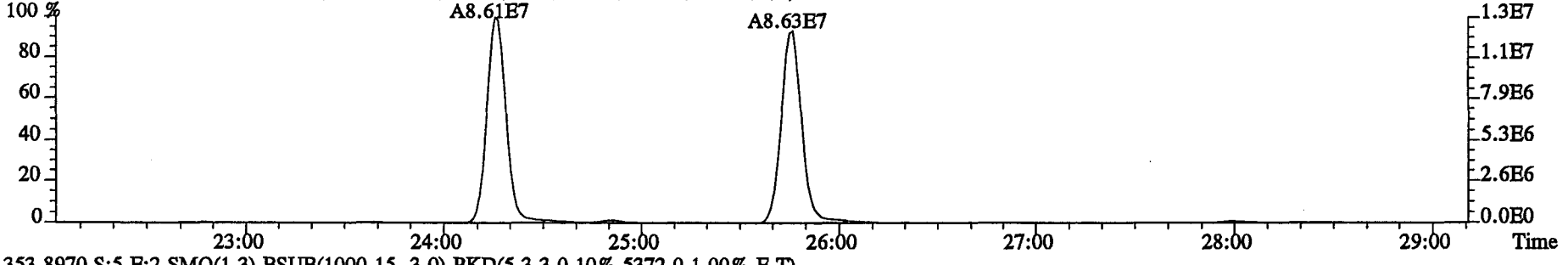
File:14DE10A9D5 #1-459 Acq:14-DEC-2010 17:51:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST1214B :CS-3 10DXN505 Exp:DIOXINRES
339.8597 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11176.0,1.00%,F,T)



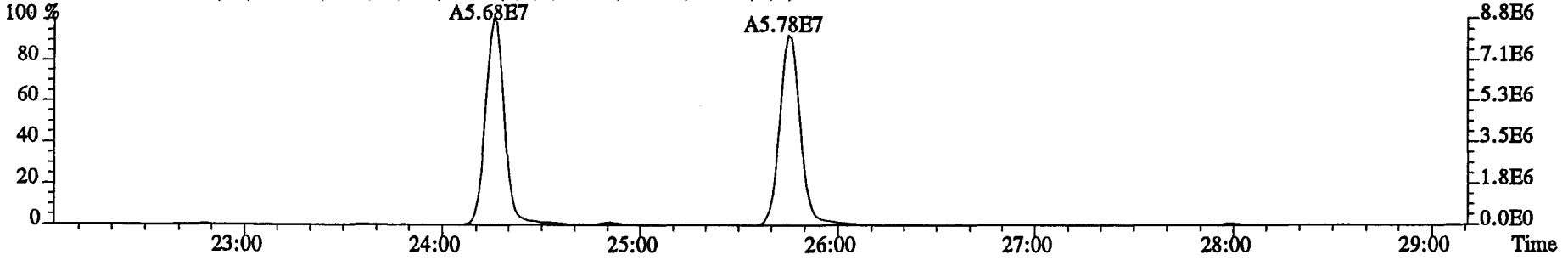
341.8567 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4236.0,1.00%,F,T)



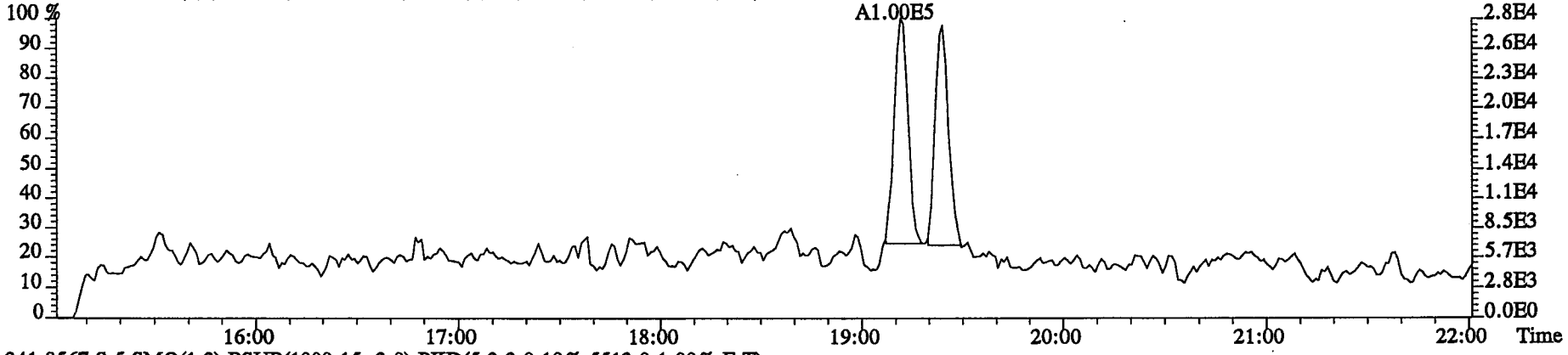
351.9000 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7604.0,1.00%,F,T)



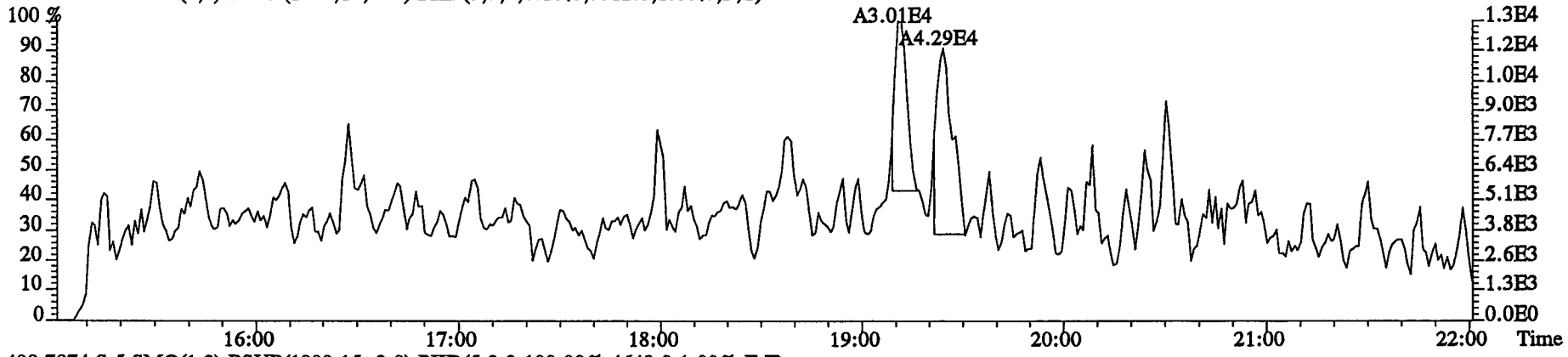
353.8970 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5372.0,1.00%,F,T)



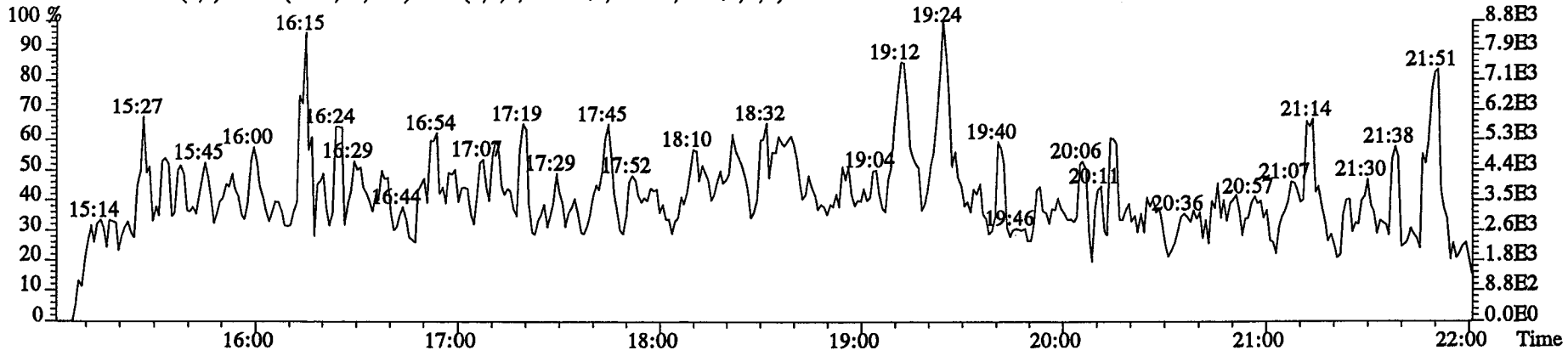
File:14DE10A9D5 #1-464 Acq:14-DEC-2010 17:51:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST1214B :CS-3 10DXN505 Exp:DIOXINRES
339.8597 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7120.0,1.00%,F,T)



341.8567 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5512.0,1.00%,F,T)

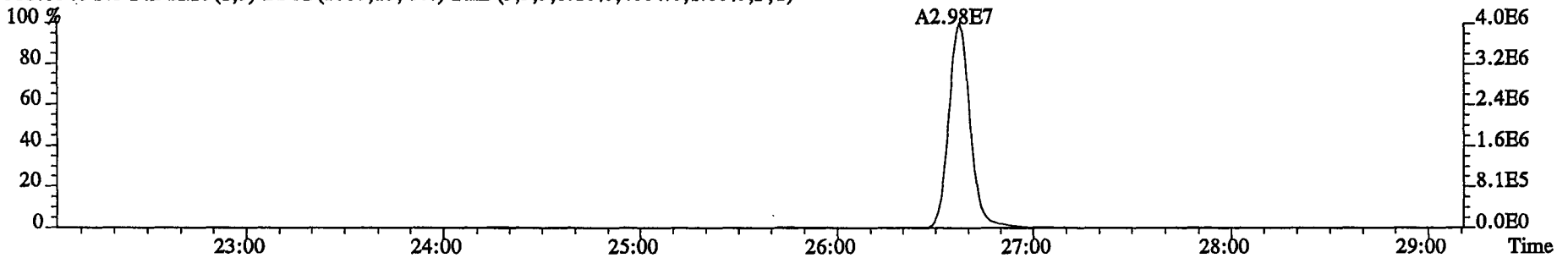


409.7974 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,4648.0,1.00%,F,T)

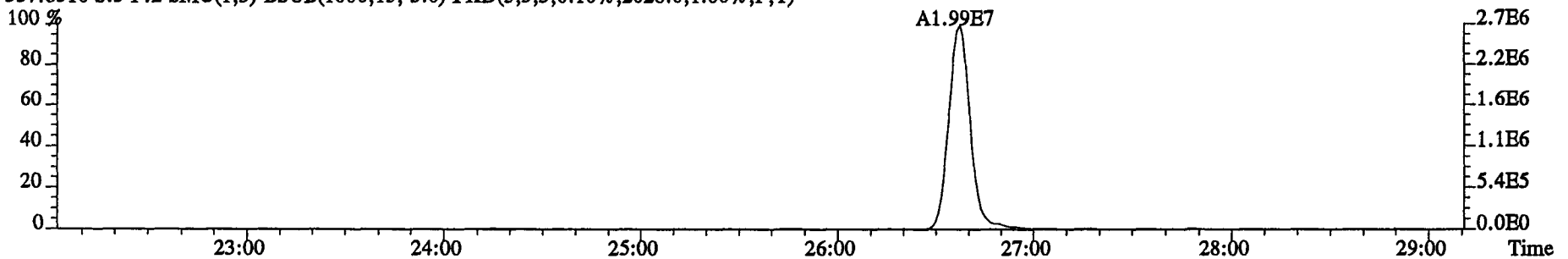


File:14DE10A9D5 #1-459 Acq:14-DEC-2010 17:51:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST1214B :CS-3 10DXN505 Exp:DIOXINRES

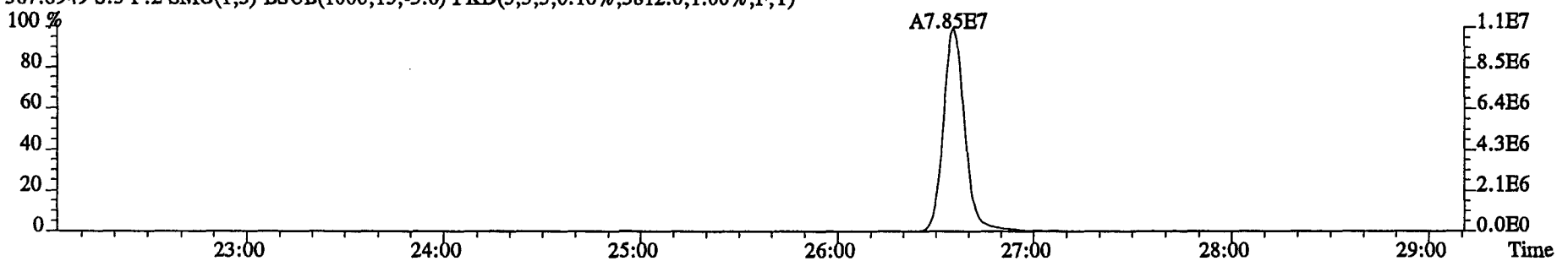
355.8546 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4004.0,1.00%,F,T)



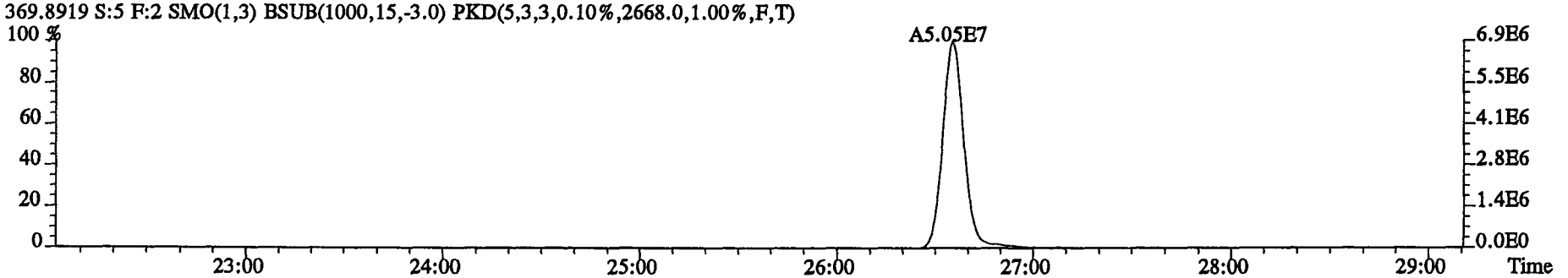
357.8516 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2028.0,1.00%,F,T)



367.8949 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3812.0,1.00%,F,T)

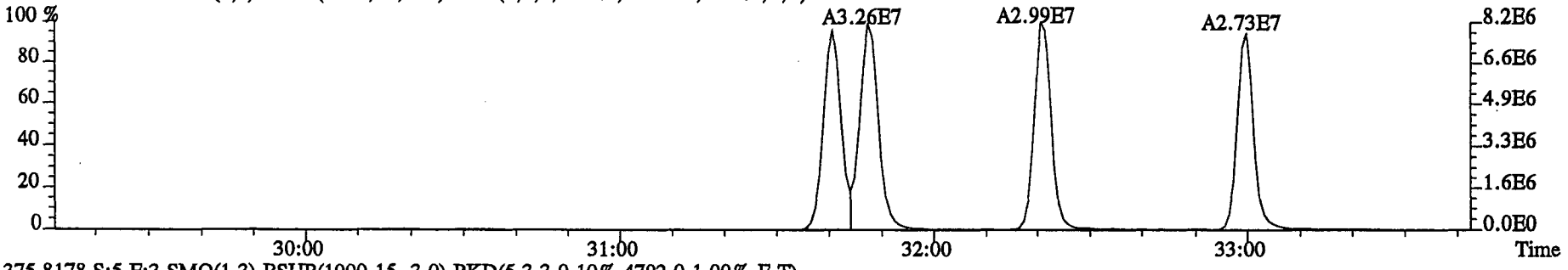


369.8919 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2668.0,1.00%,F,T)

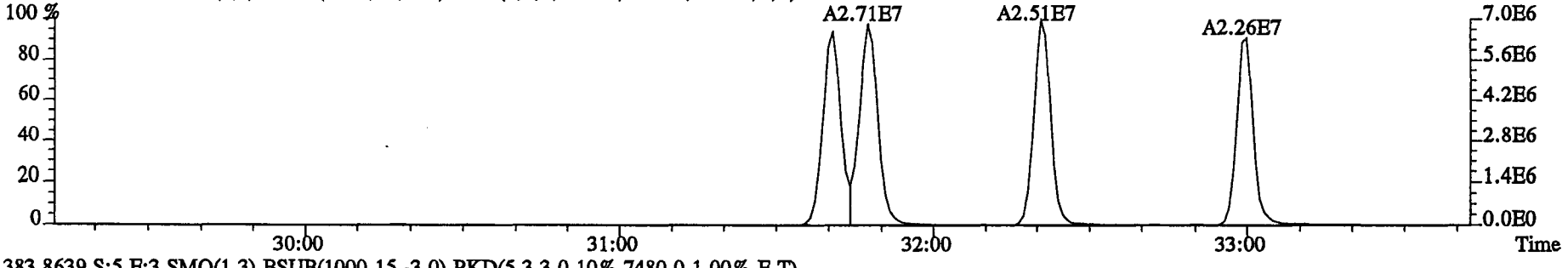


File:14DE10A9D5 #1-325 Acq:14-DEC-2010 17:51:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST1214B :CS-3 10DXN505 Exp:DIOXINRES

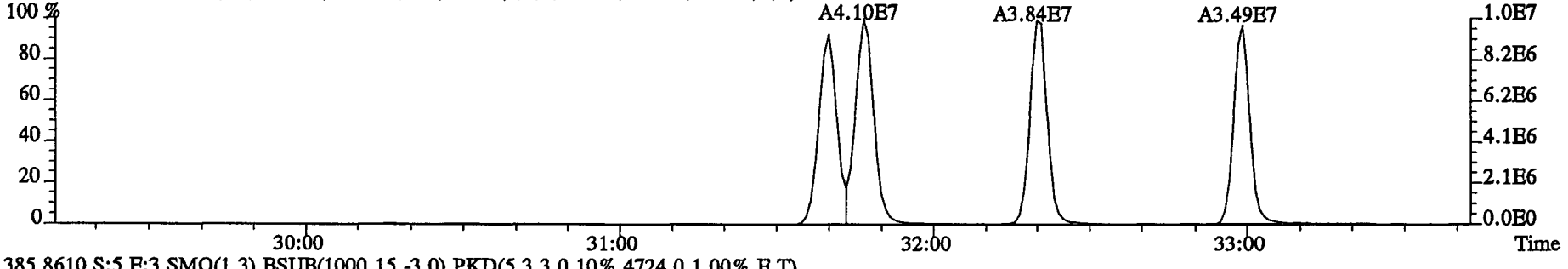
373.8208 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10928.0,1.00%,F,T)



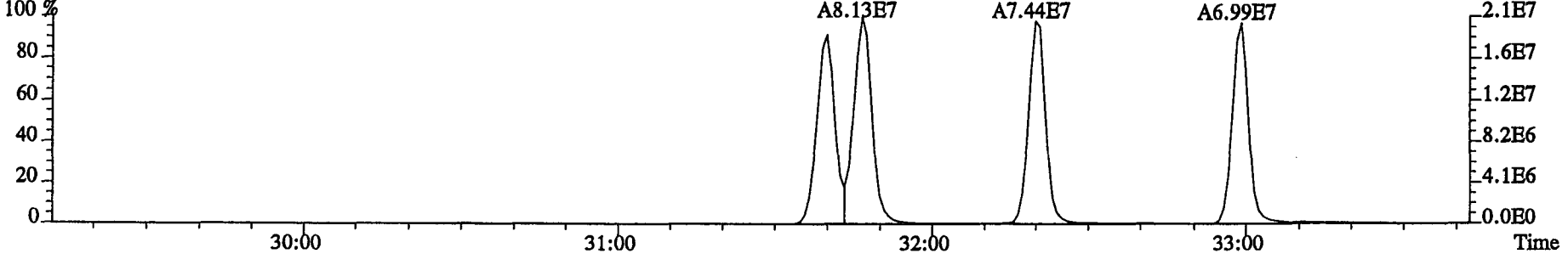
375.8178 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4792.0,1.00%,F,T)



383.8639 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7480.0,1.00%,F,T)

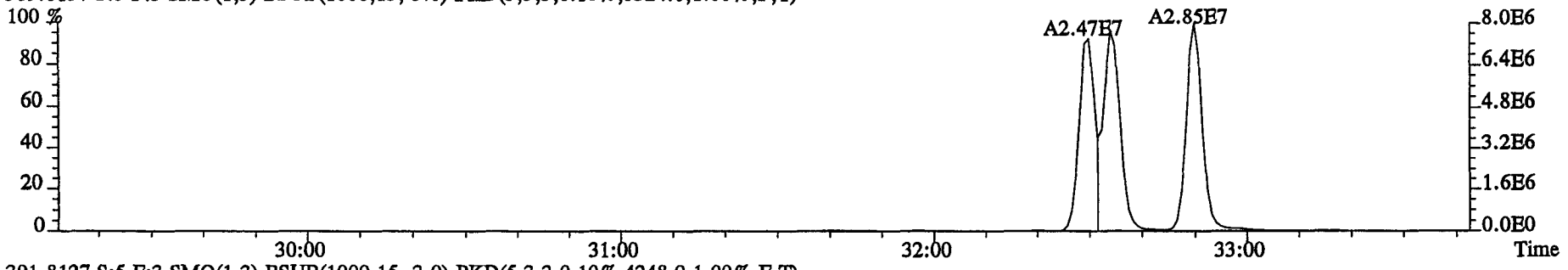


385.8610 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4724.0,1.00%,F,T)

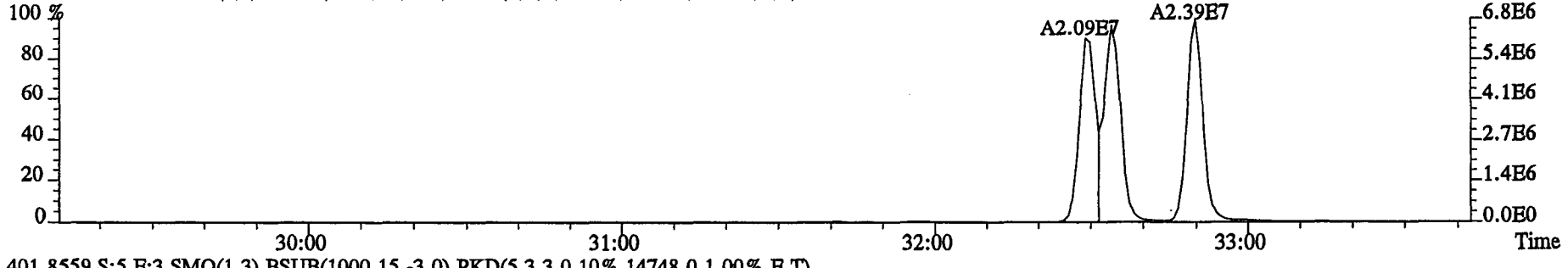


File:14DE10A9D5 #1-325 Acq:14-DEC-2010 17:51:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST1214B :CS-3 10DXN505 Exp:DIOXINRES

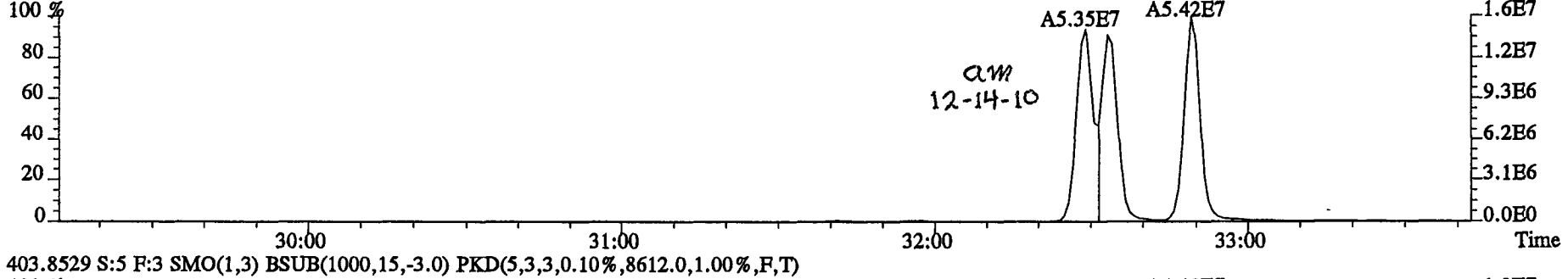
389.8157 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5324.0,1.00%,F,T)



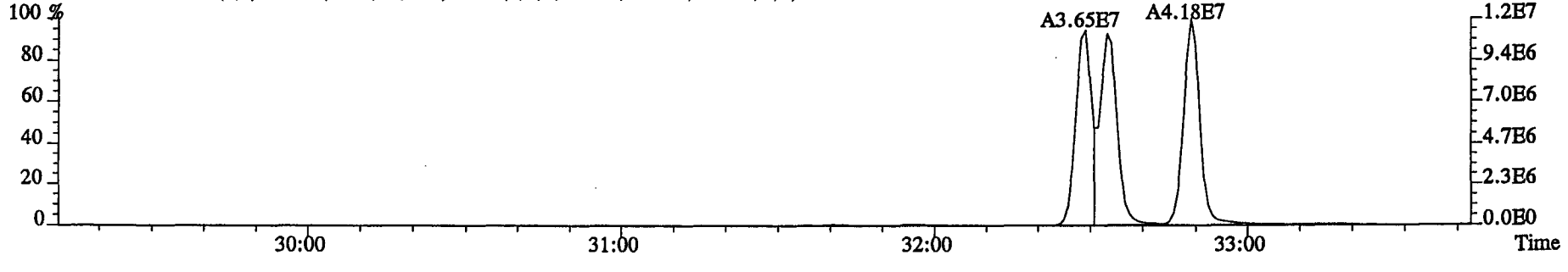
391.8127 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4248.0,1.00%,F,T)



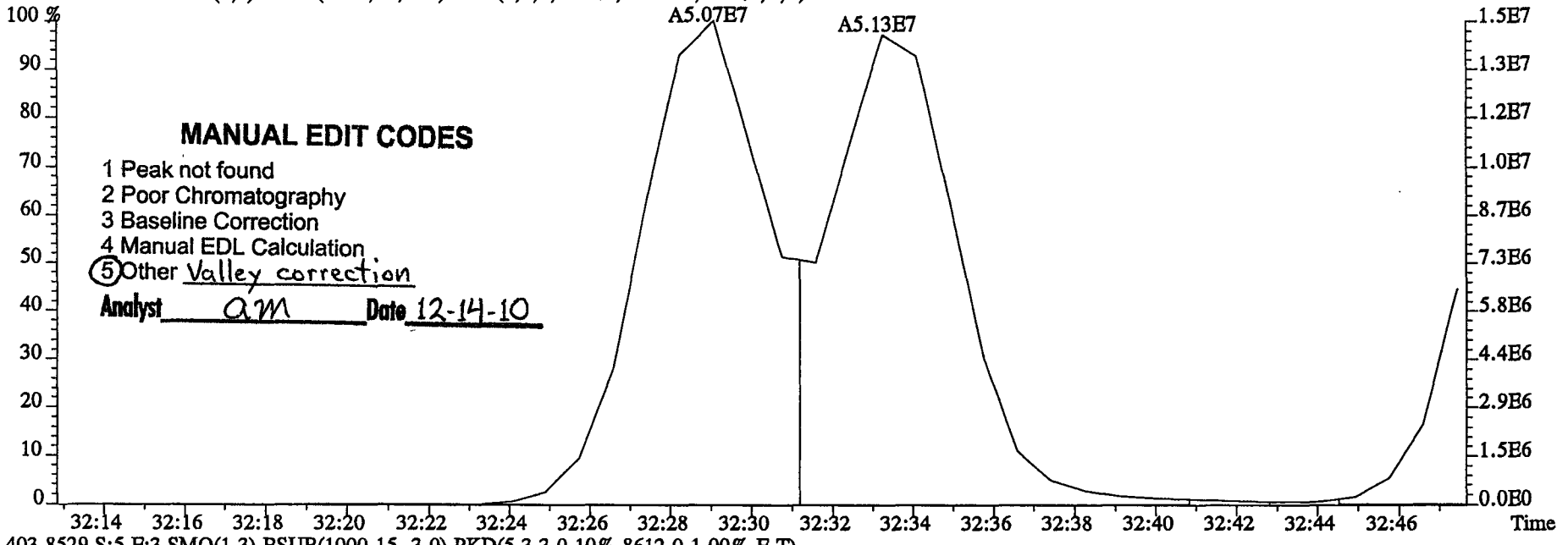
401.8559 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14748.0,1.00%,F,T)



403.8529 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8612.0,1.00%,F,T)



File:14DE10A9D5 #1-325 Acq:14-DEC-2010 17:51:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST1214B :CS-3 10DXN505 Exp:DIOXINRES
401.8559 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14748.0,1.00%,F,T)

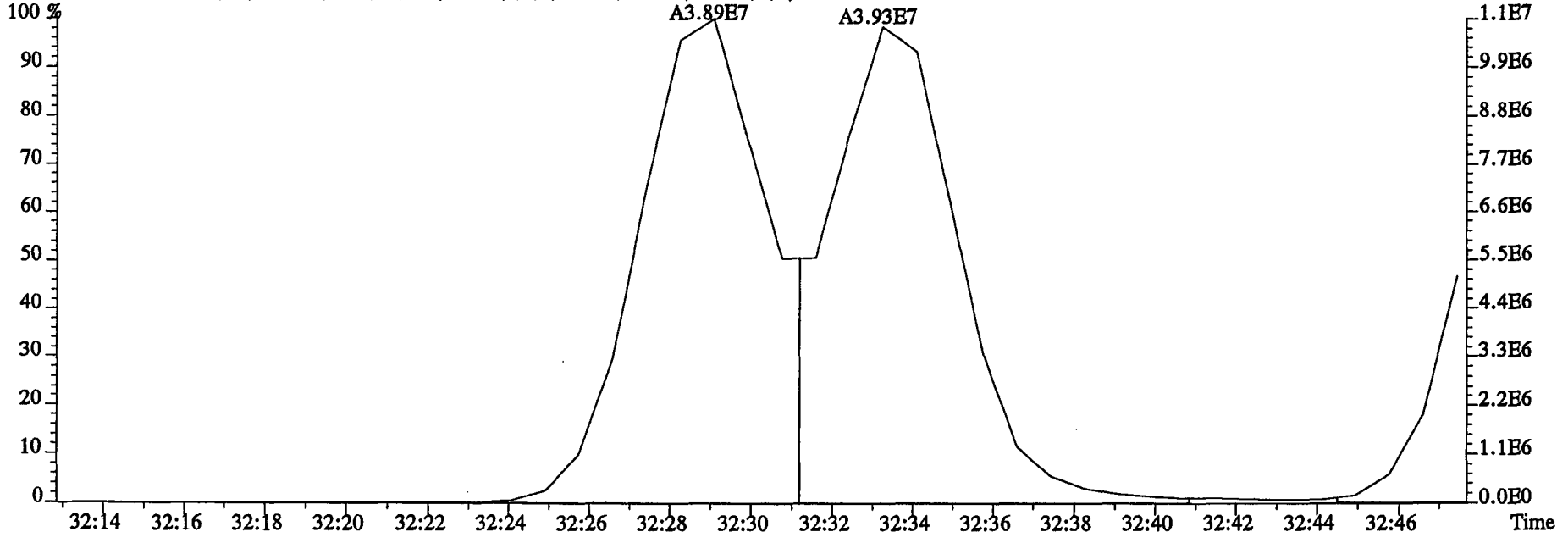


MANUAL EDIT CODES

1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
(5) Other Valley correction

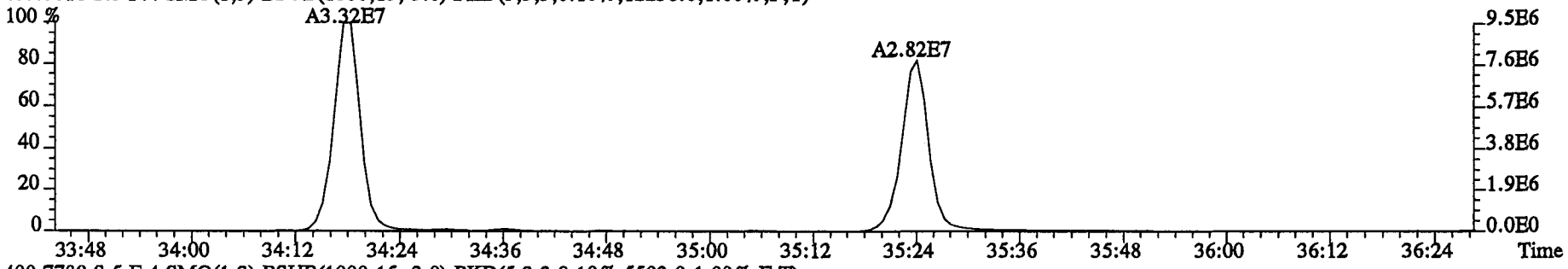
Analyst QM **Date** 12-14-10

403.8529 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8612.0,1.00%,F,T)

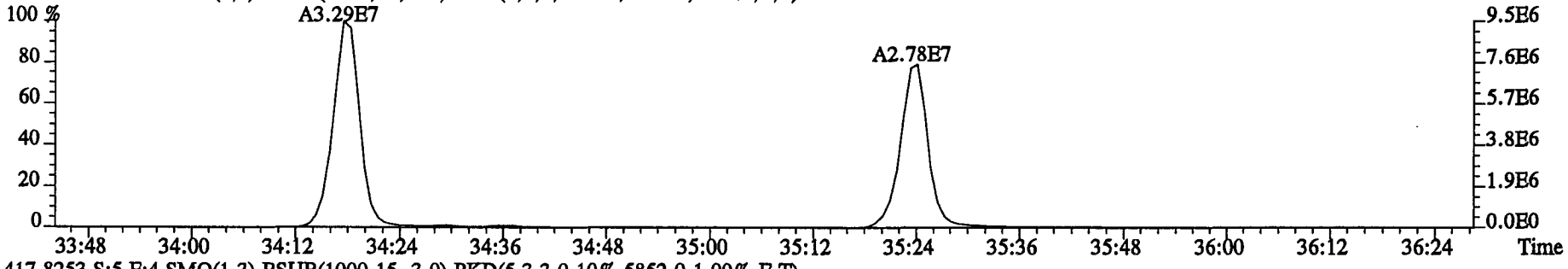


File:14DE10A9D5 #1-208 Acq:14-DEC-2010 17:51:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST1214B :CS-3 10DXN505 Exp:DIOXINRES

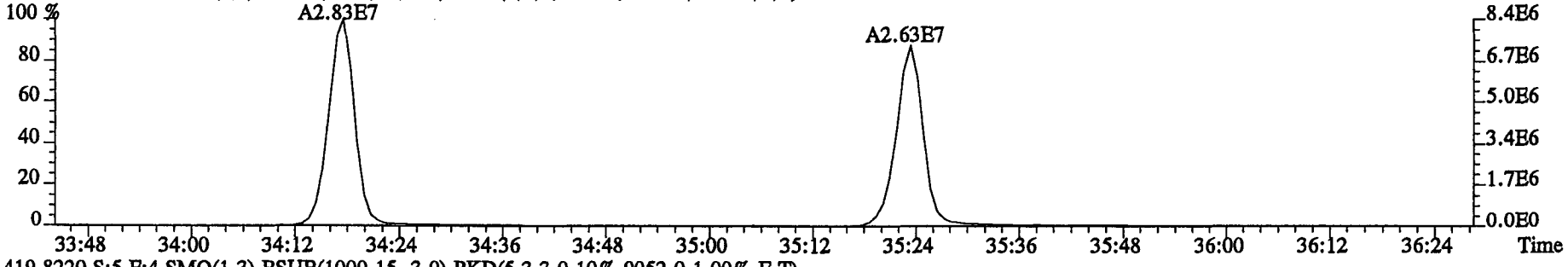
407.7818 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12256.0,1.00%,F,T)



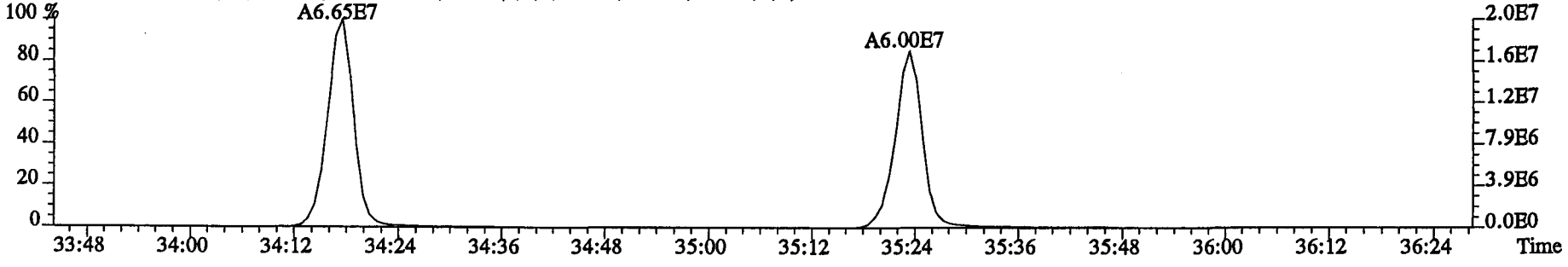
409.7789 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5592.0,1.00%,F,T)



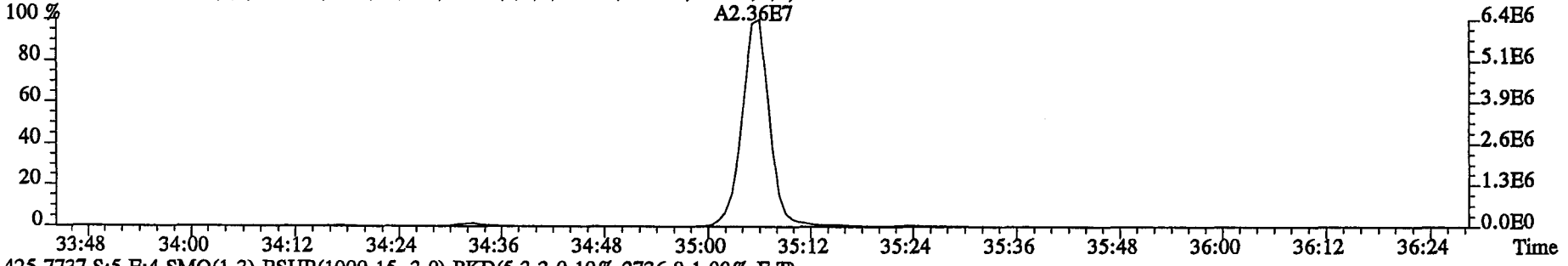
417.8253 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5852.0,1.00%,F,T)



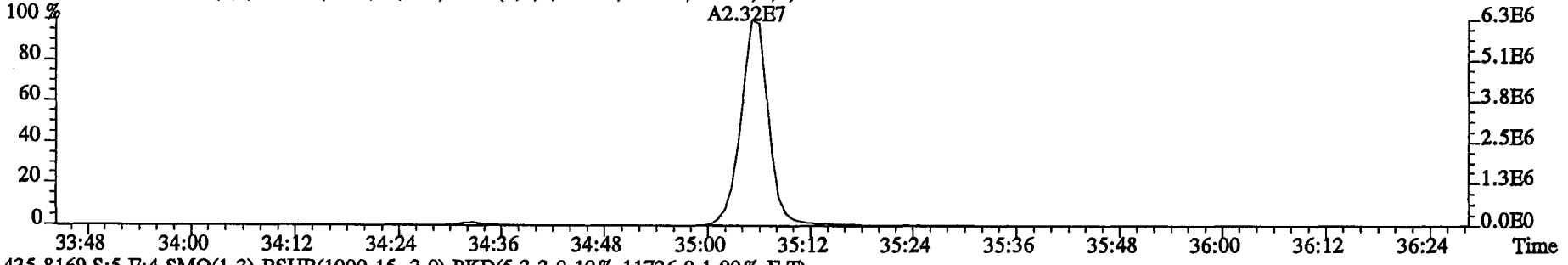
419.8220 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9052.0,1.00%,F,T)



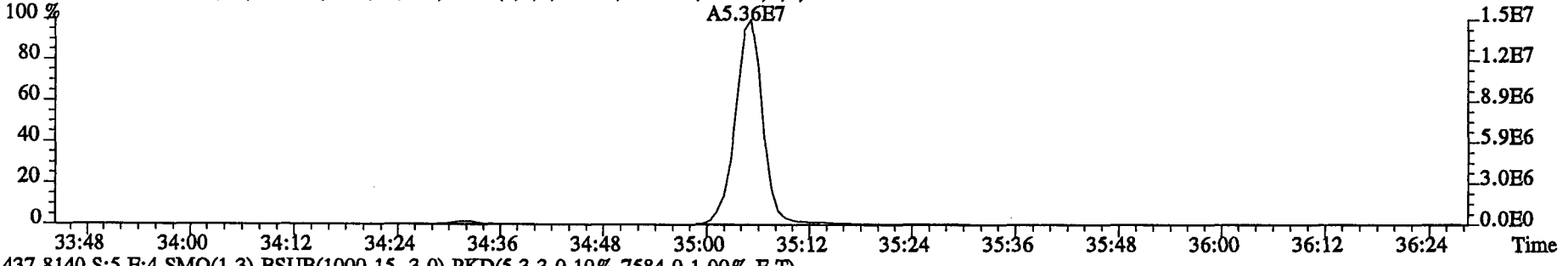
File:14DE10A9D5 #1-208 Acq:14-DEC-2010 17:51:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST1214B :CS-3 10DXN505 Exp:DIOXINRES
423.7766 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3240.0,1.00%,F,T)



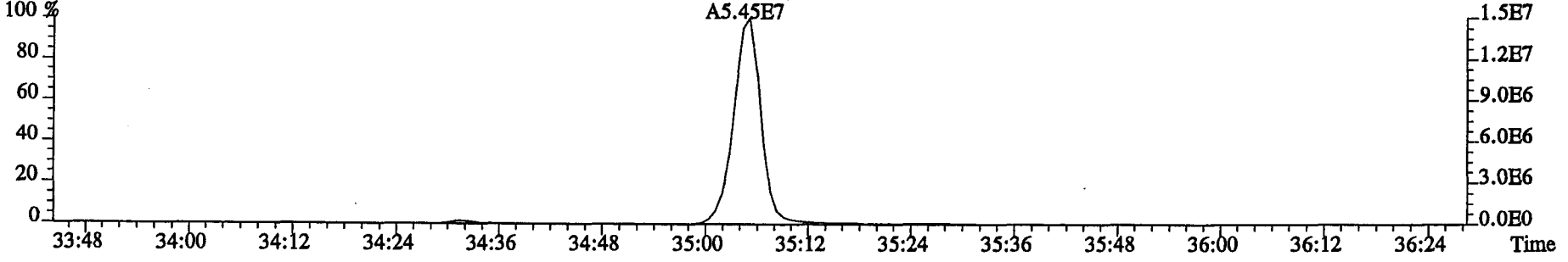
425.7737 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2736.0,1.00%,F,T)



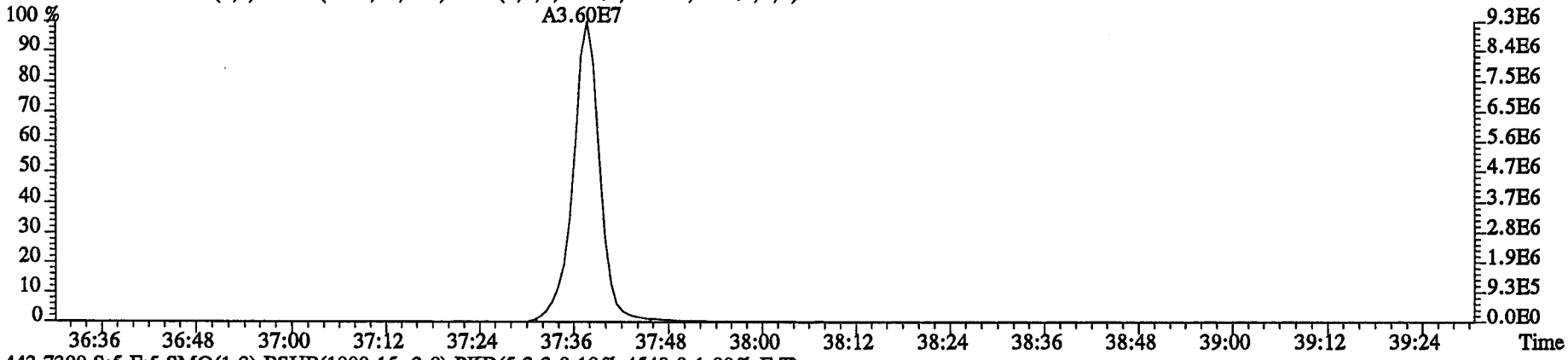
435.8169 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11736.0,1.00%,F,T)



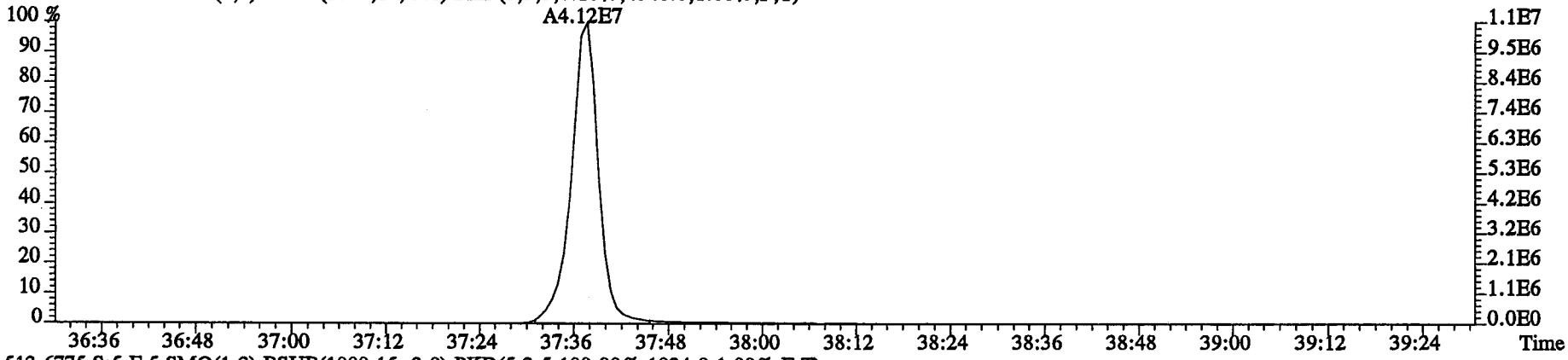
437.8140 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7584.0,1.00%,F,T)



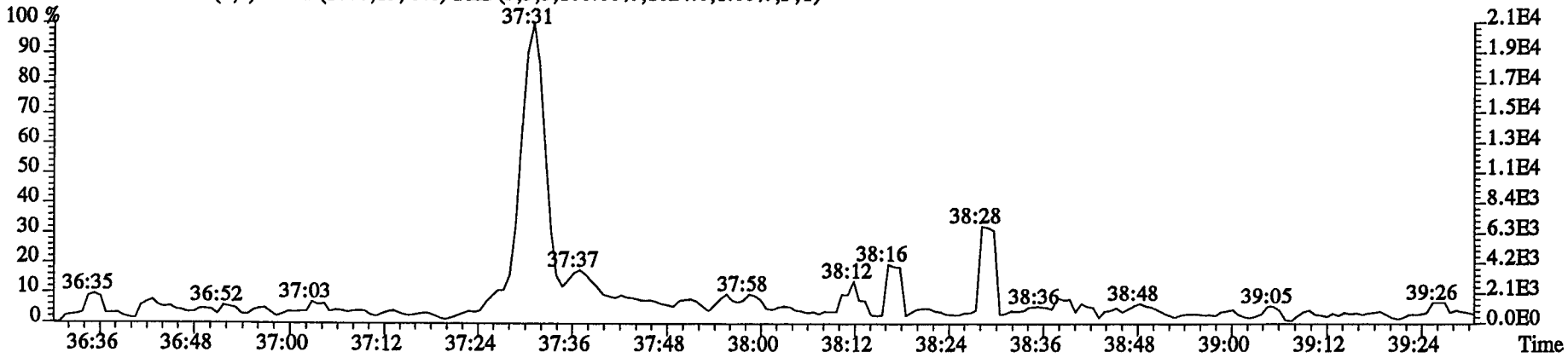
File:14DE10A9D5 #1-244 Acq:14-DEC-2010 17:51:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST1214B :CS-3 10DXN505 Exp:DIOXINRES
441.7428 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1976.0,1.00%,F,T)



443.7399 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4548.0,1.00%,F,T)

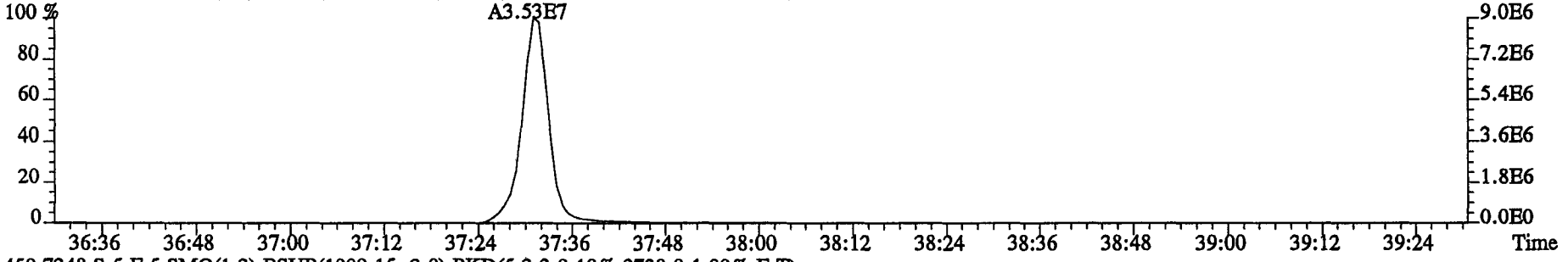


513.6775 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,1024.0,1.00%,F,T)

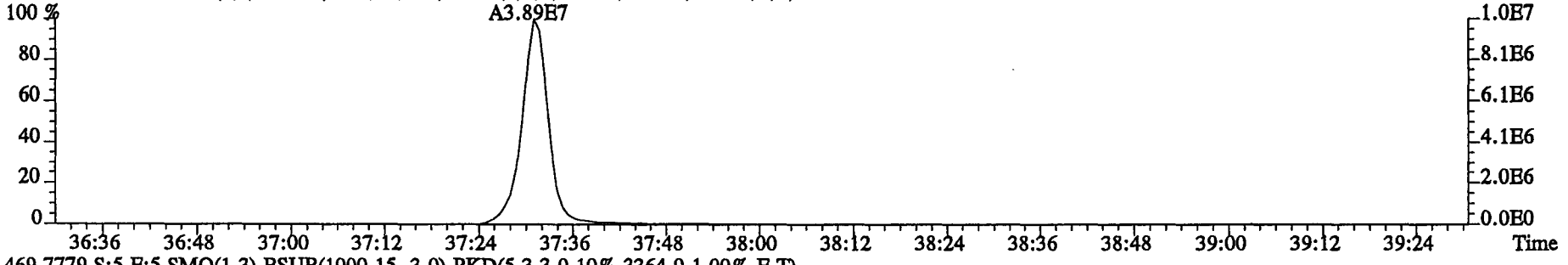


File:14DE10A9D5 #1-244 Acq:14-DEC-2010 17:51:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST1214B :CS-3 10DXN505 Exp:DIOXINRES

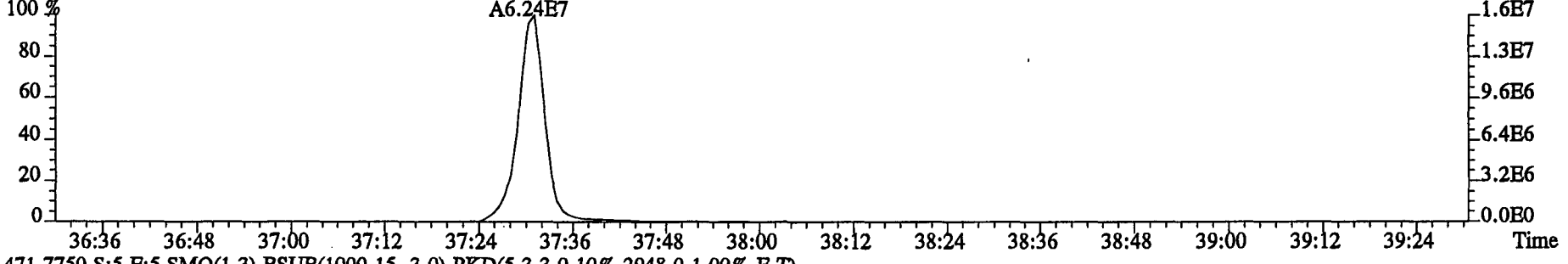
457.7377 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5500.0,1.00%,F,T)



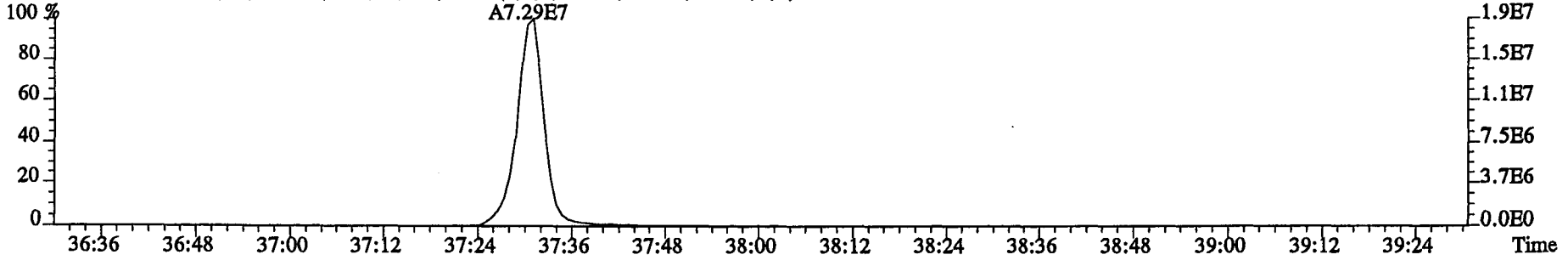
459.7348 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2728.0,1.00%,F,T)



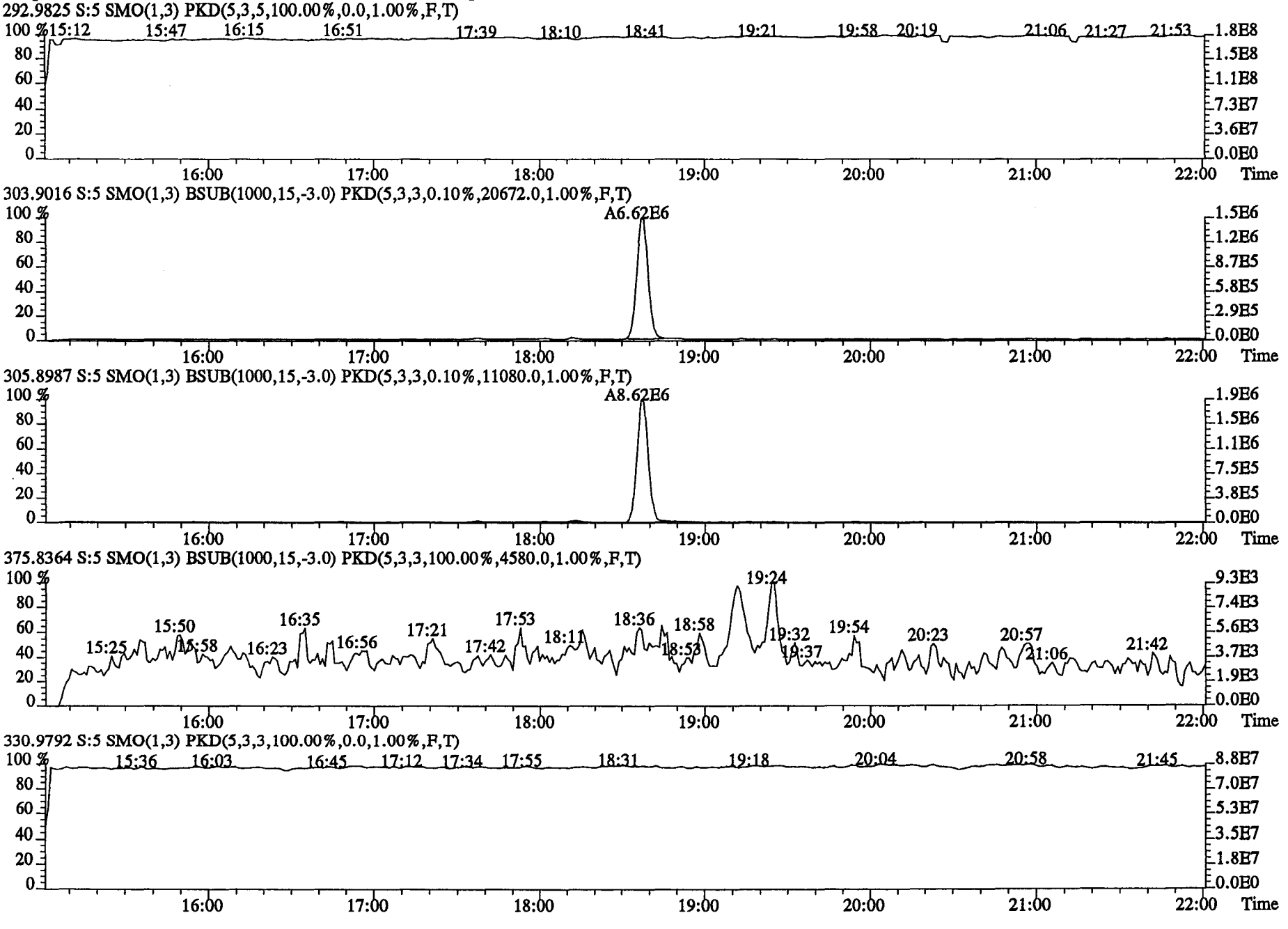
469.7779 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3364.0,1.00%,F,T)



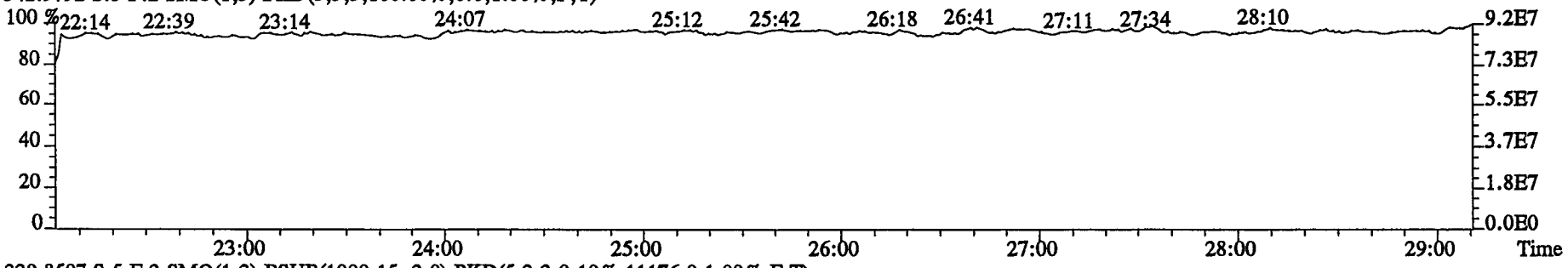
471.7750 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2948.0,1.00%,F,T)



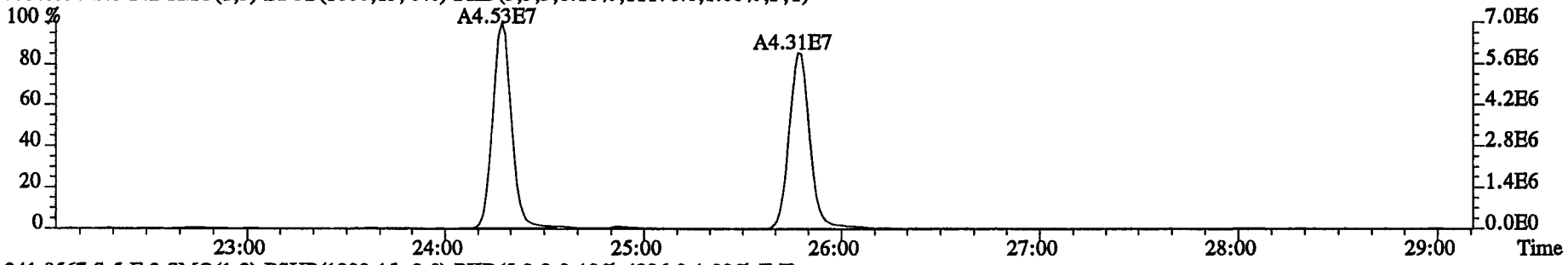
File:14DE10A9D5 #1-464 Acq:14-DEC-2010 17:51:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST1214B :CS-3 10DXN505 Exp:DIOXINRES



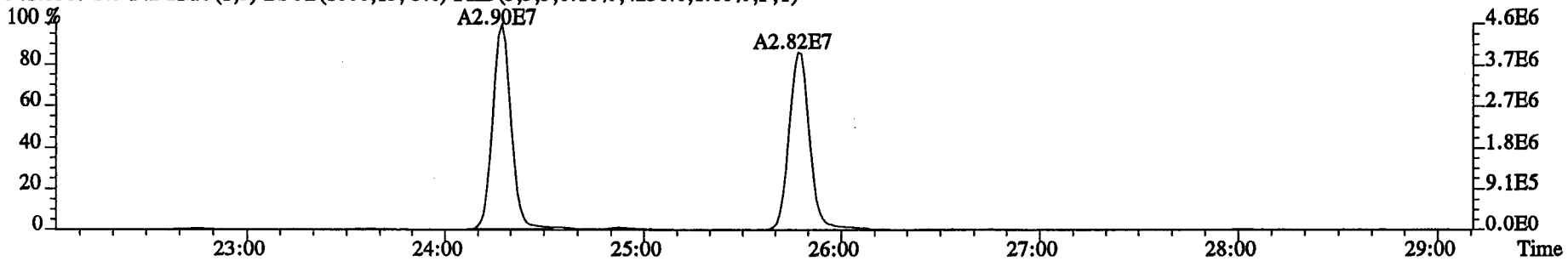
File:14DE10A9D5 #1-459 Acq:14-DEC-2010 17:51:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST1214B :CS-3 10DXN505 Exp:DIOXINRES
342.9792 S:5 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



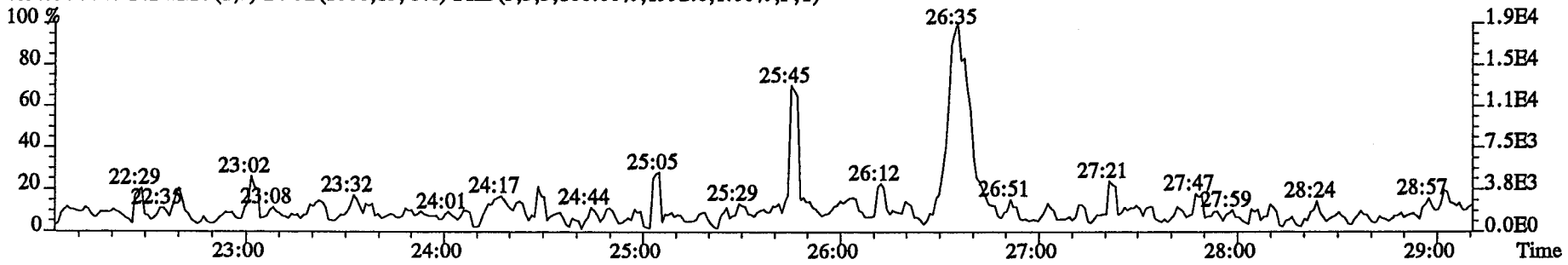
339.8597 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11176.0,1.00%,F,T)



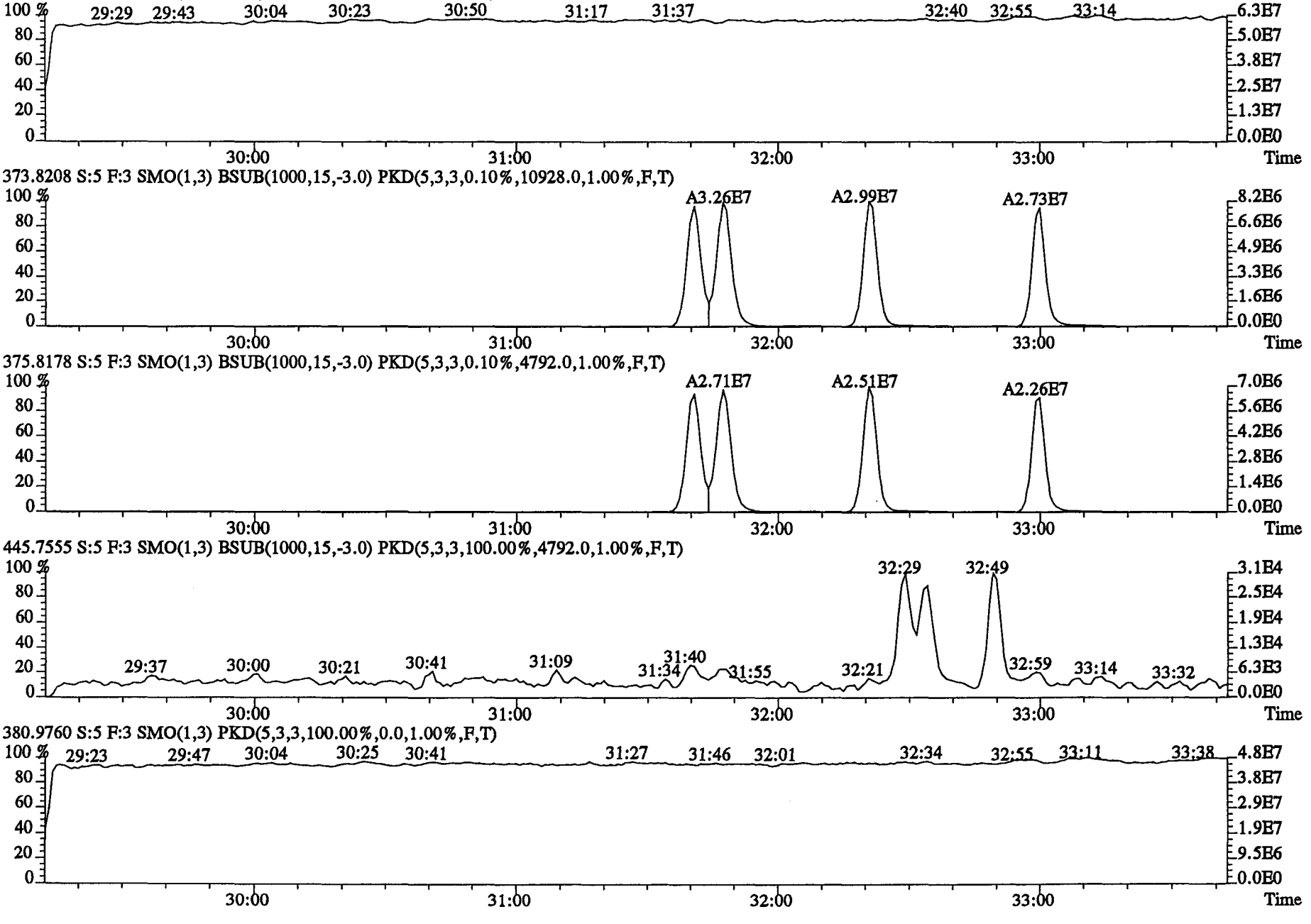
341.8567 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4236.0,1.00%,F,T)



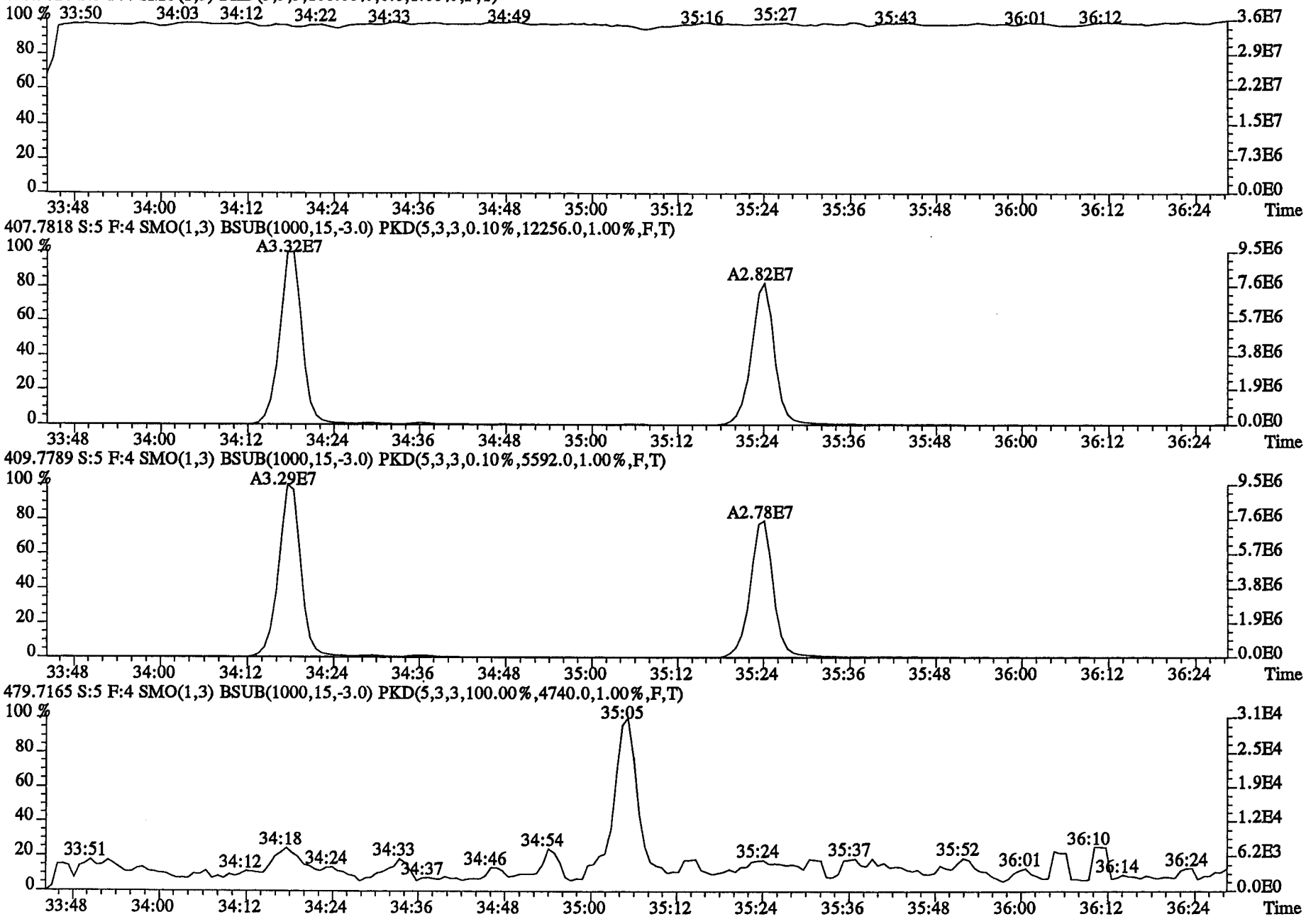
409.7974 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1992.0,1.00%,F,T)



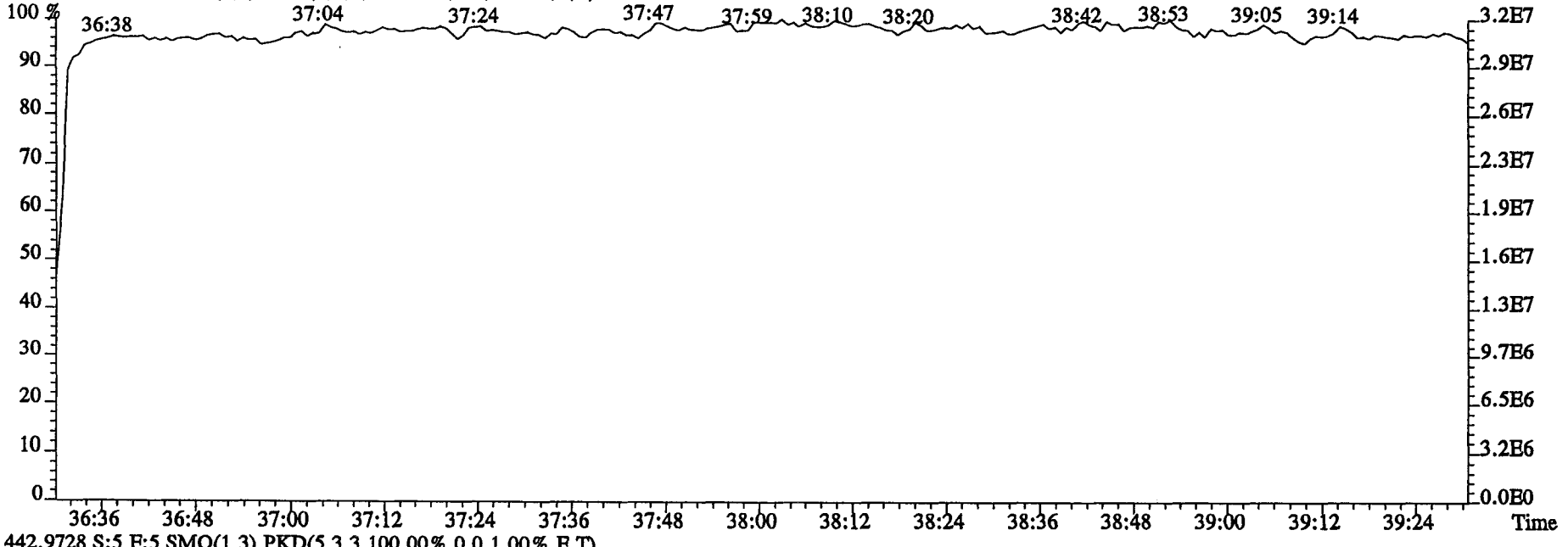
File:14DE10A9D5 #1-325 Acq:14-DEC-2010 17:51:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST1214B :CS-3 10DXN505 Exp:DIOXINRES



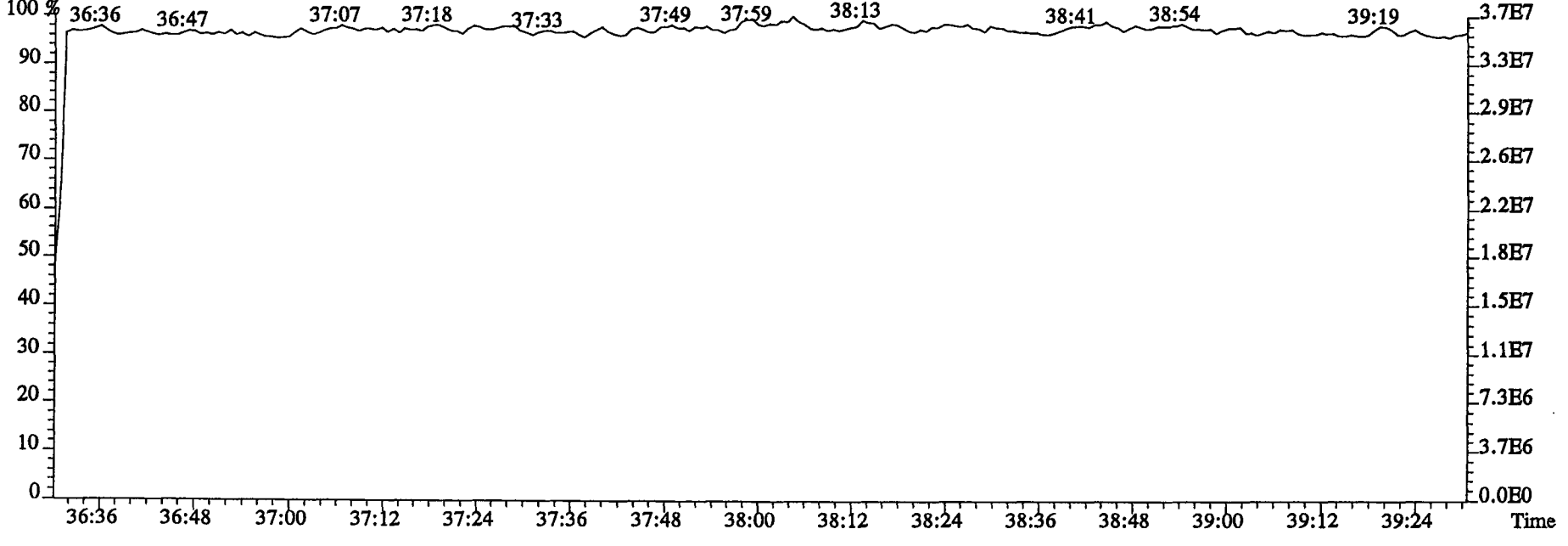
File:14DE10A9D5 #1-208 Acq:14-DEC-2010 17:51:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST1214B :CS-3 10DXN505 Exp:DIOXINRES



File:14DE10A9D5 #1-244 Acq:14-DEC-2010 17:51:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST1214B :CS-3 10DXN505 Exp:DIOXINRES
454.9728 S:5 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

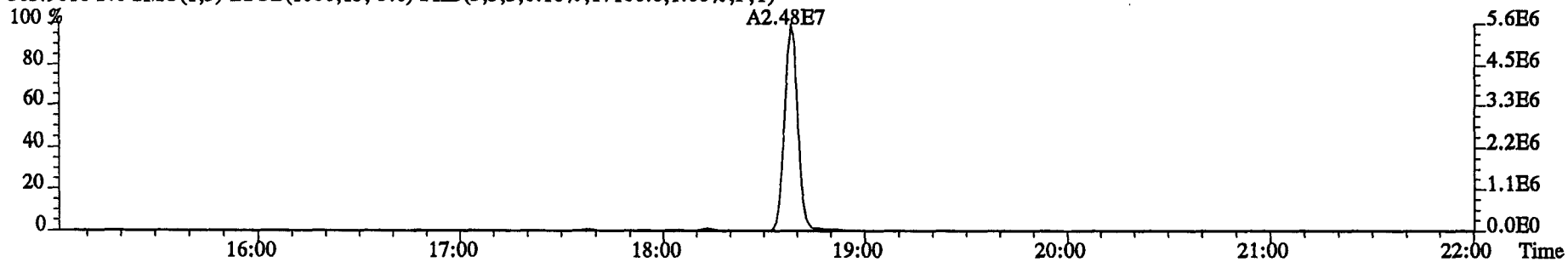


442.9728 S:5 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

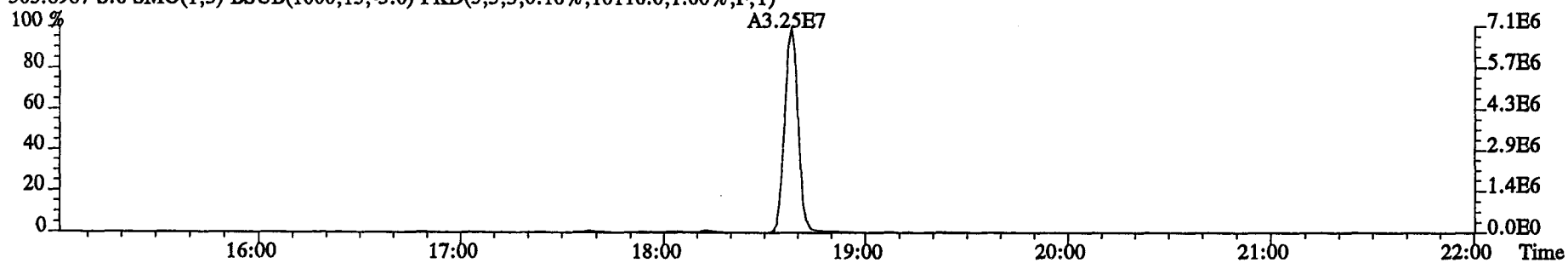


File:14DE10A9D5 #1-463 Acq:14-DEC-2010 18:34:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST1214C :CS-4 10DXN506 Exp:DIOXINRES

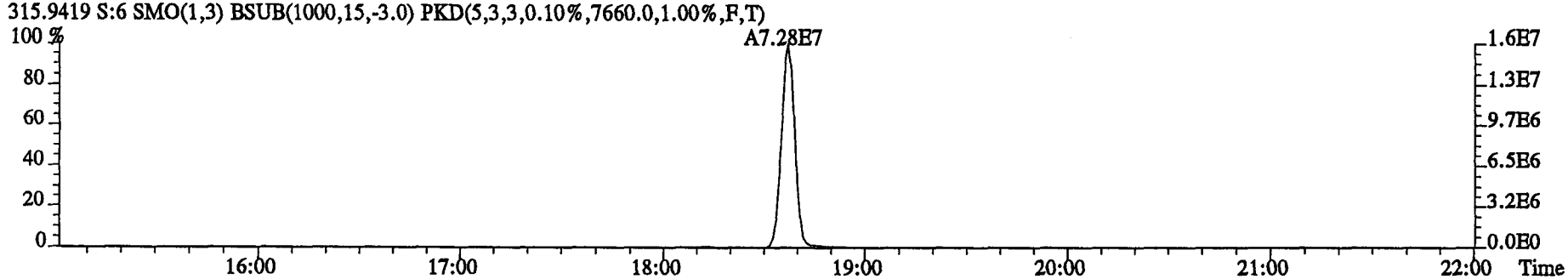
303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17100.0,1.00%,F,T)



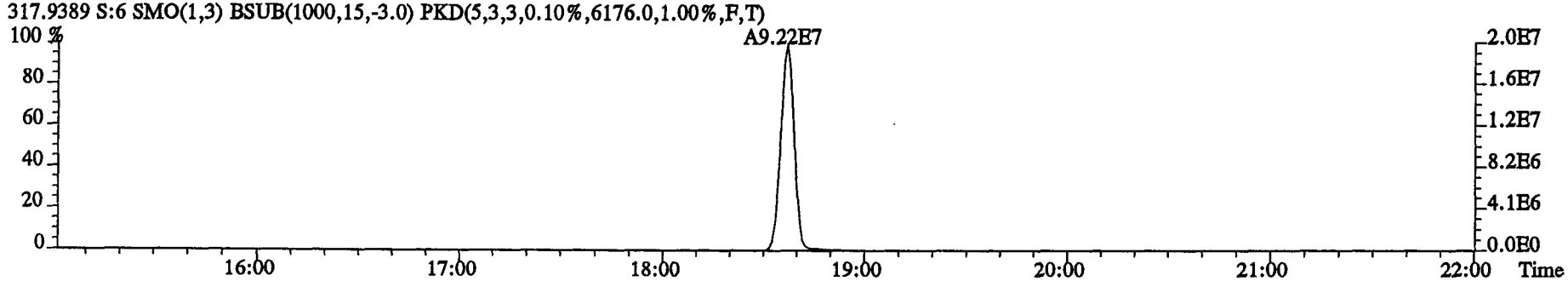
305.8987 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10116.0,1.00%,F,T)



315.9419 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7660.0,1.00%,F,T)

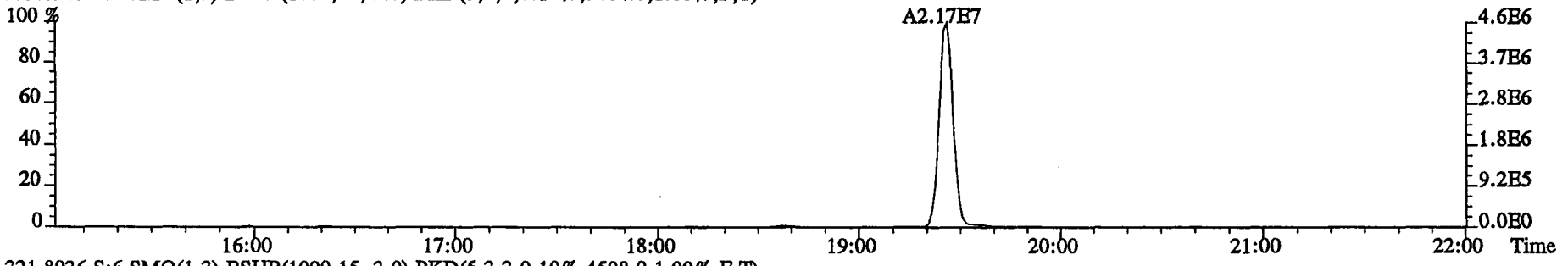


317.9389 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6176.0,1.00%,F,T)

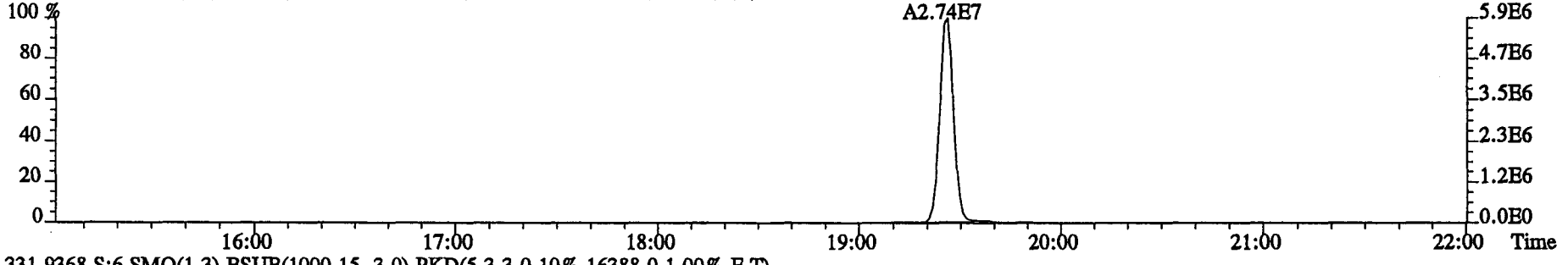


File:14DE10A9D5 #1-463 Acq:14-DEC-2010 18:34:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST1214C :CS-4 10DXN506 Exp:DIOXINRES

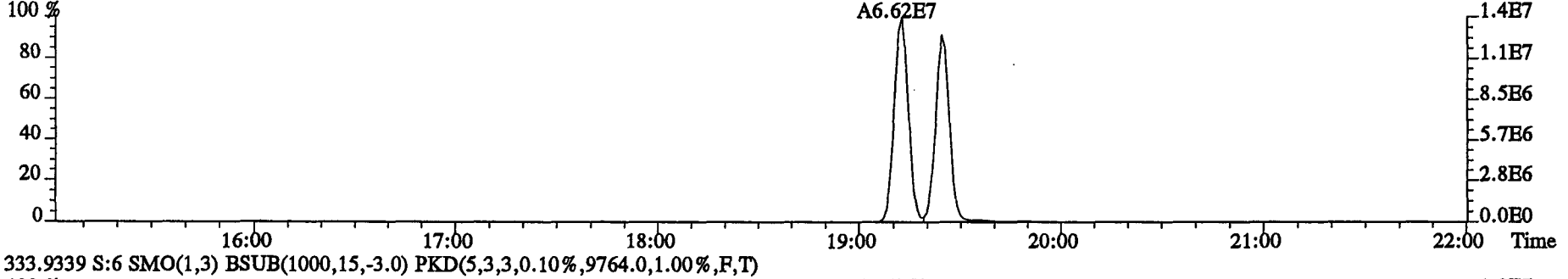
319.8965 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5464.0,1.00%,F,T)



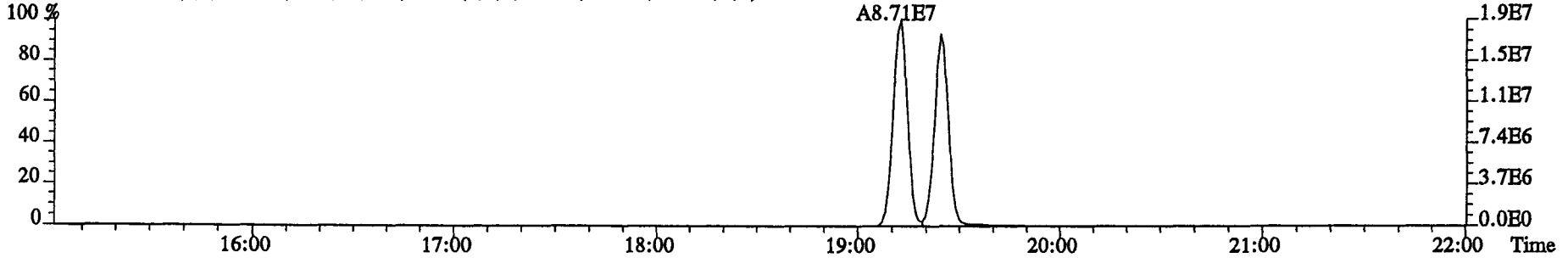
321.8936 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4508.0,1.00%,F,T)



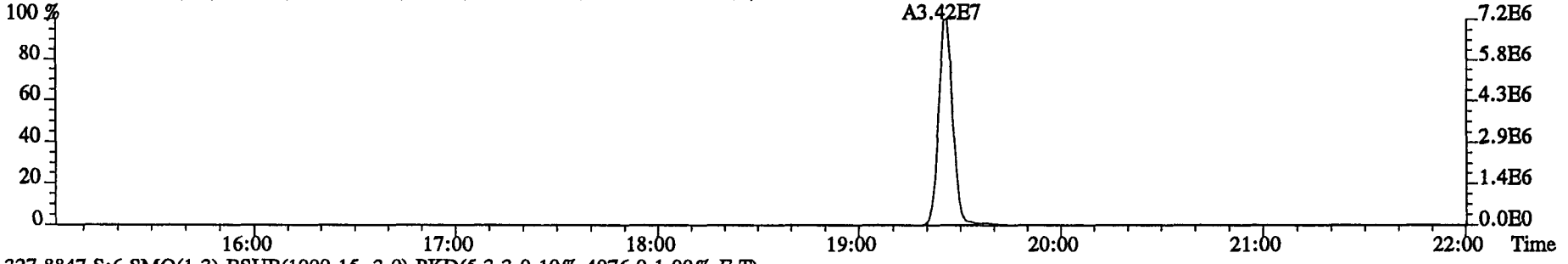
331.9368 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16388.0,1.00%,F,T)



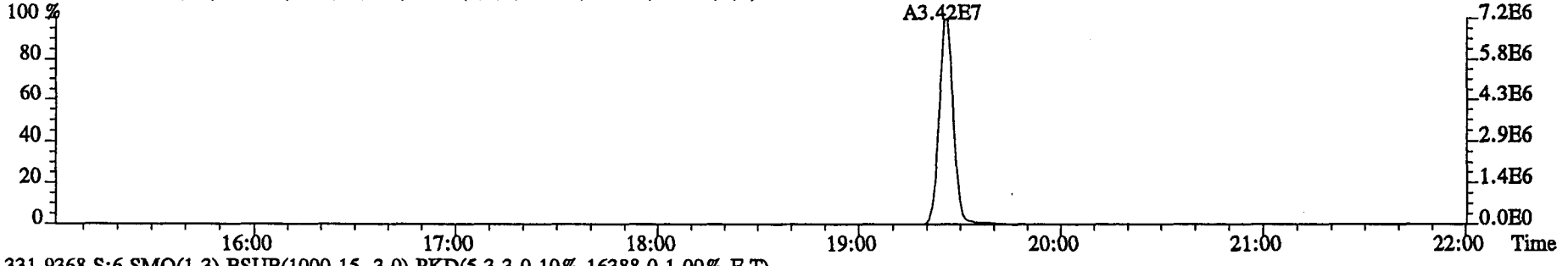
333.9339 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9764.0,1.00%,F,T)



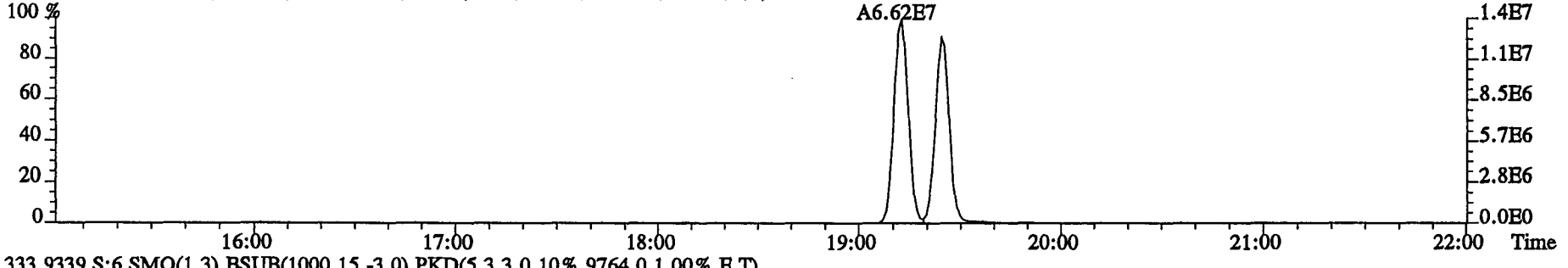
File:14DE10A9D5 #1-463 Acq:14-DEC-2010 18:34:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST1214C :CS-4 10DXN506 Exp:DIOXINRES
327.8847 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4076.0,1.00%,F,T)



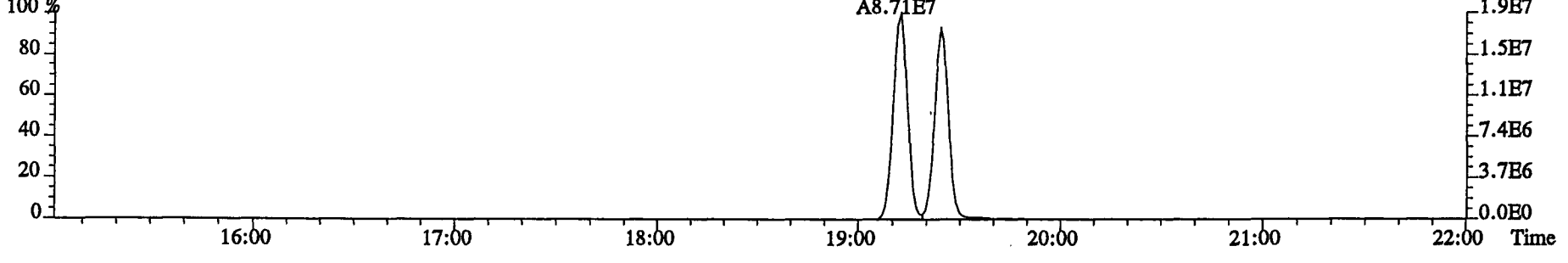
327.8847 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4076.0,1.00%,F,T)



331.9368 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16388.0,1.00%,F,T)

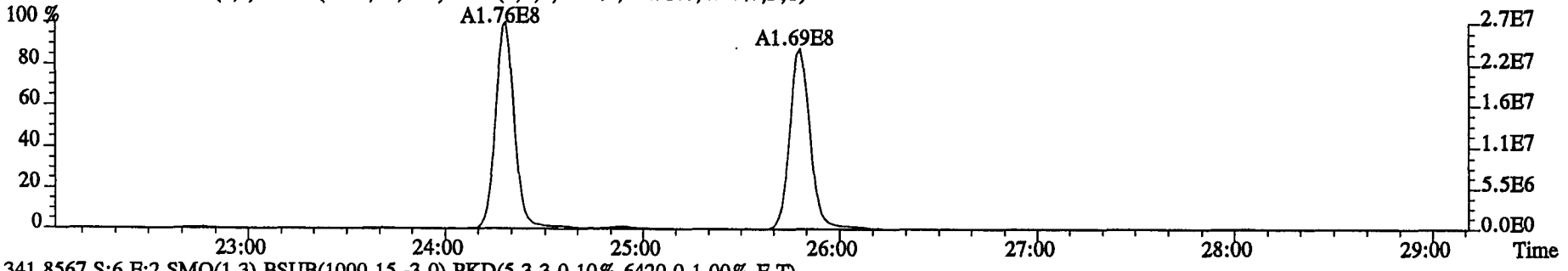


333.9339 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9764.0,1.00%,F,T)

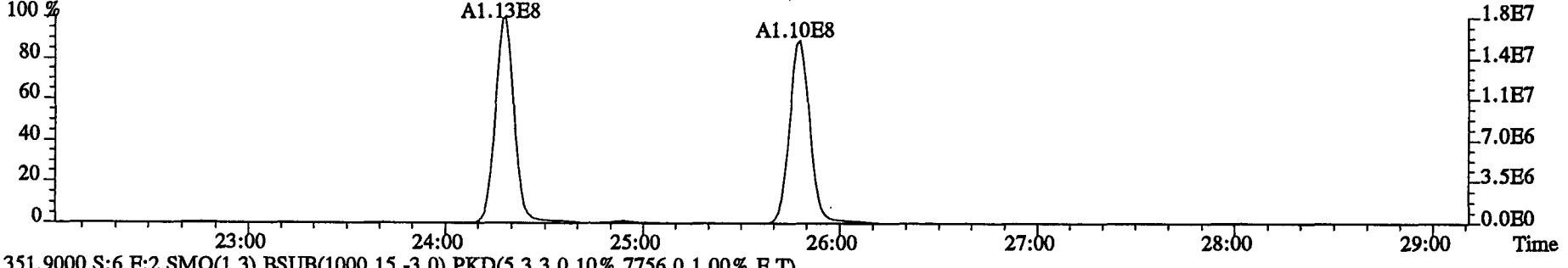


File:14DE10A9D5 #1-460 Acq:14-DEC-2010 18:34:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST1214C :CS-4 10DXN506 Exp:DIOXINRES

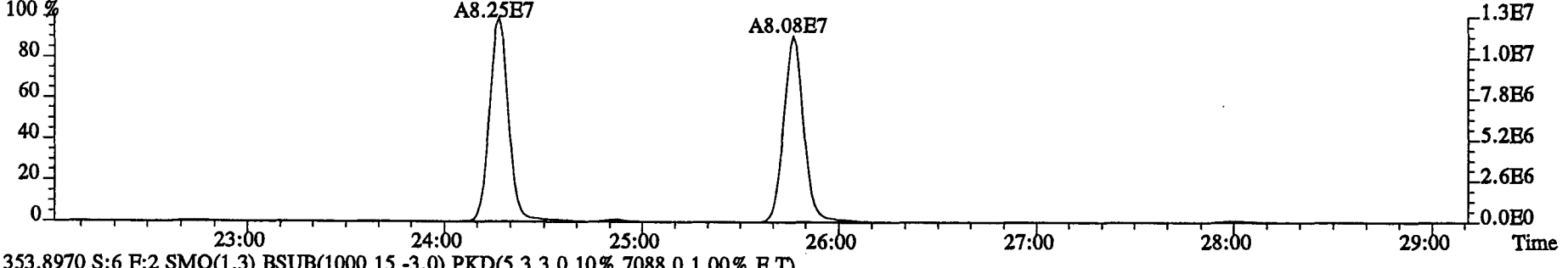
339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13492.0,1.00%,F,T)



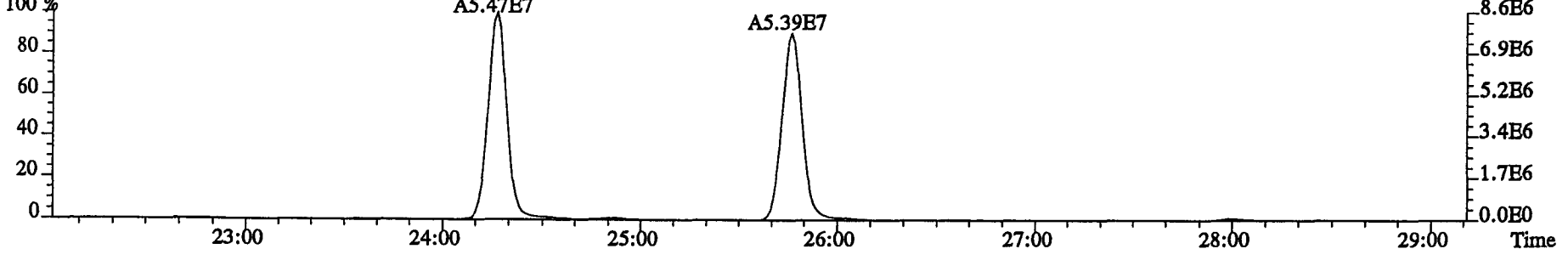
341.8567 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6420.0,1.00%,F,T)



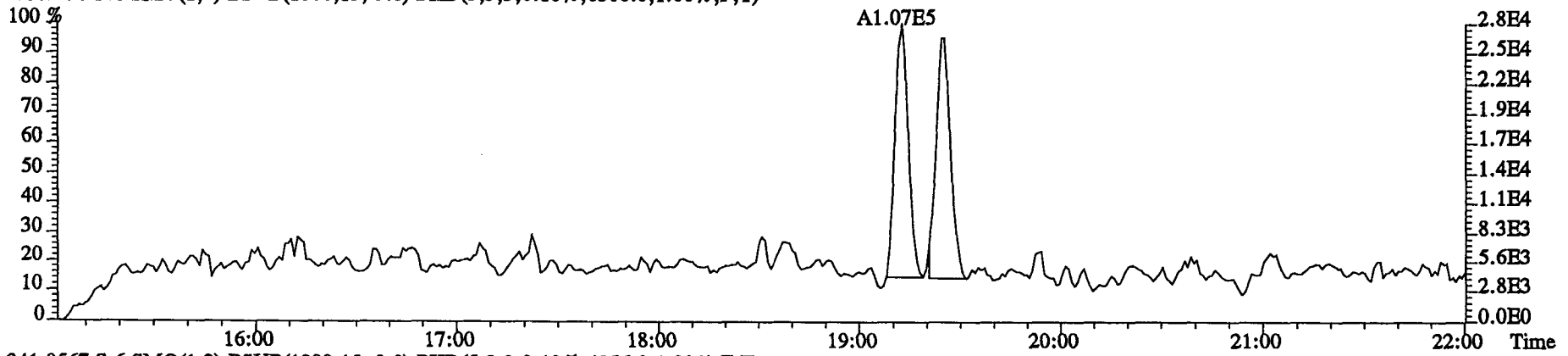
351.9000 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7756.0,1.00%,F,T)



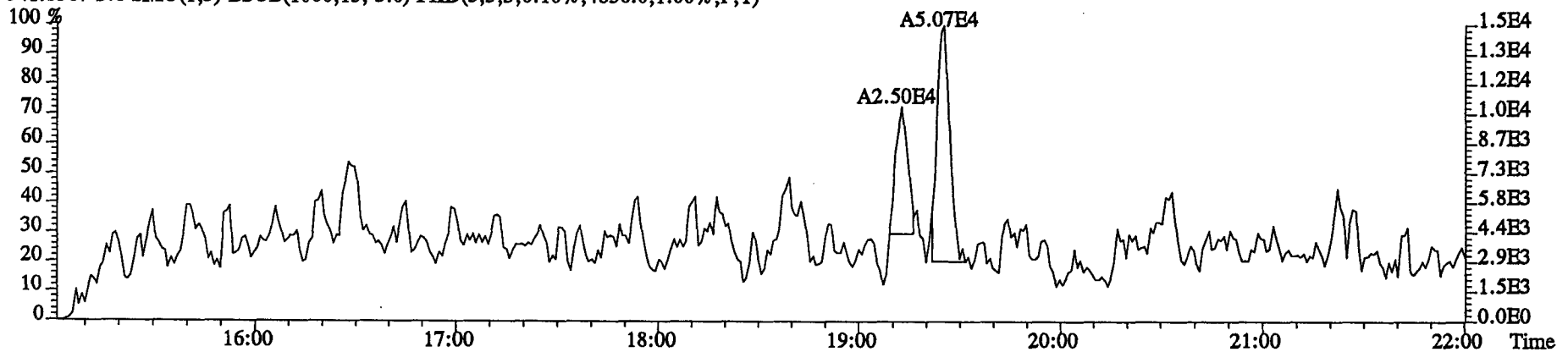
353.8970 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7088.0,1.00%,F,T)



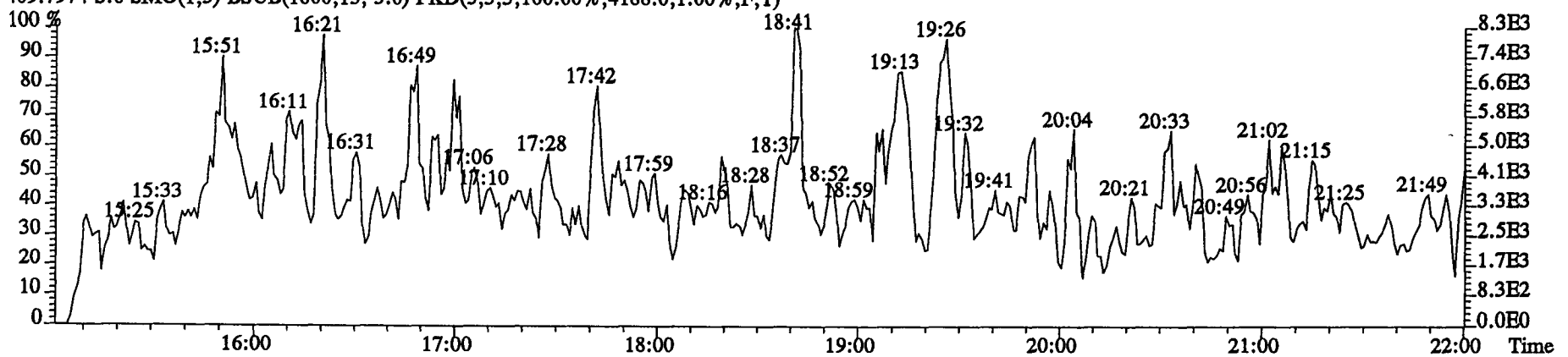
File:14DE10A9D5 #1-463 Acq:14-DEC-2010 18:34:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST1214C :CS-4 10DXN506 Exp:DIOXINRES
339.8597 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6508.0,1.00%,F,T)



341.8567 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4856.0,1.00%,F,T)

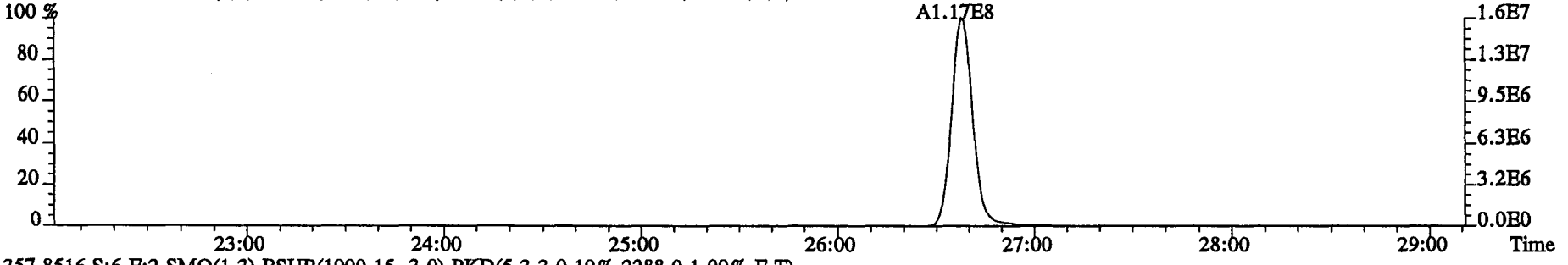


409.7974 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,4188.0,1.00%,F,T)

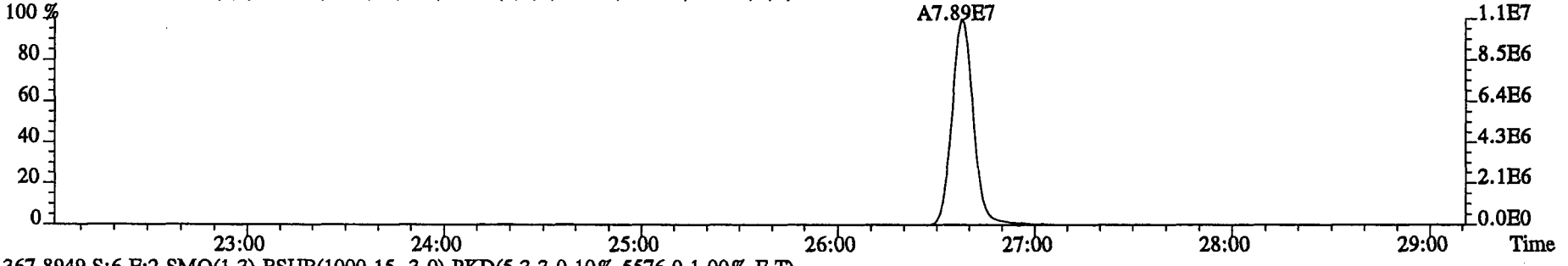


File:14DE10A9D5 #1-460 Acq:14-DEC-2010 18:34:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST1214C :CS-4 10DXN506 Exp:DIOXINRES

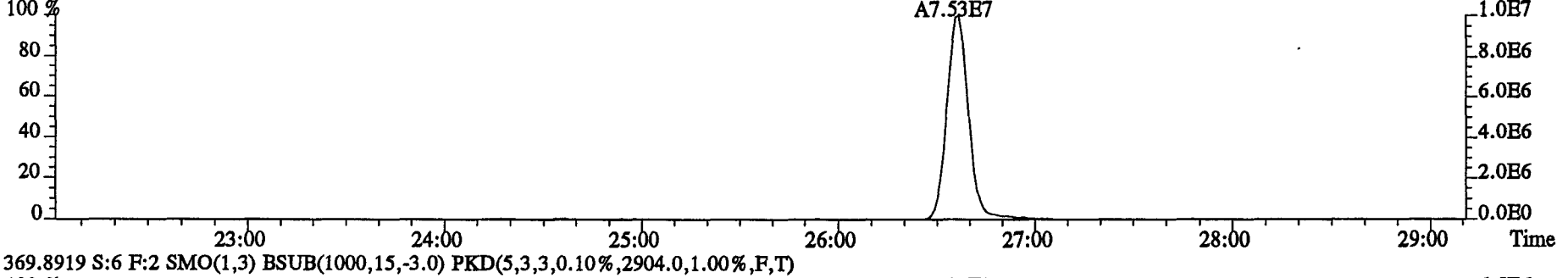
355.8546 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3828.0,1.00%,F,T)



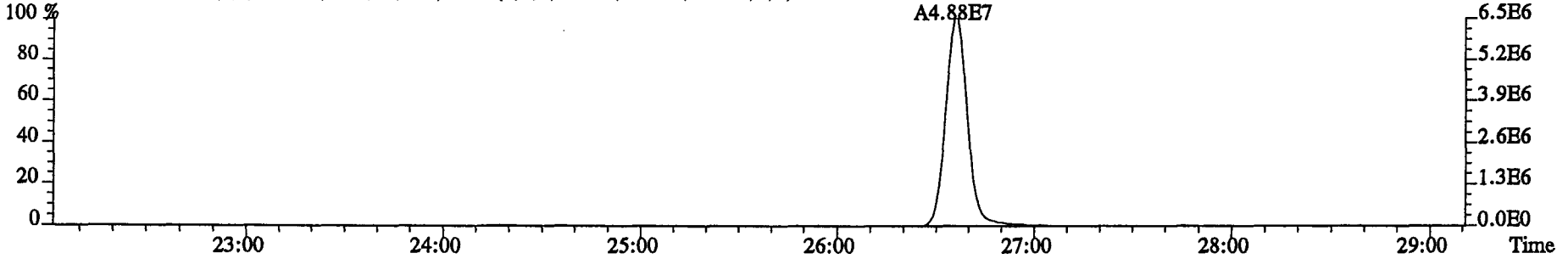
357.8516 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2288.0,1.00%,F,T)



367.8949 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5576.0,1.00%,F,T)

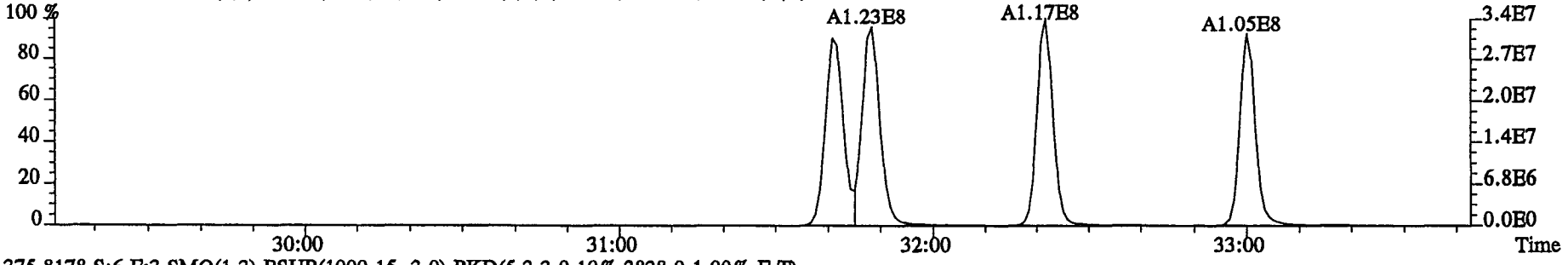


369.8919 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2904.0,1.00%,F,T)

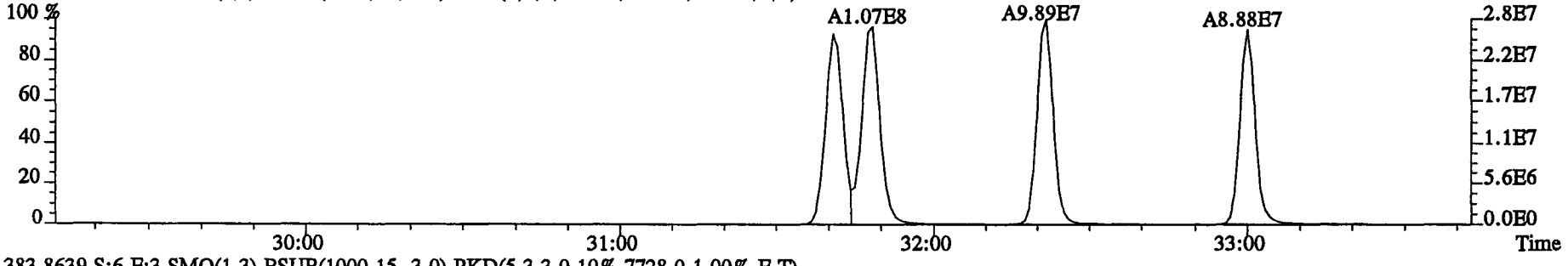


File:14DE10A9D5 #1-325 Acq:14-DEC-2010 18:34:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST1214C :CS-4 10DXN506 Exp:DIOXINRES

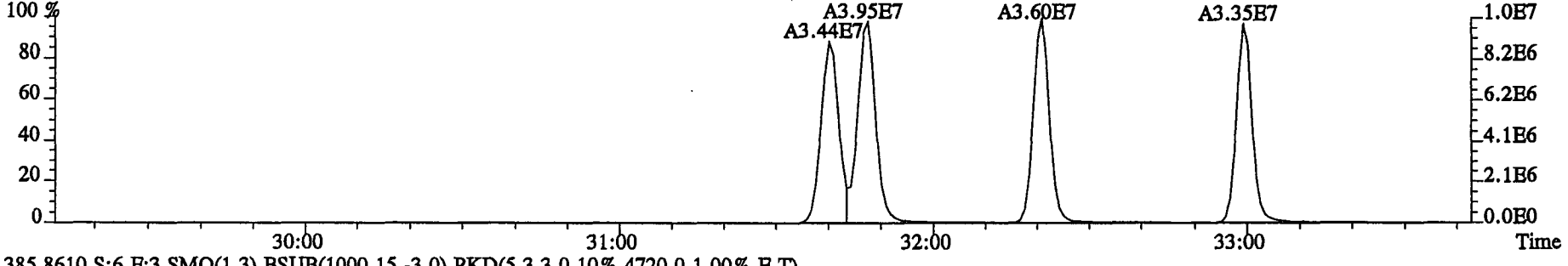
373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10940.0,1.00%,F,T)



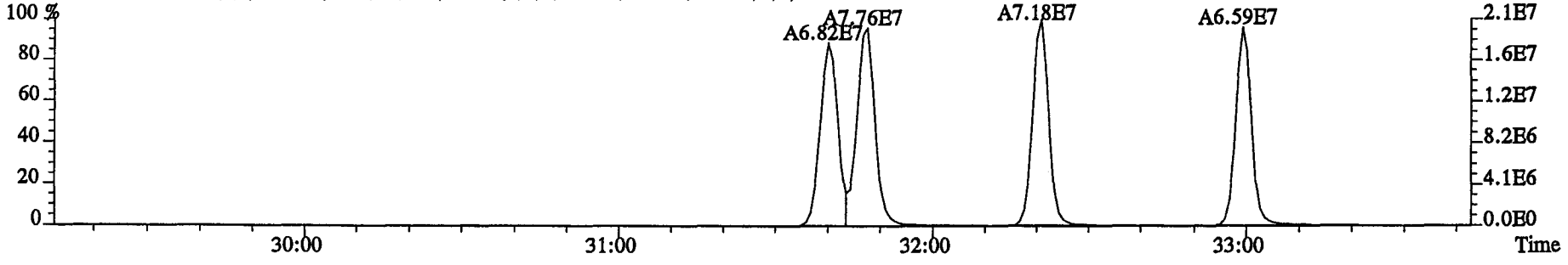
375.8178 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3828.0,1.00%,F,T)



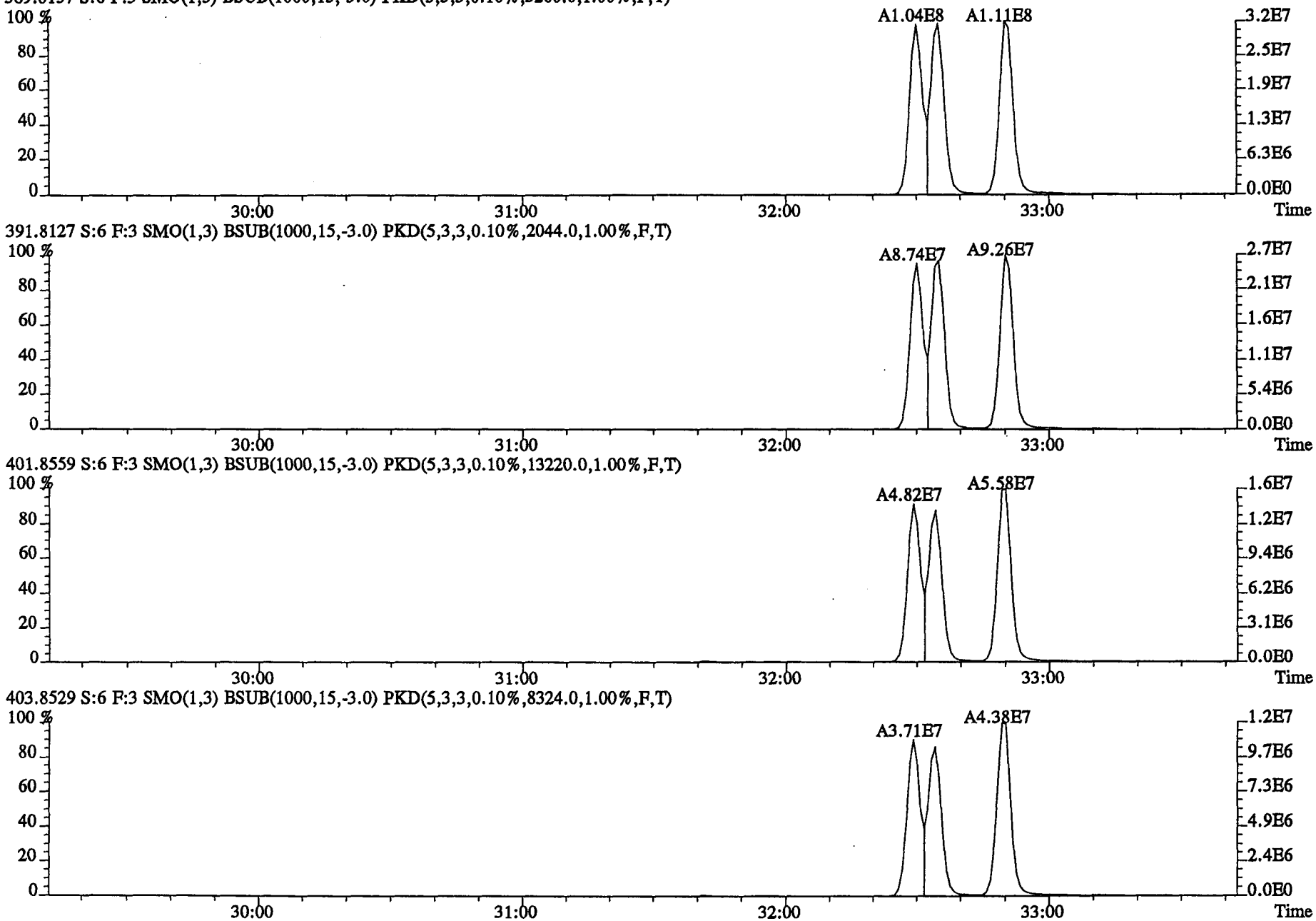
383.8639 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7728.0,1.00%,F,T)



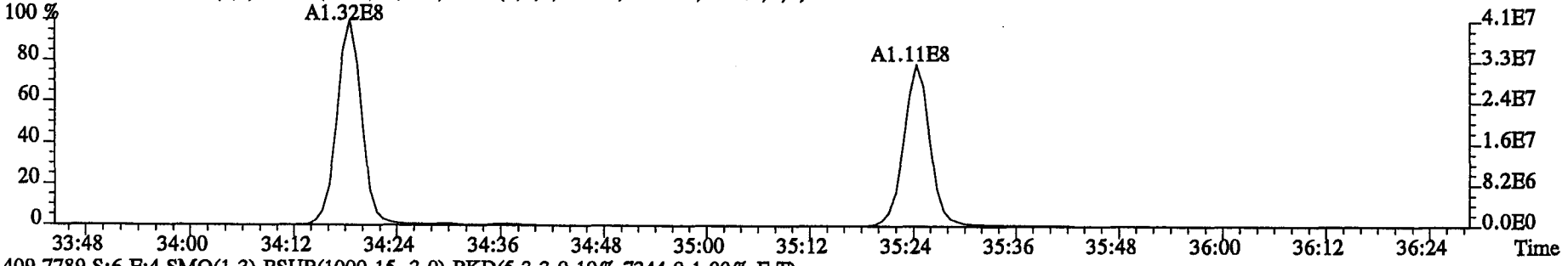
385.8610 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4720.0,1.00%,F,T)



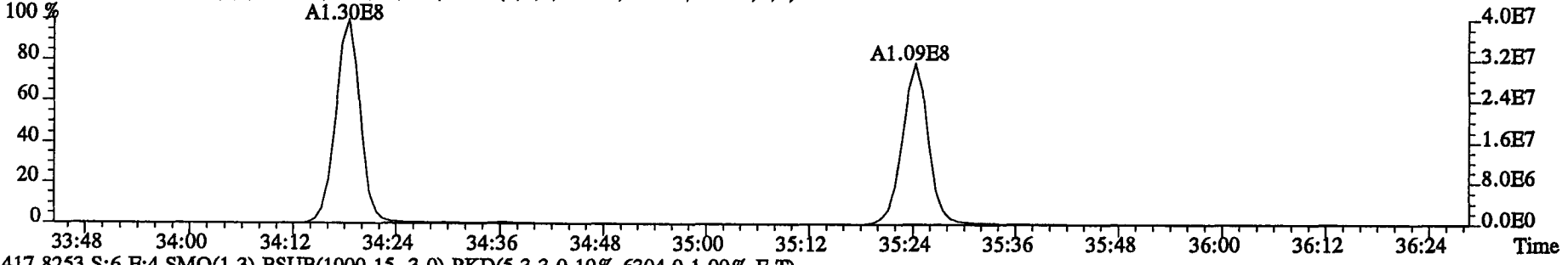
File:14DE10A9D5 #1-325 Acq:14-DEC-2010 18:34:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST1214C :CS-4 10DXN506 Exp:DIOXINRES



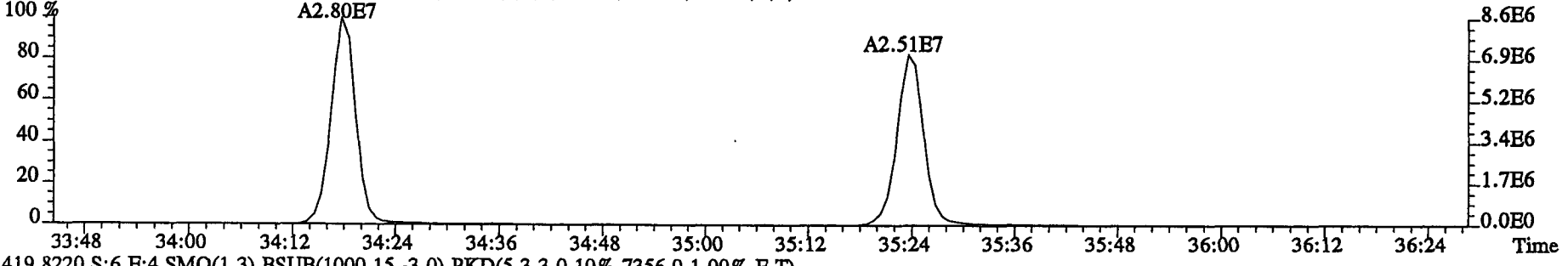
File:14DE10A9D5 #1-208 Acq:14-DEC-2010 18:34:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST1214C :CS-4 10DXN506 Exp:DIOXINRES
407.7818 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18148.0,1.00%,F,T)



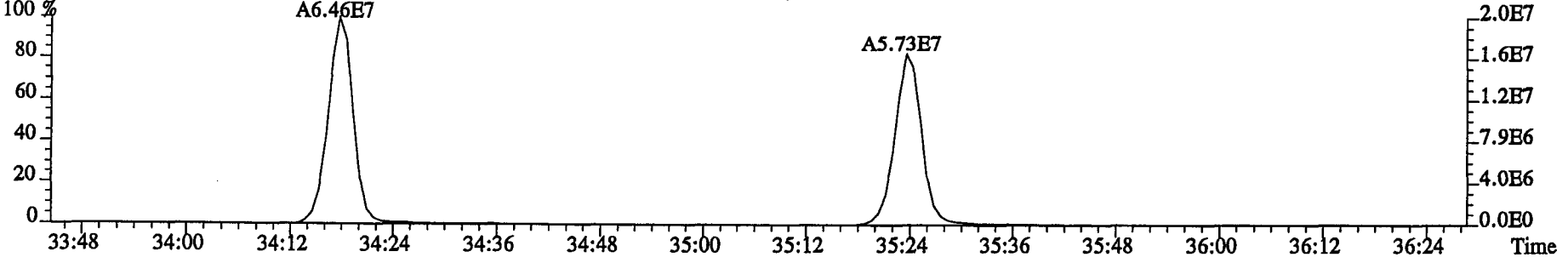
409.7789 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7344.0,1.00%,F,T)



417.8253 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6304.0,1.00%,F,T)

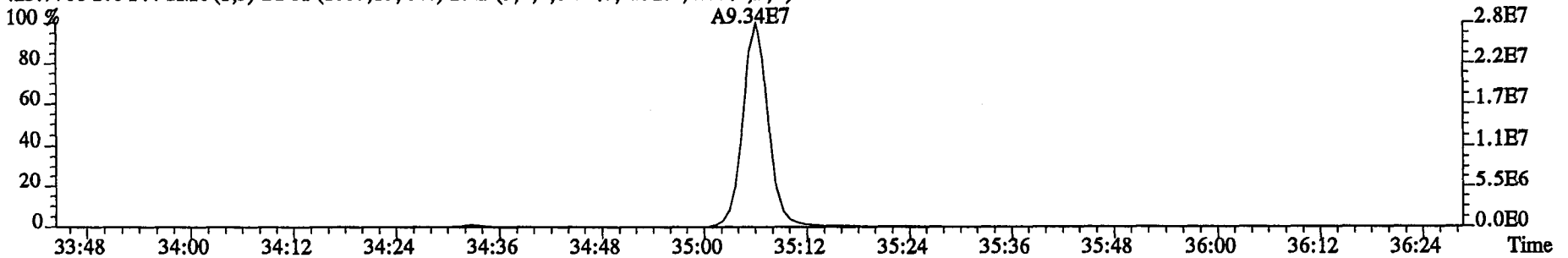


419.8220 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7356.0,1.00%,F,T)

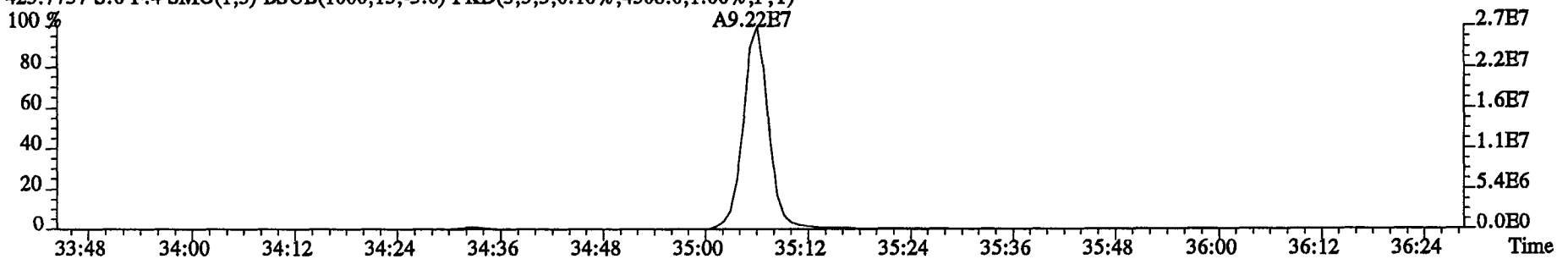


File:14DE10A9D5 #1-208 Acq:14-DEC-2010 18:34:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST1214C :CS-4 10DXN506 Exp:DIOXINRES

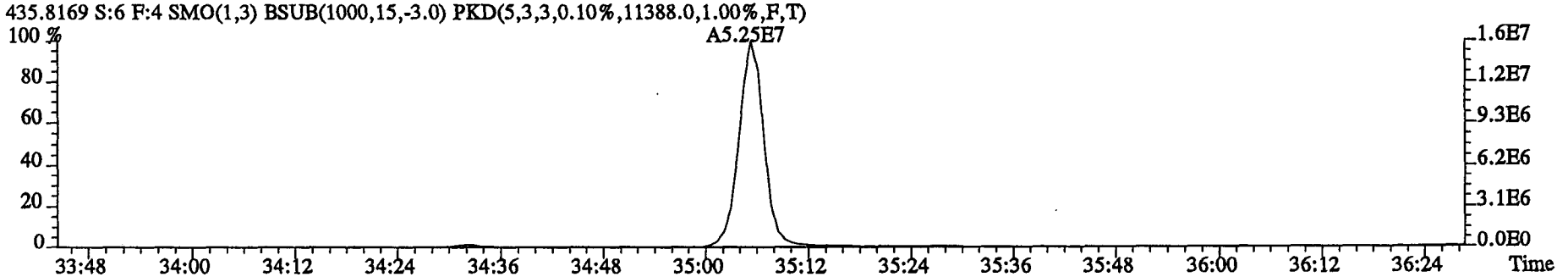
423.7766 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3292.0,1.00%,F,T)



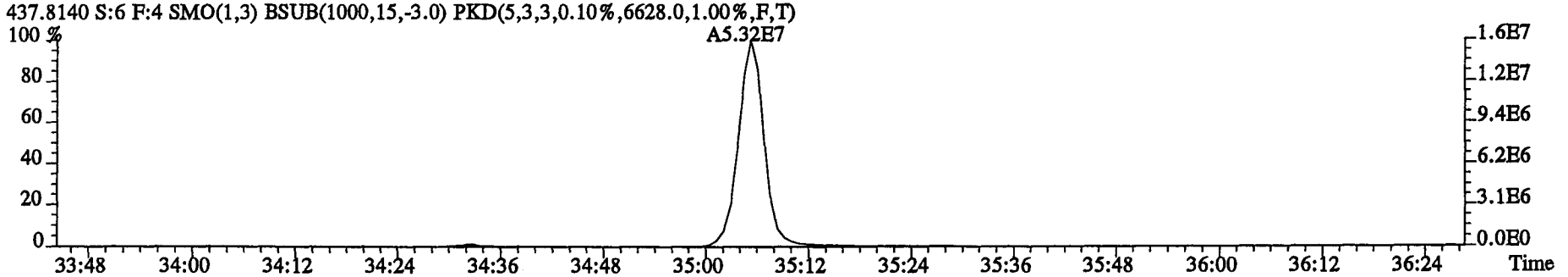
425.7737 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4508.0,1.00%,F,T)



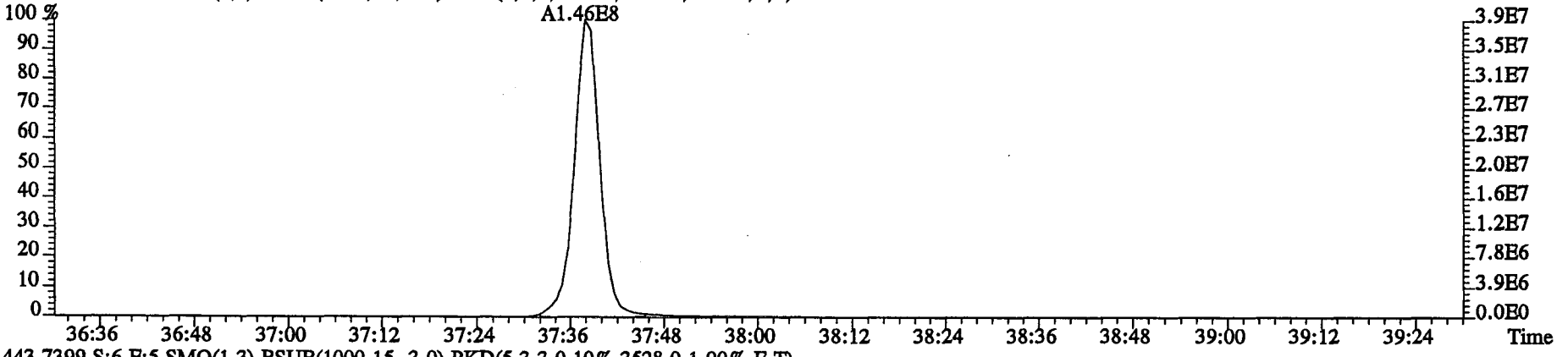
435.8169 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11388.0,1.00%,F,T)



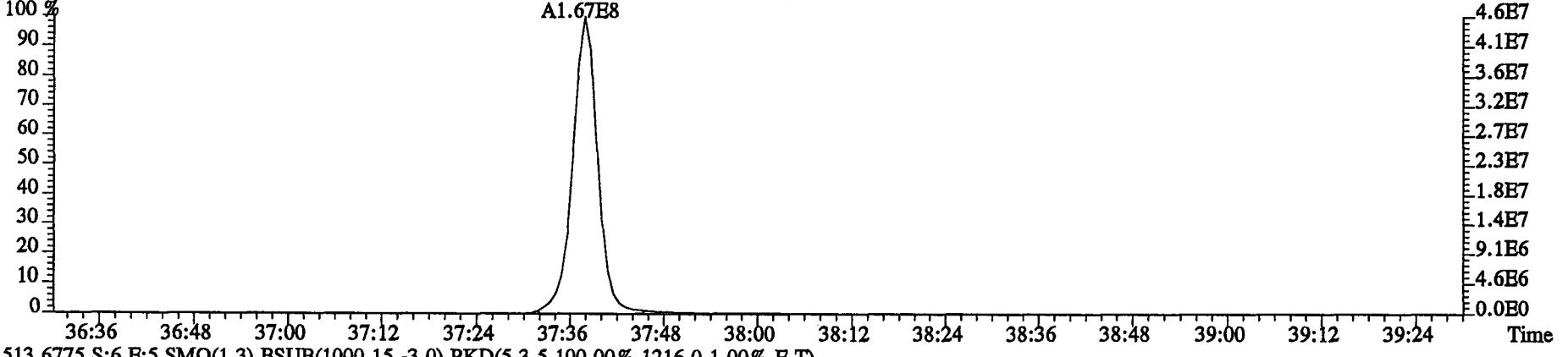
437.8140 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6628.0,1.00%,F,T)



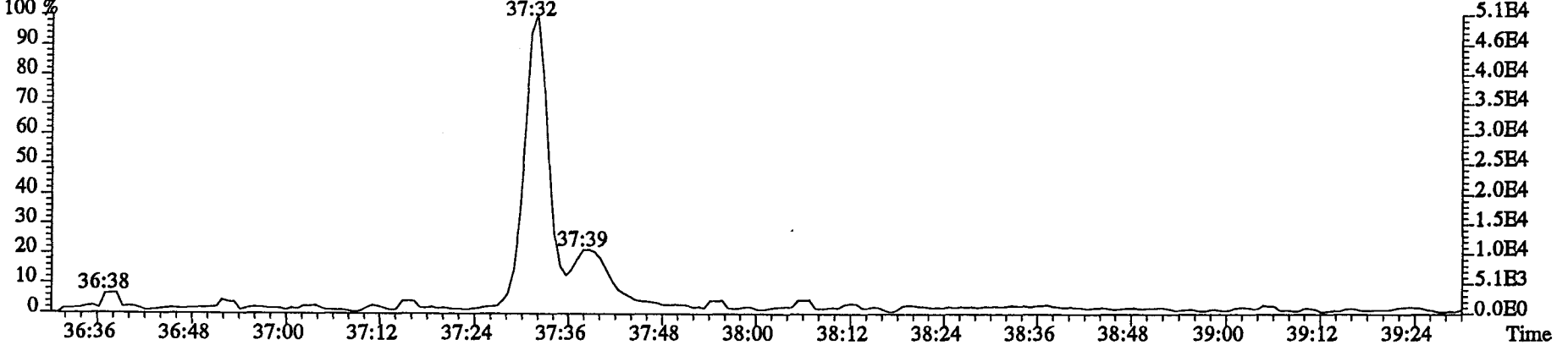
File:14DE10A9D5 #1-243 Acq:14-DEC-2010 18:34:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST1214C :CS-4 10DXN506 Exp:DIOXINRES
441.7428 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3868.0,1.00%,F,T)



443.7399 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3528.0,1.00%,F,T)

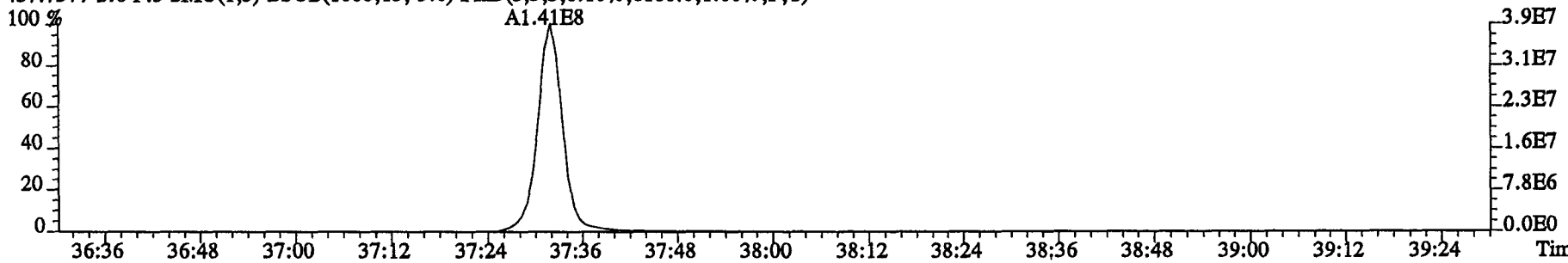


513.6775 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,1216.0,1.00%,F,T)

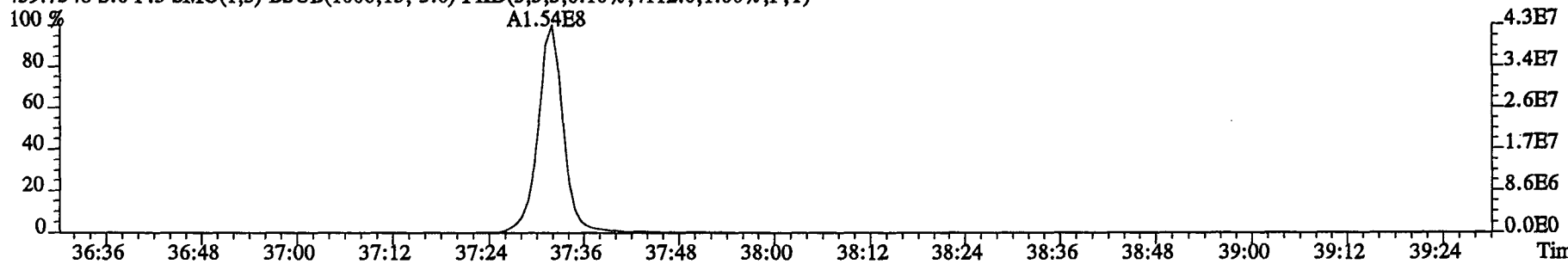


File:14DE10A9D5 #1-243 Acq:14-DEC-2010 18:34:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST1214C :CS-4 10DXN506 Exp:DIOXINRES

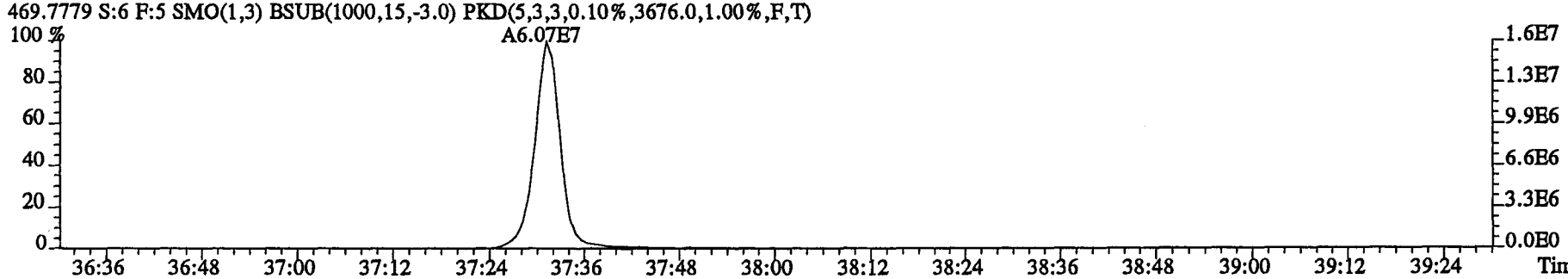
457.7377 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6180.0,1.00%,F,T)



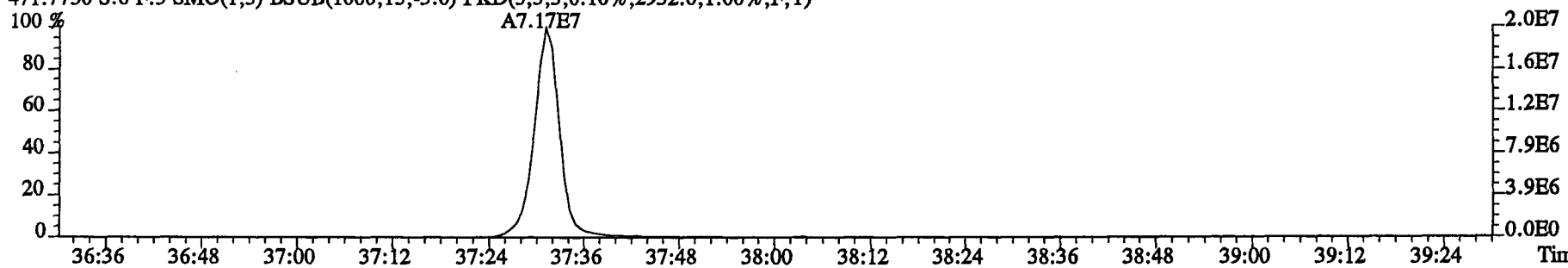
459.7348 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4112.0,1.00%,F,T)



469.7779 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3676.0,1.00%,F,T)

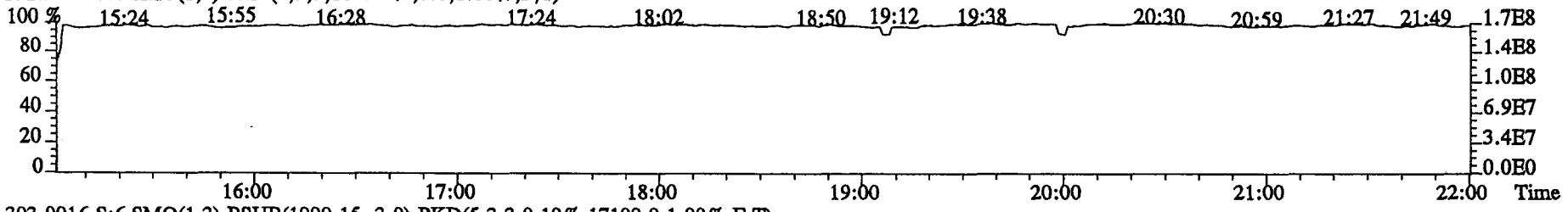


471.7750 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2932.0,1.00%,F,T)

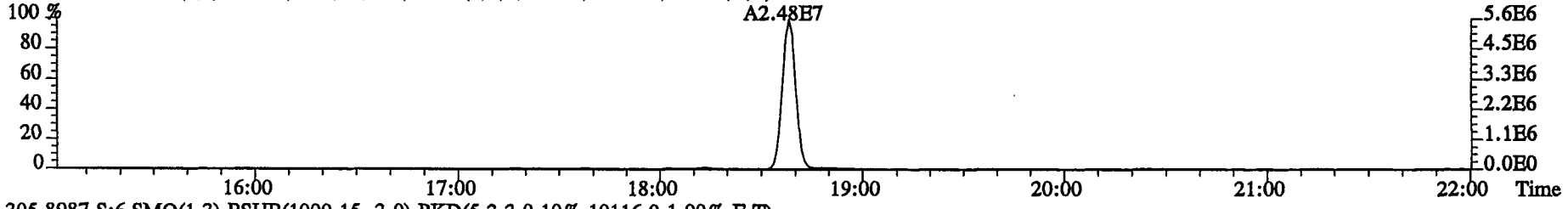


File:14DE10A9D5 #1-463 Acq:14-DEC-2010 18:34:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST1214C :CS-4 10DXN506 Exp:DIOXINRES

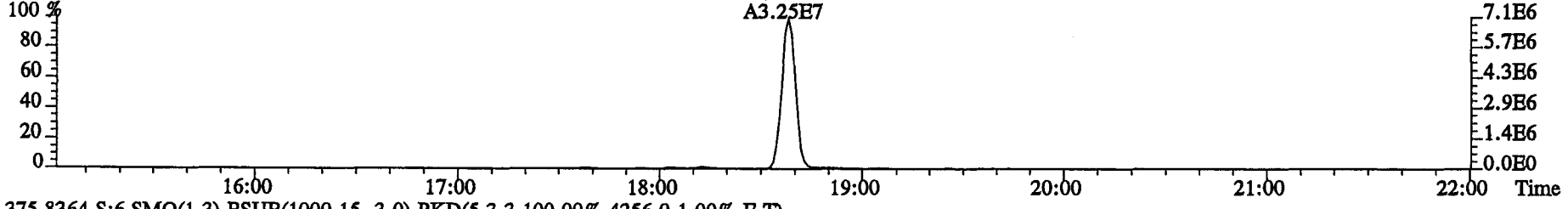
292.9825 S:6 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



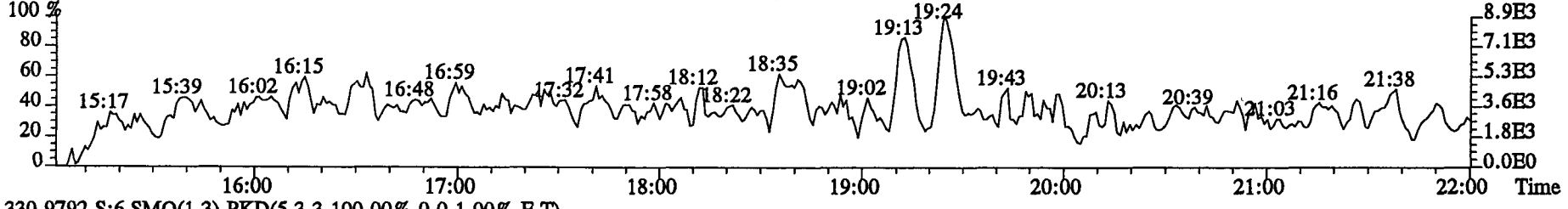
303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17100.0,1.00%,F,T)



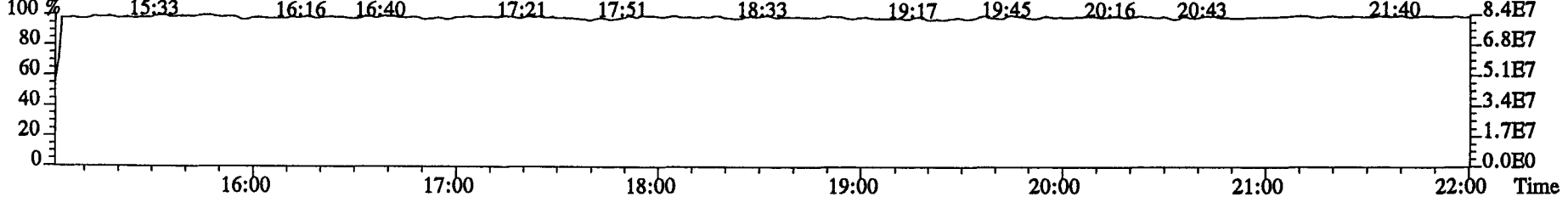
305.8987 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10116.0,1.00%,F,T)



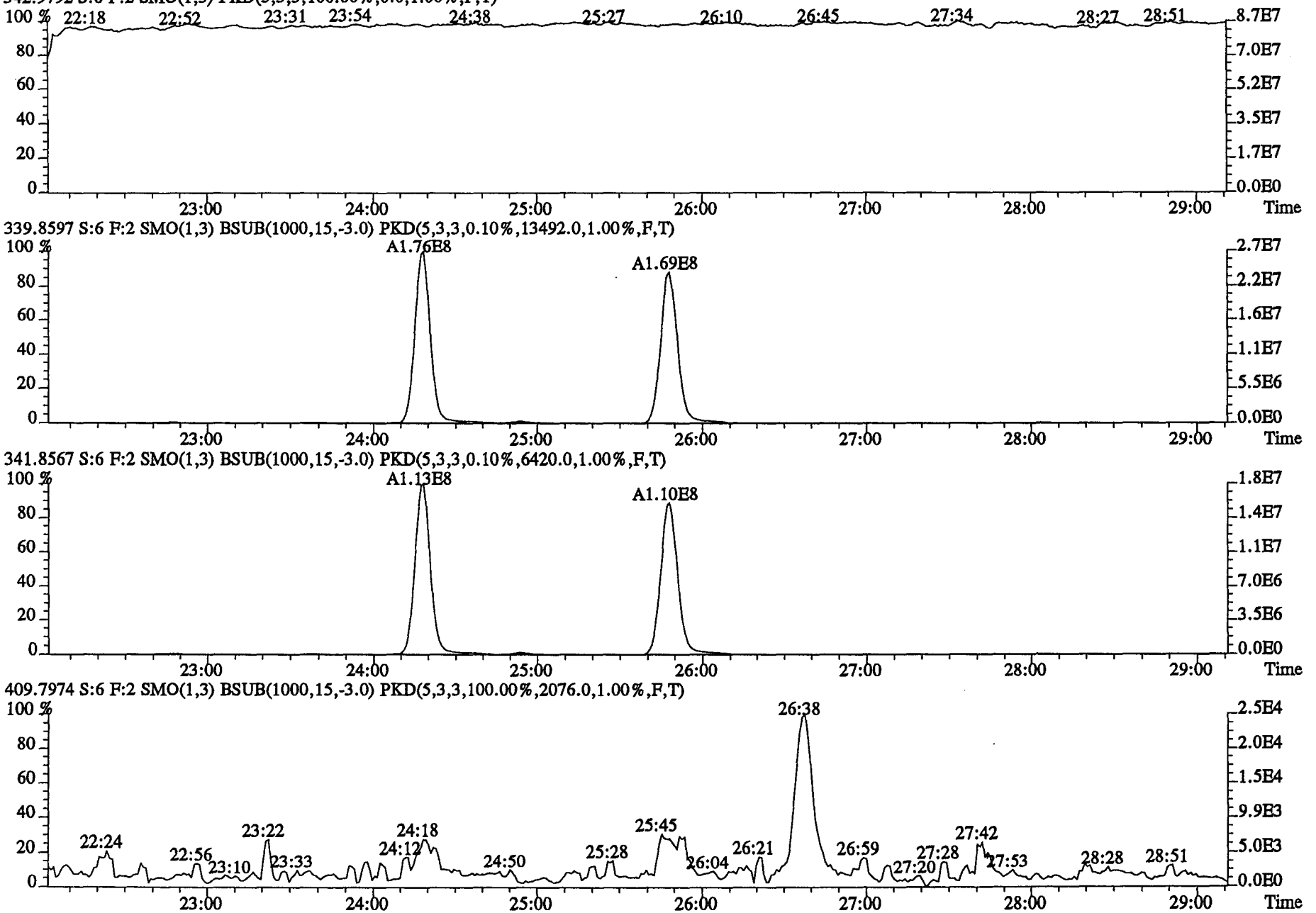
375.8364 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,4256.0,1.00%,F,T)



330.9792 S:6 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

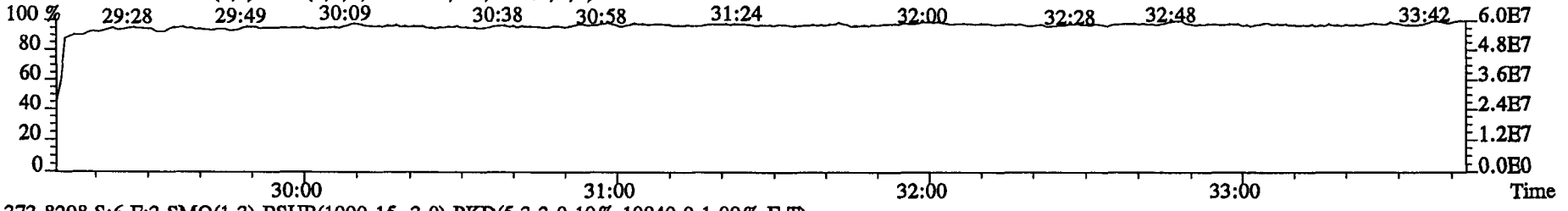


File:14DE10A9D5 #1-460 Acq:14-DEC-2010 18:34:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST1214C :CS-4 10DXN506 Exp:DIOXINRES

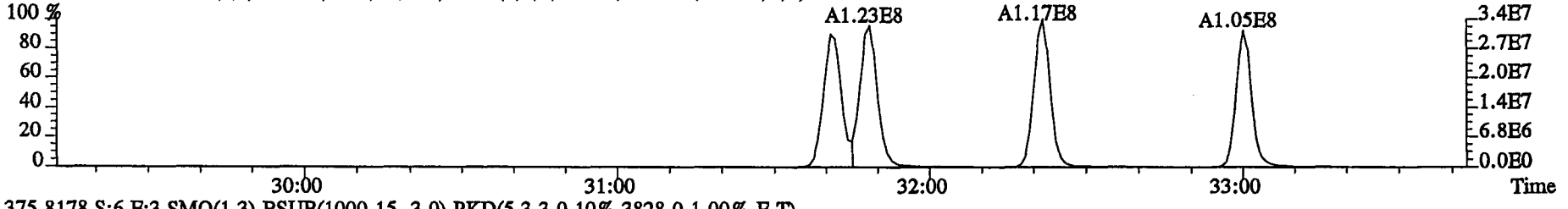


File:14DE10A9D5 #1-325 Acq:14-DEC-2010 18:34:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST1214C :CS-4 10DXN506 Exp:DIOXINRES

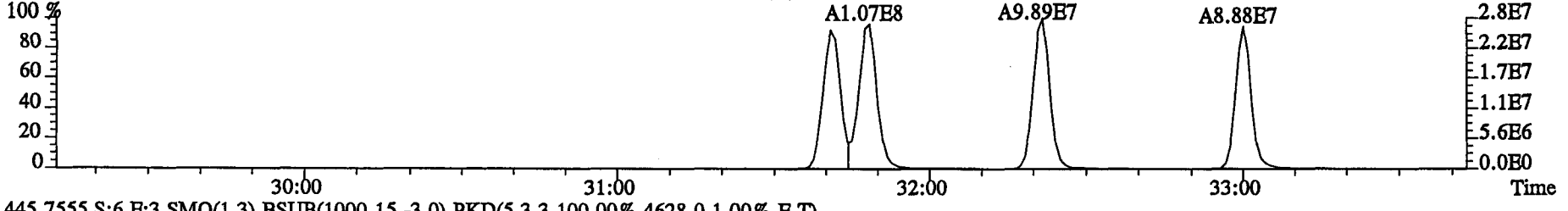
392.9760 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



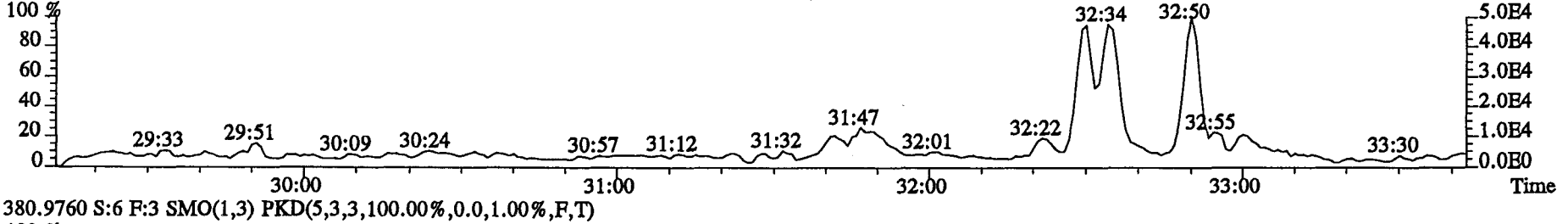
373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10940.0,1.00%,F,T)



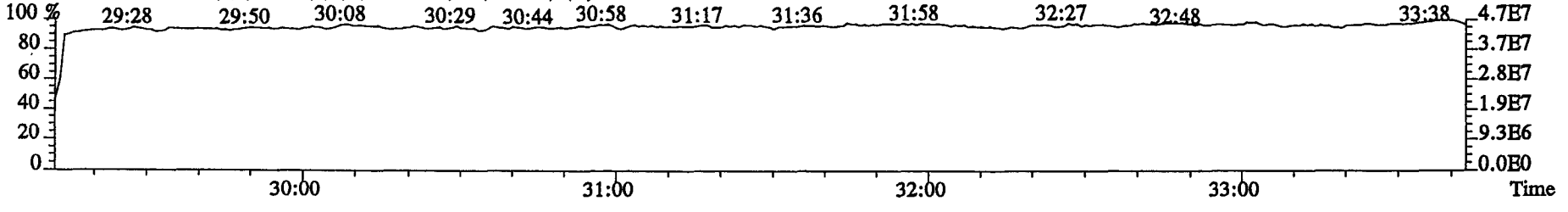
375.8178 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3828.0,1.00%,F,T)



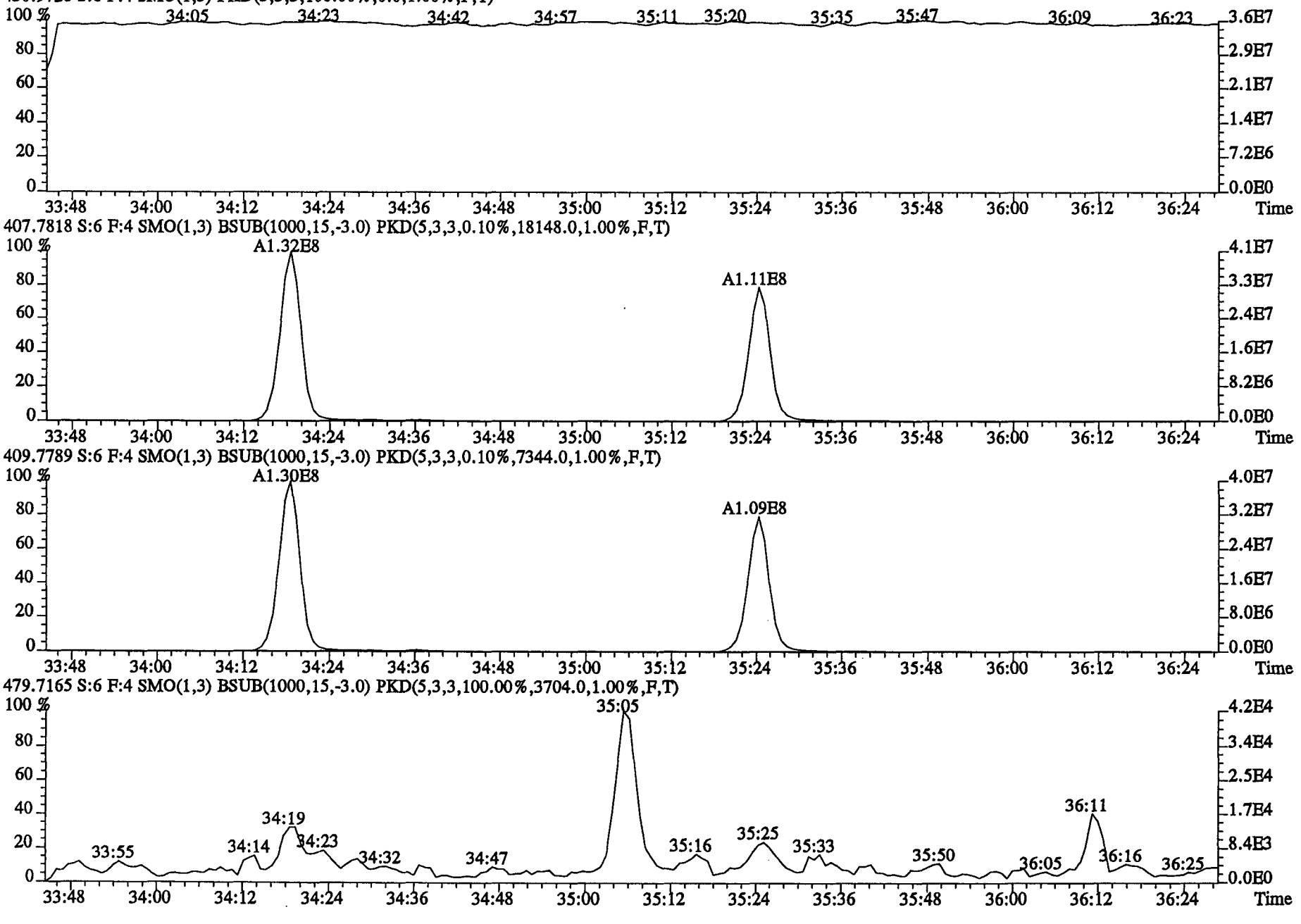
445.7555 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,4628.0,1.00%,F,T)



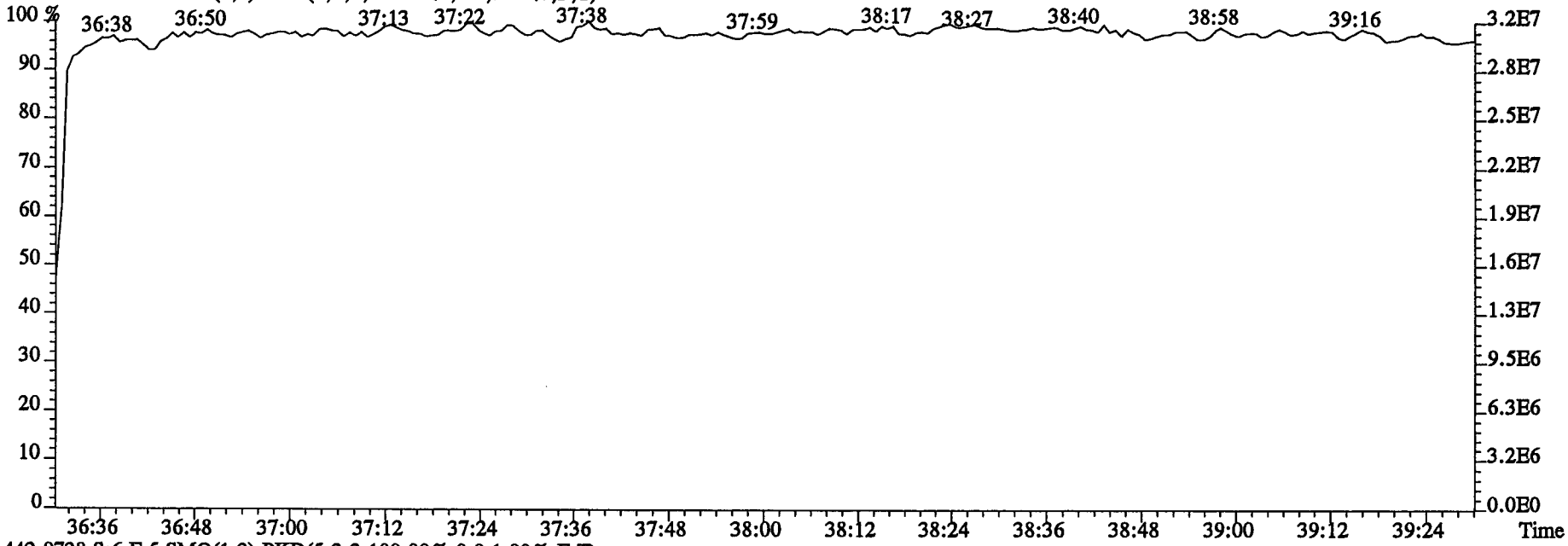
380.9760 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



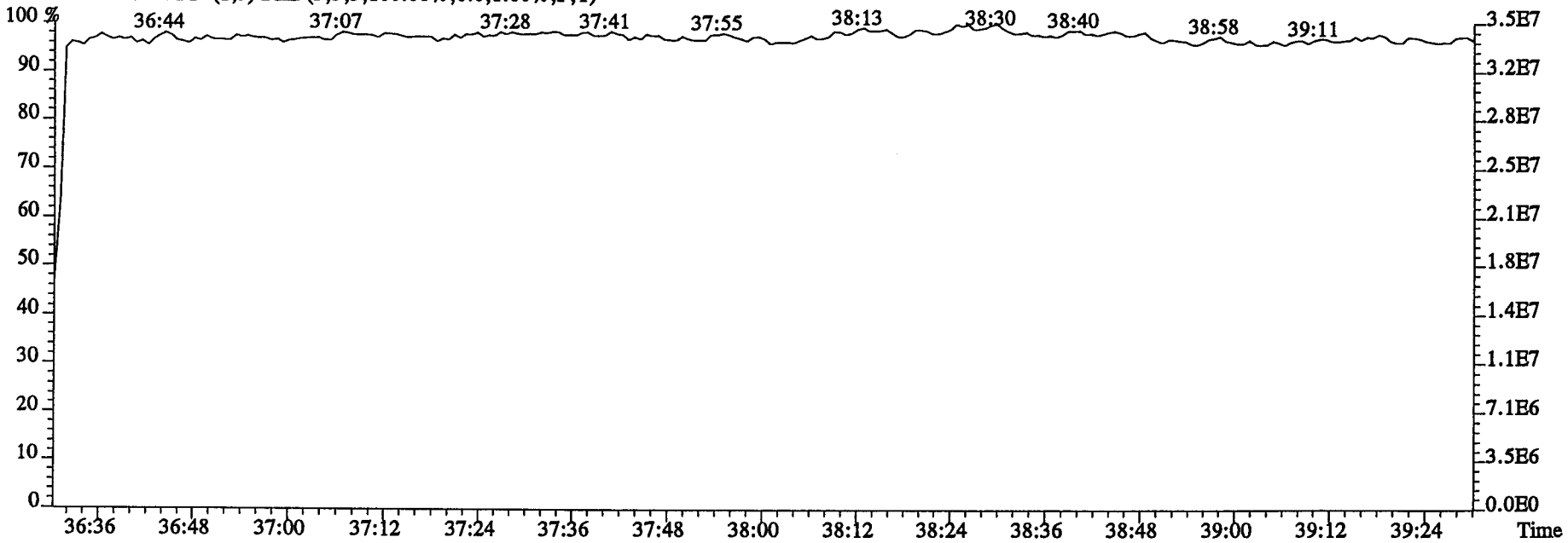
File:14DE10A9D5 #1-208 Acq:14-DEC-2010 18:34:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST1214C :CS-4 10DXN506 Exp:DIOXINRES



File:14DE10A9D5 #1-243 Acq:14-DEC-2010 18:34:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST1214C :CS-4 10DXN506 Exp:DIOXINRES
454.9728 S:6 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

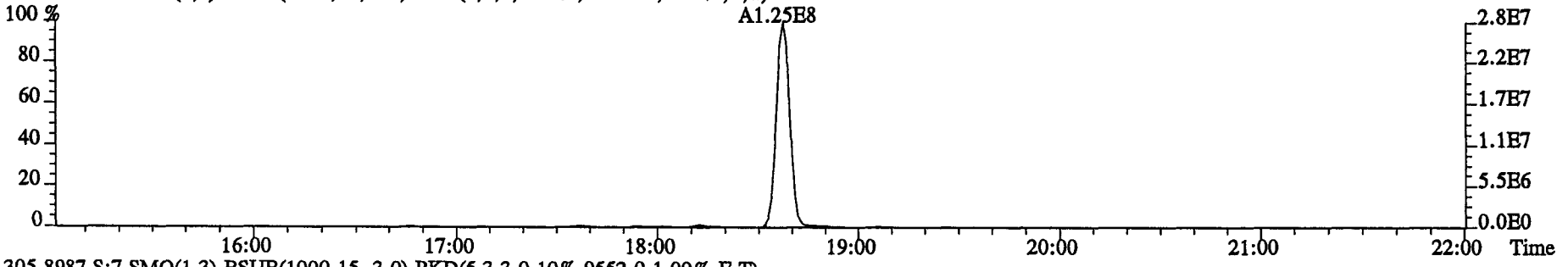


442.9728 S:6 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

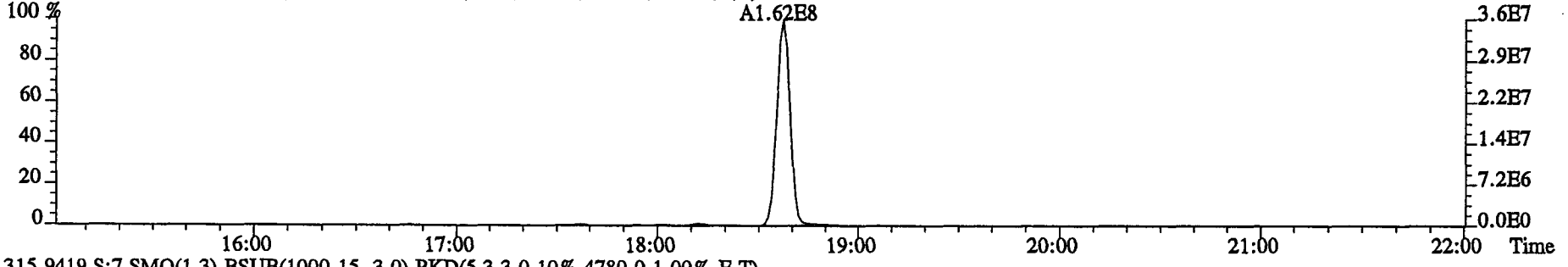


File:14DE10A9D5 #1-464 Acq:14-DEC-2010 19:18:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST1214D :CS-5 10DXN507 Exp:DIOXINRES

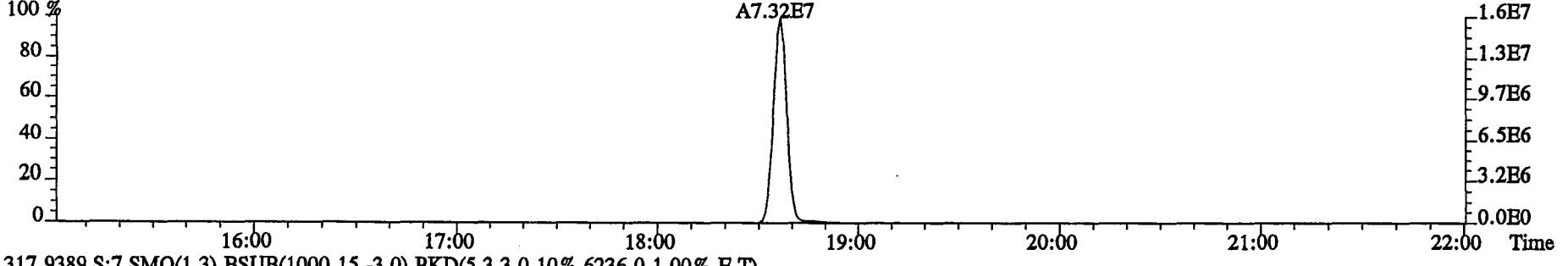
303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16800.0,1.00%,F,T)



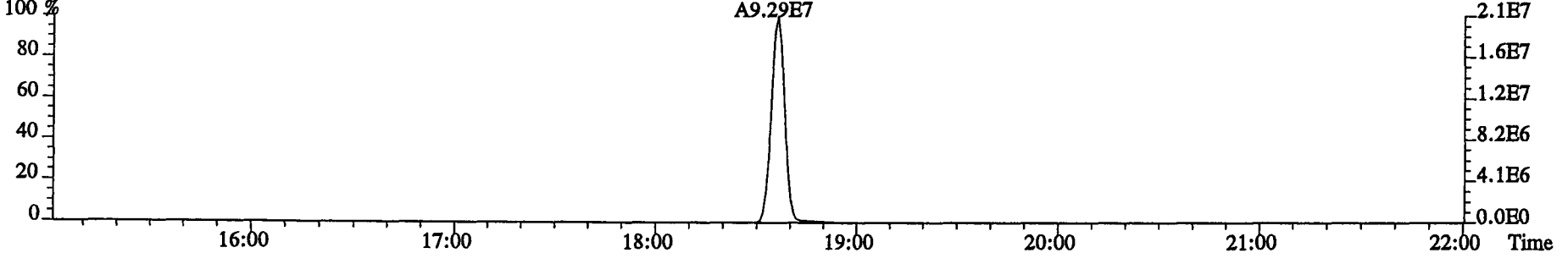
305.8987 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9552.0,1.00%,F,T)



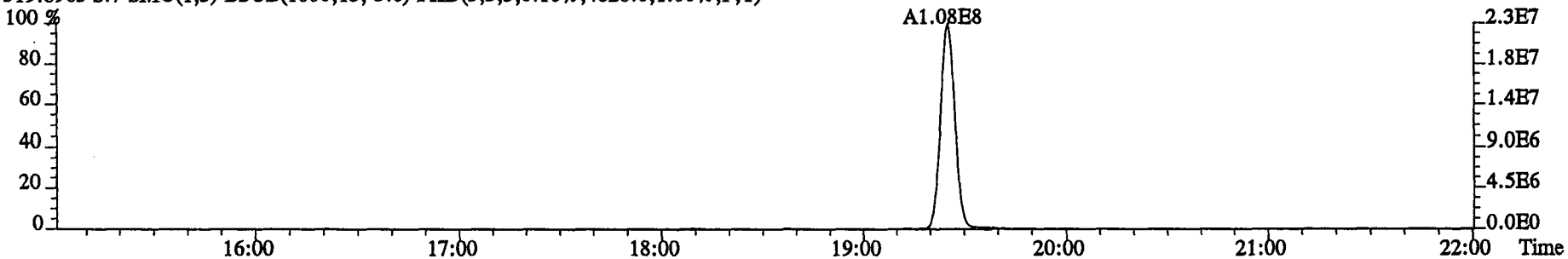
315.9419 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4780.0,1.00%,F,T)

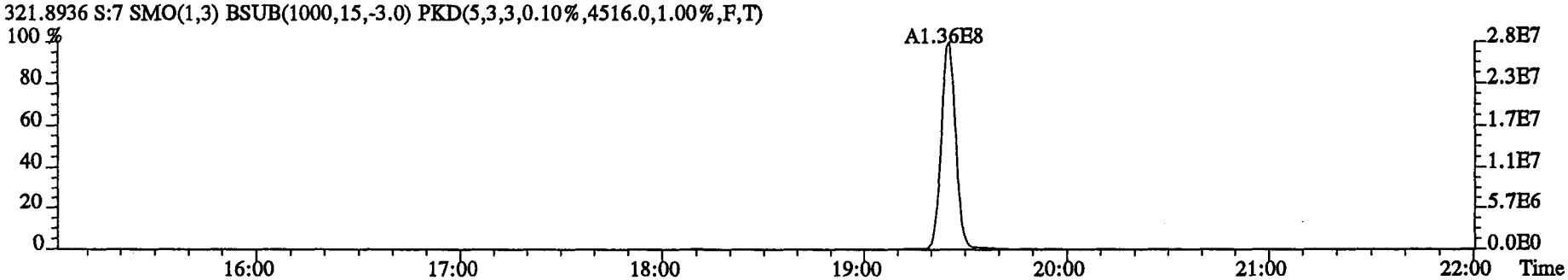


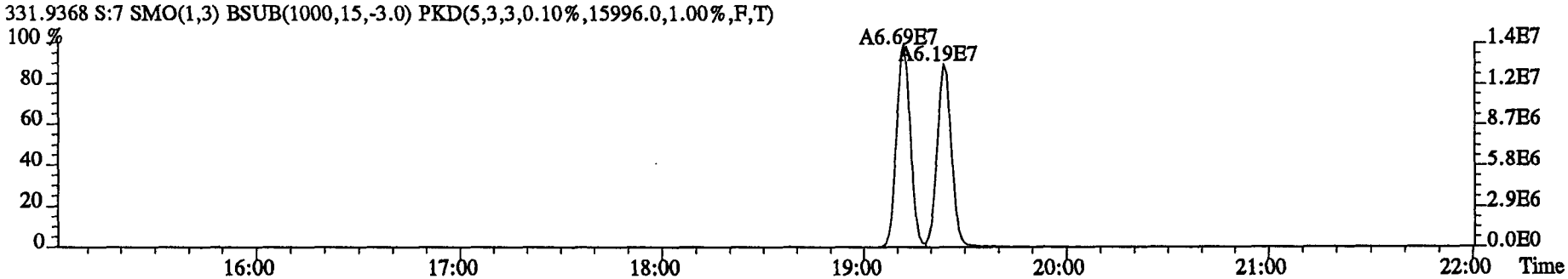
317.9389 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6236.0,1.00%,F,T)

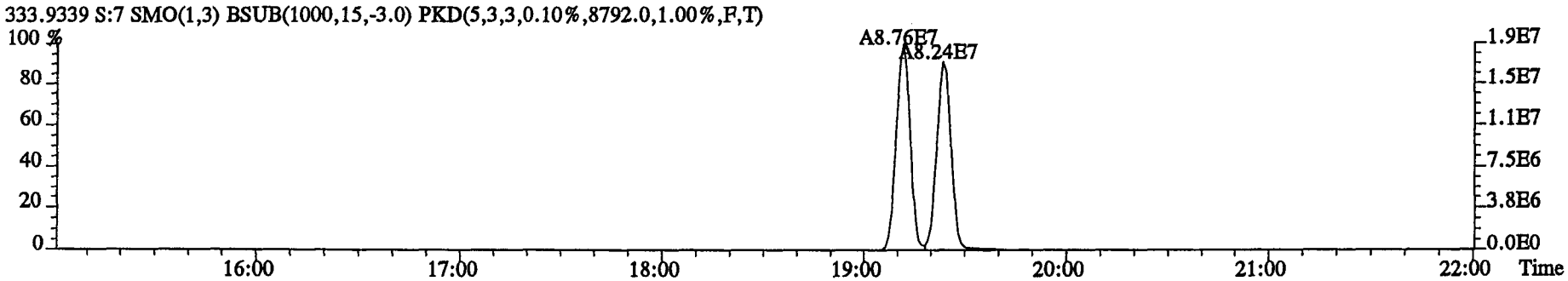


File:14DE10A9D5 #1-464 Acq:14-DEC-2010 19:18:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST1214D :CS-5 10DXN507 Exp:DIOXINRES

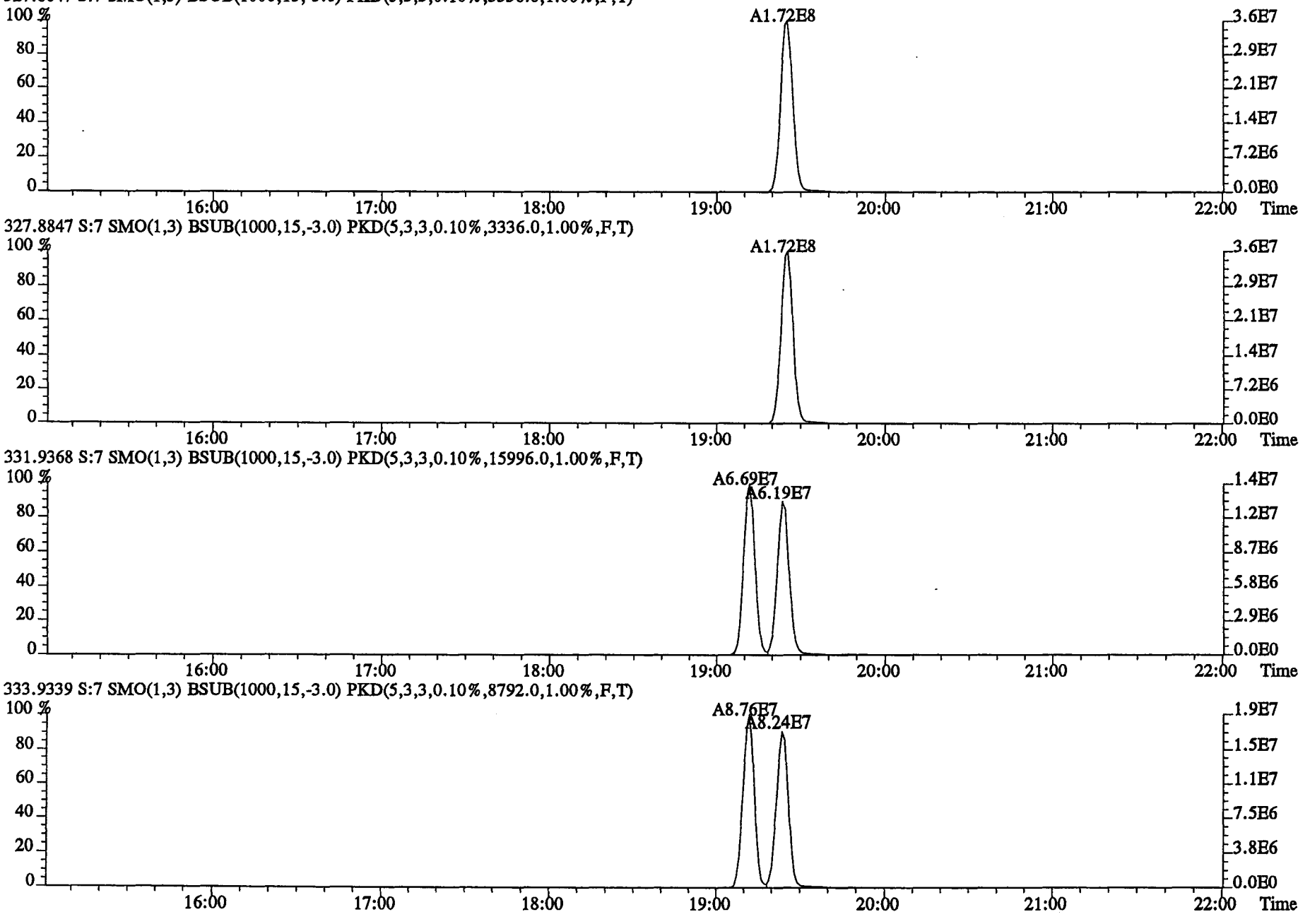






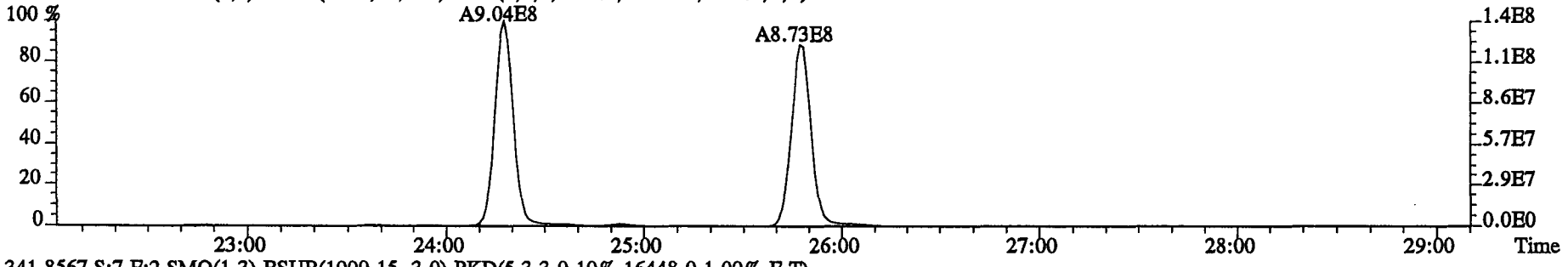


File:14DE10A9D5 #1-464 Acq:14-DEC-2010 19:18:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST1214D :CS-5 10DXN507 Exp:DIOXINRES

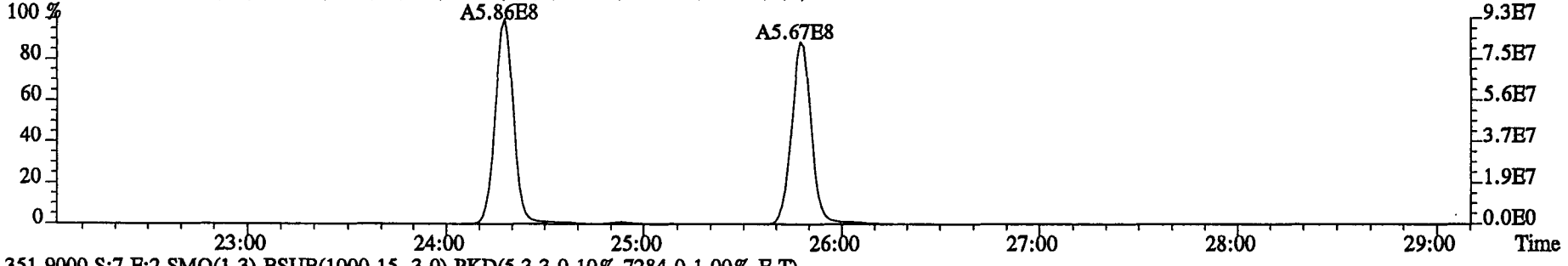


File:14DE10A9D5 #1-459 Acq:14-DEC-2010 19:18:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST1214D :CS-5 10DXN507 Exp:DIOXINRES

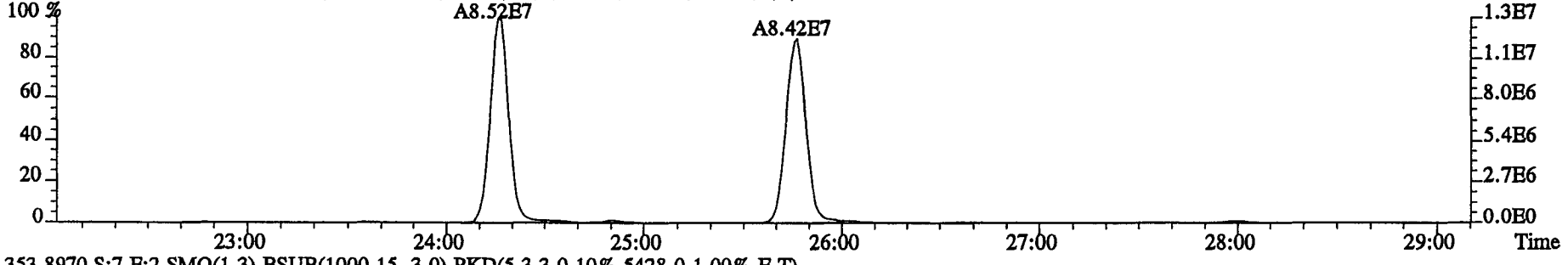
339.8597 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,25008.0,1.00%,F,T)



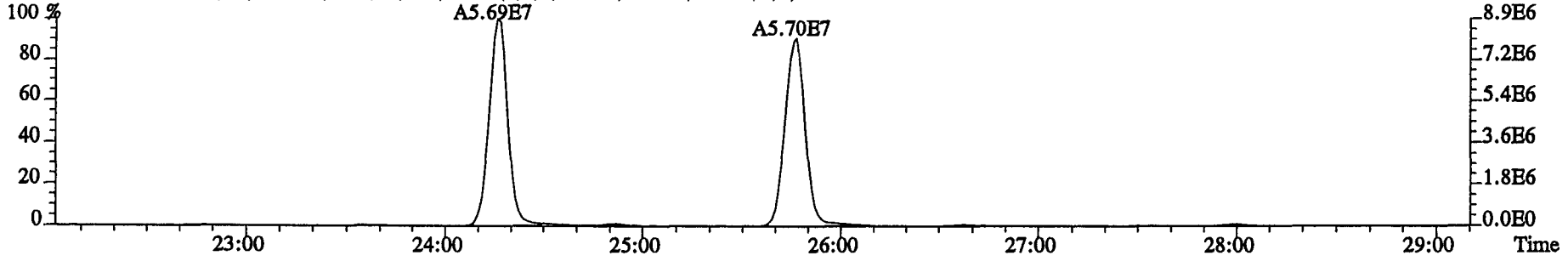
341.8567 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16448.0,1.00%,F,T)



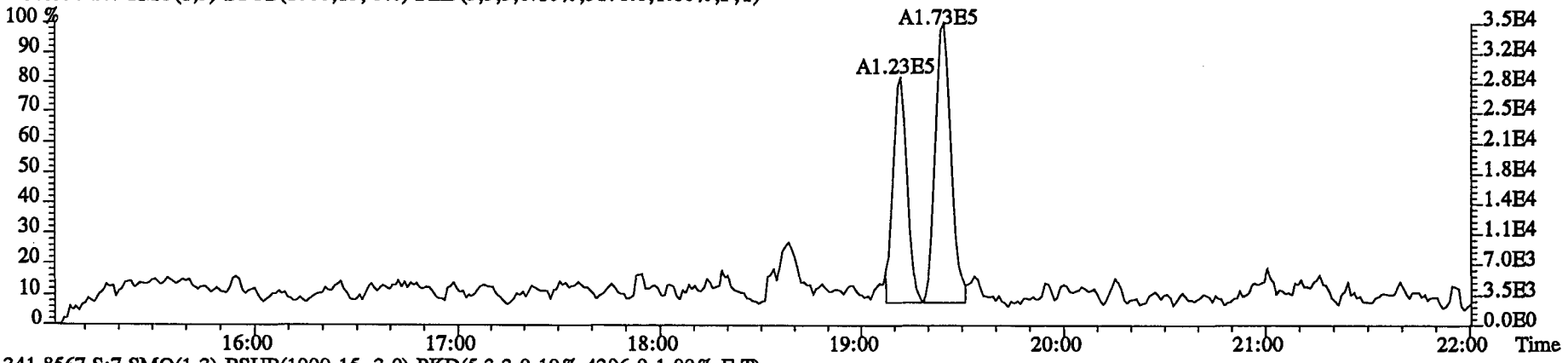
351.9000 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7284.0,1.00%,F,T)



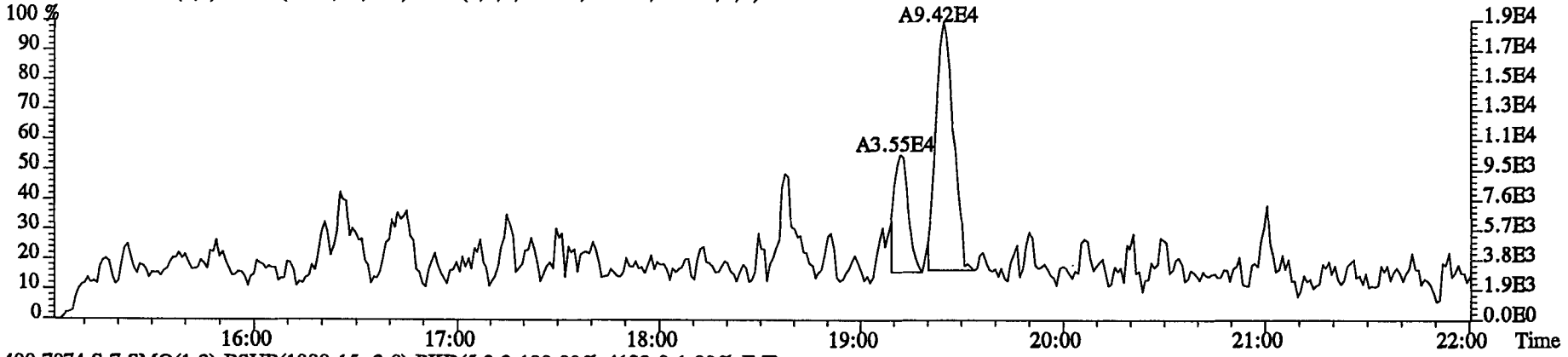
353.8970 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5428.0,1.00%,F,T)



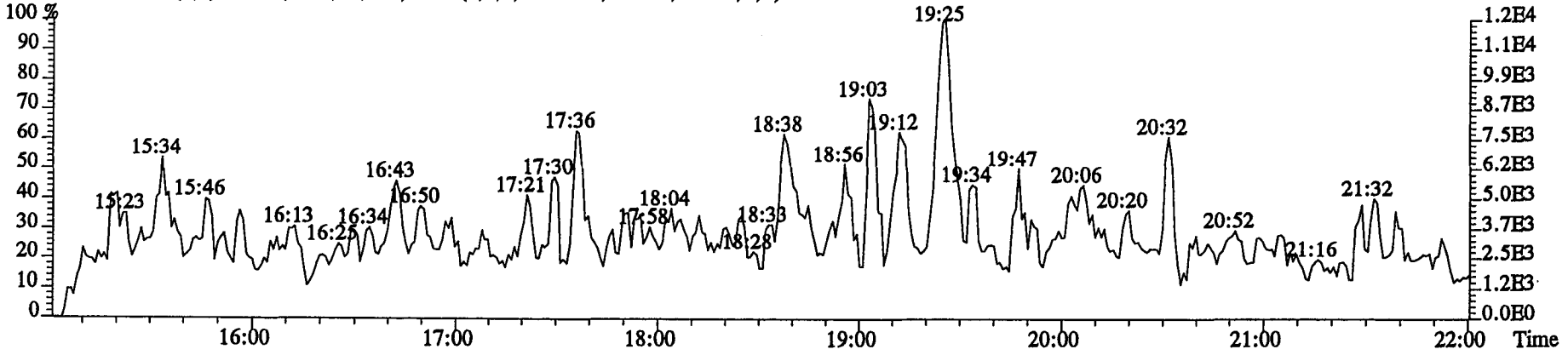
File:14DE10A9D5 #1-464 Acq:14-DEC-2010 19:18:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST1214D :CS-5 10DXN507 Exp:DIOXINRES
339.8597 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5176.0,1.00%,F,T)



341.8567 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4396.0,1.00%,F,T)

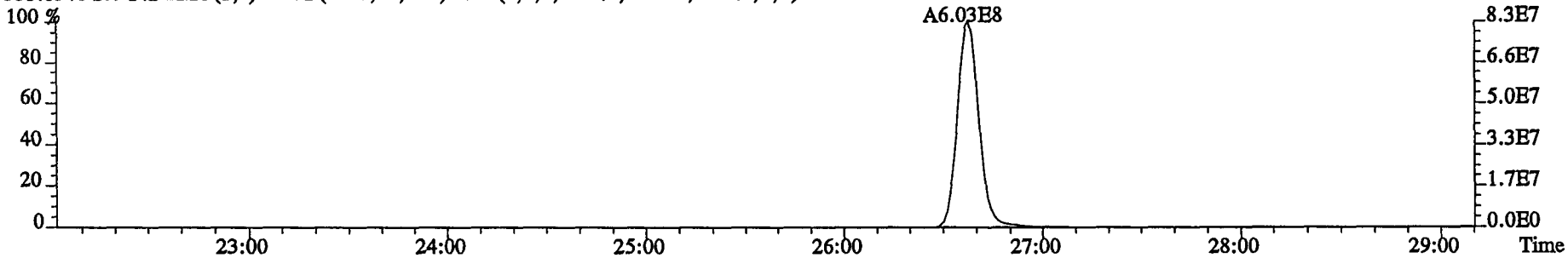


409.7974 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,4132.0,1.00%,F,T)

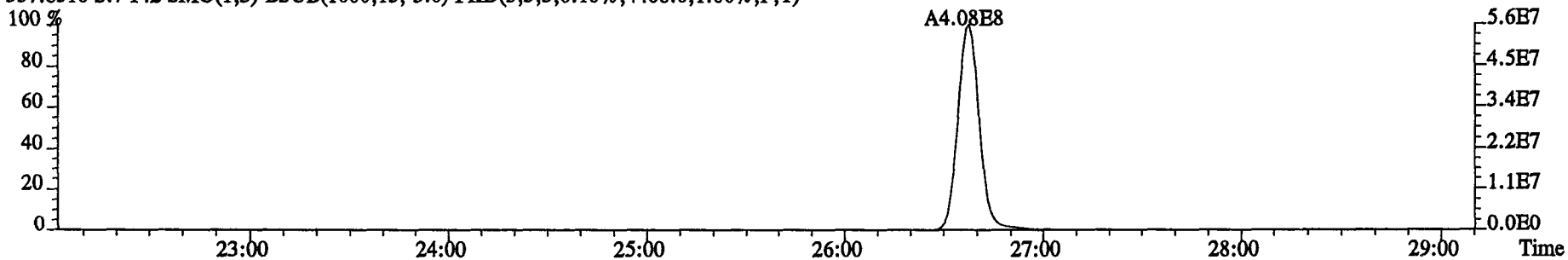


File:14DE10A9D5 #1-459 Acq:14-DEC-2010 19:18:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST1214D :CS-5 10DXN507 Exp:DIOXINRES

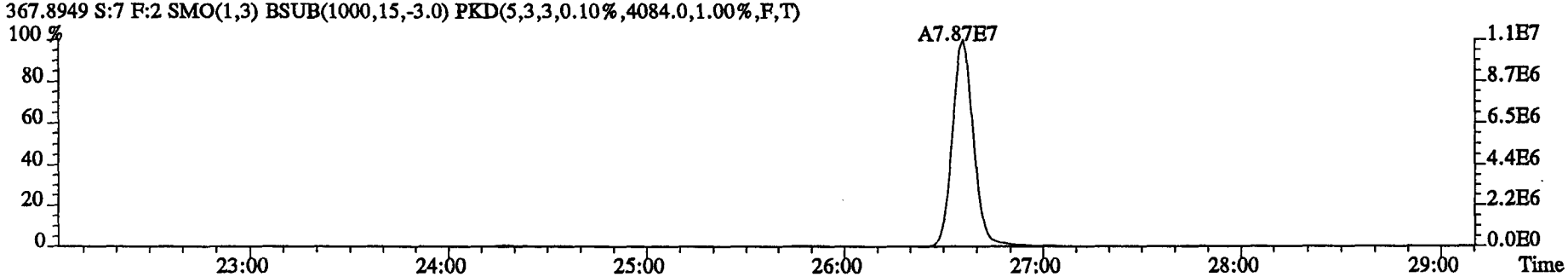
355.8546 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4512.0,1.00%,F,T)



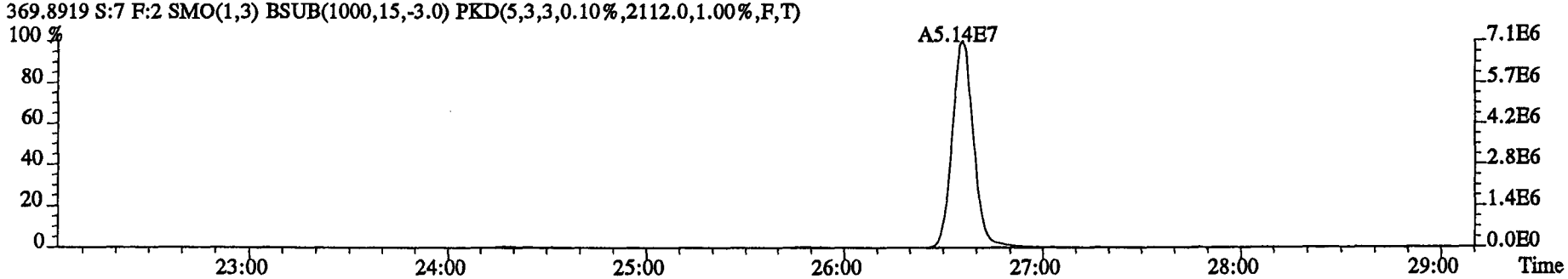
357.8516 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4408.0,1.00%,F,T)



367.8949 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4084.0,1.00%,F,T)

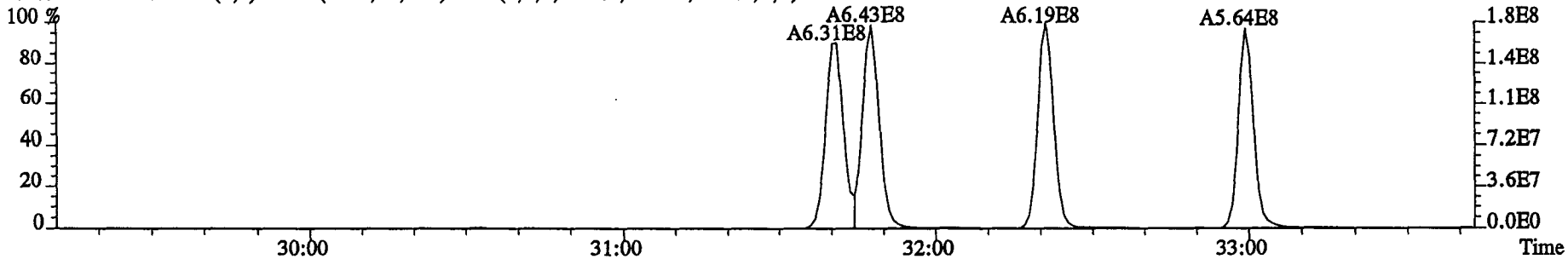


369.8919 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2112.0,1.00%,F,T)

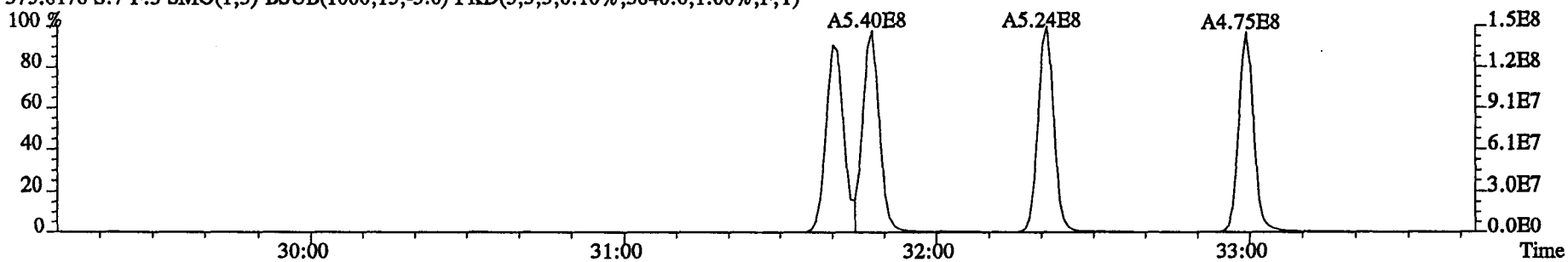


File:14DE10A9D5 #1-326 Acq:14-DEC-2010 19:18:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST1214D :CS-5 10DXN507 Exp:DIOXINRES

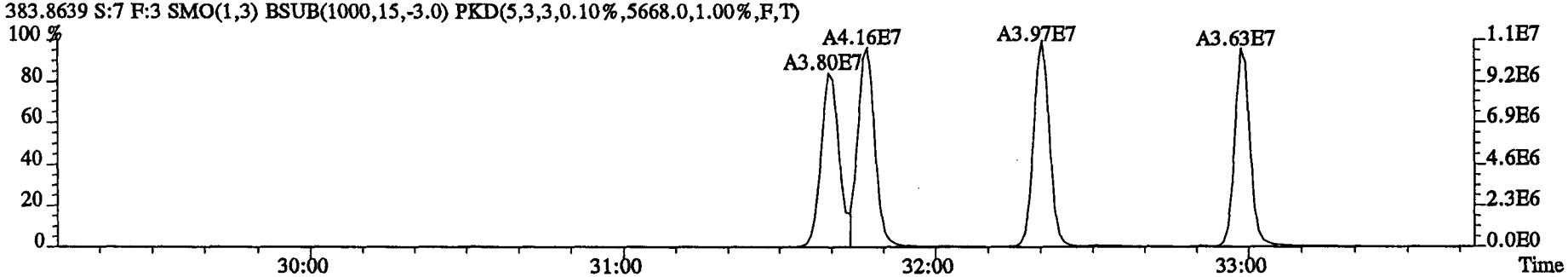
373.8208 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7960.0,1.00%,F,T)



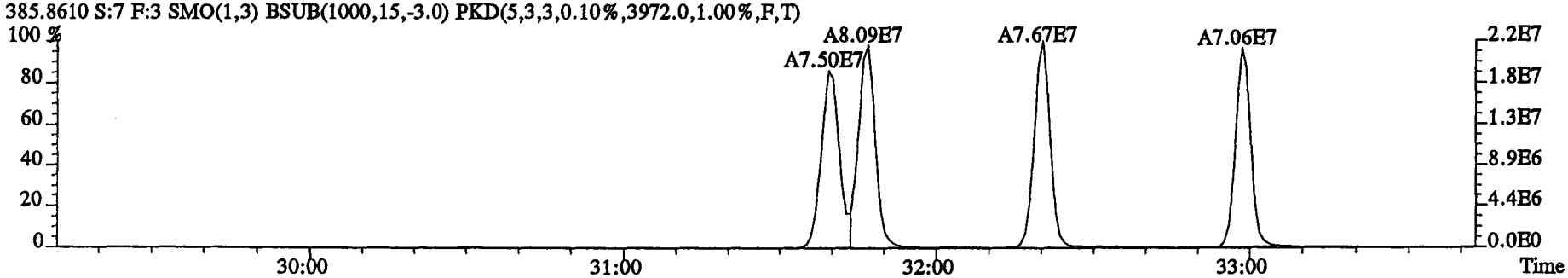
375.8178 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3840.0,1.00%,F,T)



383.8639 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5668.0,1.00%,F,T)

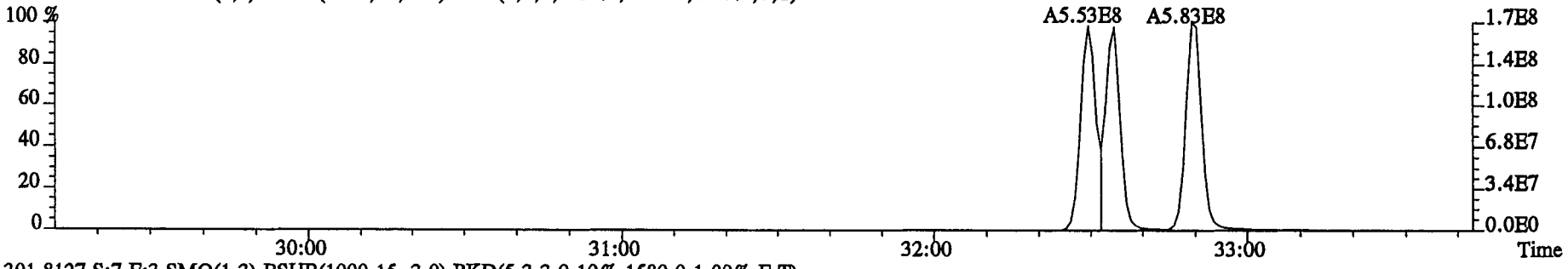


385.8610 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3972.0,1.00%,F,T)

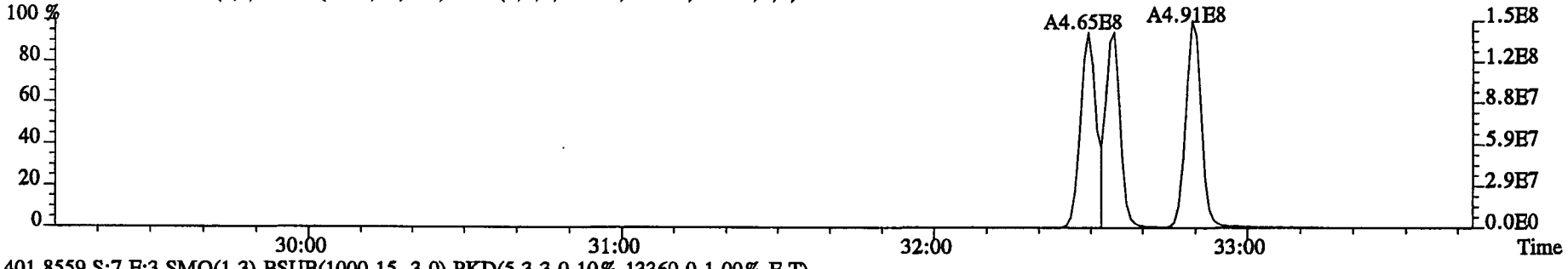


File:14DE10A9D5 #1-326 Acq:14-DEC-2010 19:18:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST1214D :CS-5 10DXN507 Exp:DIOXINRES

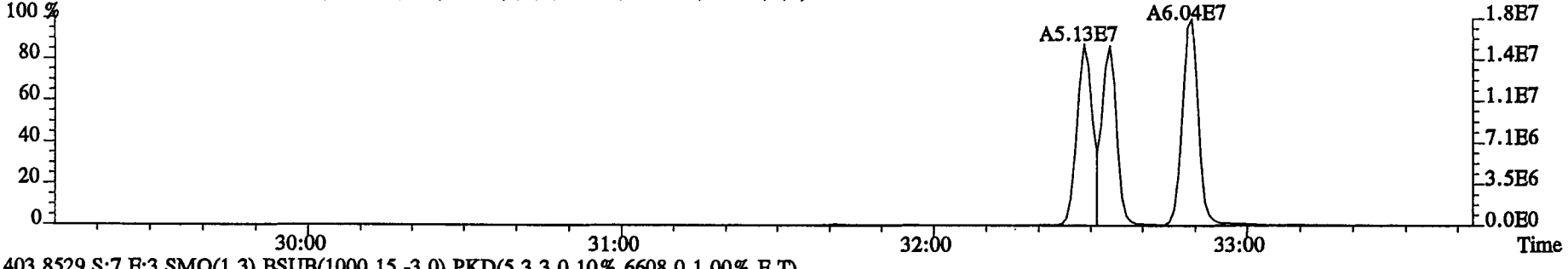
389.8157 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1860.0,1.00%,F,T)



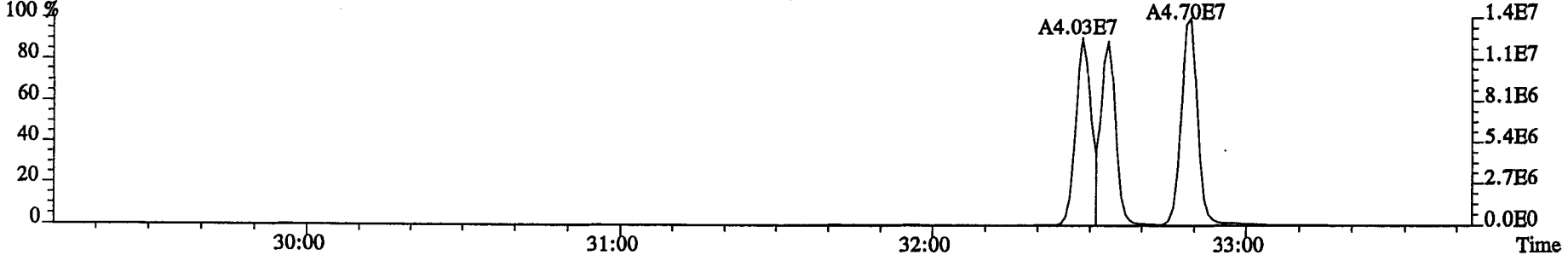
391.8127 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1580.0,1.00%,F,T)



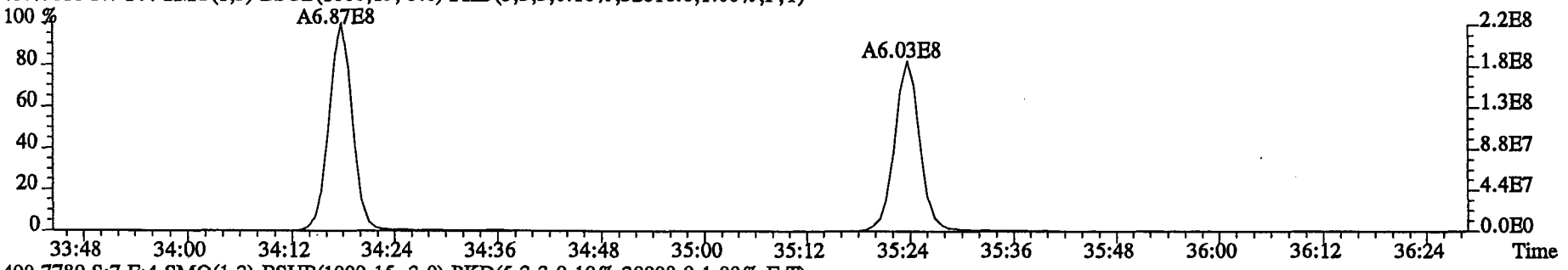
401.8559 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13360.0,1.00%,F,T)

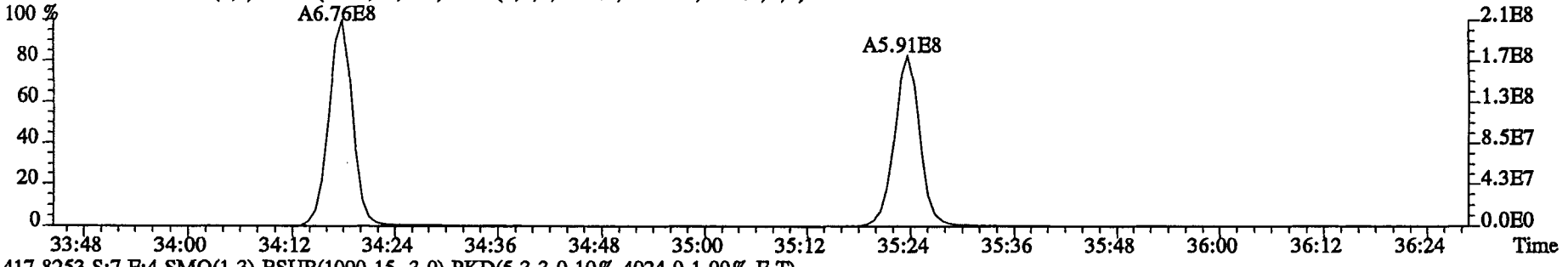


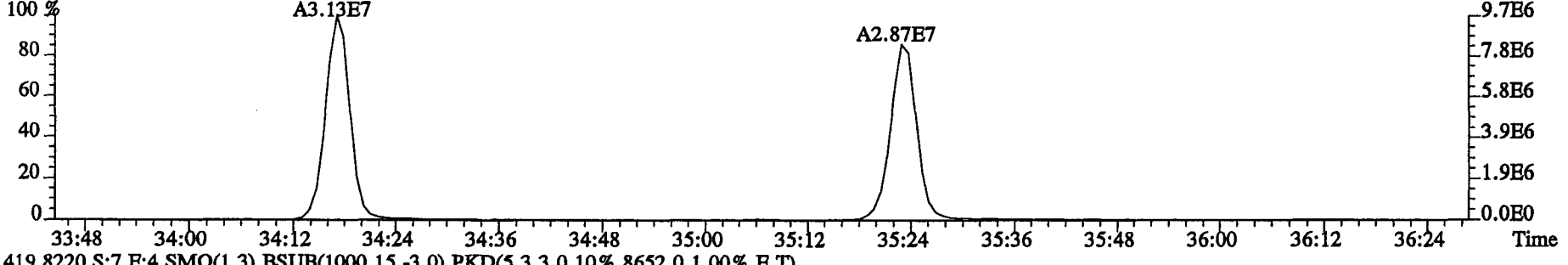
403.8529 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6608.0,1.00%,F,T)

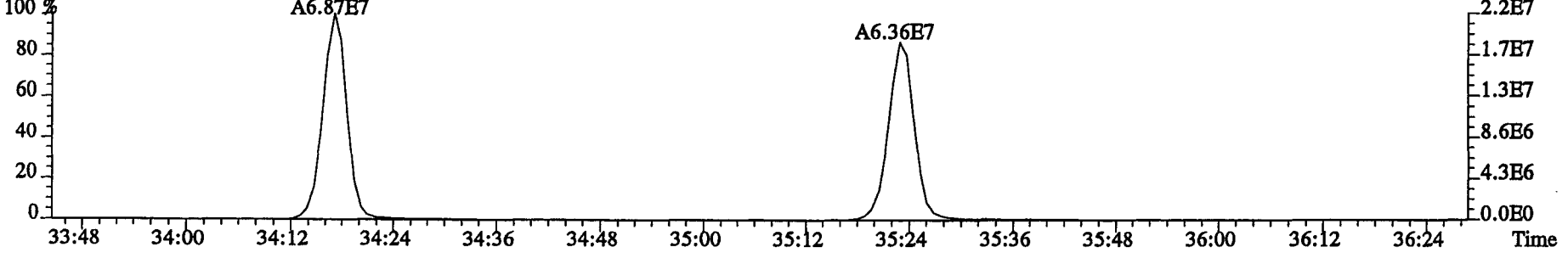


File:14DE10A9D5 #1-208 Acq:14-DEC-2010 19:18:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST1214D :CS-5 10DXN507 Exp:DIOXINRES

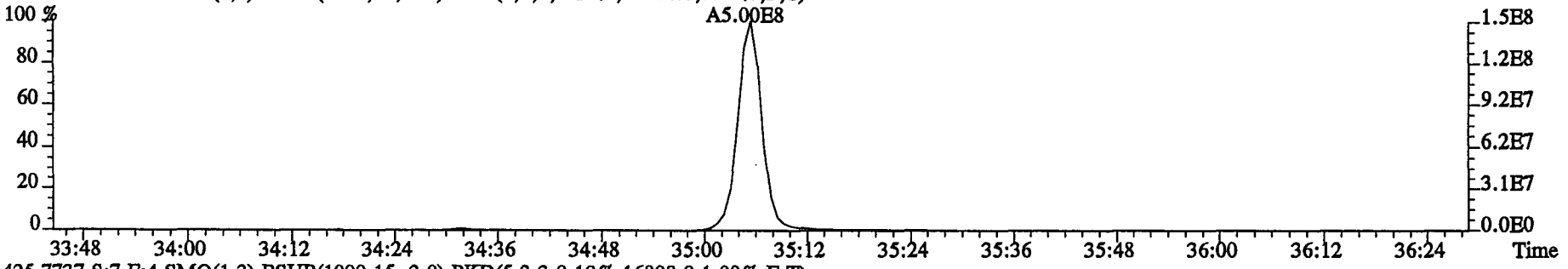




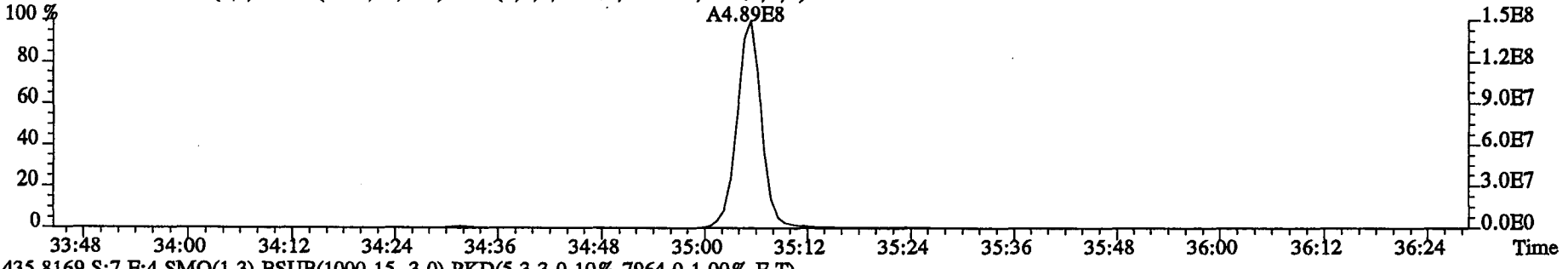




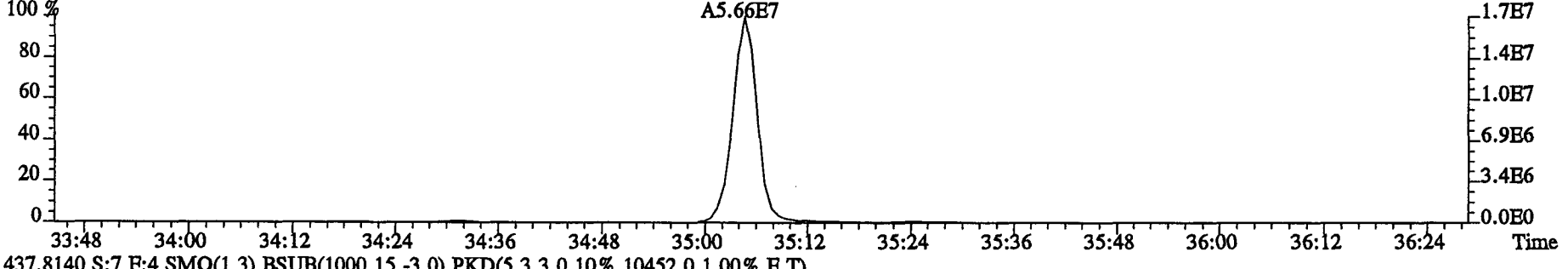
File:14DE10A9D5 #1-208 Acq:14-DEC-2010 19:18:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST1214D :CS-5 10DXN507 Exp:DIOXINRES
423.7766 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22804.0,1.00%,F,T)



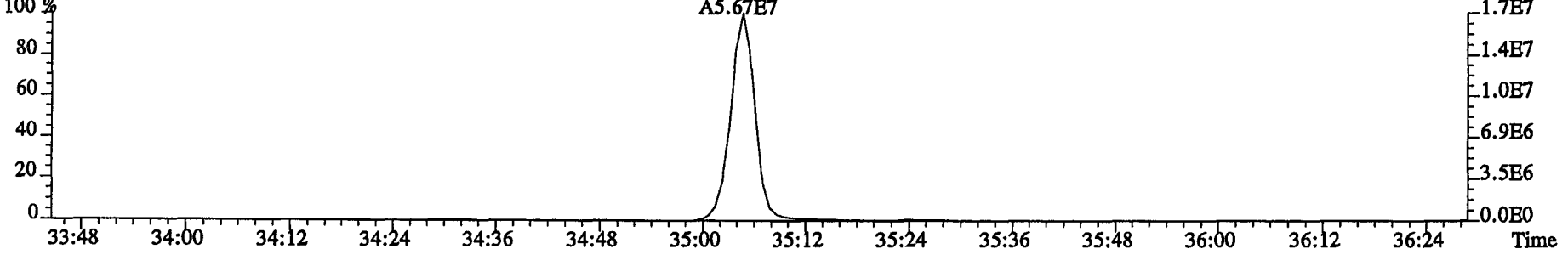
425.7737 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16808.0,1.00%,F,T)



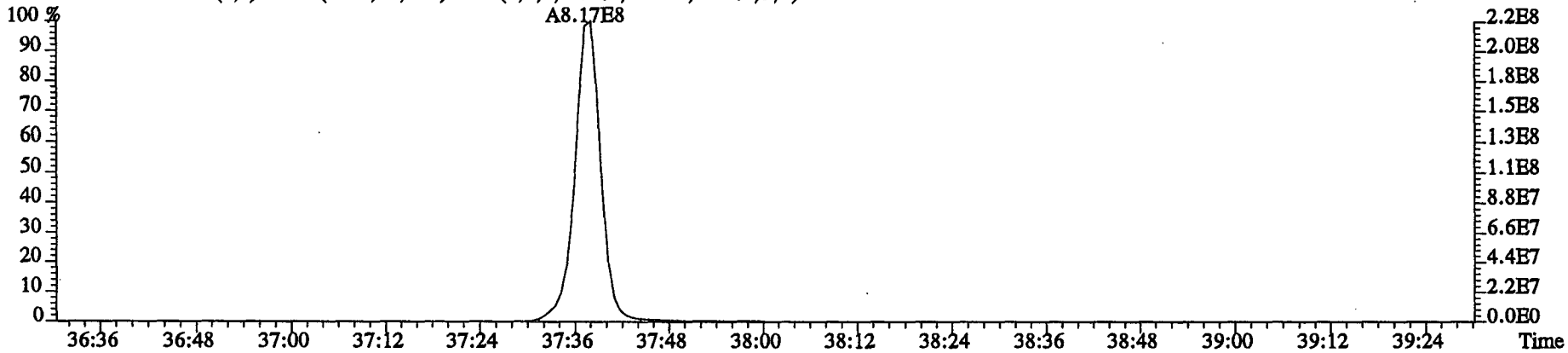
435.8169 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7964.0,1.00%,F,T)



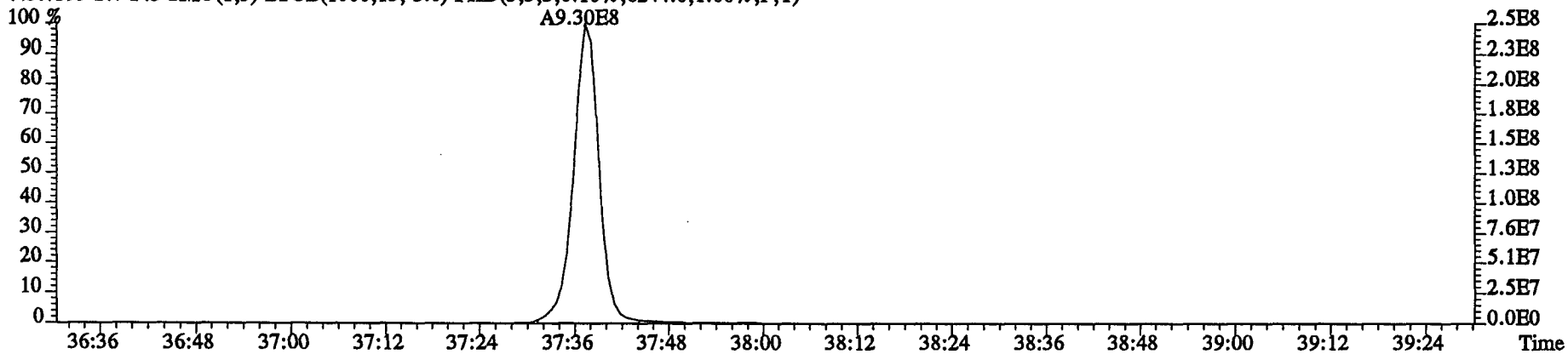
437.8140 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10452.0,1.00%,F,T)



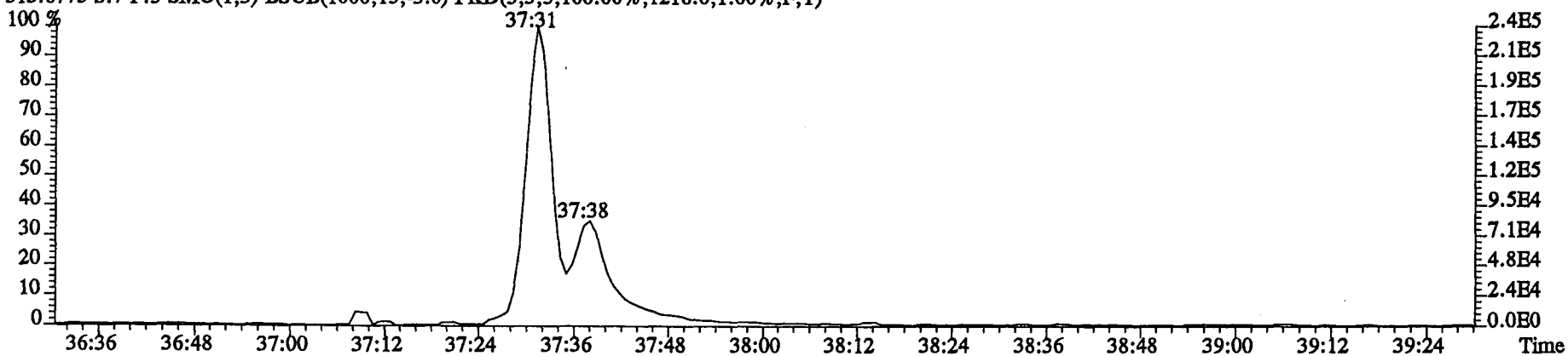
File:14DE10A9D5 #1-243 Acq:14-DEC-2010 19:18:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST1214D :CS-5 10DXN507 Exp:DIOXINRES
441.7428 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6004.0,1.00%,F,T)



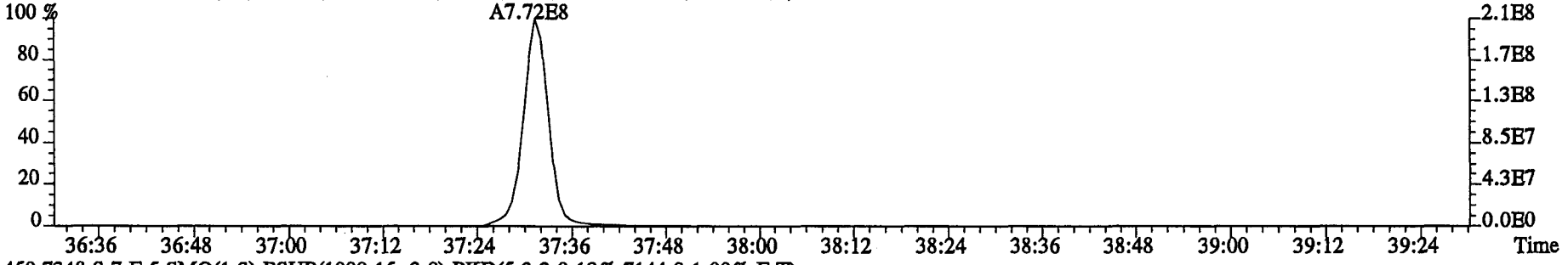
443.7399 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6244.0,1.00%,F,T)



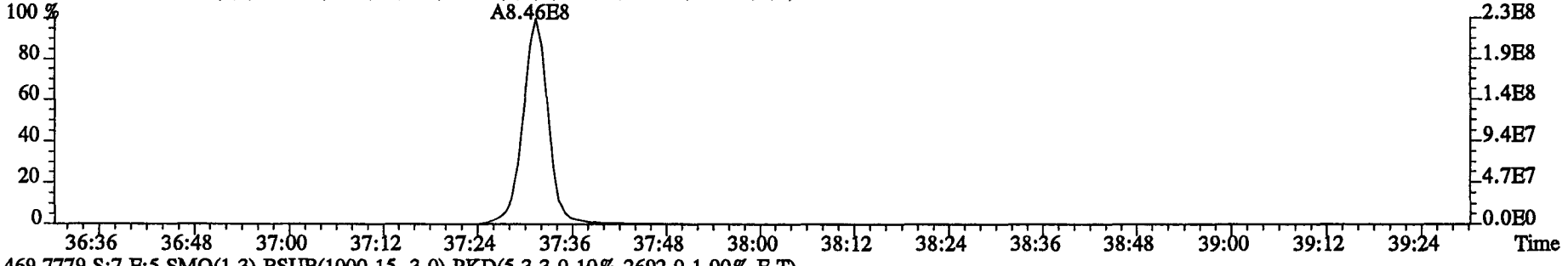
513.6775 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,1216.0,1.00%,F,T)



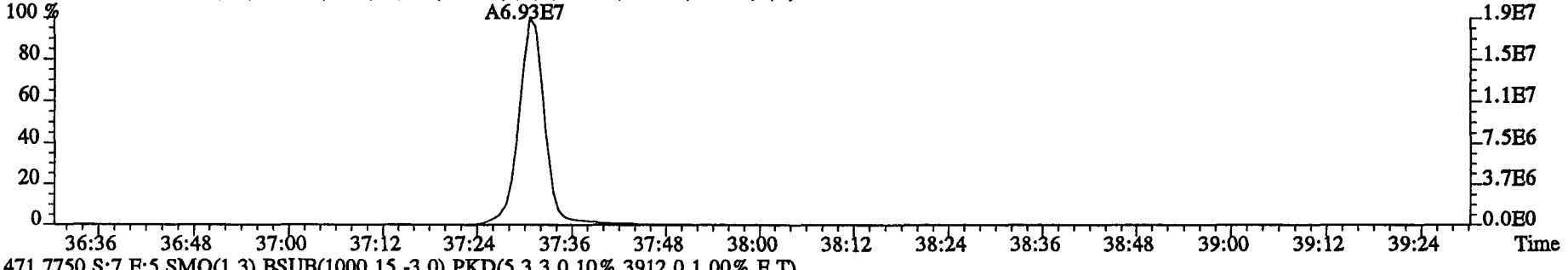
File:14DE10A9D5 #1-243 Acq:14-DEC-2010 19:18:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST1214D :CS-5 10DXN507 Exp:DIOXINRES
457.7377 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9204.0,1.00%,F,T)



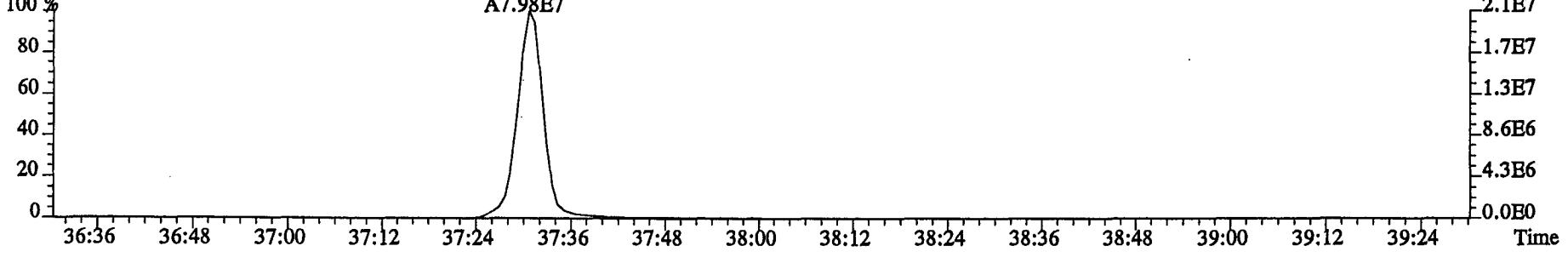
459.7348 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7144.0,1.00%,F,T)



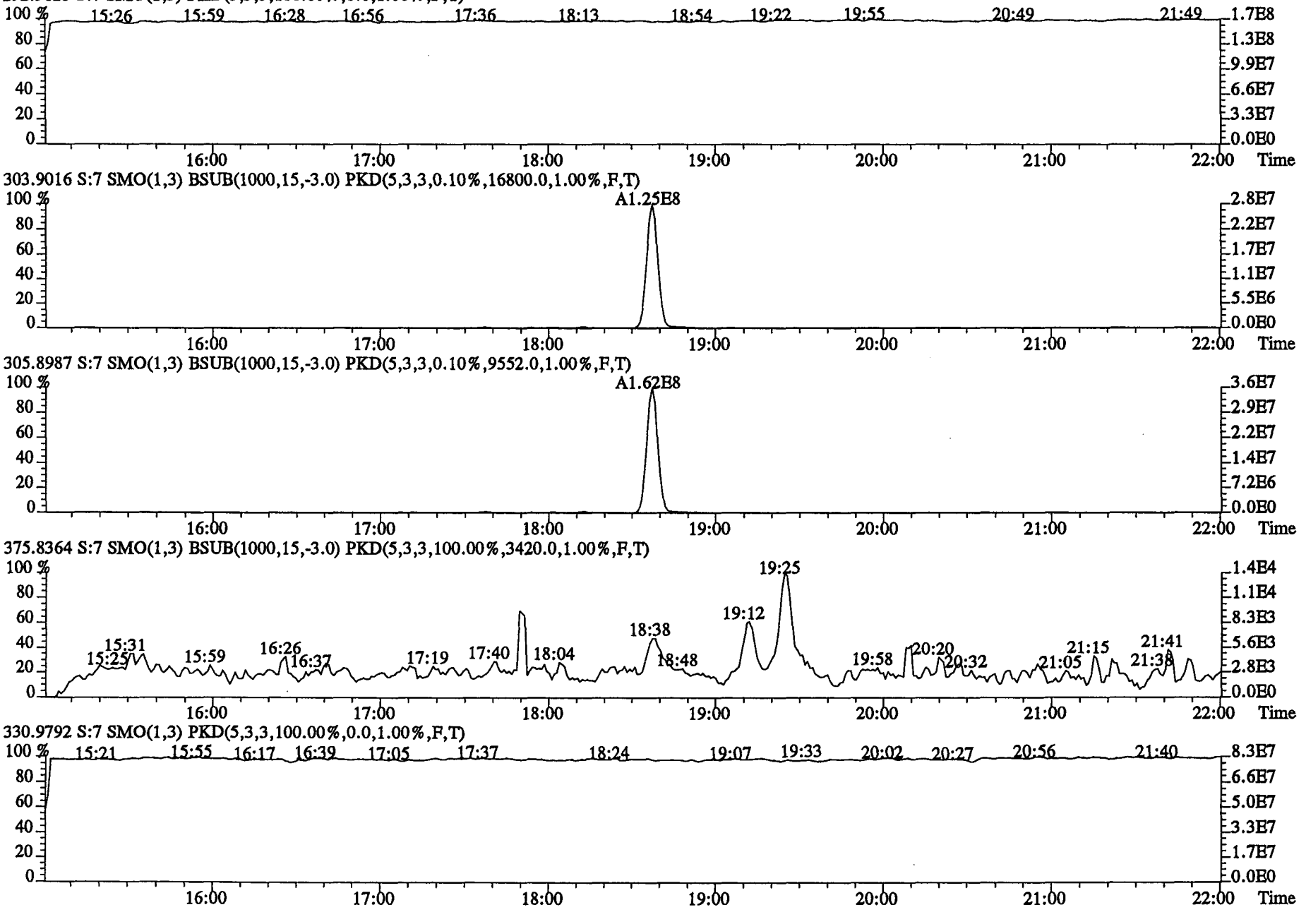
469.7779 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2692.0,1.00%,F,T)



471.7750 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3912.0,1.00%,F,T)

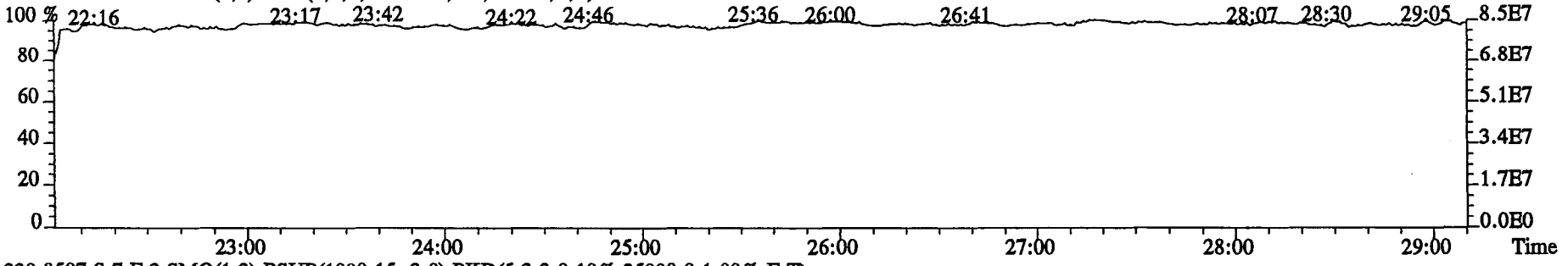


File:14DB10A9D5 #1-464 Acq:14-DEC-2010 19:18:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST1214D :CS-5 10DXN507 Exp:DIOXINRES

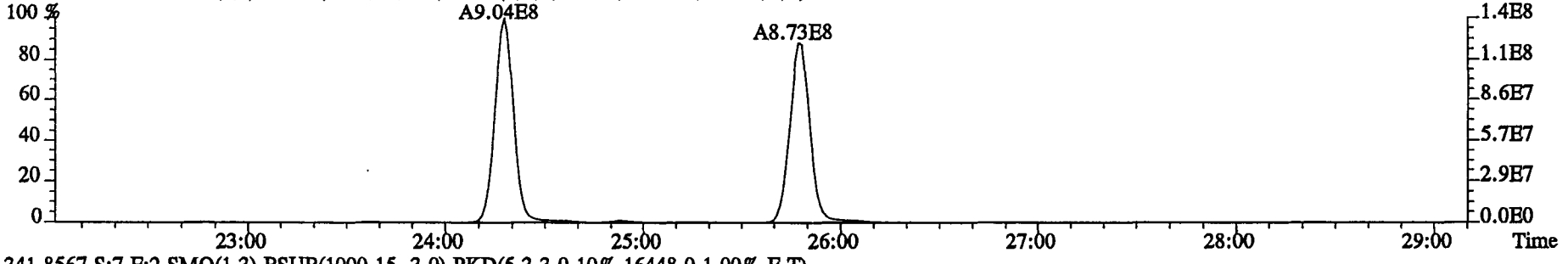


File:14DE10A9D5 #1-459 Acq:14-DEC-2010 19:18:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST1214D :CS-5 10DXN507 Exp:DIOXINRES

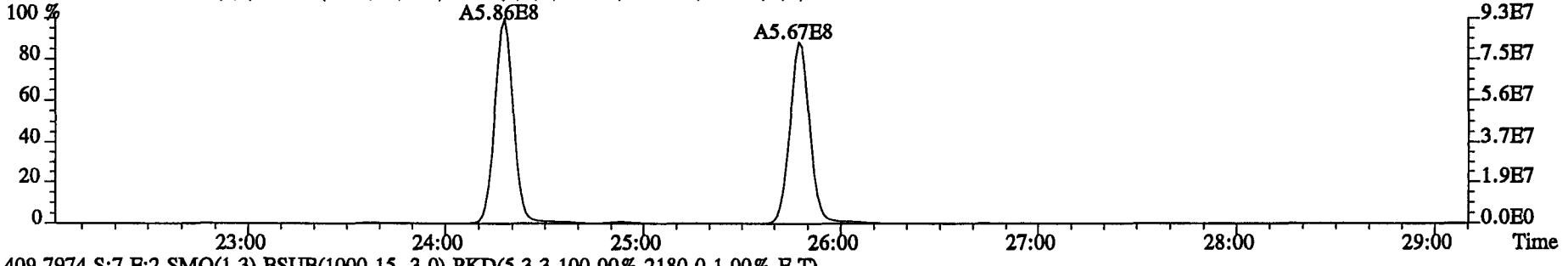
342.9792 S:7 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



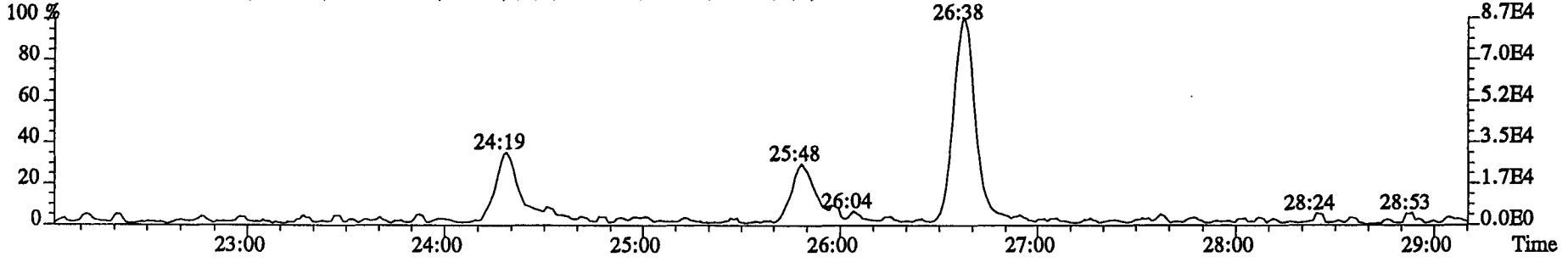
339.8597 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,25008.0,1.00%,F,T)



341.8567 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16448.0,1.00%,F,T)

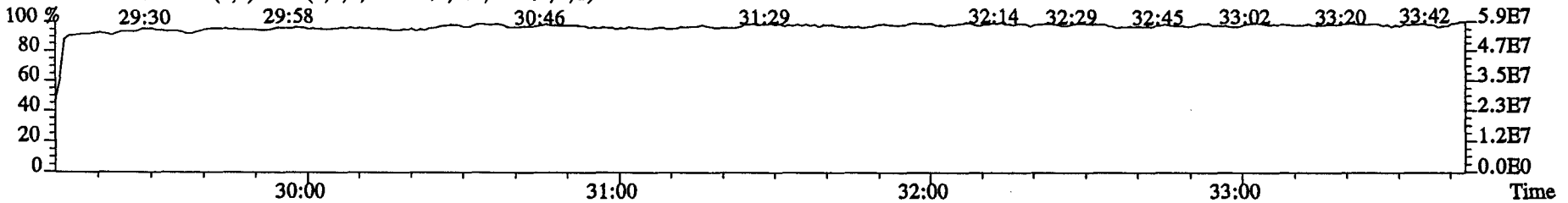


409.7974 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2180.0,1.00%,F,T)

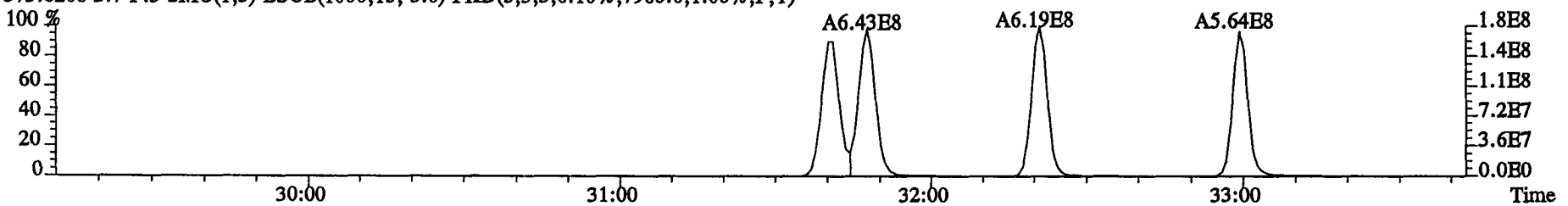


File:14DE10A9D5 #1-326 Acq:14-DEC-2010 19:18:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST1214D :CS-5 10DXN507 Exp:DIOXINRES

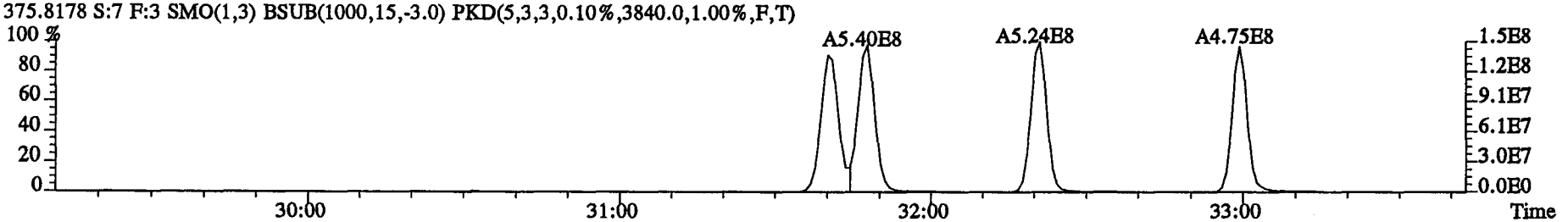
392.9760 S:7 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



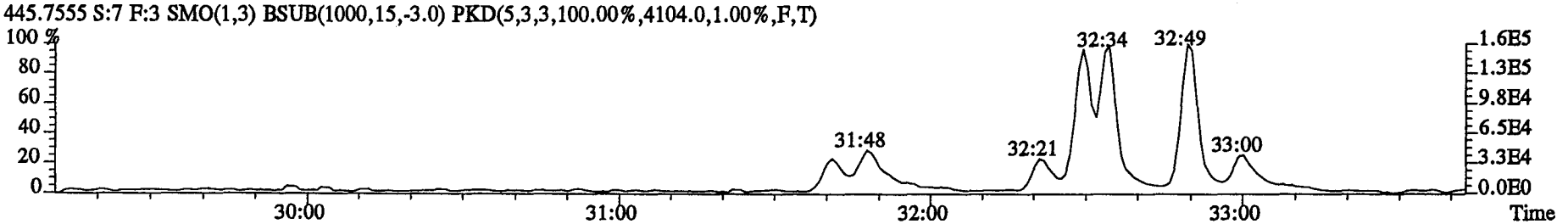
373.8208 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7960.0,1.00%,F,T)



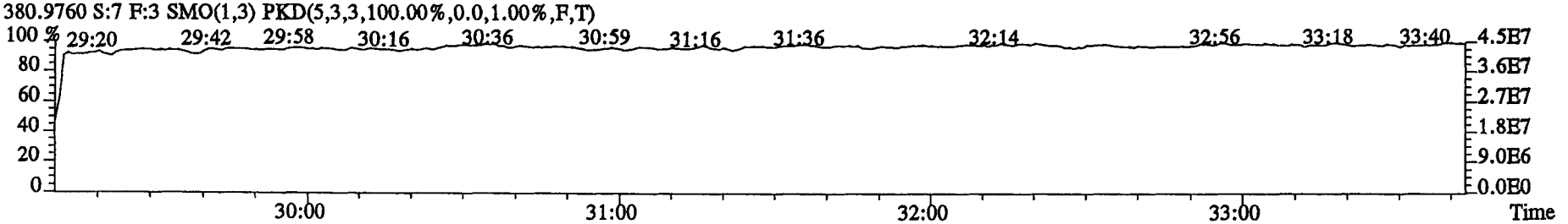
375.8178 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3840.0,1.00%,F,T)



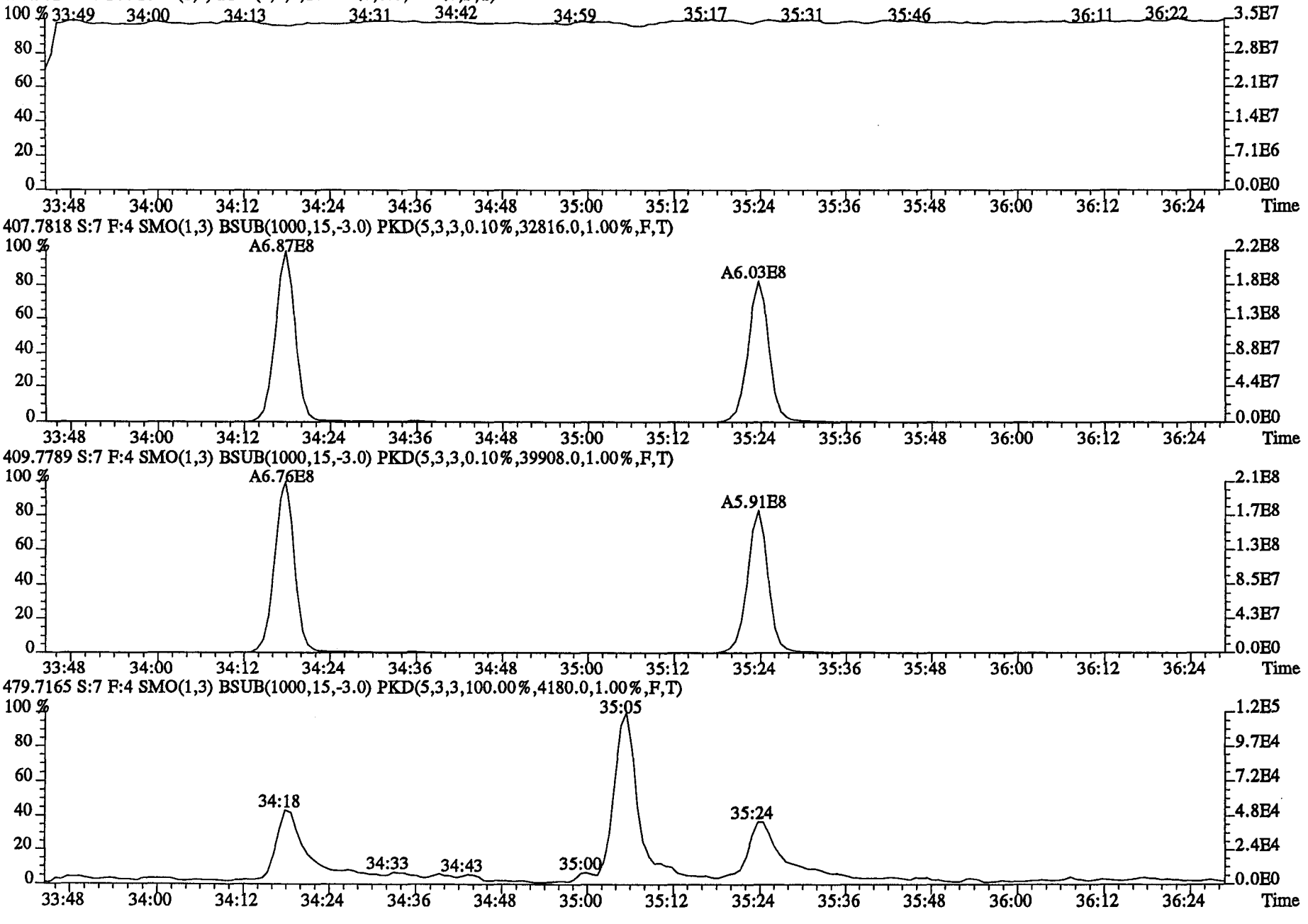
445.7555 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,4104.0,1.00%,F,T)



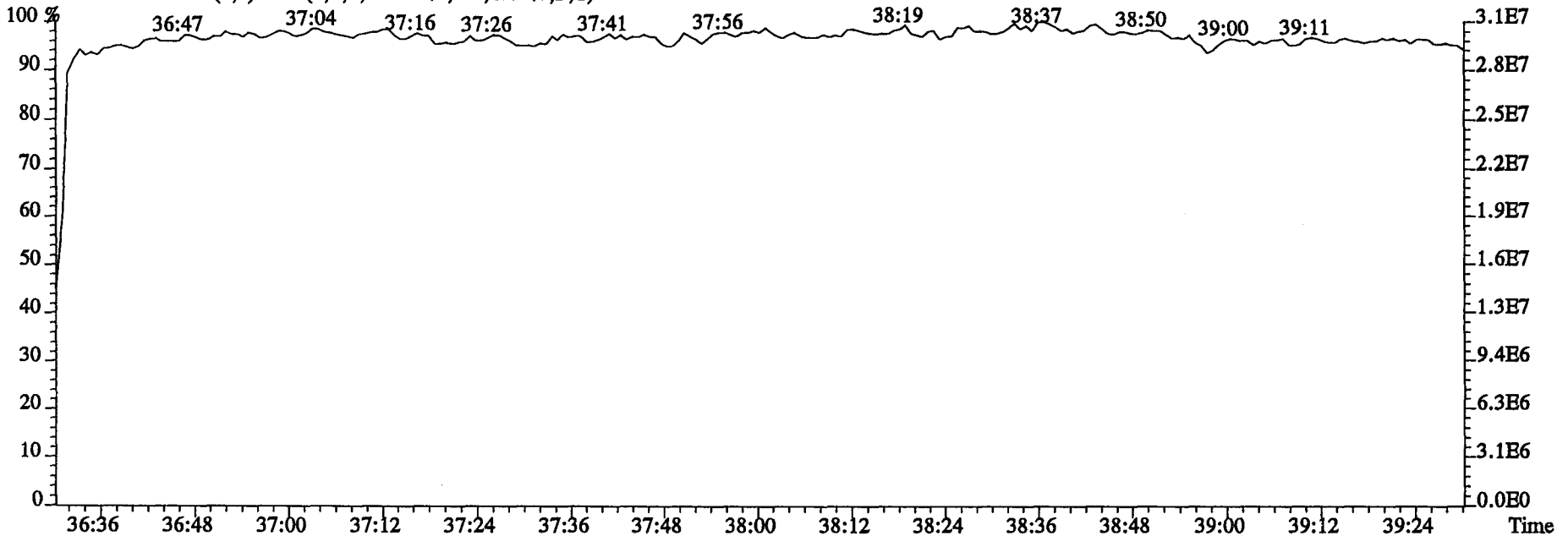
380.9760 S:7 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



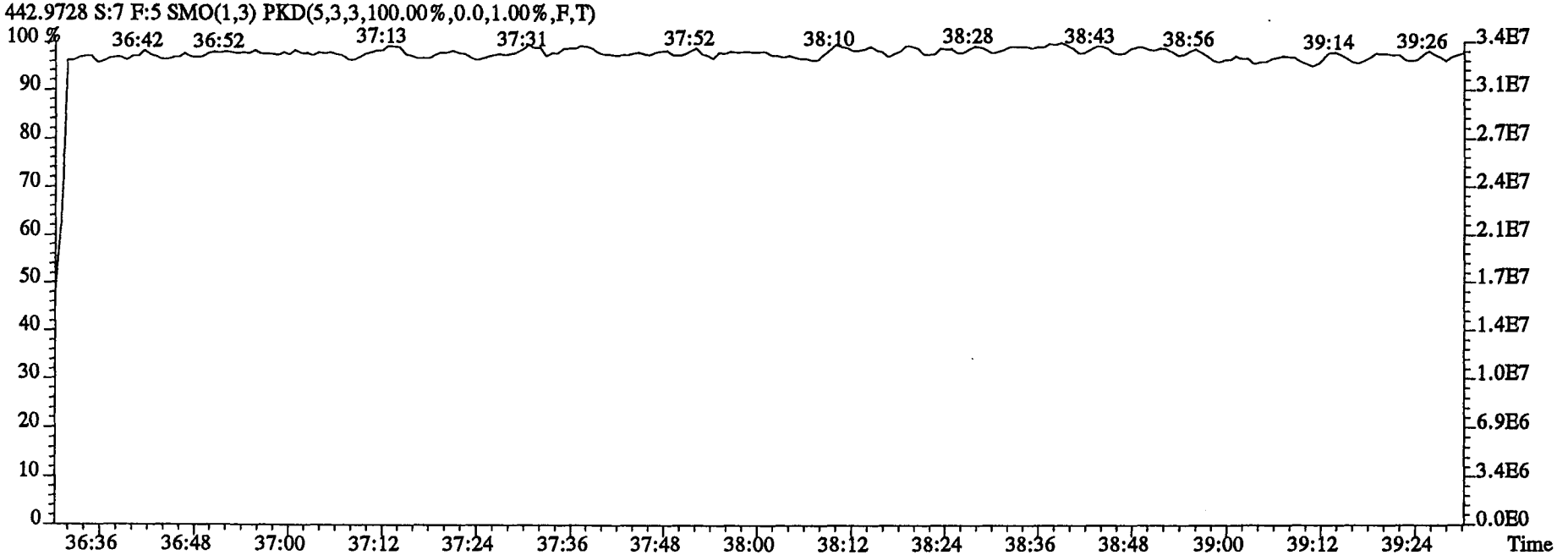
File:14DE10A9D5 #1-208 Acq:14-DEC-2010 19:18:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST1214D :CS-5 10DXN507 Exp:DIOXINRES



File:14DE10A9D5 #1-243 Acq:14-DEC-2010 19:18:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST1214D :CS-5 10DXN507 Exp:DIOXINRES
454.9728 S:7 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

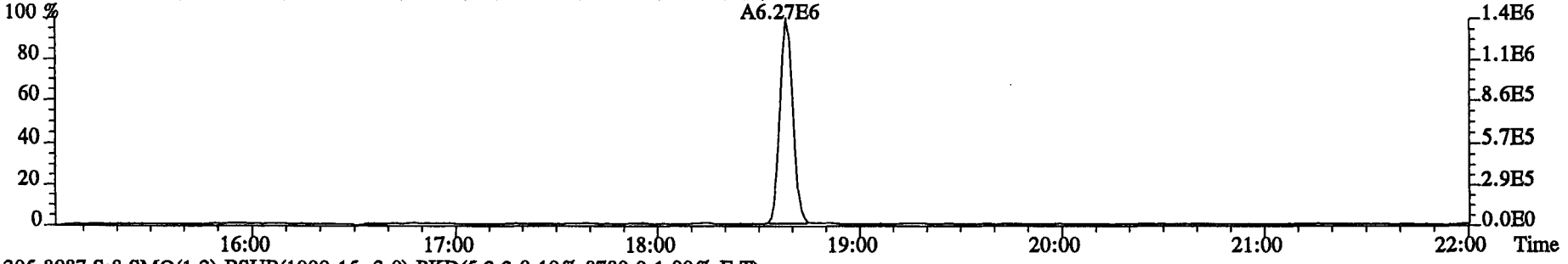


442.9728 S:7 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

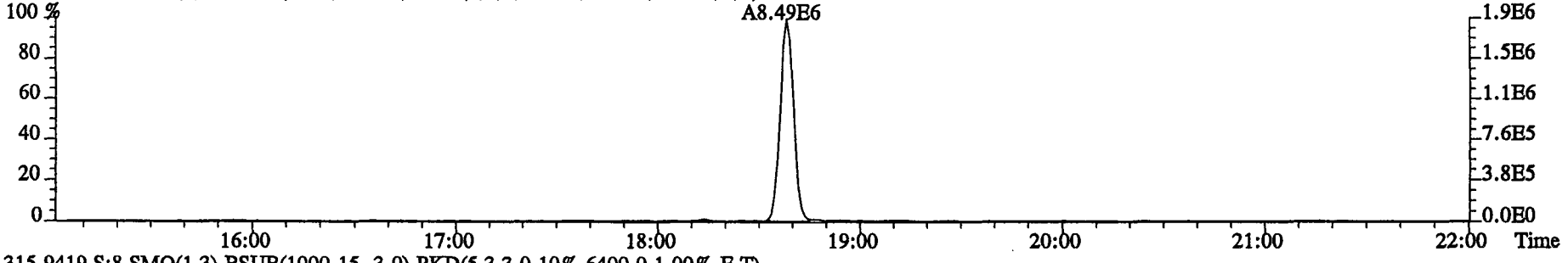


File:14DE10A9D5 #1-463 Acq:14-DEC-2010 20:05:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST1214E :2nd Source 10DXN340 Exp:DIOXINRES

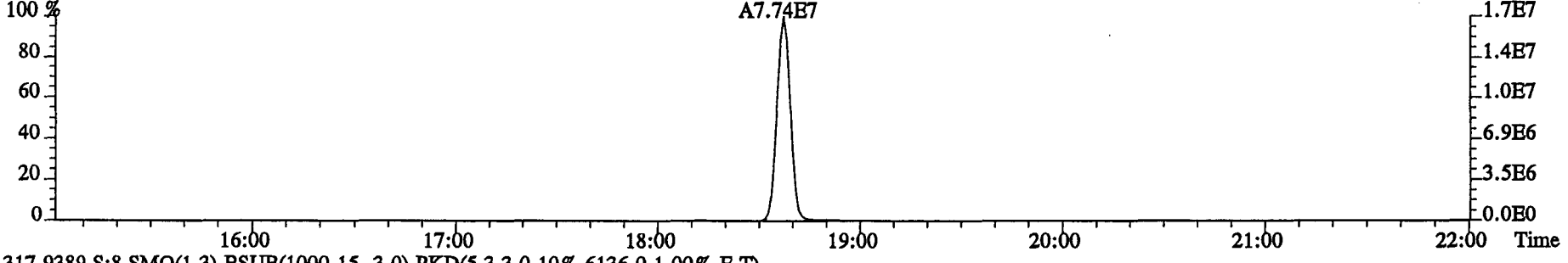
303.9016 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16196.0,1.00%,F,T)



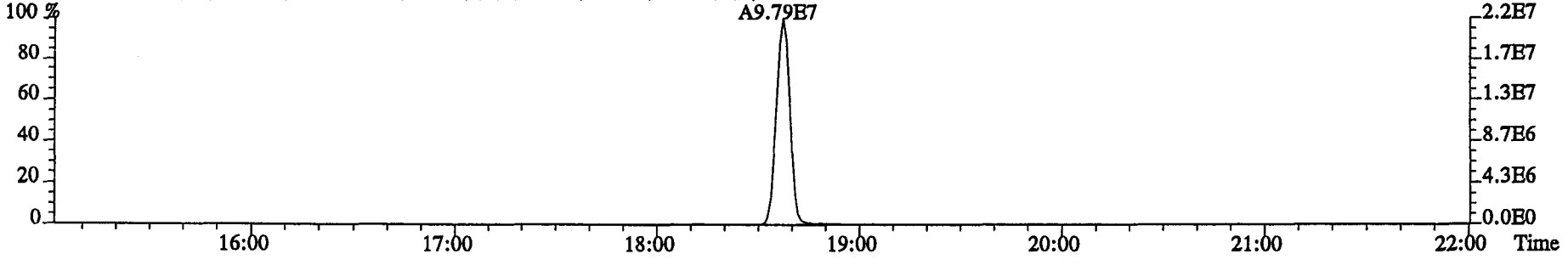
305.8987 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8780.0,1.00%,F,T)



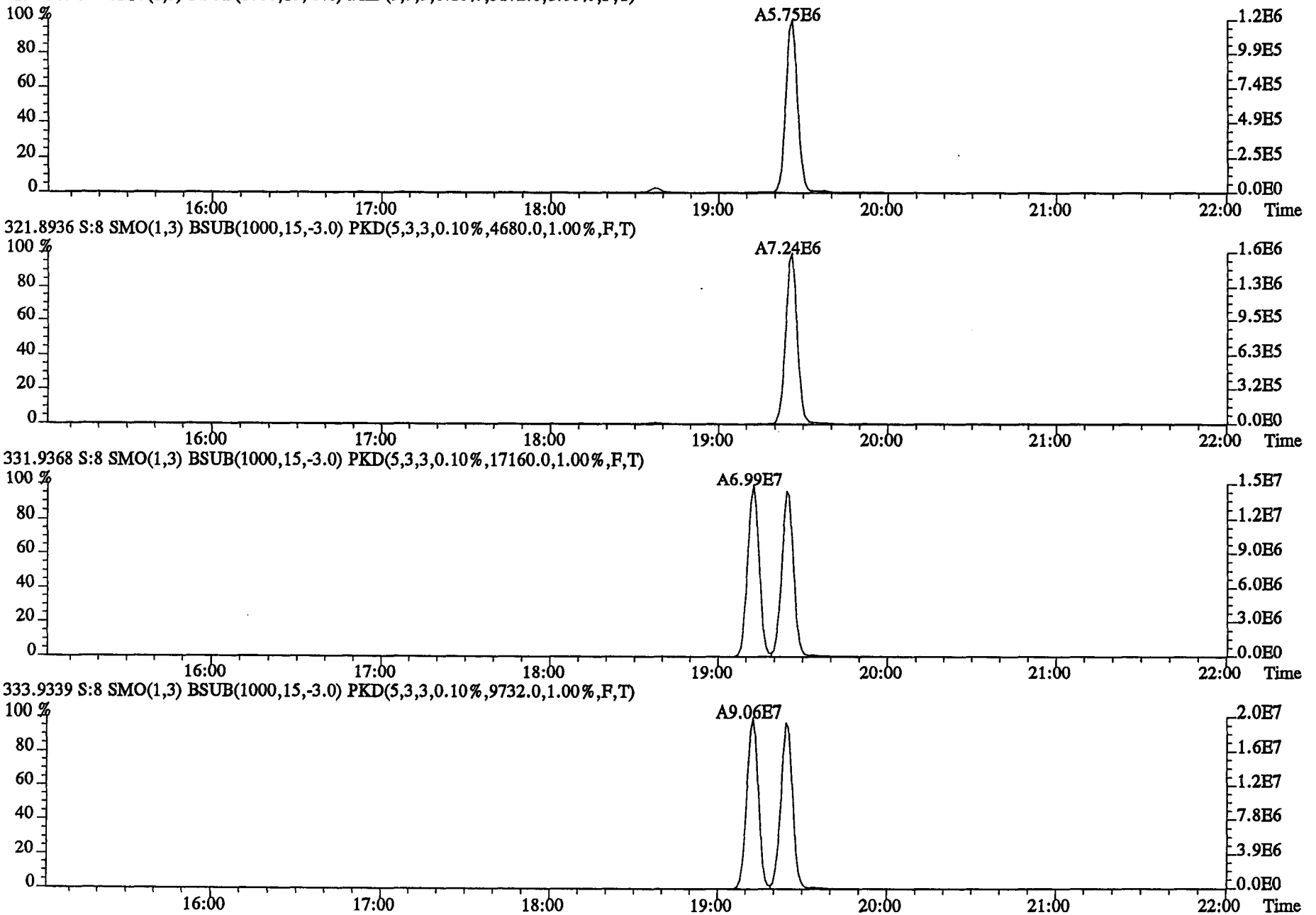
315.9419 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6400.0,1.00%,F,T)



317.9389 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6136.0,1.00%,F,T)

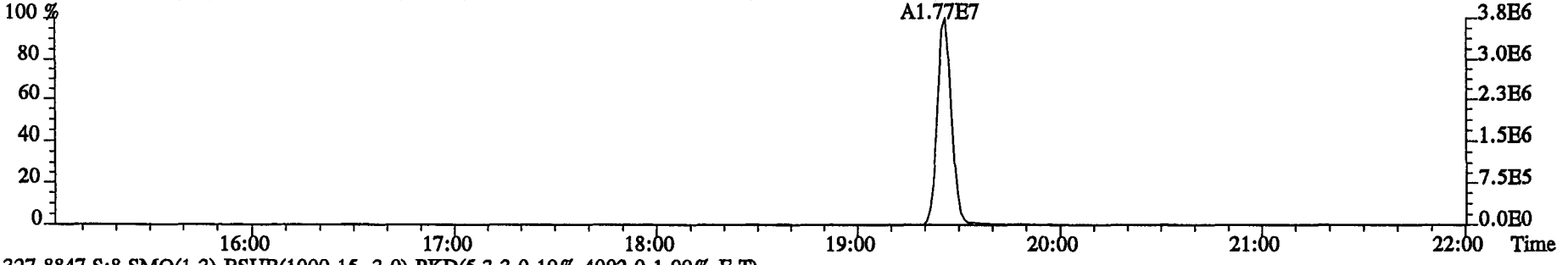


File:14DE10A9D5 #1-463 Acq:14-DEC-2010 20:05:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST1214E :2nd Source 10DXN340 Exp:DIOXINRES

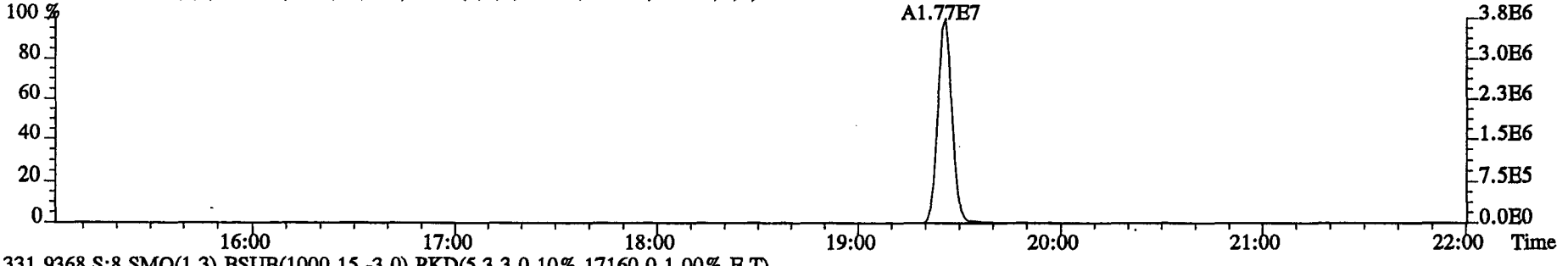


File:14DE10A9D5 #1-463 Acq:14-DEC-2010 20:05:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST1214E :2nd Source 10DXN340 Exp:DIOXINRES

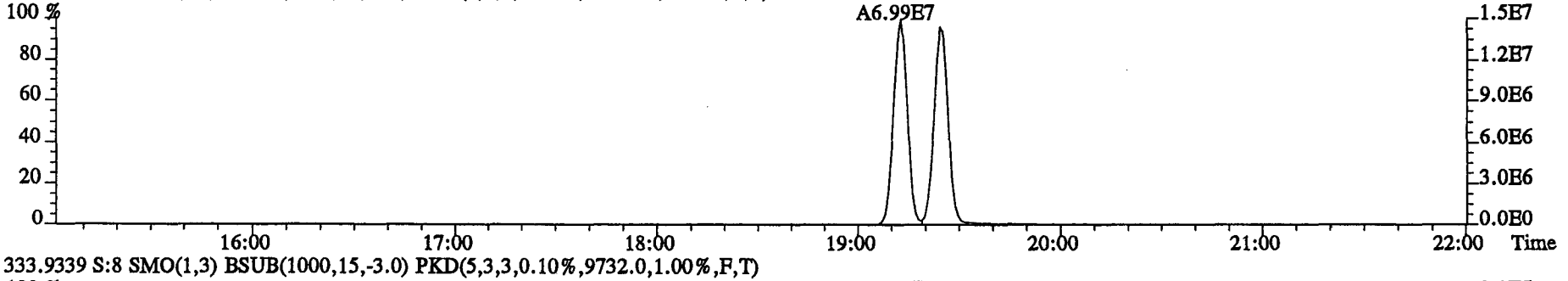
327.8847 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4092.0,1.00%,F,T)



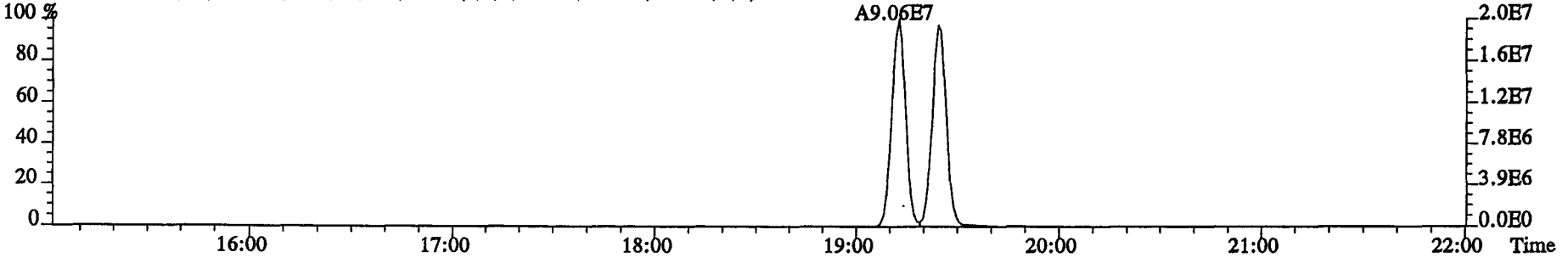
327.8847 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4092.0,1.00%,F,T)



331.9368 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17160.0,1.00%,F,T)

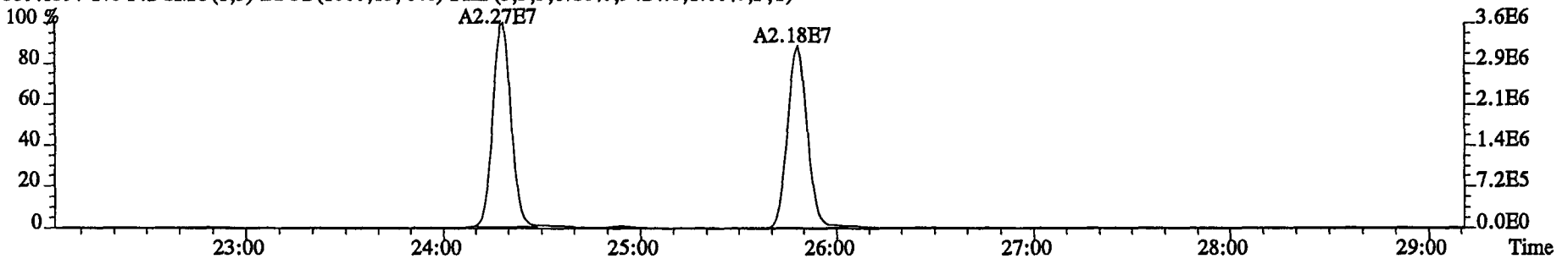


333.9339 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9732.0,1.00%,F,T)

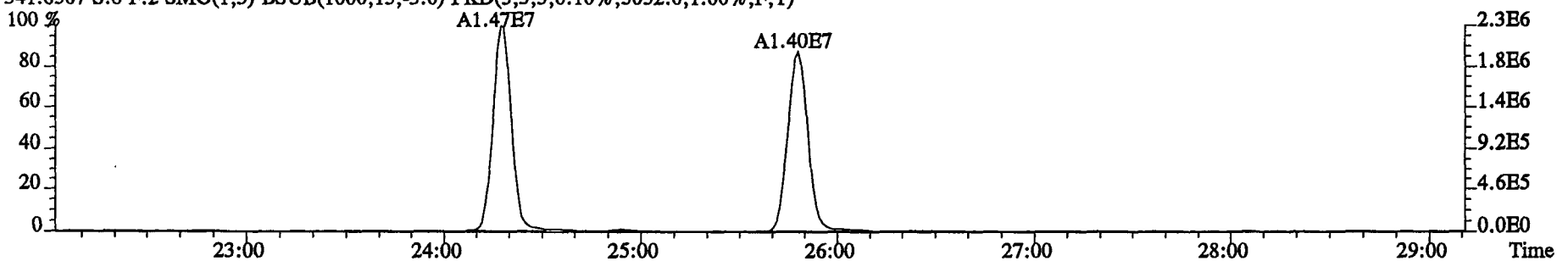


File:14DE10A9D5 #1-460 Acq:14-DEC-2010 20:05:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST1214E :2nd Source 10DXN340 Exp:DIOXINRES

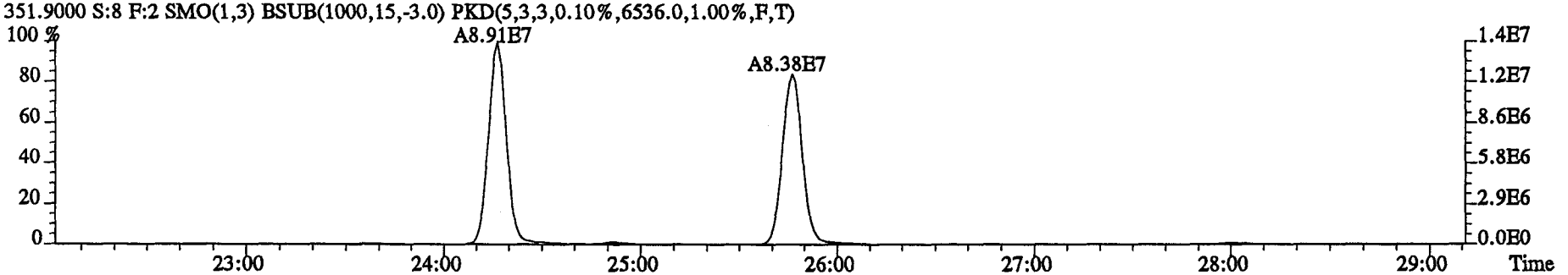
339.8597 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9424.0,1.00%,F,T)



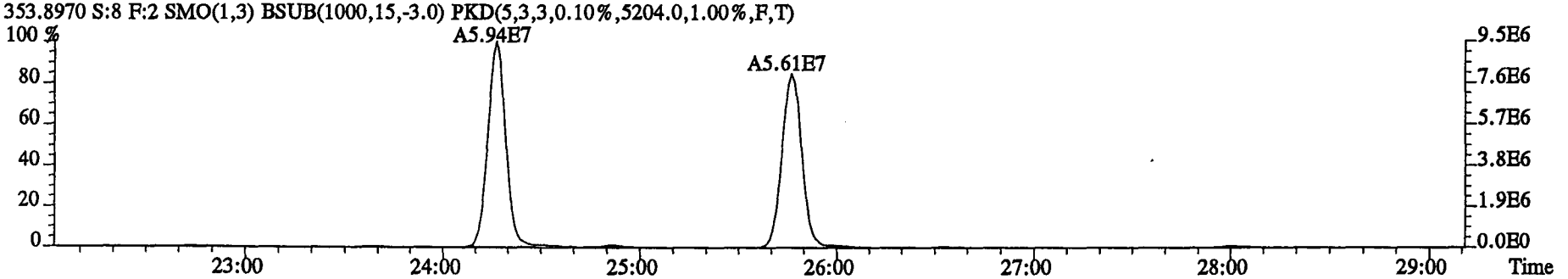
341.8567 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5052.0,1.00%,F,T)



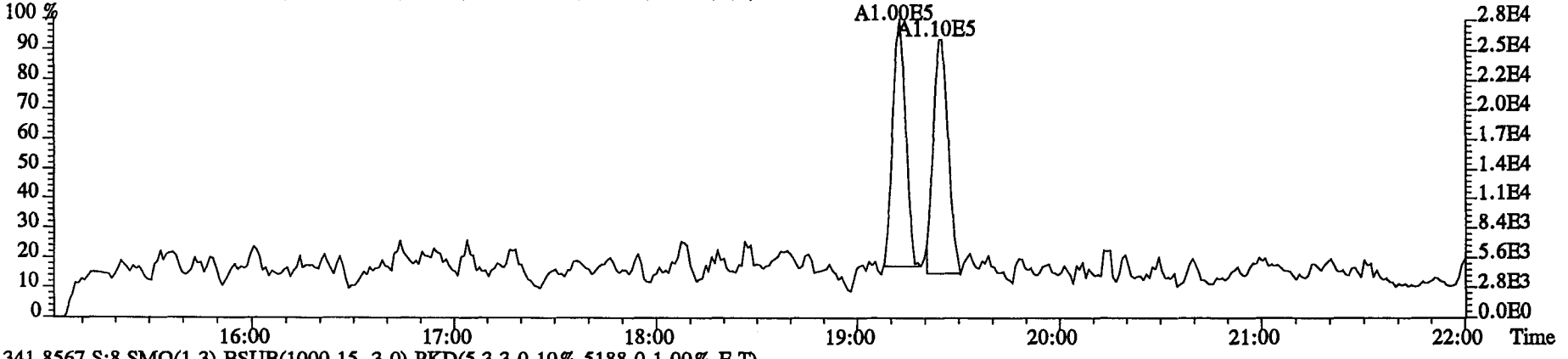
351.9000 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6536.0,1.00%,F,T)



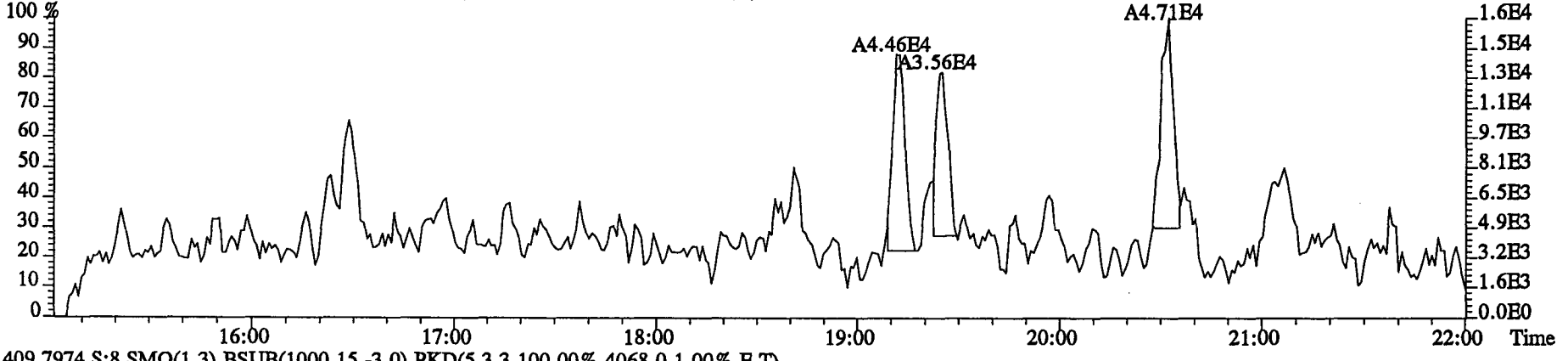
353.8970 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5204.0,1.00%,F,T)



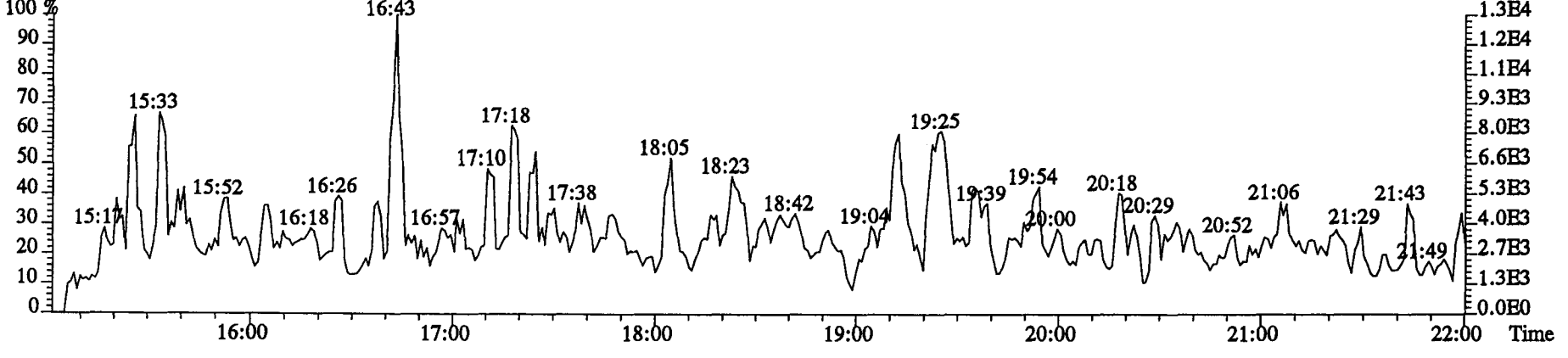
File:14DE10A9D5 #1-463 Acq:14-DEC-2010 20:05:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST1214E :2nd Source 10DXN340 Exp:DIOXINRES
339.8597 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5952.0,1.00%,F,T)



341.8567 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5188.0,1.00%,F,T)

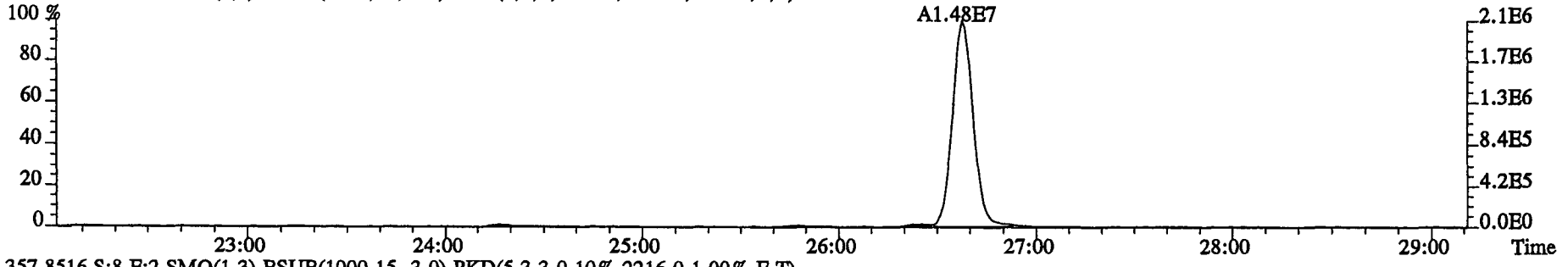


409.7974 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,4068.0,1.00%,F,T)

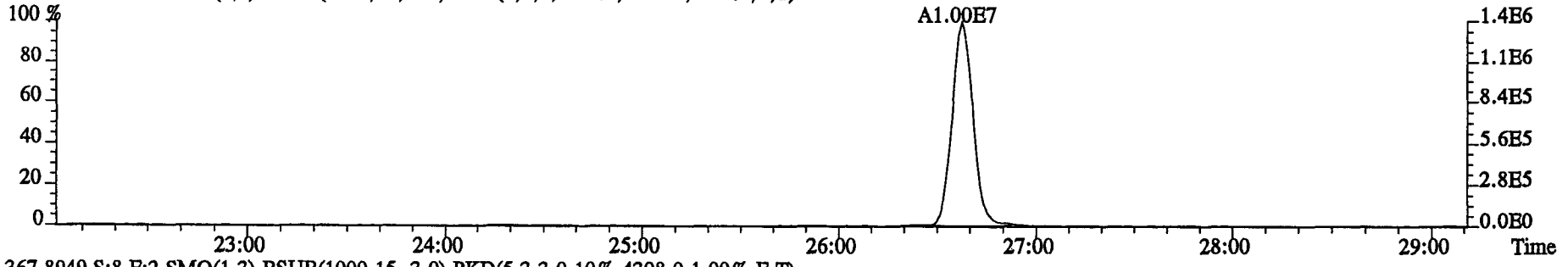


File:14DE10A9D5 #1-460 Acq:14-DEC-2010 20:05:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST1214E :2nd Source 10DXN340 Exp:DIOXINRES

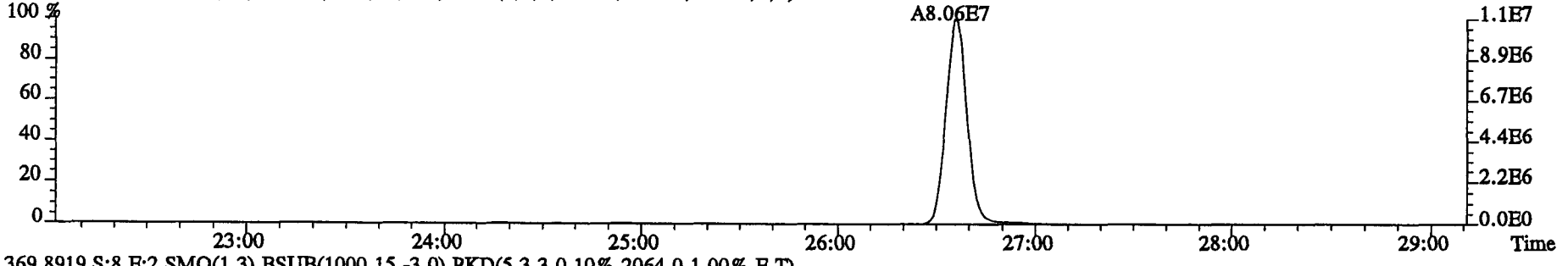
355.8546 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3688.0,1.00%,F,T)



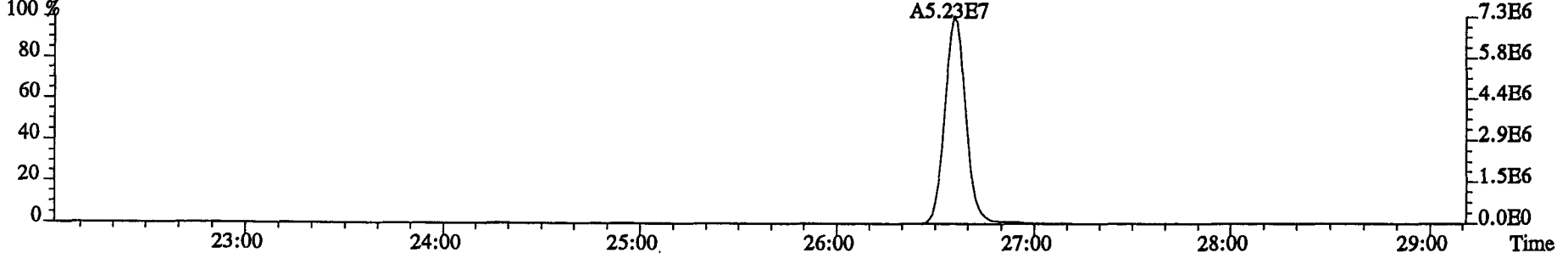
357.8516 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2216.0,1.00%,F,T)



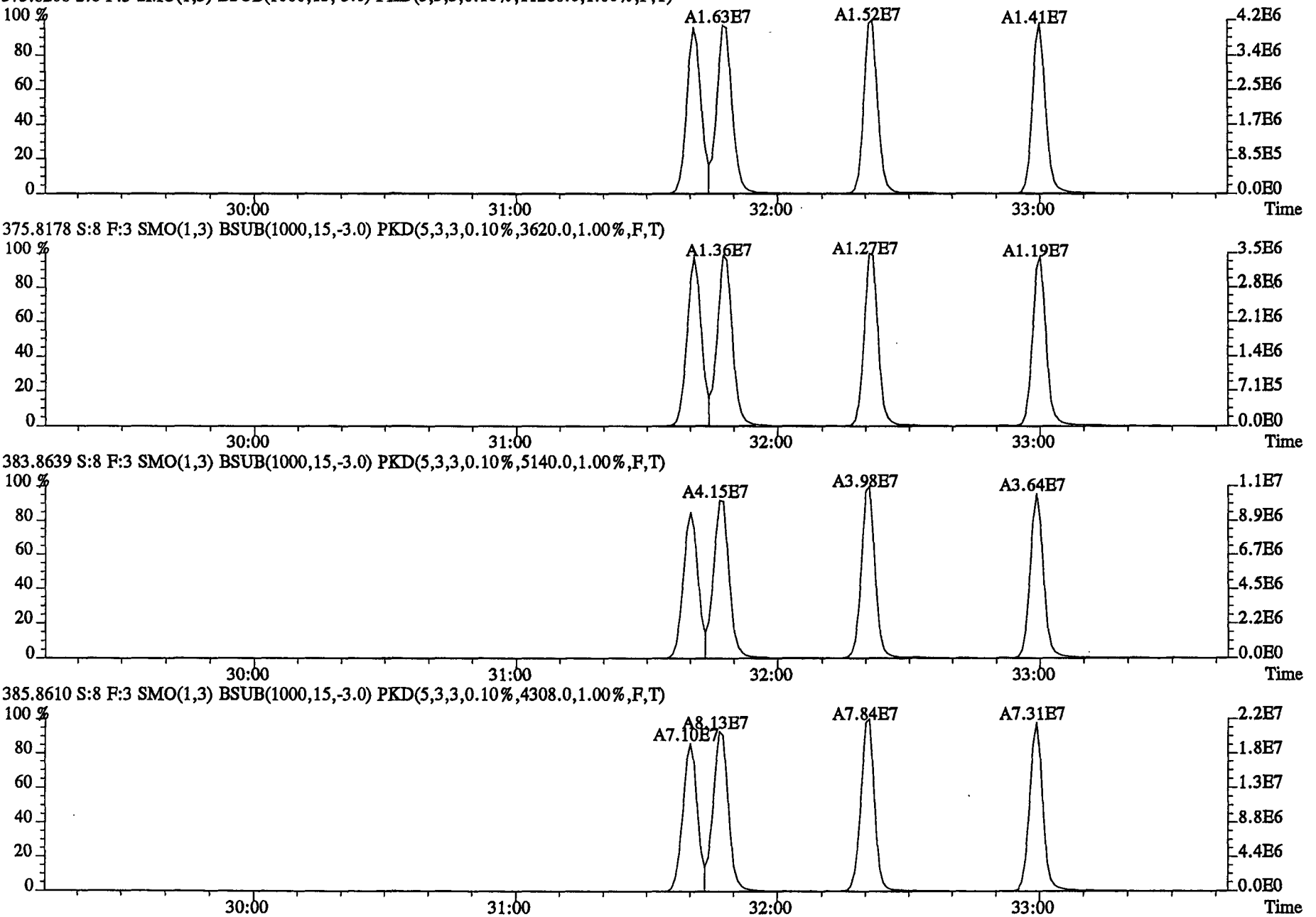
367.8949 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4308.0,1.00%,F,T)



369.8919 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2064.0,1.00%,F,T)

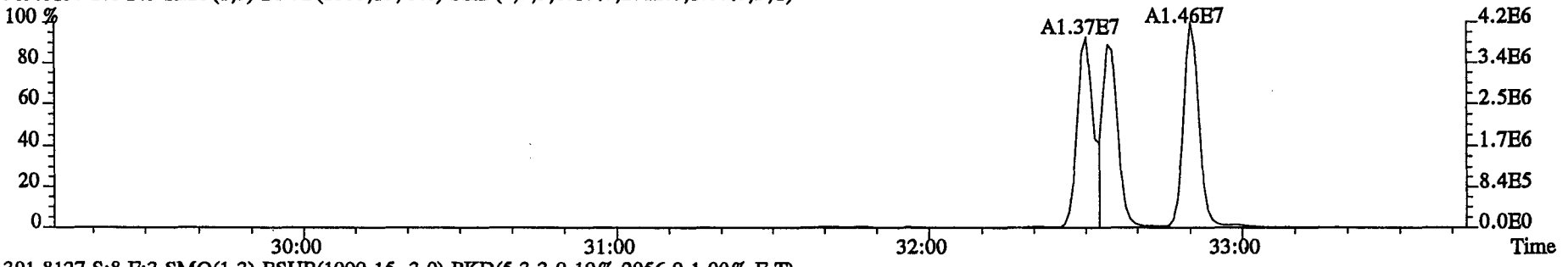


File:14DE10A9D5 #1-325 Acq:14-DEC-2010 20:05:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST1214E :2nd Source 10DXN340 Exp:DIOXINRES

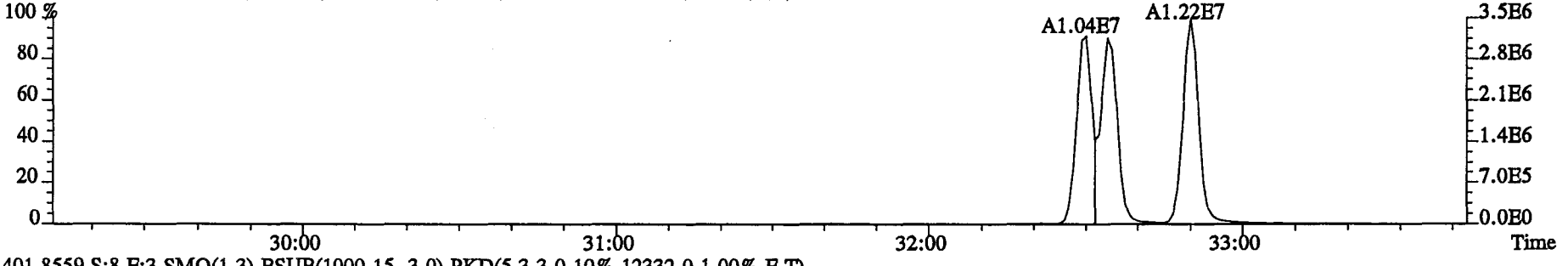


File:14DE10A9D5 #1-325 Acq:14-DEC-2010 20:05:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST1214E :2nd Source 10DXN340 Exp:DIOXINRES

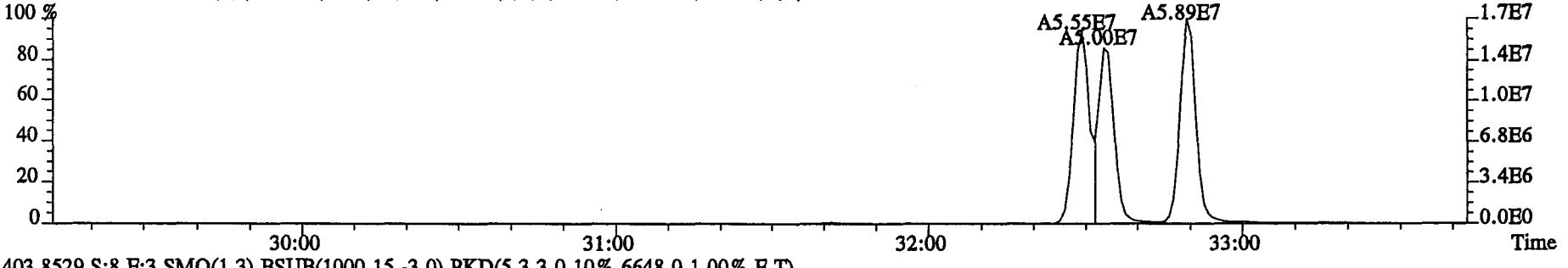
389.8157 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2712.0,1.00%,F,T)



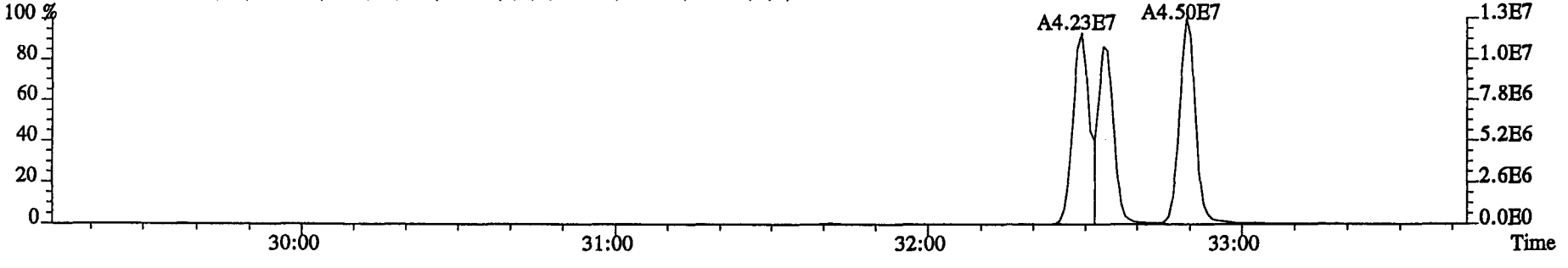
391.8127 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2056.0,1.00%,F,T)



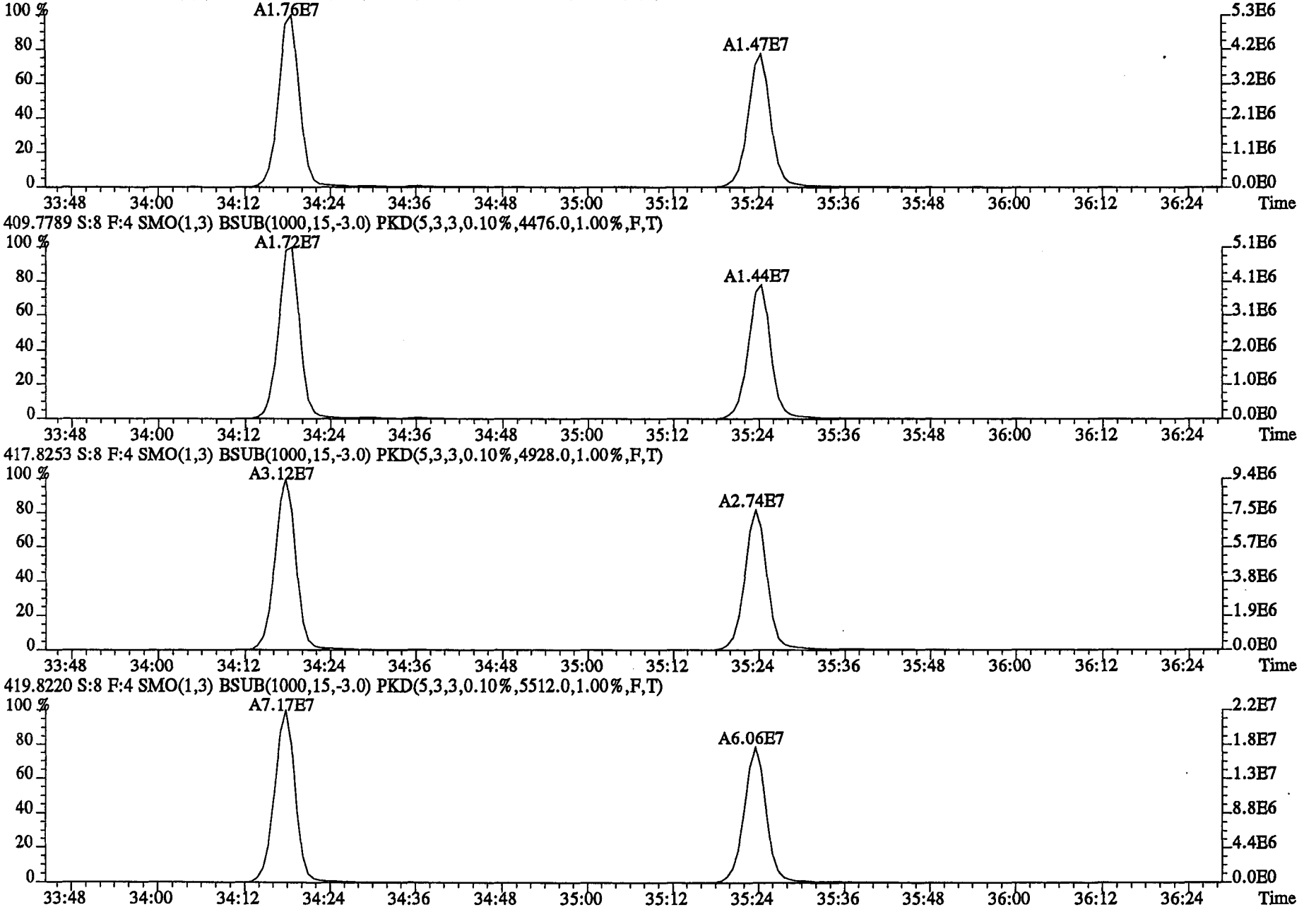
401.8559 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12332.0,1.00%,F,T)



403.8529 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6648.0,1.00%,F,T)

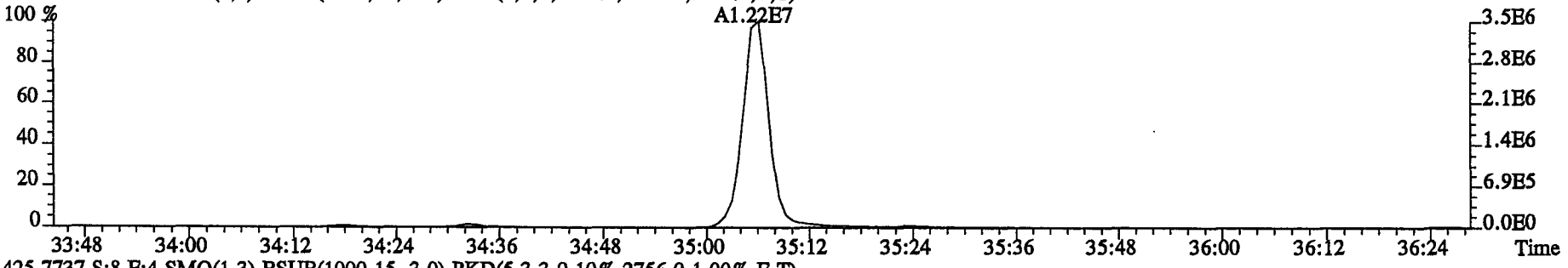


File:14DE10A9D5 #1-208 Acq:14-DEC-2010 20:05:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST1214E :2nd Source 10DXN340 Exp:DIOXINRES

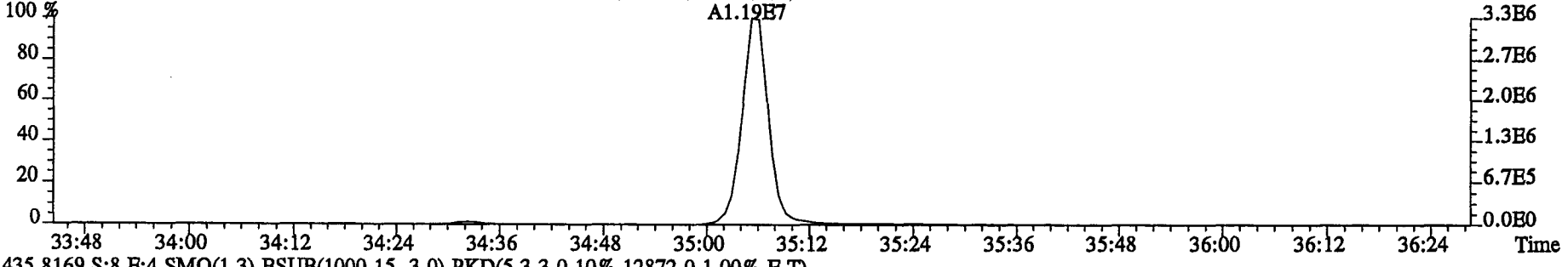


File:14DE10A9D5 #1-208 Acq:14-DEC-2010 20:05:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST1214E :2nd Source 10DXN340 Exp:DIOXINRES

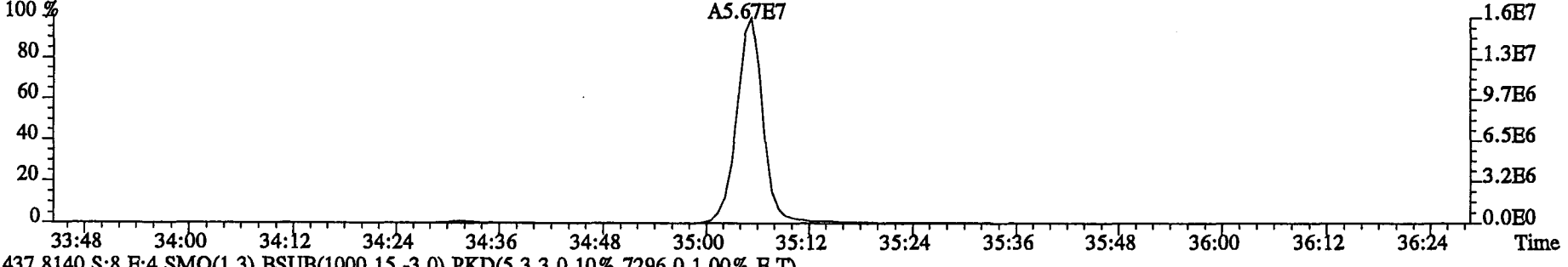
423.7766 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2980.0,1.00%,F,T)



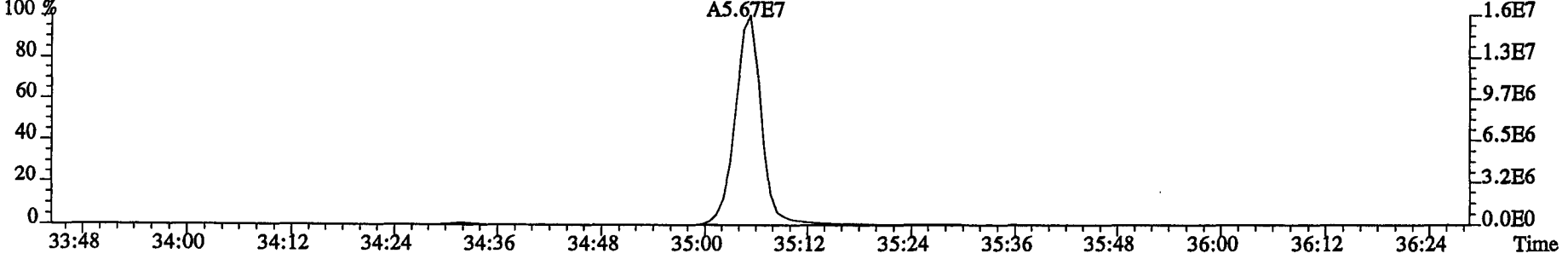
425.7737 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2756.0,1.00%,F,T)



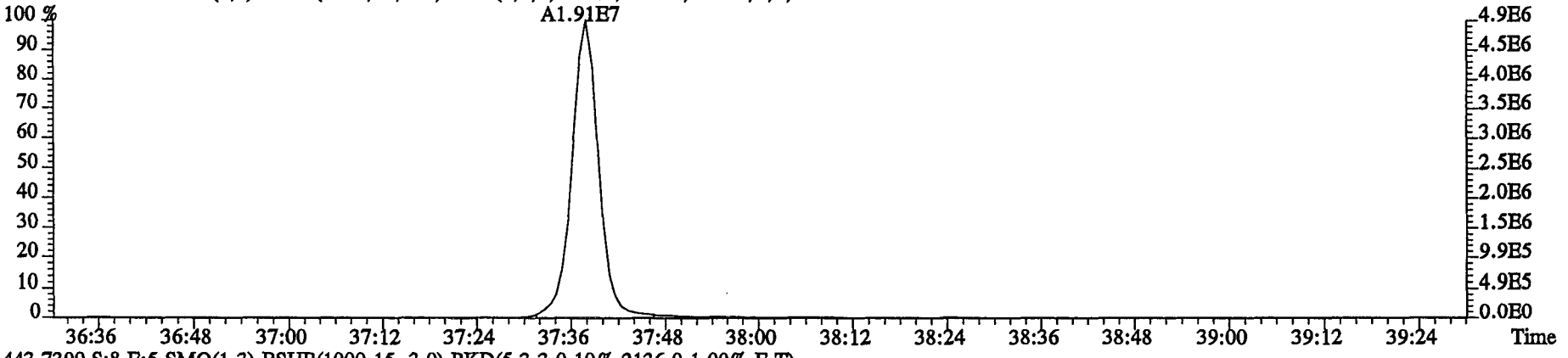
435.8169 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12872.0,1.00%,F,T)



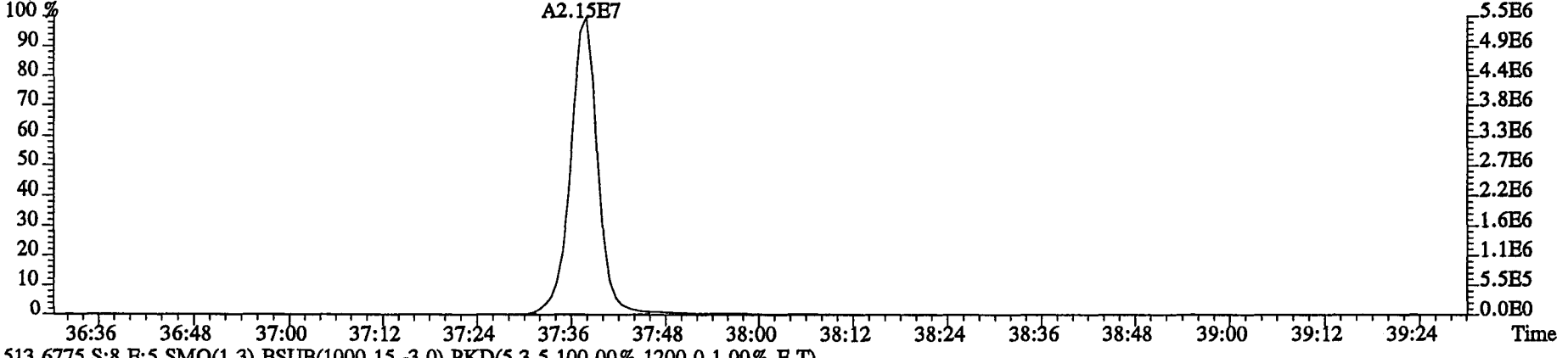
437.8140 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7296.0,1.00%,F,T)



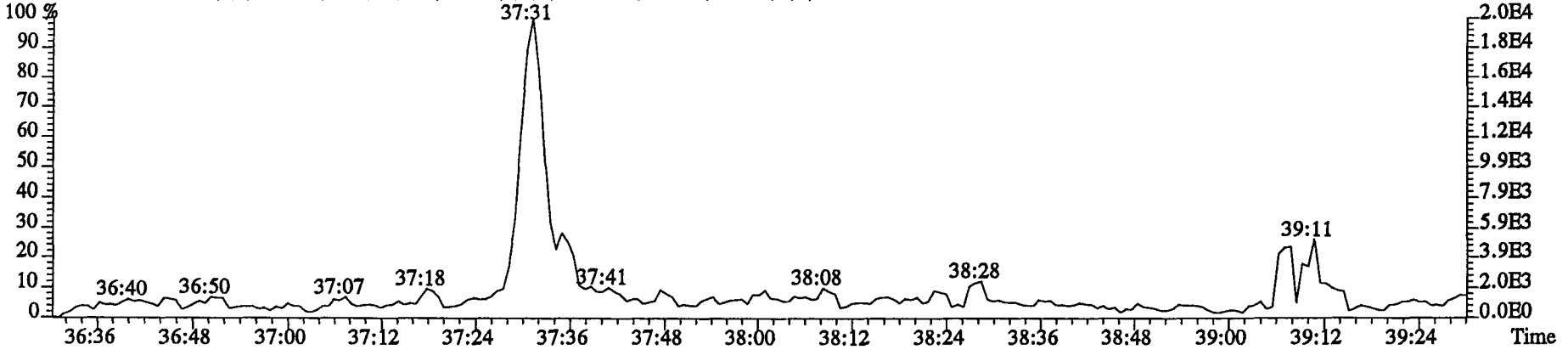
File:14DE10A9D5 #1-243 Acq:14-DEC-2010 20:05:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST1214E :2nd Source 10DXN340 Exp:DIOXINRES
441.7428 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2112.0,1.00%,F,T)



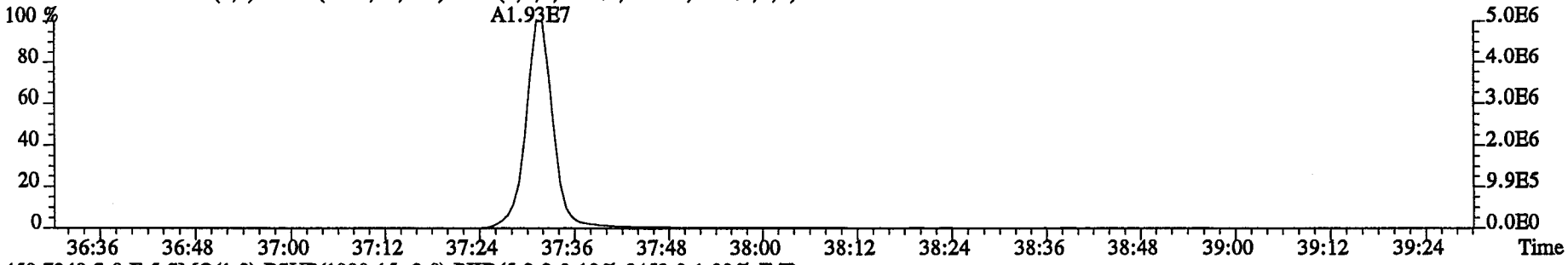
443.7399 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2136.0,1.00%,F,T)



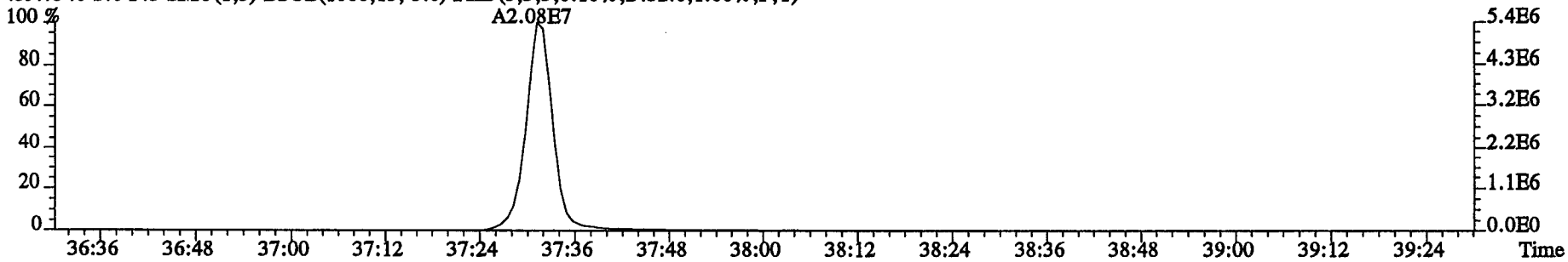
513.6775 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,1200.0,1.00%,F,T)



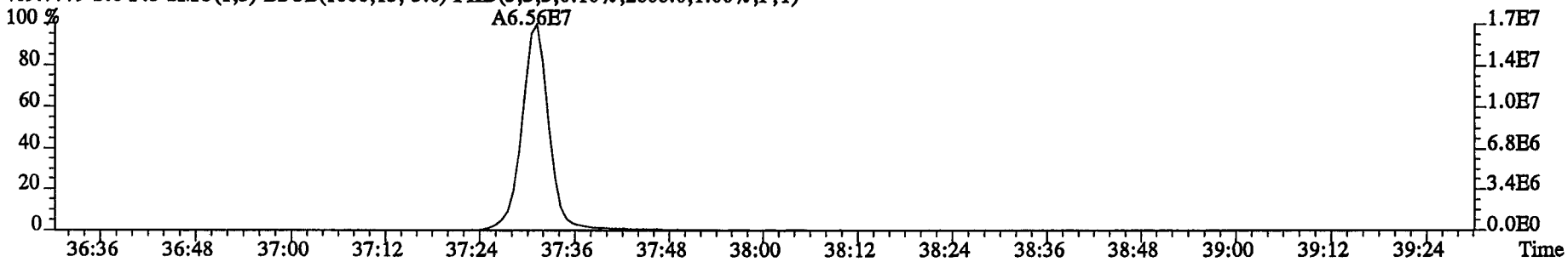
File:14DE10A9D5 #1-243 Acq:14-DEC-2010 20:05:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST1214E :2nd Source 10DXN340 Exp:DIOXINRES
457.7377 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5852.0,1.00%,F,T)



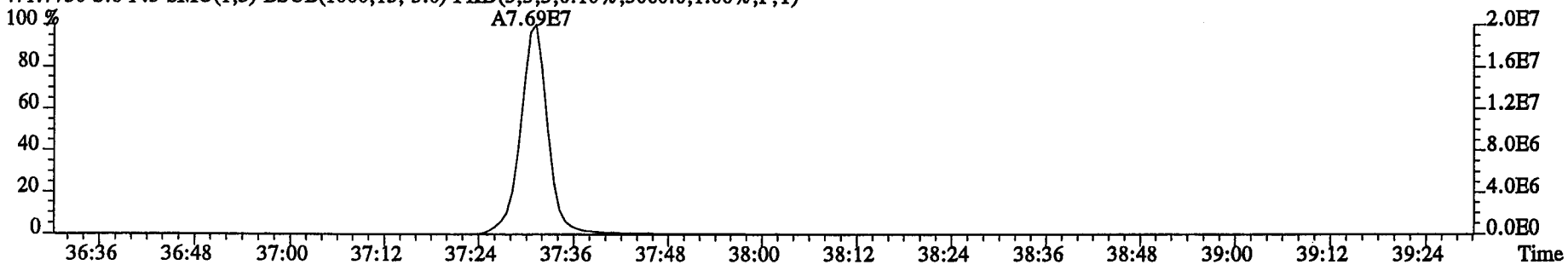
459.7348 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2452.0,1.00%,F,T)



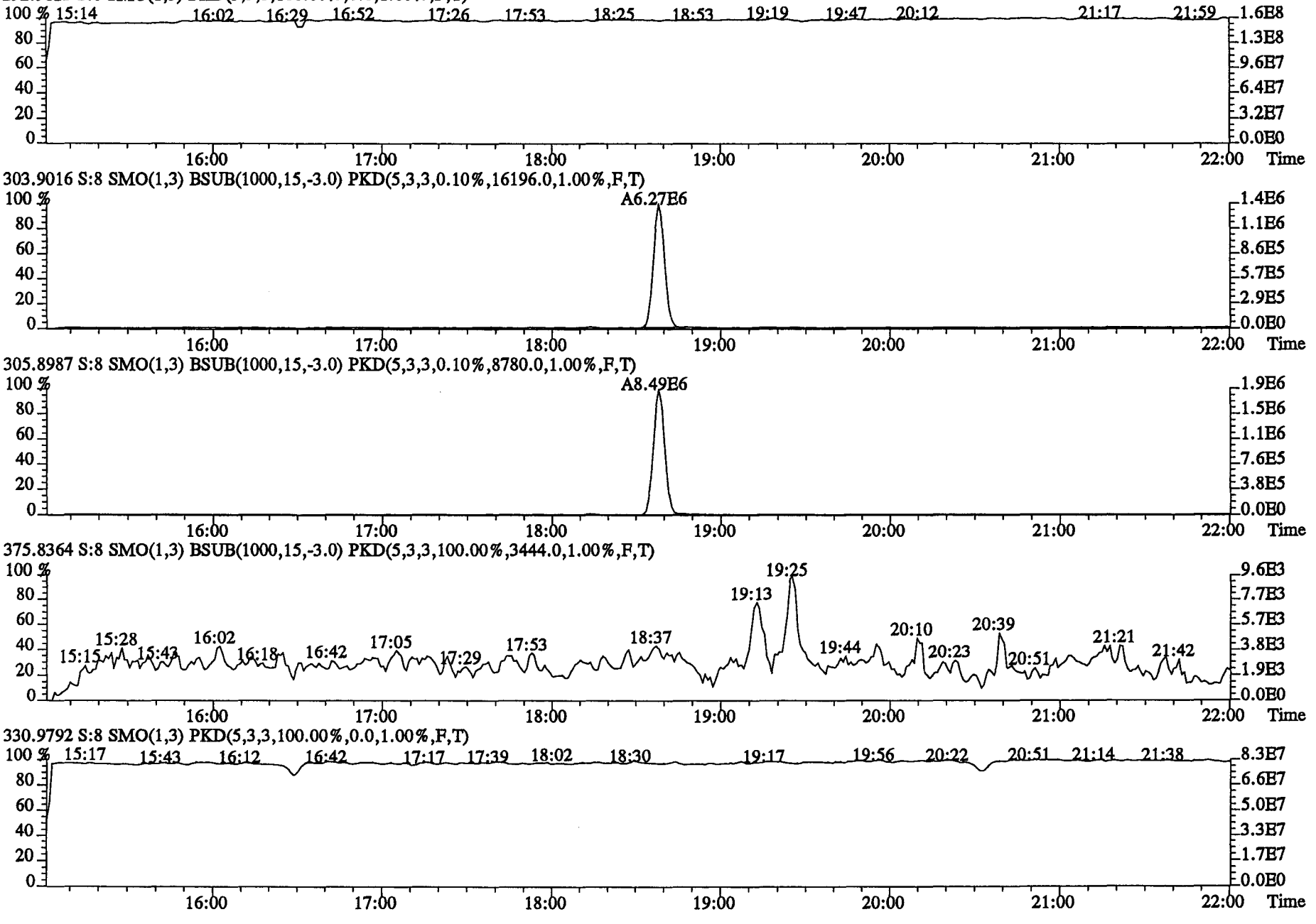
469.7779 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2808.0,1.00%,F,T)



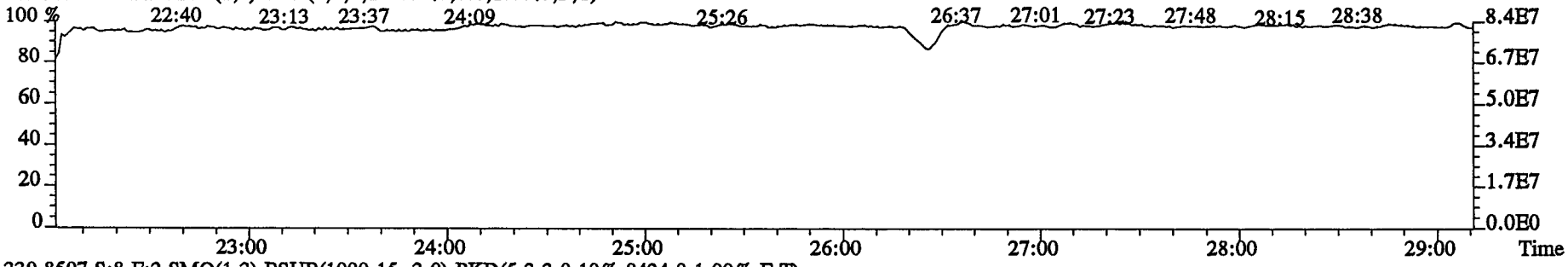
471.7750 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3060.0,1.00%,F,T)



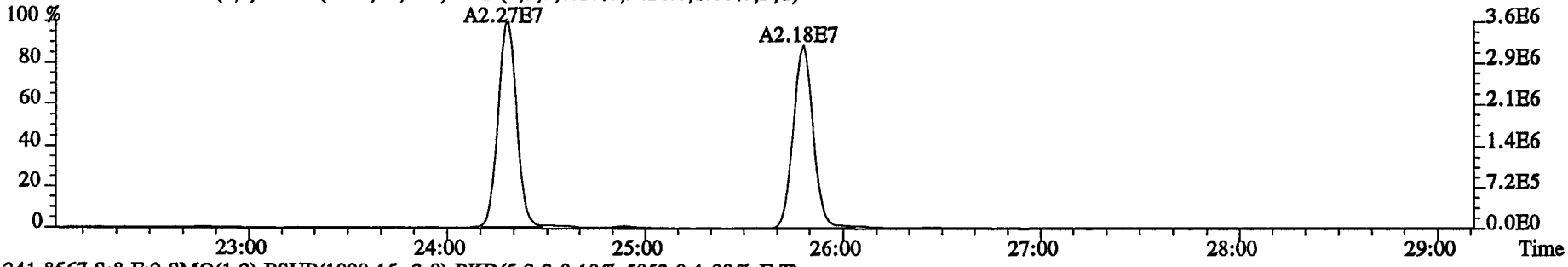
File:14DE10A9D5 #1-463 Acq:14-DEC-2010 20:05:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST1214E :2nd Source 10DXN340 Exp:DIOXINRES



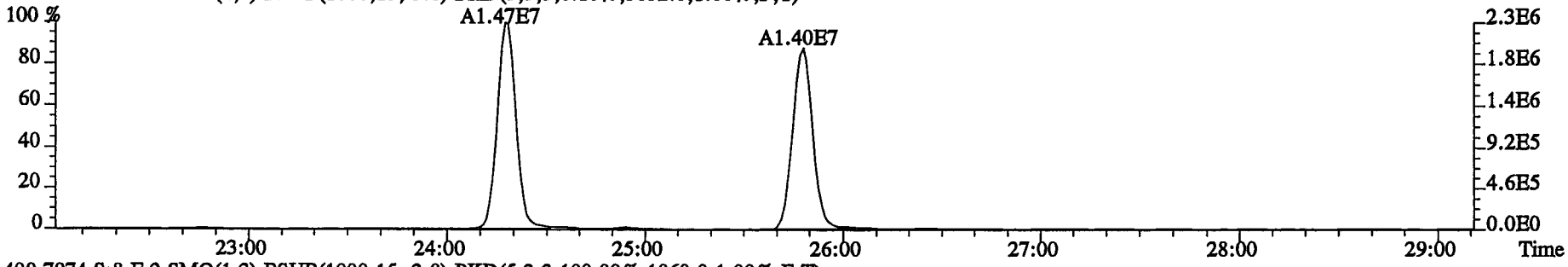
File:14DE10A9D5 #1-460 Acq:14-DEC-2010 20:05:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST1214E :2nd Source 10DXN340 Exp:DIOXINRES
342.9792 S:8 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



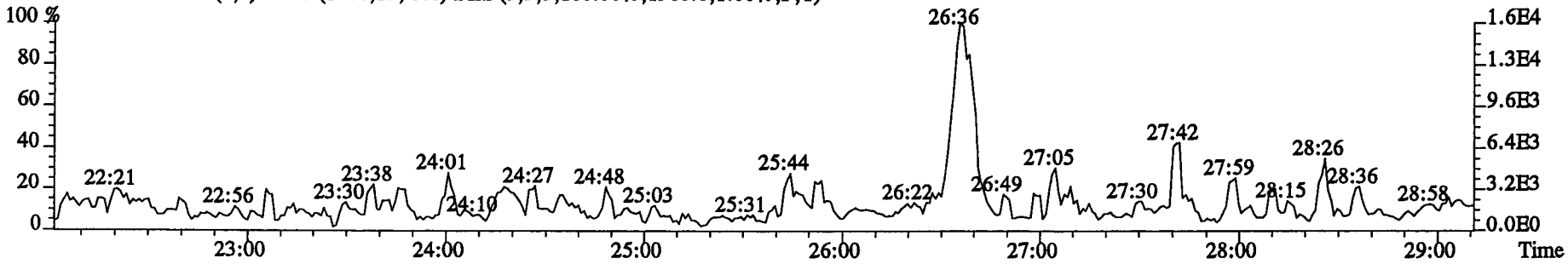
339.8597 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9424.0,1.00%,F,T)



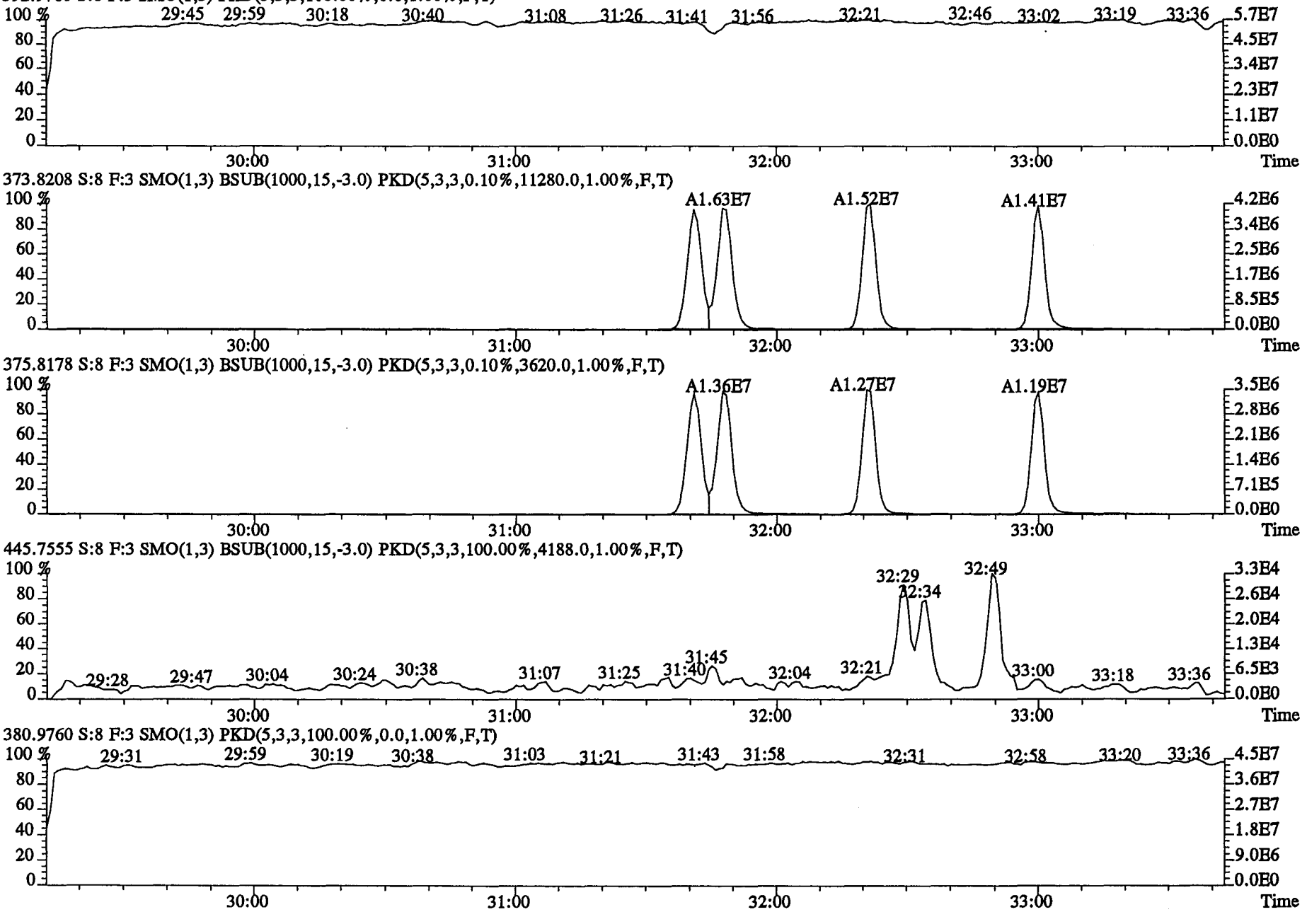
341.8567 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5052.0,1.00%,F,T)



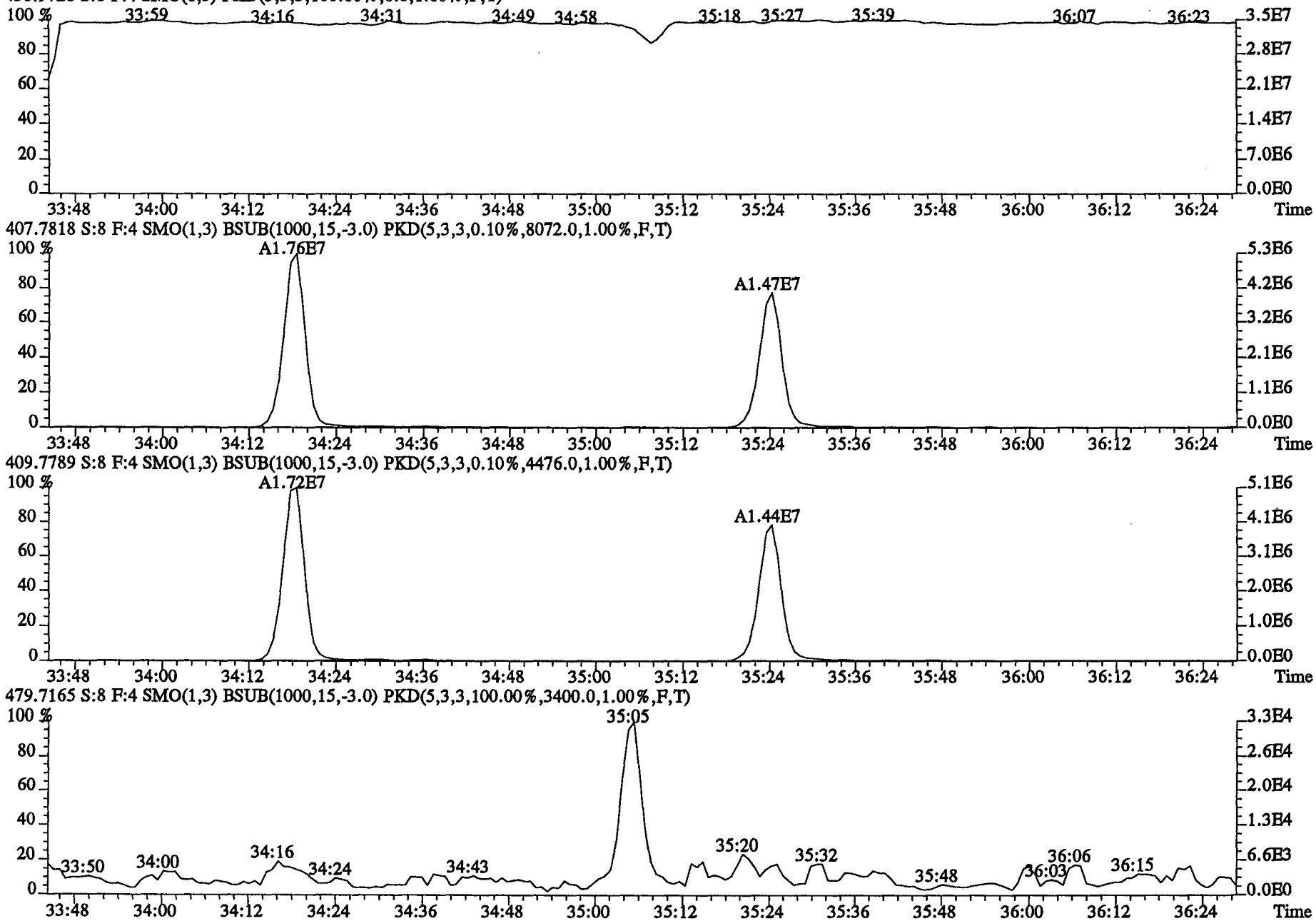
409.7974 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1960.0,1.00%,F,T)



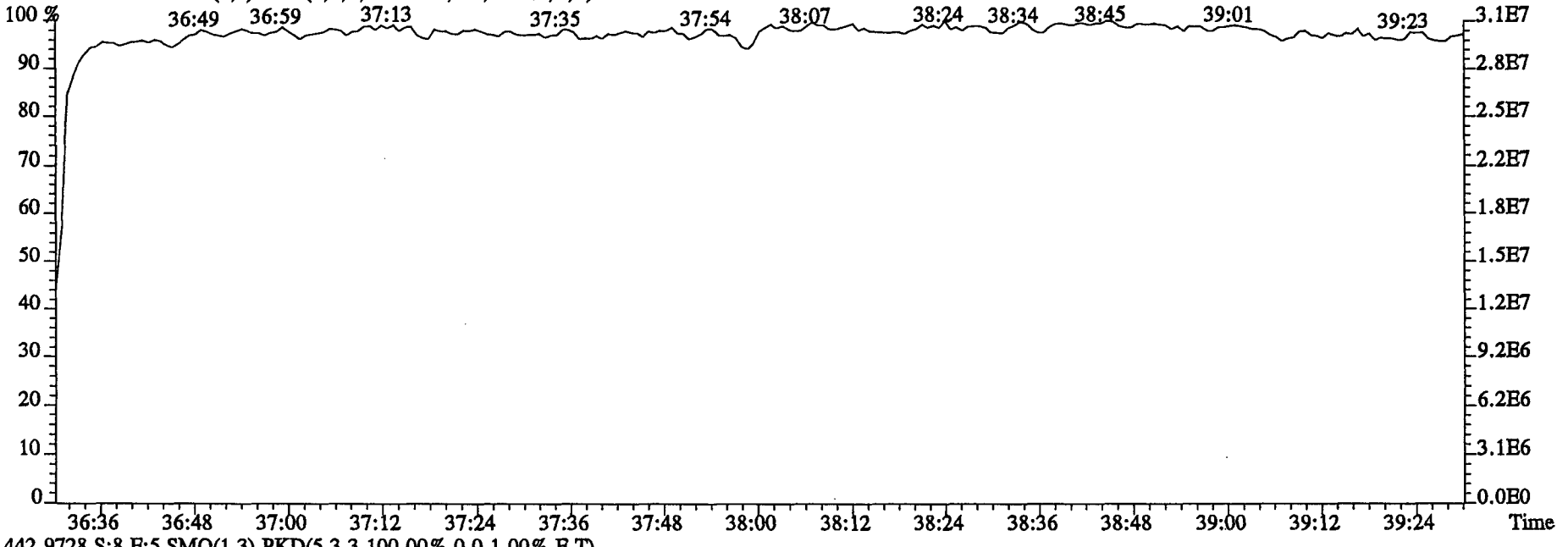
File:14DE10A9D5 #1-325 Acq:14-DEC-2010 20:05:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST1214E :2nd Source 10DXN340 Exp:DIOXINRES



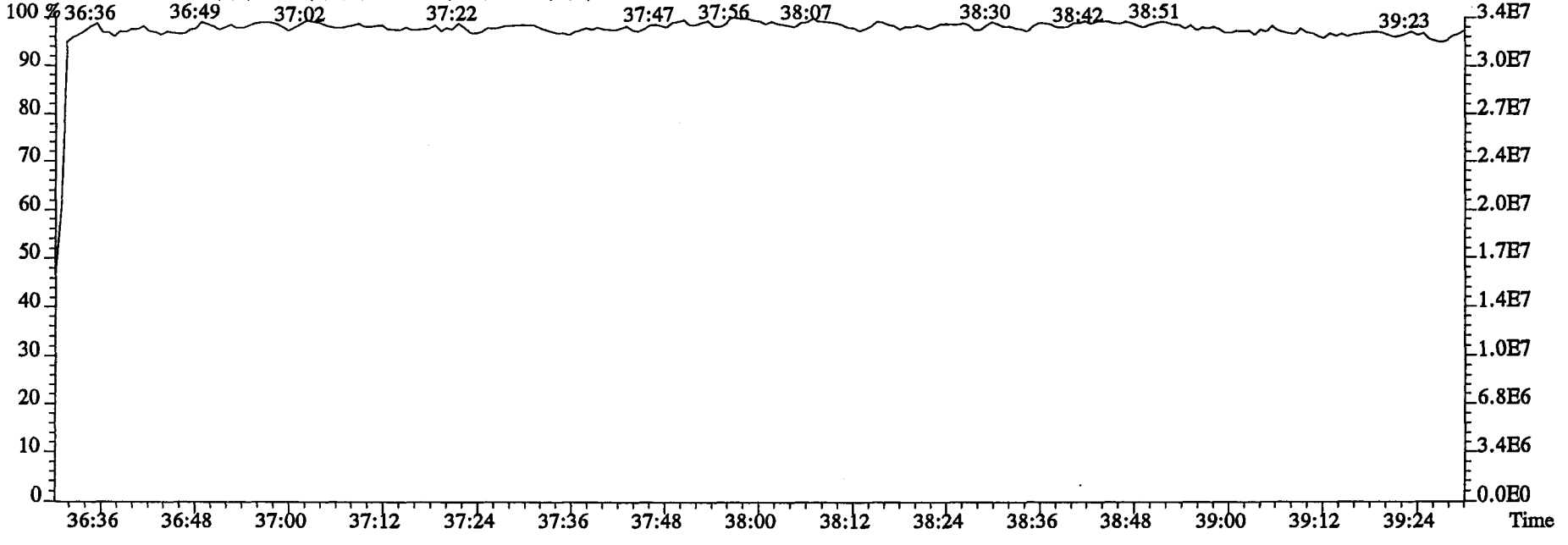
File:14DE10A9D5 #1-208 Acq:14-DEC-2010 20:05:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST1214E :2nd Source 10DXN340 Exp:DIOXINRES



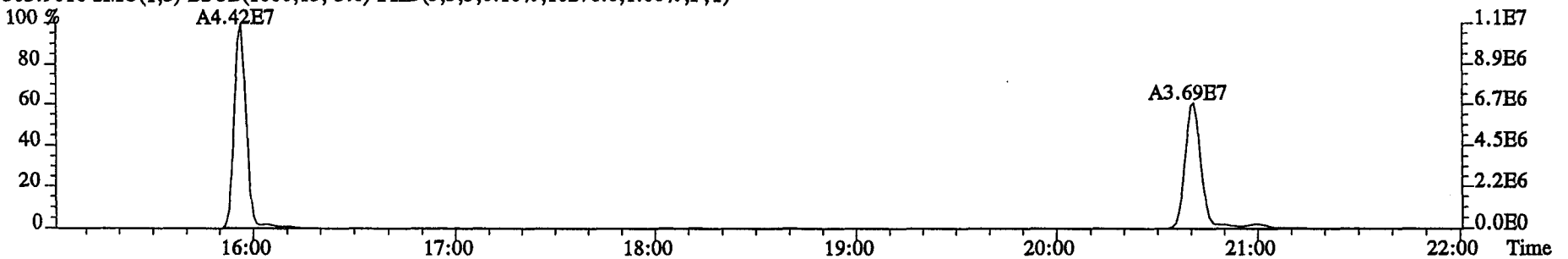
File:14DE10A9D5 #1-243 Acq:14-DEC-2010 20:05:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST1214E :2nd Source 10DXN340 Exp:DIOXINRES
454.9728 S:8 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

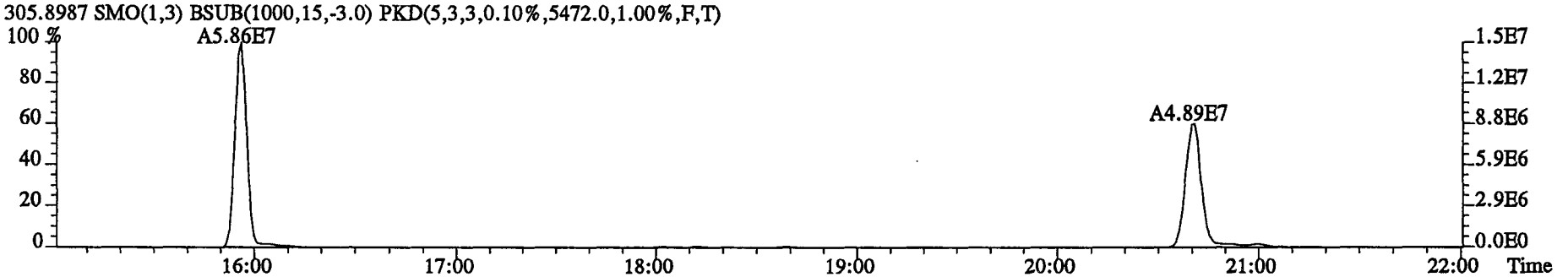


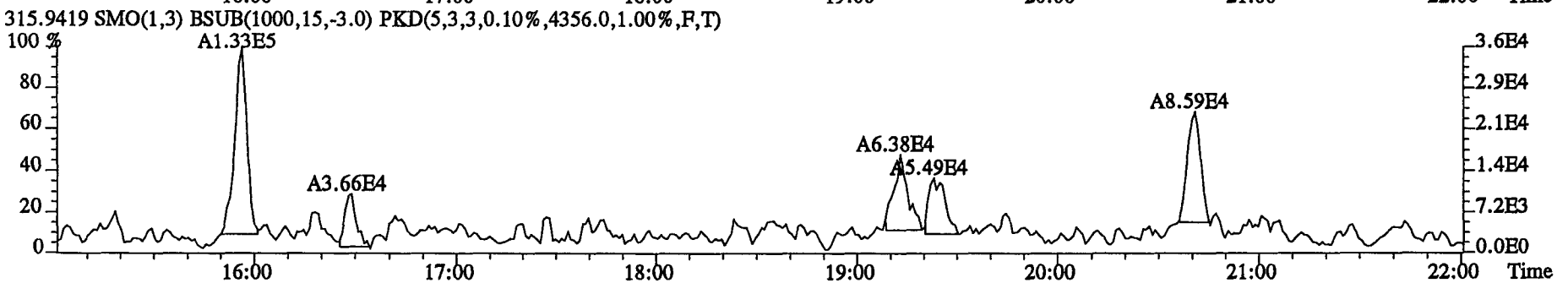
442.9728 S:8 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

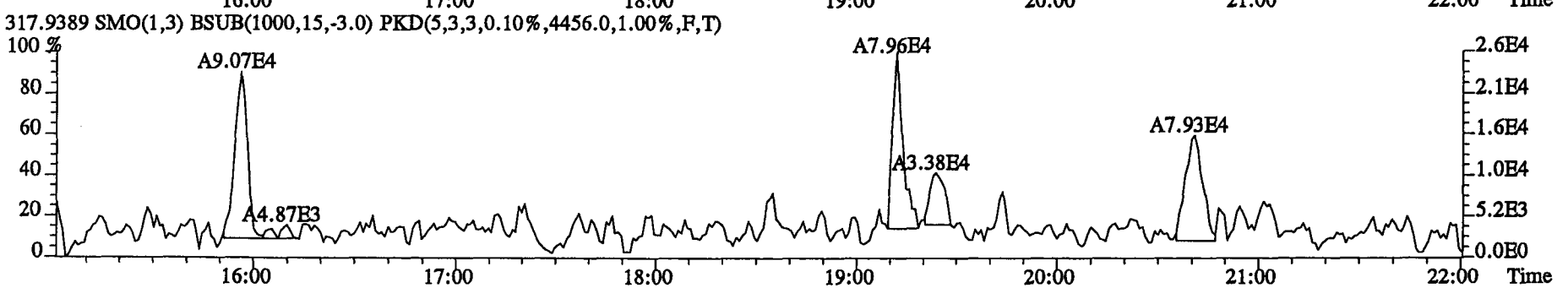


File:14DE10A9D5 #1-464 Acq:14-DEC-2010 14:51:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1214 :DB-5 CPSM 3732-08 Exp:DIOXINRES

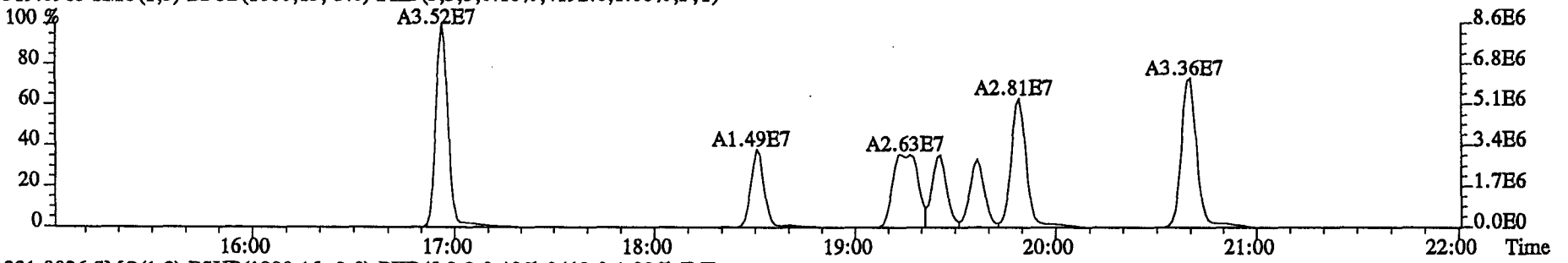


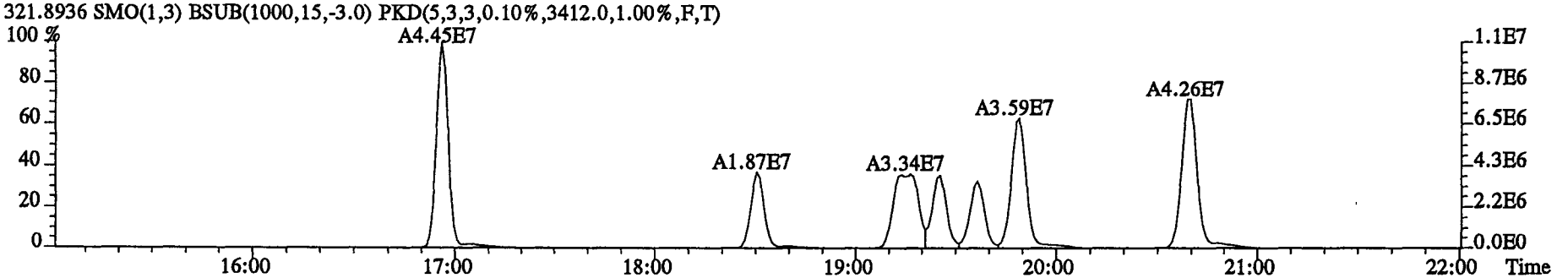


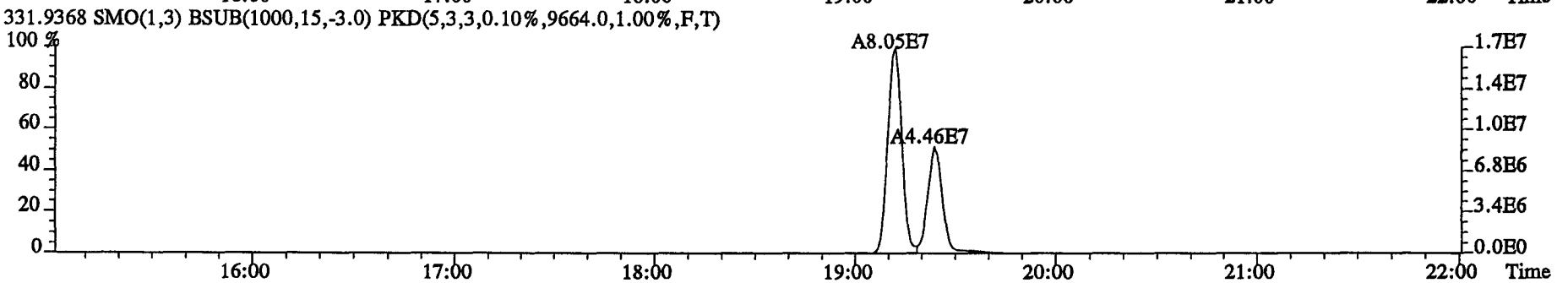


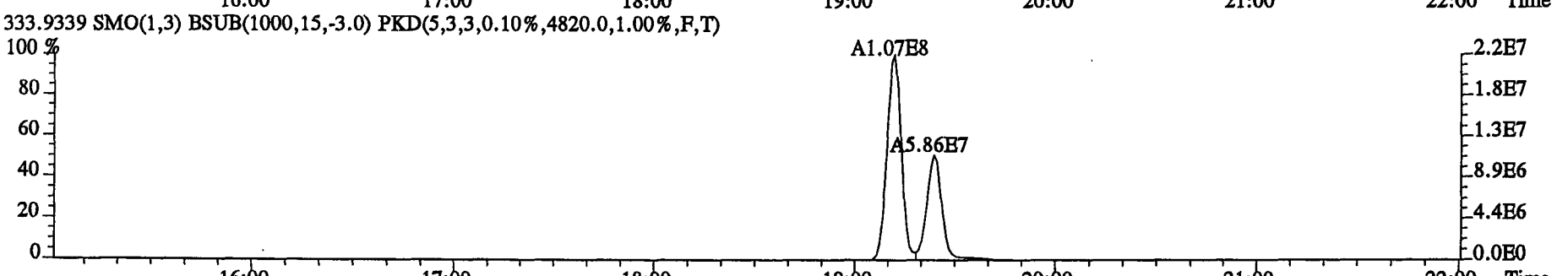


File:14DE10A9D5 #1-464 Acq:14-DEC-2010 14:51:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1214 :DB-5 CPSM 3732-08 Exp:DIOXINRES

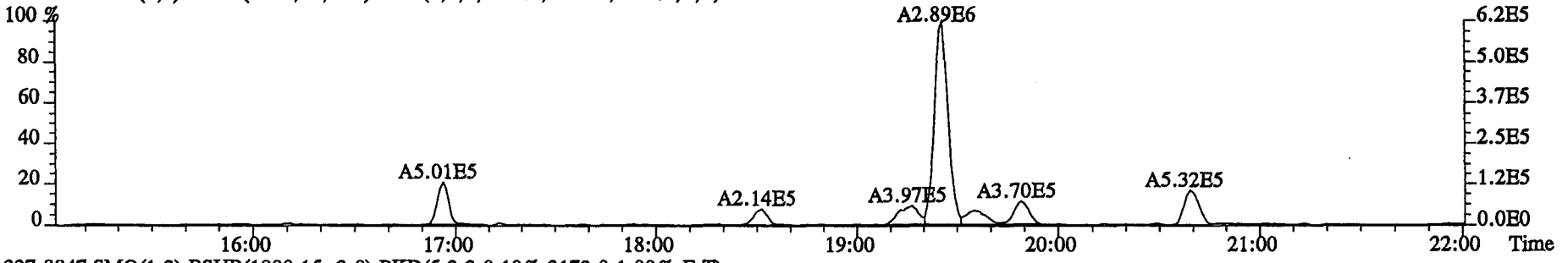




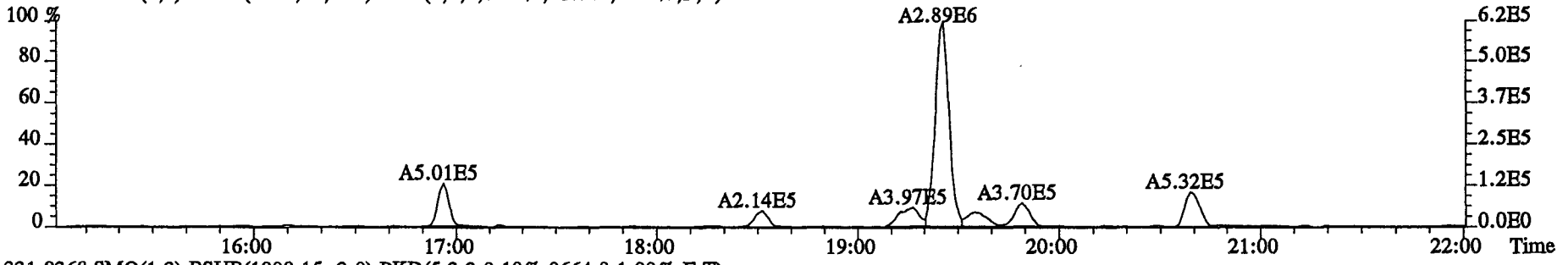




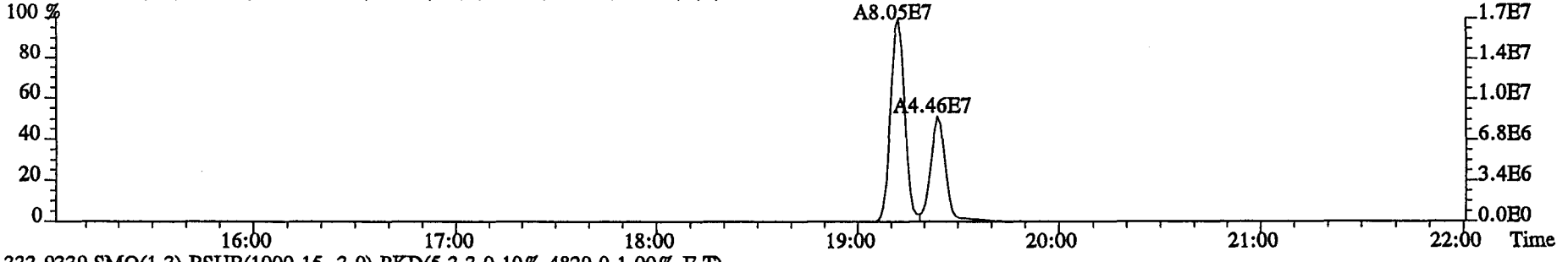
File:14DE10A9D5 #1-464 Acq:14-DEC-2010 14:51:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1214 :DB-5 CPSM 3732-08 Exp:DIOXINRES
327.8847 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3172.0,1.00%,F,T)



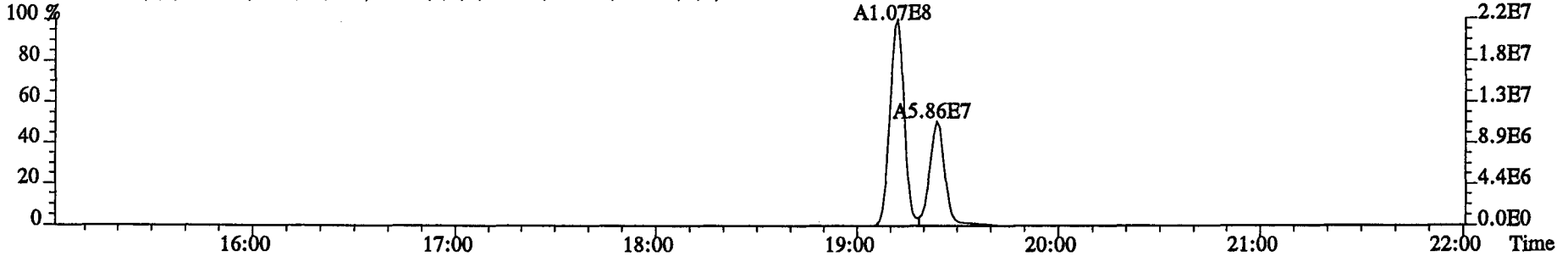
327.8847 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3172.0,1.00%,F,T)



331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9664.0,1.00%,F,T)

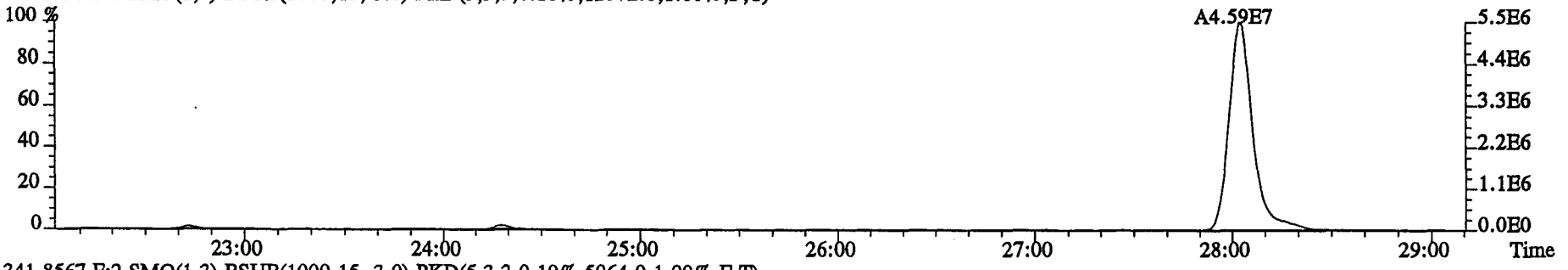


333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4820.0,1.00%,F,T)

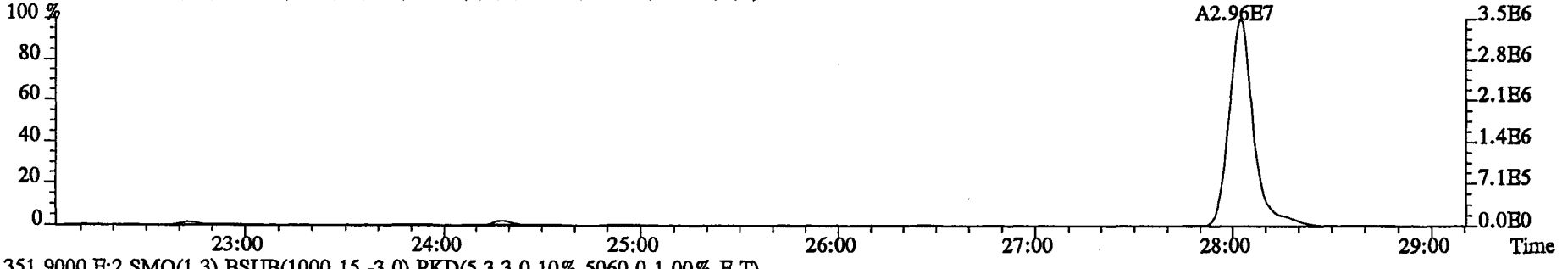


File:14DE10A9D5 #1-459 Acq:14-DEC-2010 14:51:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1214 :DB-5 CPSM 3732-08 Exp:DIOXINRES

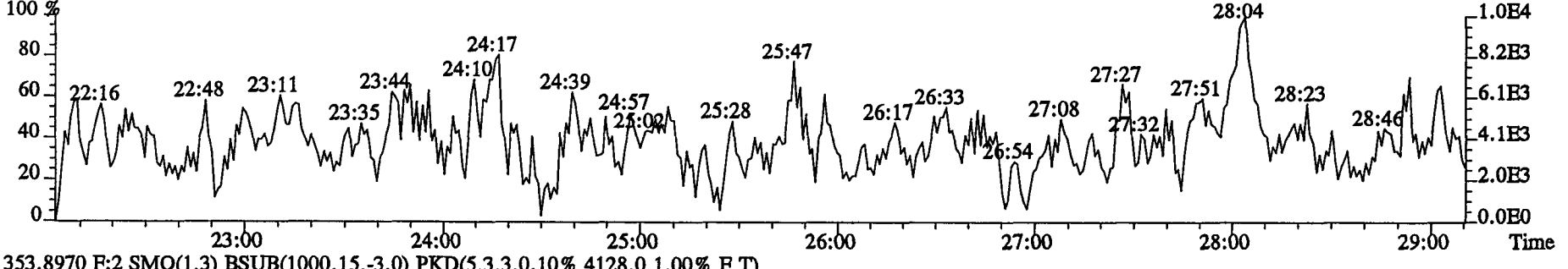
339.8597 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12572.0,1.00%,F,T)



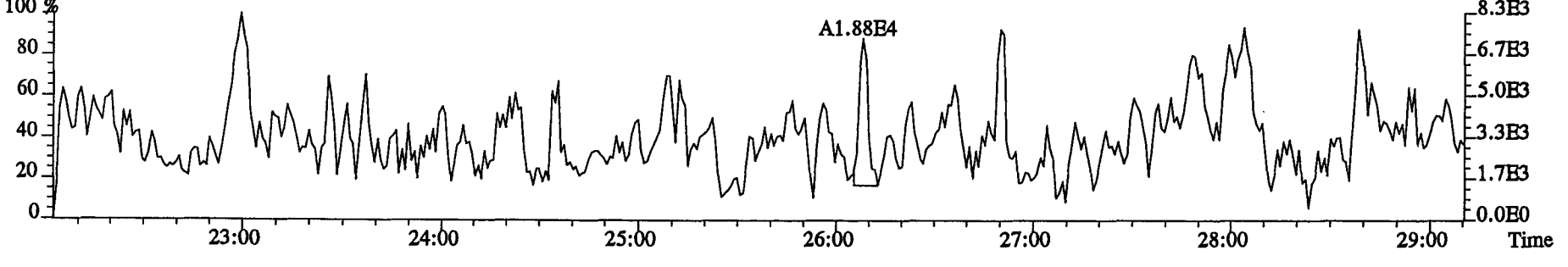
341.8567 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5964.0,1.00%,F,T)



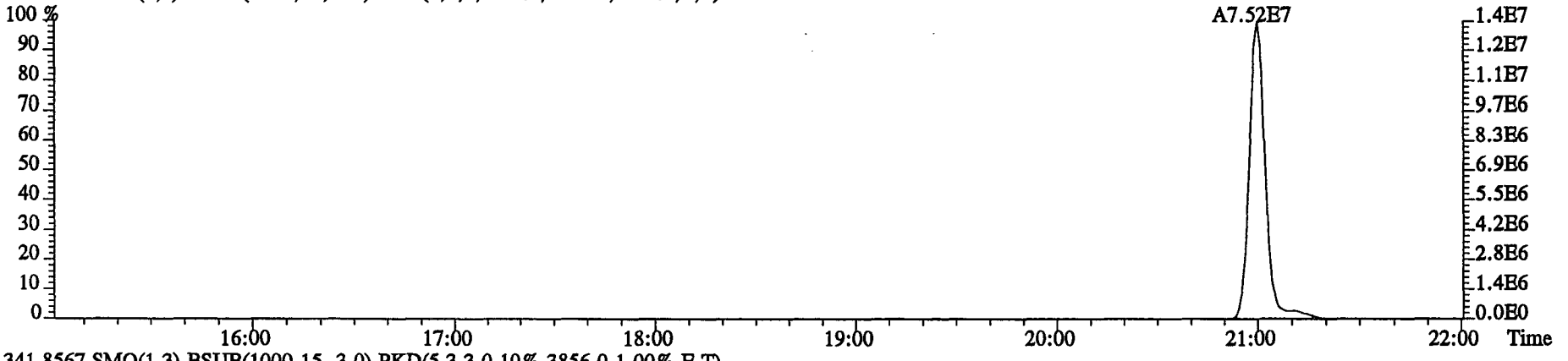
351.9000 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5060.0,1.00%,F,T)



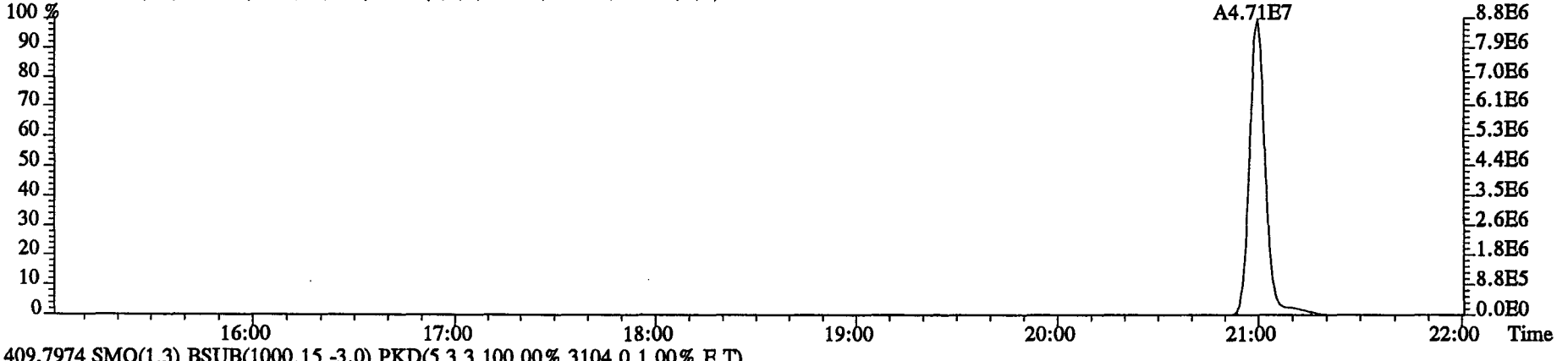
353.8970 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4128.0,1.00%,F,T)



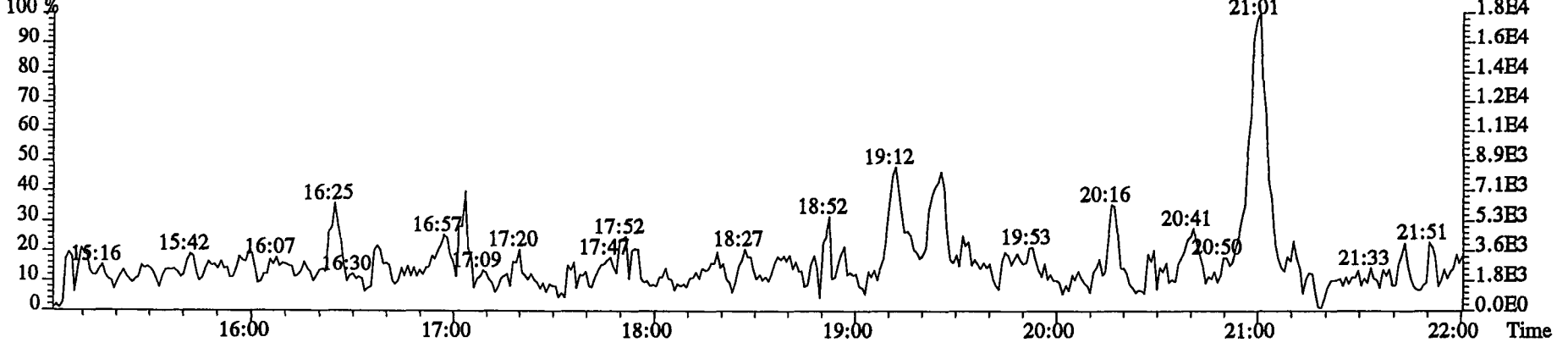
File:14DB10A9D5 #1-464 Acq:14-DEC-2010 14:51:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1214 :DB-5 CPSM 3732-08 Exp:DIOXINRES
339.8597 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3648.0,1.00%,F,T)



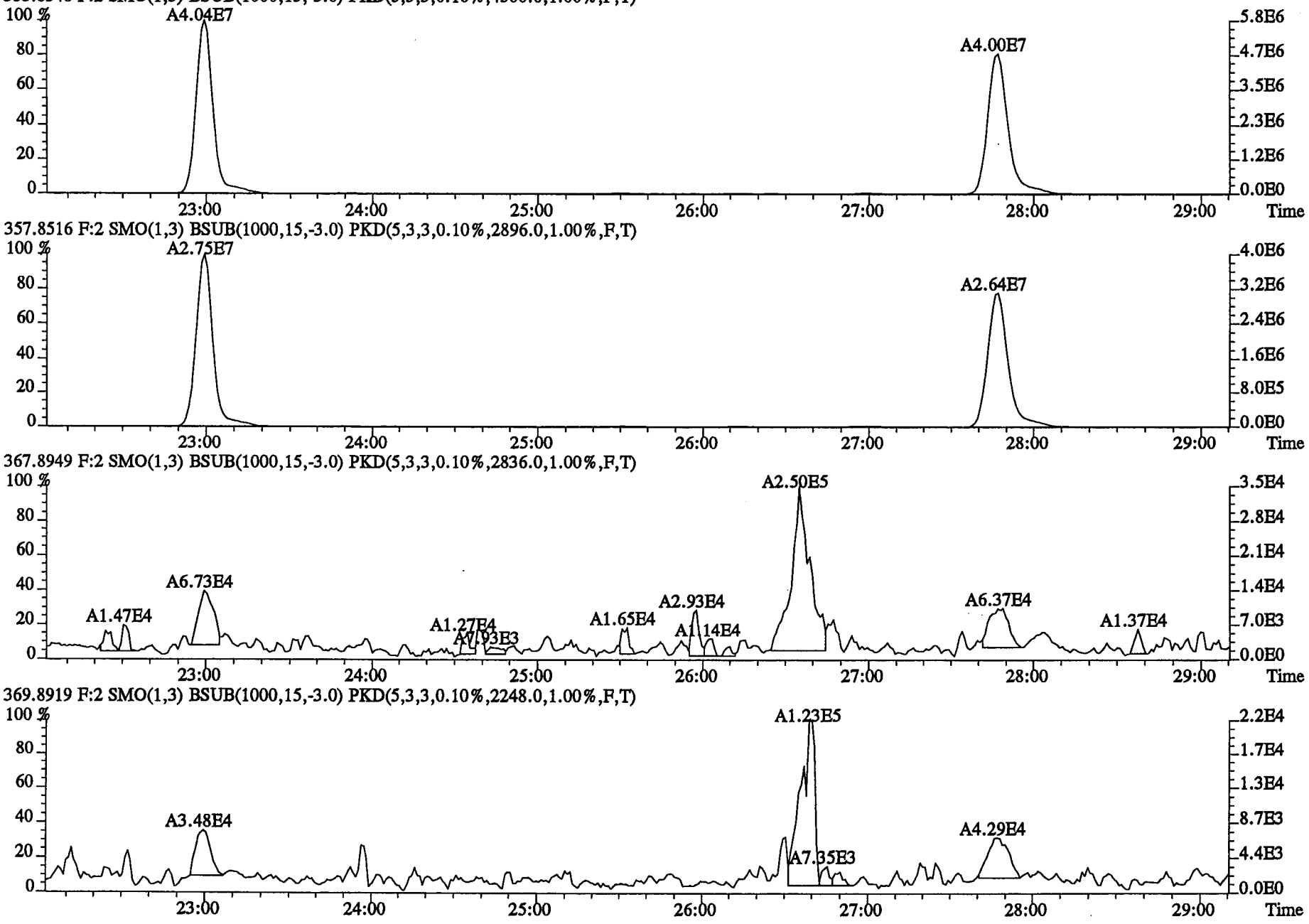
341.8567 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3856.0,1.00%,F,T)



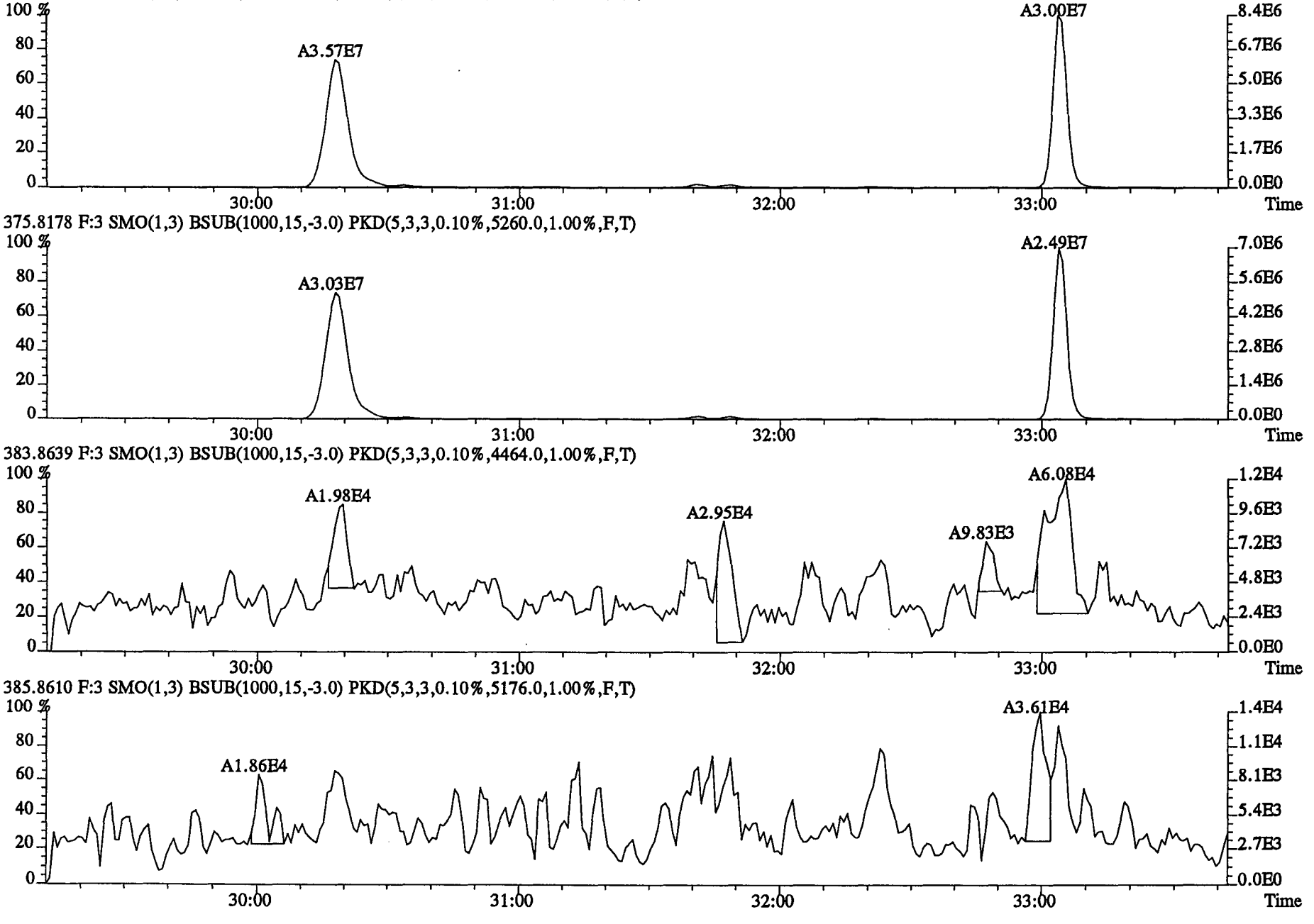
409.7974 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,3104.0,1.00%,F,T)



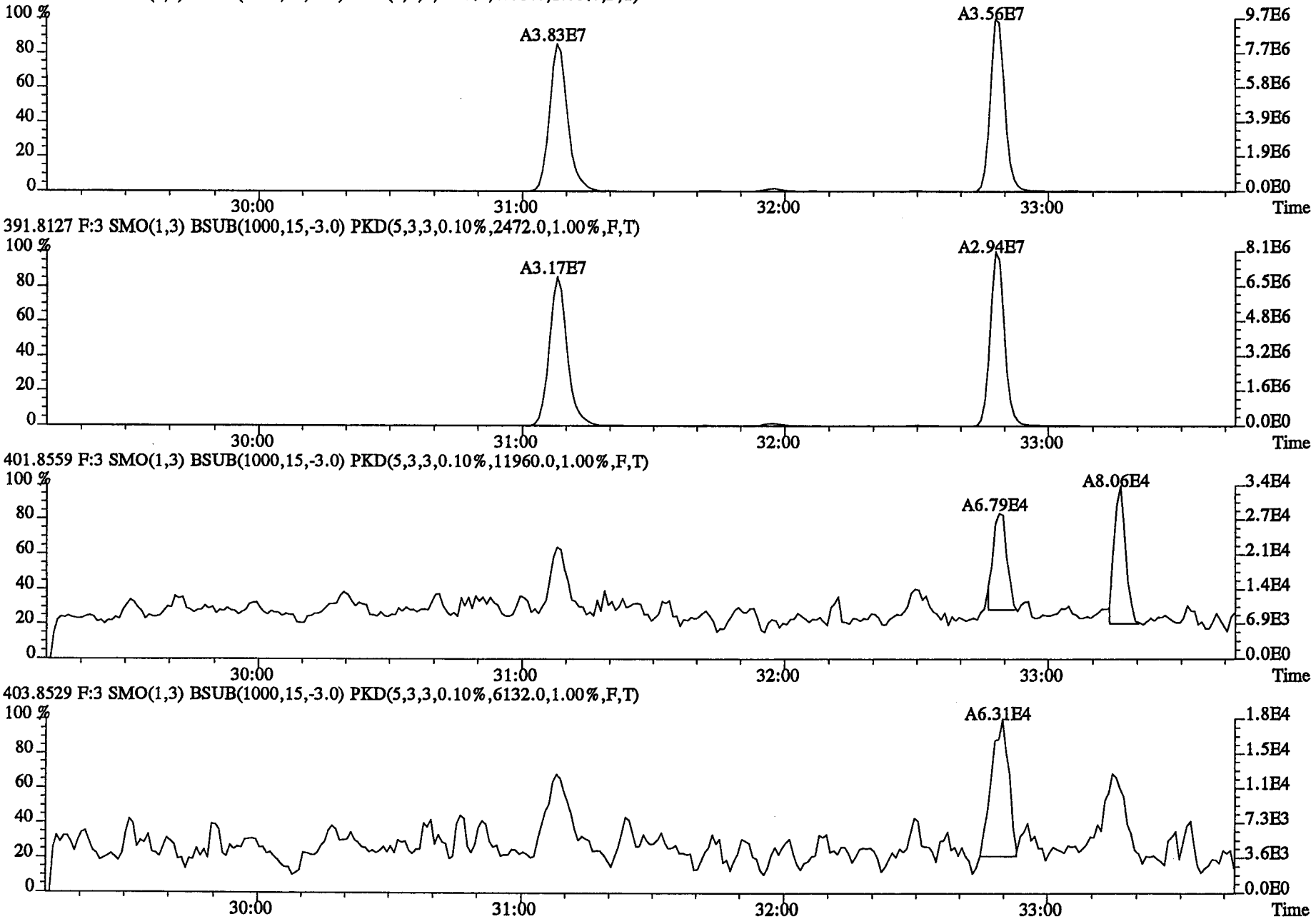
File:14DE10A9D5 #1-459 Acq:14-DEC-2010 14:51:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1214 :DB-5 CPSM 3732-08 Exp:DIOXINRES



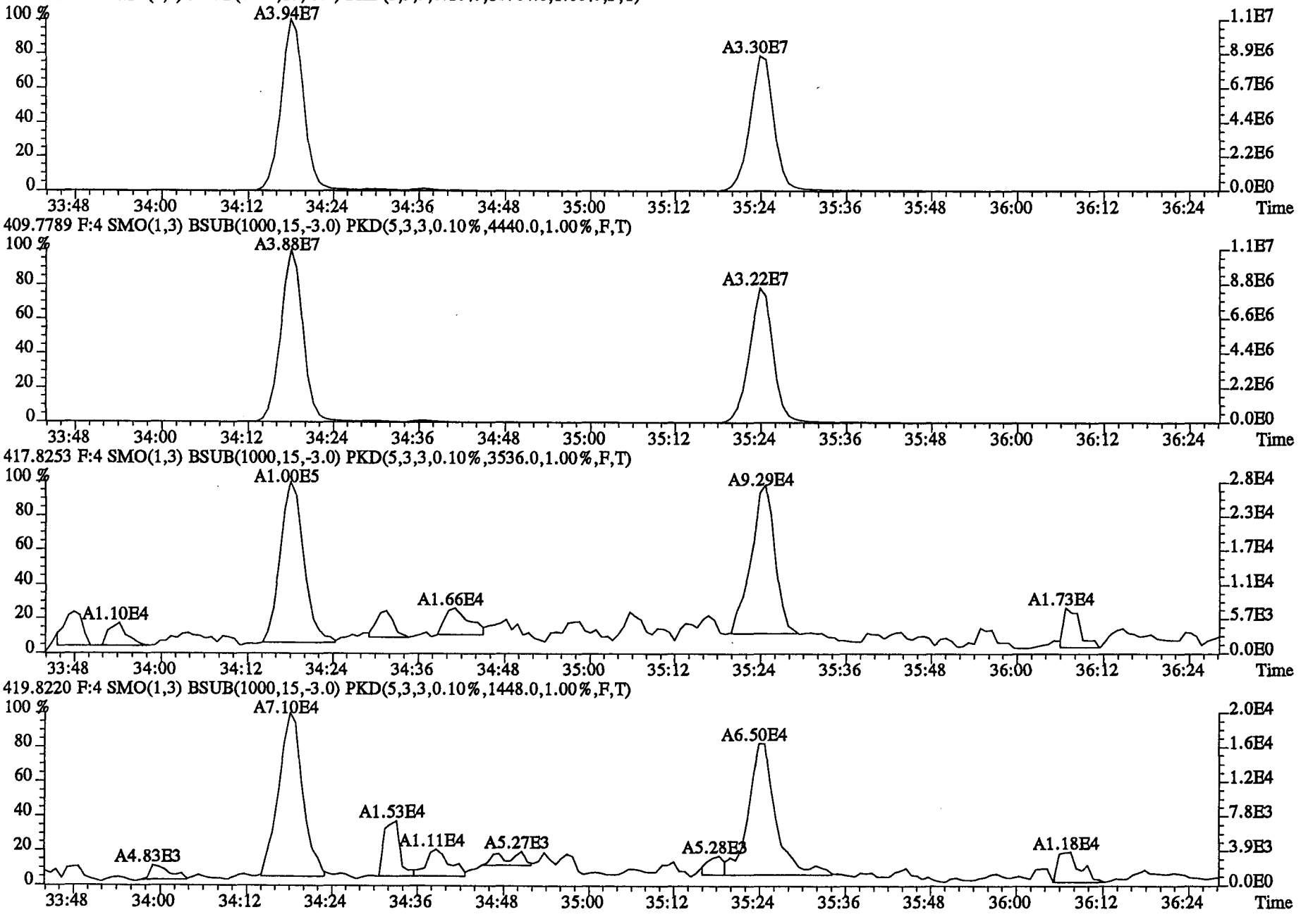
File:14DE10A9D5 #1-325 Acq:14-DEC-2010 14:51:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1214 :DB-5 CPSM 3732-08 Exp:DIOXINRES



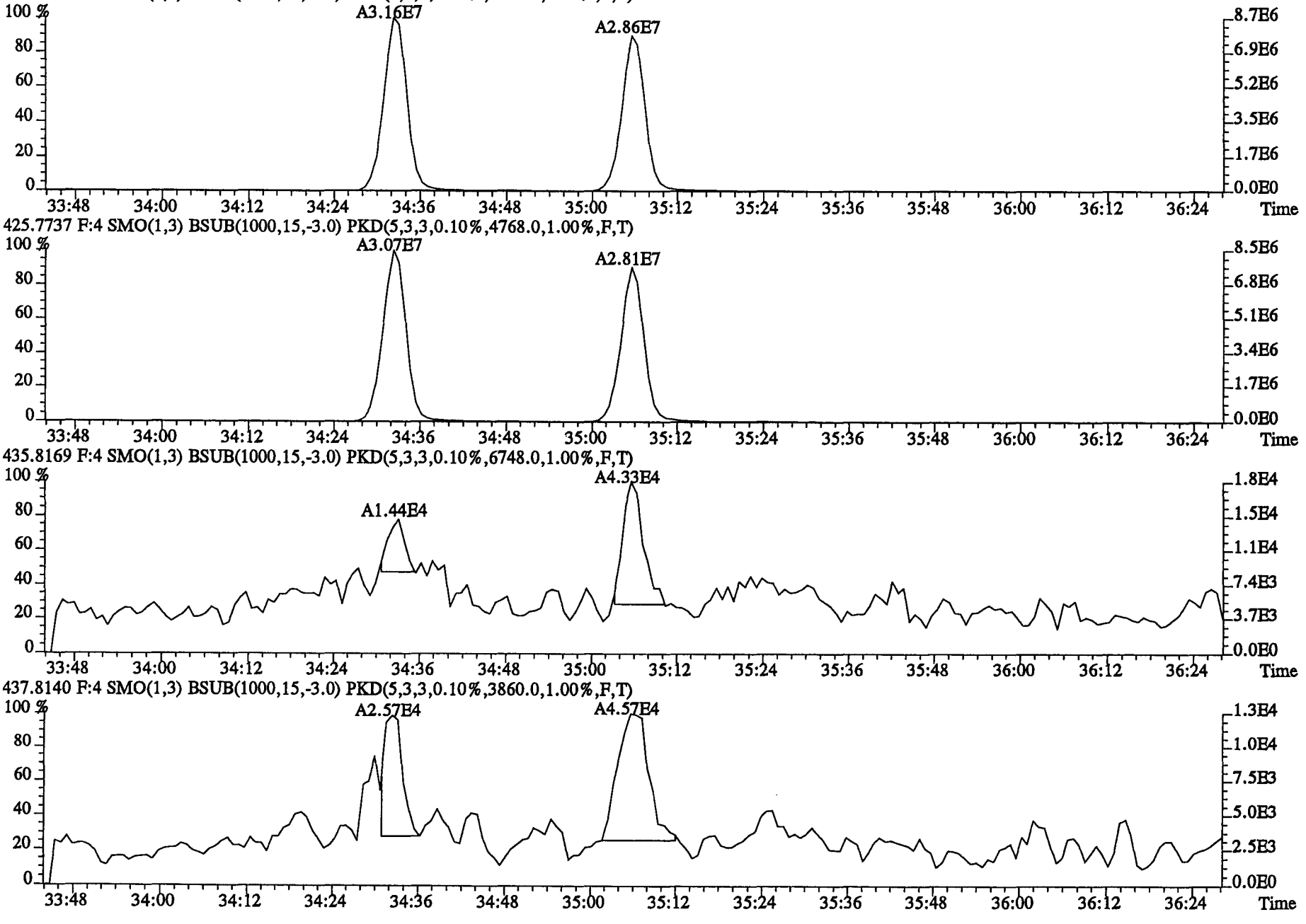
File:14DE10A9D5 #1-325 Acq:14-DEC-2010 14:51:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1214 :DB-5 CPSM 3732-08 Exp:DIOXINRES



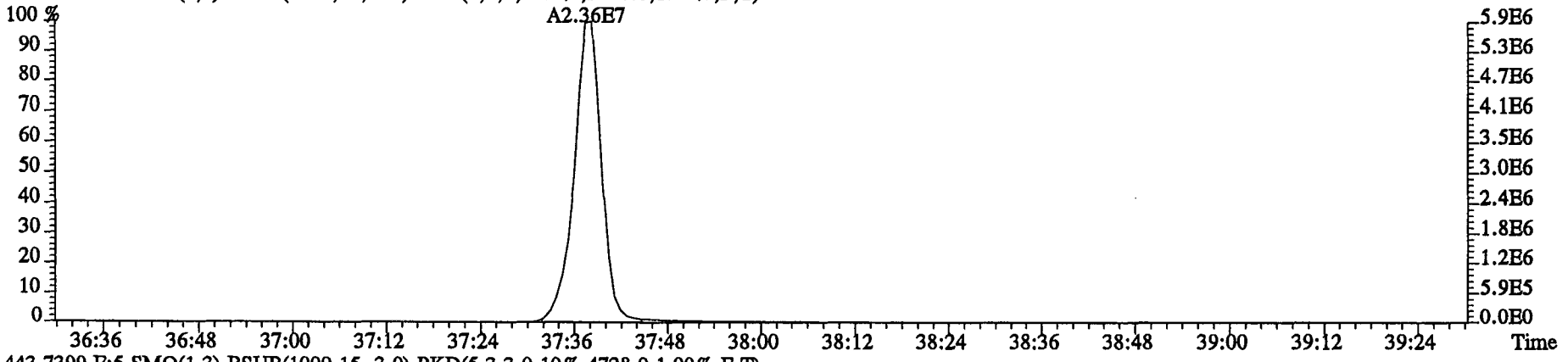
File:14DE10A9D5 #1-208 Acq:14-DEC-2010 14:51:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1214 :DB-5 CPSM 3732-08 Exp:DIOXINRES



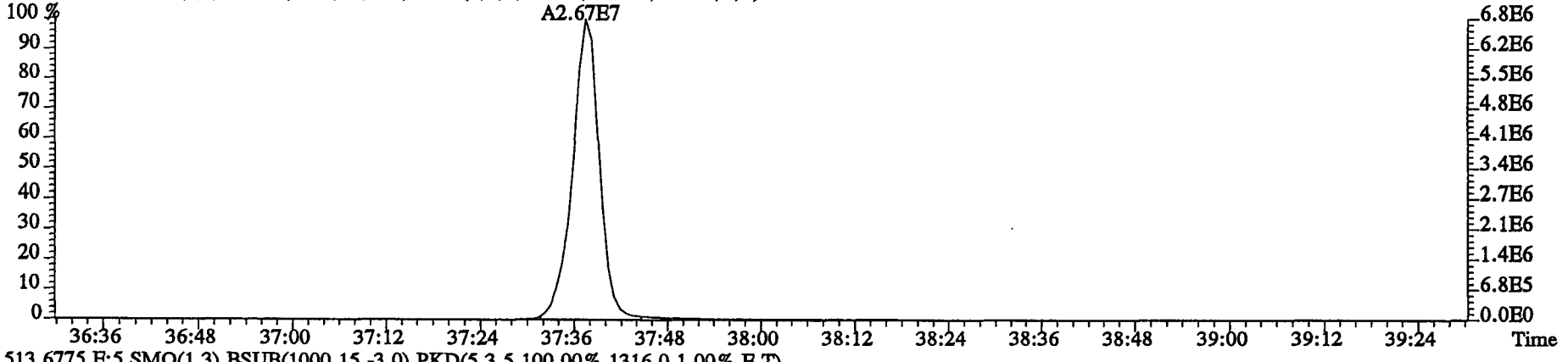
File:14DE10A9D5 #1-208 Acq:14-DEC-2010 14:51:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1214 :DB-5 CPSM 3732-08 Exp:DIOXINRES



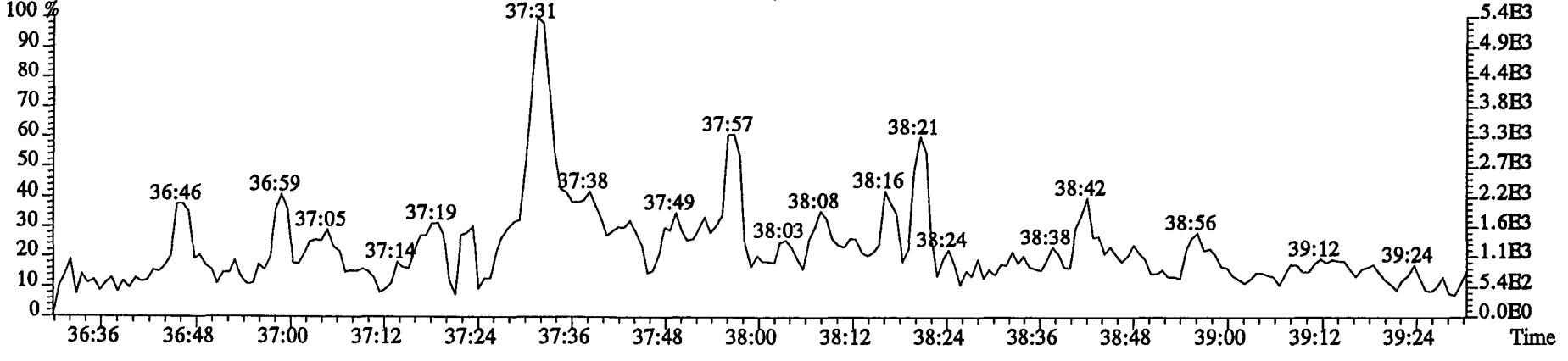
File:14DE10A9D5 #1-244 Acq:14-DEC-2010 14:51:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1214 :DB-5 CPSM 3732-08 Exp:DIOXINRES
441.7428 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2660.0,1.00%,F,T)



443.7399 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4728.0,1.00%,F,T)

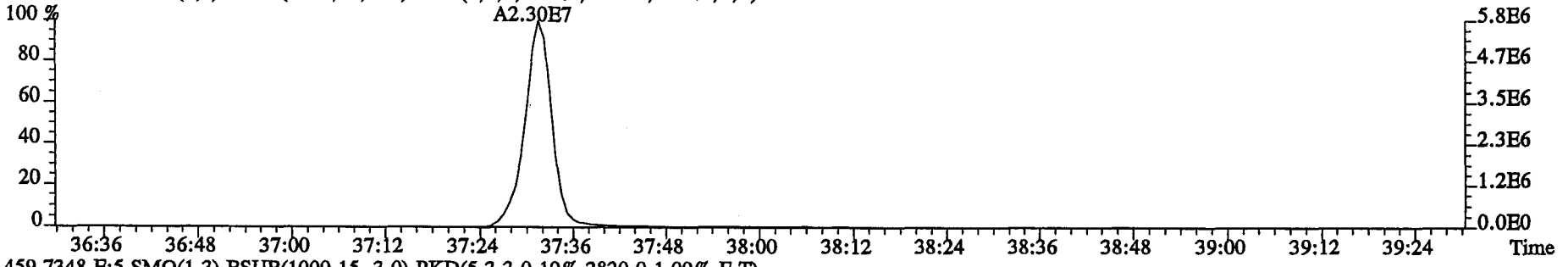


513.6775 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,1316.0,1.00%,F,T)

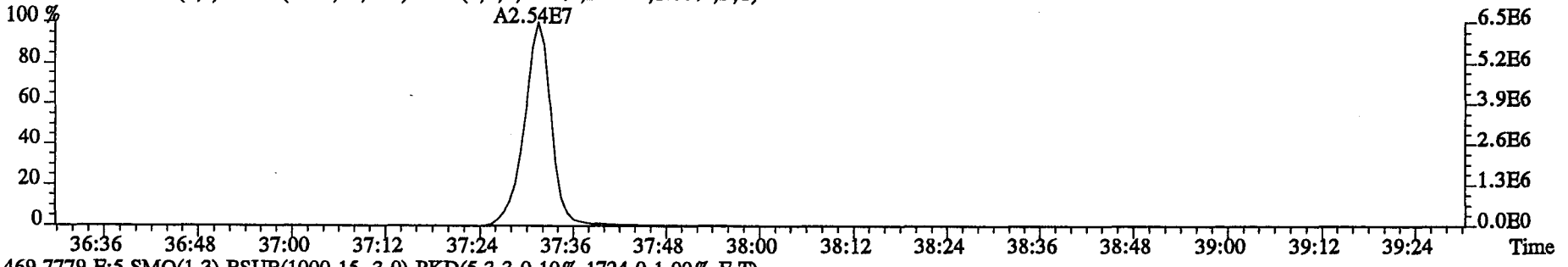


File:14DE10A9D5 #1-244 Acq:14-DEC-2010 14:51:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1214 :DB-5 CPSM 3732-08 Exp:DIOXINRES

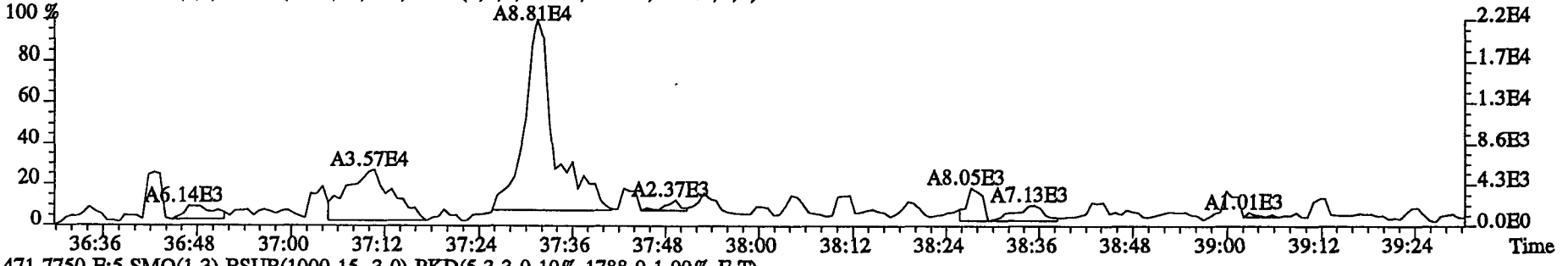
457.7377 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4960.0,1.00%,F,T)



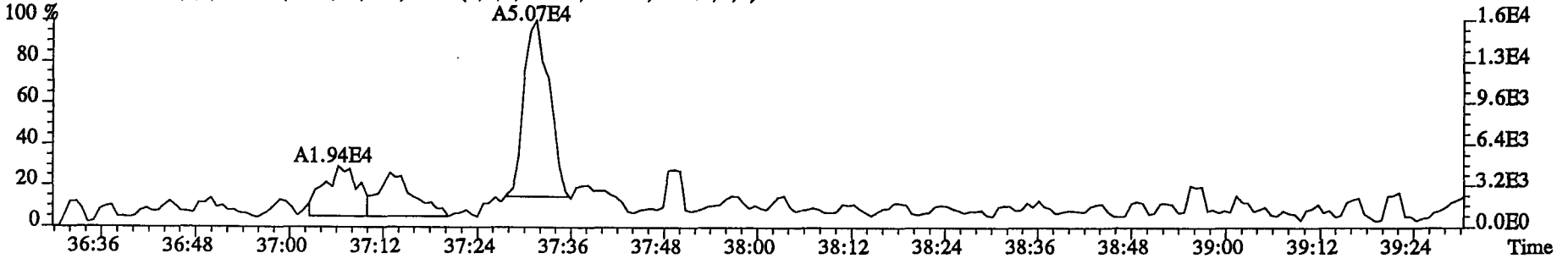
459.7348 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2820.0,1.00%,F,T)



469.7779 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1724.0,1.00%,F,T)

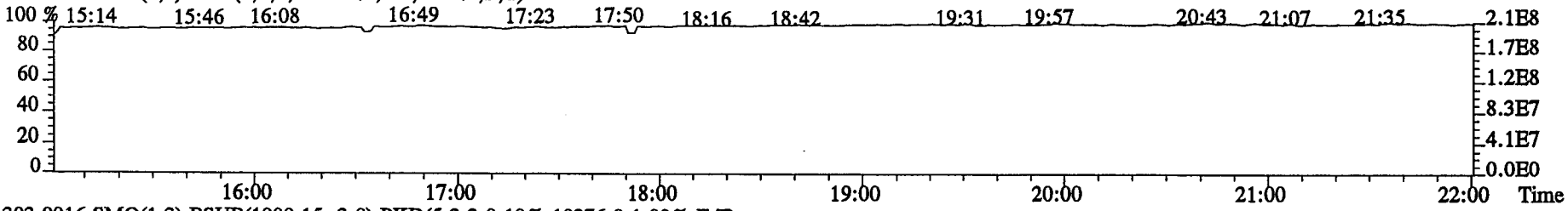


471.7750 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1788.0,1.00%,F,T)

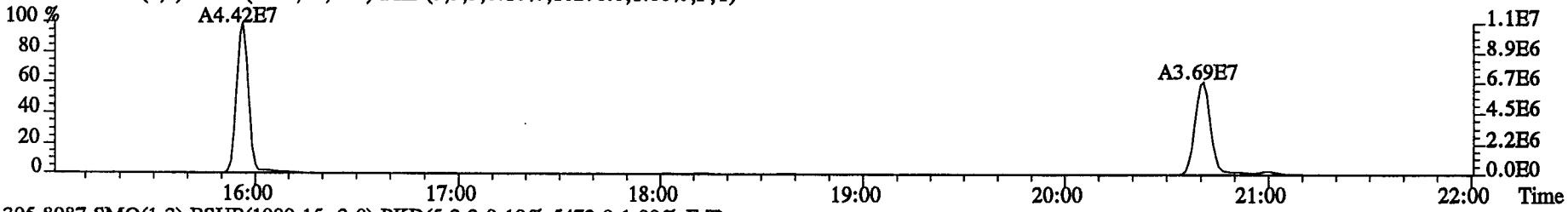


File:14DE10A9D5 #1-464 Acq:14-DEC-2010 14:51:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1214 :DB-5 CPSM 3732-08 Exp:DIOXINRES

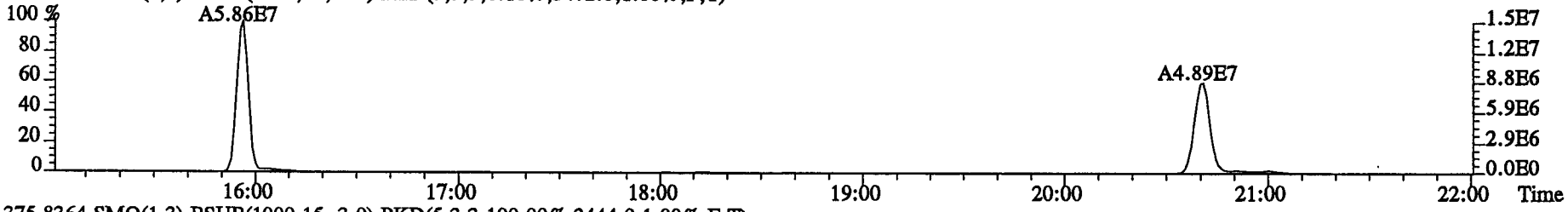
292.9825 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



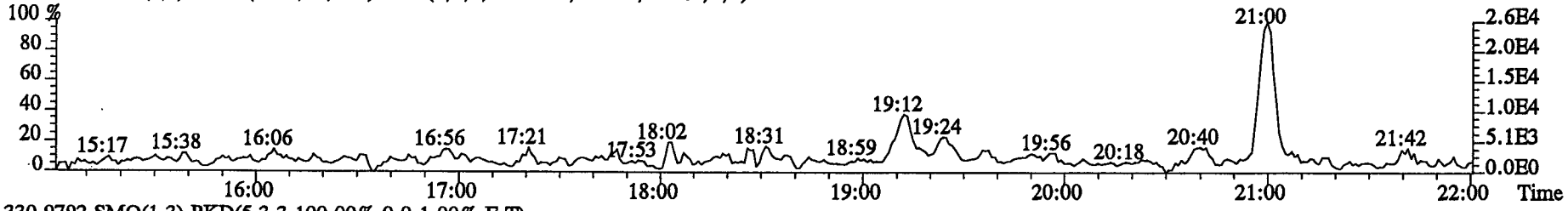
303.9016 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10276.0,1.00%,F,T)



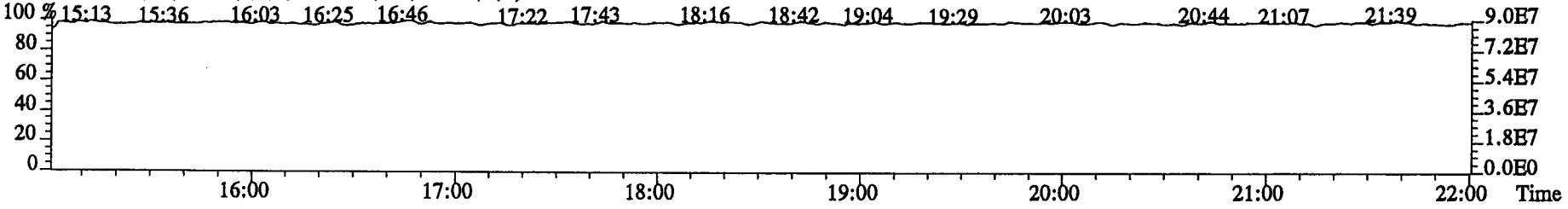
305.8987 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5472.0,1.00%,F,T)



375.8364 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2444.0,1.00%,F,T)

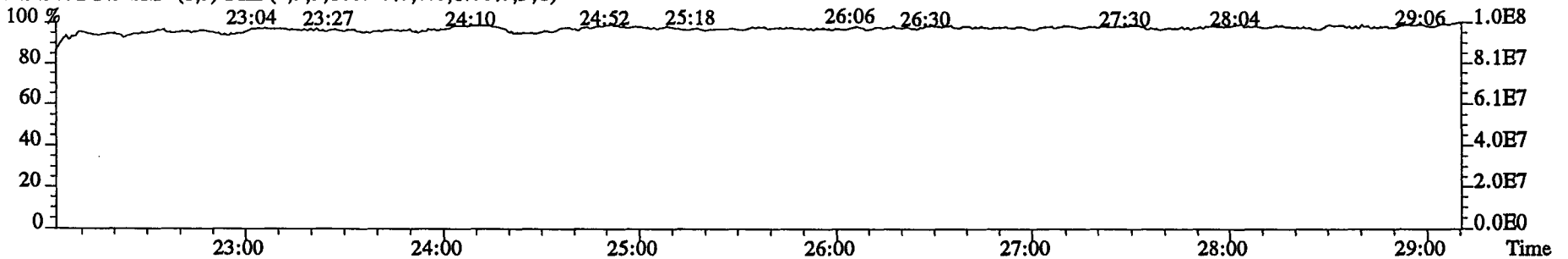


330.9792 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

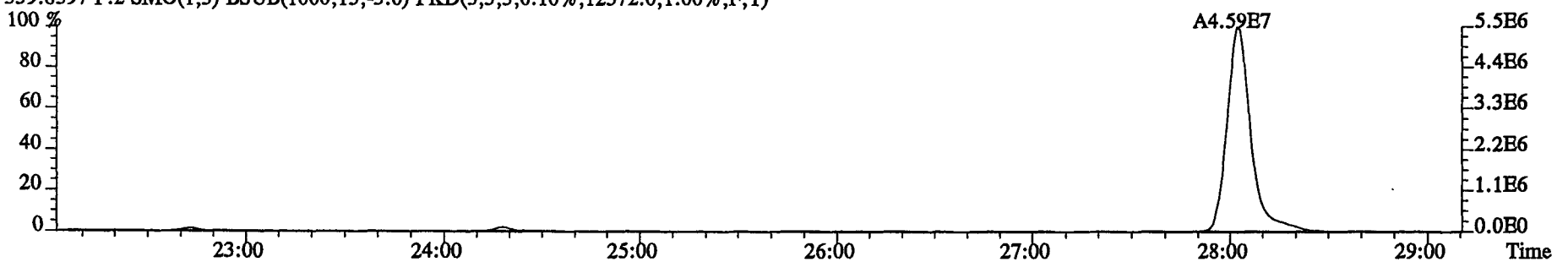


File:14DE10A9D5 #1-459 Acq:14-DEC-2010 14:51:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1214 :DB-5 CPSM 3732-08 Exp:DIOXINRES

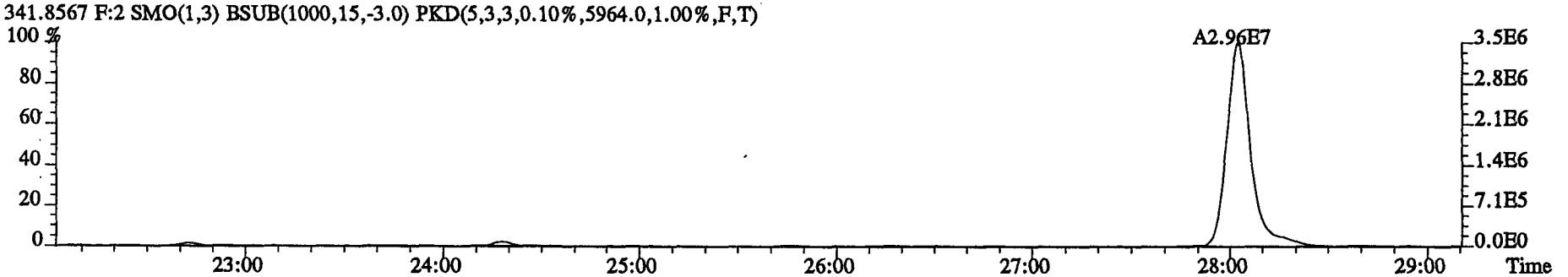
342.9792 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



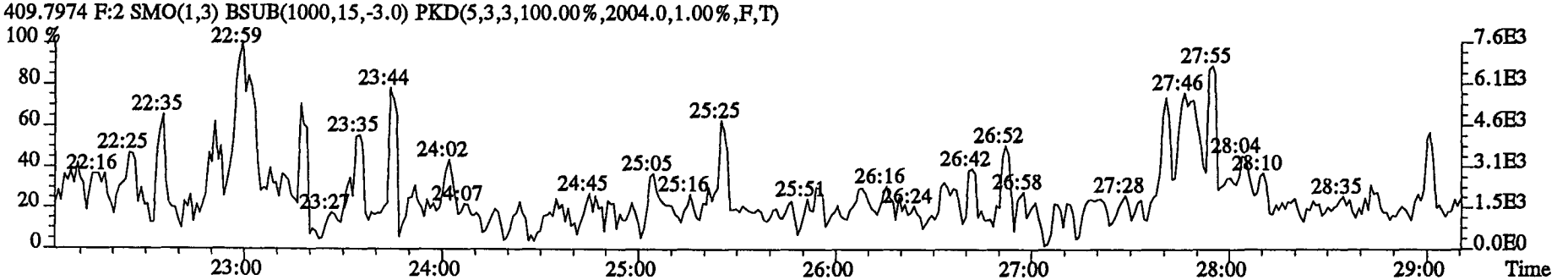
339.8597 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12572.0,1.00%,F,T)



341.8567 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5964.0,1.00%,F,T)



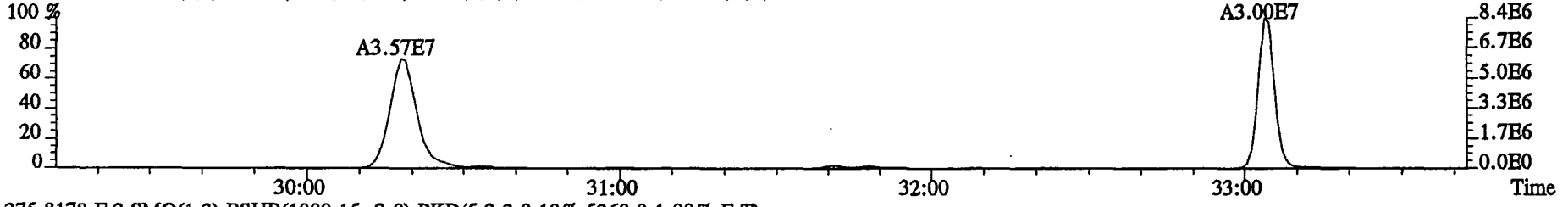
409.7974 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2004.0,1.00%,F,T)



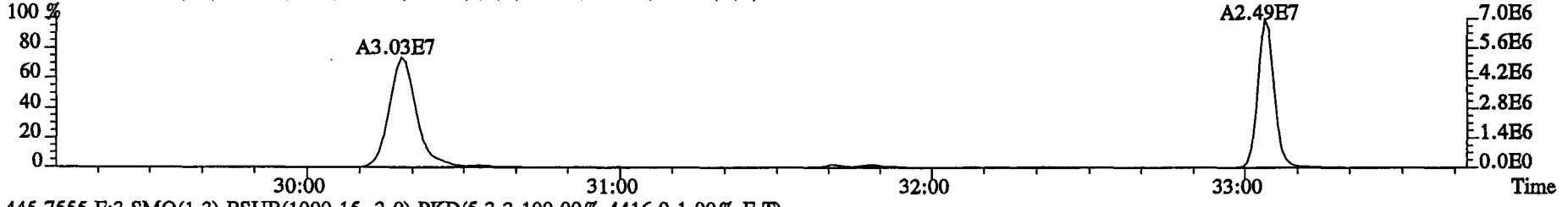
File:14DE10A9D5 #1-325 Acq:14-DEC-2010 14:51:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1214 :DB-5 CPSM 3732-08 Exp:DIOXINRES

392.9760 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

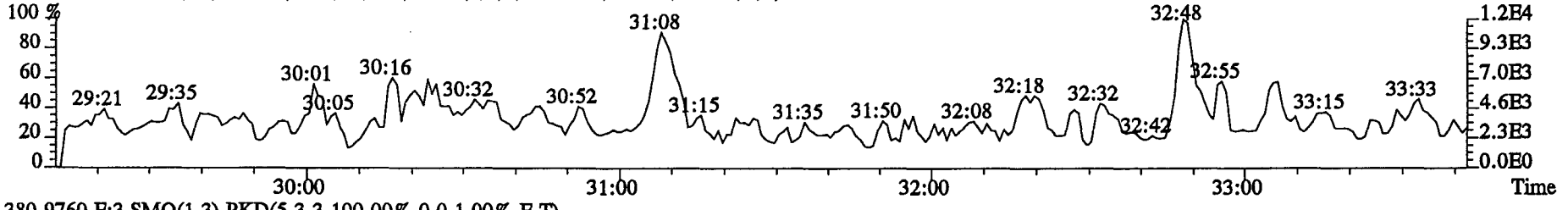
373.8208 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11508.0,1.00%,F,T)



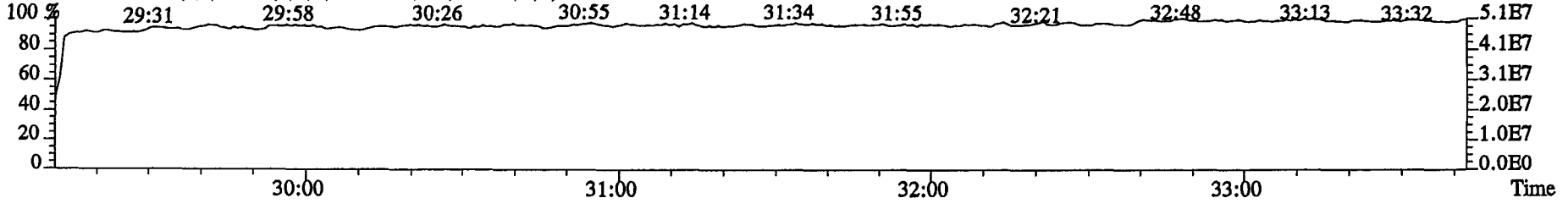
375.8178 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5260.0,1.00%,F,T)



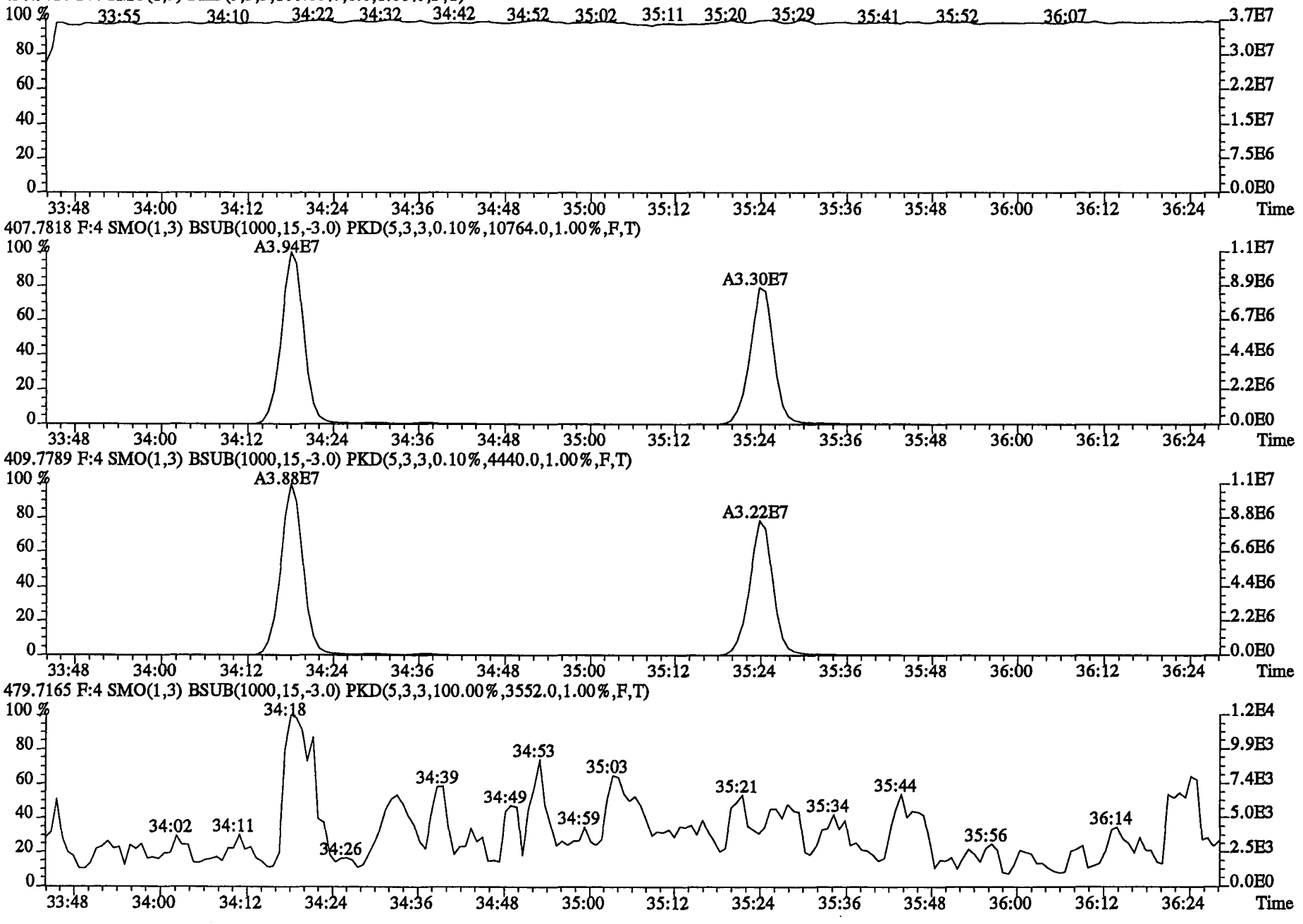
445.7555 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,4416.0,1.00%,F,T)



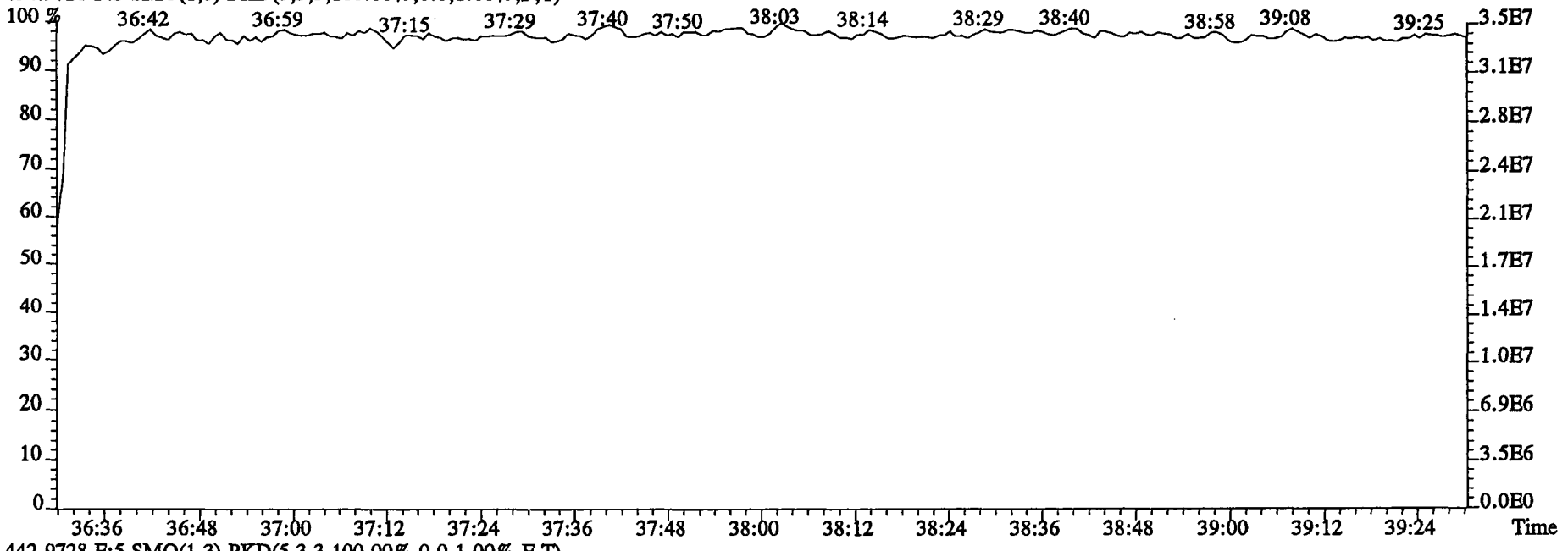
380.9760 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



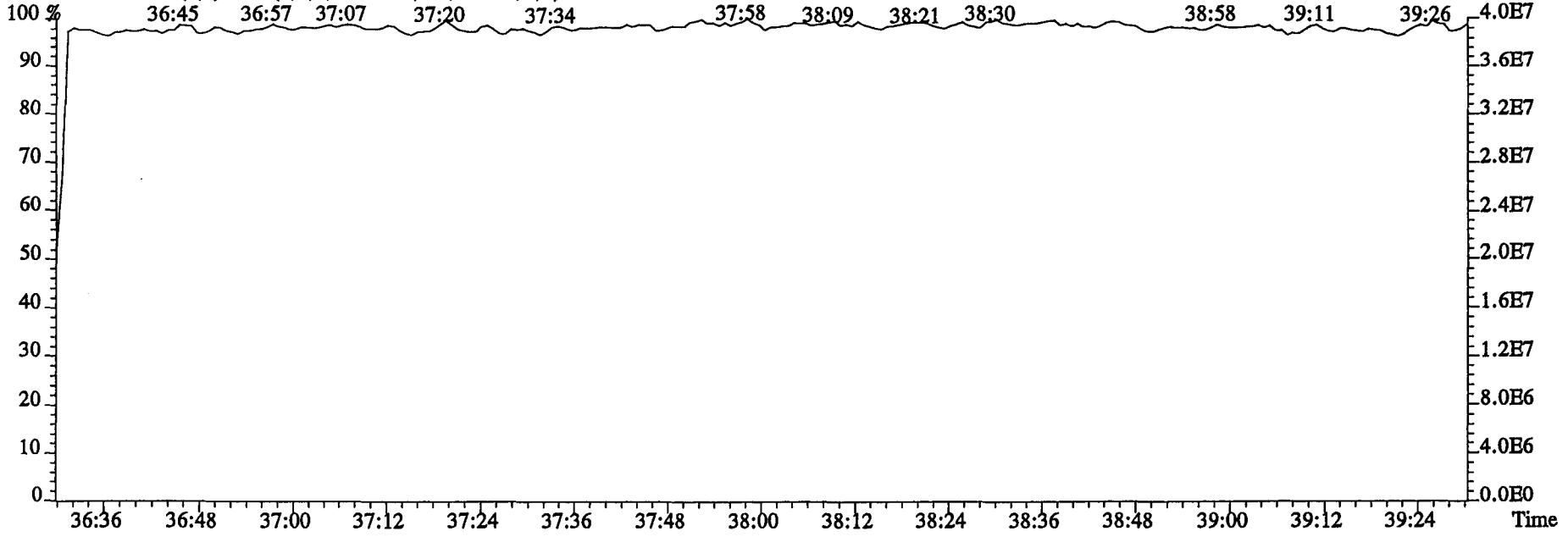
File:14DE10A9D5 #1-208 Acq:14-DEC-2010 14:51:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1214 :DB-5 CPSM 3732-08 Exp:DIOXINRES



File:14DE10A9D5 #1-244 Acq:14-DEC-2010 14:51:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1214 :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)



Test America – West Sacramento

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Initial Calibration Checklist
Dioxin Methods

ICAL ID (DB225, DB225AIR) 121410SD2

Method ID 1613B, 8290, TO9, 23, 0023A Date Scanned _____

Column ID DB225 Instrument ID 5D2

STD ID's ST1214, ST1214A → D STD Solution 10DXN (503 → 507)

GC Program DB225 Multiplier Setting 750 kV

Analyzed By KSS Date Analyzed 12-14-10

Prepared By KSS Date Prepared 12-15-10

Reviewed By AS Date Reviewed 12-15-10

Curve summary present?	✓	✓
Hardcopies of chromatograms for CS1-CS5 present?	✓	✓
Copy of log-file present?	✓	✓
Beginning and Ending Static resolution check present?	✓	✓
DLM02.2: Beginning and ending CPSM blow ups present?	✓	✓
DLM02.2: CPSM valley < 25%. Resolution documented below? **	✓	✓
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?	✓	✓
DLM02.2: Absolute retention time for 13C12-1,2,3,4-TCDD > 25 minutes on a DB-5 column or 13C12-1,2,3,4-TCDD > 15 minutes on a DB-225 column? ICAL CS3 Absolute RT = 15:18	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA

COMMENTS:

CPSM 1 valley = 17% ; CPSM 2 valley = 17%

* Method 8290/TO9/M0023A: %RSD ≤20% for natives, ≤30% for labeled compounds; S/N≥10
Method 1613B/DLM02.2: %RSD≤ 20% natives, ≤30% labeled compounds; S/N ≥10
Method 23: %RSD ≤ values specified in Table 5, Method 23; S/N ≥ 2.5

** **DLM02.2 CPSM Criteria**: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Run: 29OC10B5D2 Analyte: DB225AIR Cal: DB225AIR1214105D2

ST1214 :10DXN503 CS11214 KSS ST1214A :10DXN504 CS21214A ╗ ST1214B :10DXN505 CS31414B ╗
ST1214C :10DXN506 CS41214C ╗ ST1214D :10DXN507 CS51214D ╗

14DE10B5D214DE10B5D214DE10B5D214DE10B5D214DE10B5D2

Name	Mean	S. D.	%RSD	S3 RRF1	S4 RRF2	S5 RRF3	S6 RRF4	S7 RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	2.023	0.106	5.26 %	1.92	2.07	2.18	2.00	1.94
2,3,7,8-TCDF	1.012	0.027	2.71 %	1.04	1.03	0.98	1.01	1.00
13C-2,3,7,8-TCDD	0.985	0.061	6.17 %	0.99	1.01	1.05	0.99	0.89
2,3,7,8-TCDD	1.562	0.050	3.20 %	1.59	1.61	1.54	1.59	1.48
37Cl-2,3,7,8-TCDD	1.774	0.040	2.28 %	1.76	1.84	1.76	1.79	1.73

Run #1 Filename 14DE10B5D2 S: 3 I: 1
Acquired: 14-DEC-10 14:15:32 Processed: 15-DEC-10 08:46:35
Run: 29OC10B5D2 Analyte: DB225AIR Cal: DB225AIR1214105D2
Comments:
Sample text: ST1214 :10DXN503 CS11214 KSS

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	198210300	0.80	y	15:19	-	100.00	n
13C-2,3,7,8-TCDF	380145000	0.79	y	16:32	1.918	100.00	n
2,3,7,8-TCDF	1983432	0.71	y	16:33	1.044	0.50	n
13C-2,3,7,8-TCDD	196387400	0.78	y	15:00	0.991	100.00	n
2,3,7,8-TCDD	1557338	0.81	y	15:01	1.586	0.50	n
37Cl-2,3,7,8-TCDD	1725766	1.00	y	15:01	1.758	0.50	n

Run #2 Filename 14DE10B5D2 S: 4 I: 1
Acquired: 14-DEC-10 14:51:46 Processed: 15-DEC-10 08:46:35
Run: 29OC10B5D2 Analyte: DB225AIR Cal: DB225AIR1214105D2
Comments:
Sample text: ST1214A :10DXN504 CS21214A KSS

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	187943700	0.80	y	15:19	-	100.00	n
13C-2,3,7,8-TCDF	389377000	0.80	y	16:32	2.072	100.00	n
2,3,7,8-TCDF	8053700	0.72	y	16:33	1.034	2.00	n
13C-2,3,7,8-TCDD	189250100	0.79	y	15:00	1.007	100.00	n
2,3,7,8-TCDD	6102500	0.83	y	15:01	1.612	2.00	n
37Cl-2,3,7,8-TCDD	6946640	1.00	y	15:01	1.835	2.00	n

Run #3 Filename 14DE10B5D2 S: 5 I: 1
Acquired: 14-DEC-10 15:28:06 Processed: 15-DEC-10 08:46:36
Run: 29OC10B5D2 Analyte: DB225AIR Cal: DB225AIR1214105D2
Comments:
Sample text: ST1214B :10DXN505 CS31414B KSS

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	177466300	0.83	y	15:18	-	100.00	n
13C-2,3,7,8-TCDF	387007000	0.78	y	16:32	2.181	100.00	n
2,3,7,8-TCDF	37792600	0.73	y	16:33	0.977	10.00	n
13C-2,3,7,8-TCDD	186625100	0.81	y	14:59	1.052	100.00	n
2,3,7,8-TCDD	28785200	0.78	y	15:01	1.542	10.00	n
37Cl-2,3,7,8-TCDD	32922600	1.00	y	15:01	1.764	10.00	n

Run #4 Filename 14DE10B5D2 S: 6 I: 1
Acquired: 14-DEC-10 16:04:28 Processed: 15-DEC-10 08:46:36
Run: 29OC10B5D2 Analyte: DB225AIR Cal: DB225AIR1214105D2
Comments:
Sample text: ST1214C :10DXN506 CS41214C KSS

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	182473800	0.78	y	15:18	-	100.00	n
13C-2,3,7,8-TCDF	364998000	0.79	y	16:32	2.000	100.00	n
2,3,7,8-TCDF	147314700	0.71	y	16:32	1.009	40.00	n
13C-2,3,7,8-TCDD	180660100	0.80	y	15:00	0.990	100.00	n
2,3,7,8-TCDD	114557500	0.78	y	15:00	1.585	40.00	n
37Cl-2,3,7,8-TCDD	129089600	1.00	y	15:00	1.786	40.00	n

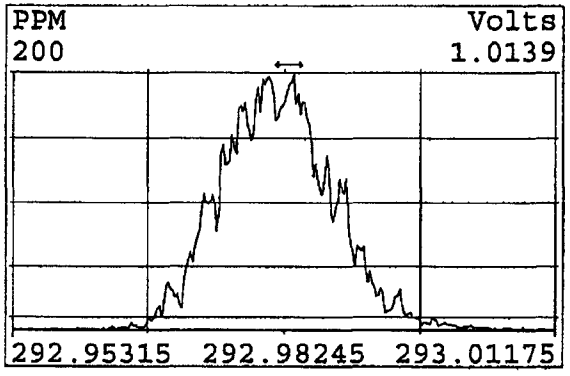
Run #5 Filename 14DE10B5D2 S: 7 I: 1
Acquired: 14-DEC-10 16:40:49 Processed: 15-DEC-10 08:46:36
Run: 29OC10B5D2 Analyte: DB225AIR Cal: DB225AIR1214105D2
Comments:
Sample text: ST1214D :10DXN507 CS51214D KSS

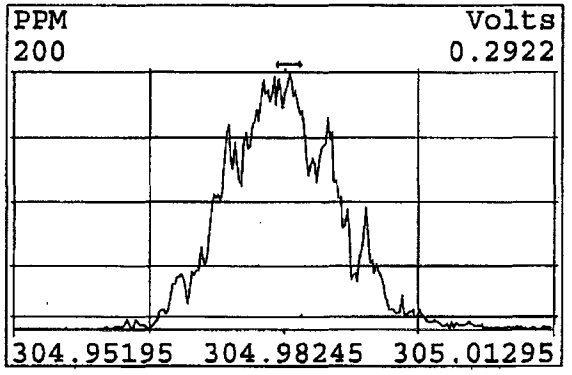
Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	202676800	0.80	y	15:18	-	100.00	n
13C-2,3,7,8-TCDF	393685000	0.80	y	16:31	1.942	100.00	n
2,3,7,8-TCDF	784363000	0.73	y	16:32	0.996	200.00	n
13C-2,3,7,8-TCDD	179577700	0.79	y	14:59	0.886	100.00	n
2,3,7,8-TCDD	533290000	0.79	y	15:00	1.485	200.00	n
37Cl-2,3,7,8-TCDD	620084000	1.00	y	15:00	1.727	200.00	n

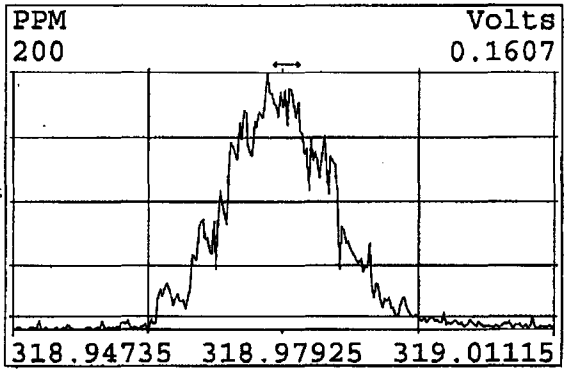
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
14DE10B5D2	1	CP1214	DB-225 3732-11 CPS1214 KSS				1.0000	
14DE10B5D2	2	SB1214	Solvent Blank C-14 SB1214 KSS				1.0000	
14DE10B5D2	3	ST1214	10DXN503 CS11214 KSS				1.0000	
14DE10B5D2	4	ST1214A	10DXN504 CS21214A KSS				1.0000	
14DE10B5D2	5	ST1214B	10DXN505 CS31414B KSS				1.0000	
14DE10B5D2	6	ST1214C	10DXN506 CS41214C KSS				1.0000	
14DE10B5D2	7	ST1214D	10DXN507 CS51214D KSS				1.0000	
14DE10B5D2	8	SB1214A	Solvent Blank C-14 SB1214A KSS				1.0000	
14DE10B5D2	9	ST1214E	10DXN340 Second Source KSS				1.0000	
14DE10B5D2	10	CP1214A	DB-225 3732-11 CPS1214A KSS				1.0000	
14DE10B5D2	11						1.0000	
14DE10B5D2	12						1.0000	
14DE10B5D2	13						1.0000	
14DE10B5D2	14						1.0000	
14DE10B5D2	15						1.0000	
14DE10B5D2	16						1.0000	
14DE10B5D2	17		KSS 12-14-10				1.0000	
14DE10B5D2	18						1.0000	

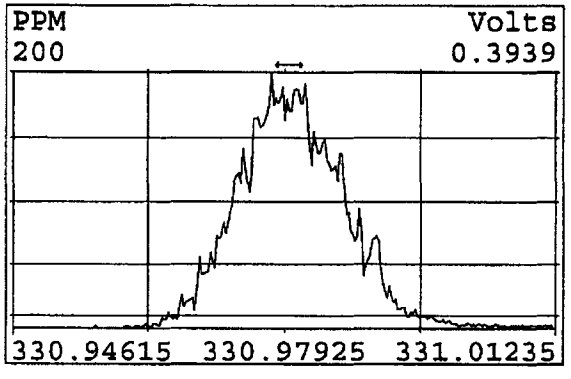
log file Vd
AS
12-15-10

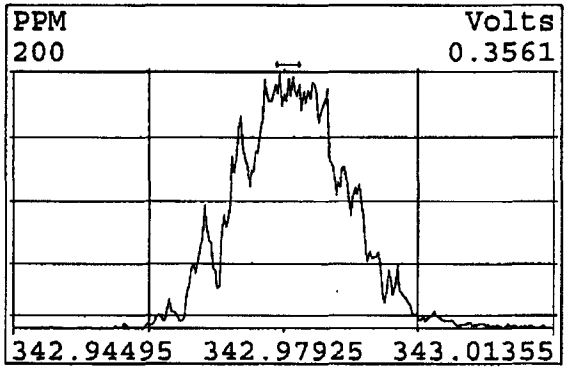
Peak Locate Examination:14-DEC-2010:13:01 File:14DE10B5D2
Experiment:DB225RES Function:1 Reference:PFK

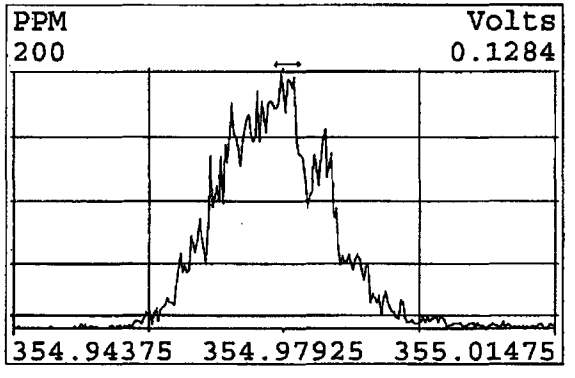


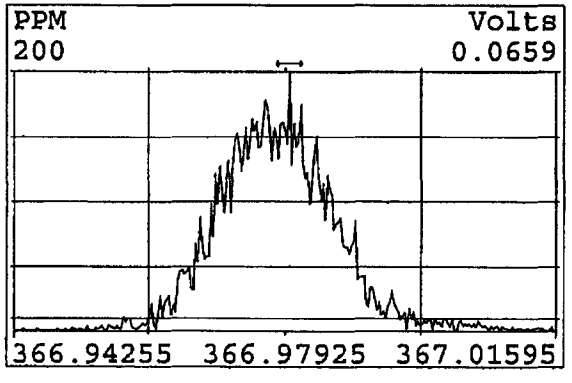


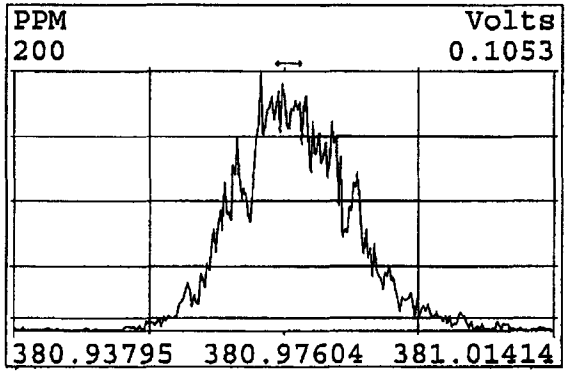




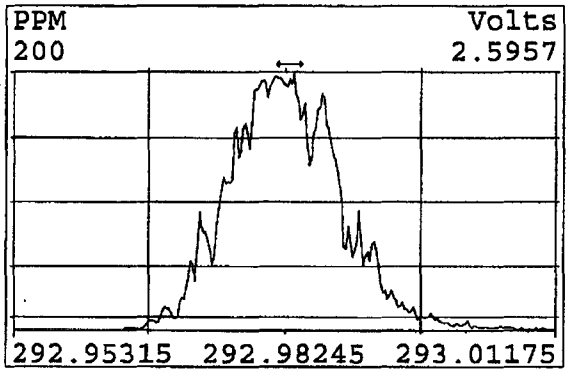


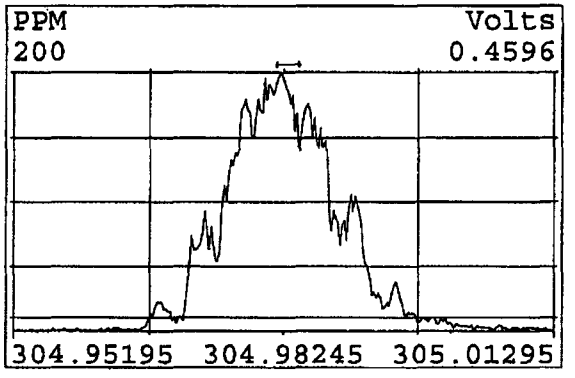


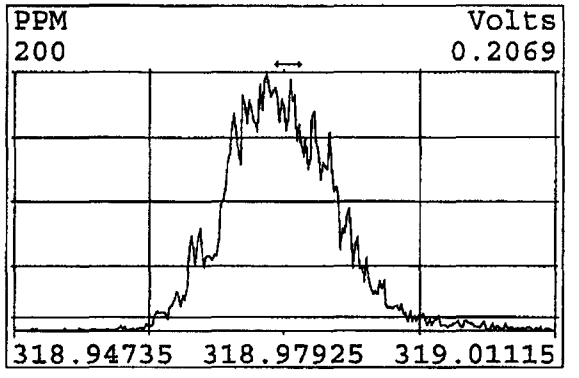


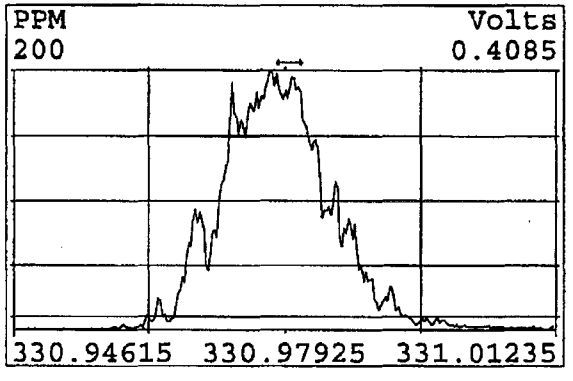


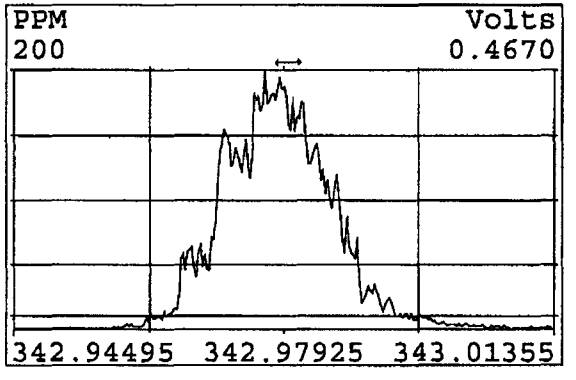
Peak Locate Examination:14-DEC-2010:19:44 File:RESCHK14DE10B5D2
Experiment:DB225RES Function:1 Reference:PFK

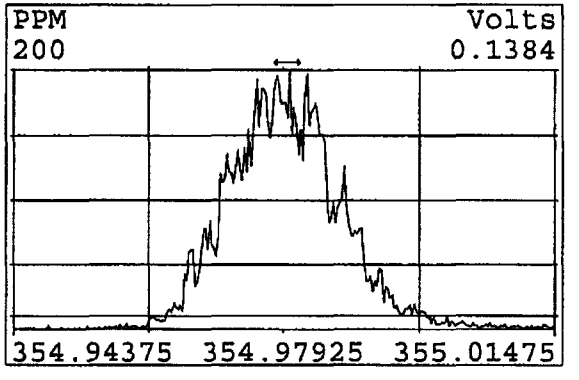


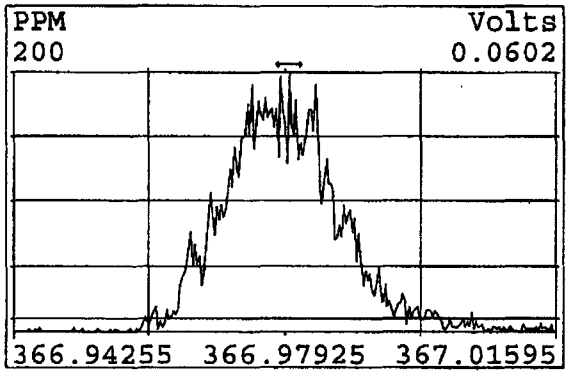


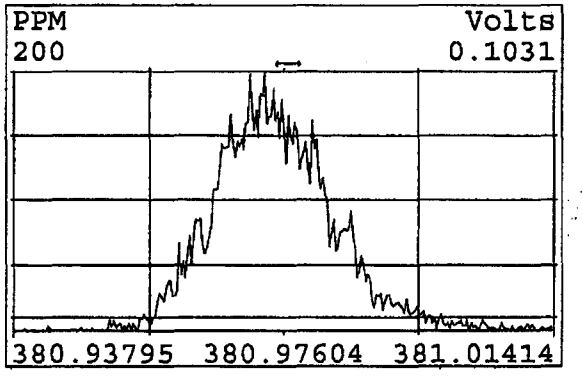


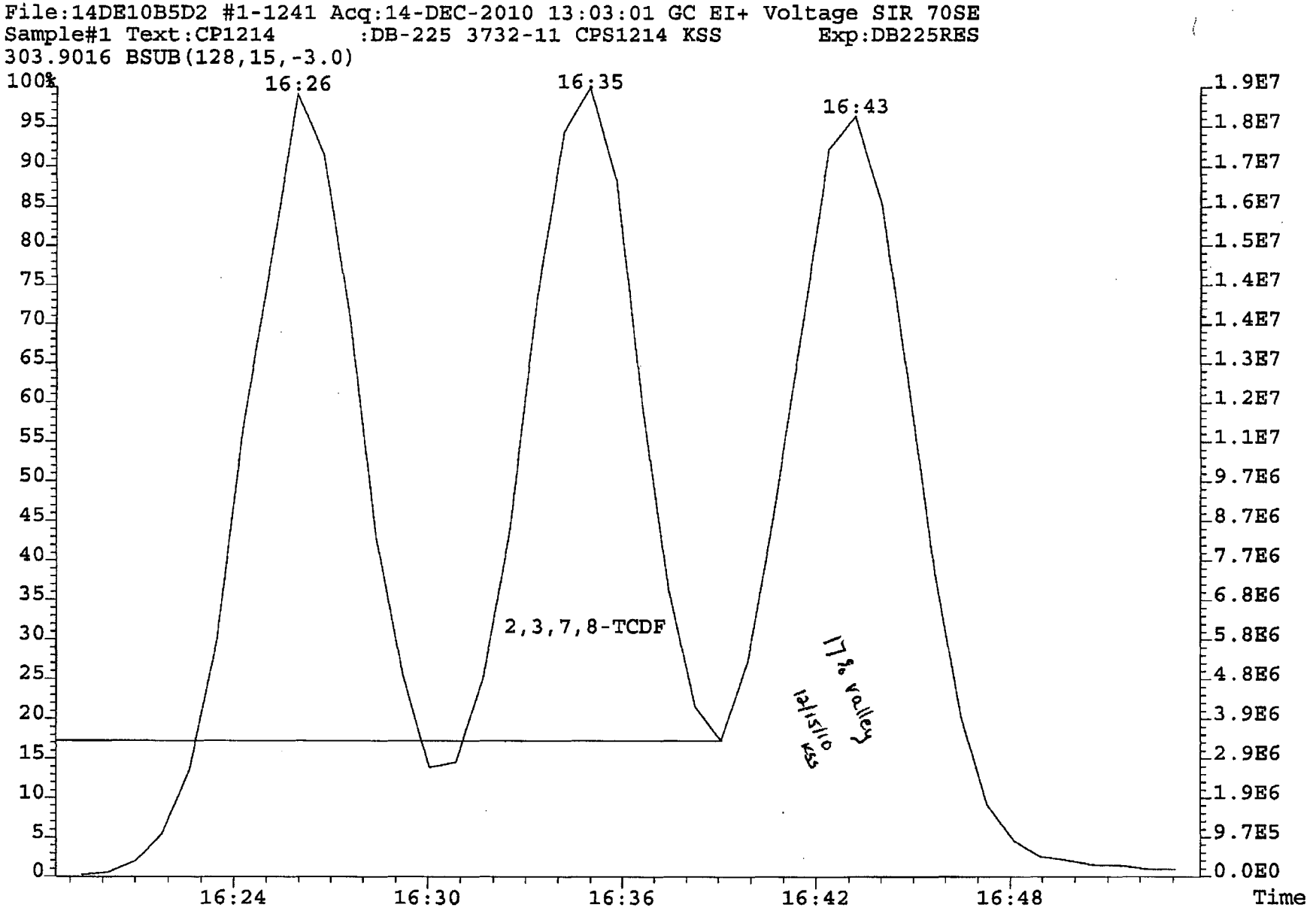


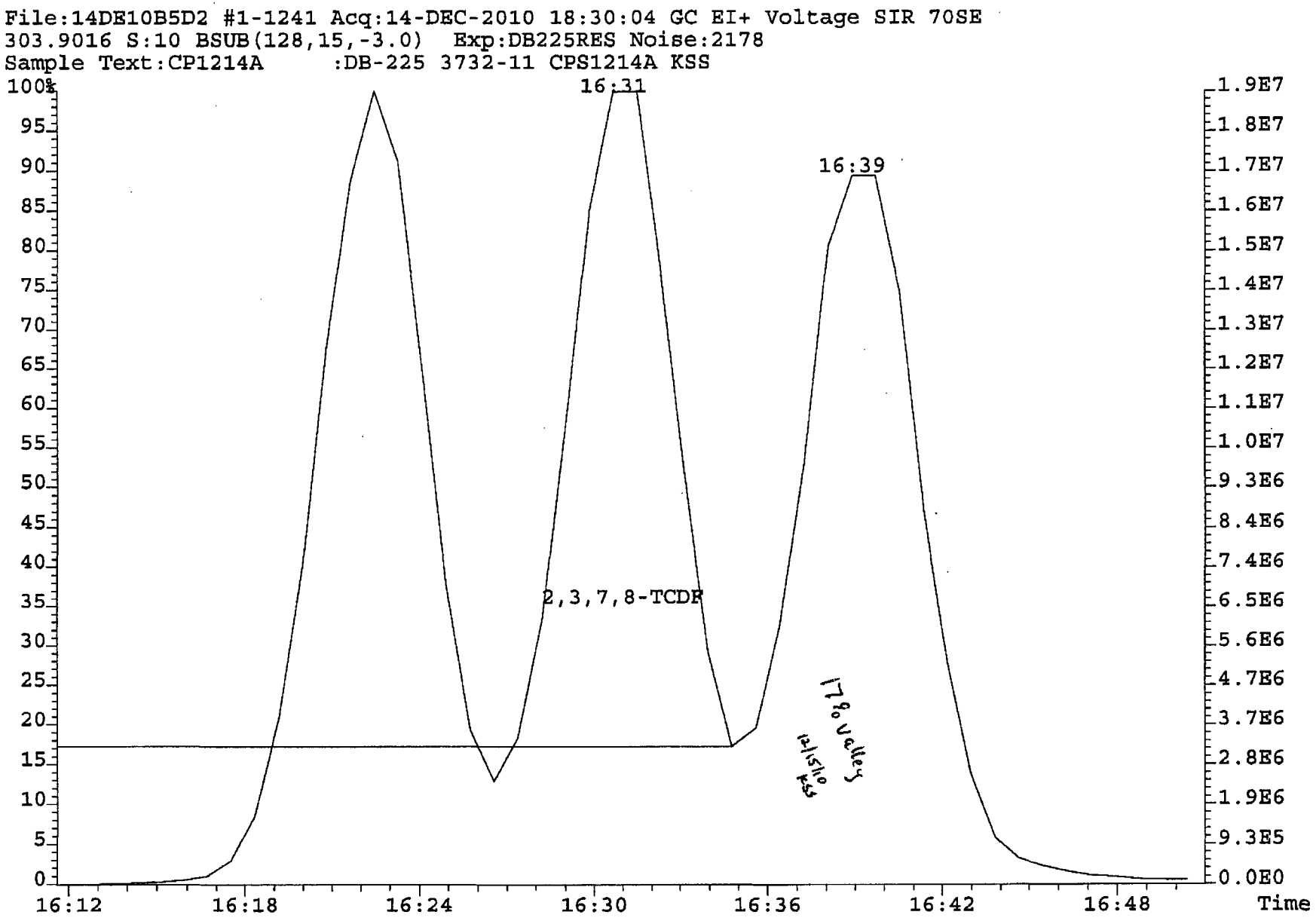









File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 13:03:01 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP1214 :DB-225 3732-11 CPS1214 KSS Exp:DB225RES
303.9016 BSUB(128,15,-3.0)
16:26
16:35
16:43
2,3,7,8-TCDF
17% valley
100%
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
1.9E7
1.8E7
1.7E7
1.6E7
1.5E7
1.4E7
1.4E7
1.3E7
1.2E7
1.1E7
9.7E6
8.7E6
7.7E6
6.8E6
5.8E6
4.8E6
3.9E6
2.9E6
1.9E6
9.7E5
0.0E0
16:24
16:30
16:36
16:42
16:48
Time

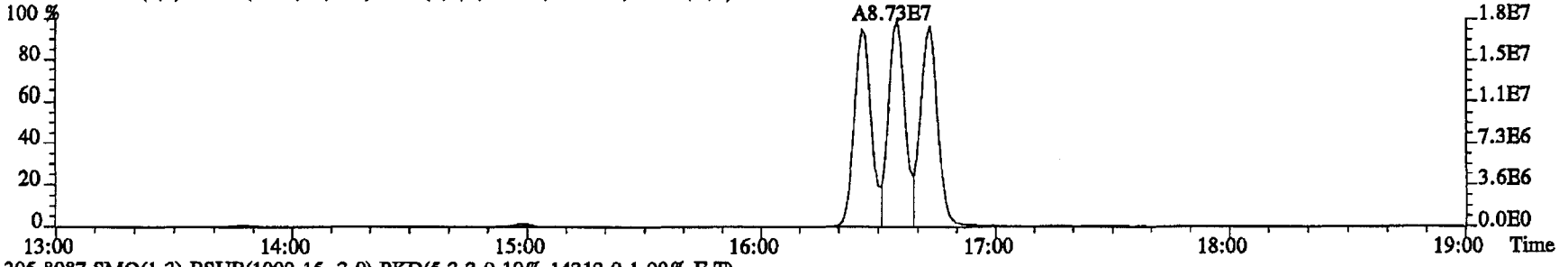

File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 18:30:04 GC EI+ Voltage SIR 70SE
303.9016 S:10 BSUB(128,15,-3.0) Exp:DB225RES Noise:2178
Sample Text:CP1214A :DB-225 3732-11 CPS1214A KSS
16:31
16:39
2,3,7,8-TCDF
100%
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
1.9E7
1.8E7
1.7E7
1.6E7
1.5E7
1.4E7
1.3E7
1.2E7
1.1E7
1.0E7
9.3E6
8.4E6
7.4E6
6.5E6
5.6E6
4.7E6
3.7E6
2.8E6
1.9E6
9.3E5
0.0E0
16:12
16:18
16:24
16:30
16:36
16:42
16:48
Time

Run text: ST1214E Sample text: ST1214E :10DXN340 Second Source KSS
Run #6 Filename: 14DE10B5D2 S: 9 I: 1 Results: 14DE10B5D2DB225
Acquired: 14-DEC-10 17:53:39 Processed: 14-DEC-10 18:26:25
Run: 14DE10B5D2 Analyte: DB225 Cal: DB2251214105D2
Factor 1: 800.000 Factor 2: 20.000 Sample size: 1.000000 spiked @ 200 pg

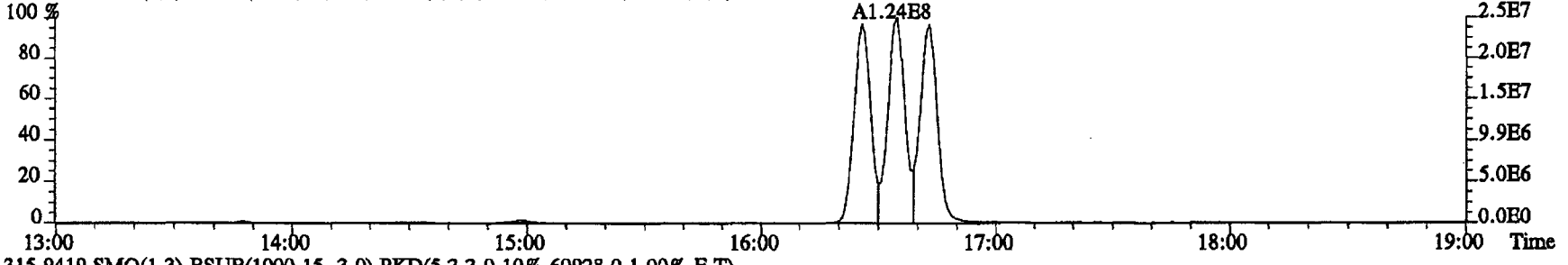
Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	168736500	0.79	y	15:15	-	88.92	-	-	n
13C-2,3,7,8-TCDF	382850000	0.80	y	16:29	2.02	2243.55	10.19	112.2	n
2,3,7,8-TCDF	36609000	0.72	y	16:29	1.01	189.00 (94.5 %R)	1.72	-	n
13C-2,3,7,8-TCDD	166332300	0.81	y	14:57	0.99	2001.34	9.02	100.1	n
2,3,7,8-TCDD	24991900	0.78	y	14:57	1.56	192.37 (96.2 %R)	2.86	-	n
37Cl-2,3,7,8-TCDD	57132800	1.00	y	14:57	1.75	387.28	4.57	96.8	n

12/15/10 KSS

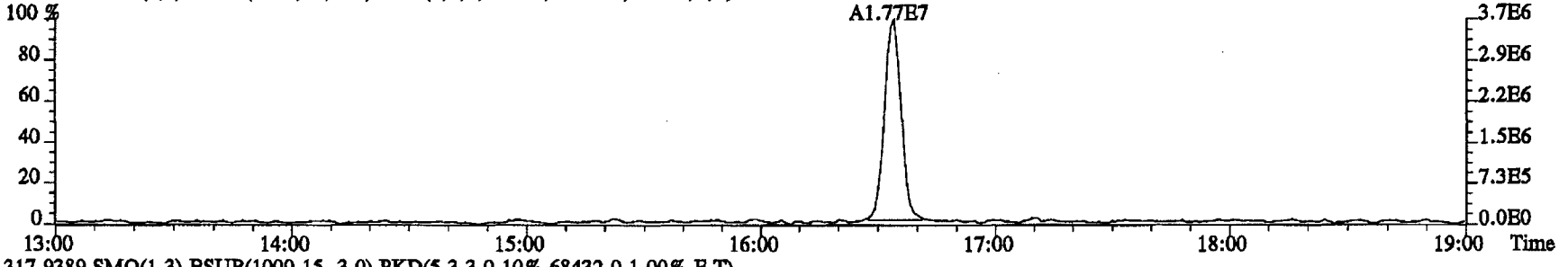
File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 13:03:01 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP1214 :DB-225 3732-11 CPS1214 KSS Exp:DB225RES
303.9016 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10424.0,1.00%,F,T)



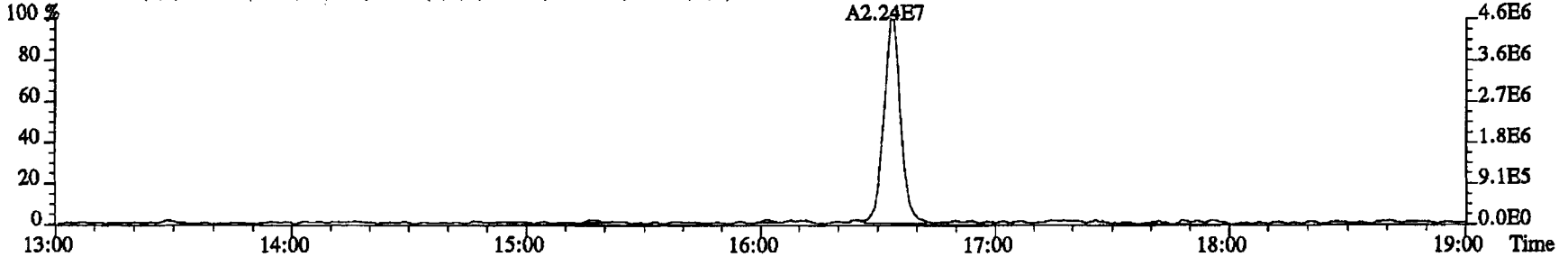
305.8987 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14312.0,1.00%,F,T)

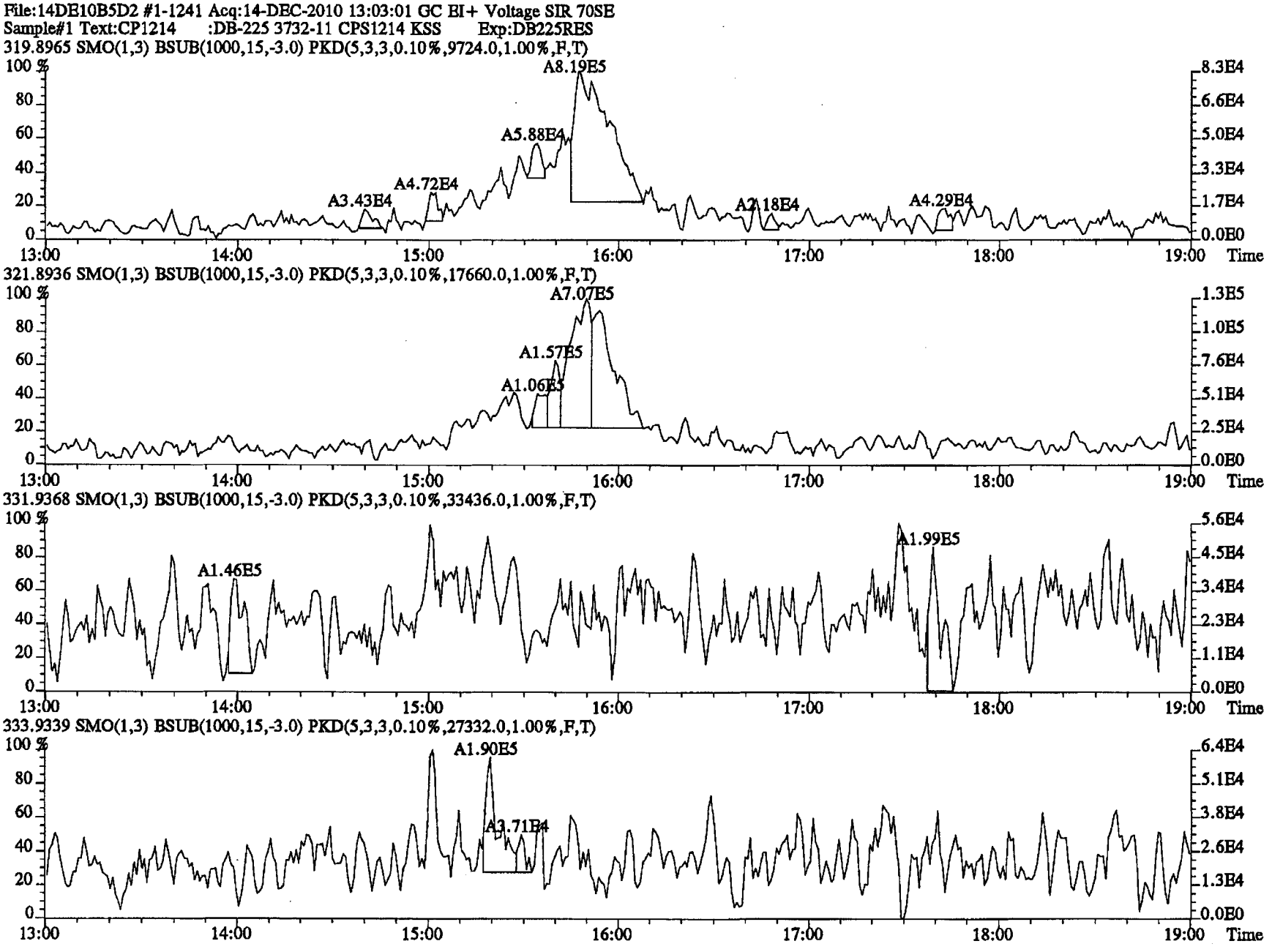


315.9419 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,60928.0,1.00%,F,T)

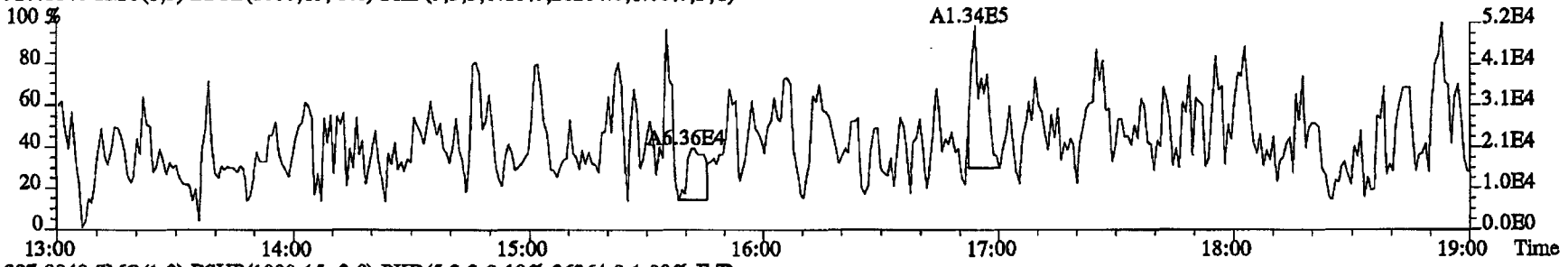


317.9389 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,68432.0,1.00%,F,T)

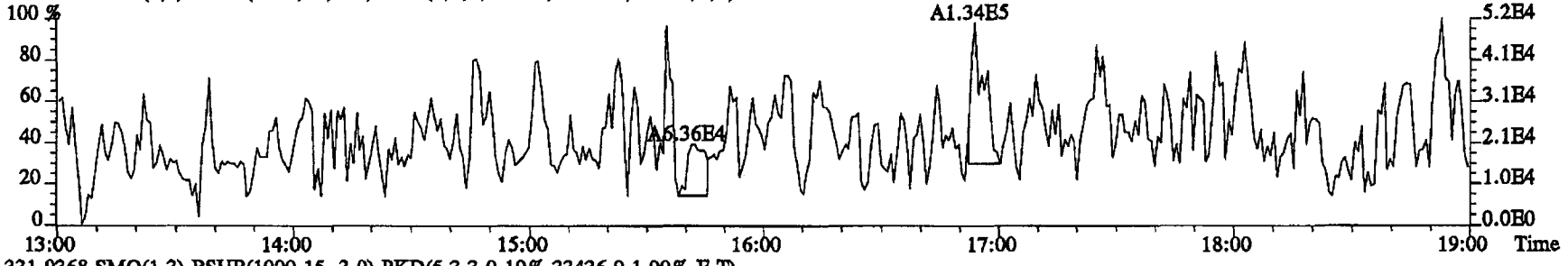



File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 13:03:01 GC BI+ Voltage SIR 70SE
Sample#1 Text:CP1214 :DB-225 3732-11 CPS1214 KSS Exp:DB225RES
319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9724.0,1.00%,F,T)
A8.19E5
A5.88E4
A4.72E4
A3.43E4
A2.18E4
A4.29E4
321.8936 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17660.0,1.00%,F,T)
A7.07E5
A1.57E5
A1.06E5
331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,33436.0,1.00%,F,T)
A1.46E5
A1.99E5
333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27332.0,1.00%,F,T)
A1.90E5
A3.71E4
100 %
80
60
40
20
0
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time
8.3E4
6.6E4
5.0E4
3.3E4
1.7E4
0.0E0
1.3E5
1.0E5
7.6E4
5.1E4
2.5E4
5.6E4
4.5E4
3.4E4
2.3E4
1.1E4
6.4E4
5.1E4
3.8E4
2.6E4
1.3E4

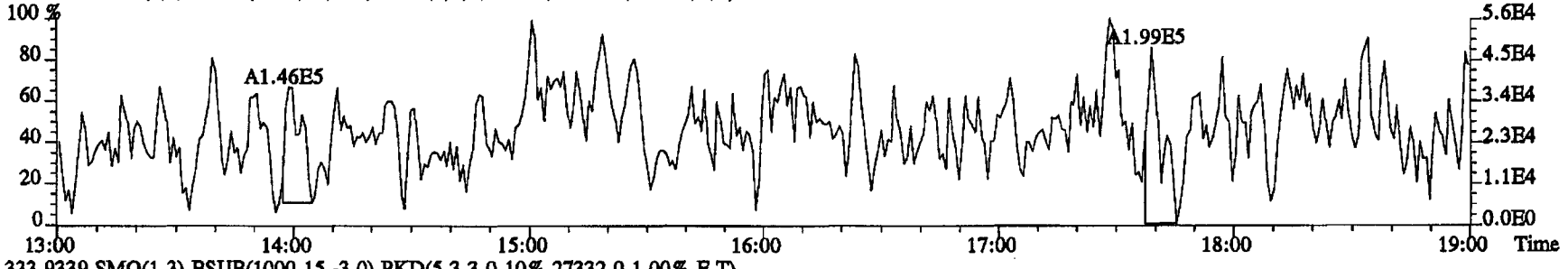
File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 13:03:01 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP1214 :DB-225 3732-11 CPS1214 KSS Exp:DB225RES
327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,26264.0,1.00%,F,T)



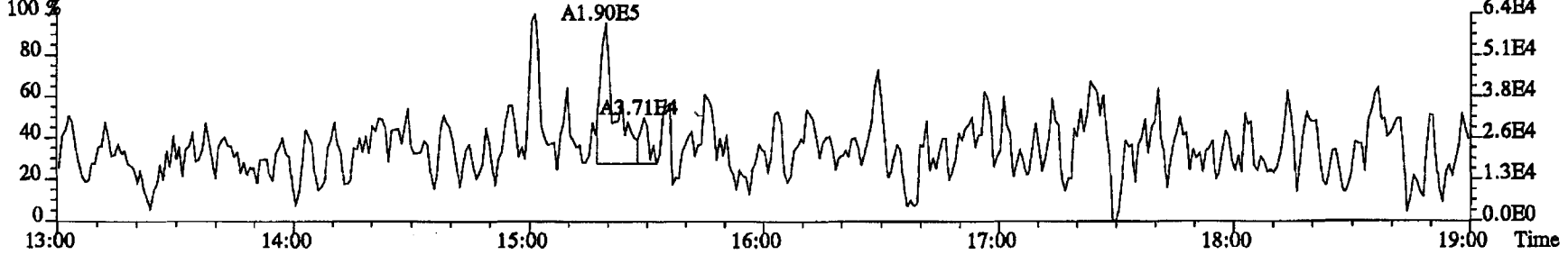
327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,26264.0,1.00%,F,T)

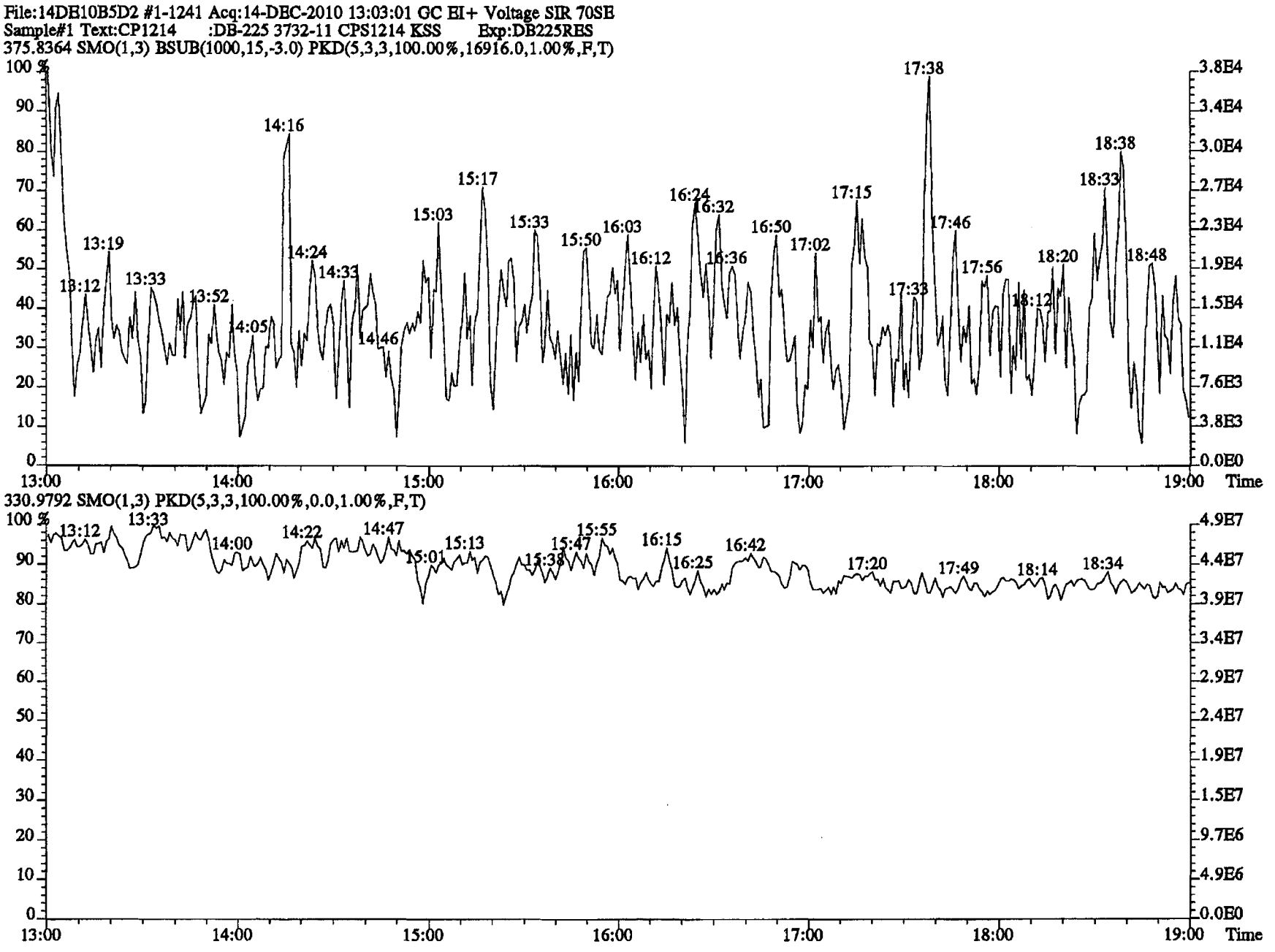


331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,33436.0,1.00%,F,T)

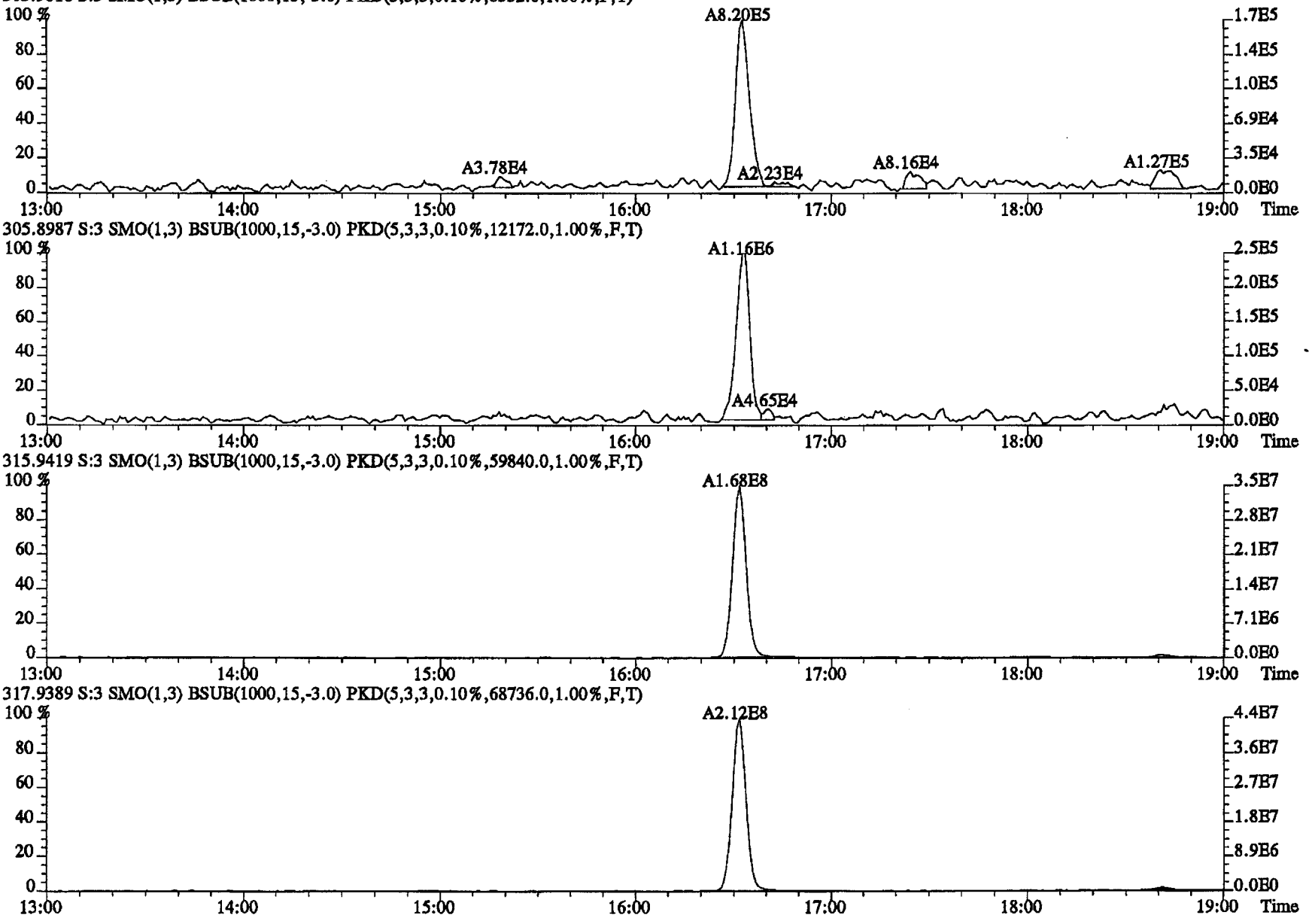


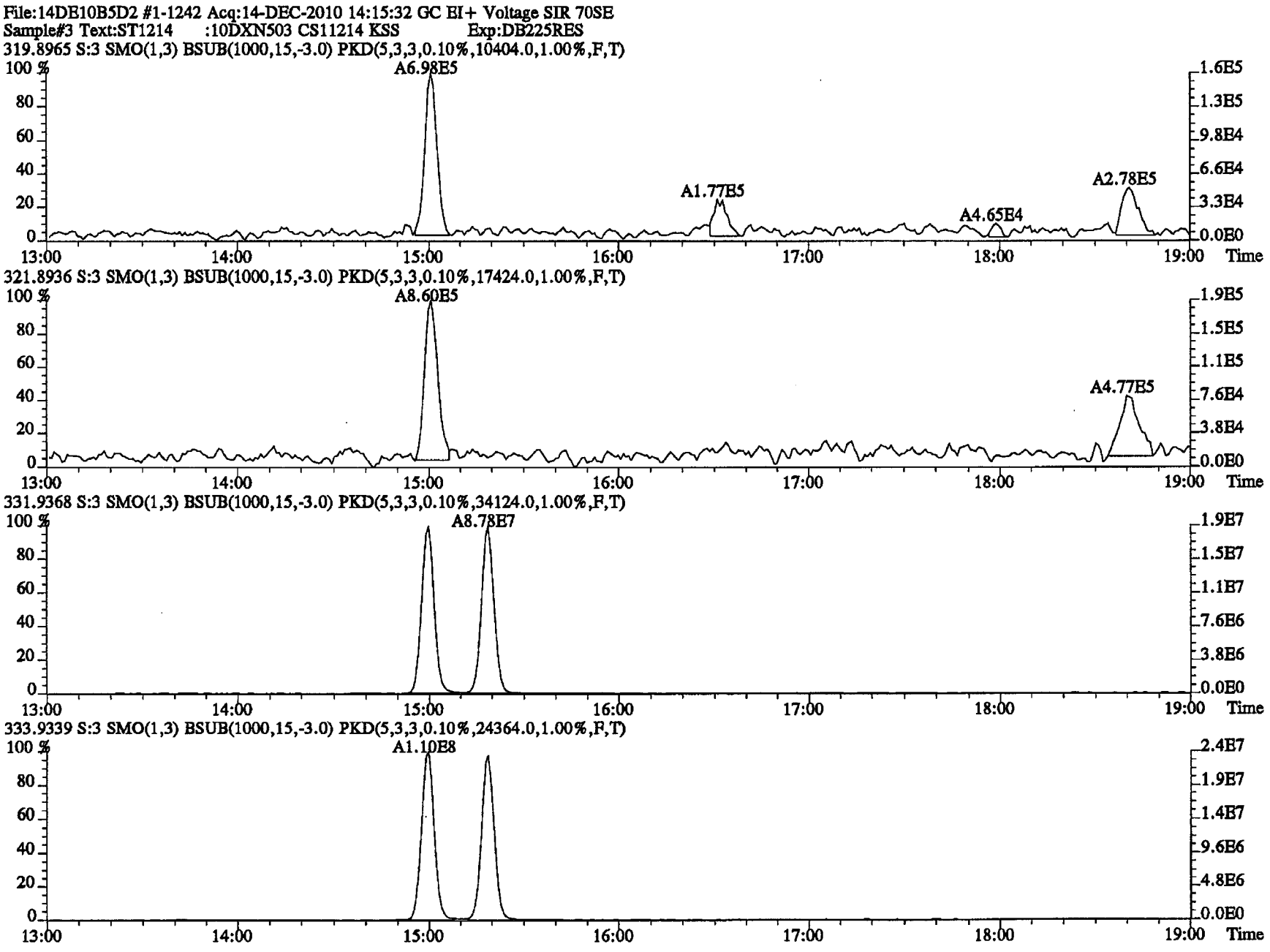
333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27332.0,1.00%,F,T)



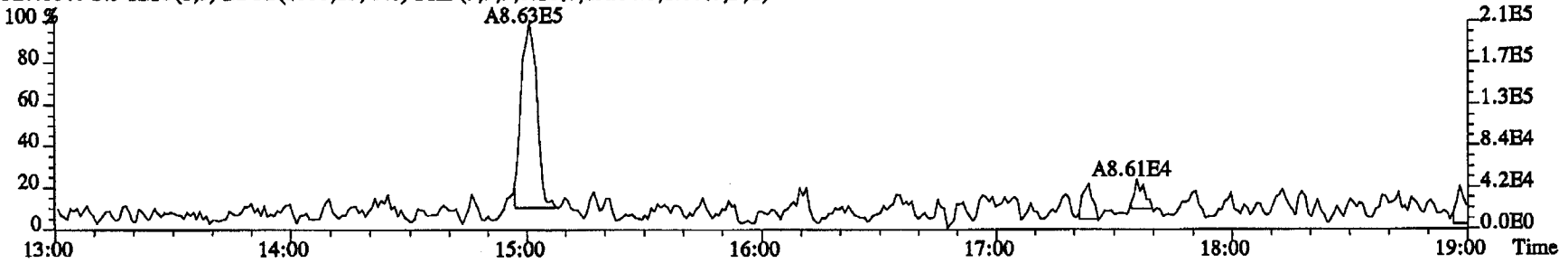

File:14DB10B5D2 #1-1241 Acq:14-DEC-2010 13:03:01 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP1214 :DB-225 3732-11 CPS1214 KSS Exp:DB225RES
375.8364 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,16916.0,1.00%,F,T)
100 %
90
80
70
60
50
40
30
20
10
0
13:12
13:19
13:33
13:52
14:05
14:16
14:24
14:33
14:46
15:03
15:17
15:33
15:50
16:03
16:12
16:24
16:32
16:36
16:50
17:02
17:15
17:33
17:38
17:46
17:56
18:12
18:20
18:33
18:38
18:48
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time
3.8E4
3.4E4
3.0E4
2.7E4
2.3E4
1.9E4
1.5E4
1.1E4
7.6E3
3.8E3
0.0E0
330.9792 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
100 %
90
80
70
60
50
40
30
20
10
0
13:12
13:33
14:00
14:22
14:47
15:01
15:13
15:38
15:47
15:55
16:15
16:25
16:42
17:20
17:49
18:14
18:34
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time
4.9E7
4.4E7
3.9E7
3.4E7
2.9E7
2.4E7
1.9E7
1.5E7
9.7E6
4.9E6
0.0E0

File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 14:15:32 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST1214 :10DXN503 CS11214 KSS Exp:DB225RES

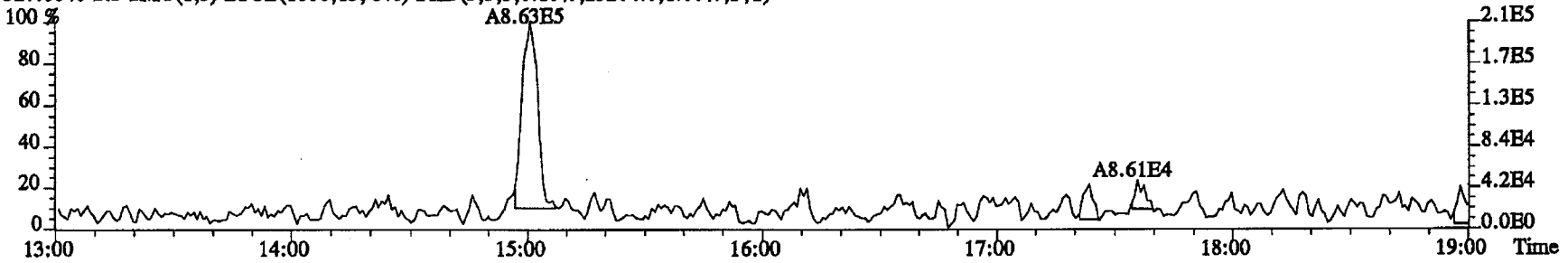



File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 14:15:32 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST1214 :10DXN503 CS11214 KSS Exp:DB225RES
319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10404.0,1.00%,F,T)
A6.98E5
A1.77E5
A4.65E4
A2.78E5
321.8936 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17424.0,1.00%,F,T)
A8.60E5
A4.77E5
331.9368 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,34124.0,1.00%,F,T)
A8.78E7
333.9339 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24364.0,1.00%,F,T)
A1.10E8
100 %
80
60
40
20
0
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time
1.6E5
1.3E5
9.8E4
6.6E4
3.3E4
0.0E0
1.9E5
1.5E5
1.1E5
7.6E4
3.8E4
0.0E0
1.9E7
1.5E7
1.1E7
7.6E6
3.8E6
0.0E0
2.4E7
1.9E7
1.4E7
9.6E6
4.8E6
0.0E0

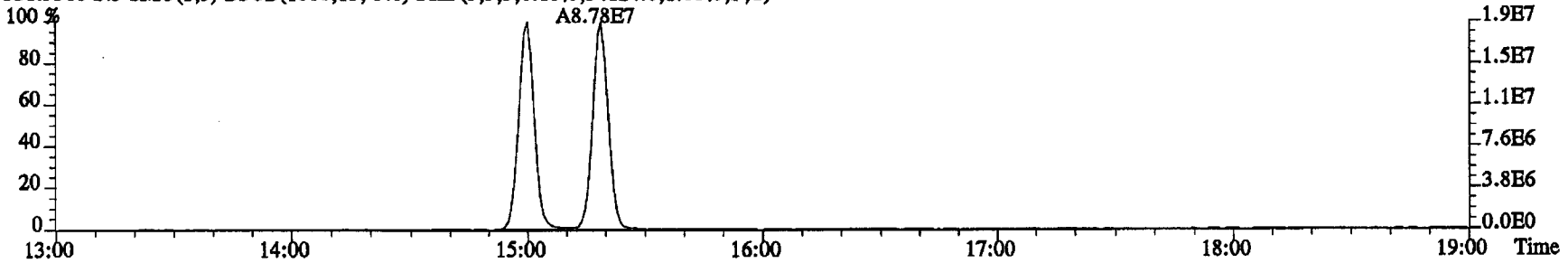
File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 14:15:32 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST1214 :10DXN503 CS11214 KSS Exp:DB225RES
327.8840 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23204.0,1.00%,F,T)



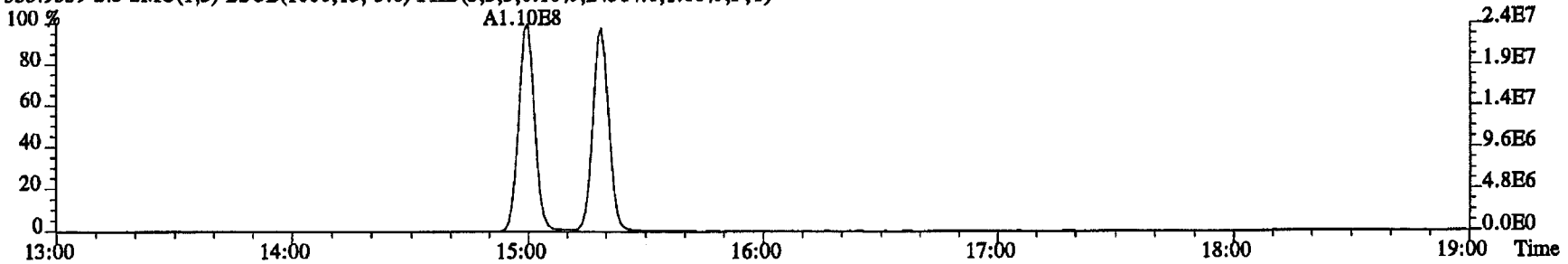
327.8840 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23204.0,1.00%,F,T)

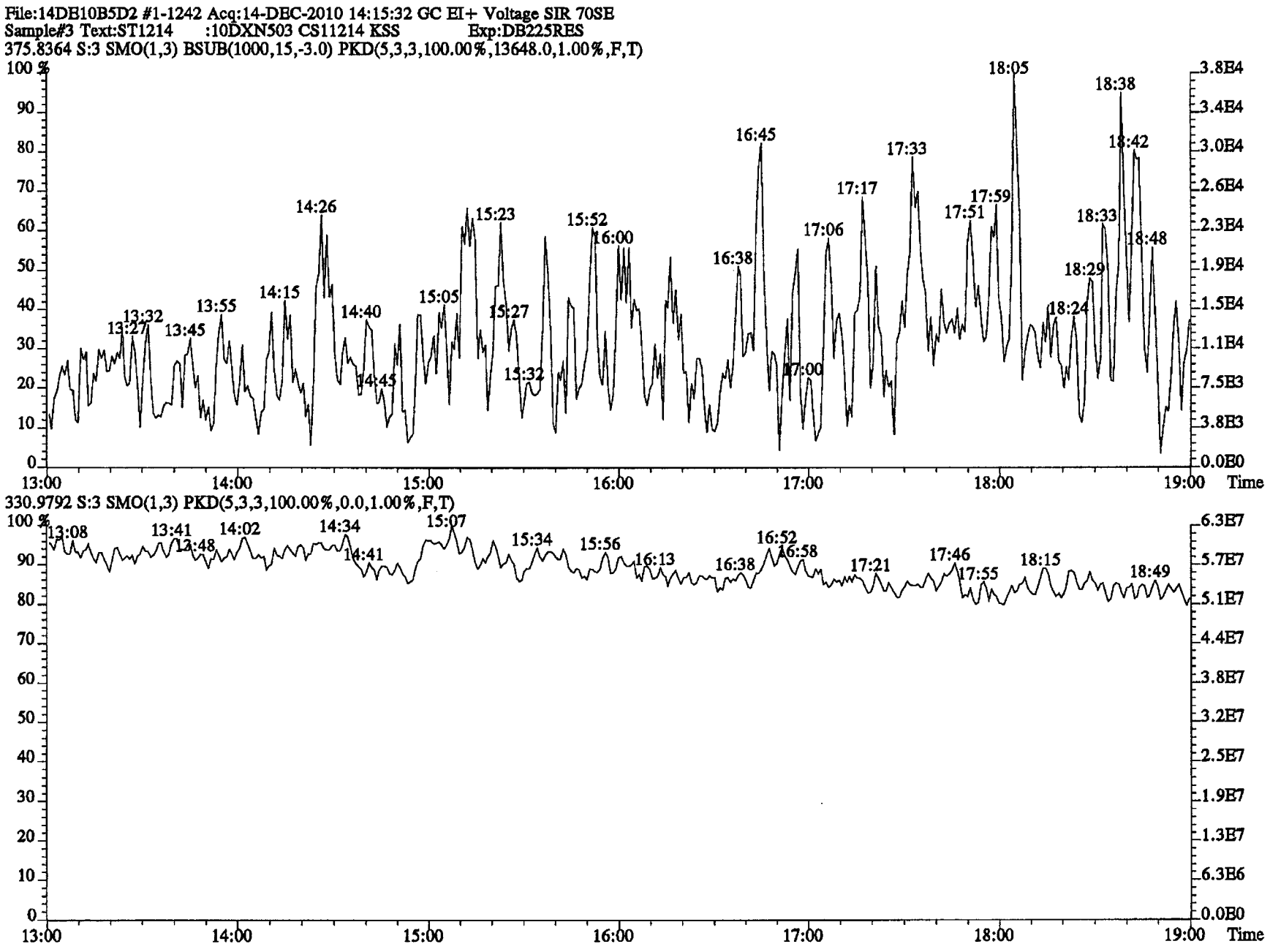


331.9368 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,34124.0,1.00%,F,T)

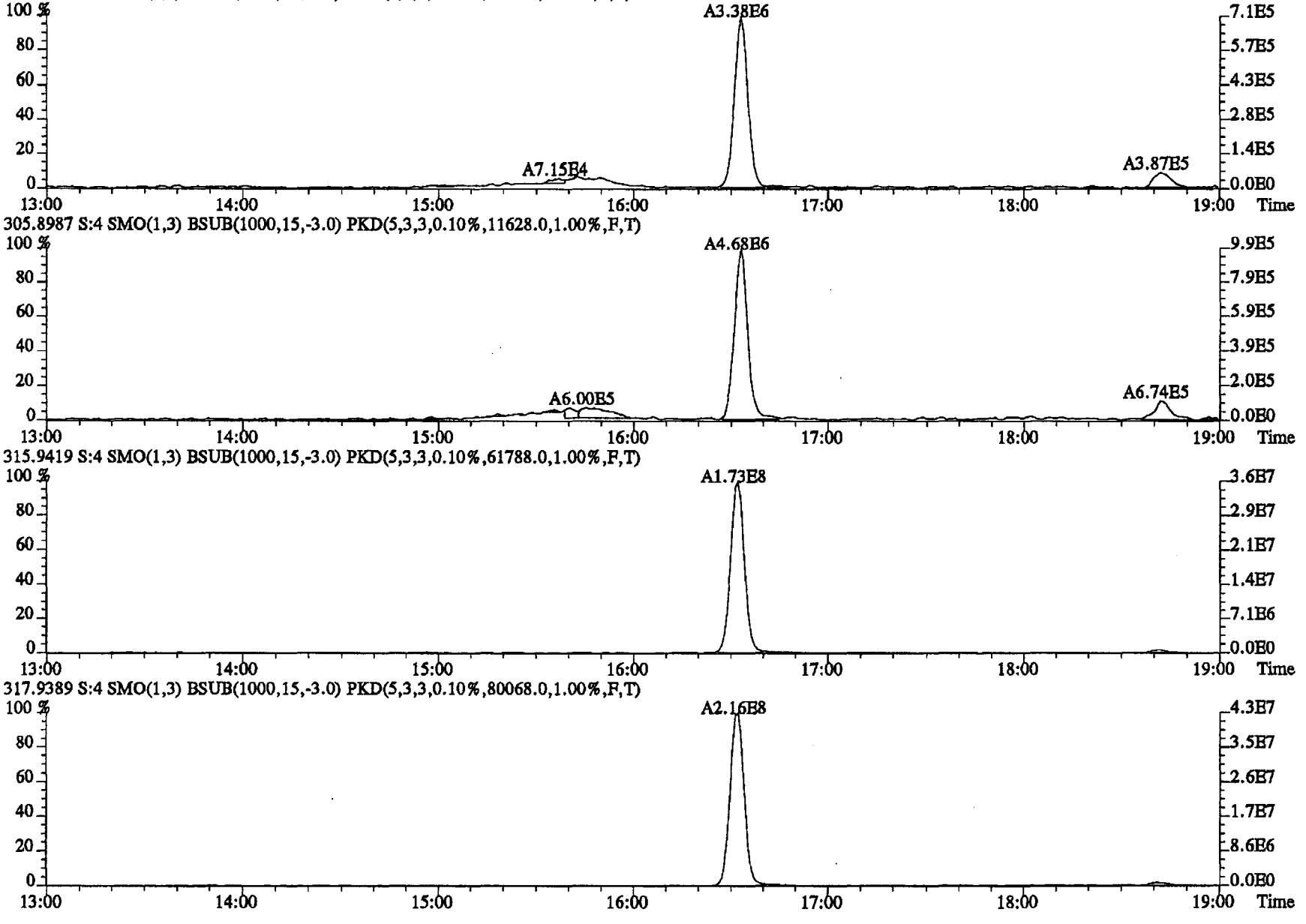


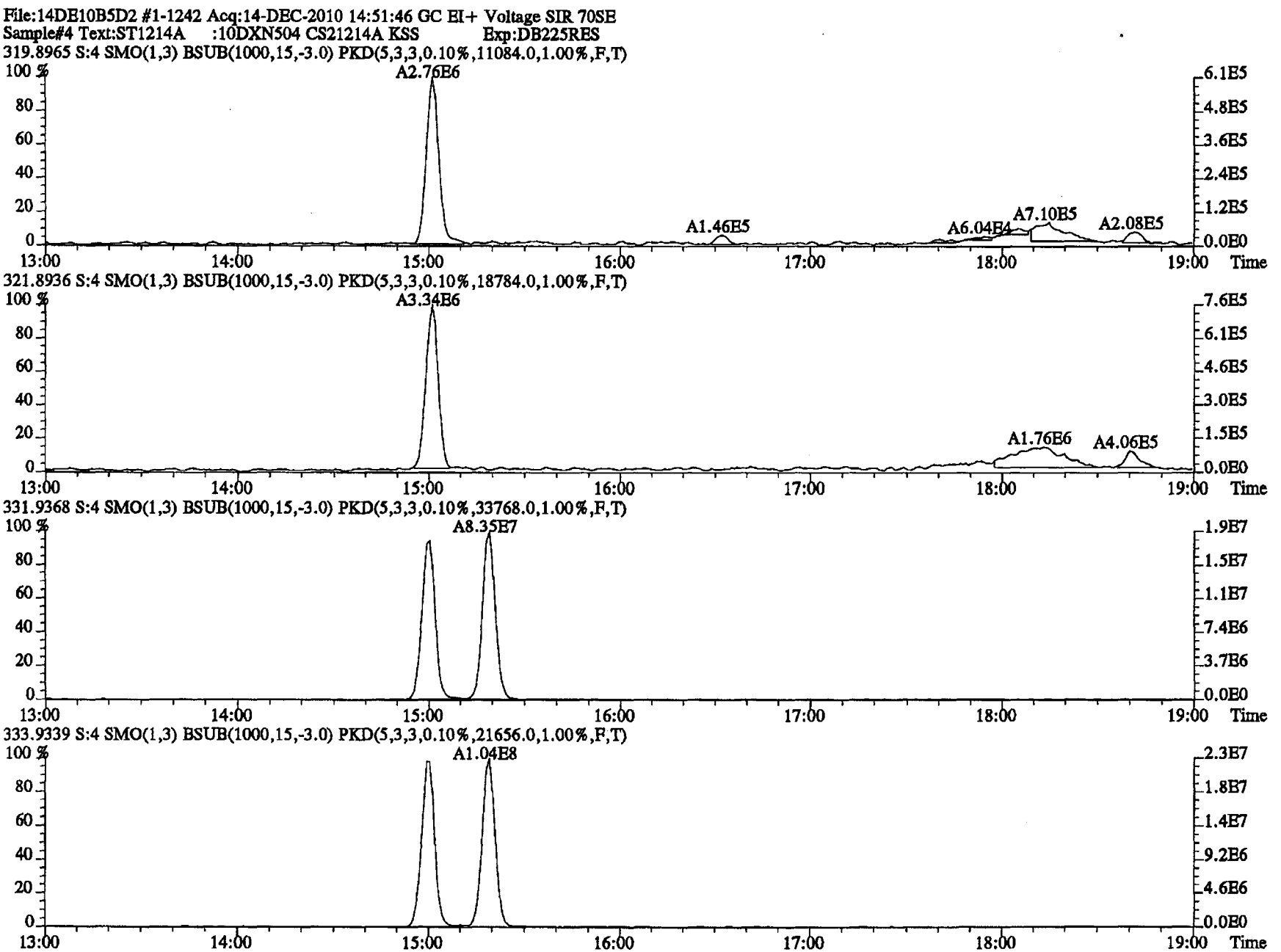
333.9339 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24364.0,1.00%,F,T)



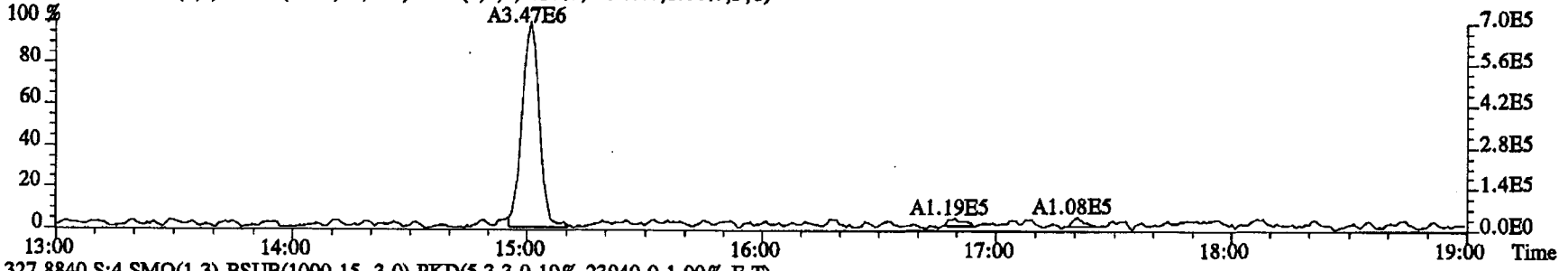

File:14DB10B5D2 #1-1242 Acq:14-DEC-2010 14:15:32 GC EI+ Voltage SIR 70SE
Sample#3 Text:ST1214 :10DXN503 CS11214 KSS Exp:DB225RES
375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,13648.0,1.00%,F,T)
100 %
90
80
70
60
50
40
30
20
10
0
3.8E4
3.4E4
3.0E4
2.6E4
2.3E4
1.9E4
1.5E4
1.1E4
7.5E3
3.8E3
0.0E0
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time
13:27
13:32
13:45
13:55
14:15
14:26
14:40
14:45
15:05
15:23
15:27
15:32
15:52
16:00
16:38
16:45
17:00
17:06
17:17
17:33
17:51
17:59
18:05
18:24
18:29
18:33
18:38
18:42
18:48
330.9792 S:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
100 %
90
80
70
60
50
40
30
20
10
0
6.3E7
5.7E7
5.1E7
4.4E7
3.8E7
3.2E7
2.5E7
1.9E7
1.3E7
6.3E6
0.0E0
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time
13:08
13:41
13:48
14:02
14:34
14:41
15:07
15:34
15:56
16:13
16:38
16:52
16:58
17:21
17:46
17:55
18:15
18:49

File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 14:51:46 GC EI+ Voltage SIR 70SE
Sample#4 Text:ST1214A :10DXN504 CS21214A KSS Exp:DB225RES

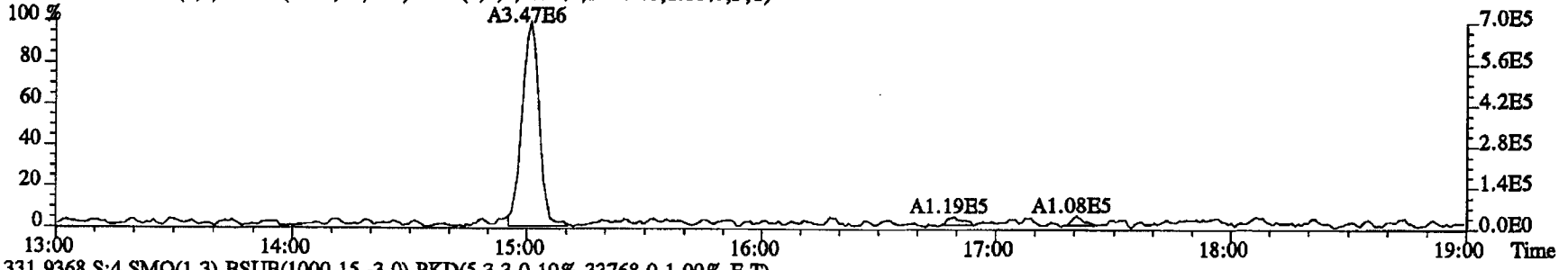



File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 14:51:46 GC EI+ Voltage SIR 70SE
Sample#4 Text:ST1214A :10DXN504 CS21214A KSS Exp:DB225RES
319.8965 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11084.0,1.00%,F,T)
A2.76E6
A1.46E5
A6.04E4
A7.10E5
A2.08E5
321.8936 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18784.0,1.00%,F,T)
A3.34E6
A1.76E6
A4.06E5
331.9368 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,33768.0,1.00%,F,T)
A8.35E7
333.9339 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21656.0,1.00%,F,T)
A1.04E8
100 %
80
60
40
20
0
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time
6.1E5
4.8E5
3.6E5
2.4E5
1.2E5
0.0E0
7.6E5
6.1E5
4.6E5
3.0E5
1.5E5
1.9E7
1.5E7
1.1E7
7.4E6
3.7E6
2.3E7
1.8E7
1.4E7
9.2E6
4.6E6

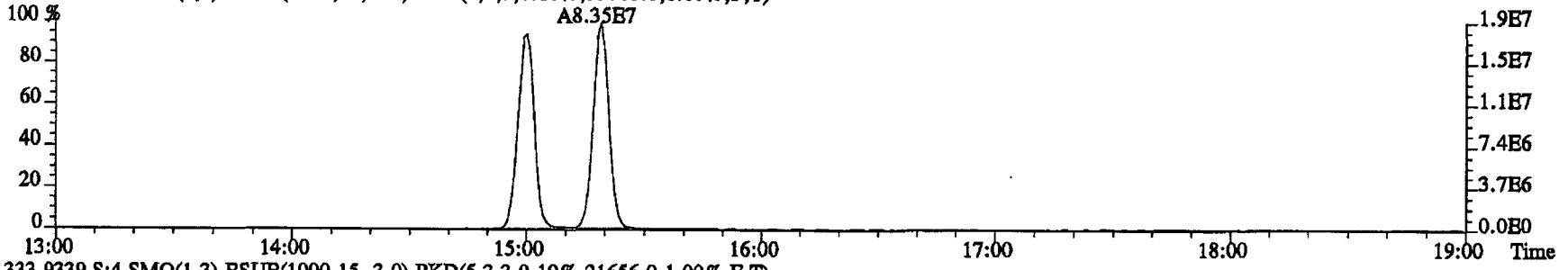
File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 14:51:46 GC EI+ Voltage SIR 70SE
Sample#4 Text:ST1214A :10DXN504 CS21214A KSS Exp:DB225RES
327.8840 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23940.0,1.00%,F,T)



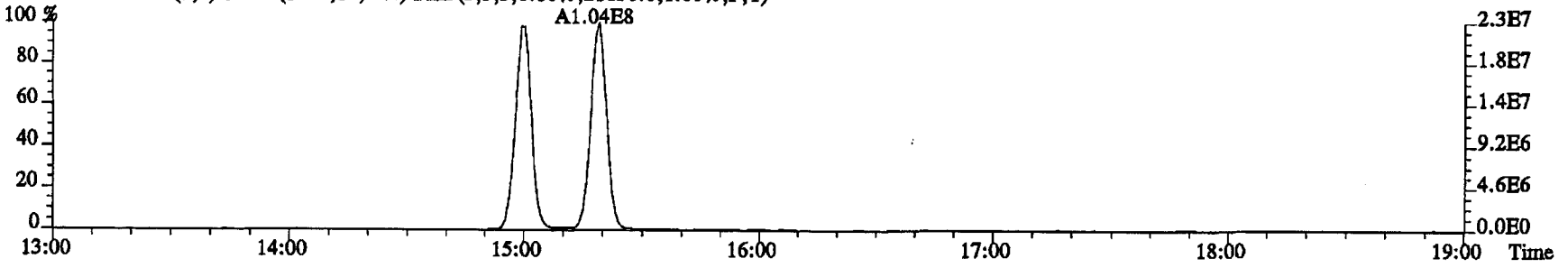
327.8840 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23940.0,1.00%,F,T)



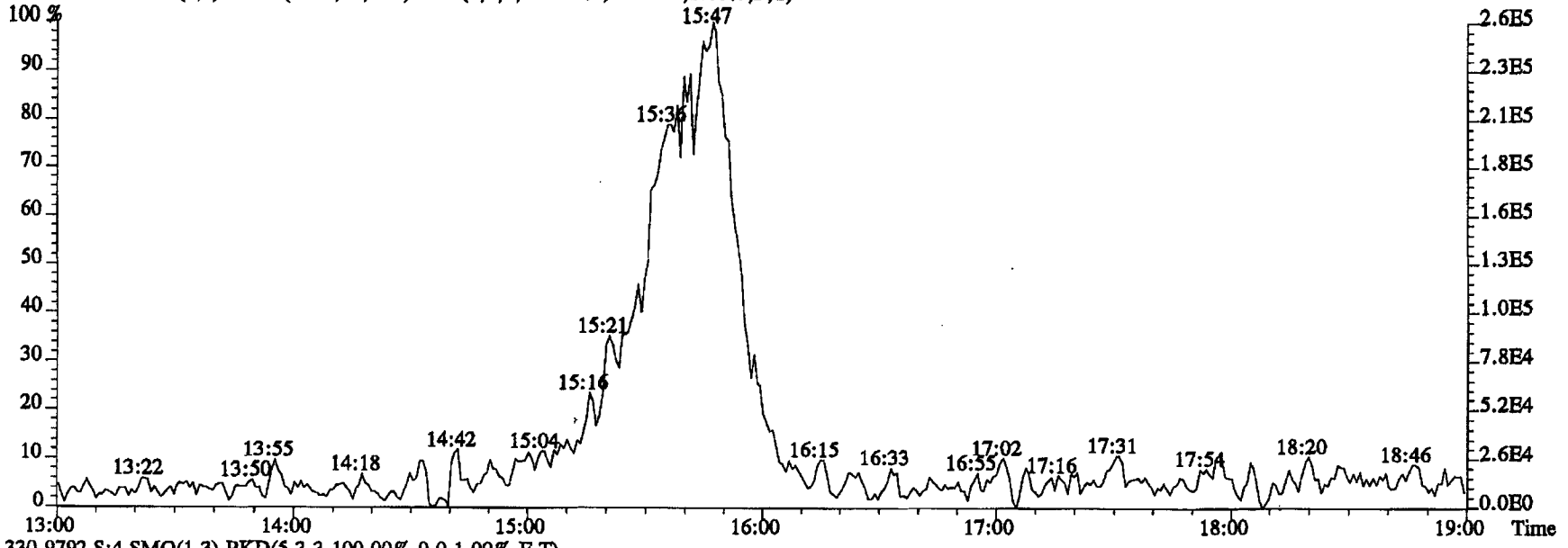
331.9368 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,33768.0,1.00%,F,T)



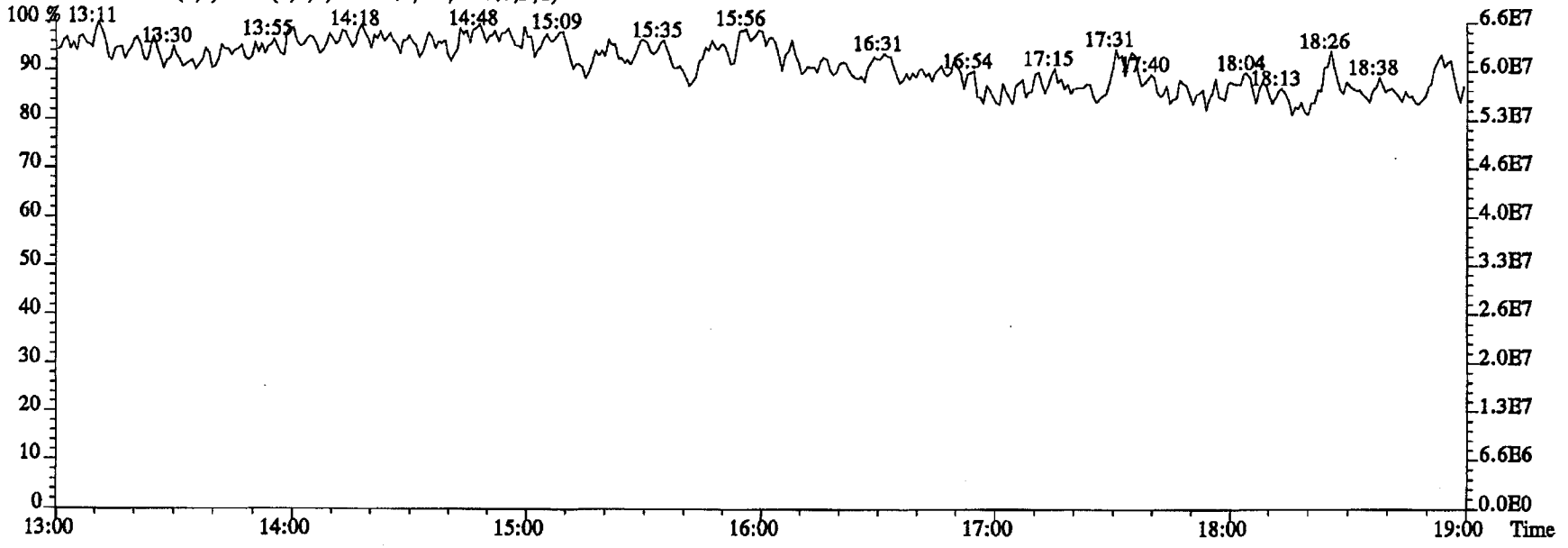
333.9339 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21656.0,1.00%,F,T)



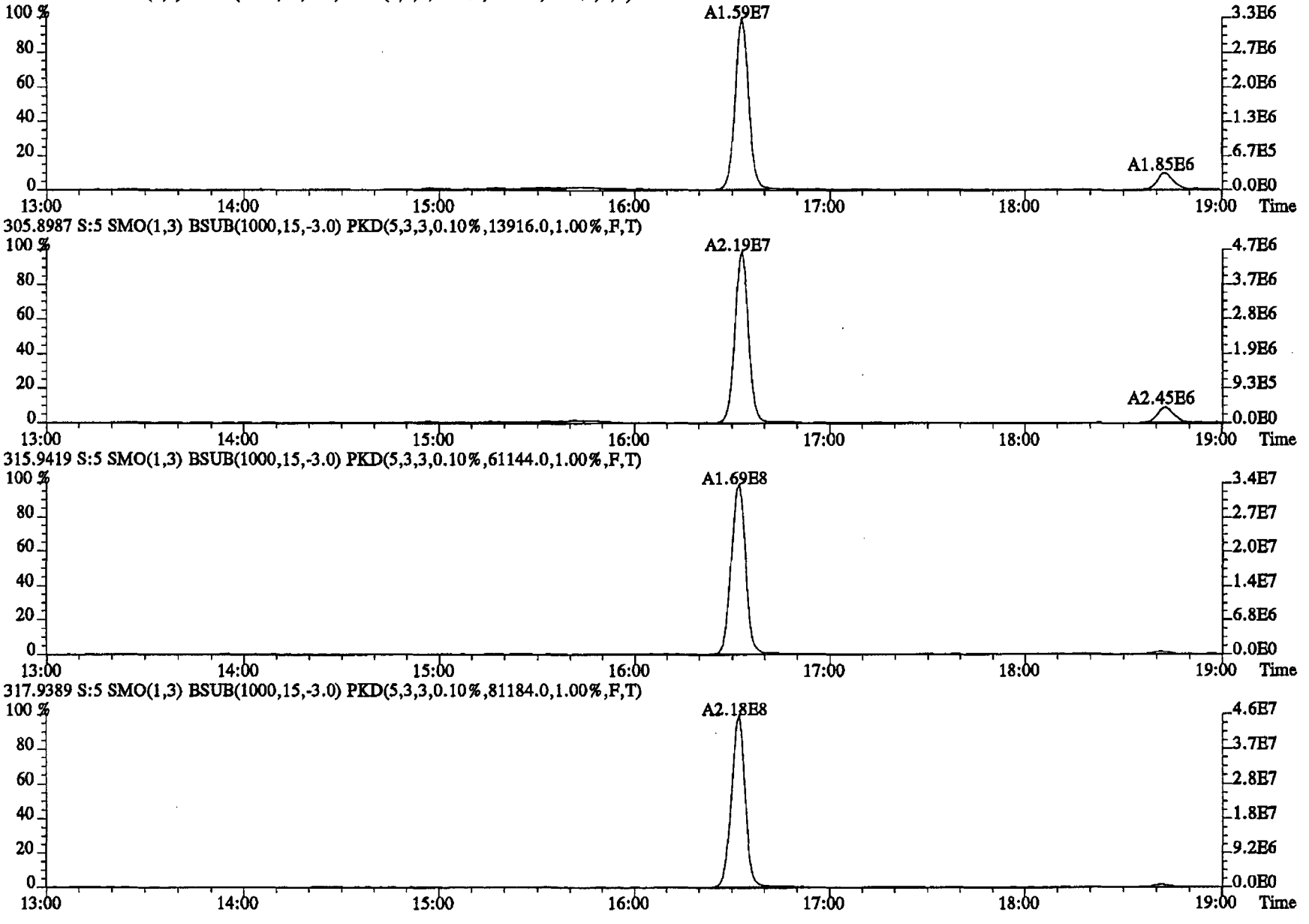
File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 14:51:46 GC EI+ Voltage SIR 70SE
Sample#4 Text:ST1214A :10DXN504 CS21214A KSS Exp:DB225RES
375.8364 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,14208.0,1.00%,F,T)



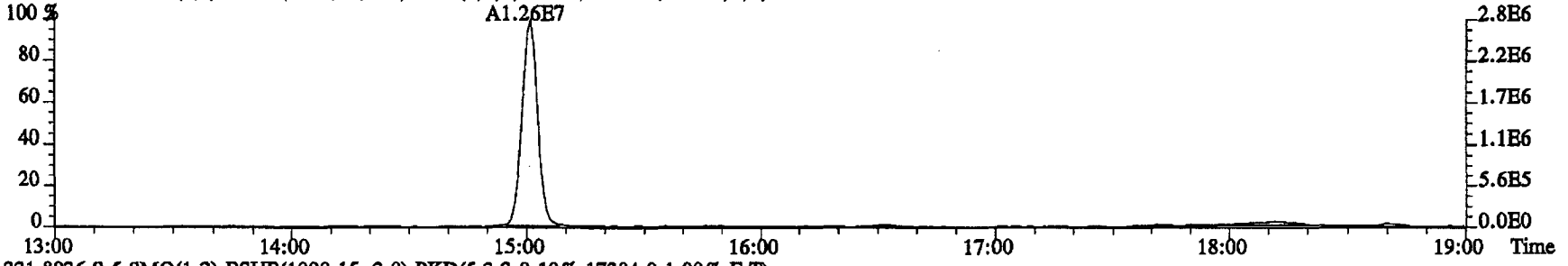
330.9792 S:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



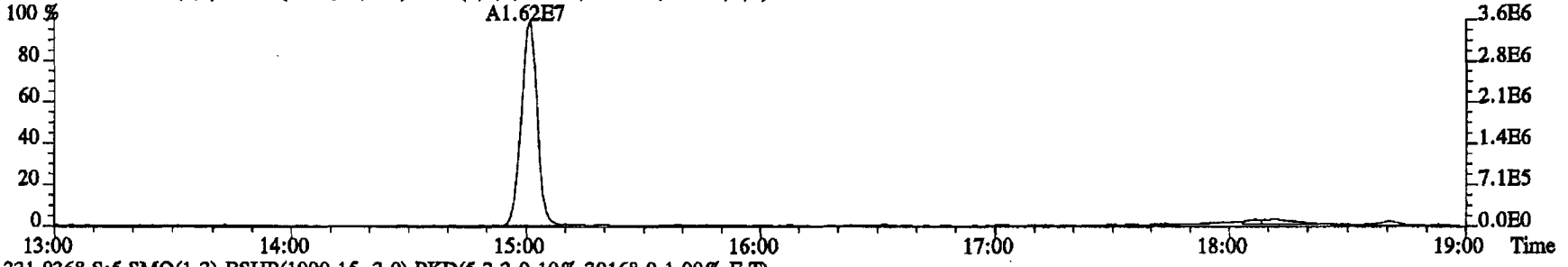
File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 15:28:06 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST1214B :10DXN505 CS31414B KSS Exp:DB225RES



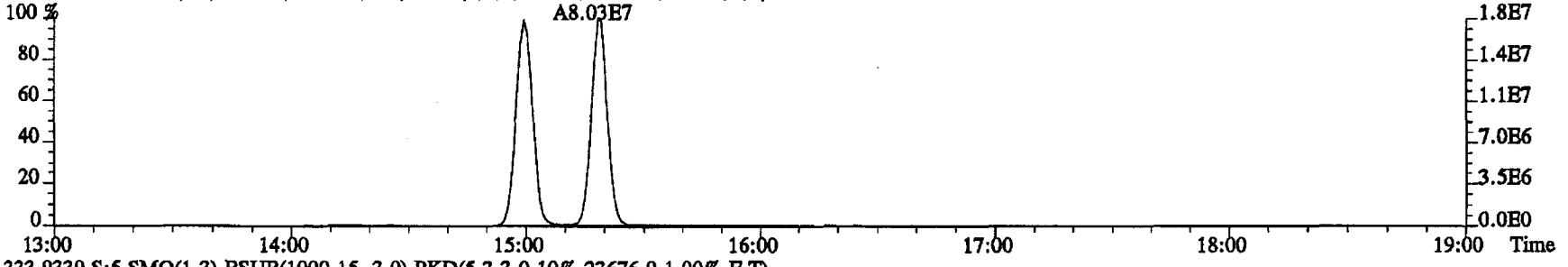
File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 15:28:06 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST1214B :10DXN505 CS31414B KSS Exp:DB225RES
319.8965 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11124.0,1.00%,F,T)



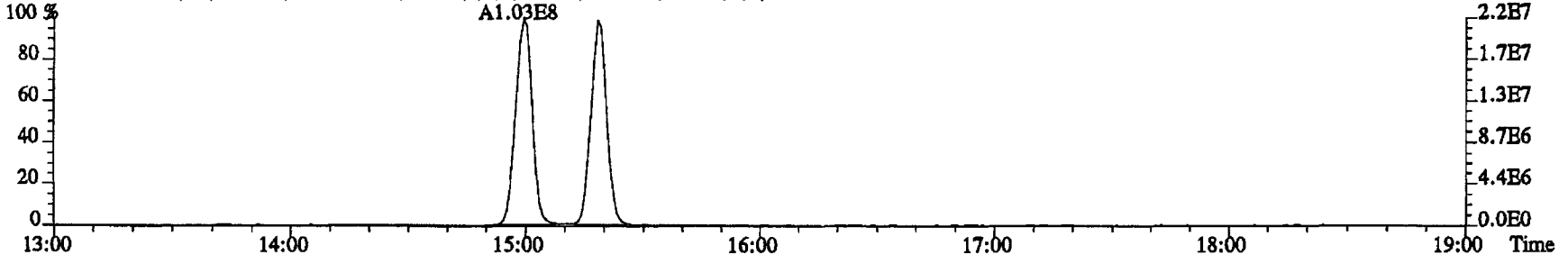
321.8936 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17384.0,1.00%,F,T)



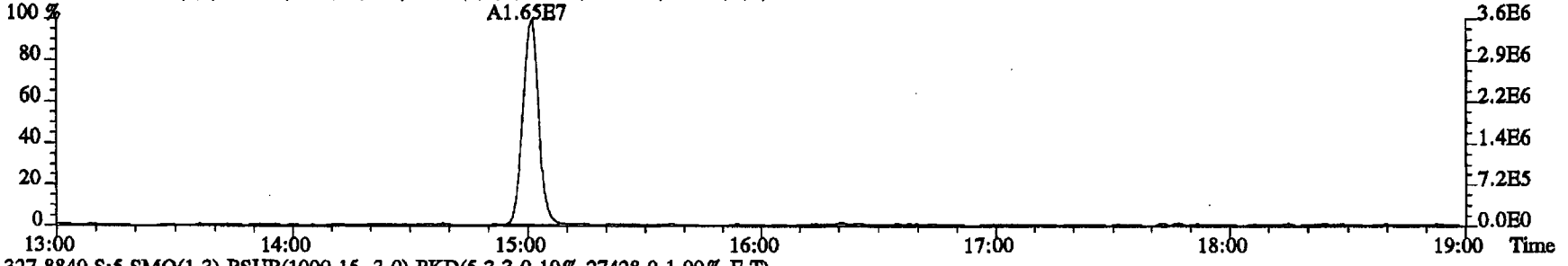
331.9368 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,30168.0,1.00%,F,T)



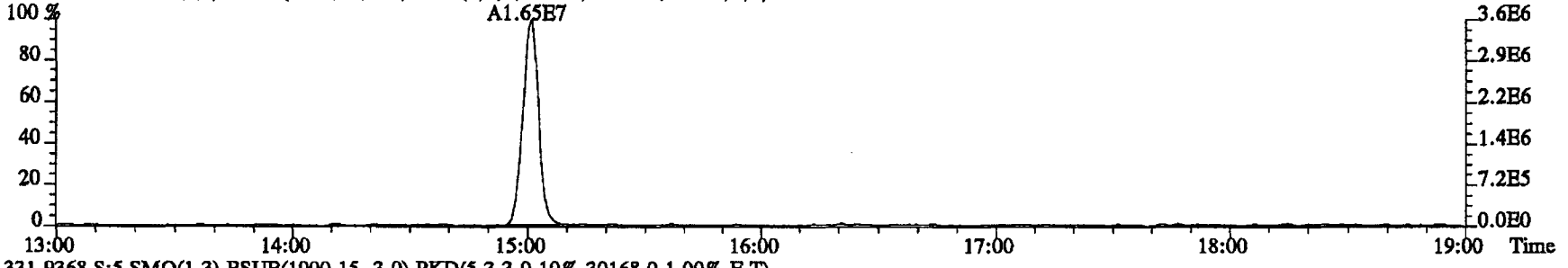
333.9339 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23676.0,1.00%,F,T)



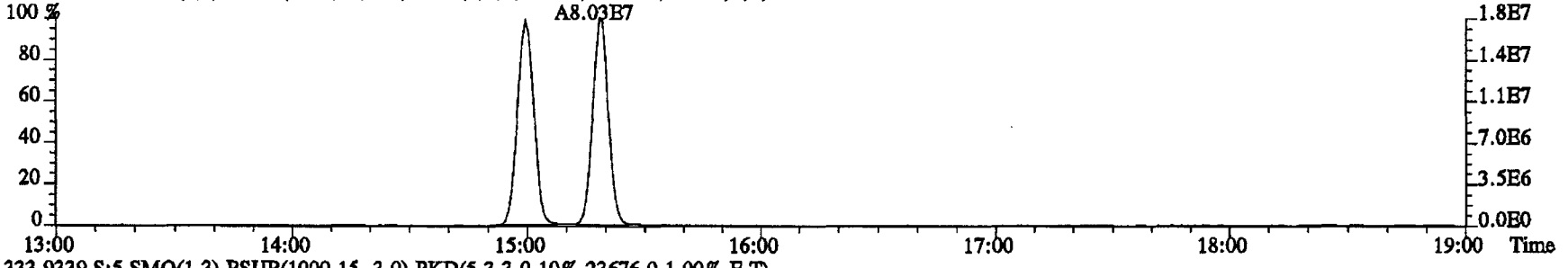
File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 15:28:06 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST1214B :10DXN505 CS31414B KSS Exp:DB225RES
327.8840 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27428.0,1.00%,F,T)



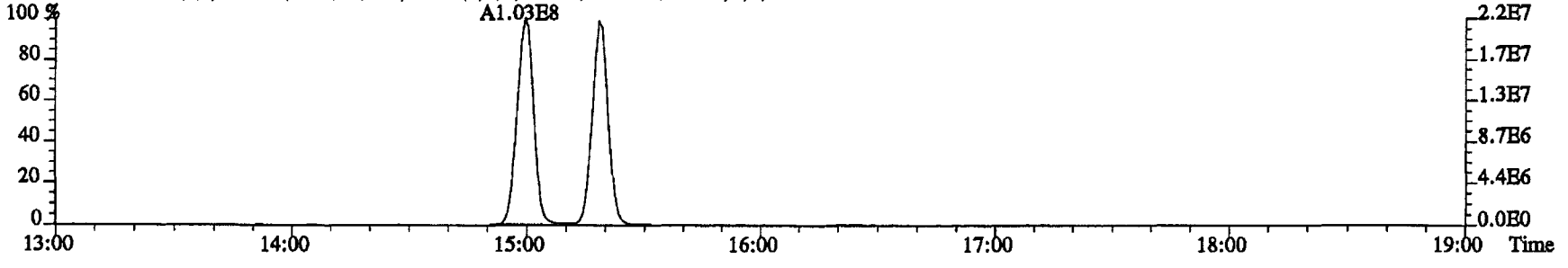
327.8840 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27428.0,1.00%,F,T)



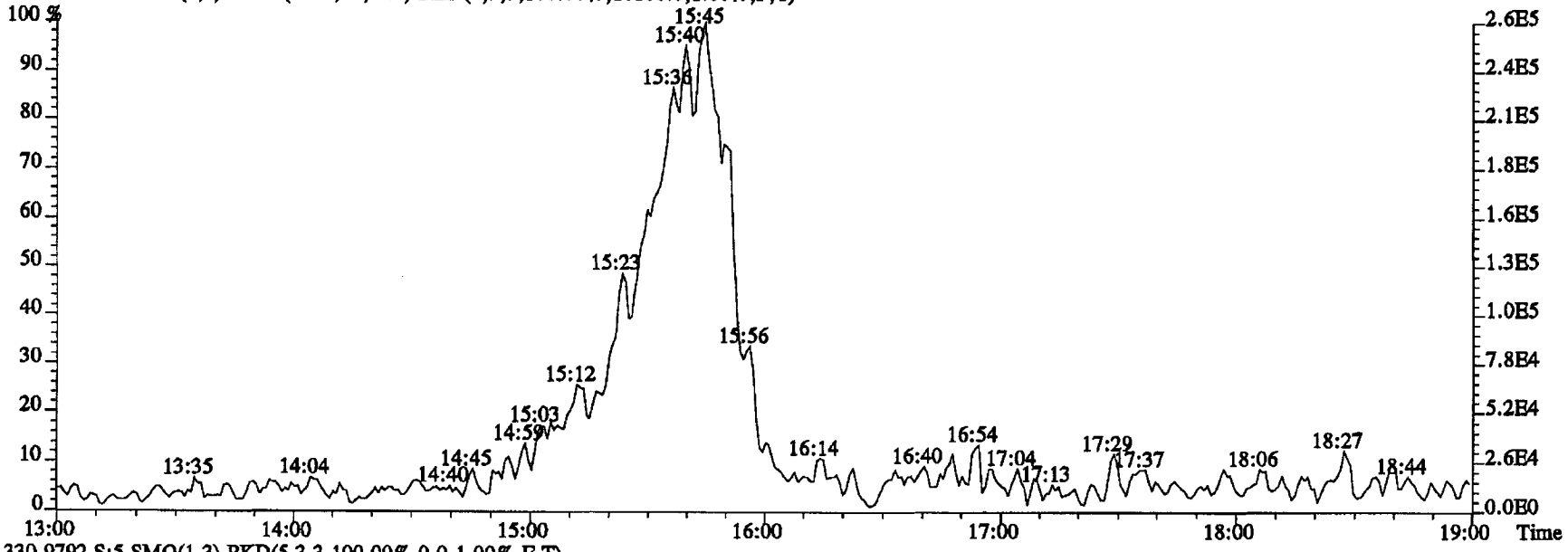
331.9368 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,30168.0,1.00%,F,T)



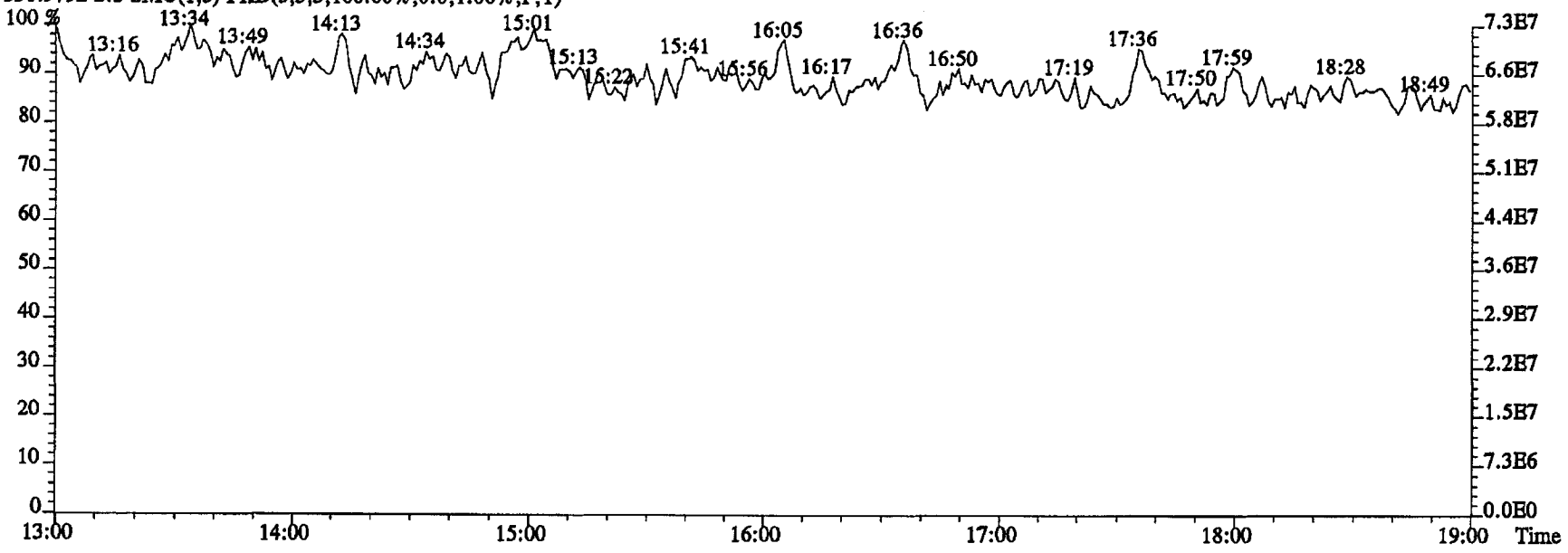
333.9339 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23676.0,1.00%,F,T)



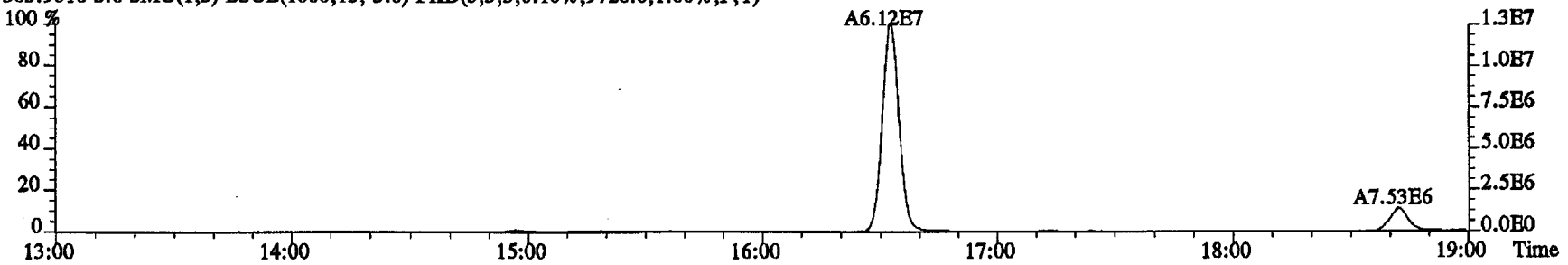
File:14DB10B5D2 #1-1242 Acq:14-DEC-2010 15:28:06 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST1214B :10DXN505 CS31414B KSS Exp:DB225RES
375.8364 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,16180.0,1.00%,F,T)



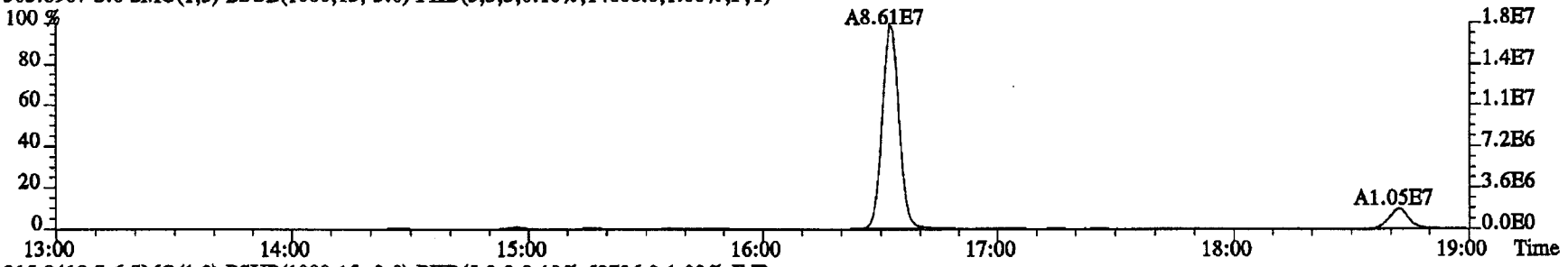
330.9792 S:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



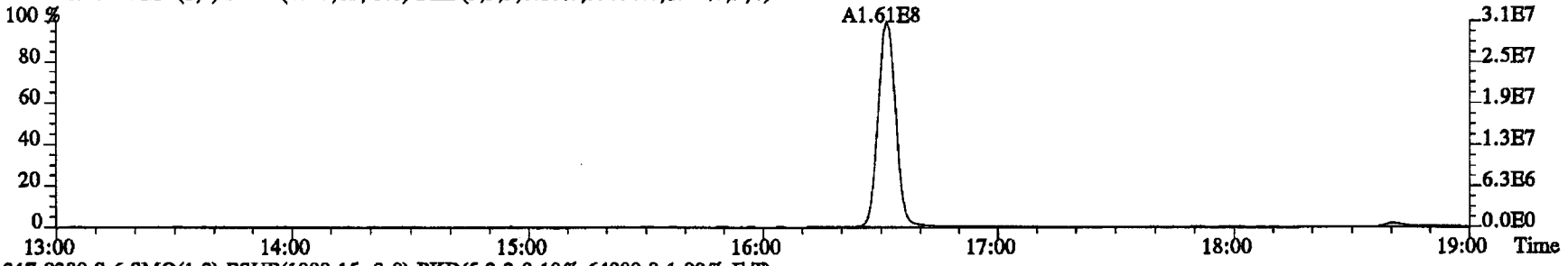
File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 16:04:28 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST1214C :10DXN506 CS41214C KSS Exp:DB225RES
303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9728.0,1.00%,F,T)



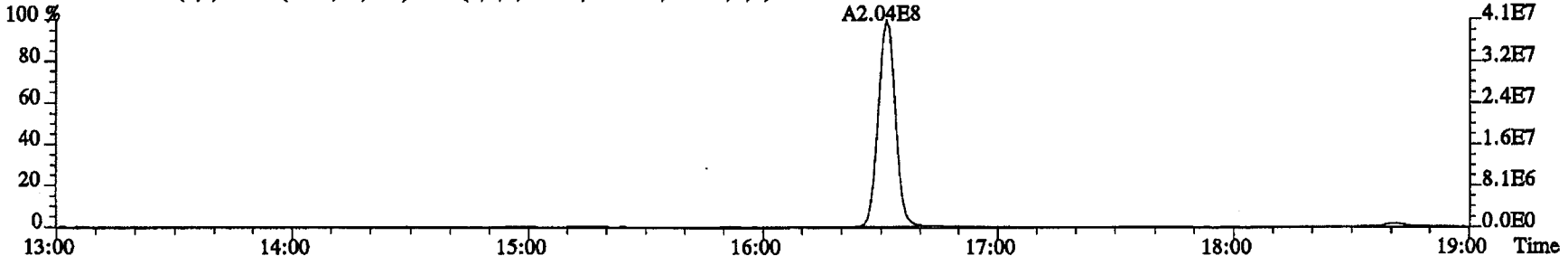
305.8987 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14608.0,1.00%,F,T)



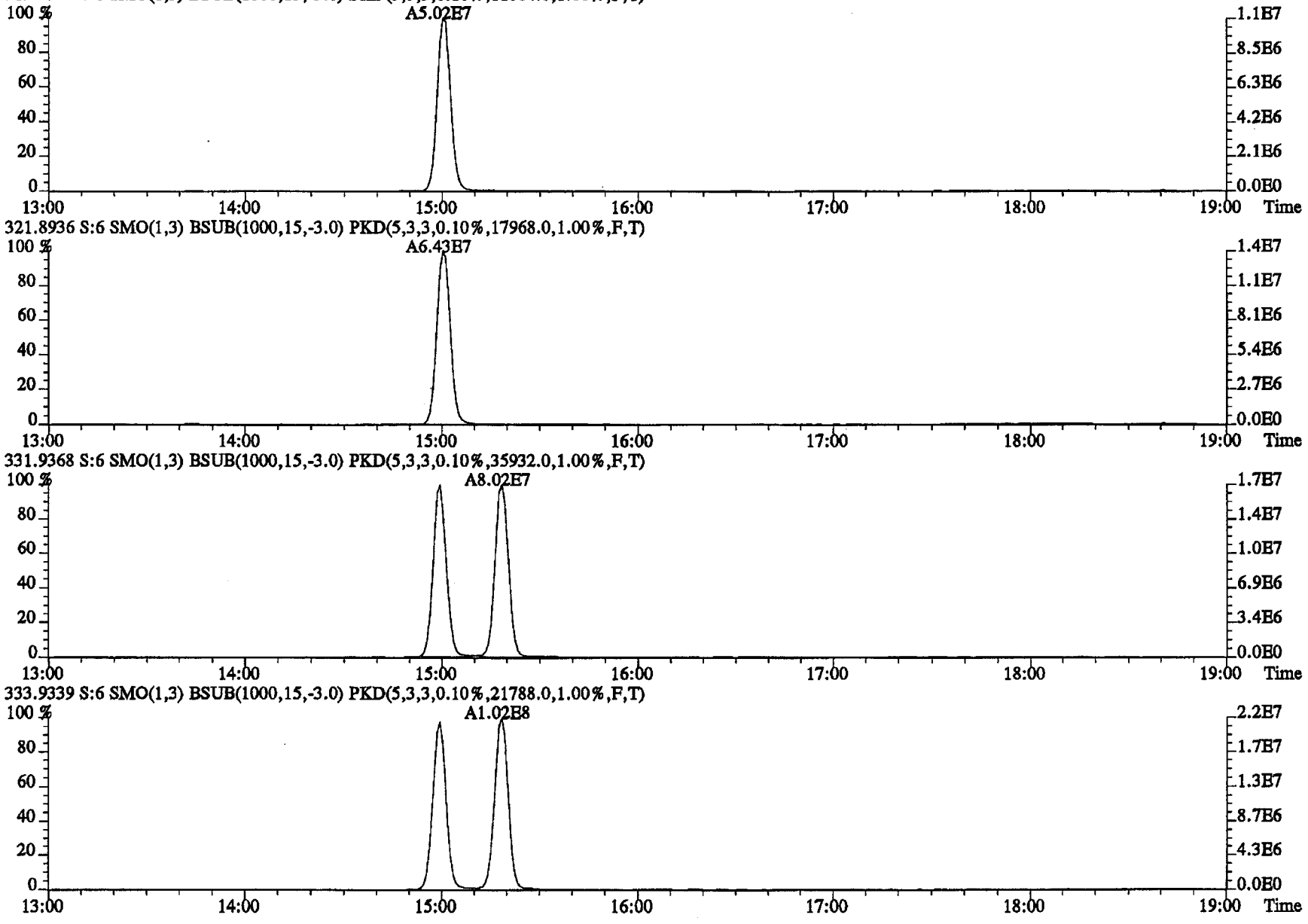
315.9419 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,53736.0,1.00%,F,T)



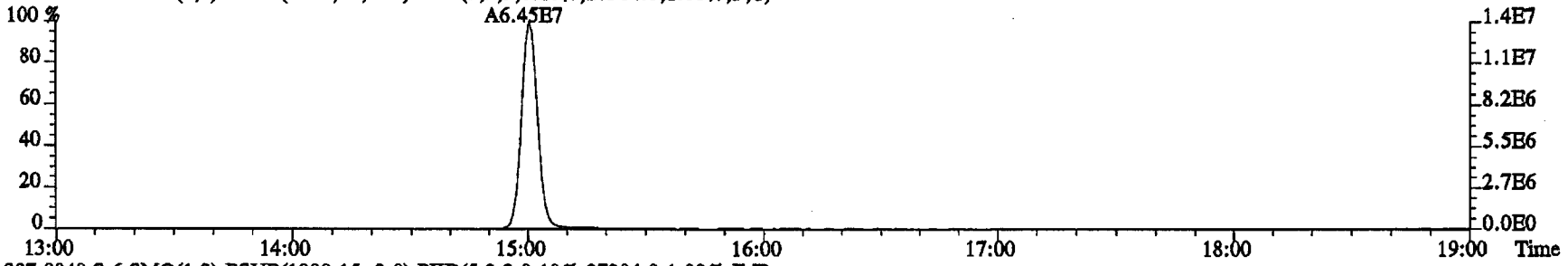
317.9389 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64900.0,1.00%,F,T)



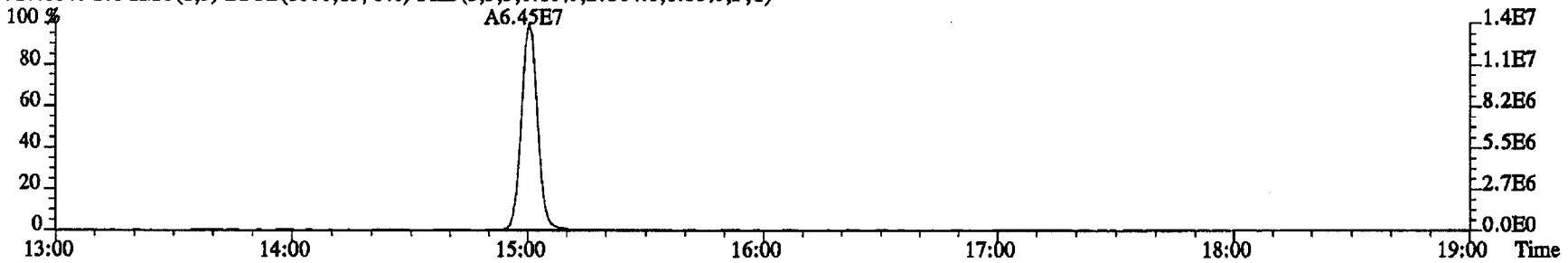
File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 16:04:28 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST1214C :10DXN506 CS41214C KSS Exp:DB225RES



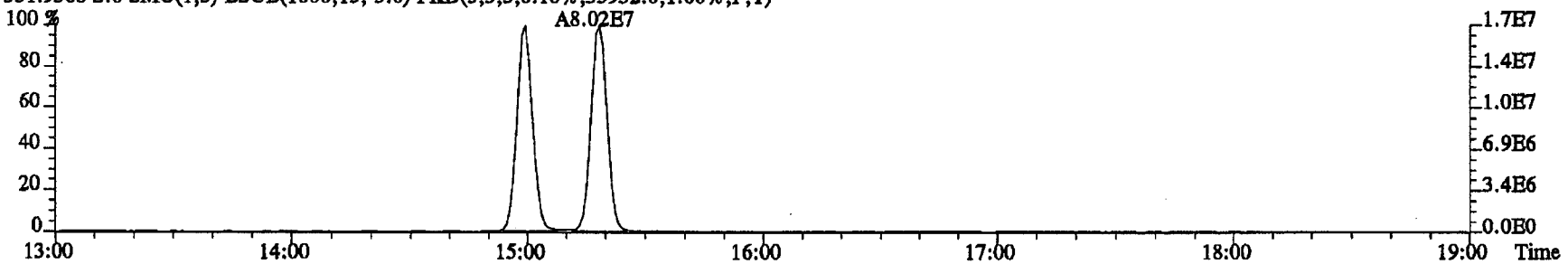
File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 16:04:28 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST1214C :10DXN506 CS41214C KSS Exp:DB225RES
327.8840 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27304.0,1.00%,F,T)



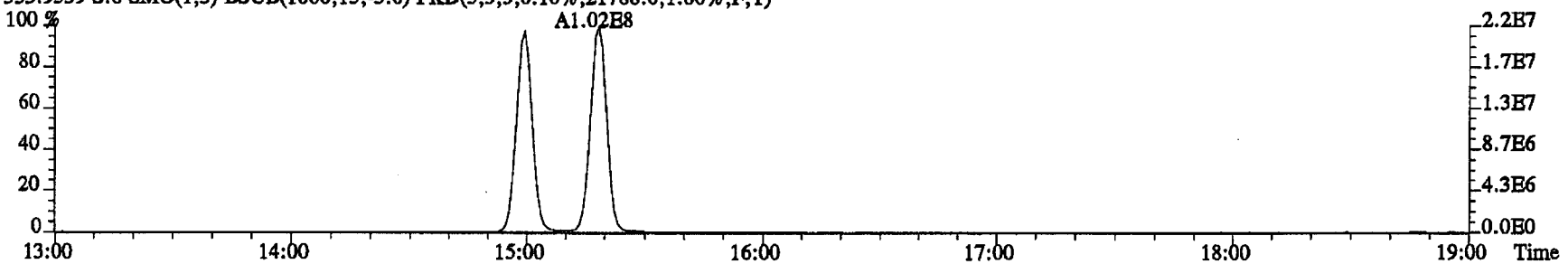
327.8840 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27304.0,1.00%,F,T)

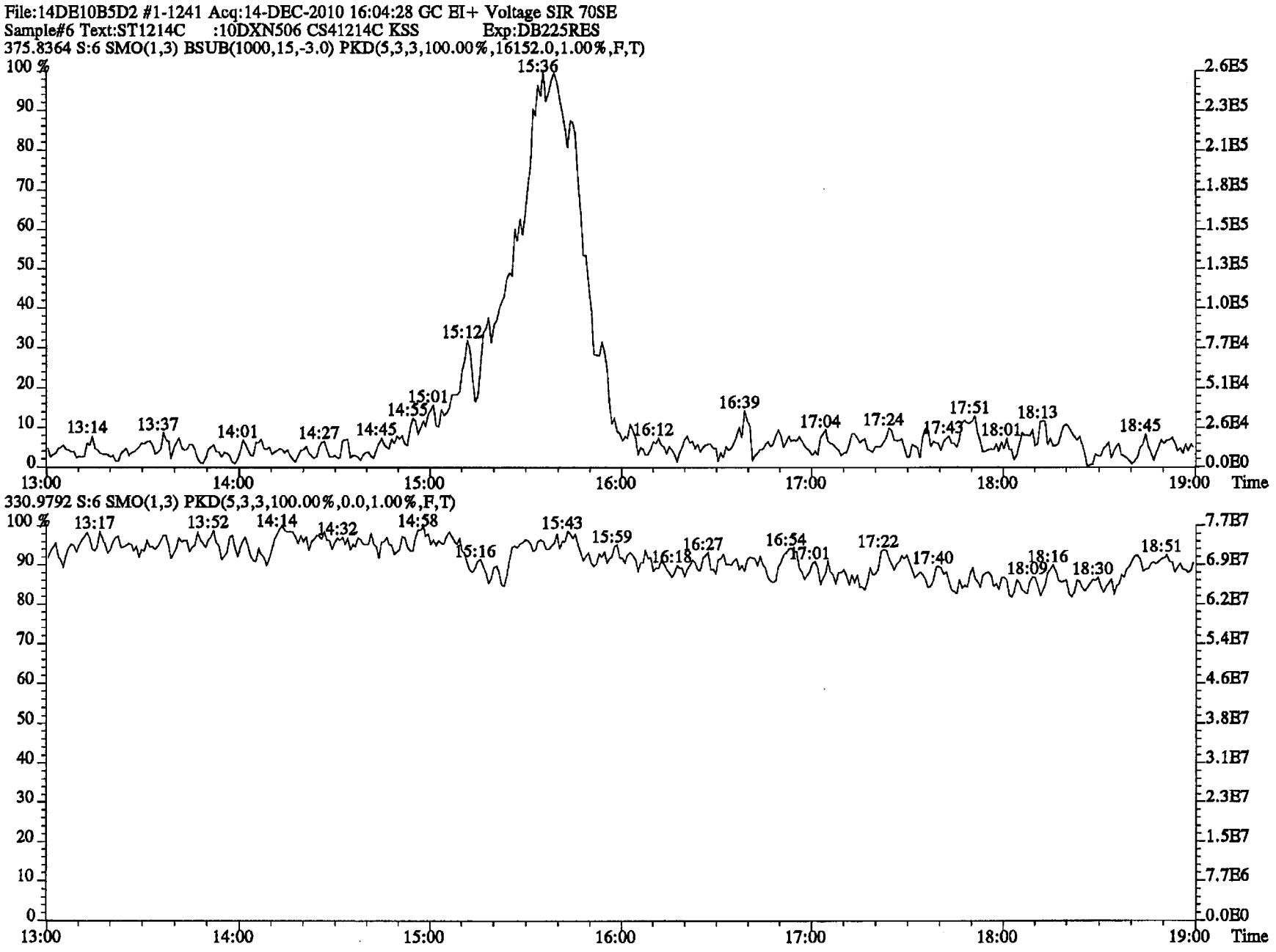


331.9368 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,35932.0,1.00%,F,T)

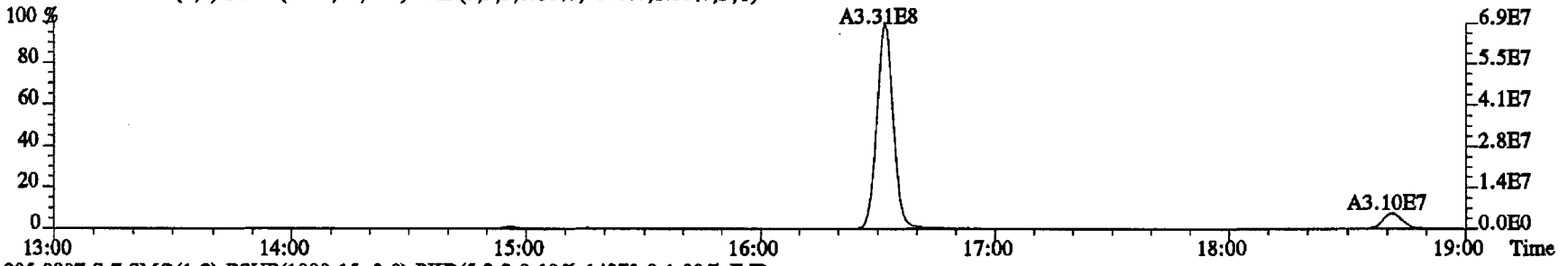


333.9339 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21788.0,1.00%,F,T)

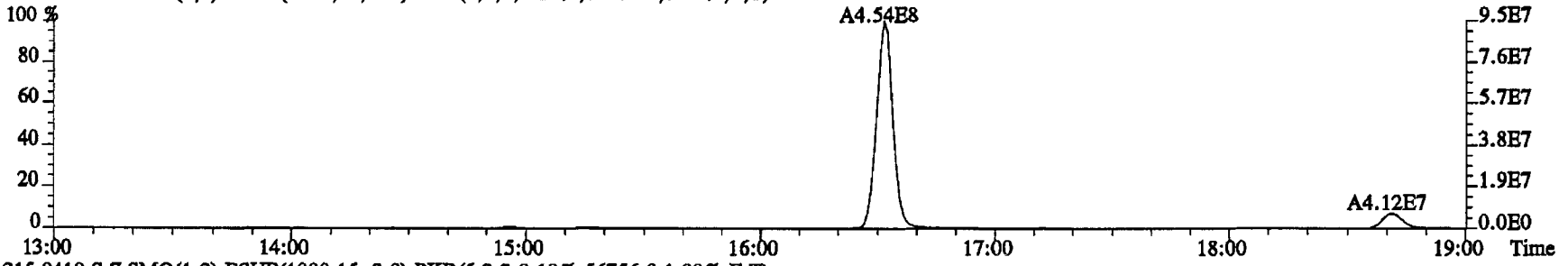



File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 16:04:28 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST1214C :10DXN506 CS41214C KSS Exp:DB225RES
375.8364 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,16152.0,1.00%,F,T)
100 %
90
80
70
60
50
40
30
20
10
0
2.6E5
2.3E5
2.1E5
1.8E5
1.5E5
1.3E5
1.0E5
7.7E4
5.1E4
2.6E4
0.0E0
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time
15:36
15:12
15:01
14:55
13:14
13:37
14:01
14:27
14:45
16:12
16:39
17:04
17:24
17:43
17:51
18:01
18:13
18:45
330.9792 S:6 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
100 %
90
80
70
60
50
40
30
20
10
0
7.7E7
6.9E7
6.2E7
5.4E7
4.6E7
3.8E7
3.1E7
2.3E7
1.5E7
7.7E6
0.0E0
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time
13:17
13:52
14:14
14:32
14:58
15:16
15:43
15:59
16:18
16:27
16:54
17:01
17:22
17:40
18:09
18:16
18:30
18:51

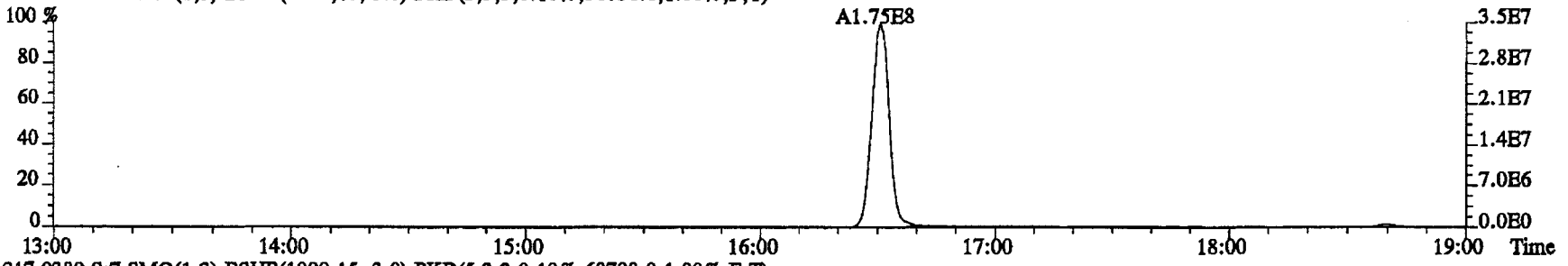
File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 16:40:49 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST1214D :10DXN507 CS51214D KSS Exp:DB225RES
303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8380.0,1.00%,F,T)



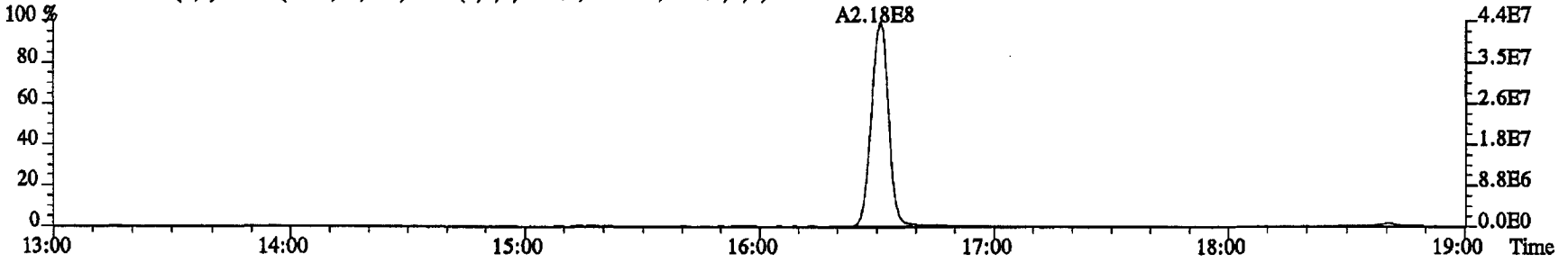
305.8987 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14372.0,1.00%,F,T)



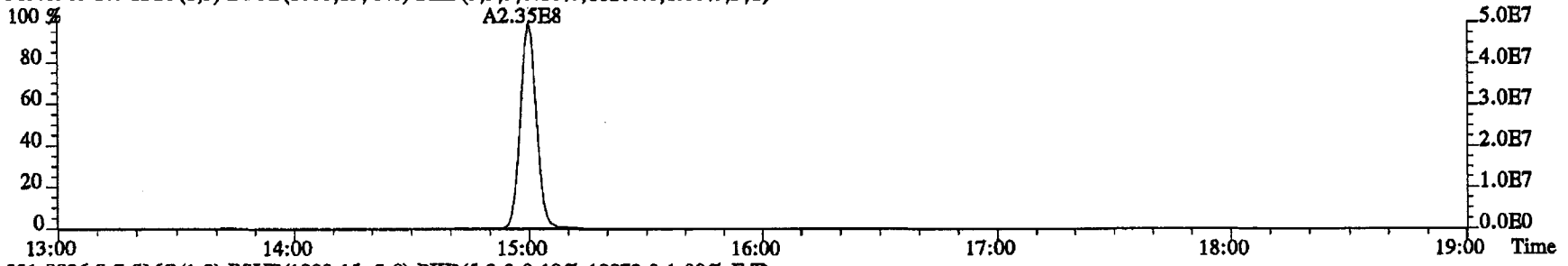
315.9419 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,56756.0,1.00%,F,T)



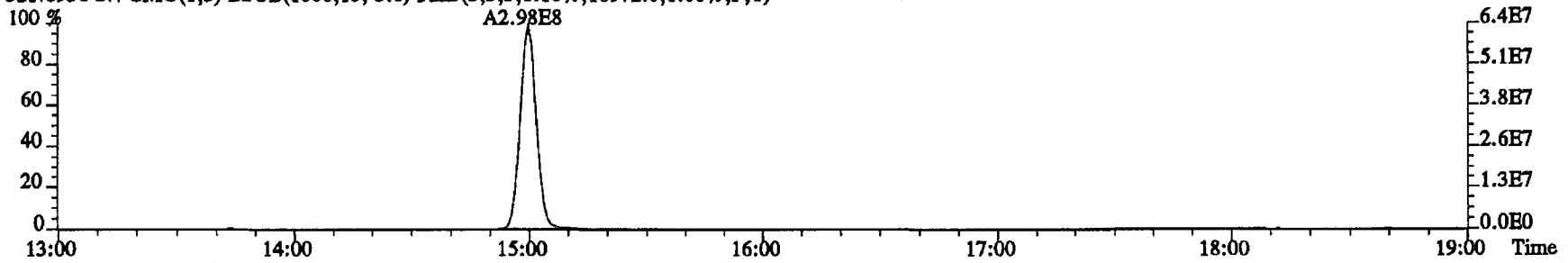
317.9389 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,68708.0,1.00%,F,T)



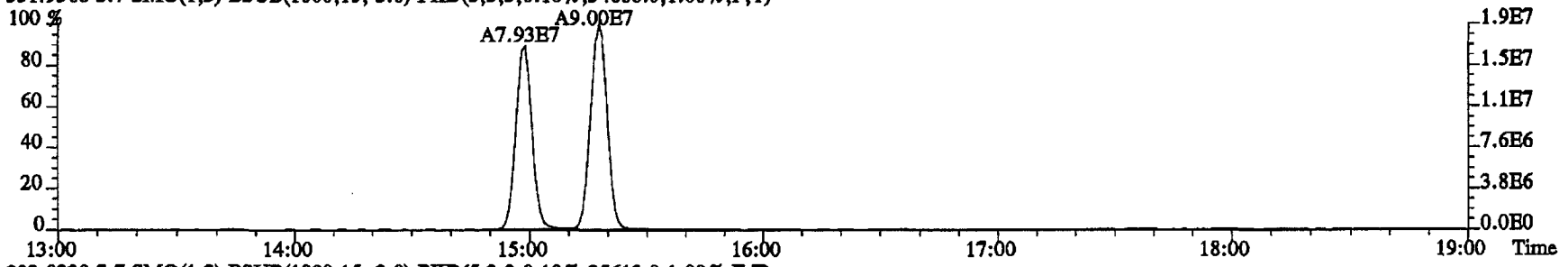
File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 16:40:49 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST1214D :10DXN507 CS51214D KSS Exp:DB225RES
319.8965 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11288.0,1.00%,F,T)



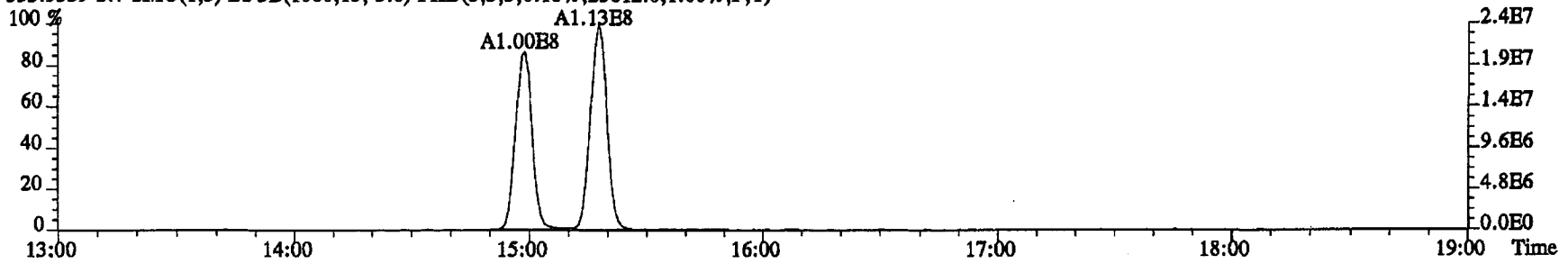
321.8936 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18972.0,1.00%,F,T)



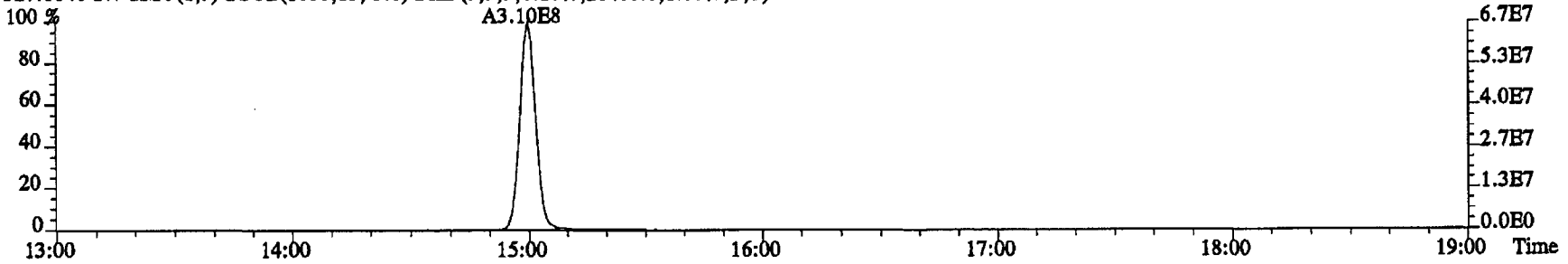
331.9368 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,34688.0,1.00%,F,T)



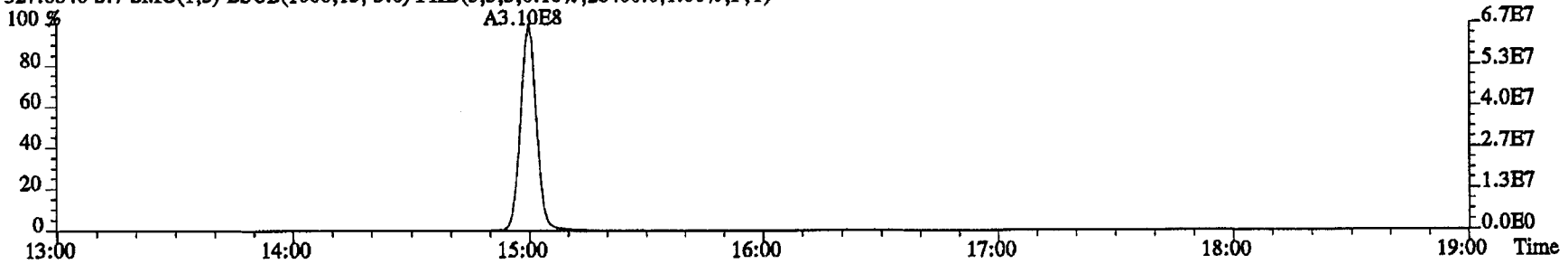
333.9339 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,25612.0,1.00%,F,T)



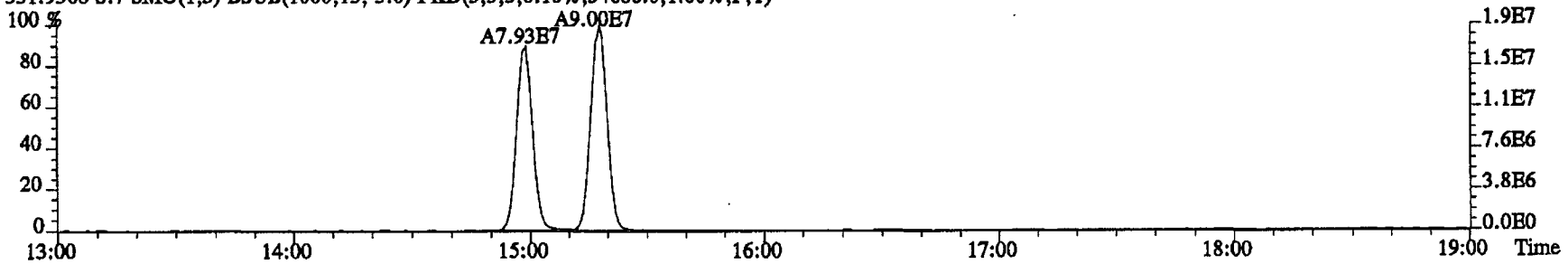
File:14DB10B5D2 #1-1241 Acq:14-DEC-2010 16:40:49 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST1214D :10DXN507 CS51214D KSS Exp:DB225RES
327.8840 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,28400.0,1.00%,F,T)



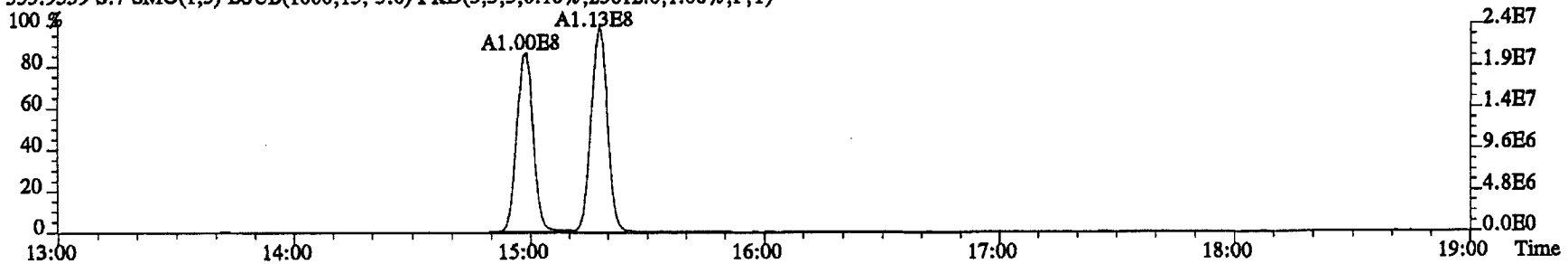
327.8840 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,28400.0,1.00%,F,T)

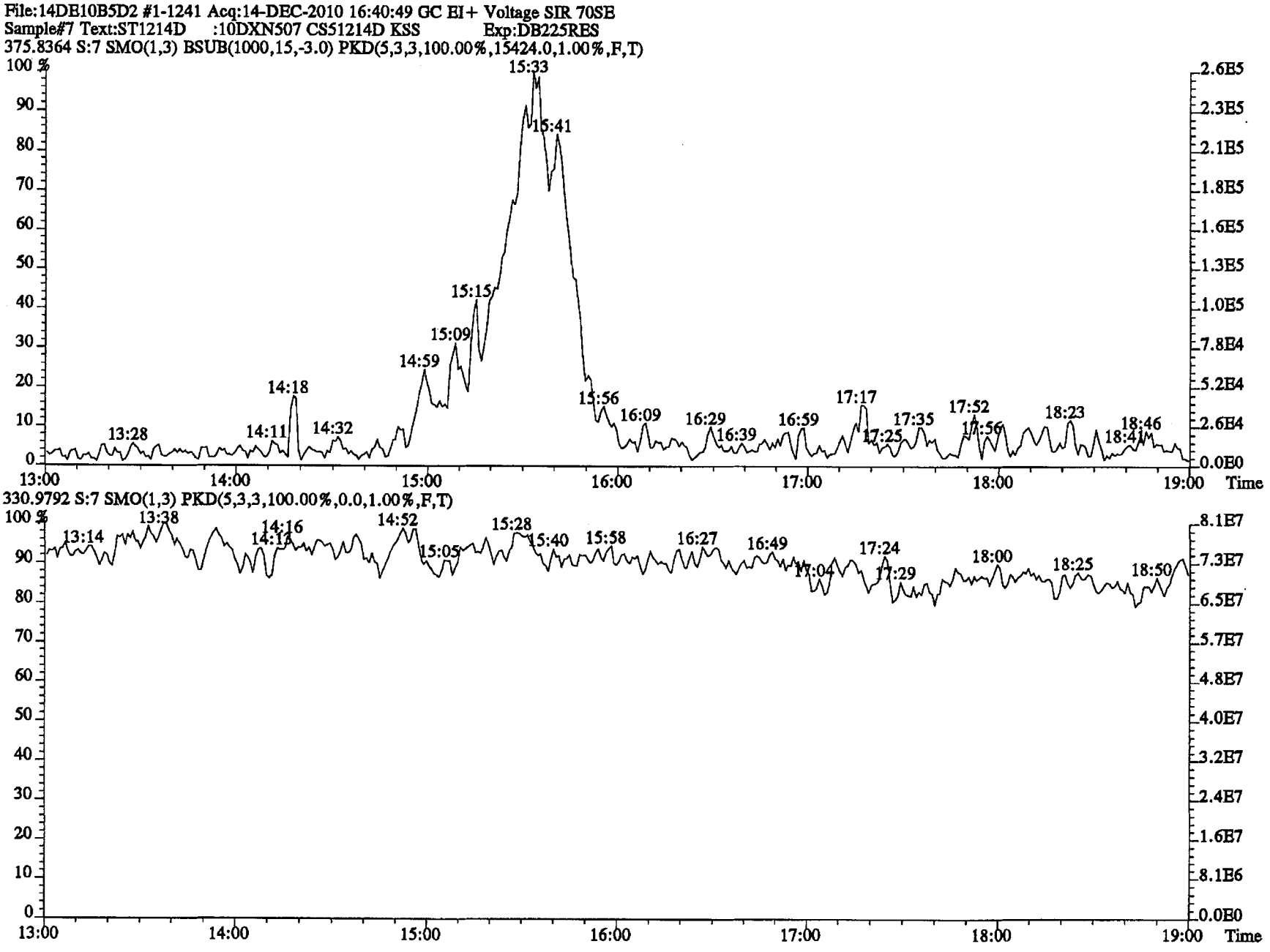


331.9368 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,34688.0,1.00%,F,T)

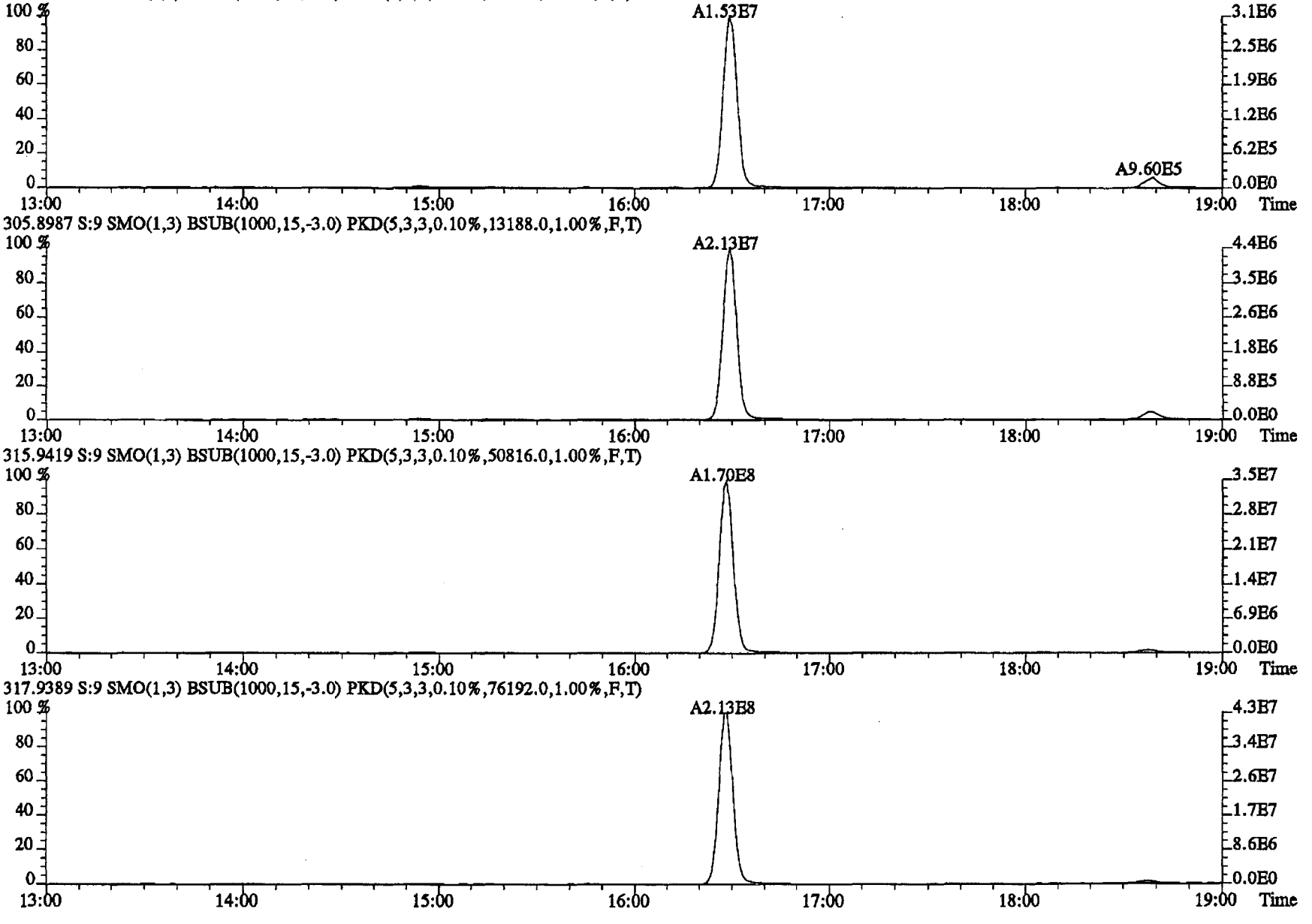


333.9339 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,25612.0,1.00%,F,T)

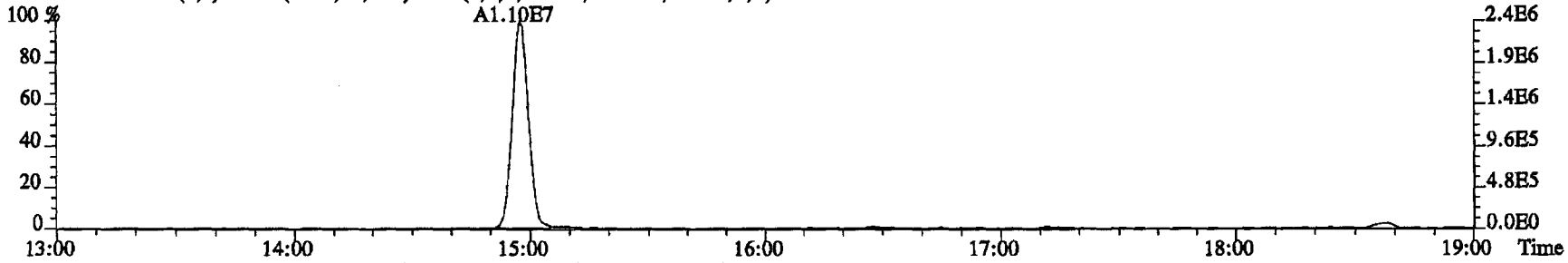



File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 16:40:49 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST1214D :10DXN507 CS51214D KSS Exp:DB225RES
375.8364 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,15424.0,1.00%,F,T)
100 %
90
80
70
60
50
40
30
20
10
0
2.6E5
2.3E5
2.1E5
1.8E5
1.6E5
1.3E5
1.0E5
7.8E4
5.2E4
2.6E4
0.0E0
13:28
14:11
14:18
14:32
14:59
15:09
15:15
15:33
15:41
15:56
16:09
16:29
16:39
16:59
17:17
17:25
17:35
17:52
17:56
18:23
18:41
18:46
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time
330.9792 S:7 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
100 %
90
80
70
60
50
40
30
20
10
0
8.1E7
7.3E7
6.5E7
5.7E7
4.8E7
4.0E7
3.2E7
2.4E7
1.6E7
8.1E6
0.0E0
13:14
13:38
14:11
14:16
14:52
15:05
15:28
15:40
15:58
16:27
16:49
17:04
17:24
17:29
18:00
18:25
18:50
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time

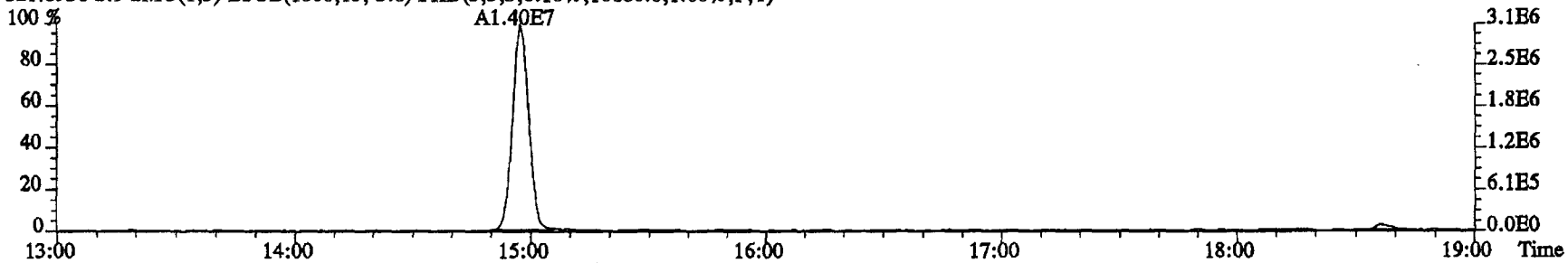
File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 17:53:39 GC EI+ Voltage SIR 70SE
Sample#9 Text:ST1214E :10DXN340 Second Source KSS Exp:DB225RES



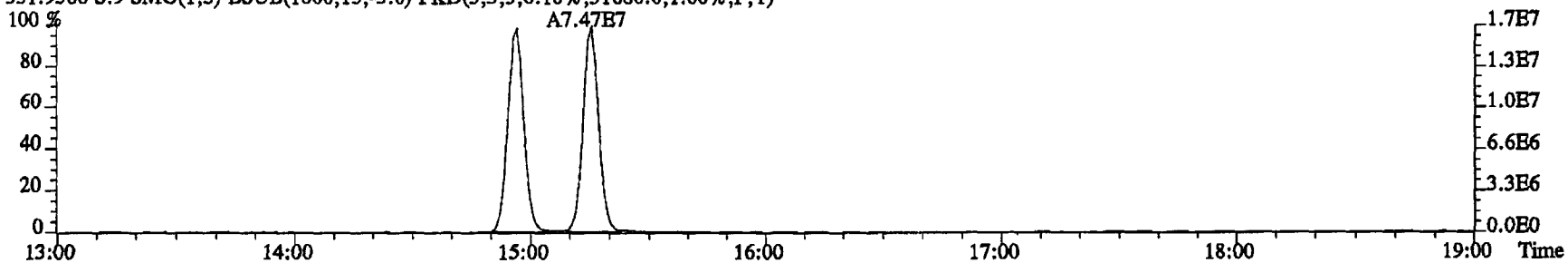
File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 17:53:39 GC EI+ Voltage SIR 70SE
Sample#9 Text:ST1214E :10DXN340 Second Source KSS Exp:DB225RES
319.8965 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10392.0,1.00%,F,T)



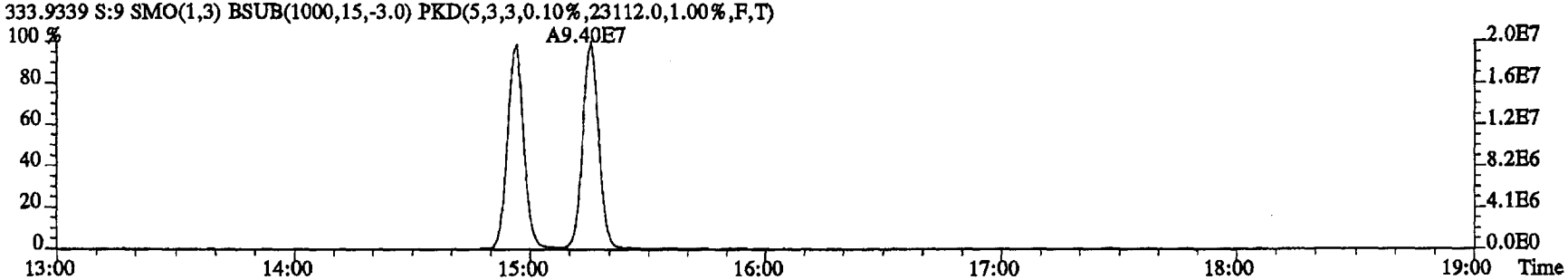
321.8936 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16680.0,1.00%,F,T)



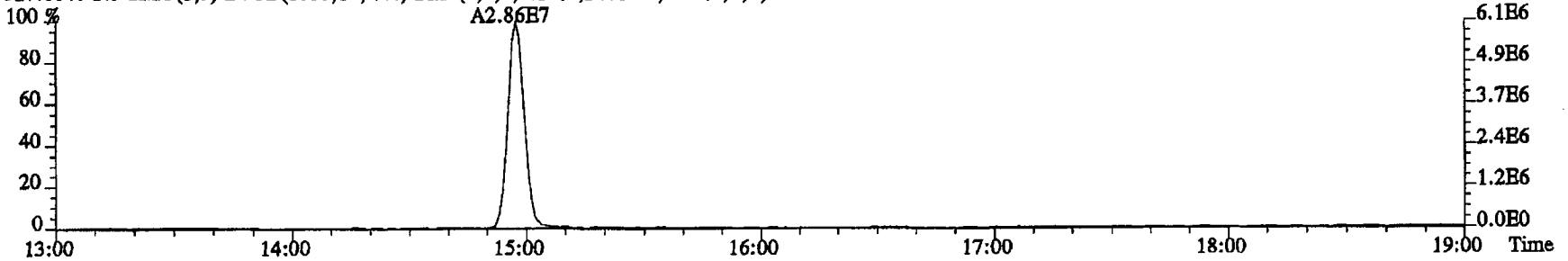
331.9368 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,31680.0,1.00%,F,T)



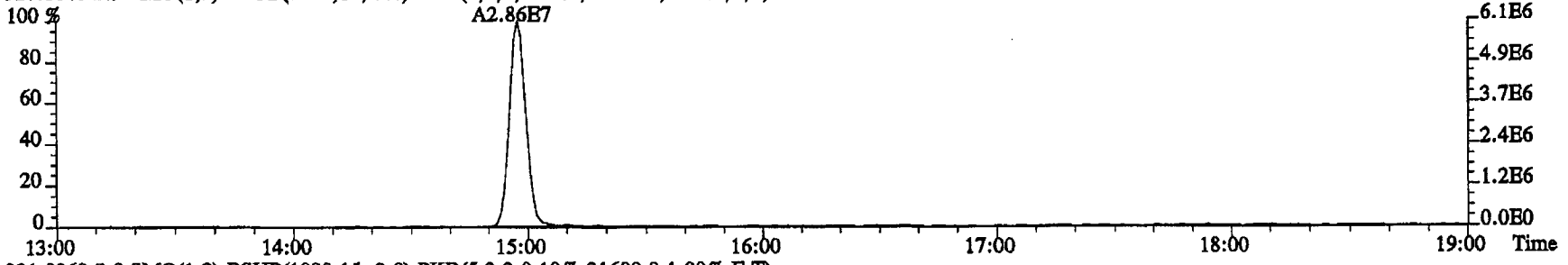
333.9339 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23112.0,1.00%,F,T)



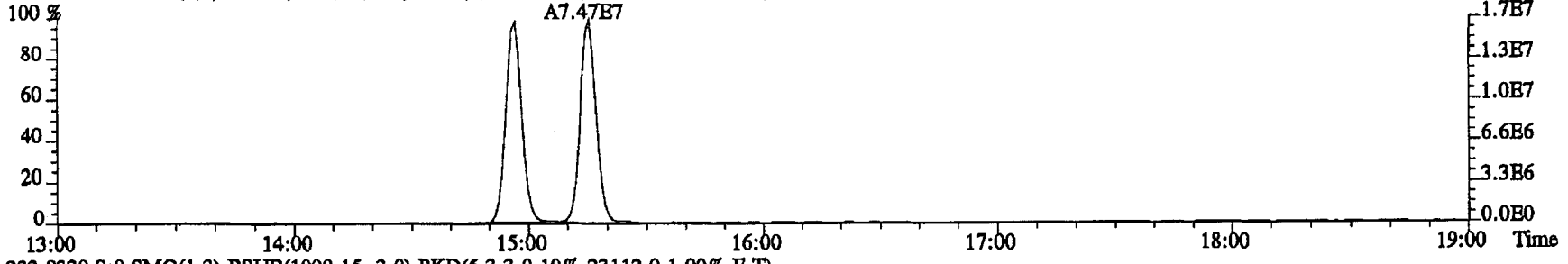
File:14DE10B5D2 #1-1242 Acq:14-DEC-2010 17:53:39 GC EI+ Voltage SIR 70SE
Sample#9 Text:ST1214E :10DXN340 Second Source KSS Exp:DB225RES
327.8840 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24616.0,1.00%,F,T)



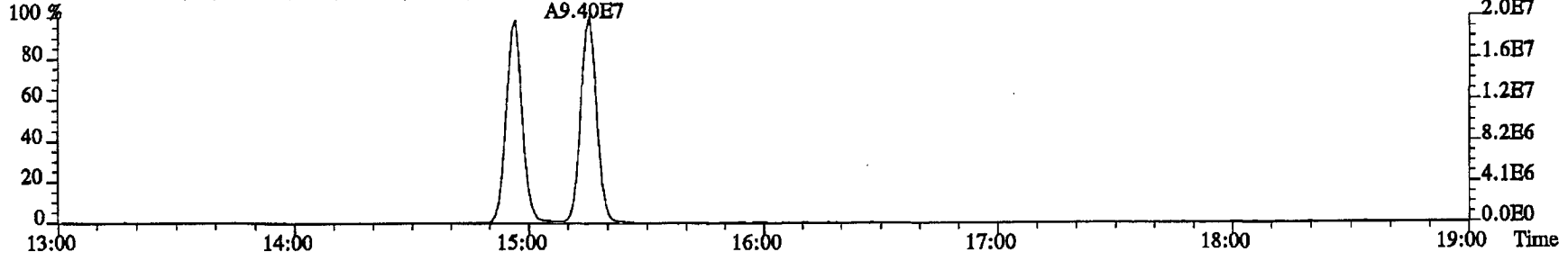
327.8840 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24616.0,1.00%,F,T)

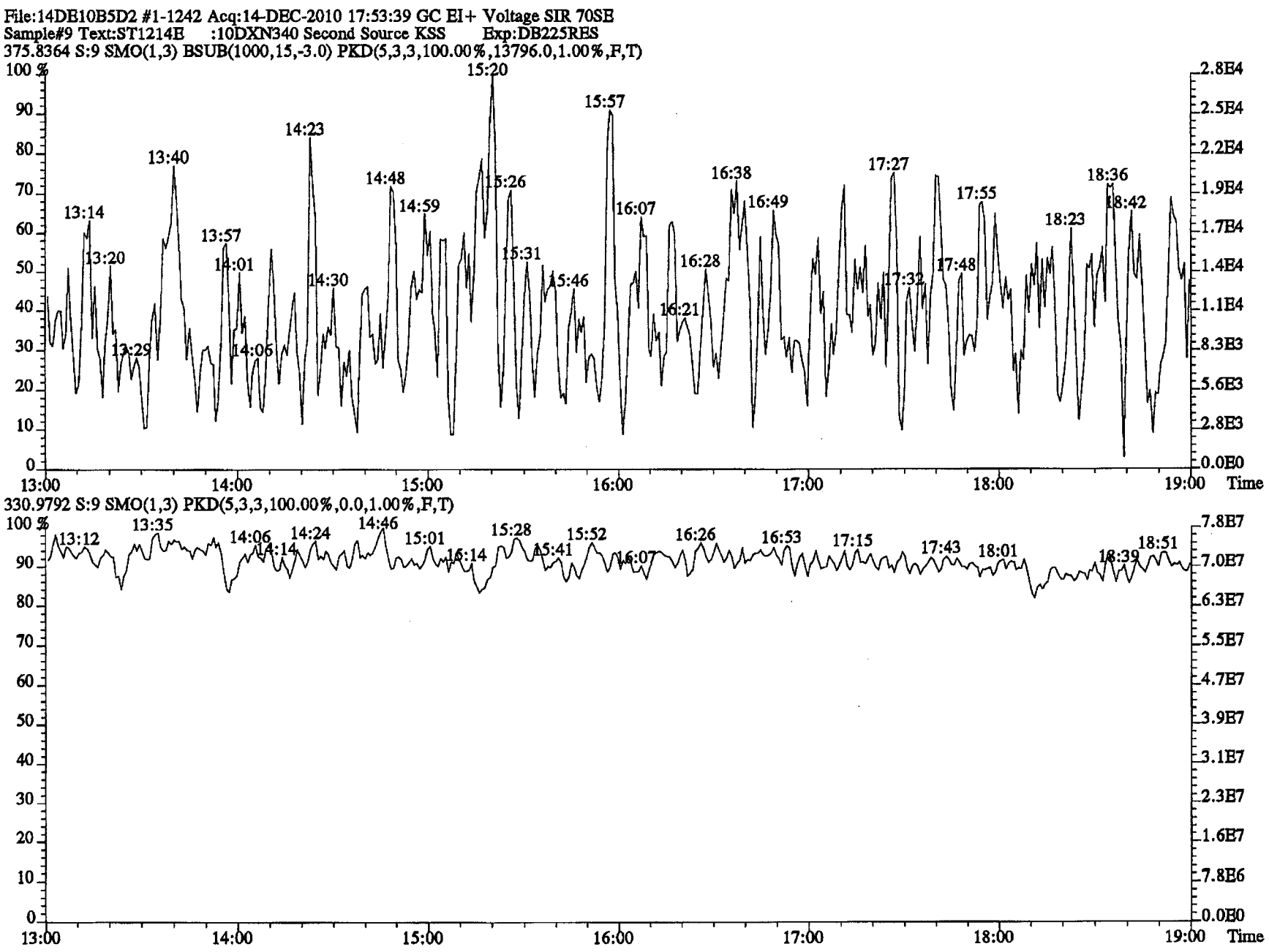


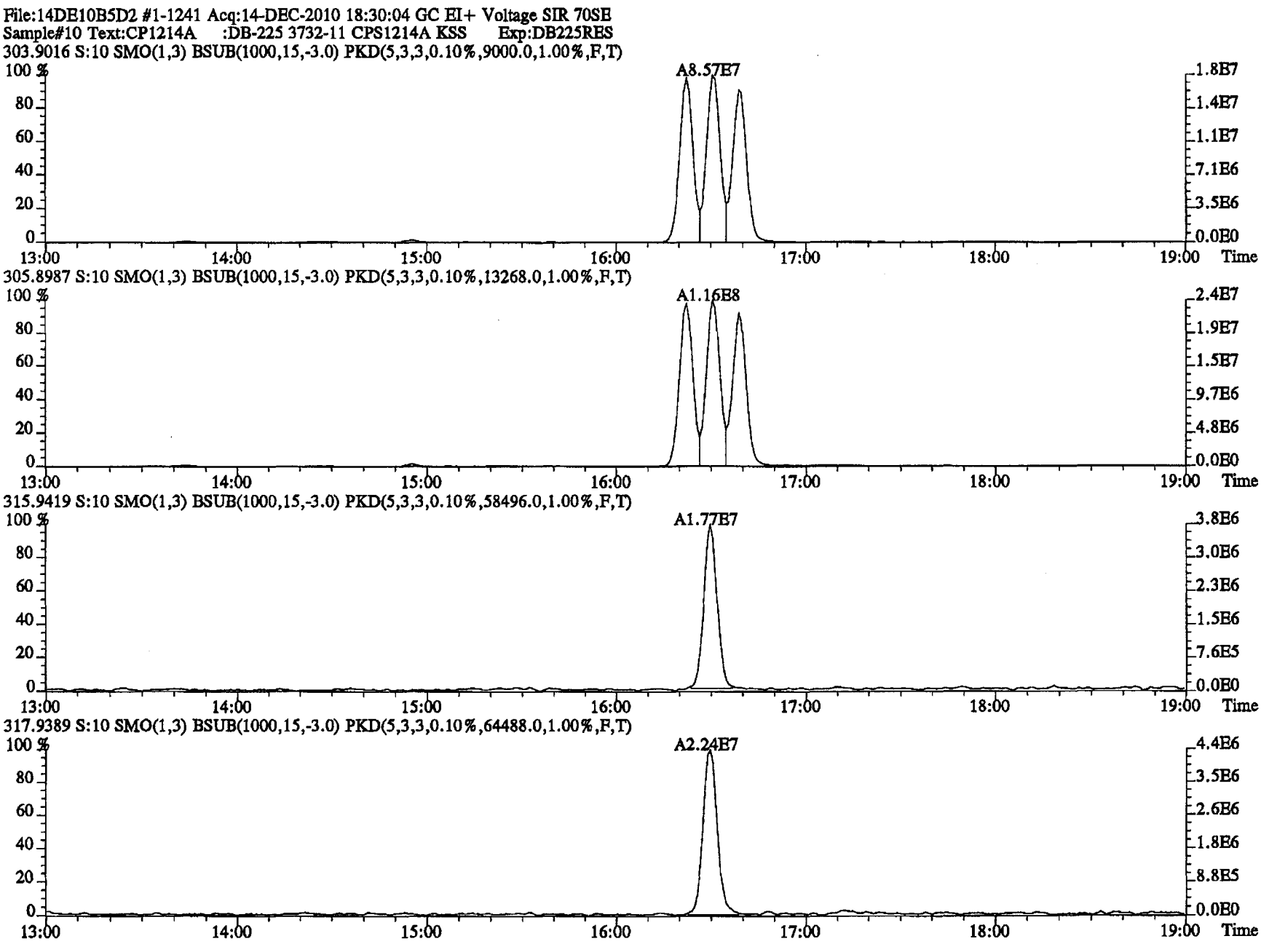
331.9368 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,31680.0,1.00%,F,T)



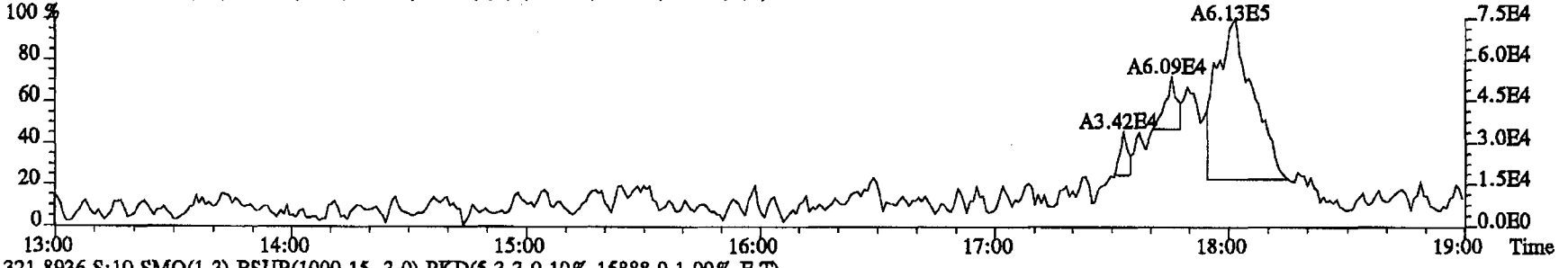
333.9339 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23112.0,1.00%,F,T)



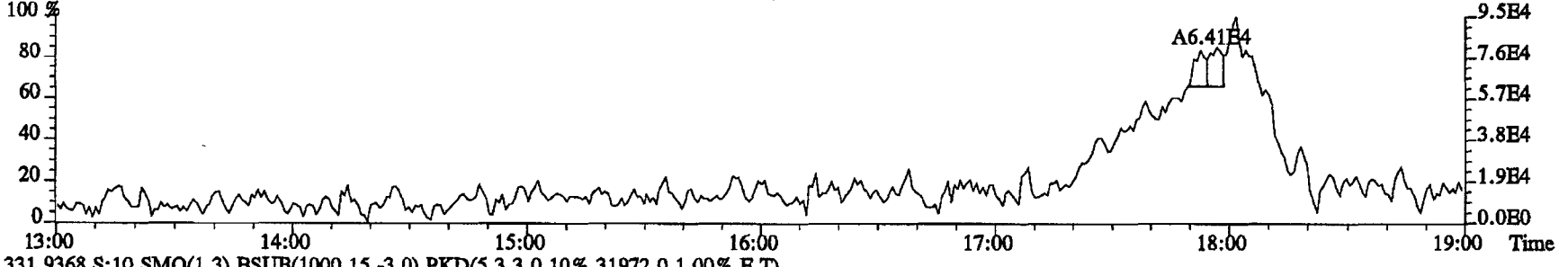

File:14DB10B5D2 #1-1242 Acq:14-DEC-2010 17:53:39 GC EI+ Voltage SIR 70SE
Sample#9 Text:ST1214E :10DXN340 Second Source KSS Exp:DB225RES
375.8364 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,13796.0,1.00%,F,T)
100 %
90
80
70
60
50
40
30
20
10
0
13:14
13:20
13:29
13:40
13:57
14:01
14:06
14:23
14:30
14:48
14:59
15:20
15:26
15:31
15:46
15:57
16:07
16:21
16:28
16:38
16:49
17:27
17:32
17:48
17:55
18:23
18:36
18:42
2.8E4
2.5E4
2.2E4
1.9E4
1.7E4
1.4E4
1.1E4
8.3E3
5.6E3
2.8E3
0.0E0
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time
330.9792 S:9 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
100 %
90
80
70
60
50
40
30
20
10
0
13:12
13:35
14:06
14:14
14:24
14:46
15:01
15:14
15:28
15:41
15:52
16:07
16:26
16:53
17:15
17:43
18:01
18:39
18:51
7.8E7
7.0E7
6.3E7
5.5E7
4.7E7
3.9E7
3.1E7
2.3E7
1.6E7
7.8E6
0.0E0
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time


File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 18:30:04 GC EI+ Voltage SIR 70SE
Sample#10 Text:CP1214A :DB-225 3732-11 CPS1214A KSS Exp:DB225RES
303.9016 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9000.0,1.00%,F,T)
A8.57E7
305.8987 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13268.0,1.00%,F,T)
A1.16E8
315.9419 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,58496.0,1.00%,F,T)
A1.77E7
317.9389 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64488.0,1.00%,F,T)
A2.24E7
100 %
80
60
40
20
0
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time
1.8E7
1.4E7
1.1E7
7.1E6
3.5E6
0.0E0
2.4E7
1.9E7
1.5E7
9.7E6
4.8E6
3.8E6
3.0E6
2.3E6
1.5E6
7.6E5
4.4E6
3.5E6
2.6E6
1.8E6
8.8E5

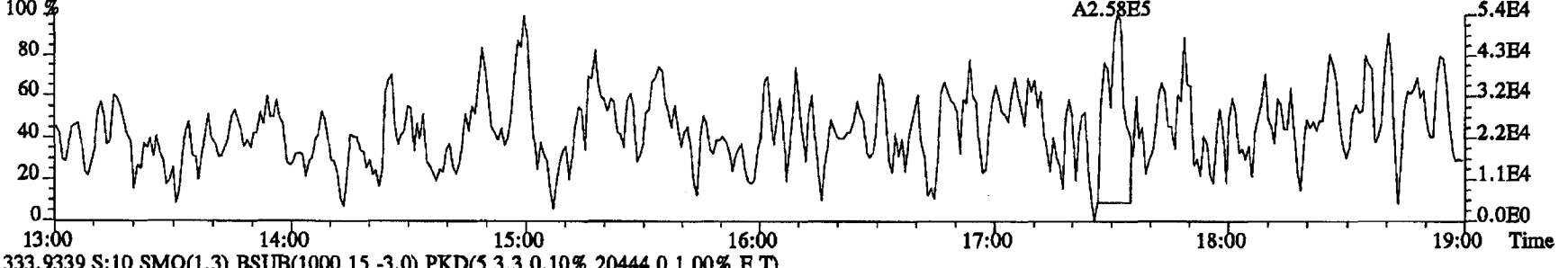
File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 18:30:04 GC EI+ Voltage SIR 70SE
Sample#10 Text:CP1214A :DB-225 3732-11 CPS1214A KSS Exp:DB225RES
319.8965 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9728.0,1.00%,F,T)



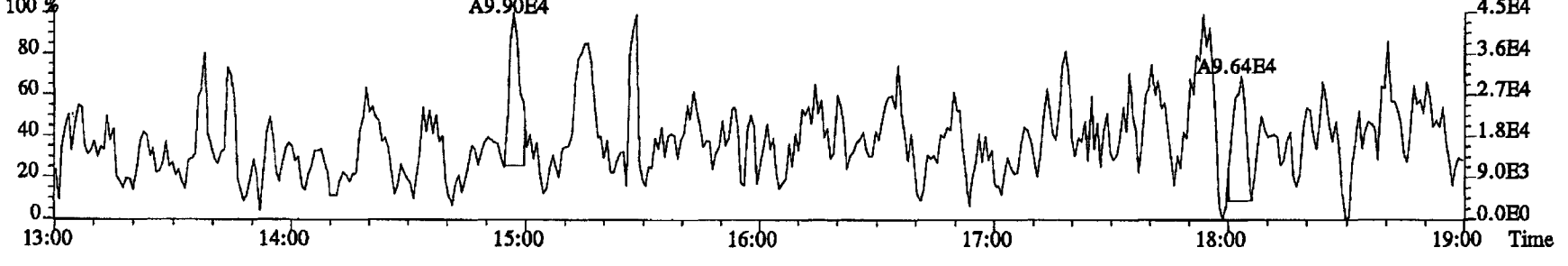
321.8936 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15888.0,1.00%,F,T)



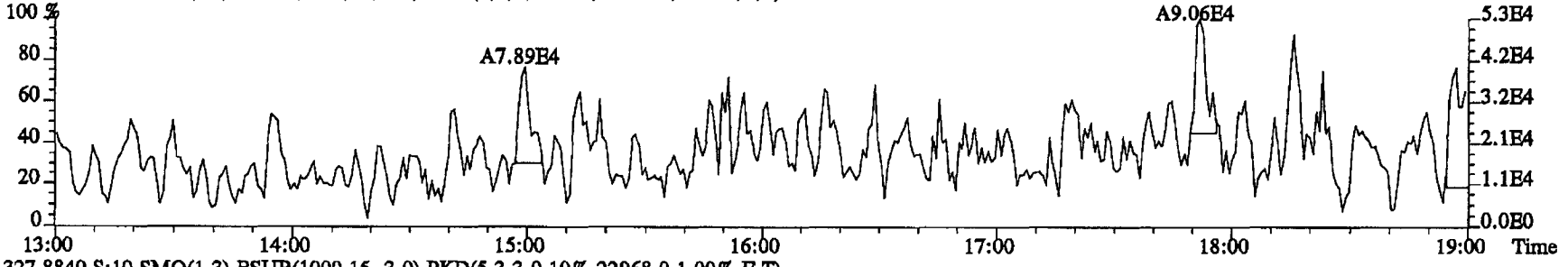
331.9368 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,31972.0,1.00%,F,T)



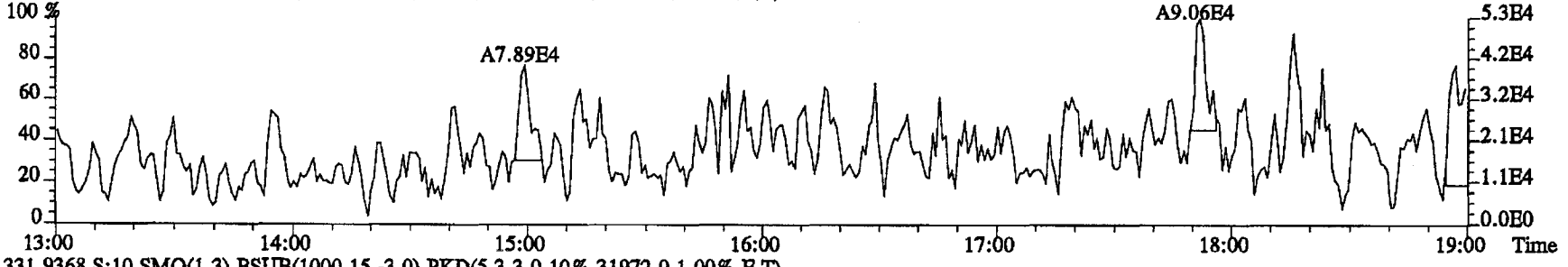
333.9339 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20444.0,1.00%,F,T)



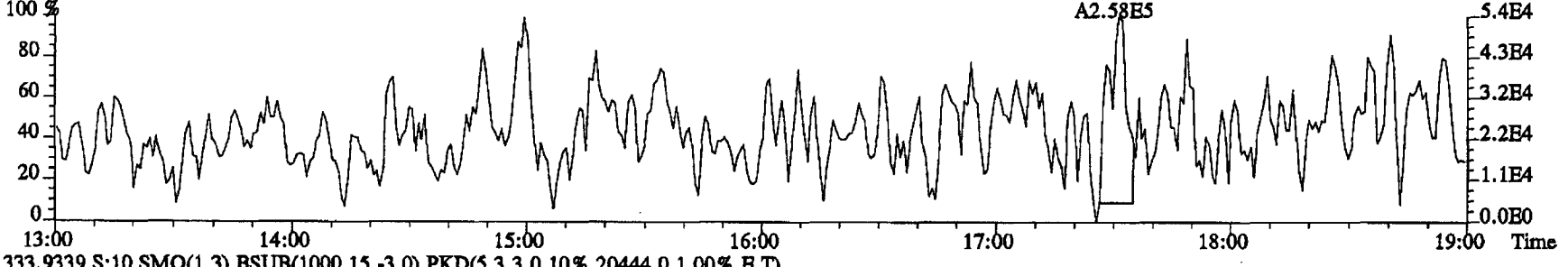
File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 18:30:04 GC EI+ Voltage SIR 70SE
Sample#10 Text:CP1214A :DB-225 3732-11 CPS1214A KSS Exp:DB225RES
327.8840 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22968.0,1.00%,F,T)



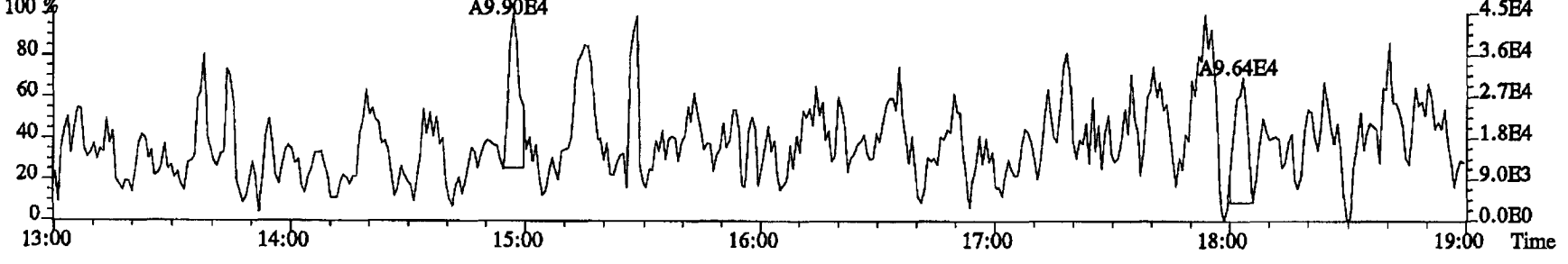
327.8840 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22968.0,1.00%,F,T)

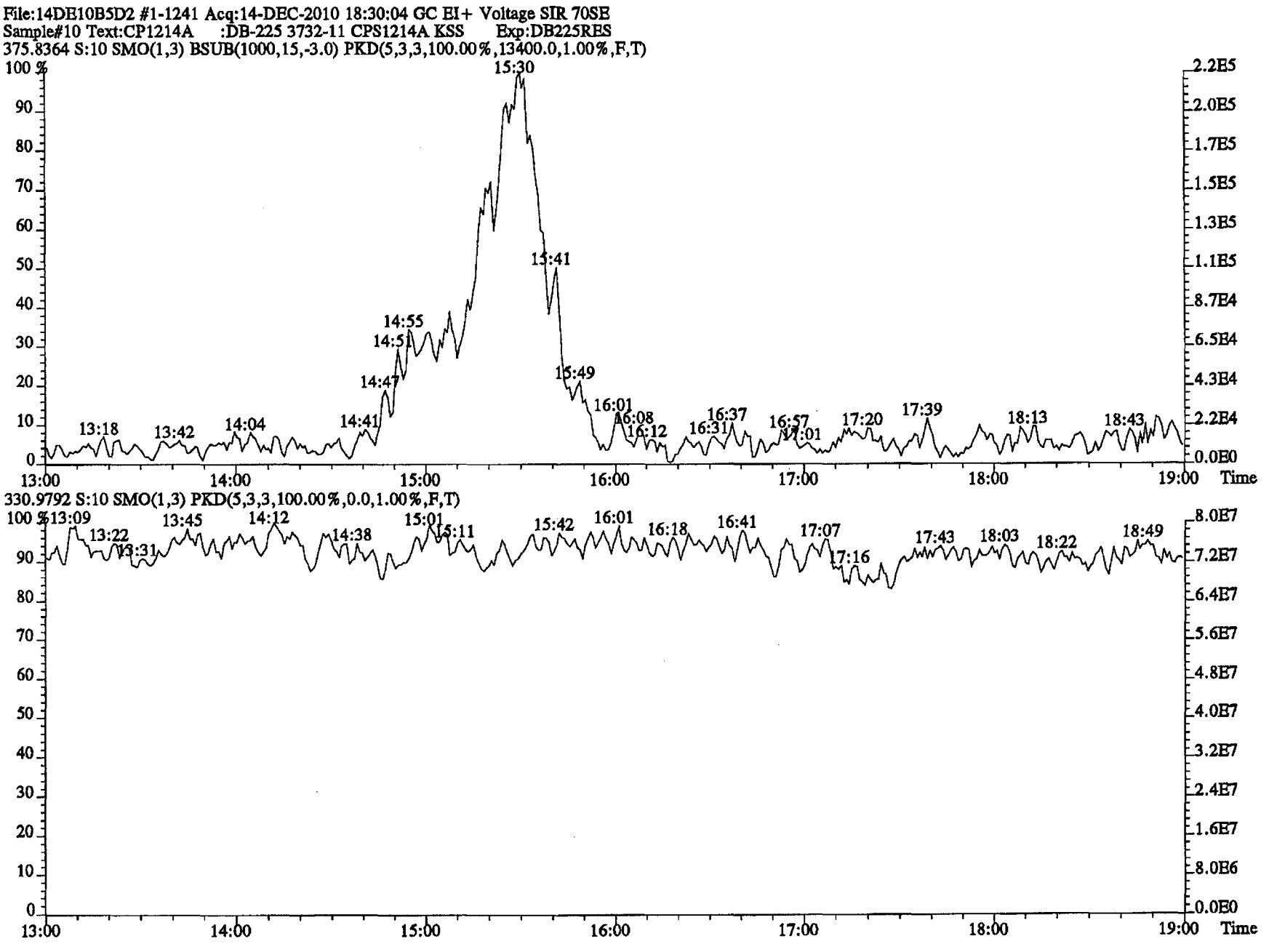


331.9368 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,31972.0,1.00%,F,T)



333.9339 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20444.0,1.00%,F,T)




File:14DE10B5D2 #1-1241 Acq:14-DEC-2010 18:30:04 GC EI+ Voltage SIR 70SE
Sample#10 Text:CP1214A :DB-225 3732-11 CPS1214A KSS Exp:DB225RES
375.8364 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,13400.0,1.00%,F,T)
100 %
90
80
70
60
50
40
30
20
10
0
15:30
15:41
14:55
14:51
14:47
15:49
16:01
16:08
16:12
16:37
16:31
16:57
17:01
17:20
17:39
18:13
18:43
13:18
13:42
14:04
14:41
2.2E5
2.0E5
1.7E5
1.5E5
1.3E5
1.1E5
8.7E4
6.5E4
4.3E4
2.2E4
0.0E0
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time
330.9792 S:10 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
100 %
13:09
13:22
13:31
13:45
14:12
14:38
15:01
15:11
15:42
16:01
16:18
16:41
17:07
17:16
17:43
18:03
18:22
18:49
8.0E7
7.2E7
6.4E7
5.6E7
4.8E7
4.0E7
3.2E7
2.4E7
1.6E7
8.0E6
0.0E0
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time

Sample Extraction/Preparation Log Copies and Checklists

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 0348441 **Test:** To-9

Prep Date: 12/14/10 **Holding Times:** 12/14/10 **NCM:** Y N

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1. **Holding times checked?** NCMs filed as appropriate	ECJ 12/14/10 ✓	✓
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: ECJ Date: 12/14/10

2nd Level Reviewer: [signature] Date: 12/15/10

Comments:

TestAmerica West Sacramento
High Resolution Prep Log
Dioxin/Furan Air Extraction

Batch: 0348441
MS Run #:
Prep Date: 12/13/2010

Box # 39

Shared QC Batch: same

Shares QC With: NA

Internal COC:	
Delivered to Inst.:	12/15/10
Inst Receipt:	

Method: IK TO-9
Matrix: S AIR
Extraction: 11 SOXHLET (NONE,Na2SO4)
QC: 3W AMBIENT AIR TESTING
SAC: IK - S - 11 - 3W 12/14/10

Soxhlet time on: 16:50 Soxhlet time off: 9:55 12/15/10

Prep Reagents		
Reagent	Supplier	Lot #
Toluene	Baker	J31N58
Hexane	Baker	J34E43
H2SO4	Baker	NA
20% DCM:Hexane	NA	3630-88C
65% DCM:Hexane	NA	3630-88A
1:1 DCM:Cyclohexane	NA	NA
75:20:5 DCM:Hexane:Benzene	NA	NA
Silica Gel	NA	4022-11A
Acid Alumina	MP	79
5% Carbon:Silica Gel	NA	NA

Extraction Table

Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size *	Final Volume 20uL	Final Volume Other	Analysis Hold Time Expires	Extraction ID	Round Bottom ID	Rotovap ID
G0L110441 - 2		MA8DF1AA	12/14/2010	1.0	✓		1/22/2011			5
G0L110441 - 5		MA8DJ1AA	12/14/2010	1.0	✓		1/22/2011			7
G0L110441 - 8		MA8DM1AA	12/15/2010	1.0	✓	12/15/10	1/22/2011			6
G0L110441 - 11		MA8DT1AA	12/15/2010	1.0	✓		1/22/2011			6
G0L140000 - 441	B	MCCX21AA	12/14/2010	1.0	✓		1/22/2011	12/15/10		5
G0L140000 - 441	C	MCCX21AC	12/14/2010	1.0	✓		1/22/2011			7
G0L140000 - 441	L	MCCX21AD	12/14/2010	1.0	✓		1/22/2011			6

* See attached sheet for sample volumes recorded from scale

Comments/NCMs: ______

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Internal Standard All Samples	2.0 mL / 10DXN 596 8260 SS/2-4(?)	10/22/11	[signature]	ECJ	12/14/10
Spike Mix LCS/LCSD/~~MS/MSD~~	100 µL / 10DXN 431/ 8280 NS/(?)	9/2/11	[signature]	ECJ	12/14/10
Pre-Spike Standard MB/~~LCS/LCSD~~	200 µL / 10 DXN 429/ 70-85(?)/8093(?)	7/12/11	[signature]	ECJ	12/14/10
Recovery Standard All Samples	20.0 µL 10DXN508	10/28/11	[signature]	[signature]	12/15/10
Soxhlet Extraction Analyst/Date	SV 12/14/10				

½ Split/Archive Analyst/Date 5.0 mL	Option C Analyst/Date	IFB Analyst/Date	D2 Analyst/Date
~~SV 12/14/10~~ SV 12/15(?) → DML/12/15/10	—	T.L 12/15/10	—

TestAmerica West Sacramento

Data Checklist
HRGCMS/LRGCMS Analyses

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Batch #: 0348441 Method ID: Dioxins/Furans, HRGC/HRMS (TO-9)

	DB-5	DB-225
Data Analyst:	BO	BO
Date initiated:	12/17/10	12/17/10
Reviewer:	[illegible]	
Date reviewed:	12/17/10	

QA/QC verification:	Initiated DB-5	Reviewed DB-5	Initiated DB-225 (High Res Only)	Reviewed DB-225 (High Res Only)
-Daily standard package(s) present?	✓	✓	✓	✓
-Method Blank present?	✓	✓	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)

(1) See NCM

* Recovery limits:		**RPD limits:
NCASI 551:	40-120%***	50%
Method 8290:	40-135%***	20%
Method 1613:	25-150%***	50%
Method 23:	40-130%***(Cl4-Cl6), 25-130%(Cl7-8), 70-130%(surr.)	50%
PCBs:	25-150%***	50%
Method 8280:	40-120%***	
DFLM01.0:	25-150%***	
Method 1614	25-150%***	

*** Lower recoveries are acceptable if I.S. S/N ≥10:1 and DL's are <LCL for target analytes.

QA-371 07/99 MAF

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 12/15/10
Time: 15:05:46

LEV 1	LEV 2		LEV 1	LEV 2	
Y	_	Blank	Y	_	Weights/Volumes
Y	_	Check	Y	_	Spike & Surrogate Worksheet
_	_	MS/MSD	Y	_	Vial contains correct volume
			Y	_	Labels, greenbars, worksheets
			_		computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
Y Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: 090182 Steve Valmores

Concentrationist: 006625 Elizabeth Nguyen

Reviewer/Date: NGUYENE / 12/15/10

QC BATCH: 0348441

PREP DATE: 12/13/10 16:30
COMP DATE: 12/15/10 17:00

Dioxins/Furans, HRGC/HRMS (TO-9)
SOXHLET (NONE,Na2SO4)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
12/14/10	12/17/10	G0L110441-002 **MA8DF-1-AA**	R	11	IK	AIR	**1.0Sample** 20.00uL	NA	NA	NA	TOLUENE	700.0		.0	2.0ML/10DXN598/8290 IS
COMMENTS:															
12/14/10	12/17/10	G0L110441-005 **MA8DJ-1-AA**	R	11	IK	AIR	**1.0Sample** 20.00uL	NA	NA	NA	TOLUENE	700.0		.0	2.0ML/10DXN598/8290 IS
COMMENTS:															
12/15/10	12/17/10	G0L110441-008 **MA8DM-1-AA**	R	11	IK	AIR	**1.0Sample** 20.00uL	NA	NA	NA	TOLUENE	700.0		.0	2.0ML/10DXN598/8290 IS
COMMENTS:															
12/15/10	12/17/10	G0L110441-011 **MA8DT-1-AA**	R	11	IK	AIR	**1.0Sample** 20.00uL	NA	NA	NA	TOLUENE	700.0		.0	2.0ML/10DXN598/8290 IS
COMMENTS:															
12/14/10	0/00/00	G0L140000-441 **MCCX2-1-AA**B		11	IK	AIR	**1.0Sample** 20.00uL	NA	NA	NA	TOLUENE	700.0		.0	200UL/10DXN429/TO-9 SURR 2.0ML/10DXN598/8290 IS
COMMENTS:															
12/14/10	0/00/00	G0L140000-441 **MCCX2-1-AC**C		11	IK	AIR	**1.0Sample** 20.00uL	NA	NA	NA	TOLUENE	700.0		.0	100UL/10DXN431/8290 NS 2.0ML/10DXN598/8290 IS
COMMENTS:															
12/14/10	0/00/00	G0L140000-441 **MCCX2-1-AD**L	R	11	IK	AIR	**1.0Sample** 20.00uL	NA	NA	NA	TOLUENE	700.0		.0	100UL/10DXN431/8290 NS 2.0ML/10DXN598/8290 IS
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)

NUMBER OF WORK ORDERS IN BATCH: 7

AIR, Metals by ICPMS (As and Mn)

Raw Data Package

ICPMS

Scanned

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ICP-MS Data Review Checklist
Level I and Level II

Instrument ID (Circle one): (M01) M02		Method 6020 SOP SAC-MT-0001	
File Number	Batch Numbers	Date	Analyst
10121581	348318, 348334, 349266, 348322, ~~348~~ 349267 SA 12-16-10	12-15-10	SA

Lot Numbers: G0L070462, G0L140448, G0L130422, G0L140445, G0L150435, G0L030535, G0L110441, G0L030531 (AL only)	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: MTL	DATA ENTERED BY: SA
DATE: 12/16/10	DATE: 12-16-10

Dataset Report

Perkin Elmer ICPMS M01
SOP No. SAC-MT-0001
Method 6020,200.8
User Name: metal
Computer Name: SACP317BFB
Dataset File Path: C:\elandata\Dataset\101215b1\
Report Date/Time: Thursday, December 16, 2010 05:51:59

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Description
	Rinse 2X	12:17:55 Wed 15-Dec-10	Sample	
	Blank	12:22:32 Wed 15-Dec-10	Blank	
	Standard 1	12:27:03 Wed 15-Dec-10	Standard #1	
	ICV	12:31:19 Wed 15-Dec-10	Sample	
	ICB	12:35:40 Wed 15-Dec-10	Sample	
	LLSTD1	12:39:58 Wed 15-Dec-10	Sample	LLSTD@10X
	LLSTD2	12:44:14 Wed 15-Dec-10	Sample	LLSTD@5X
	ICSA	12:48:31 Wed 15-Dec-10	Sample	
	ICSAB	12:52:49 Wed 15-Dec-10	Sample	
	Rinse	14:07:54 Wed 15-Dec-10	Sample	
	CCV 1 >Recal	14:12:39 Wed 15-Dec-10	Sample	
	CCB 1	14:17:00 Wed 15-Dec-10	Sample	
	CCV 2	14:23:21 Wed 15-Dec-10	Sample	
	CCB 2	14:27:43 Wed 15-Dec-10	Sample	
349266	MCDVDB	14:32:00 Wed 15-Dec-10	Sample	G0L150000-266 BLK
348334	MCCCRB	14:36:17 Wed 15-Dec-10	Sample	G0L140000-334 BLK
348318	MCA8DB	14:40:34 Wed 15-Dec-10	Sample	G0L140000-318 BLK
348318	MCA8DC	14:44:48 Wed 15-Dec-10	Sample	G0L140000-318 LCS
348318	MCA8DL	14:48:59 Wed 15-Dec-10	Sample	G0L140000-318 LCSD
348318	MA0J3	14:53:11 Wed 15-Dec-10	Sample	G0L070462-3
348318	MA0J3P5	14:57:23 Wed 15-Dec-10	Sample	G0L070462-3 5X
348318	MA0J3Z	15:01:36 Wed 15-Dec-10	Sample	G0L070462-3 PS
348318	MA0KG	15:05:49 Wed 15-Dec-10	Sample	G0L070462-4
	CCV 3	15:10:08 Wed 15-Dec-10	Sample	
	CCB 3	15:14:29 Wed 15-Dec-10	Sample	
	CCV 4	15:18:50 Wed 15-Dec-10	Sample	
	CCB 4	15:22:14 Wed 15-Dec-10	Sample	> cal down method
	CCV 5	15:25:38 Wed 15-Dec-10	Sample	
	CCB 5	15:29:02 Wed 15-Dec-10	Sample	
348334	MCCCRC	15:32:18 Wed 15-Dec-10	Sample	G0L140000-334 LCS
348334	MCCCRL	15:35:33 Wed 15-Dec-10	Sample	G0L140000-334 LCSD
348334	MCAJ6	15:38:48 Wed 15-Dec-10	Sample	G0L140448-1
348334	MCAJ6P5	15:42:05 Wed 15-Dec-10	Sample	G0L140448-1 5X
348334	MCAJ6X	15:45:21 Wed 15-Dec-10	Sample	G0L140448-1 DU
348334	MCAJ6Z	15:48:38 Wed 15-Dec-10	Sample	G0L140448-1 PS
348334	MCAJ7	15:51:56 Wed 15-Dec-10	Sample	G0L140448-2
348334	MCAJ8	15:55:14 Wed 15-Dec-10	Sample	G0L140448-3
348334	MCAJ9	15:58:32 Wed 15-Dec-10	Sample	G0L140448-4
348334	MCAKA	16:01:50 Wed 15-Dec-10	Sample	G0L140448-5
	CCV 6	16:05:14 Wed 15-Dec-10	Sample	
	CCB 6	16:08:38 Wed 15-Dec-10	Sample	
	CCV 7	16:12:02 Wed 15-Dec-10	Sample	
	CCB 7	16:15:25 Wed 15-Dec-10	Sample	
348334	MA87H	16:18:45 Wed 15-Dec-10	Sample	G0L130422-1
348334	MA87L	16:22:04 Wed 15-Dec-10	Sample	G0L130422-2
348334	MA87R	16:25:24 Wed 15-Dec-10	Sample	G0L130422-3
348334	MA87V	16:28:44 Wed 15-Dec-10	Sample	G0L130422-4
348334	MA871	16:32:05 Wed 15-Dec-10	Sample	G0L130422-5
348334	MCAJW	16:35:26 Wed 15-Dec-10	Sample	G0L140445-1

348334	MCAJX	16:38:47 Wed 15-Dec-10	Sample	G0L140445-2
348334	MCAJ0	16:42:05 Wed 15-Dec-10	Sample	G0L140445-3
348334	MCAJ1	16:45:19 Wed 15-Dec-10	Sample	G0L140445-4
348334	MCAJ2	16:48:34 Wed 15-Dec-10	Sample	G0L140445-5
	CCV 8	16:51:56 Wed 15-Dec-10	Sample	
	CCB 8	16:55:19 Wed 15-Dec-10	Sample	
	CCV 9	16:58:43 Wed 15-Dec-10	Sample	
	CCB 9	17:02:07 Wed 15-Dec-10	Sample	
349266	MCDVDC	17:05:24 Wed 15-Dec-10	Sample	G0L150000-266 LCS
349266	MCDVDL	17:08:39 Wed 15-Dec-10	Sample	G0L150000-266 LCSD
349266	MCDFR	17:11:55 Wed 15-Dec-10	Sample	G0L150435-1
349266	MCDFRP5	17:15:11 Wed 15-Dec-10	Sample	G0L150435-1 5X
349266	MCDFRX	17:18:27 Wed 15-Dec-10	Sample	G0L150435-1 DU
349266	MCDFRZ	17:21:43 Wed 15-Dec-10	Sample	G0L150435-1 PS
349266	MCDF1	17:25:00 Wed 15-Dec-10	Sample	G0L150435-2
349266	MCDF5	17:28:17 Wed 15-Dec-10	Sample	G0L150435-3
349266	MCDF7	17:31:35 Wed 15-Dec-10	Sample	G0L150435-4
349266	MCDF9	17:34:53 Wed 15-Dec-10	Sample	G0L150435-5
	CCV 10	17:38:16 Wed 15-Dec-10	Sample	
	CCB 10	17:41:40 Wed 15-Dec-10	Sample	
	CCV 11 ~~Recvd~~ SM 12-16-10	17:45:05 Wed 15-Dec-10	Sample	
	CCB 11	17:48:31 Wed 15-Dec-10	Sample	> cut down method / change method
	CCV 12	17:51:58 Wed 15-Dec-10	Sample	
	CCB 12	17:55:23 Wed 15-Dec-10	Sample	
348322	MCA9KB	17:58:44 Wed 15-Dec-10	Sample	G0L140000-322 BLK
348322	MCA9KC	18:02:02 Wed 15-Dec-10	Sample	G0L140000-322 LCS
348322	MCA9KL	18:05:17 Wed 15-Dec-10	Sample	G0L140000-322 LCSD
348322	MAT92	18:08:34 Wed 15-Dec-10	Sample	G0L030535-1
348322	MAT92P5	18:11:53 Wed 15-Dec-10	Sample	G0L030535-1 5X
348322	MAT92Z	18:15:12 Wed 15-Dec-10	Sample	G0L030535-1 PS
348322	MAVAA	18:18:31 Wed 15-Dec-10	Sample	G0L030535-2
348322	MAVAC	18:21:50 Wed 15-Dec-10	Sample	G0L030535-3
348322	MAVAE	18:25:10 Wed 15-Dec-10	Sample	G0L030535-4
348322	MAVAM	18:28:30 Wed 15-Dec-10	Sample	G0L030535-5
	CCV 13	18:31:55 Wed 15-Dec-10	Sample	
	CCB 13	18:35:21 Wed 15-Dec-10	Sample	
	CCV 14	18:38:47 Wed 15-Dec-10	Sample	
	CCB 14	18:42:13 Wed 15-Dec-10	Sample	
349267	MCDVGB	18:45:34 Wed 15-Dec-10	Sample	G0L150000-267 BLK
349267	MCDVGC	18:48:52 Wed 15-Dec-10	Sample	G0L150000-267 LCS
349267	MCDVGL	18:52:08 Wed 15-Dec-10	Sample	G0L150000-267 LCSD
349267	MA8C9	18:55:23 Wed 15-Dec-10	Sample	G0L110441-1
349267	MA8C9P5	18:58:37 Wed 15-Dec-10	Sample	G0L110441-1 5X
349267	MA8C9Z	19:01:51 Wed 15-Dec-10	Sample	G0L110441-1 PS
349267	MA8DH	19:05:04 Wed 15-Dec-10	Sample	G0L110441-4
349267	MA8DL	19:08:18 Wed 15-Dec-10	Sample	G0L110441-7
349267	MA8DR	19:11:33 Wed 15-Dec-10	Sample	G0L110441-10
	CCV 15	19:14:56 Wed 15-Dec-10	Sample	
	CCB 15	19:18:22 Wed 15-Dec-10	Sample	
	CCV 16	19:21:48 Wed 15-Dec-10	Sample	
	CCB 16	19:24:23 Wed 15-Dec-10	Sample	> cut down method
	CCV 17	19:26:58 Wed 15-Dec-10	Sample	
	CCB 17	19:29:33 Wed 15-Dec-10	Sample	
347255	MA9E7B	19:32:03 Wed 15-Dec-10	Sample	G0L130000-255 BLK
347255	MA9E7C	19:34:31 Wed 15-Dec-10	Sample	G0L130000-255 LCS
347255	MA9E7L	19:36:57 Wed 15-Dec-10	Sample	G0L130000-255 LCSD
347255	MAT82	19:39:22 Wed 15-Dec-10	Sample	G0L030531-1
347255	MAT82P5	19:41:47 Wed 15-Dec-10	Sample	G0L030531-1 5X
347255	MAT82Z	19:44:12 Wed 15-Dec-10	Sample	G0L030531-1 PS
347255	MAT83	19:46:38 Wed 15-Dec-10	Sample	G0L030531-2

run A1 (no closing ICSA ICSAB

347255	MAT84	19:49:04 Wed 15-Dec-10	Sample	G0L030531-3
	CCV 18	19:51:36 Wed 15-Dec-10	Sample	
	CCB 18	19:54:11 Wed 15-Dec-10	Sample	
	CCV 19	19:56:46 Wed 15-Dec-10	Sample	
	CCB 19	19:59:21 Wed 15-Dec-10	Sample	
347255	MAT85	20:01:50 Wed 15-Dec-10	Sample	G0L030531-4
347255	MAT86	20:04:16 Wed 15-Dec-10	Sample	G0L030531-5
347255	MAT87	20:06:43 Wed 15-Dec-10	Sample	G0L030531-6
347255	MAT88	20:09:10 Wed 15-Dec-10	Sample	G0L030531-7
347255	MAT89	20:11:38 Wed 15-Dec-10	Sample	G0L030531-8
	ICSA	20:14:09 Wed 15-Dec-10	Sample	
	ICSAB	20:16:39 Wed 15-Dec-10	Sample	
	CCV 20	20:22:51 Wed 15-Dec-10	Sample	
	CCB 20	20:25:27 Wed 15-Dec-10	Sample	
	CCV 21	20:28:02 Wed 15-Dec-10	Sample	
	CCB 21	20:32:26 Wed 15-Dec-10	Sample	
	CCV 22	20:36:50 Wed 15-Dec-10	Sample	
	CCB 22	20:41:13 Wed 15-Dec-10	Sample	
	PART 1	20:45:29 Wed 15-Dec-10	Sample	PART 1 100X - 3189-7
	PART 2	20:49:42 Wed 15-Dec-10	Sample	PART 2 100X - 3189-5
	CCV 23	20:54:03 Wed 15-Dec-10	Sample	
	CCB 23	20:58:26 Wed 15-Dec-10	Sample	

TAL West Sac

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) | Instrument: M01 | Reported: 12/16/10 07:18:32

File ID: 101215B1 **Analyst: hargraves**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	Rinse 2X				2.0	12/15/10 12:17		☐
2	Blank				1.0	12/15/10 12:22		☐
3	Standard1				1.0	12/15/10 12:27		☐
4	ICV				1.0	12/15/10 12:31		☐
5	ICB				1.0	12/15/10 12:35		☐
6	LLSTD1				1.0	12/15/10 12:39		☐
7	LLSTD2				1.0	12/15/10 12:44		☐
8	ICSA				1.0	12/15/10 12:48		☐
9	ICSAB				1.0	12/15/10 12:52		☐
10	Rinse				1.0	12/15/10 14:07		☐
11	CCV 1				1.0	12/15/10 14:12		☐
12	CCB 1				1.0	12/15/10 14:17		☐
15	CCV 2				1.0	12/15/10 14:23		☐
16	CCB 2				1.0	12/15/10 14:27		☐
17	MCDVDB	G0L150000	0349266	2A	1.0	12/15/10 14:32		☐
18	MCCCRB	G0L140000	0348334	2A	1.0	12/15/10 14:36		☐
19	MCA8DB	G0L140000	0348318	2A	1.0	12/15/10 14:40		☐
20	MCA8DC	G0L140000	0348318	2A	1.0	12/15/10 14:44		☐
21	MCA8DL	G0L140000	0348318	2A	1.0	12/15/10 14:48		☐
22	MA0J3	G0L070462-3	0348318	2A	1.0	12/15/10 14:53		☐
23	MA0J3P5	G0L070462	0348318		5.0	12/15/10 14:57		☐
24	MA0J3Z	G0L070462-3	0348318		1.0	12/15/10 15:01		☐
25	MA0KG	G0L070462-4	0348318	2A	1.0	12/15/10 15:05		☐
26	CCV 3				1.0	12/15/10 15:10		☐
27	CCB 3				1.0	12/15/10 15:14		☐
28	CCV 4				1.0	12/15/10 15:18		☐
29	CCB 4				1.0	12/15/10 15:22		☐
30	CCV 5				1.0	12/15/10 15:25		☐
31	CCB 5				1.0	12/15/10 15:29		☐
32	MCCCRC	G0L140000	0348334	2A	1.0	12/15/10 15:32		☐
33	MCCCRL	G0L140000	0348334	2A	1.0	12/15/10 15:35		☐
34	MCAJ6	G0L140448-1	0348334	2A	1.0	12/15/10 15:38		☐
35	MCAJ6P5	G0L140448	0348334		5.0	12/15/10 15:42		☐
36	MCAJ6X	G0L140448-1	0348334	2A	1.0	12/15/10 15:45		☐
37	MCAJ6Z	G0L140448-1	0348334		1.0	12/15/10 15:48		☐
38	MCAJ7	G0L140448-2	0348334	2A	1.0	12/15/10 15:51		☐
39	MCAJ8	G0L140448-3	0348334	2A	1.0	12/15/10 15:55		☐
40	MCAJ9	G0L140448-4	0348334	2A	1.0	12/15/10 15:58		☐
41	MCAKA	G0L140448-5	0348334	2A	1.0	12/15/10 16:01		☐
42	CCV 6				1.0	12/15/10 16:05		☐
43	CCB 6				1.0	12/15/10 16:08		☐
44	CCV 7				1.0	12/15/10 16:12		☐
45	CCB 7				1.0	12/15/10 16:15		☐
46	MA87H	G0L130422-1	0348334	2A	1.0	12/15/10 16:18		☐
47	MA87L	G0L130422-2	0348334	2A	1.0	12/15/10 16:22		☐
48	MA87R	G0L130422-3	0348334	2A	1.0	12/15/10 16:25		☐

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 12/16/10 07:18:32

File ID: 101215B1 **Analyst:** hargraves

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
49	MA87V	G0L130422-4	0348334	2A	1.0	12/15/10 16:28		☐
50	MA871	G0L130422-5	0348334	2A	1.0	12/15/10 16:32		☐
51	MCAJW	G0L140445-1	0348334	2A	1.0	12/15/10 16:35		☐
52	MCAJX	G0L140445-2	0348334	2A	1.0	12/15/10 16:38		☐
53	MCAJ0	G0L140445-3	0348334	2A	1.0	12/15/10 16:42		☐
54	MCAJ1	G0L140445-4	0348334	2A	1.0	12/15/10 16:45		☐
55	MCAJ2	G0L140445-5	0348334	2A	1.0	12/15/10 16:48		☐
56	CCV 8				1.0	12/15/10 16:51		☐
57	CCB 8				1.0	12/15/10 16:55		☐
58	CCV 9				1.0	12/15/10 16:58		☐
59	CCB 9				1.0	12/15/10 17:02		☐
60	MCDVDC	G0L150000	0349266	2A	1.0	12/15/10 17:05		☐
61	MCDVDL	G0L150000	0349266	2A	1.0	12/15/10 17:08		☐
62	MCDFR	G0L150435-1	0349266	2A	1.0	12/15/10 17:11		☐
63	MCDFRP5	G0L150435	0349266		5.0	12/15/10 17:15		☐
64	MCDFRX	G0L150435-1	0349266	2A	1.0	12/15/10 17:18		☐
65	MCDFRZ	G0L150435-1	0349266		1.0	12/15/10 17:21		☐
66	MCDF1	G0L150435-2	0349266	2A	1.0	12/15/10 17:25		☐
67	MCDF5	G0L150435-3	0349266	2A	1.0	12/15/10 17:28		☐
68	MCDF7	G0L150435-4	0349266	2A	1.0	12/15/10 17:31		☐
69	MCDF9	G0L150435-5	0349266	2A	1.0	12/15/10 17:34		☐
70	CCV 10				1.0	12/15/10 17:38		☐
71	CCB 10				1.0	12/15/10 17:41		☐
72	CCV 11				1.0	12/15/10 17:45		☐
73	CCB 11				1.0	12/15/10 17:48		☐
74	CCV 12				1.0	12/15/10 17:51		☐
75	CCB 12				1.0	12/15/10 17:55		☐
76	MCA9KB	G0L140000	0348322	2A	1.0	12/15/10 17:58		☐
77	MCA9KC	G0L140000	0348322	2A	1.0	12/15/10 18:02		☐
78	MCA9KL	G0L140000	0348322	2A	1.0	12/15/10 18:05		☐
79	MAT92	G0L030535-1	0348322	2A	1.0	12/15/10 18:08		☐
80	MAT92P5	G0L030535	0348322		5.0	12/15/10 18:11		☐
81	MAT92Z	G0L030535-1	0348322		1.0	12/15/10 18:15		☐
82	MAVAA	G0L030535-2	0348322	2A	1.0	12/15/10 18:18		☐
83	MAVAC	G0L030535-3	0348322	2A	1.0	12/15/10 18:21		☐
84	MAVAE	G0L030535-4	0348322	2A	1.0	12/15/10 18:25		☐
85	MAVAM	G0L030535-5	0348322	2A	1.0	12/15/10 18:28		☐
86	CCV 13				1.0	12/15/10 18:31		☐
87	CCB 13				1.0	12/15/10 18:35		☐
88	CCV 14				1.0	12/15/10 18:38		☐
89	CCB 14				1.0	12/15/10 18:42		☐
90	MCDVGB	G0L150000	0349267	2A	1.0	12/15/10 18:45		☐
91	MCDVGC	G0L150000	0349267	2A	1.0	12/15/10 18:48		☐
92	MCDVGL	G0L150000	0349267	2A	1.0	12/15/10 18:52		☐
93	MA8C9	G0L110441-1	0349267	2A	1.0	12/15/10 18:55		☐
94	MA8C9P5	G0L110441	0349267		5.0	12/15/10 18:58		☐

TAL West Sac

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) | Instrument: M01 | Reported: 12/16/10 07:18:32

File ID: 101215B1 **Analyst: hargraves**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
95	MA8C9Z	G0L110441-1	0349267		1.0	12/15/10 19:01		☐
96	MA8DH	G0L110441-4	0349267	2A	1.0	12/15/10 19:05		☐
97	MA8DL	G0L110441-7	0349267	2A	1.0	12/15/10 19:08		☐
98	MA8DR	G0L110441-10	0349267	2A	1.0	12/15/10 19:11		☐
99	CCV 15				1.0	12/15/10 19:14		☐
100	CCB 15				1.0	12/15/10 19:18		☐

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) | M01 (M01) | Reported: 12/16/10 07:18:32

File ID: 101215B1 **Analyst:** hargraves

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
1	Rinse 2X	12/15/10 12:17	98.7	100.0	100.5	0.0	☐
2	Blank	12/15/10 12:22	100.0	100.0	100.0	100.0	☑
3	Standard1	12/15/10 12:27	98.2	95.9	102.4	97.0	☑
4	ICV	12/15/10 12:31	98.0	97.6	104.5	98.4	☑
5	ICB	12/15/10 12:35	98.1	97.8	103.8	98.7	☑
6	LLSTD1	12/15/10 12:39	99.5	98.3	100.6	99.2	☑
7	LLSTD2	12/15/10 12:44	99.5	98.2	99.0	97.9	☑
8	ICSA	12/15/10 12:48	89.7	87.3	92.8	83.2	☑
9	ICSAB	12/15/10 12:52	90.8	89.0	92.8	83.9	☑
10	Rinse	12/15/10 14:07	106.0	101.6	128.5	100.2	☑
11	CCV 1	12/15/10 14:12	102.5	96.2	126.0	96.4	☑
12	CCB 1	12/15/10 14:17	102.0	99.2	124.5	98.6	☑
15	CCV 2	12/15/10 14:23	98.4	95.9	100.2	97.5	☑
16	CCB 2	12/15/10 14:27	99.4	97.3	98.1	99.0	☑
17	MCDVDB	12/15/10 14:32	100.1	100.7	95.7	100.9	☑
18	MCCCRB	12/15/10 14:36	101.9	101.8	98.0	103.2	☑
19	MCA8DB	12/15/10 14:40	102.2	102.4	97.6	103.2	☑
20	MCA8DC	12/15/10 14:44	97.6	98.8	98.9	100.2	☑
21	MCA8DL	12/15/10 14:48	96.3	98.1	100.2	99.6	☑
22	MA0J3	12/15/10 14:53	98.3	98.3	99.1	99.8	☑
23	MA0J3P5	12/15/10 14:57	99.2	97.4	100.2	98.8	☐
24	MA0J3Z	12/15/10 15:01	95.6	96.3	101.5	98.2	☑
25	MA0KG	12/15/10 15:05	96.4	96.6	100.2	98.8	☑
26	CCV 3	12/15/10 15:10	97.5	95.3	104.3	96.8	☑
27	CCB 3	12/15/10 15:14	98.1	96.1	102.6	98.0	☑
28	CCV 4	12/15/10 15:18	95.7	96.1	105.8	98.4	☑
29	CCB 4	12/15/10 15:22	96.5	98.1	107.3	100.2	☑
30	CCV 5	12/15/10 15:25	97.0	96.4	107.3	99.5	☑
31	CCB 5	12/15/10 15:29	97.5	98.7	105.9	101.3	☑
32	MCCCRC	12/15/10 15:32	95.3	98.2	105.6	100.7	☑
33	MCCCRL	12/15/10 15:35	93.4	98.1	106.9	99.8	☑
34	MCAJ6	12/15/10 15:38	96.4	99.6	106.3	102.0	☑
35	MCAJ6P5	12/15/10 15:42	96.0	96.9	106.5	100.0	☐
36	MCAJ6X	12/15/10 15:45	98.4	101.6	109.3	103.4	☑
37	MCAJ6Z	12/15/10 15:48	94.5	98.0	109.1	100.4	☑
38	MCAJ7	12/15/10 15:51	95.8	99.0	106.5	100.5	☑
39	MCAJ8	12/15/10 15:55	99.4	101.7	109.6	103.3	☑
40	MCAJ9	12/15/10 15:58	99.0	100.6	105.1	102.6	☑
41	MCAKA	12/15/10 16:01	99.1	101.2	106.1	102.9	☑
42	CCV 6	12/15/10 16:05	99.4	98.8	109.4	100.6	☑
43	CCB 6	12/15/10 16:08	99.5	100.5	108.3	102.8	☑
44	CCV 7	12/15/10 16:12	99.2	99.2	109.0	101.7	☑
45	CCB 7	12/15/10 16:15	99.4	100.2	106.4	102.3	☑
46	MA87H	12/15/10 16:18	100.6	102.7	105.4	104.7	☑
47	MA87L	12/15/10 16:22	103.5	103.8	105.8	105.0	☑
48	MA87R	12/15/10 16:25	102.3	102.1	103.8	103.5	☑

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) | M01 (M01) | Reported: 12/16/10 07:18:32

File ID: 101215B1 **Analyst:** hargraves

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
49	MA87V	12/15/10 16:28	103.4	102.4	105.2	103.4	☑
50	MA871	12/15/10 16:32	102.9	103.2	105.2	105.6	☑
51	MCAJW	12/15/10 16:35	105.6	105.4	107.6	107.8	☑
52	MCAJX	12/15/10 16:38	106.1	105.9	109.3	107.8	☑
53	MCAJ0	12/15/10 16:42	105.9	105.3	108.7	105.8	☑
54	MCAJ1	12/15/10 16:45	104.1	103.9	109.5	105.0	☑
55	MCAJ2	12/15/10 16:48	105.2	106.3	110.3	108.0	☑
56	CCV 8	12/15/10 16:51	102.3	99.0	111.6	101.7	☑
57	CCB 8	12/15/10 16:55	101.6	101.5	113.7	103.8	☑
58	CCV 9	12/15/10 16:58	100.9	98.8	112.5	101.7	☑
59	CCB 9	12/15/10 17:02	101.2	100.6	111.3	102.7	☑
60	MCDVDC	12/15/10 17:05	99.3	100.1	110.8	103.7	☑
61	MCDVDL	12/15/10 17:08	98.2	100.9	112.7	104.8	☑
62	MCDFR	12/15/10 17:11	99.4	102.2	110.0	104.5	☑
63	MCDFRP5	12/15/10 17:15	102.3	103.0	112.3	105.0	☐
64	MCDFRX	12/15/10 17:18	103.6	105.3	111.0	106.7	☑
65	MCDFRZ	12/15/10 17:21	100.6	100.2	109.4	102.3	☑
66	MCDF1	12/15/10 17:25	100.4	100.5	106.5	101.8	☑
67	MCDF5	12/15/10 17:28	103.7	102.2	108.1	103.5	☑
68	MCDF7	12/15/10 17:31	103.9	103.5	108.0	103.2	☑
69	MCDF9	12/15/10 17:34	105.1	103.3	109.1	104.2	☑
70	CCV 10	12/15/10 17:38	101.2	98.2	110.5	98.6	☑
71	CCB 10	12/15/10 17:41	101.3	99.1	111.2	101.5	☑
72	CCV 11	12/15/10 17:45	99.7	96.2		97.7	☑
73	CCB 11	12/15/10 17:48	99.3	98.5		99.3	☑
74	CCV 12	12/15/10 17:51	100.1	97.1		98.2	☑
75	CCB 12	12/15/10 17:55	99.4	98.3		99.0	☑
76	MCA9KB	12/15/10 17:58	102.1	101.3		102.8	☑
77	MCA9KC	12/15/10 18:02	99.6	100.0		102.0	☑
78	MCA9KL	12/15/10 18:05	98.3	98.8		100.6	☑
79	MAT92	12/15/10 18:08	99.2	99.6		100.8	☑
80	MAT92P5	12/15/10 18:11	100.8	99.7		99.9	☐
81	MAT92Z	12/15/10 18:15	99.6	99.2		100.1	☑
82	MAVAA	12/15/10 18:18	100.4	100.7		100.9	☑
83	MAVAC	12/15/10 18:21	102.6	101.9		101.9	☑
84	MAVAE	12/15/10 18:25	104.6	102.0		101.6	☑
85	MAVAM	12/15/10 18:28	105.0	103.4		101.7	☑
86	CCV 13	12/15/10 18:31	102.0	98.2		98.5	☑
87	CCB 13	12/15/10 18:35	101.1	97.7		98.7	☑
88	CCV 14	12/15/10 18:38	100.0	96.5		97.3	☑
89	CCB 14	12/15/10 18:42	99.9	97.2		97.7	☑
90	MCDVGB	12/15/10 18:45	101.4	101.0		101.0	☑
91	MCDVGC	12/15/10 18:48	100.6	100.1		100.6	☑
92	MCDVGL	12/15/10 18:52	97.3	97.2		99.1	☑
93	MA8C9	12/15/10 18:55	98.5	98.4		99.1	☑
94	MA8C9P5	12/15/10 18:58	100.0	98.1		99.0	☐

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) | M01 (M01) | Reported: 12/16/10 07:18:32

File ID: 101215B1 **Analyst:** hargraves

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
95	MA8C9Z	12/15/10 19:01	98.3	97.4		98.3	☑
96	MA8DH	12/15/10 19:05	100.2	99.6		99.4	☑
97	MA8DL	12/15/10 19:08	100.0	99.6		100.3	☑
98	MA8DR	12/15/10 19:11	102.1	100.8		100.8	☑
99	CCV 15	12/15/10 19:14	100.6	96.6		97.6	☑
100	CCB 15	12/15/10 19:18	99.3	96.7		97.4	☑

TAL-W.SACRAMENTO - Elan 6000 ICPMS Perkin Elmer M01 Quantitative Method Report

File Name: 000-USGS.mth
File Path: C:\elandata\Method\000-USGS.mth

Timing Parameters

Sweeps/Reading:	50
Readings/Replicate:	1
Number of Replicates:	3
Tuning File:	c:\elandata\Tuning\default.tun
Optimization File:	c:\elandata\Optimize\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
Al	26.982	Peak Hopping	1	14.0 ms	700 ms
Ca	43.956	Peak Hopping	1	14.0 ms	700 ms
V	50.944	Peak Hopping	1	14.0 ms	700 ms
Cr	51.941	Peak Hopping	1	14.0 ms	700 ms
Mn	54.938	Peak Hopping	1	14.0 ms	700 ms
Fe	53.940	Peak Hopping	1	14.0 ms	700 ms
Fe	56.935	Peak Hopping	1	14.0 ms	700 ms
Co	58.933	Peak Hopping	1	14.0 ms	700 ms
Ni	59.933	Peak Hopping	1	14.0 ms	700 ms
Cu	64.928	Peak Hopping	1	14.0 ms	700 ms
Zn	67.925	Peak Hopping	1	14.0 ms	700 ms
As	74.922	Peak Hopping	1	20.0 ms	1000 ms
Se	81.917	Peak Hopping	1	20.0 ms	1000 ms
Ge-1	71.922	Peak Hopping	1	14.0 ms	700 ms
Ag	106.905	Peak Hopping	1	14.0 ms	700 ms
Cd	110.904	Peak Hopping	1	14.0 ms	700 ms
Sb	120.904	Peak Hopping	1	14.0 ms	700 ms
Ba	134.906	Peak Hopping	1	14.0 ms	700 ms
In-1	114.904	Peak Hopping	1	14.0 ms	700 ms
Tl	204.975	Peak Hopping	1	14.0 ms	700 ms
Pb	207.977	Peak Hopping	1	14.0 ms	700 ms
Tm-1	168.934	Peak Hopping	1	14.0 ms	700 ms
Cr	49.946	Peak Hopping	1	5.0 ms	250 ms
Cr	52.941	Peak Hopping	1	5.0 ms	250 ms
Ni	60.931	Peak Hopping	1	5.0 ms	250 ms
Cu	62.930	Peak Hopping	1	5.0 ms	250 ms
Zn	66.927	Peak Hopping	1	5.0 ms	250 ms
Zn	65.926	Peak Hopping	1	5.0 ms	250 ms
Se	75.919	Peak Hopping	1	5.0 ms	250 ms
Se	76.920	Peak Hopping	1	20.0 ms	1000 ms
Se	77.917	Peak Hopping	1	20.0 ms	1000 ms
Br	78.918	Peak Hopping	1	20.0 ms	1000 ms
Ge	71.922	Peak Hopping	1	14.0 ms	700 ms
Cd	107.904	Peak Hopping	1	5.0 ms	250 ms
Cd	113.904	Peak Hopping	1	14.0 ms	700 ms
Ag	108.905	Peak Hopping	1	5.0 ms	250 ms

In	114.904	Peak Hopping	1	14.0 ms	700 ms
207.977	207.977	Peak Hopping	1	14.0 ms	700 ms
Pb	206.976	Peak Hopping	1	14.0 ms	700 ms
Pb	205.975	Peak Hopping	1	14.0 ms	700 ms
Tm	168.934	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
V	50.944	-3.108 * Cr 53 + 0.3524 * Cr 52
Fe	53.940	- 0.028226 * Cr 52
Fe	56.935	-0.074 * Ca 43
Ni	59.933	-0.005 * Ca 43
Cu	64.928	-0.0078 * Ti 49
Zn	67.925	-0.015 * Ba 136
As	74.922	-3.1278 * Se 77 + 1.0177 * Se 78
Se	81.917	- 0.00193 * Br 79
Cd	110.904	-1.073 * Pd 108 + 0.712 * Pd 106
In-1	114.904	- 0.014032 * Sn 118
Pb	207.977	+ 1.0 * Pb 207 + 1.0 * Pb 206
Cr	49.946	- 0.739726 * Ti 47 - 0.002506 * V 51
Se	75.919	- 0.268980 * Ge 72
Se	77.917	- 0.030435 * Kr 83
Cd	107.904	- 1.184953 * Pd 105
Cd	113.904	- 0.026826 * Sn 118
In	114.904	- 0.014032 * Sn 118

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			
Al	26.982	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Ca	43.956	Linear Thru Zero	ug/L	ug/L	5.1e+003			
V	50.944	Linear Thru Zero	ug/L	ug/L	100			
Cr	51.941	Linear Thru Zero	ug/L	ug/L	100			
Mn	54.938	Linear Thru Zero	ug/L	ug/L	100			
Fe	53.940	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Fe	56.935	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Co	58.933	Linear Thru Zero	ug/L	ug/L	100			
Ni	59.933	Linear Thru Zero	ug/L	ug/L	100			
Cu	64.928	Linear Thru Zero	ug/L	ug/L	100			
Zn	67.925	Linear Thru Zero	ug/L	ug/L	100			
As	74.922	Linear Thru Zero	ug/L	ug/L	100			
Se	81.917	Linear Thru Zero	ug/L	ug/L	100			

Ge-1	71.922	Linear Thru Zero	ug/L	ug/L	
Ag	106.905	Linear Thru Zero	ug/L	ug/L	50
Cd	110.904	Linear Thru Zero	ug/L	ug/L	100
Sb	120.904	Linear Thru Zero	ug/L	ug/L	50
Ba	134.906	Linear Thru Zero	ug/L	ug/L	100
In-1	114.904	Linear Thru Zero	ug/L	ug/L	
Tl	204.975	Linear Thru Zero	ug/L	ug/L	50
Pb	207.977	Linear Thru Zero	ug/L	ug/L	100
Tm-1	168.934	Linear Thru Zero	ug/L	ug/L	
Cr	49.946	Linear Thru Zero	ug/L	ug/L	100
Cr	52.941	Linear Thru Zero	ug/L	ug/L	100
Ni	60.931	Linear Thru Zero	ug/L	ug/L	100
Cu	62.930	Linear Thru Zero	ug/L	ug/L	100
Zn	66.927	Linear Thru Zero	ug/L	ug/L	100
Zn	65.926	Linear Thru Zero	ug/L	ug/L	100
Se	75.919	Linear Thru Zero	ug/L	ug/L	100
Se	76.920	Linear Thru Zero	ug/L	ug/L	100
Se	77.917	Linear Thru Zero	ug/L	ug/L	100
Br	78.918	Linear Thru Zero	ug/L	ug/L	100
Ge	71.922	Linear Thru Zero	ug/L	ug/L	
Cd	107.904	Linear Thru Zero	ug/L	ug/L	100
Cd	113.904	Linear Thru Zero	ug/L	ug/L	100
Ag	108.905	Linear Thru Zero	ug/L	ug/L	50
In	114.904	Linear Thru Zero	ug/L	ug/L	
207.97	207.977	Linear Thru Zero	ug/L	ug/L	100
Pb	206.976	Linear Thru Zero	ug/L	ug/L	100
Pb	205.975	Linear Thru Zero	ug/L	ug/L	100
Tm	168.934	Linear Thru Zero	ug/L	ug/L	

TAL-W. SACRAMENTO - Perkin Elmer Elan 6000 ICPMS, M01 – Methods 6020, 200.8

AIR TOX STANDARDS - 4 % HNO3, 0.5 % HCl

Standards for run:

Tuning standard: 4075-25B

Internal standard: 4075-22B

Blank, CCBs: 3185-42D

Standard 1, CCVs: 4075-27E

ICV: 4075-20D

ICSA: 4075-29A

ICSAB: 4075-28E

File Number: **101215B1**

Instrument Tuning Report - Elan 6000

File Name: default.tun

Sample Information

Sample Date/Time: Wednesday, December 15, 2010 12:12:36

Sample ID: CCB 1

Analyte	Exact Mass	Meas. Mass	Mass DAC	Meas. Pk. Width	Res. DAC	Custom Res.
Li	7.016	7.077	1584	0.755	2039	
Be	9.012	9.079	2053	0.759	2031	
Mg	23.985	23.978	5727	0.718	1976	
Co	58.933	58.979	14297	0.726	1887	
In	114.904	114.928	27960	0.733	1842	
Ce	139.905	139.928	34045	0.731	1881	
Tl	204.975	204.979	49759	0.733	2096	
Pb	207.977	207.978	50484	0.731	2111	
U	238.050	238.026	57706	0.737	2273	

Elan 6000 Instrument Optomization Report

File Name c:\elandata\Optimize\default.dac
Path c:\elandata\Optimize

Sample Information

Sample Date/Time: Wednesday, December 15, 2010 12:12:36
Sample ID: CCB 1

Parameter Settings

Nebulizer Gas Flow	0.8
Lens Voltage	6.8
ICP RF Power	1050.0
Analog Stage Voltage	-1725.0
Pulse Stage Voltage	1300.0
Discriminator Threshold	70.0
AC Rod Offset	-7.0
Service DAC 1	60.0
Quadrupole Rod Offset	0.0

AutoLens Calibration

Date:	11:21:54 Wed 15-Dec-10
Sample Filename:	TUNE SHARGRAVE.002
Dataset Pathname:	101215a1\
Lens Voltage Start:	5.50 V
Lens Voltage End:	10.00 V
Lens Voltage Step:	0.25 V
Slope:	0.0236
Intercept:	6.5626

Analyte	Mass	Optimum Voltage	Maximum Intensity	# Points
Be	9.012	6.8 V	4762 cps	19
Co	58.933	8.0 V	180780 cps	19
In	114.904	9.3 V	393772 cps	19

Dual Detector Calibration

Date:	13:16:18 Mon 06-Dec-10
Sample Filename:	DAILY SHARGRAVE.1153
Dataset Pathname:	dual detector calibration\
Points Acquired:	37
Lens Voltage Start:	-3.00 V
Lens Voltage End:	15.00 V
Lens Voltage Step:	0.50 V

Analyte	Mass	Gain	N(max)
Li	6.015	5932	2.11e+009 cps
Li	7.016	5535	2.26e+009 cps
Be	9.012	5043	2.48e+009 cps
B	11.009	5168	2.42e+009 cps
Na	22.990	5069	2.47e+009 cps

Report Date/Time: Wednesday, December 15, 2010 12:16:07
Page 1

Mg	23.985	4703	2.66e+009 cps
Mg	24.986	4616	2.71e+009 cps
Al	26.982	4346	2.88e+009 cps
P	30.994	4128	3.03e+009 cps
K	38.964	3943	3.17e+009 cps
Ca	42.959		cps
Ca	43.956	3943	3.17e+009 cps
Sc	44.956	3972	3.15e+009 cps
V	50.944	3968	3.15e+009 cps
Cr	51.941	3714	3.37e+009 cps
Fe	53.940	3682	3.40e+009 cps
Mn	54.938	3659	3.42e+009 cps
Fe	56.935	3603	3.47e+009 cps
Co	58.933	3524	3.55e+009 cps
Ni	59.933	3445	3.63e+009 cps
Cu	62.930	3352	3.73e+009 cps
Cu	64.928	3328	3.76e+009 cps
Zn	67.925	3369	3.72e+009 cps
Ge	71.922	3430	3.65e+009 cps
As	74.922	3392	3.69e+009 cps
Se	77.917	3446	3.63e+009 cps
Br	78.918		cps
Se	81.917	3364	3.72e+009 cps
Sr	87.906		cps
Mo	96.906	3398	3.68e+009 cps
Ag	106.905	3086	4.06e+009 cps
Ag	108.905	3459	3.62e+009 cps
Cd	110.904	3125	4.01e+009 cps
Cd	113.904	3112	4.02e+009 cps
In	114.904	3133	4.00e+009 cps
Sn	117.902	3162	3.96e+009 cps
Sb	120.904	3163	3.96e+009 cps
Ba	134.906	3064	4.09e+009 cps
Tm	168.934	2957	4.23e+009 cps
Tl	204.975	2797	4.47e+009 cps
Pb	207.977	2810	4.45e+009 cps
Bi	208.980		cps
U	238.050	2783	4.50e+009 cps

Daily Performance Report - Elan 6000

Sample ID: DAILY SHARGRAVE
Sample Date/Time: Wednesday, December 15, 2010 11:28:28
Sample Description:
Sample File: C:\elandata\Sample\0344269X.sam
Method File: C:\elandata\Method\000-DAILY_EPA.mth
Dataset File: C:\elandata\Dataset\101215a1\DAILY SHARGRAVE.004
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Number of Replicates: 5
Dual Detector Mode: Dual

Summary

	Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24	34747.182	1028.530	2.960
	Rh	103	261749.030	860.291	0.329
	Pb	208	192077.136	1143.425	0.595
⌈>	Ba	138	272793.611	1512.171	0.554
⌊	Ba++	69	0.026	0.001	2.392
⌈>	Ce	140	345006.662	2356.382	0.683
⌊	CeO	156	0.027	0.000	0.683
	Bkgd	220	7.143	1.750	24.495
	Li	7	24668.295	566.005	2.294
	Be	9	2183.119	49.715	2.277
	Co	59	110396.116	1832.707	1.660
	In	115	1621016.173	38450.819	2.372
	Tl	205	263332.400	2925.642	1.111

Sample ID: Rinse 2X
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 12:17:55
Method File: C:\elandata\Method\000-USGS.mth
Dataset File: C:\elandata\Dataset\101215b1\Rinse 2X.001
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 6
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1214512.588	ug/L	1208178.445
>	6	Li-1			256550.258	ug/L	255182.944
	9	Be	-0.013956	80.019	4.667	ug/L	7.667
	27	Al	44.480371	1.876	228757.376	ug/L	12569.738
	44	Ca	11.337499	14.156	54724.648	ug/L	52319.533
	51	V	-0.152893	260.113	-19295.144	ug/L	-17829.409
	52	Cr	0.188043	33.263	34222.784	ug/L	32800.676
	55	Mn	0.599071	2.128	11988.620	ug/L	2436.133
	54	Fe	17.220901	3.178	108172.298	ug/L	96000.857
	57	Fe	5.568962	5.050	12267.911	ug/L	10592.066
	59	Co	-0.011533	6.741	307.007	ug/L	453.683
	60	Ni	0.018966	30.067	292.743	ug/L	246.876
	65	Cu	0.068087	9.717	333.269	ug/L	153.946
	68	Zn	2.953484	1.998	3924.106	ug/L	988.151
	75	As	-0.140748	108.322	16119.275	ug/L	16695.306
	82	Se	-0.091225	541.253	1525.196	ug/L	1567.652
>	72	Ge-1			1241756.310	ug/L	1258261.581
	107	Ag	-0.005216	12.588	95.334	ug/L	144.335
	111	Cd	-0.005154	64.946	57.605	ug/L	68.766
	121	Sb	0.025689	13.192	524.688	ug/L	333.342
	135	Ba	-0.004262	222.507	188.003	ug/L	196.336
>	115	In-1			1074685.517	ug/L	1074988.953
	205	Tl	0.017268	30.715	1902.618	ug/L	1603.202
	208	Pb	-0.006969	39.659	1702.755	ug/L	1888.108
>	169	Tm-1			734195.467	ug/L	738441.427
	50	Cr	-0.247961	83.993	-844.567	ug/L	-802.997
	53	Cr	7.146483	23.704	130248.525	ug/L	123805.869
	61	Ni	1.203562	54.820	1538.521	ug/L	1505.166
	63	Cu	0.051103	16.795	210.676	ug/L	109.336
	67	Zn	5.755449	15.892	3443.942	ug/L	2977.616
	66	Zn	2.849300	2.381	1650.599	ug/L	219.011
	76	Se	13.375509	117.939	-170796.766	ug/L	-173645.116
	77	Se	5.128395	10.358	12797.335	ug/L	12103.385
	78	Se	0.297700	11.799	17094.460	ug/L	17144.157
	79	Br	-1256.934302	28.487	41077.545	ug/L	30653.290

>	72 Ge			1241756.310	ug/L	1258261.581
	108 Cd	-0.000993	1115.063	6.594	ug/L	6.742
	114 Cd	-0.011291	33.508	112.036	ug/L	170.351
	109 Ag	-0.008882	28.284	30.000	ug/L	58.667
>	115 In			1074685.517	ug/L	1074988.953
	208 207.977	-0.006091	60.434	883.395	ug/L	967.740
	207 Pb	-0.008693	21.133	364.344	ug/L	412.347
	206 Pb	-0.007302	26.608	455.016	ug/L	508.021
>	169 Tm			734195.467	ug/L	738441.427

Internal Standard Recoveries

	Analyte	Mass	Int Std	% Recovery
	Sc	45		
>	Li-1	6		100.536
	Be	9		
	Al	27		
	Ca	44		
	V	51		
	Cr	52		
	Mn	55		
	Fe	54		
	Fe	57		
	Co	59		
	Ni	60		
	Cu	65		
	Zn	68		
	As	75		
	Se	82		
>	Ge-1	72		98.688
	Ag	107		
	Cd	111		
	Sb	121		
	Ba	135		
>	In-1	115		99.972
	Tl	205		
	Pb	208		
>	Tm-1	169		
	Cr	50		
	Cr	53		
	Ni	61		
	Cu	63		
	Zn	67		
	Zn	66		
	Se	76		
	Se	77		
	Se	78		
	Br	79		
>	Ge	72		98.688
	Cd	108		
	Cd	114		
	Ag	109		
>	In	115		99.972
	207.977	208		
	Pb	207		
	Pb	206		
>	Tm	169		99.425

Sample ID: Blank
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 12:22:32
Method File: C:\elandata\Method\000-USGS.mth
Dataset File: C:\elandata\Dataset\101215b1\Blank.002
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1208178.445	ug/L	
>	6	Li-1			255182.944	ug/L	
	9	Be			7.667	ug/L	
	27	Al			12569.738	ug/L	
	44	Ca			52319.533	ug/L	
	51	V			-17829.409	ug/L	
	52	Cr			32800.676	ug/L	
	55	Mn			2436.133	ug/L	
	54	Fe			96000.857	ug/L	
	57	Fe			10592.066	ug/L	
	59	Co			453.683	ug/L	
	60	Ni			246.876	ug/L	
	65	Cu			153.946	ug/L	
	68	Zn			988.151	ug/L	
	75	As			16695.306	ug/L	
	82	Se			1567.652	ug/L	
>	72	Ge-1			1258261.581	ug/L	
	107	Ag			144.335	ug/L	
	111	Cd			68.766	ug/L	
	121	Sb			333.342	ug/L	
	135	Ba			196.336	ug/L	
>	115	In-1			1074988.953	ug/L	
	205	Tl			1603.202	ug/L	
	208	Pb			1888.108	ug/L	
>	169	Tm-1			738441.427	ug/L	
	50	Cr			-802.997	ug/L	
	53	Cr			123805.869	ug/L	
	61	Ni			1505.166	ug/L	
	63	Cu			109.336	ug/L	
	67	Zn			2977.616	ug/L	
	66	Zn			219.011	ug/L	
	76	Se			-173645.116	ug/L	
	77	Se			12103.385	ug/L	
	78	Se			17144.157	ug/L	
	79	Br			30653.290	ug/L	

>	72 Ge	1258261.581	ug/L
	108 Cd	6.742	ug/L
	114 Cd	170.351	ug/L
	109 Ag	58.667	ug/L
>	115 In	1074988.953	ug/L
	208 207.977	967.740	ug/L
	207 Pb	412.347	ug/L
	206 Pb	508.021	ug/L
>	169 Tm	738441.427	ug/L

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	
	Tl	205	
	Pb	208	
>	Tm-1	169	
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	

Sample ID: Standard 1
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 12:27:03
Method File: C:\elandata\Method\000-USGS.mth
Dataset File: C:\elandata\Dataset\101215b1\Standard 1.003
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1202922.684	ug/L	1208178.445
>	6	Li-1			261221.987	ug/L	255182.944
	9	Be	100.000000	1.573	21875.210	ug/L	7.667
	27	Al	5100.000000	0.436	24695373.843	ug/L	12569.738
	44	Ca	5100.000000	0.182	1435356.953	ug/L	52319.533
	51	V	100.000000	1.105	1082187.274	ug/L	-17829.409
	52	Cr	100.000000	1.008	1013988.563	ug/L	32800.676
	55	Mn	100.000000	0.864	1594306.212	ug/L	2436.133
	54	Fe	5100.000000	0.713	4052852.463	ug/L	96000.857
	57	Fe	5100.000000	0.429	1664047.522	ug/L	10592.066
	59	Co	100.000000	1.151	1214820.715	ug/L	453.683
	60	Ni	100.000000	0.814	258259.209	ug/L	246.876
	65	Cu	100.000000	0.456	265291.025	ug/L	153.946
	68	Zn	100.000000	1.139	100324.263	ug/L	988.151
	75	As	100.000000	1.053	268604.189	ug/L	16695.306
	82	Se	100.000000	2.919	24858.647	ug/L	1567.652
>	72	Ge-1			1235725.634	ug/L	1258261.581
	107	Ag	50.000000	1.961	450285.047	ug/L	144.335
	111	Cd	100.000000	3.308	207418.479	ug/L	68.766
	121	Sb	50.000000	2.788	357504.494	ug/L	333.342
	135	Ba	100.000000	2.222	185668.053	ug/L	196.336
>	115	In-1			1030989.581	ug/L	1074988.953
	205	Tl	50.000000	2.550	872453.366	ug/L	1603.202
	208	Pb	100.000000	1.082	2442123.852	ug/L	1888.108
>	169	Tm-1			716559.276	ug/L	738441.427
	50	Cr	100.000000	5.388	20024.985	ug/L	-802.997
	53	Cr	100.000000	3.736	233816.017	ug/L	123805.869
	61	Ni	100.000000	2.998	5858.208	ug/L	1505.166
	63	Cu	100.000000	1.065	200053.917	ug/L	109.336
	67	Zn	100.000000	1.270	11656.823	ug/L	2977.616
	66	Zn	100.000000	1.150	50316.214	ug/L	219.011
	76	Se	100.000000	16.433	-166301.955	ug/L	-173645.116
	77	Se	100.000000	2.958	28442.448	ug/L	12103.385
	78	Se	100.000000	1.590	75357.142	ug/L	17144.157
	79	Br	100.000000	102.093	29252.040	ug/L	30653.290

72	Ge			1235725.634	ug/L	1258261.581
108	Cd	100.000000	1.709	14455.345	ug/L	6.742
114	Cd	100.000000	2.452	495156.724	ug/L	170.351
109	Ag	50.000000	2.251	154783.053	ug/L	58.667
115	In			1030989.581	ug/L	1074988.953
208	207.977	100.000000	0.853	1260470.684	ug/L	967.740
207	Pb	100.000000	1.606	512494.167	ug/L	412.347
206	Pb	100.000000	1.213	669159.001	ug/L	508.021
169	Tm			716559.276	ug/L	738441.427

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Li-1	6	
Be	9	
Al	27	
Ca	44	
V	51	
Cr	52	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
Ge-1	72	
Ag	107	
Cd	111	
Sb	121	
Ba	135	
In-1	115	
Tl	205	
Pb	208	
Tm-1	169	
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
Ge	72	
Cd	108	
Cd	114	
Ag	109	
In	115	
207.977	208	
Pb	207	
Pb	206	
Tm	169	

Sample ID: ICV
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 12:31:19
Method File: C:\elandata\Method\000-USGS.mth
Dataset File: C:\elandata\Dataset\101215b1\ICV .004
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 3
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1219643.039	ug/L	1208178.445
>	6	Li-1			266740.854	ug/L	255182.944
	9	Be	79.541732	0.194	17773.130	ug/L	7.667
	27	Al	810.725039	1.071	3926926.048	ug/L	12569.738
	44	Ca	855.807945	1.026	282944.425	ug/L	52319.533
	51	V	81.929844	0.102	881351.267	ug/L	-17829.409
	52	Cr	80.138401	0.475	817067.749	ug/L	32800.676
	55	Mn	81.553808	0.159	1297570.224	ug/L	2436.133
	54	Fe	826.195543	1.128	733839.775	ug/L	96000.857
	57	Fe	819.478070	0.459	275448.524	ug/L	10592.066
	59	Co	80.516153	0.219	975925.202	ug/L	453.683
	60	Ni	79.911320	0.352	205944.003	ug/L	246.876
	65	Cu	79.579356	0.805	210639.417	ug/L	153.946
	68	Zn	80.576982	1.211	80833.693	ug/L	988.151
	75	As	79.125098	0.902	215441.000	ug/L	16695.306
	82	Se	80.426316	0.276	20248.865	ug/L	1567.652
>	72	Ge-1			1232745.641	ug/L	1258261.581
	107	Ag	39.756832	0.308	364479.816	ug/L	144.335
	111	Cd	80.257490	1.058	169488.509	ug/L	68.766
	121	Sb	38.651451	1.690	281385.420	ug/L	333.342
	135	Ba	78.571932	1.876	148515.407	ug/L	196.336
>	115	In-1			1049038.721	ug/L	1074988.953
	205	Tl	40.740452	1.100	721519.225	ug/L	1603.202
	208	Pb	80.728644	1.069	2000331.138	ug/L	1888.108
>	169	Tm-1			726903.568	ug/L	738441.427
	50	Cr	70.025817	3.965	13762.519	ug/L	-802.997
	53	Cr	77.694084	6.144	208284.200	ug/L	123805.869
	61	Ni	75.846537	1.258	4789.375	ug/L	1505.166
	63	Cu	79.556314	1.580	158795.964	ug/L	109.336
	67	Zn	79.813030	2.649	9871.067	ug/L	2977.616
	66	Zn	81.006092	1.222	40702.918	ug/L	219.011
	76	Se	66.465326	35.669	-167315.503	ug/L	-173645.116
	77	Se	78.576260	2.061	24834.216	ug/L	12103.385
	78	Se	80.226811	0.494	63636.935	ug/L	17144.157
	79	Br	-2192.771922	2.290	48811.046	ug/L	30653.290

>	72 Ge			1232745.641	ug/L	1258261.581
	108 Cd	77.662799	0.206	11428.001	ug/L	6.742
	114 Cd	79.492879	0.834	400699.250	ug/L	170.351
	109 Ag	39.769056	0.507	125335.569	ug/L	58.667
>	115 In			1049038.721	ug/L	1074988.953
	208 207.977	82.977812	1.135	1061159.203	ug/L	967.740
	207 Pb	84.296027	0.941	438342.486	ug/L	412.347
	206 Pb	73.759829	1.041	500829.449	ug/L	508.021
>	169 Tm			726903.568	ug/L	738441.427

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	104.529
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	97.972
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	97.586
	Tl	205	
	Pb	208	
>	Tm-1	169	
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	97.972
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	97.586
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	98.438

Sample ID: ICB
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 12:35:40
Method File: C:\elandata\Method\000-USGS.mth
Dataset File: C:\elandata\Dataset\101215b1\ICB.005
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1215207.520	ug/L	1208178.445
>	6	Li-1			264835.372	ug/L	255182.944
	9	Be	0.000401	3175.323	8.000	ug/L	7.667
	27	Al	0.160897	16.706	13110.826	ug/L	12569.738
	44	Ca	-2.583051	113.038	50635.366	ug/L	52319.533
	51	V	0.222907	160.281	-15036.701	ug/L	-17829.409
	52	Cr	-0.011298	224.464	32072.289	ug/L	32800.676
	55	Mn	0.002381	9.630	2428.130	ug/L	2436.133
	54	Fe	-0.678910	145.314	93667.678	ug/L	96000.857
	57	Fe	-0.494227	42.956	10232.590	ug/L	10592.066
	59	Co	0.004359	27.789	498.019	ug/L	453.683
	60	Ni	0.000590	579.835	243.766	ug/L	246.876
	65	Cu	0.013233	11.290	186.097	ug/L	153.946
	68	Zn	0.013869	127.953	983.333	ug/L	988.151
	75	As	-0.106055	57.848	16113.482	ug/L	16695.306
	82	Se	-0.051727	452.168	1526.179	ug/L	1567.652
>	72	Ge-1			1234564.258	ug/L	1258261.581
	107	Ag	0.003145	13.234	170.002	ug/L	144.335
	111	Cd	0.008244	56.451	84.658	ug/L	68.766
	121	Sb	0.091846	23.728	995.079	ug/L	333.342
	135	Ba	0.008099	62.572	207.337	ug/L	196.336
>	115	In-1			1051104.898	ug/L	1074988.953
	205	Tl	0.108116	21.848	3500.973	ug/L	1603.202
	208	Pb	0.006763	58.424	2032.126	ug/L	1888.108
>	169	Tm-1			729182.089	ug/L	738441.427
	50	Cr	-0.050782	398.174	-798.502	ug/L	-802.997
	53	Cr	0.297352	732.130	121808.396	ug/L	123805.869
	61	Ni	-0.435143	74.594	1457.801	ug/L	1505.166
	63	Cu	0.009203	28.271	125.670	ug/L	109.336
	67	Zn	3.823766	44.470	3255.333	ug/L	2977.616
	66	Zn	0.002143	2351.594	216.010	ug/L	219.011
	76	Se	-5.728241	231.732	-170617.861	ug/L	-173645.116
	77	Se	-4.635318	10.542	11108.783	ug/L	12103.385
	78	Se	-0.398453	94.903	16587.884	ug/L	17144.157
	79	Br	508.825025	1.047	25712.310	ug/L	30653.290

>	72 Ge			1234564.258	ug/L	1258261.581
	108 Cd	0.038212	81.306	12.199	ug/L	6.742
	114 Cd	0.001829	144.208	175.732	ug/L	170.351
	109 Ag	-0.001278	458.961	53.334	ug/L	58.667
>	115 In			1051104.898	ug/L	1074988.953
	208 207.977	0.008016	56.051	1058.088	ug/L	967.740
	207 Pb	0.005842	63.378	437.682	ug/L	412.347
	206 Pb	0.005110	109.786	536.356	ug/L	508.021
>	169 Tm			729182.089	ug/L	738441.427

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	103.783
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	98.117
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	97.778
	Tl	205	
	Pb	208	
>	Tm-1	169	
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	98.117
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	97.778
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	98.746

SOP No. SAC-MT-0001

SHargrave

Sample ID: LLSTD1

Sample Description: LLSTD@10X
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 12:39:58
Method File: C:\elandata\Method\000-USGS.mth
Dataset File: C:\elandata\Dataset\101215b1\LLSTD1.006
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 83
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1218958.843	ug/L	1208178.445
>	6	Li-1			256790.175	ug/L	255182.944
	9	Be	0.969393	8.557	216.337	ug/L	7.667
	27	Al	51.780776	1.226	266399.453	ug/L	12569.738
	44	Ca	45.825030	9.414	64652.515	ug/L	52319.533
	51	V	10.872976	1.365	103397.134	ug/L	-17829.409
	52	Cr	0.345685	9.770	36072.625	ug/L	32800.676
	55	Mn	1.036079	0.329	19133.388	ug/L	2436.133
	54	Fe	37.344705	5.457	124878.074	ug/L	96000.857
	57	Fe	50.011465	0.896	26966.011	ug/L	10592.066
	59	Co	0.984298	0.865	12561.386	ug/L	453.683
	60	Ni	0.992481	1.757	2840.003	ug/L	246.876
	65	Cu	1.008489	0.205	2862.117	ug/L	153.946
	68	Zn	6.139557	1.642	7163.231	ug/L	988.151
	75	As	0.988114	19.378	19135.148	ug/L	16695.306
	82	Se	0.908485	23.063	1774.369	ug/L	1567.652
>	72	Ge-1			1251871.443	ug/L	1258261.581
	107	Ag	0.485542	2.880	4625.014	ug/L	144.335
	111	Cd	0.988281	1.584	2170.127	ug/L	68.766
	121	Sb	0.474576	1.048	3805.804	ug/L	333.342
	135	Ba	0.902042	3.825	1909.287	ug/L	196.336
>	115	In-1			1057137.604	ug/L	1074988.953
	205	Tl	0.506582	1.154	10617.518	ug/L	1603.202
	208	Pb	1.069068	1.207	28557.290	ug/L	1888.108
>	169	Tm-1			732878.143	ug/L	738441.427
	50	Cr	1.934000	10.162	-390.870	ug/L	-802.997
	53	Cr	-28.686997	11.452	90572.409	ug/L	123805.869
	61	Ni	-0.309480	131.320	1483.818	ug/L	1505.166
	63	Cu	1.000404	1.174	2135.336	ug/L	109.336
	67	Zn	-0.643015	383.781	2905.864	ug/L	2977.616
	66	Zn	6.207283	1.620	3368.829	ug/L	219.011
	76	Se	-27.588056	81.110	-173949.194	ug/L	-173645.116
	77	Se	-24.792072	1.725	7884.751	ug/L	12103.385
	78	Se	0.808717	9.723	17536.508	ug/L	17144.157
	79	Br	-374.804989	6.932	33756.557	ug/L	30653.290

>	72 Ge			1251871.443	ug/L	1258261.581
	108 Cd	0.958664	9.664	148.632	ug/L	6.742
	114 Cd	0.958158	1.723	5032.601	ug/L	170.351
	109 Ag	0.495082	1.681	1629.251	ug/L	58.667
>	115 In			1057137.604	ug/L	1074988.953
	208 207.977	1.111553	1.493	15279.991	ug/L	967.740
	207 Pb	1.090737	3.012	6122.278	ug/L	412.347
	206 Pb	0.972446	1.051	7155.020	ug/L	508.021
>	169 Tm			732878.143	ug/L	738441.427

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	100.630
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	99.492
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	98.339
	Tl	205	
	Pb	208	
>	Tm-1	169	
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	99.492
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	98.339
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	99.247

Sample ID: LLSTD2
Sample Description: LLSTD@5X
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 12:44:14
Method File: C:\elandata\Method\000-USGS.mth
Dataset File: C:\elandata\Dataset\101215b1\LLSTD2.007
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 84
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1214175.908	ug/L	1208178.445
>	6	Li-1			252505.043	ug/L	255182.944
	9	Be	1.973535	2.405	424.681	ug/L	7.667
	27	Al	102.756360	0.933	516218.472	ug/L	12569.738
	44	Ca	99.855283	1.794	79490.082	ug/L	52319.533
	51	V	21.049988	1.745	216717.821	ug/L	-17829.409
	52	Cr	1.441163	4.163	46960.669	ug/L	32800.676
	55	Mn	2.067054	0.855	35752.486	ug/L	2436.133
	54	Fe	87.033034	2.887	163916.172	ug/L	96000.857
	57	Fe	102.695755	1.124	44266.049	ug/L	10592.066
	59	Co	1.985561	0.432	24875.862	ug/L	453.683
	60	Ni	1.990786	2.503	5447.925	ug/L	246.876
	65	Cu	2.022139	2.368	5583.395	ug/L	153.946
	68	Zn	11.050052	1.276	12103.312	ug/L	988.151
	75	As	1.800680	12.476	21204.604	ug/L	16695.306
	82	Se	1.748621	5.423	1972.532	ug/L	1567.652
>	72	Ge-1			1251645.383	ug/L	1258261.581
	107	Ag	0.976840	2.084	9150.575	ug/L	144.335
	111	Cd	1.955673	3.066	4222.097	ug/L	68.766
	121	Sb	0.943325	0.154	7232.775	ug/L	333.342
	135	Ba	2.071513	8.510	4127.343	ug/L	196.336
>	115	In-1			1055906.736	ug/L	1074988.953
	205	Tl	0.981723	2.129	18827.813	ug/L	1603.202
	208	Pb	2.150228	1.891	54801.552	ug/L	1888.108
>	169	Tm-1			723163.854	ug/L	738441.427
	50	Cr	2.142187	6.070	-347.123	ug/L	-802.997
	53	Cr	-21.176665	7.418	99090.413	ug/L	123805.869
	61	Ni	1.473983	75.632	1562.871	ug/L	1505.166
	63	Cu	2.030791	1.672	4221.584	ug/L	109.336
	67	Zn	4.717486	15.063	3379.178	ug/L	2977.616
	66	Zn	11.485174	2.276	6046.032	ug/L	219.011
	76	Se	-47.350651	81.145	-174773.006	ug/L	-173645.116
	77	Se	-16.453773	2.058	9281.403	ug/L	12103.385
	78	Se	1.863952	20.950	18157.962	ug/L	17144.157
	79	Br	-2017.731038	3.404	48032.226	ug/L	30653.290

⌊>	72 Ge			1251645.383	ug/L	1258261.581
⌈	108 Cd	1.972062	6.039	298.416	ug/L	6.742
|	114 Cd	1.921675	2.448	9911.676	ug/L	170.351
|	109 Ag	0.973741	3.118	3144.842	ug/L	58.667
⌊>	115 In			1055906.736	ug/L	1074988.953
⌈	208 207.977	2.208586	2.238	29019.356	ug/L	967.740
|	207 Pb	2.255934	0.999	12063.423	ug/L	412.347
|	206 Pb	1.959343	2.016	13718.772	ug/L	508.021
⌊>	169 Tm			723163.854	ug/L	738441.427

Internal Standard Recoveries

	Analyte	Mass	Int Std	% Recovery
	Sc	45		
⌈>	Li-1	6		98.951
⌊	Be	9		
⌈	Al	27		
|	Ca	44		
|	V	51		
|	Cr	52		
|	Mn	55		
|	Fe	54		
|	Fe	57		
|	Co	59		
|	Ni	60		
|	Cu	65		
|	Zn	68		
|	As	75		
|	Se	82		
⌊>	Ge-1	72		99.474
⌈	Ag	107		
|	Cd	111		
|	Sb	121		
|	Ba	135		
⌊>	In-1	115		98.225
⌈	Tl	205		
|	Pb	208		
⌊>	Tm-1	169		
⌈	Cr	50		
|	Cr	53		
|	Ni	61		
|	Cu	63		
|	Zn	67		
|	Zn	66		
|	Se	76		
|	Se	77		
|	Se	78		
|	Br	79		
⌊>	Ge	72		99.474
⌈	Cd	108		
|	Cd	114		
|	Ag	109		
⌊>	In	115		98.225
⌈	207.977	208		
|	Pb	207		
|	Pb	206		
⌊>	Tm	169		97.931

Sample ID: ICSA
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 12:48:31
Method File: C:\elandata\Method\000-USGS.mth
Dataset File: C:\elandata\Dataset\101215b1\ICSA .008
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 2
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1091205.681	ug/L	1208178.445
>	6	Li-1			236695.545	ug/L	255182.944
	9	Be	0.020044	62.151	11.000	ug/L	7.667
	27	Al	95610.268361	4.645	422836627.736	ug/L	12569.738
	44	Ca	97012.733913	3.506	24101273.542	ug/L	52319.533
	51	V	-0.211523	77.925	-18122.384	ug/L	-17829.409
	52	Cr	1.173913	4.776	39964.447	ug/L	32800.676
	55	Mn	7.161162	0.424	106349.977	ug/L	2436.133
	54	Fe	99583.699449	1.096	70713607.383	ug/L	96000.857
	57	Fe	99217.088409	0.783	29403745.552	ug/L	10592.066
	59	Co	1.734882	1.751	19657.988	ug/L	453.683
	60	Ni	2.489922	11.238	6091.274	ug/L	246.876
	65	Cu	-0.248811	19.608	-464.740	ug/L	153.946
	68	Zn	5.124233	0.589	5538.880	ug/L	988.151
	75	As	0.755959	29.888	16723.998	ug/L	16695.306
	82	Se	0.142294	672.882	1437.256	ug/L	1567.652
>	72	Ge-1			1129078.249	ug/L	1258261.581
	107	Ag	0.172718	5.155	1541.187	ug/L	144.335
	111	Cd	0.939753	17.409	1833.036	ug/L	68.766
	121	Sb	0.187985	1.999	1513.847	ug/L	333.342
	135	Ba	2.755174	2.054	4823.828	ug/L	196.336
>	115	In-1			938225.387	ug/L	1074988.953
	205	Tl	0.176703	3.067	3974.241	ug/L	1603.202
	208	Pb	0.493334	1.073	11897.026	ug/L	1888.108
>	169	Tm-1			614566.007	ug/L	738441.427
	50	Cr	322.996839	4.641	60733.904	ug/L	-802.997
	53	Cr	3.600593	10.622	114785.653	ug/L	123805.869
	61	Ni	27.125223	15.028	2436.643	ug/L	1505.166
	63	Cu	3.577445	0.174	6634.336	ug/L	109.336
	67	Zn	20.786506	2.323	4330.455	ug/L	2977.616
	66	Zn	9.569573	1.286	4577.606	ug/L	219.011
	76	Se	-145.356622	20.825	-161445.452	ug/L	-173645.116
	77	Se	15.147916	7.730	13151.507	ug/L	12103.385
	78	Se	3.145355	9.426	17065.841	ug/L	17144.157
	79	Br	-617615.738842	1.292	4871434.948	ug/L	30653.290

L>	72 Ge			1129078.249	ug/L	1258261.581
⌈	108 Cd	59.458611	4.241	7827.193	ug/L	6.742
|	114 Cd	3.807537	1.342	17306.402	ug/L	170.351
|	109 Ag	0.130092	12.295	417.705	ug/L	58.667
L>	115 In			938225.387	ug/L	1074988.953
⌈	208 207.977	0.509137	1.544	6305.456	ug/L	967.740
|	207 Pb	0.505037	1.261	2561.515	ug/L	412.347
|	206 Pb	0.454604	0.333	3030.055	ug/L	508.021
L>	169 Tm			614566.007	ug/L	738441.427

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈>	Li-1	6	92.755
L	Be	9	
⌈	Al	27	
|	Ca	44	
|	V	51	
|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Co	59	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
|	Se	82	
L>	Ge-1	72	89.733
⌈	Ag	107	
|	Cd	111	
|	Sb	121	
|	Ba	135	
L>	In-1	115	87.278
⌈	Tl	205	
|	Pb	208	
L>	Tm-1	169	
⌈	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
L>	Ge	72	89.733
⌈	Cd	108	
|	Cd	114	
|	Ag	109	
L>	In	115	87.278
⌈	207.977	208	
|	Pb	207	
|	Pb	206	
L>	Tm	169	83.225

Sample ID: ICSAB
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 12:52:49
Method File: C:\elandata\Method\000-USGS.mth
Dataset File: C:\elandata\Dataset\101215b1\ICSAB.009
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 1
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1112637.883	ug/L	1208178.445
>	6	Li-1			236909.008	ug/L	255182.944
	9	Be	98.221894	0.634	19491.511	ug/L	7.667
	27	Al	93762.903855	2.526	419588525.030	ug/L	12569.738
	44	Ca	95960.871901	2.103	24124058.036	ug/L	52319.533
	51	V	98.121994	0.822	981535.296	ug/L	-17829.409
	52	Cr	101.603914	0.640	952156.325	ug/L	32800.676
	55	Mn	105.827308	0.470	1559969.858	ug/L	2436.133
	54	Fe	98260.748834	0.351	70610223.592	ug/L	96000.857
	57	Fe	97926.188591	0.594	29368772.627	ug/L	10592.066
	59	Co	101.260328	0.254	1137507.746	ug/L	453.683
	60	Ni	99.716504	0.447	238139.797	ug/L	246.876
	65	Cu	92.167974	0.306	226107.164	ug/L	153.946
	68	Zn	97.687137	0.134	90647.529	ug/L	988.151
	75	As	102.937561	0.364	255230.232	ug/L	16695.306
	82	Se	110.226021	1.115	25194.273	ug/L	1567.652
>	72	Ge-1			1142606.092	ug/L	1258261.581
	107	Ag	48.191628	0.661	402885.651	ug/L	144.335
	111	Cd	100.224226	0.841	193029.807	ug/L	68.766
	121	Sb	50.811609	0.440	337307.833	ug/L	333.342
	135	Ba	102.699499	0.803	177012.226	ug/L	196.336
>	115	In-1			956708.420	ug/L	1074988.953
	205	Tl	49.324041	1.839	744296.161	ug/L	1603.202
	208	Pb	98.483595	0.233	2079680.400	ug/L	1888.108
>	169	Tm-1			619559.268	ug/L	738441.427
	50	Cr	263.650888	1.837	50034.885	ug/L	-802.997
	53	Cr	115.805957	3.270	232555.503	ug/L	123805.869
	61	Ni	120.365060	2.760	6242.564	ug/L	1505.166
	63	Cu	96.647134	0.469	178796.781	ug/L	109.336
	67	Zn	115.467341	3.428	12026.413	ug/L	2977.616
	66	Zn	105.289975	0.999	48980.216	ug/L	219.011
	76	Se	-33.376053	20.415	-158992.027	ug/L	-173645.116
	77	Se	132.822682	1.388	31318.857	ug/L	12103.385
	78	Se	110.237746	0.626	75224.862	ug/L	17144.157
	79	Br	-25534.057647	3.684	230483.085	ug/L	30653.290

L>	72 Ge			1142606.092	ug/L	1258261.581
⌈	108 Cd	159.430485	0.665	21389.242	ug/L	6.742
|	114 Cd	101.412142	0.688	466189.561	ug/L	170.351
|	109 Ag	48.379310	0.608	139037.523	ug/L	58.667
L>	115 In			956708.420	ug/L	1074988.953
⌈	208 207.977	98.730848	0.407	1076074.600	ug/L	967.740
|	207 Pb	97.956653	0.215	434121.998	ug/L	412.347
|	206 Pb	98.421442	0.236	569483.803	ug/L	508.021
L>	169 Tm			619559.268	ug/L	738441.427

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈>	Li-1	6	92.839
L	Be	9	
⌈	Al	27	
|	Ca	44	
|	V	51	
|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Co	59	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
|	Se	82	
L>	Ge-1	72	90.808
⌈	Ag	107	
|	Cd	111	
|	Sb	121	
|	Ba	135	
L>	In-1	115	88.997
⌈	Tl	205	
|	Pb	208	
L>	Tm-1	169	
⌈	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
L>	Ge	72	90.808
⌈	Cd	108	
|	Cd	114	
|	Ag	109	
L>	In	115	88.997
⌈	207.977	208	
|	Pb	207	
|	Pb	206	
L>	Tm	169	83.901

Sample ID: Rinse
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 14:07:54
Method File: c:\elandata\Method\000-usgs.mth
Dataset File: C:\elandata\Dataset\101215b1\Rinse.010
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 6
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1397214.459	ug/L	1208178.445
>	6	Li-1			327885.289	ug/L	255182.944
	9	Be	-0.017827	37.006	5.000	ug/L	7.667
	27	Al	53.452020	2.212	292448.639	ug/L	12569.738
	44	Ca	-7.958672	46.785	53108.370	ug/L	52319.533
	51	V	0.362202	35.179	-14586.918	ug/L	-17829.409
	52	Cr	0.464563	23.550	39676.004	ug/L	32800.676
	55	Mn	0.599494	2.266	12878.686	ug/L	2436.133
	54	Fe	15.657534	17.491	114837.437	ug/L	96000.857
	57	Fe	18.057605	4.755	17541.668	ug/L	10592.066
	59	Co	-0.014161	9.369	295.340	ug/L	453.683
	60	Ni	0.004110	93.480	273.152	ug/L	246.876
	65	Cu	0.054172	23.078	318.287	ug/L	153.946
	68	Zn	2.957016	2.507	4217.875	ug/L	988.151
	75	As	-0.264860	42.433	16970.176	ug/L	16695.306
	82	Se	-0.252575	44.130	1597.993	ug/L	1567.652
>	72	Ge-1			1333473.930	ug/L	1258261.581
	107	Ag	-0.006493	10.999	84.667	ug/L	144.335
	111	Cd	-0.006350	70.370	55.963	ug/L	68.766
	121	Sb	0.021796	8.892	503.687	ug/L	333.342
	135	Ba	-0.008063	72.341	183.669	ug/L	196.336
>	115	In-1			1092114.430	ug/L	1074988.953
	205	Tl	-0.039292	5.248	899.730	ug/L	1603.202
	208	Pb	-0.002562	78.709	1827.435	ug/L	1888.108
>	169	Tm-1			740042.310	ug/L	738441.427
	50	Cr	-1.297661	25.709	-1142.147	ug/L	-802.997
	53	Cr	30.820036	18.794	168478.362	ug/L	123805.869
	61	Ni	3.493306	49.939	1759.682	ug/L	1505.166
	63	Cu	0.054614	4.870	233.679	ug/L	109.336
	67	Zn	13.006537	24.967	4379.560	ug/L	2977.616
	66	Zn	2.752448	4.941	1719.984	ug/L	219.011
	76	Se	-84.998874	29.518	-187915.233	ug/L	-173645.116
	77	Se	10.959878	16.104	14782.678	ug/L	12103.385
	78	Se	-1.376636	23.094	17298.788	ug/L	17144.157
	79	Br	-100.387576	65.074	33415.989	ug/L	30653.290

>	72 Ge			1333473.930	ug/L	1258261.581
	108 Cd	0.011981	344.940	8.655	ug/L	6.742
	114 Cd	-0.013930	6.022	99.989	ug/L	170.351
	109 Ag	-0.008002	20.536	33.334	ug/L	58.667
>	115 In			1092114.430	ug/L	1074988.953
	208 207.977	-0.001682	106.691	948.071	ug/L	967.740
	207 Pb	-0.002243	98.784	401.346	ug/L	412.347
	206 Pb	-0.004465	136.642	478.018	ug/L	508.021
>	169 Tm			740042.310	ug/L	738441.427

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	128.490
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	105.977
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	101.593
	Tl	205	
	Pb	208	
>	Tm-1	169	
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	105.977
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	101.593
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	100.217

Sample ID: CCV 1
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 14:12:39
Method File: c:\elandata\Method\000-usgs.mth
Dataset File: C:\elandata\Dataset\101215b1\CCV 1.011
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1371503.990	ug/L	1208178.445
>	6	Li-1			321544.472	ug/L	255182.944
	9	Be	108.274612	2.367	29145.272	ug/L	7.667
	27	Al	6095.959138	1.882	30783526.152	ug/L	12569.738
	44	Ca	5853.993655	2.554	1710143.236	ug/L	52319.533
	51	V	105.804334	2.412	1195104.636	ug/L	-17829.409
	52	Cr	104.764651	1.964	1106353.835	ug/L	32800.676
	55	Mn	102.173028	1.826	1698883.305	ug/L	2436.133
	54	Fe	5254.029856	1.764	4351758.823	ug/L	96000.857
	57	Fe	5155.971385	2.454	1754238.493	ug/L	10592.066
	59	Co	100.072581	2.107	1267930.042	ug/L	453.683
	60	Ni	100.293490	1.594	270166.117	ug/L	246.876
	65	Cu	100.119771	2.545	277003.675	ug/L	153.946
	68	Zn	102.646219	1.722	107390.892	ug/L	988.151
	75	As	99.999540	2.091	280148.333	ug/L	16695.306
	82	Se	99.151104	1.376	25727.193	ug/L	1567.652
>	72	Ge-1			1289213.124	ug/L	1258261.581
	107	Ag	50.486609	1.075	456062.744	ug/L	144.335
	111	Cd	102.460067	1.757	213202.697	ug/L	68.766
	121	Sb	51.276178	2.015	367748.356	ug/L	333.342
	135	Ba	100.393887	1.932	186951.755	ug/L	196.336
>	115	In-1			1033921.262	ug/L	1074988.953
	205	Tl	51.159396	3.008	886298.269	ug/L	1603.202
	208	Pb	102.964555	1.942	2496765.766	ug/L	1888.108
>	169	Tm-1			711699.786	ug/L	738441.427
	50	Cr	106.738341	0.245	22365.442	ug/L	-802.997
	53	Cr	114.341441	2.110	260742.872	ug/L	123805.869
	61	Ni	98.793944	2.271	6056.394	ug/L	1505.166
	63	Cu	100.777925	2.127	210298.400	ug/L	109.336
	67	Zn	104.812303	2.725	12597.836	ug/L	2977.616
	66	Zn	102.184613	2.579	53619.216	ug/L	219.011
	76	Se	71.058746	32.485	-174777.751	ug/L	-173645.116
	77	Se	101.812548	0.519	29983.726	ug/L	12103.385
	78	Se	99.563648	1.589	78342.540	ug/L	17144.157
	79	Br	-713.084912	43.289	37844.481	ug/L	30653.290

L>	72 Ge			1289213.124	ug/L	1258261.581
⌈	108 Cd	101.905396	2.267	14772.772	ug/L	6.742
|	114 Cd	100.739302	1.694	500342.381	ug/L	170.351
|	109 Ag	50.531960	1.806	156896.359	ug/L	58.667
L>	115 In			1033921.262	ug/L	1074988.953
⌈	208 207.977	103.341834	1.848	1293389.985	ug/L	967.740
|	207 Pb	102.621701	2.129	522233.153	ug/L	412.347
|	206 Pb	102.516493	2.027	681142.628	ug/L	508.021
L>	169 Tm			711699.786	ug/L	738441.427

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈>	Li-1	6	126.005
L	Be	9	
⌈	Al	27	
|	Ca	44	
|	V	51	
|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Co	59	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
|	Se	82	
L>	Ge-1	72	102.460
⌈	Ag	107	
|	Cd	111	
|	Sb	121	
|	Ba	135	
L>	In-1	115	96.180
⌈	Tl	205	
|	Pb	208	
L>	Tm-1	169	
⌈	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
L>	Ge	72	102.460
⌈	Cd	108	
|	Cd	114	
|	Ag	109	
L>	In	115	96.180
⌈	207.977	208	
|	Pb	207	
|	Pb	206	
L>	Tm	169	96.379

Sample ID: CCB 1
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 14:17:00
Method File: c:\elandata\Method\000-usgs.mth
Dataset File: C:\elandata\Dataset\101215b1\CCB 1.012
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1384549.233	ug/L	1208178.445
>	6	Li-1			317652.872	ug/L	255182.944
	9	Be	0.004486	285.000	10.667	ug/L	7.667
	27	Al	0.942459	4.443	17564.542	ug/L	12569.738
	44	Ca	-27.153219	6.946	45728.053	ug/L	52319.533
	51	V	0.631255	10.555	-10978.900	ug/L	-17829.409
	52	Cr	0.117748	27.975	34669.526	ug/L	32800.676
	55	Mn	-0.009150	36.777	2334.428	ug/L	2436.133
	54	Fe	2.461236	27.667	99938.318	ug/L	96000.857
	57	Fe	2.408883	35.051	11618.735	ug/L	10592.066
	59	Co	-0.009847	11.843	338.676	ug/L	453.683
	60	Ni	0.011778	71.684	283.503	ug/L	246.876
	65	Cu	-0.002421	219.891	150.394	ug/L	153.946
	68	Zn	-0.018547	175.777	989.069	ug/L	988.151
	75	As	-0.052197	401.487	16897.890	ug/L	16695.306
	82	Se	-0.366700	69.915	1510.739	ug/L	1567.652
>	72	Ge-1			1283862.583	ug/L	1258261.581
	107	Ag	-0.002389	37.824	121.001	ug/L	144.335
	111	Cd	-0.008527	30.676	49.951	ug/L	68.766
	121	Sb	-0.015216	16.901	218.337	ug/L	333.342
	135	Ba	-0.013784	74.579	168.336	ug/L	196.336
>	115	In-1			1066853.750	ug/L	1074988.953
	205	Tl	0.221013	28.719	5492.100	ug/L	1603.202
	208	Pb	-0.002087	167.882	1810.102	ug/L	1888.108
>	169	Tm-1			728122.165	ug/L	738441.427
	50	Cr	-0.498420	16.619	-927.162	ug/L	-802.997
	53	Cr	7.238501	35.093	134759.291	ug/L	123805.869
	61	Ni	2.706637	33.771	1658.939	ug/L	1505.166
	63	Cu	-0.007169	42.699	96.669	ug/L	109.336
	67	Zn	5.959051	56.585	3578.495	ug/L	2977.616
	66	Zn	-0.096911	23.845	173.007	ug/L	219.011
	76	Se	-77.943446	24.029	-180610.338	ug/L	-173645.116
	77	Se	-7.360278	16.730	11084.088	ug/L	12103.385
	78	Se	-0.910093	40.927	16939.801	ug/L	17144.157
	79	Br	404.898163	0.992	27666.034	ug/L	30653.290

L>	72 Ge			1283862.583	ug/L	1258261.581
⌈	108 Cd	0.006432	373.190	7.655	ug/L	6.742
|	114 Cd	-0.008652	30.084	124.770	ug/L	170.351
|	109 Ag	-0.005056	48.036	42.000	ug/L	58.667
L>	115 In			1066853.750	ug/L	1074988.953
⌈	208 207.977	0.001028	225.184	967.407	ug/L	967.740
|	207 Pb	-0.005056	159.650	380.345	ug/L	412.347
|	206 Pb	-0.005682	45.387	462.350	ug/L	508.021
L>	169 Tm			728122.165	ug/L	738441.427

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈>	Li-1	6	124.480
L	Be	9	
⌈	Al	27	
|	Ca	44	
|	V	51	
|	Cr	52	
|	Mn	55	
|	Fe	54	
|	Fe	57	
|	Co	59	
|	Ni	60	
|	Cu	65	
|	Zn	68	
|	As	75	
|	Se	82	
L>	Ge-1	72	102.035
⌈	Ag	107	
|	Cd	111	
|	Sb	121	
|	Ba	135	
L>	In-1	115	99.243
⌈	Tl	205	
|	Pb	208	
L>	Tm-1	169	
⌈	Cr	50	
|	Cr	53	
|	Ni	61	
|	Cu	63	
|	Zn	67	
|	Zn	66	
|	Se	76	
|	Se	77	
|	Se	78	
|	Br	79	
L>	Ge	72	102.035
⌈	Cd	108	
|	Cd	114	
|	Ag	109	
L>	In	115	99.243
⌈	207.977	208	
|	Pb	207	
|	Pb	206	
L>	Tm	169	98.603

Sample ID: BLK RECAL
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 14:17:00
Method File: C:\elandata\Method\000-USGS.mth
Dataset File: C:\elandata\Dataset\101215b1\CCB 1.012
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1384549.233	ug/L	
>	6	Li-1			317652.872	ug/L	
	9	Be			10.667	ug/L	
	27	Al			17564.542	ug/L	
	44	Ca			45728.053	ug/L	
	51	V			-10978.900	ug/L	
	52	Cr			34669.526	ug/L	
	55	Mn			2334.428	ug/L	
	54	Fe			99938.318	ug/L	
	57	Fe			11618.735	ug/L	
	59	Co			338.676	ug/L	
	60	Ni			283.503	ug/L	
	65	Cu			150.394	ug/L	
	68	Zn			989.069	ug/L	
	75	As			16897.890	ug/L	
	82	Se			1510.739	ug/L	
>	72	Ge-1			1283862.583	ug/L	
	107	Ag			121.001	ug/L	
	111	Cd			49.951	ug/L	
	121	Sb			218.337	ug/L	
	135	Ba			168.336	ug/L	
>	115	In-1			1066853.750	ug/L	
	205	Tl			5492.100	ug/L	
	208	Pb			1810.102	ug/L	
>	169	Tm-1			728122.165	ug/L	
	50	Cr			-927.162	ug/L	
	53	Cr			134759.291	ug/L	
	61	Ni			1658.939	ug/L	
	63	Cu			96.669	ug/L	
	67	Zn			3578.495	ug/L	
	66	Zn			173.007	ug/L	
	76	Se			-180610.338	ug/L	
	77	Se			11084.088	ug/L	
	78	Se			16939.801	ug/L	
	79	Br			27666.034	ug/L	

>	72 Ge	1283862.583	ug/L
	108 Cd	7.655	ug/L
	114 Cd	124.770	ug/L
	109 Ag	42.000	ug/L
>	115 In	1066853.750	ug/L
	208 207.977	967.407	ug/L
	207 Pb	380.345	ug/L
	206 Pb	462.350	ug/L
>	169 Tm	728122.165	ug/L

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	
	Tl	205	
	Pb	208	
>	Tm-1	169	
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	

Sample ID: STD1 RECAL
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 14:12:39
Method File: C:\elandata\Method\000-USGS.mth
Dataset File: C:\elandata\Dataset\101215b1\CCV 1.011
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1371503.990	ug/L	1384549.233
>	6	Li-1			321544.472	ug/L	317652.872
	9	Be	100.000000	2.367	29145.272	ug/L	10.667
	27	Al	5100.000000	1.882	30783526.152	ug/L	17564.542
	44	Ca	5100.000000	2.542	1710143.236	ug/L	45728.053
	51	V	100.000000	2.427	1195104.636	ug/L	-10978.900
	52	Cr	100.000000	1.966	1106353.835	ug/L	34669.526
	55	Mn	100.000000	1.826	1698883.305	ug/L	2334.428
	54	Fe	5100.000000	1.765	4351758.823	ug/L	99938.318
	57	Fe	5100.000000	2.455	1754238.493	ug/L	11618.735
	59	Co	100.000000	2.107	1267930.042	ug/L	338.676
	60	Ni	100.000000	1.595	270166.117	ug/L	283.503
	65	Cu	100.000000	2.545	277003.675	ug/L	150.394
	68	Zn	100.000000	1.722	107390.892	ug/L	989.069
	75	As	100.000000	2.090	280148.333	ug/L	16897.890
	82	Se	100.000000	1.371	25727.193	ug/L	1510.739
>	72	Ge-1			1289213.124	ug/L	1283862.583
	107	Ag	50.000000	1.074	456062.744	ug/L	121.001
	111	Cd	100.000000	1.756	213202.697	ug/L	49.951
	121	Sb	50.000000	2.014	367748.356	ug/L	218.337
	135	Ba	100.000000	1.932	186951.755	ug/L	168.336
>	115	In-1			1033921.262	ug/L	1066853.750
	205	Tl	50.000000	3.021	886298.269	ug/L	5492.100
	208	Pb	100.000000	1.942	2496765.766	ug/L	1810.102
>	169	Tm-1			711699.786	ug/L	728122.165
	50	Cr	100.000000	0.244	22365.442	ug/L	-927.162
	53	Cr	100.000000	2.253	260742.872	ug/L	134759.291
	61	Ni	100.000000	2.335	6056.394	ug/L	1658.939
	63	Cu	100.000000	2.127	210298.400	ug/L	96.669
	67	Zn	100.000000	2.890	12597.836	ug/L	3578.495
	66	Zn	100.000000	2.577	53619.216	ug/L	173.007
	76	Se	100.000000	15.490	-174777.751	ug/L	-180610.338
	77	Se	100.000000	0.484	29983.726	ug/L	11084.088
	78	Se	100.000000	1.575	78342.540	ug/L	16939.801
	79	Br	100.000000	27.611	37844.481	ug/L	27666.034

>	72 Ge			1289213.124	ug/L	1283862.583
	108 Cd	100.000000	2.267	14772.772	ug/L	7.655
	114 Cd	100.000000	1.694	500342.381	ug/L	124.770
	109 Ag	50.000000	1.806	156896.359	ug/L	42.000
>	115 In			1033921.262	ug/L	1066853.750
	208 207.977	100.000000	1.848	1293389.985	ug/L	967.407
	207 Pb	100.000000	2.129	522233.153	ug/L	380.345
	206 Pb	100.000000	2.027	681142.628	ug/L	462.350
>	169 Tm			711699.786	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	
	Tl	205	
	Pb	208	
>	Tm-1	169	
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	

Sample ID: CCV 2
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 14:23:21
Method File: C:\elandata\Method\000-USGS.mth
Dataset File: C:\elandata\Dataset\101215b1\CCV 2.013
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1362171.645	ug/L	1384549.233
>	6	Li-1			318394.241	ug/L	317652.872
	9	Be	100.777599	2.089	29085.998	ug/L	10.667
	27	Al	5154.382563	1.112	30491168.105	ug/L	17564.542
	44	Ca	5141.566618	1.209	1689475.154	ug/L	45728.053
	51	V	101.476813	1.363	1188823.690	ug/L	-10978.900
	52	Cr	102.063545	0.881	1105953.908	ug/L	34669.526
	55	Mn	101.762000	0.092	1694303.937	ug/L	2334.428
	54	Fe	5208.983472	0.225	4353939.464	ug/L	99938.318
	57	Fe	5157.269628	0.888	1738675.779	ug/L	11618.735
	59	Co	100.666850	0.273	1250986.830	ug/L	338.676
	60	Ni	100.922503	0.508	267201.476	ug/L	283.503
	65	Cu	101.601957	0.650	275837.741	ug/L	150.394
	68	Zn	100.860999	0.324	106139.628	ug/L	989.069
	75	As	100.664321	0.501	276281.442	ug/L	16897.890
	82	Se	99.305937	0.514	25046.871	ug/L	1510.739
>	72	Ge-1			1263073.912	ug/L	1283862.583
	107	Ag	49.748308	1.103	449148.387	ug/L	121.001
	111	Cd	99.933897	0.342	210929.423	ug/L	49.951
	121	Sb	50.224245	0.957	365701.123	ug/L	218.337
	135	Ba	100.958922	1.368	186852.699	ug/L	168.336
>	115	In-1			1023310.120	ug/L	1066853.750
	205	Tl	50.279505	0.242	889133.189	ug/L	5492.100
	208	Pb	99.950416	0.483	2489206.316	ug/L	1810.102
>	169	Tm-1			709676.585	ug/L	728122.165
	50	Cr	104.465672	0.935	22931.606	ug/L	-927.162
	53	Cr	97.548984	4.027	252406.680	ug/L	134759.291
	61	Ni	98.546241	3.514	5871.911	ug/L	1658.939
	63	Cu	100.042952	0.684	206175.663	ug/L	96.669
	67	Zn	99.950376	2.112	12340.084	ug/L	3578.495
	66	Zn	101.249423	0.867	53206.265	ug/L	173.007
	76	Se	83.017831	14.539	-172330.463	ug/L	-180610.338
	77	Se	97.687234	1.935	28948.357	ug/L	11084.088
	78	Se	100.396906	1.727	77008.158	ug/L	16939.801
	79	Br	48.758817	9.443	31999.221	ug/L	27666.034

>	72 Ge			1263073.912	ug/L	1283862.583
	108 Cd	100.122699	0.505	14643.440	ug/L	7.655
	114 Cd	100.194599	0.905	496279.532	ug/L	124.770
	109 Ag	50.420008	0.915	156628.445	ug/L	42.000
>	115 In			1023310.120	ug/L	1066853.750
	208 207.977	99.894413	0.494	1288729.296	ug/L	967.407
	207 Pb	100.032275	0.507	521087.560	ug/L	380.345
	206 Pb	99.993988	0.677	679389.460	ug/L	462.350
>	169 Tm			709676.585	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	100.233
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	98.381
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	95.919
	Tl	205	
	Pb	208	
>	Tm-1	169	
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	98.381
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	95.919
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	97.467

Sample ID: CCB 2
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 14:27:43
Method File: C:\elandata\Method\000-USGS.mth
Dataset File: C:\elandata\Dataset\101215b1\CCB 2.014
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1358466.778	ug/L	1384549.233
>	6	Li-1			311521.259	ug/L	317652.872
	9	Be	0.000498	4015.733	10.667	ug/L	10.667
	27	Al	0.189557	136.519	18588.898	ug/L	17564.542
	44	Ca	-0.386772	85.995	45325.847	ug/L	45728.053
	51	V	0.345218	97.513	-6788.022	ug/L	-10978.900
	52	Cr	-0.294183	13.270	31338.318	ug/L	34669.526
	55	Mn	0.004298	48.952	2392.450	ug/L	2334.428
	54	Fe	-2.720790	35.986	97086.189	ug/L	99938.318
	57	Fe	-0.971359	23.885	11219.710	ug/L	11618.735
	59	Co	0.007021	78.976	424.681	ug/L	338.676
	60	Ni	0.005952	171.049	297.664	ug/L	283.503
	65	Cu	0.013957	90.956	187.725	ug/L	150.394
	68	Zn	0.040667	95.692	1025.889	ug/L	989.069
	75	As	-0.337072	14.798	15917.105	ug/L	16897.890
	82	Se	0.235606	60.006	1558.082	ug/L	1510.739
>	72	Ge-1			1276081.797	ug/L	1283862.583
	107	Ag	0.002734	140.682	142.668	ug/L	121.001
	111	Cd	0.011070	39.481	72.337	ug/L	49.951
	121	Sb	0.018539	27.573	349.676	ug/L	218.337
	135	Ba	0.002612	201.644	168.669	ug/L	168.336
>	115	In-1			1038353.318	ug/L	1066853.750
	205	Tl	0.208378	73.581	9148.955	ug/L	5492.100
	208	Pb	0.018411	10.540	2256.491	ug/L	1810.102
>	169	Tm-1			720488.014	ug/L	728122.165
	50	Cr	0.583752	31.096	-786.917	ug/L	-927.162
	53	Cr	-10.464199	20.428	120954.663	ug/L	134759.291
	61	Ni	-2.024184	27.513	1560.869	ug/L	1658.939
	63	Cu	0.008134	83.938	113.003	ug/L	96.669
	67	Zn	-5.342523	29.600	3080.422	ug/L	3578.495
	66	Zn	0.040406	40.958	193.342	ug/L	173.007
	76	Se	-1.220201	1176.618	-179594.434	ug/L	-180610.338
	77	Se	-5.598690	6.095	9972.133	ug/L	11084.088
	78	Se	-0.583035	31.547	16483.002	ug/L	16939.801
	79	Br	-1.797784	332.216	27319.666	ug/L	27666.034

>	72 Ge			1276081.797	ug/L	1283862.583
	108 Cd	0.008404	223.779	8.717	ug/L	7.655
	114 Cd	0.009982	57.131	171.542	ug/L	124.770
	109 Ag	0.003426	103.967	51.667	ug/L	42.000
>	115 In			1038353.318	ug/L	1066853.750
	208 207.977	0.018801	10.517	1203.447	ug/L	967.407
	207 Pb	0.017917	30.839	471.017	ug/L	380.345
	206 Pb	0.018049	20.755	582.027	ug/L	462.350
>	169 Tm			720488.014	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	98.070
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	99.394
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	97.329
	Tl	205	
	Pb	208	
>	Tm-1	169	
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	99.394
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	97.329
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	98.952

Sample ID: CCV 3
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 15:10:08
Method File: C:\elandata\Method\000-USGS.mth
Dataset File: C:\elandata\Dataset\101215b1\CCV 3.024
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1349002.367	ug/L	1384549.233
>	6	Li-1			331322.610	ug/L	317652.872
	9	Be	100.060729	1.448	30059.175	ug/L	10.667
	27	Al	5236.597744	0.618	30695194.656	ug/L	17564.542
	44	Ca	5129.612935	0.520	1670369.579	ug/L	45728.053
	51	V	101.202840	0.393	1174817.311	ug/L	-10978.900
	52	Cr	100.237692	0.338	1076868.422	ug/L	34669.526
	55	Mn	101.056037	0.706	1667201.916	ug/L	2334.428
	54	Fe	5131.073516	0.380	4251153.917	ug/L	99938.318
	57	Fe	5119.360411	1.138	1710190.584	ug/L	11618.735
	59	Co	99.402701	0.902	1224028.607	ug/L	338.676
	60	Ni	98.897714	0.941	259465.759	ug/L	283.503
	65	Cu	100.378338	0.262	270040.762	ug/L	150.394
	68	Zn	100.536555	1.003	104834.941	ug/L	989.069
	75	As	100.358472	0.240	272983.774	ug/L	16897.890
	82	Se	99.466944	0.218	24856.152	ug/L	1510.739
>	72	Ge-1			1251565.364	ug/L	1283862.583
	107	Ag	49.232413	0.754	441788.830	ug/L	121.001
	111	Cd	98.607635	0.369	206853.860	ug/L	49.951
	121	Sb	49.874599	0.534	360945.182	ug/L	218.337
	135	Ba	100.679394	0.701	185197.216	ug/L	168.336
>	115	In-1			1017019.118	ug/L	1066853.750
	205	Tl	49.677373	0.937	872510.047	ug/L	5492.100
	208	Pb	99.223043	0.228	2454168.266	ug/L	1810.102
>	169	Tm-1			704804.498	ug/L	728122.165
	50	Cr	100.448676	1.472	21812.665	ug/L	-927.162
	53	Cr	86.810552	2.604	237030.951	ug/L	134759.291
	61	Ni	97.546202	4.434	5776.337	ug/L	1658.939
	63	Cu	98.947272	1.371	202065.290	ug/L	96.669
	67	Zn	97.066479	3.575	11975.482	ug/L	3578.495
	66	Zn	100.585831	0.354	52378.362	ug/L	173.007
	76	Se	60.027006	31.703	-172230.815	ug/L	-180610.338
	77	Se	90.632896	0.671	27392.875	ug/L	11084.088
	78	Se	99.151721	0.582	75566.777	ug/L	16939.801
	79	Br	29.618796	9.194	29848.254	ug/L	27666.034

>	72 Ge			1251565.364	ug/L	1283862.583
	108 Cd	99.618658	0.695	14480.302	ug/L	7.655
	114 Cd	99.690299	0.146	490767.821	ug/L	124.770
	109 Ag	49.531689	0.639	152931.491	ug/L	42.000
>	115 In			1017019.118	ug/L	1066853.750
	208 207.977	99.585088	0.374	1275935.323	ug/L	967.407
	207 Pb	98.939523	0.345	511869.365	ug/L	380.345
	206 Pb	98.753006	0.117	666363.578	ug/L	462.350
>	169 Tm			704804.498	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	104.303
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	97.484
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	95.329
	Tl	205	
	Pb	208	
>	Tm-1	169	
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	97.484
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	95.329
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	96.798

Sample ID: CCB 3
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 15:14:29
Method File: C:\elandata\Method\000-USGS.mth
Dataset File: C:\elandata\Dataset\101215b1\CCB 3.025
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1369950.712	ug/L	1384549.233
>	6	Li-1			325763.683	ug/L	317652.872
	9	Be	0.001340	146.639	11.333	ug/L	10.667
	27	Al	1.368117	111.979	25332.075	ug/L	17564.542
	44	Ca	-5.560748	24.825	43078.657	ug/L	45728.053
	51	V	0.201400	85.427	-8404.193	ug/L	-10978.900
	52	Cr	-0.382397	5.455	30003.574	ug/L	34669.526
	55	Mn	-0.002384	201.643	2250.065	ug/L	2334.428
	54	Fe	-2.687728	37.878	95833.668	ug/L	99938.318
	57	Fe	-2.628812	19.759	10517.931	ug/L	11618.735
	59	Co	0.007536	97.278	425.348	ug/L	338.676
	60	Ni	0.008398	66.844	300.184	ug/L	283.503
	65	Cu	0.018863	64.983	198.573	ug/L	150.394
	68	Zn	-0.056967	76.622	910.854	ug/L	989.069
	75	As	-0.106218	143.980	16299.503	ug/L	16897.890
	82	Se	0.020063	630.842	1486.677	ug/L	1510.739
>	72	Ge-1			1259314.712	ug/L	1283862.583
	107	Ag	0.003097	69.431	144.335	ug/L	121.001
	111	Cd	0.010040	85.546	69.276	ug/L	49.951
	121	Sb	0.011681	17.511	295.007	ug/L	218.337
	135	Ba	0.004604	192.518	170.336	ug/L	168.336
>	115	In-1			1025159.028	ug/L	1066853.750
	205	Tl	0.076277	143.312	6730.752	ug/L	5492.100
	208	Pb	0.028359	7.784	2484.191	ug/L	1810.102
>	169	Tm-1			713751.575	ug/L	728122.165
	50	Cr	0.771604	25.429	-733.727	ug/L	-927.162
	53	Cr	-20.173224	3.432	107475.692	ug/L	134759.291
	61	Ni	-1.774234	103.615	1551.531	ug/L	1658.939
	63	Cu	0.030754	17.418	158.006	ug/L	96.669
	67	Zn	-8.775760	16.078	2738.318	ug/L	3578.495
	66	Zn	0.022877	58.291	181.674	ug/L	173.007
	76	Se	-10.977874	70.715	-177865.918	ug/L	-180610.338
	77	Se	-14.054801	4.610	8283.773	ug/L	11084.088
	78	Se	-0.971446	20.701	16033.249	ug/L	16939.801
	79	Br	-20.784391	26.851	25104.964	ug/L	27666.034

>	72 Ge			1259314.712	ug/L	1283862.583
	108 Cd	0.030998	47.159	11.902	ug/L	7.655
	114 Cd	0.008232	94.193	160.844	ug/L	124.770
	109 Ag	0.002127	120.992	47.000	ug/L	42.000
>	115 In			1025159.028	ug/L	1066853.750
	208 207.977	0.028702	12.584	1320.470	ug/L	967.407
	207 Pb	0.029640	16.069	528.022	ug/L	380.345
	206 Pb	0.026724	10.377	635.698	ug/L	462.350
>	169 Tm			713751.575	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	102.553
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
>	Ge-1	72	98.088
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	96.092
	Tl	205	
	Pb	208	
>	Tm-1	169	
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	98.088
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	96.092
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	98.026

Sample ID: CCV 4
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 15:18:50
Method File: C:\elandata\Method\000-TRC-AIRTEK.mth
Dataset File: C:\elandata\Dataset\101215b1\CCV 4.026
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	6	Li-1			336195.063	ug/L	317652.872
	9	Be	100.059774	1.894	30500.258	ug/L	10.667
	52	Cr	98.643539	0.981	1041104.070	ug/L	34669.526
	55	Mn	98.478860	0.745	1595402.053	ug/L	2334.428
	60	Ni	97.049004	1.338	250013.941	ug/L	283.503
	65	Cu	100.175682	0.836	264619.713	ug/L	150.394
	68	Zn	99.155772	0.060	101543.444	ug/L	989.069
>	72	Ge-1			1228968.559	ug/L	1283862.583
	111	Cd	99.230990	0.539	209733.762	ug/L	49.951
	121	Sb	50.011403	0.731	364667.165	ug/L	218.337
	135	Ba	101.415378	0.345	187964.637	ug/L	168.336
>	115	In-1			1024721.090	ug/L	1066853.750
	208	Pb	98.516296	0.334	2478151.117	ug/L	1810.102
>	169	Tm-1			716802.119	ug/L	728122.165
	114	Cd	99.879855	0.493	495416.063	ug/L	124.770
>	115	In			1024721.090	ug/L	1066853.750

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	105.837
	Be	9	
	Cr	52	
	Mn	55	
	Ni	60	
	Cu	65	
	Zn	68	
>	Ge-1	72	95.724
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	96.051
	Pb	208	
>	Tm-1	169	98.445
	Cd	114	
>	In	115	96.051

Sample ID: CCB 4
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 15:22:14
Method File: C:\elandata\Method\000-TRC-AIRTEK.mth
Dataset File: C:\elandata\Dataset\101215b1\CCB 4.027
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	6	Li-1			340855.991	ug/L	317652.872
	9	Be	-0.010066	37.512	8.333	ug/L	10.667
	52	Cr	-0.350213	16.031	29850.856	ug/L	34669.526
	55	Mn	-0.006626	9.148	2145.028	ug/L	2334.428
	60	Ni	-0.005954	9.523	258.177	ug/L	283.503
	65	Cu	0.005002	75.908	158.459	ug/L	150.394
	68	Zn	0.017315	391.222	972.474	ug/L	989.069
>	72	Ge-1			1239144.583	ug/L	1283862.583
	111	Cd	-0.002625	159.341	43.336	ug/L	49.951
	121	Sb	0.002546	50.975	233.004	ug/L	218.337
	135	Ba	-0.002530	447.094	160.335	ug/L	168.336
>	115	In-1			1046111.645	ug/L	1066853.750
	208	Pb	0.009801	27.188	2065.131	ug/L	1810.102
>	169	Tm-1			729770.257	ug/L	728122.165
	114	Cd	-0.000098	1181.001	121.868	ug/L	124.770
>	115	In			1046111.645	ug/L	1066853.750

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	107.305
	Be	9	
	Cr	52	
	Mn	55	
	Ni	60	
	Cu	65	
	Zn	68	
>	Ge-1	72	96.517
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	98.056
	Pb	208	
>	Tm-1	169	100.226
	Cd	114	
>	In	115	98.056

Sample ID: CCV 5
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 15:25:38
Method File: C:\elandata\Method\000-TRC-AIRTEK.mth
Dataset File: C:\elandata\Dataset\101215b1\CCV 5.028
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	6	Li-1			340751.476	ug/L	317652.872
	9	Be	99.994771	0.924	30898.174	ug/L	10.667
	52	Cr	97.352028	0.556	1041412.944	ug/L	34669.526
	55	Mn	98.323672	0.246	1613772.982	ug/L	2334.428
	60	Ni	97.604803	0.817	254741.271	ug/L	283.503
	65	Cu	99.492870	0.947	266265.354	ug/L	150.394
	68	Zn	98.624512	0.785	102326.473	ug/L	989.069
>	72	Ge-1			1245056.442	ug/L	1283862.583
	111	Cd	98.795435	0.422	209544.712	ug/L	49.951
	121	Sb	50.155942	1.000	366993.425	ug/L	218.337
	135	Ba	101.166836	1.081	188160.877	ug/L	168.336
>	115	In-1			1028301.895	ug/L	1066853.750
	208	Pb	97.947612	1.024	2489323.383	ug/L	1810.102
>	169	Tm-1			724236.632	ug/L	728122.165
	114	Cd	100.118763	0.817	498341.283	ug/L	124.770
>	115	In			1028301.895	ug/L	1066853.750

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	107.272
	Be	9	
	Cr	52	
	Mn	55	
	Ni	60	
	Cu	65	
	Zn	68	
>	Ge-1	72	96.977
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	96.386
	Pb	208	
>	Tm-1	169	99.466
	Cd	114	
>	In	115	96.386

Sample ID: CCB 5
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 15:29:02
Method File: C:\elandata\Method\000-TRC-AIRTEK.mth
Dataset File: C:\elandata\Dataset\101215b1\CCB 5.029
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	6	Li-1			336463.764	ug/L	317652.872
	9	Be	0.007731	103.520	13.667	ug/L	10.667
	52	Cr	-0.523488	6.989	28360.389	ug/L	34669.526
	55	Mn	0.002128	206.801	2311.753	ug/L	2334.428
	60	Ni	0.006509	39.302	293.573	ug/L	283.503
	65	Cu	0.016744	23.550	191.649	ug/L	150.394
	68	Zn	-0.035447	39.003	927.898	ug/L	989.069
>	72	Ge-1			1252146.762	ug/L	1283862.583
	111	Cd	0.010636	11.835	72.407	ug/L	49.951
	121	Sb	0.007231	18.126	269.672	ug/L	218.337
	135	Ba	0.002860	284.956	171.669	ug/L	168.336
>	115	In-1			1052939.823	ug/L	1066853.750
	208	Pb	0.025637	17.064	2496.192	ug/L	1810.102
>	169	Tm-1			737483.171	ug/L	728122.165
	114	Cd	0.011288	29.145	180.714	ug/L	124.770
>	115	In			1052939.823	ug/L	1066853.750

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	105.922
	Be	9	
	Cr	52	
	Mn	55	
	Ni	60	
	Cu	65	
	Zn	68	
>	Ge-1	72	97.530
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	98.696
	Pb	208	
>	Tm-1	169	101.286
	Cd	114	
>	In	115	98.696

Sample ID: CCV 6
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 16:05:14
Method File: C:\elandata\Method\000-TRC-AIRTEK.mth
Dataset File: C:\elandata\Dataset\101215b1\CCV 6.040
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	6	Li-1			347441.036	ug/L	317652.872
⌊	9	Be	99.474461	2.498	31334.966	ug/L	10.667
⌈	52	Cr	99.462080	1.240	1089389.679	ug/L	34669.526
|	55	Mn	100.161681	0.813	1684334.456	ug/L	2334.428
|	60	Ni	99.840682	1.205	266980.606	ug/L	283.503
|	65	Cu	101.232227	0.962	277583.738	ug/L	150.394
|	68	Zn	99.392153	0.921	105652.794	ug/L	989.069
⌊>	72	Ge-1			1275738.056	ug/L	1283862.583
⌈	111	Cd	99.681495	1.312	216723.748	ug/L	49.951
|	121	Sb	50.435329	1.584	378284.717	ug/L	218.337
|	135	Ba	101.673407	2.257	193822.568	ug/L	168.336
⌊>	115	In-1			1054198.521	ug/L	1066853.750
⌈	208	Pb	99.975958	0.849	2570076.517	ug/L	1810.102
⌊>	169	Tm-1			732552.022	ug/L	728122.165
⌈	114	Cd	100.421921	1.058	512393.972	ug/L	124.770
⌊>	115	In			1054198.521	ug/L	1066853.750

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈>	Li-1	6	109.378
⌊	Be	9	
⌈	Cr	52	
|	Mn	55	
|	Ni	60	
|	Cu	65	
|	Zn	68	
⌊>	Ge-1	72	99.367
⌈	Cd	111	
|	Sb	121	
|	Ba	135	
⌊>	In-1	115	98.814
⌈	Pb	208	
⌊>	Tm-1	169	100.608
⌈	Cd	114	
⌊>	In	115	98.814

Sample ID: CCB 6
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 16:08:38
Method File: C:\elandata\Method\000-TRC-AIRTEK.mth
Dataset File: C:\elandata\Dataset\101215b1\CCB 6.041
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	6	Li-1			343891.911	ug/L	317652.872
⌊	9	Be	0.072233	62.549	34.333	ug/L	10.667
⌈	52	Cr	-0.482264	5.286	29366.606	ug/L	34669.526
|	55	Mn	0.067031	73.748	3456.646	ug/L	2334.428
|	60	Ni	0.066585	63.867	461.169	ug/L	283.503
|	65	Cu	0.081903	55.083	375.410	ug/L	150.394
⌊	68	Zn	-0.113287	31.350	864.879	ug/L	989.069
⌊>	72	Ge-1			1277235.142	ug/L	1283862.583
⌈	111	Cd	0.080616	43.697	229.209	ug/L	49.951
|	121	Sb	0.052113	41.991	618.698	ug/L	218.337
⌊	135	Ba	0.075873	55.967	317.008	ug/L	168.336
⌊>	115	In-1			1072431.463	ug/L	1066853.750
⌈	208	Pb	0.096943	38.496	4413.616	ug/L	1810.102
⌊>	169	Tm-1			748423.451	ug/L	728122.165
⌈	114	Cd	0.077350	53.913	529.115	ug/L	124.770
⌊>	115	In			1072431.463	ug/L	1066853.750

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈>	Li-1	6	108.260
⌊	Be	9	
⌈	Cr	52	
|	Mn	55	
|	Ni	60	
|	Cu	65	
⌊	Zn	68	
⌊>	Ge-1	72	99.484
⌈	Cd	111	
|	Sb	121	
⌊	Ba	135	
⌊>	In-1	115	100.523
⌈	Pb	208	
⌊>	Tm-1	169	102.788
⌈	Cd	114	
⌊>	In	115	100.523

Sample ID: CCV 7
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 16:12:02
Method File: C:\elandata\Method\000-TRC-AIRTEK.mth
Dataset File: C:\elandata\Dataset\101215b1\CCV 7.042
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	6	Li-1			346156.791	ug/L	317652.872
⌊	9	Be	99.635497	3.548	31240.848	ug/L	10.667
⌈	52	Cr	97.357758	1.484	1065289.012	ug/L	34669.526
⌋	55	Mn	98.092789	2.015	1646666.033	ug/L	2334.428
⌋	60	Ni	97.247133	1.539	259614.787	ug/L	283.503
⌋	65	Cu	98.465474	1.609	269540.708	ug/L	150.394
⌋	68	Zn	97.220297	2.533	103173.848	ug/L	989.069
⌊>	72	Ge-1			1273835.277	ug/L	1283862.583
⌈	111	Cd	96.856000	0.996	211383.214	ug/L	49.951
⌋	121	Sb	49.373221	1.010	371742.017	ug/L	218.337
⌋	135	Ba	99.920537	1.700	191215.039	ug/L	168.336
⌊>	115	In-1			1058160.732	ug/L	1066853.750
⌈	208	Pb	97.718503	0.566	2539197.436	ug/L	1810.102
⌊>	169	Tm-1			740481.443	ug/L	728122.165
⌈	114	Cd	97.761800	1.894	500666.740	ug/L	124.770
⌊>	115	In			1058160.732	ug/L	1066853.750

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈>	Li-1	6	108.973
⌊	Be	9	
⌈	Cr	52	
⌋	Mn	55	
⌋	Ni	60	
⌋	Cu	65	
⌋	Zn	68	
⌊>	Ge-1	72	99.219
⌈	Cd	111	
⌋	Sb	121	
⌋	Ba	135	
⌊>	In-1	115	99.185
⌈	Pb	208	
⌊>	Tm-1	169	101.697
⌈	Cd	114	
⌊>	In	115	99.185

Sample ID: CCB 7
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 16:15:25
Method File: C:\elandata\Method\000-TRC-AIRTEK.mth
Dataset File: C:\elandata\Dataset\101215b1\CCB 7.043
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	6	Li-1			338050.415	ug/L	317652.872
⌊	9	Be	0.061754	44.280	30.333	ug/L	10.667
⌈	52	Cr	-0.548675	10.838	28637.982	ug/L	34669.526
|	55	Mn	0.055101	42.056	3245.502	ug/L	2334.428
|	60	Ni	0.070042	31.148	468.884	ug/L	283.503
|	65	Cu	0.084463	26.954	380.975	ug/L	150.394
|	68	Zn	-0.064725	73.536	914.876	ug/L	989.069
⌊>	72	Ge-1			1276082.663	ug/L	1283862.583
⌈	111	Cd	0.063046	24.324	188.979	ug/L	49.951
|	121	Sb	0.039382	23.946	518.021	ug/L	218.337
|	135	Ba	0.062624	18.735	289.673	ug/L	168.336
⌊>	115	In-1			1069379.312	ug/L	1066853.750
⌈	208	Pb	0.089647	24.688	4193.213	ug/L	1810.102
⌊>	169	Tm-1			744646.248	ug/L	728122.165
⌈	114	Cd	0.075455	25.276	515.135	ug/L	124.770
⌊>	115	In			1069379.312	ug/L	1066853.750

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈>	Li-1	6	106.421
⌊	Be	9	
⌈	Cr	52	
|	Mn	55	
|	Ni	60	
|	Cu	65	
|	Zn	68	
⌊>	Ge-1	72	99.394
⌈	Cd	111	
|	Sb	121	
|	Ba	135	
⌊>	In-1	115	100.237
⌈	Pb	208	
⌊>	Tm-1	169	102.269
⌈	Cd	114	
⌊>	In	115	100.237

Sample ID: CCV 8
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 16:51:56
Method File: C:\elandata\Method\000-TRC-AIRTEK.mth
Dataset File: C:\elandata\Dataset\101215b1\CCV 8.054
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	6	Li-1			354381.964	ug/L	317652.872
[	9	Be	103.114191	1.308	33134.375	ug/L	10.667
[	52	Cr	99.547564	0.554	1122549.701	ug/L	34669.526
[	55	Mn	99.874733	0.890	1729005.571	ug/L	2334.428
[	60	Ni	98.891927	0.777	272274.956	ug/L	283.503
[	65	Cu	100.323934	0.377	283221.795	ug/L	150.394
[	68	Zn	99.226971	0.847	108585.878	ug/L	989.069
[>	72	Ge-1			1313357.698	ug/L	1283862.583
[	111	Cd	98.891684	0.414	215416.786	ug/L	49.951
[	121	Sb	50.559940	1.049	379912.553	ug/L	218.337
[	135	Ba	101.958834	1.026	194754.861	ug/L	168.336
[>	115	In-1			1056073.746	ug/L	1066853.750
[	208	Pb	99.543538	0.390	2586096.825	ug/L	1810.102
[>	169	Tm-1			740309.712	ug/L	728122.165
[	114	Cd	99.920914	0.338	510787.899	ug/L	124.770
[>	115	In			1056073.746	ug/L	1066853.750

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
[>	Li-1	6	111.563
[	Be	9	
[	Cr	52	
[	Mn	55	
[	Ni	60	
[	Cu	65	
[	Zn	68	
[>	Ge-1	72	102.297
[	Cd	111	
[	Sb	121	
[	Ba	135	
[>	In-1	115	98.990
[	Pb	208	
[>	Tm-1	169	101.674
[	Cd	114	
[>	In	115	98.990

Sample ID: CCB 8
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 16:55:19
Method File: C:\elandata\Method\000-TRC-AIRTEK.mth
Dataset File: C:\elandata\Dataset\101215b1\CCB 8.055
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	6	Li-1			361017.381	ug/L	317652.872
⌊	9	Be	0.064329	43.961	33.333	ug/L	10.667
⌈	52	Cr	-0.282476	3.785	32161.400	ug/L	34669.526
|	55	Mn	0.078871	40.786	3728.443	ug/L	2334.428
|	60	Ni	0.083566	41.740	516.665	ug/L	283.503
|	65	Cu	0.120382	31.002	490.572	ug/L	150.394
|	68	Zn	-0.159674	8.810	833.020	ug/L	989.069
⌊>	72	Ge-1			1304451.893	ug/L	1283862.583
⌈	111	Cd	0.096644	36.462	266.822	ug/L	49.951
|	121	Sb	0.062346	18.447	702.039	ug/L	218.337
|	135	Ba	0.088854	37.778	345.010	ug/L	168.336
⌊>	115	In-1			1083093.257	ug/L	1066853.750
⌈	208	Pb	0.102736	21.489	4604.326	ug/L	1810.102
⌊>	169	Tm-1			755918.813	ug/L	728122.165
⌈	114	Cd	0.090646	24.099	602.114	ug/L	124.770
⌊>	115	In			1083093.257	ug/L	1066853.750

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈>	Li-1	6	113.652
⌊	Be	9	
⌈	Cr	52	
|	Mn	55	
|	Ni	60	
|	Cu	65	
|	Zn	68	
⌊>	Ge-1	72	101.604
⌈	Cd	111	
|	Sb	121	
|	Ba	135	
⌊>	In-1	115	101.522
⌈	Pb	208	
⌊>	Tm-1	169	103.818
⌈	Cd	114	
⌊>	In	115	101.522

Sample ID: CCV 9
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 16:58:43
Method File: C:\elandata\Method\000-TRC-AIRTEK.mth
Dataset File: C:\elandata\Dataset\101215b1\CCV 9.056
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	6	Li-1			357323.000	ug/L	317652.872
⌊	9	Be	102.247491	1.749	33124.328	ug/L	10.667
⌈	52	Cr	99.690448	0.876	1108248.508	ug/L	34669.526
|	55	Mn	99.465879	0.271	1697778.555	ug/L	2334.428
|	60	Ni	98.359509	0.510	266972.652	ug/L	283.503
|	65	Cu	100.382122	0.796	279378.611	ug/L	150.394
|	68	Zn	98.860903	0.341	106670.732	ug/L	989.069
⌊>	72	Ge-1			1294873.625	ug/L	1283862.583
⌈	111	Cd	98.327780	0.986	213832.234	ug/L	49.951
|	121	Sb	50.449237	1.051	378484.326	ug/L	218.337
|	135	Ba	101.752432	1.525	194024.109	ug/L	168.336
⌊>	115	In-1			1054434.328	ug/L	1066853.750
⌈	208	Pb	98.982692	0.621	2571601.876	ug/L	1810.102
⌊>	169	Tm-1			740351.755	ug/L	728122.165
⌈	114	Cd	99.741195	0.814	509036.995	ug/L	124.770
⌊>	115	In			1054434.328	ug/L	1066853.750

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈>	Li-1	6	112.489
⌊	Be	9	
⌈	Cr	52	
|	Mn	55	
|	Ni	60	
|	Cu	65	
|	Zn	68	
⌊>	Ge-1	72	100.858
⌈	Cd	111	
|	Sb	121	
|	Ba	135	
⌊>	In-1	115	98.836
⌈	Pb	208	
⌊>	Tm-1	169	101.680
⌈	Cd	114	
⌊>	In	115	98.836

Sample ID: CCB 9
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 17:02:07
Method File: C:\elandata\Method\000-TRC-AIRTEK.mth
Dataset File: C:\elandata\Dataset\101215b1\CCB 9.057
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	6	Li-1			353647.803	ug/L	317652.872
|	9	Be	0.091090	52.776	41.333	ug/L	10.667
⌈	52	Cr	-0.414899	7.075	30589.681	ug/L	34669.526
|	55	Mn	0.102134	36.073	4108.347	ug/L	2334.428
|	60	Ni	0.116148	40.259	602.883	ug/L	283.503
|	65	Cu	0.134436	31.504	527.441	ug/L	150.394
|	68	Zn	-0.067339	55.332	928.304	ug/L	989.069
⌊>	72	Ge-1			1298729.366	ug/L	1283862.583
⌈	111	Cd	0.123008	34.434	322.542	ug/L	49.951
|	121	Sb	0.066054	29.415	723.709	ug/L	218.337
|	135	Ba	0.101225	36.194	365.677	ug/L	168.336
⌊>	115	In-1			1072870.478	ug/L	1066853.750
⌈	208	Pb	0.128609	22.245	5233.848	ug/L	1810.102
⌊>	169	Tm-1			747642.278	ug/L	728122.165
⌈	114	Cd	0.114765	27.431	721.641	ug/L	124.770
⌊>	115	In			1072870.478	ug/L	1066853.750

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈>	Li-1	6	111.332
⌊	Be	9	
⌈	Cr	52	
|	Mn	55	
|	Ni	60	
|	Cu	65	
|	Zn	68	
⌊>	Ge-1	72	101.158
⌈	Cd	111	
|	Sb	121	
|	Ba	135	
⌊>	In-1	115	100.564
⌈	Pb	208	
⌊>	Tm-1	169	102.681
⌈	Cd	114	
⌊>	In	115	100.564

Sample ID: CCV 10
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 17:38:16
Method File: C:\elandata\Method\000-TRC-AIRTEK.mth
Dataset File: C:\elandata\Dataset\101215b1\CCV 10.068
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈>	6	Li-1			351116.301	ug/L	317652.872
⌊	9	Be	103.991276	2.070	33105.892	ug/L	10.667
⌈	52	Cr	99.997348	3.464	1115265.188	ug/L	34669.526
|	55	Mn	100.686242	3.001	1724461.840	ug/L	2334.428
|	60	Ni	99.286002	2.978	270414.133	ug/L	283.503
|	65	Cu	100.866746	2.858	281701.619	ug/L	150.394
|	68	Zn	99.754637	2.319	108005.634	ug/L	989.069
⌊>	72	Ge-1			1299832.930	ug/L	1283862.583
⌈	111	Cd	99.043529	2.457	214060.062	ug/L	49.951
|	121	Sb	50.696185	2.545	377985.452	ug/L	218.337
|	135	Ba	100.720571	1.828	190897.662	ug/L	168.336
⌊>	115	In-1			1048099.458	ug/L	1066853.750
⌈	208	Pb	101.954866	4.111	2566925.855	ug/L	1810.102
⌊>	169	Tm-1			718290.457	ug/L	728122.165
⌈	114	Cd	100.185960	2.964	508104.022	ug/L	124.770
⌊>	115	In			1048099.458	ug/L	1066853.750

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈>	Li-1	6	110.535
⌊	Be	9	
⌈	Cr	52	
|	Mn	55	
|	Ni	60	
|	Cu	65	
|	Zn	68	
⌊>	Ge-1	72	101.244
⌈	Cd	111	
|	Sb	121	
|	Ba	135	
⌊>	In-1	115	98.242
⌈	Pb	208	
⌊>	Tm-1	169	98.650
⌈	Cd	114	
⌊>	In	115	98.242

Sample ID: CCB 10
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 17:41:40
Method File: C:\elandata\Method\000-TRC-AIRTEK.mth
Dataset File: C:\elandata\Dataset\101215b1\CCB 10.069
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[>	6	Li-1			353338.800	ug/L	317652.872
[	9	Be	0.134798	44.189	55.334	ug/L	10.667
[	52	Cr	-0.301535	4.742	31872.958	ug/L	34669.526
[	55	Mn	0.110972	44.181	4265.131	ug/L	2334.428
[	60	Ni	0.115117	38.954	600.733	ug/L	283.503
[	65	Cu	0.159537	37.609	598.075	ug/L	150.394
[	68	Zn	-0.141347	28.813	850.497	ug/L	989.069
[>	72	Ge-1			1301079.470	ug/L	1283862.583
[	111	Cd	0.115724	41.173	302.326	ug/L	49.951
[	121	Sb	0.074587	26.665	778.049	ug/L	218.337
[	135	Ba	0.120637	27.294	397.679	ug/L	168.336
[>	115	In-1			1057418.852	ug/L	1066853.750
[	208	Pb	0.121817	28.483	4994.452	ug/L	1810.102
[>	169	Tm-1			739090.632	ug/L	728122.165
[	114	Cd	0.120273	24.400	739.942	ug/L	124.770
[>	115	In			1057418.852	ug/L	1066853.750

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
[>	Li-1	6	111.234
[	Be	9	
[	Cr	52	
[	Mn	55	
[	Ni	60	
[	Cu	65	
[	Zn	68	
[>	Ge-1	72	101.341
[	Cd	111	
[	Sb	121	
[	Ba	135	
[>	In-1	115	99.116
[	Pb	208	
[>	Tm-1	169	101.506
[	Cd	114	
[>	In	115	99.116

Sample ID: CCV 11
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 17:45:05
Method File: C:\elandata\Method\000-CleanHarbor.mth
Dataset File: C:\elandata\Dataset\101215b1\CCV 11.070
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 7
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌜	44	Ca	4569.215527	0.691	1526982.694	ug/L	45728.053
|	52	Cr	96.335164	0.142	1060051.520	ug/L	34669.526
|	55	Mn	96.630496	0.903	1630852.066	ug/L	2334.428
|	60	Ni	96.420840	0.902	258780.189	ug/L	283.503
|	75	As	97.836781	1.217	272638.114	ug/L	16897.890
⌞>	72	Ge-1			1280301.244	ug/L	1283862.583
⌜	111	Cd	96.967184	1.113	205238.780	ug/L	49.951
⌞>	115	In-1			1026197.374	ug/L	1066853.750
⌜	208	Pb	98.059325	0.676	2447806.412	ug/L	1810.102
⌞>	169	Tm-1			711344.621	ug/L	728122.165
⌜	50	Cr	106.706703	3.319	23762.546	ug/L	-927.162
|	53	Cr	-46.541401	1.616	76433.688	ug/L	134759.291
|	61	Ni	91.042351	1.015	5624.952	ug/L	1658.939
⌞>	72	Ge			1280301.244	ug/L	1283862.583
⌜	108	Cd	97.315061	2.016	14271.165	ug/L	7.655
|	114	Cd	97.339853	1.045	483492.229	ug/L	124.770
⌞>	115	In			1026197.374	ug/L	1066853.750
⌜	208	207.977	98.818896	0.763	1277836.396	ug/L	967.407
|	207	Pb	97.621346	0.969	509696.712	ug/L	380.345
|	206	Pb	96.952936	0.510	660273.303	ug/L	462.350
⌞>	169	Tm			711344.621	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌜	Ca	44	
|	Cr	52	
|	Mn	55	
|	Ni	60	
|	As	75	
⌞>	Ge-1	72	99.723
⌜	Cd	111	
⌞>	In-1	115	96.189
⌜	Pb	208	
⌞>	Tm-1	169	97.696
⌜	Cr	50	
|	Cr	53	
|	Ni	61	

⌊>	Ge	72	99.723
⌈	Cd	108	
|	Cd	114	
⌊>	In	115	96.189
⌈	207.977	208	
|	Pb	207	
|	Pb	206	
⌊>	Tm	169	97.696

Sample ID: CCB 11
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 17:48:31
Method File: C:\elandata\Method\000-CleanHarbor.mth
Dataset File: C:\elandata\Dataset\101215b1\CCB 11.071
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 8
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	-31.872659	7.781	35114.309	ug/L	45728.053
|	52	Cr	-0.980216	6.750	24034.326	ug/L	34669.526
|	55	Mn	0.067021	66.522	3441.960	ug/L	2334.428
|	60	Ni	0.041196	109.545	391.375	ug/L	283.503
|	75	As	-0.096022	146.858	16527.643	ug/L	16897.890
⌊>	72	Ge-1			1274767.897	ug/L	1283862.583
⌈	111	Cd	0.049812	53.591	157.170	ug/L	49.951
⌊>	115	In-1			1050671.263	ug/L	1066853.750
⌈	208	Pb	0.111623	25.899	4626.007	ug/L	1810.102
⌊>	169	Tm-1			722763.315	ug/L	728122.165
⌈	50	Cr	3.781081	5.147	-49.654	ug/L	-927.162
|	53	Cr	-89.635448	0.210	22686.678	ug/L	134759.291
|	61	Ni	-4.793411	30.601	1439.123	ug/L	1658.939
⌊>	72	Ge			1274767.897	ug/L	1283862.583
⌈	108	Cd	0.098117	42.486	22.260	ug/L	7.655
|	114	Cd	0.059220	55.920	424.212	ug/L	124.770
⌊>	115	In			1050671.263	ug/L	1066853.750
⌈	208	207.977	0.114267	25.962	2460.483	ug/L	967.407
|	207	Pb	0.107969	27.724	950.072	ug/L	380.345
|	206	Pb	0.109405	25.901	1215.451	ug/L	462.350
⌊>	169	Tm			722763.315	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Cr	52	
|	Mn	55	
|	Ni	60	
|	As	75	
⌊>	Ge-1	72	99.292
⌈	Cd	111	
⌊>	In-1	115	98.483
⌈	Pb	208	
⌊>	Tm-1	169	99.264
⌈	Cr	50	
|	Cr	53	
|	Ni	61	

|>	Ge	72	99.292
⌈	Cd	108	
|	Cd	114	
|>	In	115	98.483
⌈	207.977	208	
|	Pb	207	
|	Pb	206	
|>	Tm	169	99.264

Sample ID: CCV 12
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 17:51:58
Method File: C:\elandata\Method\000-CleanHarbor.mth
Dataset File: C:\elandata\Dataset\101215b1\CCV 12.072
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 7
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	4540.257485	0.479	1523262.439	ug/L	45728.053
|	52	Cr	94.968961	0.695	1049413.172	ug/L	34669.526
|	55	Mn	95.959930	0.359	1625640.139	ug/L	2334.428
|	60	Ni	94.823354	0.808	255442.113	ug/L	283.503
|	75	As	96.089226	0.649	269085.349	ug/L	16897.890
⌊>	72	Ge-1			1285074.857	ug/L	1283862.583
⌈	111	Cd	94.803680	1.774	202622.850	ug/L	49.951
⌊>	115	In-1			1036278.734	ug/L	1066853.750
⌈	208	Pb	97.452460	0.152	2445286.754	ug/L	1810.102
⌊>	169	Tm-1			715001.990	ug/L	728122.165
⌈	50	Cr	105.659480	1.657	23606.410	ug/L	-927.162
|	53	Cr	-47.575902	0.375	75430.657	ug/L	134759.291
|	61	Ni	89.347798	2.596	5571.823	ug/L	1658.939
⌊>	72	Ge			1285074.857	ug/L	1283862.583
⌈	108	Cd	95.636463	1.284	14164.691	ug/L	7.655
|	114	Cd	96.554583	1.738	484290.237	ug/L	124.770
⌊>	115	In			1036278.734	ug/L	1066853.750
⌈	208	207.977	98.143484	0.345	1275696.147	ug/L	967.407
|	207	Pb	97.117088	0.433	509712.043	ug/L	380.345
|	206	Pb	96.397555	0.661	659878.563	ug/L	462.350
⌊>	169	Tm			715001.990	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Cr	52	
|	Mn	55	
|	Ni	60	
|	As	75	
⌊>	Ge-1	72	100.094
⌈	Cd	111	
⌊>	In-1	115	97.134
⌈	Pb	208	
⌊>	Tm-1	169	98.198
⌈	Cr	50	
|	Cr	53	
|	Ni	61	

|>	Ge	72	100.094
⌈	Cd	108	
|	Cd	114	
|>	In	115	97.134
⌈	207.977	208	
|	Pb	207	
|	Pb	206	
|>	Tm	169	98.198

Sample ID: CCB 12
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 17:55:23
Method File: C:\elandata\Method\000-CleanHarbor.mth
Dataset File: C:\elandata\Dataset\101215b1\CCB 12.073
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 8
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌜	44	Ca	-28.479746	7.693	36254.686	ug/L	45728.053
|	52	Cr	-0.981537	4.360	24049.708	ug/L	34669.526
|	55	Mn	0.095172	41.675	3921.232	ug/L	2334.428
|	60	Ni	0.062994	70.887	450.473	ug/L	283.503
|	75	As	0.168101	109.060	17234.069	ug/L	16897.890
⌞>	72	Ge-1			1276270.233	ug/L	1283862.583
⌜	111	Cd	0.087193	31.153	237.610	ug/L	49.951
⌞>	115	In-1			1048450.986	ug/L	1066853.750
⌜	208	Pb	0.142535	18.408	5393.906	ug/L	1810.102
⌞>	169	Tm-1			720632.351	ug/L	728122.165
⌜	50	Cr	3.727569	1.902	-61.979	ug/L	-927.162
|	53	Cr	-89.751964	0.284	22568.857	ug/L	134759.291
|	61	Ni	-5.766199	6.948	1398.430	ug/L	1658.939
⌞>	72	Ge			1276270.233	ug/L	1283862.583
⌜	108	Cd	0.101534	46.636	22.717	ug/L	7.655
|	114	Cd	0.082719	30.037	542.288	ug/L	124.770
⌞>	115	In			1048450.986	ug/L	1066853.750
⌜	208	207.977	0.144587	17.602	2850.311	ug/L	967.407
|	207	Pb	0.137196	19.888	1101.763	ug/L	380.345
|	206	Pb	0.142734	18.936	1441.832	ug/L	462.350
⌞>	169	Tm			720632.351	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌜	Ca	44	
|	Cr	52	
|	Mn	55	
|	Ni	60	
|	As	75	
⌞>	Ge-1	72	99.409
⌜	Cd	111	
⌞>	In-1	115	98.275
⌜	Pb	208	
⌞>	Tm-1	169	98.971
⌜	Cr	50	
|	Cr	53	
|	Ni	61	

└>	Ge	72	99.409
┌	Cd	108	
|	Cd	114	
└>	In	115	98.275
┌	207.977	208	
|	Pb	207	
|	Pb	206	
└>	Tm	169	98.971

Sample ID: CCV 13
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 18:31:55
Method File: C:\elandata\Method\000-CleanHarbor.mth
Dataset File: C:\elandata\Dataset\101215b1\CCV 13.084
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 7
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	4594.540542	0.461	1570154.183	ug/L	45728.053
|	52	Cr	96.816893	0.622	1089397.666	ug/L	34669.526
|	55	Mn	97.058984	0.770	1675229.175	ug/L	2334.428
|	60	Ni	96.501279	0.393	264877.293	ug/L	283.503
|	75	As	97.304619	0.655	277410.626	ug/L	16897.890
⌊>	72	Ge-1			1309378.001	ug/L	1283862.583
⌈	111	Cd	95.636503	1.923	206647.213	ug/L	49.951
⌊>	115	In-1			1047855.971	ug/L	1066853.750
⌈	208	Pb	97.638910	0.932	2457407.643	ug/L	1810.102
⌊>	169	Tm-1			717245.285	ug/L	728122.165
⌈	50	Cr	108.739185	2.136	24777.648	ug/L	-927.162
|	53	Cr	-48.420591	1.390	75774.483	ug/L	134759.291
|	61	Ni	89.850618	3.958	5699.140	ug/L	1658.939
⌊>	72	Ge			1309378.001	ug/L	1283862.583
⌈	108	Cd	95.514116	2.542	14299.568	ug/L	7.655
|	114	Cd	96.317137	0.933	488514.144	ug/L	124.770
⌊>	115	In			1047855.971	ug/L	1066853.750
⌈	208	207.977	98.226279	0.949	1280631.100	ug/L	967.407
|	207	Pb	97.506830	1.010	513314.540	ug/L	380.345
|	206	Pb	96.624952	0.873	663462.003	ug/L	462.350
⌊>	169	Tm			717245.285	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Cr	52	
|	Mn	55	
|	Ni	60	
|	As	75	
⌊>	Ge-1	72	101.987
⌈	Cd	111	
⌊>	In-1	115	98.219
⌈	Pb	208	
⌊>	Tm-1	169	98.506
⌈	Cr	50	
|	Cr	53	
|	Ni	61	

L>	Ge	72	101.987
⌈	Cd	108	
|	Cd	114	
L>	In	115	98.219
⌈	207.977	208	
|	Pb	207	
|	Pb	206	
L>	Tm	169	98.506

Sample ID: CCB 13
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 18:35:21
Method File: C:\elandata\Method\000-CleanHarbor.mth
Dataset File: C:\elandata\Dataset\101215b1\CCB 13.085
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 8
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	-29.824086	2.753	36434.700	ug/L	45728.053
|	52	Cr	-0.922827	7.445	25101.806	ug/L	34669.526
|	55	Mn	0.099387	49.717	4066.675	ug/L	2334.428
|	60	Ni	0.073831	50.259	488.269	ug/L	283.503
|	75	As	0.010499	1247.355	17111.416	ug/L	16897.890
⌊>	72	Ge-1			1298156.161	ug/L	1283862.583
⌈	111	Cd	0.086279	41.882	234.666	ug/L	49.951
⌊>	115	In-1			1041990.860	ug/L	1066853.750
⌈	208	Pb	0.140610	26.802	5344.232	ug/L	1810.102
⌊>	169	Tm-1			718836.136	ug/L	728122.165
⌈	50	Cr	3.790239	2.647	-48.162	ug/L	-927.162
|	53	Cr	-90.677601	0.192	21785.589	ug/L	134759.291
|	61	Ni	-6.674243	10.789	1382.421	ug/L	1658.939
⌊>	72	Ge			1298156.161	ug/L	1283862.583
⌈	108	Cd	0.094462	65.581	21.532	ug/L	7.655
|	114	Cd	0.079657	44.575	524.559	ug/L	124.770
⌊>	115	In			1041990.860	ug/L	1066853.750
⌈	208	207.977	0.142075	25.621	2816.638	ug/L	967.407
|	207	Pb	0.147245	25.026	1154.441	ug/L	380.345
|	206	Pb	0.132741	30.798	1373.153	ug/L	462.350
⌊>	169	Tm			718836.136	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Cr	52	
|	Mn	55	
|	Ni	60	
|	As	75	
⌊>	Ge-1	72	101.113
⌈	Cd	111	
⌊>	In-1	115	97.670
⌈	Pb	208	
⌊>	Tm-1	169	98.725
⌈	Cr	50	
|	Cr	53	
|	Ni	61	

L>	Ge	72	101.113
⌈	Cd	108	
|	Cd	114	
L>	In	115	97.670
⌈	207.977	208	
|	Pb	207	
|	Pb	206	
L>	Tm	169	98.725

Sample ID: CCV 14
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 18:38:47
Method File: C:\elandata\Method\000-CleanHarbor.mth
Dataset File: C:\elandata\Dataset\101215b1\CCV 14.086
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 7
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	4598.408473	0.988	1540664.964	ug/L	45728.053
|	52	Cr	95.790627	0.895	1057141.299	ug/L	34669.526
|	55	Mn	96.576371	1.147	1634371.231	ug/L	2334.428
|	60	Ni	95.581399	0.315	257241.669	ug/L	283.503
|	75	As	97.115044	1.114	271497.497	ug/L	16897.890
⌊>	72	Ge-1			1283887.330	ug/L	1283862.583
⌈	111	Cd	96.151993	0.446	204278.151	ug/L	49.951
⌊>	115	In-1			1030027.968	ug/L	1066853.750
⌈	208	Pb	97.479888	1.043	2423347.828	ug/L	1810.102
⌊>	169	Tm-1			708451.906	ug/L	728122.165
⌈	50	Cr	108.835559	1.777	24318.125	ug/L	-927.162
|	53	Cr	-47.677853	2.895	75215.742	ug/L	134759.291
|	61	Ni	87.777764	2.245	5497.307	ug/L	1658.939
⌊>	72	Ge			1283887.330	ug/L	1283862.583
⌈	108	Cd	95.651560	1.188	14081.899	ug/L	7.655
|	114	Cd	96.867305	1.371	482949.052	ug/L	124.770
⌊>	115	In			1030027.968	ug/L	1066853.750
⌈	208	207.977	97.872183	1.064	1260384.598	ug/L	967.407
|	207	Pb	97.319965	1.084	506055.488	ug/L	380.345
|	206	Pb	96.857658	1.048	656907.742	ug/L	462.350
⌊>	169	Tm			708451.906	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Cr	52	
|	Mn	55	
|	Ni	60	
|	As	75	
⌊>	Ge-1	72	100.002
⌈	Cd	111	
⌊>	In-1	115	96.548
⌈	Pb	208	
⌊>	Tm-1	169	97.298
⌈	Cr	50	
|	Cr	53	
|	Ni	61	

L>	Ge	72	100.002
⌈	Cd	108	
⌊	Cd	114	
L>	In	115	96.548
⌈	207.977	208	
⌊	Pb	207	
⌊	Pb	206	
L>	Tm	169	97.298

Sample ID: CCB 14
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 18:42:13
Method File: C:\elandata\Method\000-CleanHarbor.mth
Dataset File: C:\elandata\Dataset\101215b1\CCB 14.087
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 8
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	-25.475192	11.489	37396.984	ug/L	45728.053
|	52	Cr	-0.894463	9.115	25089.086	ug/L	34669.526
|	55	Mn	0.138323	63.804	4674.507	ug/L	2334.428
|	60	Ni	0.109143	55.640	577.076	ug/L	283.503
|	75	As	0.249396	86.390	17523.888	ug/L	16897.890
⌊>	72	Ge-1			1281995.394	ug/L	1283862.583
⌈	111	Cd	0.135951	60.933	339.892	ug/L	49.951
⌊>	115	In-1			1036989.910	ug/L	1066853.750
⌈	208	Pb	0.173328	36.122	6089.196	ug/L	1810.102
⌊>	169	Tm-1			711435.118	ug/L	728122.165
⌈	50	Cr	3.737533	2.322	-59.868	ug/L	-927.162
|	53	Cr	-90.141690	0.054	22184.084	ug/L	134759.291
|	61	Ni	-6.391548	25.942	1377.752	ug/L	1658.939
⌊>	72	Ge			1281995.394	ug/L	1283862.583
⌈	108	Cd	0.131827	59.256	26.989	ug/L	7.655
|	114	Cd	0.121314	58.779	731.194	ug/L	124.770
⌊>	115	In			1036989.910	ug/L	1066853.750
⌈	208	207.977	0.177673	35.124	3239.524	ug/L	967.407
|	207	Pb	0.169134	36.963	1253.462	ug/L	380.345
|	206	Pb	0.168293	37.484	1596.210	ug/L	462.350
⌊>	169	Tm			711435.118	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Cr	52	
|	Mn	55	
|	Ni	60	
|	As	75	
⌊>	Ge-1	72	99.855
⌈	Cd	111	
⌊>	In-1	115	97.201
⌈	Pb	208	
⌊>	Tm-1	169	97.708
⌈	Cr	50	
|	Cr	53	
|	Ni	61	

L>	Ge	72	99.855
⌈	Cd	108	
|	Cd	114	
L>	In	115	97.201
⌈	207.977	208	
|	Pb	207	
|	Pb	206	
L>	Tm	169	97.708

Sample ID: MCDVGB

Sample Description: G0L150000-267 BLK
Batch ID: 349267
Sample Date/Time: Wednesday, December 15, 2010 18:45:34
Method File: C:\elandata\Method\000-CleanHarbor.mth
Dataset File: C:\elandata\Dataset\101215b1\MCDVGB.088
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 24
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	59.630841	4.320	66019.725	ug/L	45728.053
|	52	Cr	-1.045524	2.779	23834.552	ug/L	34669.526
|	55	Mn	0.355219	3.714	8456.622	ug/L	2334.428
|	60	Ni	0.057927	46.424	445.985	ug/L	283.503
|	75	As	0.036424	233.663	17228.675	ug/L	16897.890
⌊>	72	Ge-1			1301816.298	ug/L	1283862.583
⌈	111	Cd	0.008508	266.671	69.933	ug/L	49.951
⌊>	115	In-1			1077224.784	ug/L	1066853.750
⌈	208	Pb	0.149309	18.997	5681.681	ug/L	1810.102
⌊>	169	Tm-1			735053.404	ug/L	728122.165
⌈	50	Cr	4.388753	3.323	92.599	ug/L	-927.162
|	53	Cr	-98.006177	0.336	12574.070	ug/L	134759.291
|	61	Ni	-4.467357	42.245	1483.151	ug/L	1658.939
⌊>	72	Ge			1301816.298	ug/L	1283862.583
⌈	108	Cd	-0.010058	291.932	6.235	ug/L	7.655
|	114	Cd	0.003978	616.059	148.176	ug/L	124.770
⌊>	115	In			1077224.784	ug/L	1066853.750
⌈	208	207.977	0.154089	20.129	3037.402	ug/L	967.407
|	207	Pb	0.160511	16.842	1250.458	ug/L	380.345
|	206	Pb	0.131643	19.106	1393.821	ug/L	462.350
⌊>	169	Tm			735053.404	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Cr	52	
|	Mn	55	
|	Ni	60	
|	As	75	
⌊>	Ge-1	72	101.398
⌈	Cd	111	
⌊>	In-1	115	100.972
⌈	Pb	208	
⌊>	Tm-1	169	100.952
⌈	Cr	50	
|	Cr	53	
|	Ni	61	

L>	Ge	72	101.398
⌈	Cd	108	
|	Cd	114	
L>	In	115	100.972
⌈	207.977	208	
|	Pb	207	
|	Pb	206	
L>	Tm	169	100.952

Sample ID: MCDVGC
Sample Description: G0L150000-267 LCS
Batch ID: 349267
Sample Date/Time: Wednesday, December 15, 2010 18:48:52
Method File: C:\elandata\Method\000-CleanHarbor.mth
Dataset File: C:\elandata\Dataset\101215b1\MCDVGC.089
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 109
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	1041.149428	0.583	386540.668	ug/L	45728.053
|	52	Cr	181.931907	1.776	1988470.704	ug/L	34669.526
|	55	Mn	188.237273	1.399	3202617.807	ug/L	2334.428
|	60	Ni	188.873622	1.244	511085.218	ug/L	283.503
|	75	As	183.082265	2.039	499835.564	ug/L	16897.890
⌊>	72	Ge-1			1291668.858	ug/L	1283862.583
⌈	111	Cd	181.457097	1.554	399533.107	ug/L	49.951
⌊>	115	In-1			1067697.969	ug/L	1066853.750
⌈	208	Pb	187.299644	2.046	4813687.109	ug/L	1810.102
⌊>	169	Tm-1			732794.556	ug/L	728122.165
⌈	50	Cr	184.663154	1.086	42170.679	ug/L	-927.162
|	53	Cr	-29.123859	3.998	98981.913	ug/L	134759.291
|	61	Ni	181.730389	0.856	9665.513	ug/L	1658.939
⌊>	72	Ge			1291668.858	ug/L	1283862.583
⌈	108	Cd	175.417943	2.100	26758.336	ug/L	7.655
|	114	Cd	181.975241	1.566	940264.932	ug/L	124.770
⌊>	115	In			1067697.969	ug/L	1066853.750
⌈	208	207.977	190.250112	2.285	2532726.061	ug/L	967.407
|	207	Pb	205.999159	1.582	1107423.583	ug/L	380.345
|	206	Pb	167.361313	2.043	1173537.465	ug/L	462.350
⌊>	169	Tm			732794.556	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Cr	52	
|	Mn	55	
|	Ni	60	
|	As	75	
⌊>	Ge-1	72	100.608
⌈	Cd	111	
⌊>	In-1	115	100.079
⌈	Pb	208	
⌊>	Tm-1	169	100.642
⌈	Cr	50	
|	Cr	53	
|	Ni	61	

⌊>	Ge	72	100.608
⌈	Cd	108	
|	Cd	114	
⌊>	In	115	100.079
⌈	207.977	208	
|	Pb	207	
|	Pb	206	
⌊>	Tm	169	100.642

Sample ID: MCDVGL
Sample Description: G0L150000-267 LCSD
Batch ID: 349267
Sample Date/Time: Wednesday, December 15, 2010 18:52:08
Method File: C:\elandata\Method\000-CleanHarbor.mth
Dataset File: C:\elandata\Dataset\101215b1\MCDVGL.090
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 110
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	1045.623514	1.161	375143.287	ug/L	45728.053
|	52	Cr	181.669096	0.790	1919997.473	ug/L	34669.526
|	55	Mn	188.348217	0.229	3098539.633	ug/L	2334.428
|	60	Ni	188.010313	0.722	491915.833	ug/L	283.503
|	75	As	184.844075	0.614	487843.918	ug/L	16897.890
⌊>	72	Ge-1			1248797.187	ug/L	1283862.583
⌈	111	Cd	182.448433	0.560	390031.262	ug/L	49.951
⌊>	115	In-1			1036569.201	ug/L	1066853.750
⌈	208	Pb	187.589430	1.788	4749849.589	ug/L	1810.102
⌊>	169	Tm-1			721854.806	ug/L	728122.165
⌈	50	Cr	185.019030	1.525	40849.109	ug/L	-927.162
|	53	Cr	-29.574942	4.028	95164.207	ug/L	134759.291
|	61	Ni	183.028198	1.937	9400.069	ug/L	1658.939
⌊>	72	Ge			1248797.187	ug/L	1283862.583
⌈	108	Cd	178.475874	1.663	26432.712	ug/L	7.655
|	114	Cd	184.131698	1.095	923713.288	ug/L	124.770
⌊>	115	In			1036569.201	ug/L	1066853.750
⌈	208	207.977	190.901833	1.628	2503942.842	ug/L	967.407
|	207	Pb	205.489588	2.115	1088259.783	ug/L	380.345
|	206	Pb	167.576749	1.839	1157646.964	ug/L	462.350
⌊>	169	Tm			721854.806	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Cr	52	
|	Mn	55	
|	Ni	60	
|	As	75	
⌊>	Ge-1	72	97.269
⌈	Cd	111	
⌊>	In-1	115	97.161
⌈	Pb	208	
⌊>	Tm-1	169	99.139
⌈	Cr	50	
|	Cr	53	
|	Ni	61	

└>	Ge	72	97.269
┌	Cd	108	
|	Cd	114	
└>	In	115	97.161
┌	207.977	208	
|	Pb	207	
|	Pb	206	
└>	Tm	169	99.139

Sample ID: MA8C9
Sample Description: G0L110441-1
Batch ID: 349267
Sample Date/Time: Wednesday, December 15, 2010 18:55:23
Method File: C:\elandata\Method\000-CleanHarbor.mth
Dataset File: C:\elandata\Dataset\101215b1\MA8C9.091
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 64
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌜	44	Ca	5970.560326	0.293	1957482.306	ug/L	45728.053
|	52	Cr	2.292076	10.093	58265.871	ug/L	34669.526
|	55	Mn	2516.793697	0.727	41908098.672	ug/L	2334.428
|	60	Ni	4.487231	4.577	12165.720	ug/L	283.503
|	75	As	1.583160	8.811	20737.412	ug/L	16897.890
⌞>	72	Ge-1			1264893.607	ug/L	1283862.583
⌜	111	Cd	2.029369	13.425	4443.211	ug/L	49.951
⌞>	115	In-1			1049537.007	ug/L	1066853.750
⌜	208	Pb	5.892024	2.501	150875.439	ug/L	1810.102
⌞>	169	Tm-1			721455.164	ug/L	728122.165
⌜	50	Cr	10.970999	8.778	1593.169	ug/L	-927.162
|	53	Cr	-98.252948	0.258	11910.811	ug/L	134759.291
|	61	Ni	-0.317101	500.321	1620.578	ug/L	1658.939
⌞>	72	Ge			1264893.607	ug/L	1283862.583
⌜	108	Cd	3.267726	2.635	497.459	ug/L	7.655
|	114	Cd	1.951476	10.208	10037.281	ug/L	124.770
⌞>	115	In			1049537.007	ug/L	1066853.750
⌜	208	207.977	6.112423	2.439	81072.452	ug/L	967.407
|	207	Pb	6.140803	2.710	32877.101	ug/L	380.345
|	206	Pb	5.282827	2.503	36925.886	ug/L	462.350
⌞>	169	Tm			721455.164	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌜	Ca	44	
|	Cr	52	
|	Mn	55	
|	Ni	60	
|	As	75	
⌞>	Ge-1	72	98.523
⌜	Cd	111	
⌞>	In-1	115	98.377
⌜	Pb	208	
⌞>	Tm-1	169	99.084
⌜	Cr	50	
|	Cr	53	
|	Ni	61	

L>	Ge	72	98.523
⌈	Cd	108	
|	Cd	114	
L>	In	115	98.377
⌈	207.977	208	
⌊	Pb	207	
|	Pb	206	
L>	Tm	169	99.084

Sample ID: MA8C9P5
Sample Description: G0L110441-1 5X
Batch ID: 349267
Sample Date/Time: Wednesday, December 15, 2010 18:58:37
Method File: C:\elandata\Method\000-CleanHarbor.mth
Dataset File: C:\elandata\Dataset\101215b1\MA8C9P5.092
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 65
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	1240.065578	0.701	448783.574	ug/L	45728.053
|	52	Cr	-0.505455	12.151	29261.462	ug/L	34669.526
|	55	Mn	494.509778	0.392	8357374.028	ug/L	2334.428
|	60	Ni	0.851555	2.848	2572.419	ug/L	283.503
|	75	As	0.195897	76.553	17404.760	ug/L	16897.890
⌊>	72	Ge-1			1283492.001	ug/L	1283862.583
⌈	111	Cd	0.325453	3.664	751.304	ug/L	49.951
⌊>	115	In-1			1046429.610	ug/L	1066853.750
⌈	208	Pb	1.141038	0.309	30629.532	ug/L	1810.102
⌊>	169	Tm-1			720689.086	ug/L	728122.165
⌈	50	Cr	5.268631	5.355	294.645	ug/L	-927.162
|	53	Cr	-94.183999	0.222	17162.895	ug/L	134759.291
|	61	Ni	-5.707161	19.316	1408.770	ug/L	1658.939
⌊>	72	Ge			1283492.001	ug/L	1283862.583
⌈	108	Cd	0.509976	11.563	83.733	ug/L	7.655
|	114	Cd	0.310080	1.916	1692.610	ug/L	124.770
⌊>	115	In			1046429.610	ug/L	1066853.750
⌈	208	207.977	1.185598	0.625	16478.976	ug/L	967.407
|	207	Pb	1.189268	1.258	6663.487	ug/L	380.345
|	206	Pb	1.019459	0.971	7487.069	ug/L	462.350
⌊>	169	Tm			720689.086	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Cr	52	
|	Mn	55	
|	Ni	60	
|	As	75	
⌊>	Ge-1	72	99.971
⌈	Cd	111	
⌊>	In-1	115	98.086
⌈	Pb	208	
⌊>	Tm-1	169	98.979
⌈	Cr	50	
|	Cr	53	
|	Ni	61	

|>	Ge	72	99.971
⌈	Cd	108	
|	Cd	114	
|>	In	115	98.086
⌈	207.977	208	
|	Pb	207	
|	Pb	206	
|>	Tm	169	98.979

Sample ID: MA8C9Z
Sample Description: G0L110441-1 PS
Batch ID: 349267
Sample Date/Time: Wednesday, December 15, 2010 19:01:51
Method File: C:\elandata\Method\000-CleanHarbor.mth
Dataset File: C:\elandata\Dataset\101215b1\MA8C9Z.093
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 66
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	44	Ca	6808.091991	1.324	2220363.773	ug/L	45728.053
	52	Cr	183.304642	1.074	1957147.843	ug/L	34669.526
	55	Mn	2646.129660	0.603	43955664.352	ug/L	2334.428
	60	Ni	189.567495	0.868	501171.727	ug/L	283.503
	75	As	185.762694	0.341	495297.765	ug/L	16897.890
>	72	Ge-1			1261838.089	ug/L	1283862.583
	111	Cd	185.317532	0.337	397244.806	ug/L	49.951
>	115	In-1			1039360.789	ug/L	1066853.750
	208	Pb	193.245676	0.377	4852611.830	ug/L	1810.102
>	169	Tm-1			715789.231	ug/L	728122.165
	50	Cr	191.599615	2.327	42772.575	ug/L	-927.162
	53	Cr	-28.819353	4.337	97080.644	ug/L	134759.291
	61	Ni	184.802761	2.228	9574.799	ug/L	1658.939
>	72	Ge			1261838.089	ug/L	1283862.583
	108	Cd	181.644796	0.591	26977.585	ug/L	7.655
	114	Cd	185.235211	0.305	931836.530	ug/L	124.770
>	115	In			1039360.789	ug/L	1066853.750
	208	207.977	196.298371	0.267	2553388.259	ug/L	967.407
	207	Pb	211.649204	0.513	1111645.649	ug/L	380.345
	206	Pb	173.340177	0.565	1187577.922	ug/L	462.350
>	169	Tm			715789.231	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Ca	44	
	Cr	52	
	Mn	55	
	Ni	60	
	As	75	
>	Ge-1	72	98.285
	Cd	111	
>	In-1	115	97.423
	Pb	208	
>	Tm-1	169	98.306
	Cr	50	
	Cr	53	
	Ni	61	

└>	Ge	72	98.285
┌	Cd	108	
|	Cd	114	
└>	In	115	97.423
┌	207.977	208	
|	Pb	207	
|	Pb	206	
└>	Tm	169	98.306

Sample ID: MA8DH
Sample Description: G0L110441-4
Batch ID: 349267
Sample Date/Time: Wednesday, December 15, 2010 19:05:04
Method File: C:\elandata\Method\000-CleanHarbor.mth
Dataset File: C:\elandata\Dataset\101215b1\MA8DH.094
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 67
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	1604.729910	1.423	568857.530	ug/L	45728.053
|	52	Cr	1.517621	21.730	50998.536	ug/L	34669.526
|	55	Mn	154.366563	2.133	2617750.499	ug/L	2334.428
|	60	Ni	1.048828	25.718	3111.050	ug/L	283.503
|	75	As	0.507237	45.175	18273.604	ug/L	16897.890
⌊>	72	Ge-1			1287065.105	ug/L	1283862.583
⌈	111	Cd	0.358196	54.710	835.731	ug/L	49.951
⌊>	115	In-1			1062901.259	ug/L	1066853.750
⌈	208	Pb	2.742651	7.320	71395.381	ug/L	1810.102
⌊>	169	Tm-1			723585.074	ug/L	728122.165
⌈	50	Cr	6.915919	3.157	678.803	ug/L	-927.162
|	53	Cr	-98.691646	0.187	11570.722	ug/L	134759.291
|	61	Ni	-2.742647	100.124	1542.525	ug/L	1658.939
⌊>	72	Ge			1287065.105	ug/L	1283862.583
⌈	108	Cd	1.223514	28.299	193.469	ug/L	7.655
|	114	Cd	0.341570	63.016	1883.300	ug/L	124.770
⌊>	115	In			1062901.259	ug/L	1066853.750
⌈	208	207.977	2.819377	7.287	38021.298	ug/L	967.407
|	207	Pb	2.844222	7.894	15474.534	ug/L	380.345
|	206	Pb	2.519102	6.941	17899.550	ug/L	462.350
⌊>	169	Tm			723585.074	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Cr	52	
|	Mn	55	
|	Ni	60	
|	As	75	
⌊>	Ge-1	72	100.249
⌈	Cd	111	
⌊>	In-1	115	99.630
⌈	Pb	208	
⌊>	Tm-1	169	99.377
⌈	Cr	50	
|	Cr	53	
|	Ni	61	

|>	Ge	72	100.249
⌈	Cd	108	
|	Cd	114	
|>	In	115	99.630
⌈	207.977	208	
|	Pb	207	
|	Pb	206	
|>	Tm	169	99.377

Sample ID: MA8DL
Sample Description: G0L110441-7
Batch ID: 349267
Sample Date/Time: Wednesday, December 15, 2010 19:08:18
Method File: C:\elandata\Method\000-CleanHarbor.mth
Dataset File: C:\elandata\Dataset\101215b1\MA8DL.095
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 68
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌜	44	Ca	5414.582478	1.728	1806258.084	ug/L	45728.053
|	52	Cr	4.008854	0.668	77471.731	ug/L	34669.526
|	55	Mn	4516.061799	1.086	76332974.848	ug/L	2334.428
|	60	Ni	8.172270	1.341	22255.878	ug/L	283.503
|	75	As	1.323349	10.640	20368.280	ug/L	16897.890
⌞>	72	Ge-1			1284043.793	ug/L	1283862.583
⌜	111	Cd	1.569149	2.244	3488.980	ug/L	49.951
⌞>	115	In-1			1062997.175	ug/L	1066853.750
⌜	208	Pb	6.770908	0.817	175251.777	ug/L	1810.102
⌞>	169	Tm-1			730433.612	ug/L	728122.165
⌜	50	Cr	18.484680	7.438	3362.514	ug/L	-927.162
|	53	Cr	-97.817094	0.379	12633.708	ug/L	134759.291
|	61	Ni	6.112392	9.701	1926.483	ug/L	1658.939
⌞>	72	Ge			1284043.793	ug/L	1283862.583
⌜	108	Cd	3.216216	6.113	495.980	ug/L	7.655
|	114	Cd	1.438258	3.318	7521.594	ug/L	124.770
⌞>	115	In			1062997.175	ug/L	1066853.750
⌜	208	207.977	6.973463	0.940	93499.238	ug/L	967.407
|	207	Pb	7.135195	1.579	38610.124	ug/L	380.345
|	206	Pb	6.107037	0.385	43142.416	ug/L	462.350
⌞>	169	Tm			730433.612	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌜	Ca	44	
|	Cr	52	
|	Mn	55	
|	Ni	60	
|	As	75	
⌞>	Ge-1	72	100.014
⌜	Cd	111	
⌞>	In-1	115	99.639
⌜	Pb	208	
⌞>	Tm-1	169	100.317
⌜	Cr	50	
|	Cr	53	
|	Ni	61	

|>	Ge	72	100.014
⌈	Cd	108	
|	Cd	114	
|>	In	115	99.639
⌈	207.977	208	
|	Pb	207	
|	Pb	206	
|>	Tm	169	100.317

Sample ID: MA8DR
Sample Description: G0L110441-10
Batch ID: 349267
Sample Date/Time: Wednesday, December 15, 2010 19:11:33
Method File: C:\elandata\Method\000-CleanHarbor.mth
Dataset File: C:\elandata\Dataset\101215b1\MA8DR.096
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 69
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	3999.294685	1.698	1373548.566	ug/L	45728.053
|	52	Cr	2.548032	2.028	63136.323	ug/L	34669.526
|	55	Mn	678.500389	0.476	11704723.040	ug/L	2334.428
|	60	Ni	2.447425	0.724	7004.069	ug/L	283.503
|	75	As	0.747297	18.792	19242.961	ug/L	16897.890
⌊>	72	Ge-1			1310231.052	ug/L	1283862.583
⌈	111	Cd	0.478256	6.986	1110.697	ug/L	49.951
⌊>	115	In-1			1075436.518	ug/L	1066853.750
⌈	208	Pb	5.403349	1.250	140836.724	ug/L	1810.102
⌊>	169	Tm-1			733674.495	ug/L	728122.165
⌈	50	Cr	13.003778	13.109	2133.963	ug/L	-927.162
|	53	Cr	-97.827206	0.052	12880.062	ug/L	134759.291
|	61	Ni	-0.484358	380.040	1670.948	ug/L	1658.939
⌊>	72	Ge			1310231.052	ug/L	1283862.583
⌈	108	Cd	1.973307	15.256	311.055	ug/L	7.655
|	114	Cd	0.414514	1.922	2282.935	ug/L	124.770
⌊>	115	In			1075436.518	ug/L	1066853.750
⌈	208	207.977	5.563446	1.444	75117.092	ug/L	967.407
|	207	Pb	5.555451	0.703	30280.544	ug/L	380.345
|	206	Pb	4.982767	2.173	35439.089	ug/L	462.350
⌊>	169	Tm			733674.495	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Cr	52	
|	Mn	55	
|	Ni	60	
|	As	75	
⌊>	Ge-1	72	102.054
⌈	Cd	111	
⌊>	In-1	115	100.804
⌈	Pb	208	
⌊>	Tm-1	169	100.763
⌈	Cr	50	
|	Cr	53	
|	Ni	61	

⌊>	Ge	72	102.054
⌈	Cd	108	
|	Cd	114	
⌊>	In	115	100.804
⌈	207.977	208	
|	Pb	207	
|	Pb	206	
⌊>	Tm	169	100.763

Sample ID: CCV 15
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 19:14:56
Method File: C:\elandata\Method\000-CleanHarbor.mth
Dataset File: C:\elandata\Dataset\101215b1\CCV 15.097
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 7
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	4588.359647	0.136	1546890.190	ug/L	45728.053
|	52	Cr	95.965827	1.844	1065420.977	ug/L	34669.526
|	55	Mn	96.870199	0.487	1649517.001	ug/L	2334.428
|	60	Ni	95.548738	0.449	258728.509	ug/L	283.503
|	75	As	96.355927	1.316	271143.588	ug/L	16897.890
⌊>	72	Ge-1			1291717.597	ug/L	1283862.583
⌈	111	Cd	95.425644	0.496	202764.594	ug/L	49.951
⌊>	115	In-1			1030194.696	ug/L	1066853.750
⌈	208	Pb	97.758724	0.651	2438436.053	ug/L	1810.102
⌊>	169	Tm-1			710804.705	ug/L	728122.165
⌈	50	Cr	106.744232	0.822	23984.219	ug/L	-927.162
|	53	Cr	-49.973604	2.662	72792.080	ug/L	134759.291
|	61	Ni	90.026039	4.928	5632.650	ug/L	1658.939
⌊>	72	Ge			1291717.597	ug/L	1283862.583
⌈	108	Cd	95.750896	1.394	14098.391	ug/L	7.655
|	114	Cd	96.897332	1.398	483146.622	ug/L	124.770
⌊>	115	In			1030194.696	ug/L	1066853.750
⌈	208	207.977	98.307416	0.636	1270255.810	ug/L	967.407
|	207	Pb	97.574817	0.930	509069.452	ug/L	380.345
|	206	Pb	96.857935	0.619	659110.792	ug/L	462.350
⌊>	169	Tm			710804.705	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Cr	52	
|	Mn	55	
|	Ni	60	
|	As	75	
⌊>	Ge-1	72	100.612
⌈	Cd	111	
⌊>	In-1	115	96.564
⌈	Pb	208	
⌊>	Tm-1	169	97.622
⌈	Cr	50	
|	Cr	53	
|	Ni	61	

⌊>	Ge	72	100.612
⌈	Cd	108	
|	Cd	114	
⌊>	In	115	96.564
⌈	207.977	208	
|	Pb	207	
|	Pb	206	
⌊>	Tm	169	97.622

Sample ID: CCB 15
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, December 15, 2010 19:18:22
Method File: C:\elandata\Method\000-CleanHarbor.mth
Dataset File: C:\elandata\Dataset\101215b1\CCB 15.098
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 8
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	44	Ca	-28.871011	7.125	36086.726	ug/L	45728.053
|	52	Cr	-0.938293	5.654	24480.683	ug/L	34669.526
|	55	Mn	0.668255	120.412	13556.344	ug/L	2334.428
|	60	Ni	0.067917	51.014	462.992	ug/L	283.503
|	75	As	0.235775	33.665	17392.432	ug/L	16897.890
⌊>	72	Ge-1			1274835.495	ug/L	1283862.583
⌈	111	Cd	0.084034	35.835	227.049	ug/L	49.951
⌊>	115	In-1			1031182.086	ug/L	1066853.750
⌈	208	Pb	0.140147	15.548	5250.515	ug/L	1810.102
⌊>	169	Tm-1			708988.924	ug/L	728122.165
⌈	50	Cr	3.806049	3.225	-43.836	ug/L	-927.162
|	53	Cr	-91.188009	0.242	20762.073	ug/L	134759.291
|	61	Ni	-6.884153	23.852	1348.401	ug/L	1658.939
⌊>	72	Ge			1274835.495	ug/L	1283862.583
⌈	108	Cd	0.115715	46.809	24.445	ug/L	7.655
|	114	Cd	0.089156	35.039	565.556	ug/L	124.770
⌊>	115	In			1031182.086	ug/L	1066853.750
⌈	208	207.977	0.139290	17.420	2737.928	ug/L	967.407
|	207	Pb	0.139867	15.263	1098.429	ug/L	380.345
|	206	Pb	0.141990	12.680	1414.158	ug/L	462.350
⌊>	169	Tm			708988.924	ug/L	728122.165

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Ca	44	
|	Cr	52	
|	Mn	55	
|	Ni	60	
|	As	75	
⌊>	Ge-1	72	99.297
⌈	Cd	111	
⌊>	In-1	115	96.656
⌈	Pb	208	
⌊>	Tm-1	169	97.372
⌈	Cr	50	
|	Cr	53	
|	Ni	61	

⌊>	Ge	72	99.297
⌈	Cd	108	
⌊	Cd	114	
⌊>	In	115	96.656
⌈	207.977	208	
⌊	Pb	207	
⌊	Pb	206	
⌊>	Tm	169	97.372

TAL West Sac

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 12/16/10 07:18:32

File ID: 101215B1 **Analyst: hargraves**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	Rinse 2X				2.0	12/15/10 12:17		☐
2	Blank				1.0	12/15/10 12:22		☐
3	Standard1				1.0	12/15/10 12:27		☐
4	ICV				1.0	12/15/10 12:31		☐
5	ICB				1.0	12/15/10 12:35		☐
6	LLSTD1				1.0	12/15/10 12:39		☐
7	LLSTD2				1.0	12/15/10 12:44		☐
8	ICSA				1.0	12/15/10 12:48		☐
9	ICSAB				1.0	12/15/10 12:52		☐
10	Rinse				1.0	12/15/10 14:07		☐
11	CCV 1				1.0	12/15/10 14:12		☐
12	CCB 1				1.0	12/15/10 14:17		☐
15	CCV 2				1.0	12/15/10 14:23		☐
16	CCB 2				1.0	12/15/10 14:27		☐
17	MCDVDB	G0L150000	0349266	2A	1.0	12/15/10 14:32		☐
18	MCCCRB	G0L140000	0348334	2A	1.0	12/15/10 14:36		☐
19	MCA8DB	G0L140000	0348318	2A	1.0	12/15/10 14:40		☐
20	MCA8DC	G0L140000	0348318	2A	1.0	12/15/10 14:44		☐
21	MCA8DL	G0L140000	0348318	2A	1.0	12/15/10 14:48		☐
22	MA0J3	G0L070462-3	0348318	2A	1.0	12/15/10 14:53		☐
23	MA0J3P5	G0L070462	0348318		5.0	12/15/10 14:57		☐
24	MA0J3Z	G0L070462-3	0348318		1.0	12/15/10 15:01		☐
25	MA0KG	G0L070462-4	0348318	2A	1.0	12/15/10 15:05		☐
26	CCV 3				1.0	12/15/10 15:10		☐
27	CCB 3				1.0	12/15/10 15:14		☐
28	CCV 4				1.0	12/15/10 15:18		☐
29	CCB 4				1.0	12/15/10 15:22		☐
30	CCV 5				1.0	12/15/10 15:25		☐
31	CCB 5				1.0	12/15/10 15:29		☐
32	MCCCRC	G0L140000	0348334	2A	1.0	12/15/10 15:32		☐
33	MCCCRL	G0L140000	0348334	2A	1.0	12/15/10 15:35		☐
34	MCAJ6	G0L140448-1	0348334	2A	1.0	12/15/10 15:38		☐
35	MCAJ6P5	G0L140448	0348334		5.0	12/15/10 15:42		☐
36	MCAJ6X	G0L140448-1	0348334	2A	1.0	12/15/10 15:45		☐
37	MCAJ6Z	G0L140448-1	0348334		1.0	12/15/10 15:48		☐
38	MCAJ7	G0L140448-2	0348334	2A	1.0	12/15/10 15:51		☐
39	MCAJ8	G0L140448-3	0348334	2A	1.0	12/15/10 15:55		☐
40	MCAJ9	G0L140448-4	0348334	2A	1.0	12/15/10 15:58		☐
41	MCAKA	G0L140448-5	0348334	2A	1.0	12/15/10 16:01		☐
42	CCV 6				1.0	12/15/10 16:05		☐
43	CCB 6				1.0	12/15/10 16:08		☐
44	CCV 7				1.0	12/15/10 16:12		☐
45	CCB 7				1.0	12/15/10 16:15		☐
46	MA87H	G0L130422-1	0348334	2A	1.0	12/15/10 16:18		☐
47	MA87L	G0L130422-2	0348334	2A	1.0	12/15/10 16:22		☐
48	MA87R	G0L130422-3	0348334	2A	1.0	12/15/10 16:25		☐

TAL West Sac

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 12/16/10 07:18:32

File ID: 101215B1 **Analyst: hargraves**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
49	MA87V	G0L130422-4	0348334	2A	1.0	12/15/10 16:28		☐
50	MA871	G0L130422-5	0348334	2A	1.0	12/15/10 16:32		☐
51	MCAJW	G0L140445-1	0348334	2A	1.0	12/15/10 16:35		☐
52	MCAJX	G0L140445-2	0348334	2A	1.0	12/15/10 16:38		☐
53	MCAJ0	G0L140445-3	0348334	2A	1.0	12/15/10 16:42		☐
54	MCAJ1	G0L140445-4	0348334	2A	1.0	12/15/10 16:45		☐
55	MCAJ2	G0L140445-5	0348334	2A	1.0	12/15/10 16:48		☐
56	CCV 8				1.0	12/15/10 16:51		☐
57	CCB 8				1.0	12/15/10 16:55		☐
58	CCV 9				1.0	12/15/10 16:58		☐
59	CCB 9				1.0	12/15/10 17:02		☐
60	MCDVDC	G0L150000	0349266	2A	1.0	12/15/10 17:05		☐
61	MCDVDL	G0L150000	0349266	2A	1.0	12/15/10 17:08		☐
62	MCDFR	G0L150435-1	0349266	2A	1.0	12/15/10 17:11		☐
63	MCDFRP5	G0L150435	0349266		5.0	12/15/10 17:15		☐
64	MCDFRX	G0L150435-1	0349266	2A	1.0	12/15/10 17:18		☐
65	MCDFRZ	G0L150435-1	0349266		1.0	12/15/10 17:21		☐
66	MCDF1	G0L150435-2	0349266	2A	1.0	12/15/10 17:25		☐
67	MCDF5	G0L150435-3	0349266	2A	1.0	12/15/10 17:28		☐
68	MCDF7	G0L150435-4	0349266	2A	1.0	12/15/10 17:31		☐
69	MCDF9	G0L150435-5	0349266	2A	1.0	12/15/10 17:34		☐
70	CCV 10				1.0	12/15/10 17:38		☐
71	CCB 10				1.0	12/15/10 17:41		☐
72	CCV 11				1.0	12/15/10 17:45		☐
73	CCB 11				1.0	12/15/10 17:48		☐
74	CCV 12				1.0	12/15/10 17:51		☐
75	CCB 12				1.0	12/15/10 17:55		☐
76	MCA9KB	G0L140000	0348322	2A	1.0	12/15/10 17:58		☐
77	MCA9KC	G0L140000	0348322	2A	1.0	12/15/10 18:02		☐
78	MCA9KL	G0L140000	0348322	2A	1.0	12/15/10 18:05		☐
79	MAT92	G0L030535-1	0348322	2A	1.0	12/15/10 18:08		☐
80	MAT92P5	G0L030535	0348322		5.0	12/15/10 18:11		☐
81	MAT92Z	G0L030535-1	0348322		1.0	12/15/10 18:15		☐
82	MAVAA	G0L030535-2	0348322	2A	1.0	12/15/10 18:18		☐
83	MAVAC	G0L030535-3	0348322	2A	1.0	12/15/10 18:21		☐
84	MAVAE	G0L030535-4	0348322	2A	1.0	12/15/10 18:25		☐
85	MAVAM	G0L030535-5	0348322	2A	1.0	12/15/10 18:28		☐
86	CCV 13				1.0	12/15/10 18:31		☐
87	CCB 13				1.0	12/15/10 18:35		☐
88	CCV 14				1.0	12/15/10 18:38		☐
89	CCB 14				1.0	12/15/10 18:42		☐
90	MCDVGB	G0L150000	0349267	2A	1.0	12/15/10 18:45		☐
91	MCDVGC	G0L150000	0349267	2A	1.0	12/15/10 18:48		☐
92	MCDVGL	G0L150000	0349267	2A	1.0	12/15/10 18:52		☐
93	MA8C9	G0L110441-1	0349267	2A	1.0	12/15/10 18:55		☐
94	MA8C9P5	G0L110441	0349267		5.0	12/15/10 18:58		☐

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 12/16/10 07:18:32

File ID: 101215B1 **Analyst:** hargraves

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
95	MA8C9Z	G0L110441-1	0349267		1.0	12/15/10 19:01		☐
96	MA8DH	G0L110441-4	0349267	2A	1.0	12/15/10 19:05		☐
97	MA8DL	G0L110441-7	0349267	2A	1.0	12/15/10 19:08		☐
98	MA8DR	G0L110441-10	0349267	2A	1.0	12/15/10 19:11		☐
99	CCV 15				1.0	12/15/10 19:14		☐
100	CCB 15				1.0	12/15/10 19:18		☐

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) | M01 (M01) | Reported: 12/16/10 07:18:32

File ID: 101215B1 **Analyst:** hargraves

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
1	Rinse 2X	12/15/10 12:17	98.7	100.0	100.5	0.0	☐
2	Blank	12/15/10 12:22	100.0	100.0	100.0	100.0	☑
3	Standard1	12/15/10 12:27	98.2	95.9	102.4	97.0	☑
4	ICV	12/15/10 12:31	98.0	97.6	104.5	98.4	☑
5	ICB	12/15/10 12:35	98.1	97.8	103.8	98.7	☑
6	LLSTD1	12/15/10 12:39	99.5	98.3	100.6	99.2	☑
7	LLSTD2	12/15/10 12:44	99.5	98.2	99.0	97.9	☑
8	ICSA	12/15/10 12:48	89.7	87.3	92.8	83.2	☑
9	ICSAB	12/15/10 12:52	90.8	89.0	92.8	83.9	☑
10	Rinse	12/15/10 14:07	106.0	101.6	128.5	100.2	☑
11	CCV 1	12/15/10 14:12	102.5	96.2	126.0	96.4	☑
12	CCB 1	12/15/10 14:17	102.0	99.2	124.5	98.6	☑
15	CCV 2	12/15/10 14:23	98.4	95.9	100.2	97.5	☑
16	CCB 2	12/15/10 14:27	99.4	97.3	98.1	99.0	☑
17	MCDVDB	12/15/10 14:32	100.1	100.7	95.7	100.9	☑
18	MCCCRB	12/15/10 14:36	101.9	101.8	98.0	103.2	☑
19	MCA8DB	12/15/10 14:40	102.2	102.4	97.6	103.2	☑
20	MCA8DC	12/15/10 14:44	97.6	98.8	98.9	100.2	☑
21	MCA8DL	12/15/10 14:48	96.3	98.1	100.2	99.6	☑
22	MA0J3	12/15/10 14:53	98.3	98.3	99.1	99.8	☑
23	MA0J3P5	12/15/10 14:57	99.2	97.4	100.2	98.8	☐
24	MA0J3Z	12/15/10 15:01	95.6	96.3	101.5	98.2	☑
25	MA0KG	12/15/10 15:05	96.4	96.6	100.2	98.8	☑
26	CCV 3	12/15/10 15:10	97.5	95.3	104.3	96.8	☑
27	CCB 3	12/15/10 15:14	98.1	96.1	102.6	98.0	☑
28	CCV 4	12/15/10 15:18	95.7	96.1	105.8	98.4	☑
29	CCB 4	12/15/10 15:22	96.5	98.1	107.3	100.2	☑
30	CCV 5	12/15/10 15:25	97.0	96.4	107.3	99.5	☑
31	CCB 5	12/15/10 15:29	97.5	98.7	105.9	101.3	☑
32	MCCCRC	12/15/10 15:32	95.3	98.2	105.6	100.7	☑
33	MCCCRL	12/15/10 15:35	93.4	98.1	106.9	99.8	☑
34	MCAJ6	12/15/10 15:38	96.4	99.6	106.3	102.0	☑
35	MCAJ6P5	12/15/10 15:42	96.0	96.9	106.5	100.0	☐
36	MCAJ6X	12/15/10 15:45	98.4	101.6	109.3	103.4	☑
37	MCAJ6Z	12/15/10 15:48	94.5	98.0	109.1	100.4	☑
38	MCAJ7	12/15/10 15:51	95.8	99.0	106.5	100.5	☑
39	MCAJ8	12/15/10 15:55	99.4	101.7	109.6	103.3	☑
40	MCAJ9	12/15/10 15:58	99.0	100.6	105.1	102.6	☑
41	MCAKA	12/15/10 16:01	99.1	101.2	106.1	102.9	☑
42	CCV 6	12/15/10 16:05	99.4	98.8	109.4	100.6	☑
43	CCB 6	12/15/10 16:08	99.5	100.5	108.3	102.8	☑
44	CCV 7	12/15/10 16:12	99.2	99.2	109.0	101.7	☑
45	CCB 7	12/15/10 16:15	99.4	100.2	106.4	102.3	☑
46	MA87H	12/15/10 16:18	100.6	102.7	105.4	104.7	☑
47	MA87L	12/15/10 16:22	103.5	103.8	105.8	105.0	☑
48	MA87R	12/15/10 16:25	102.3	102.1	103.8	103.5	☑

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) | M01 (M01) | Reported: 12/16/10 07:18:32

File ID: 101215B1 **Analyst:** hargraves

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
49	MA87V	12/15/10 16:28	103.4	102.4	105.2	103.4	☑
50	MA871	12/15/10 16:32	102.9	103.2	105.2	105.6	☑
51	MCAJW	12/15/10 16:35	105.6	105.4	107.6	107.8	☑
52	MCAJX	12/15/10 16:38	106.1	105.9	109.3	107.8	☑
53	MCAJ0	12/15/10 16:42	105.9	105.3	108.7	105.8	☑
54	MCAJ1	12/15/10 16:45	104.1	103.9	109.5	105.0	☑
55	MCAJ2	12/15/10 16:48	105.2	106.3	110.3	108.0	☑
56	CCV 8	12/15/10 16:51	102.3	99.0	111.6	101.7	☑
57	CCB 8	12/15/10 16:55	101.6	101.5	113.7	103.8	☑
58	CCV 9	12/15/10 16:58	100.9	98.8	112.5	101.7	☑
59	CCB 9	12/15/10 17:02	101.2	100.6	111.3	102.7	☑
60	MCDVDC	12/15/10 17:05	99.3	100.1	110.8	103.7	☑
61	MCDVDL	12/15/10 17:08	98.2	100.9	112.7	104.8	☑
62	MCDFR	12/15/10 17:11	99.4	102.2	110.0	104.5	☑
63	MCDFRP5	12/15/10 17:15	102.3	103.0	112.3	105.0	☐
64	MCDFRX	12/15/10 17:18	103.6	105.3	111.0	106.7	☑
65	MCDFRZ	12/15/10 17:21	100.6	100.2	109.4	102.3	☑
66	MCDF1	12/15/10 17:25	100.4	100.5	106.5	101.8	☑
67	MCDF5	12/15/10 17:28	103.7	102.2	108.1	103.5	☑
68	MCDF7	12/15/10 17:31	103.9	103.5	108.0	103.2	☑
69	MCDF9	12/15/10 17:34	105.1	103.3	109.1	104.2	☑
70	CCV 10	12/15/10 17:38	101.2	98.2	110.5	98.6	☑
71	CCB 10	12/15/10 17:41	101.3	99.1	111.2	101.5	☑
72	CCV 11	12/15/10 17:45	99.7	96.2		97.7	☑
73	CCB 11	12/15/10 17:48	99.3	98.5		99.3	☑
74	CCV 12	12/15/10 17:51	100.1	97.1		98.2	☑
75	CCB 12	12/15/10 17:55	99.4	98.3		99.0	☑
76	MCA9KB	12/15/10 17:58	102.1	101.3		102.8	☑
77	MCA9KC	12/15/10 18:02	99.6	100.0		102.0	☑
78	MCA9KL	12/15/10 18:05	98.3	98.8		100.6	☑
79	MAT92	12/15/10 18:08	99.2	99.6		100.8	☑
80	MAT92P5	12/15/10 18:11	100.8	99.7		99.9	☐
81	MAT92Z	12/15/10 18:15	99.6	99.2		100.1	☑
82	MAVAA	12/15/10 18:18	100.4	100.7		100.9	☑
83	MAVAC	12/15/10 18:21	102.6	101.9		101.9	☑
84	MAVAE	12/15/10 18:25	104.6	102.0		101.6	☑
85	MAVAM	12/15/10 18:28	105.0	103.4		101.7	☑
86	CCV 13	12/15/10 18:31	102.0	98.2		98.5	☑
87	CCB 13	12/15/10 18:35	101.1	97.7		98.7	☑
88	CCV 14	12/15/10 18:38	100.0	96.5		97.3	☑
89	CCB 14	12/15/10 18:42	99.9	97.2		97.7	☑
90	MCDVGB	12/15/10 18:45	101.4	101.0		101.0	☑
91	MCDVGC	12/15/10 18:48	100.6	100.1		100.6	☑
92	MCDVGL	12/15/10 18:52	97.3	97.2		99.1	☑
93	MA8C9	12/15/10 18:55	98.5	98.4		99.1	☑
94	MA8C9P5	12/15/10 18:58	100.0	98.1		99.0	☐

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 12/16/10 07:18:32

File ID: 101215B1 **Analyst: hargraves**

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
95	MA8C9Z	12/15/10 19:01	98.3	97.4		98.3	☑
96	MA8DH	12/15/10 19:05	100.2	99.6		99.4	☑
97	MA8DL	12/15/10 19:08	100.0	99.6		100.3	☑
98	MA8DR	12/15/10 19:11	102.1	100.8		100.8	☑
99	CCV 15	12/15/10 19:14	100.6	96.6		97.6	☑
100	CCB 15	12/15/10 19:18	99.3	96.7		97.4	☑

TAL West Sac

CALIBRATION CHECK SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Method: 6020 **Instrument: M01** **Batch: 101215B1**

Sample ID	Type	File - Sequence	Analyzed Date	Q
ICV	***ICV***	***101215B1, 4***	***12/15/2010 12:31:19***	☐
ICB	***ICB***	***101215B1, 5***	***12/15/2010 12:35:40***	☐
ICSA	***ICSA***	***101215B1, 8***	***12/15/2010 12:48:31***	☐
ICSAB	***ICSAB***	***101215B1, 9***	***12/15/2010 12:52:49***	☐
CCV 1	***CCV***	***101215B1, 11***	***12/15/2010 14:12:39***	☐
CCB 1	***CCB***	***101215B1, 12***	***12/15/2010 14:17:00***	☐
CCV 2	***CCV***	***101215B1, 15***	***12/15/2010 14:23:21***	☐
CCB 2	***CCB***	***101215B1, 16***	***12/15/2010 14:27:43***	☐
CCV 3	***CCV***	***101215B1, 26***	***12/15/2010 15:10:08***	☐
CCB 3	***CCB***	***101215B1, 27***	***12/15/2010 15:14:29***	☐
CCV 4	***CCV***	***101215B1, 28***	***12/15/2010 15:18:50***	☐
CCB 4	***CCB***	***101215B1, 29***	***12/15/2010 15:22:14***	☐
CCV 5	***CCV***	***101215B1, 30***	***12/15/2010 15:25:38***	☐
CCB 5	***CCB***	***101215B1, 31***	***12/15/2010 15:29:02***	☐
CCV 6	***CCV***	***101215B1, 42***	***12/15/2010 16:05:14***	☐
CCB 6	***CCB***	***101215B1, 43***	***12/15/2010 16:08:38***	☐
CCV 7	***CCV***	***101215B1, 44***	***12/15/2010 16:12:02***	☐
CCB 7	***CCB***	***101215B1, 45***	***12/15/2010 16:15:25***	☐
CCV 8	***CCV***	***101215B1, 56***	***12/15/2010 16:51:56***	☐
CCB 8	***CCB***	***101215B1, 57***	***12/15/2010 16:55:19***	☐
CCV 9	***CCV***	***101215B1, 58***	***12/15/2010 16:58:43***	☐
CCB 9	***CCB***	***101215B1, 59***	***12/15/2010 17:02:07***	☐
CCV 10	***CCV***	***101215B1, 70***	***12/15/2010 17:38:16***	☐
CCB 10	***CCB***	***101215B1, 71***	***12/15/2010 17:41:40***	☐
CCV 11	***CCV***	***101215B1, 72***	***12/15/2010 17:45:05***	☐
CCB 11	***CCB***	***101215B1, 73***	***12/15/2010 17:48:31***	☐
CCV 12	***CCV***	***101215B1, 74***	***12/15/2010 17:51:58***	☐
CCB 12	***CCB***	***101215B1, 75***	***12/15/2010 17:55:23***	☐
CCV 13	***CCV***	***101215B1, 86***	***12/15/2010 18:31:55***	☐
CCB 13	***CCB***	***101215B1, 87***	***12/15/2010 18:35:21***	☐
CCV 14	***CCV***	***101215B1, 88***	***12/15/2010 18:38:47***	☐
CCB 14	***CCB***	***101215B1, 89***	***12/15/2010 18:42:13***	☐
CCV 15	***CCV***	***101215B1, 99***	***12/15/2010 19:14:56***	☐
CCB 15	***CCB***	***101215B1, 100***	***12/15/2010 19:18:22***	☐

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **ICV (ICV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 4 Method 6020_
Acquired: 12/15/2010 12:31:19 M01
Calibrated: 12/15/2010 12:22:32 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	***Beryllium***	***9***	***17773***	***79.542***	***80.000***	***99.4***	
7429-90-5	***Aluminum***	***27***	***3926926***	***810.73***	***800.00***	***101***	
7440-62-2	***Vanadium***	***51***	***881351***	***81.930***	***80.000***	***102***	
7440-47-3	***Chromium***	***52***	***817068***	***80.138***	***80.000***	***100***	
7439-89-6	***Iron***	***57***	***275449***	***819.48***	***800.00***	***102***	
7439-96-5	***Manganese***	***55***	***1297570***	***81.554***	***80.000***	***102***	
7440-48-4	***Cobalt***	***59***	***975925***	***80.516***	***80.000***	***101***	
7440-02-0	***Nickel***	***60***	***205944***	***79.911***	***80.000***	***99.9***	
7440-50-8	***Copper***	***65***	***210639***	***79.579***	***80.000***	***99.5***	
7440-66-6	***Zinc***	***68***	***80834***	***80.577***	***80.000***	***101***	
7440-38-2	***Arsenic***	***75***	***215441***	***79.125***	***80.000***	***98.9***	
7782-49-2	***Selenium***	***82***	***20249***	***80.426***	***80.000***	***101***	
7440-22-4	***Silver***	***107***	***364480***	***39.757***	***40.000***	***99.4***	
7440-43-9	***Cadmium***	***111***	***169489***	***80.257***	***80.000***	***100***	
7440-36-0	***Antimony***	***121***	***281385***	***38.651***	***40.000***	***96.6***	
7440-39-3	***Barium***	***135***	***148515***	***78.572***	***80.000***	***98.2***	
7440-28-0	***Thallium***	***205***	***721519***	***40.740***	***40.000***	***102***	
7439-92-1	***Lead***	***208***	***2000331***	***80.729***	***80.000***	***101***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***266741***		☑
7440-56-4	***Germanium***	***72***	***1232746***		☑
7440-74-6	***Indium***	***115***	***1049039***		☑
7440-30-4	***Thulium***	***169***			☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **ICB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 5 Method 6020_
Acquired: 12/15/2010 12:35:40 M01
Calibrated: 12/15/2010 12:22:32 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	8	0.00040	1.0	0.078	0.0	
7429-90-5	Aluminum	27	13111	0.16090	50.0	2.1	0.0	
7440-62-2	Vanadium	51	-15037	0.22291	10.0	3.1	0.0	
7440-47-3	Chromium	52	32072	-0.01130	2.0	0.92	0.0	
7439-89-6	Iron	57	10233	-0.49423	50.0	17.0	0.0	
7439-96-5	Manganese	55	2428	0.00238	1.0	0.083	0.0	
7440-48-4	Cobalt	59	498	0.00436	1.0	0.057	0.0	
7440-02-0	Nickel	60	244	0.00059	2.0	0.098	0.0	
7440-50-8	Copper	65	186	0.01323				
7440-66-6	Zinc	68	983	0.01387	5.0	1.0	0.0	
7440-38-2	Arsenic	75	16113	-0.10606	2.0	0.50	0.0	
7782-49-2	Selenium	82	1526	-0.05173	2.0	1.7	0.0	
7440-22-4	Silver	107	170	0.00314	1.0	0.030	0.0	
7440-43-9	Cadmium	111	85	0.00824	1.0	0.074	0.0	
7440-36-0	Antimony	121	995	0.09185	2.0	0.036	0.0	
7440-39-3	Barium	135	207	0.00810	1.0	0.96	0.0	
7440-28-0	Thallium	205	3501	0.10812	1.0	0.34	0.0	
7439-92-1	Lead	208	2032	0.00676	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	264835		☑
7440-56-4	Germanium	72	1234564		☑
7440-74-6	Indium	115	1051105		☑
7440-30-4	Thulium	169			☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **ICSA** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 8 Method 6020_
Acquired: 12/15/2010 12:48:31 M01
Calibrated: 12/15/2010 12:22:32 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	11	0.02004		*	☑
7429-90-5	Aluminum	27	22836628	95610	100000	95.6	☑
7440-62-2	Vanadium	51	-18122	-0.21152		*	☑
7440-47-3	Chromium	52	39964	1.1739		*	☑
7439-89-6	Iron	57	29403746	99217	100000	99.2	☑
7439-96-5	Manganese	55	106350	7.1612		*	
7440-48-4	Cobalt	59	19658	1.7349		*	
7440-02-0	Nickel	60	6091	2.4899		*	
7440-50-8	Copper	65	-465	-0.24881		*	
7440-66-6	Zinc	68	5539	5.1242		*	
7440-38-2	Arsenic	75	16724	0.75596		*	☑
7782-49-2	Selenium	82	1437	0.14229		*	☑
7440-22-4	Silver	107	1541	0.17272		*	☑
7440-43-9	Cadmium	111	1833	0.93975		*	☑
7440-36-0	Antimony	121	1514	0.18799		*	☑
7440-39-3	Barium	135	4824	2.7552		*	
7440-28-0	Thallium	205	3974	0.17670		*	☑
7439-92-1	Lead	208	11897	0.49333		*	☑

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	236696		☑
7440-56-4	Germanium	72	1129078		☑
7440-74-6	Indium	115	938225		☑
7440-30-4	Thulium	169			☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **ICSAB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 9 Method 6020_
Acquired: 12/15/2010 12:52:49 M01
Calibrated: 12/15/2010 12:22:32 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	19492	98.222	100.00	98.2	☑
7429-90-5	Aluminum	27	19588525	93763	100100	93.7	☑
7440-62-2	Vanadium	51	981535	98.122	100.00	98.1	☑
7440-47-3	Chromium	52	952156	101.60	100.00	102	☑
7439-89-6	Iron	57	29368773	97926	100100	97.8	☑
7439-96-5	Manganese	55	1559970	105.83	100.00	106	☑
7440-48-4	Cobalt	59	1137508	101.26	100.00	101	☑
7440-02-0	Nickel	60	238140	99.717	100.00	99.7	☑
7440-50-8	Copper	65	226107	92.168	100.00	92.2	☑
7440-66-6	Zinc	68	90648	97.687	100.00	97.7	☑
7440-38-2	Arsenic	75	255230	102.94	100.00	103	☑
7782-49-2	Selenium	82	25194	110.23	100.00	110	☑
7440-22-4	Silver	107	402886	48.192	50.000	96.4	☑
7440-43-9	Cadmium	111	193030	100.22	100.00	100	☑
7440-36-0	Antimony	121	337308	50.812	50.000	102	☑
7440-39-3	Barium	135	177012	102.70	100.00	103	☑
7440-28-0	Thallium	205	744296	49.324	50.000	98.6	☑
7439-92-1	Lead	208	2079680	98.484	100.00	98.5	☑

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	236909		☑
7440-56-4	Germanium	72	1142606		☑
7440-74-6	Indium	115	956708		☑
7440-30-4	Thulium	169			☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 1 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 11 Method 6020_
Acquired: 12/15/2010 14:12:39 M01
Calibrated: 12/15/2010 12:22:32 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	***Beryllium***	***9***	***29145***	***108.27***	***100.00***	***108***	
7429-90-5	***Aluminum***	***27***	***30783526***	***6096.0***	***5100.0***	***120***	
7440-62-2	***Vanadium***	***51***	***1195105***	***105.80***	***100.00***	***106***	
7440-47-3	***Chromium***	***52***	***1106354***	***104.76***	***100.00***	***105***	
7439-89-6	***Iron***	***57***	***1754238***	***5156.0***	***5100.0***	***101***	
7439-96-5	***Manganese***	***55***	***1698883***	***102.17***	***100.00***	***102***	
7440-48-4	***Cobalt***	***59***	***1267930***	***100.07***	***100.00***	***100***	
7440-02-0	***Nickel***	***60***	***270166***	***100.29***	***100.00***	***100***	
7440-50-8	***Copper***	***65***	***277004***	***100.12***	***100.00***	***100***	
7440-66-6	***Zinc***	***68***	***107391***	***102.65***	***100.00***	***103***	
7440-38-2	***Arsenic***	***75***	***280148***	***100.000***	***100.00***	***100***	
7782-49-2	***Selenium***	***82***	***25727***	***99.151***	***100.00***	***99.2***	
7440-22-4	***Silver***	***107***	***456063***	***50.487***	***50.000***	***101***	
7440-43-9	***Cadmium***	***111***	***213203***	***102.46***	***100.00***	***102***	
7440-36-0	***Antimony***	***121***	***367748***	***51.276***	***50.000***	***103***	
7440-39-3	***Barium***	***135***	***186952***	***100.39***	***100.00***	***100***	
7440-28-0	***Thallium***	***205***	***886298***	***51.159***	***50.000***	***102***	
7439-92-1	***Lead***	***208***	***2496766***	***102.96***	***100.00***	***103***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***321544***		☑
7440-56-4	***Germanium***	***72***	***1289213***		☑
7440-74-6	***Indium***	***115***	***1033921***		☑
7440-30-4	***Thulium***	***169***			☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 1** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 12 Method 6020_
Acquired: 12/15/2010 14:17:00 M01
Calibrated: 12/15/2010 14:12:39 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	11	0.00449	1.0	0.078	0.0	
7429-90-5	Aluminum	27	17565	0.94246	50.0	2.1	0.0	
7440-62-2	Vanadium	51	-10979	0.63126	10.0	3.1	0.0	
7440-47-3	Chromium	52	34670	0.11775	2.0	0.92	0.0	
7439-89-6	Iron	57	11619	2.4089	50.0	17.0	0.0	
7439-96-5	Manganese	55	2334	-0.00915	1.0	0.083	0.0	
7440-48-4	Cobalt	59	339	-0.00985	1.0	0.057	0.0	
7440-02-0	Nickel	60	284	0.01178	2.0	0.098	0.0	
7440-50-8	Copper	65	150	-0.00242				
7440-66-6	Zinc	68	989	-0.01855	5.0	1.0	0.0	
7440-38-2	Arsenic	75	16898	-0.05220	2.0	0.50	0.0	
7782-49-2	Selenium	82	1511	-0.36670	2.0	1.7	0.0	
7440-22-4	Silver	107	121	-0.00239	1.0	0.030	0.0	
7440-43-9	Cadmium	111	50	-0.00853	1.0	0.074	0.0	
7440-36-0	Antimony	121	218	-0.01522	2.0	0.036	0.0	
7440-39-3	Barium	135	168	-0.01378	1.0	0.96	0.0	
7440-28-0	Thallium	205	5492	0.22101	1.0	0.34	0.0	
7439-92-1	Lead	208	1810	-0.00209	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	317653		☑
7440-56-4	Germanium	72	1283863		☑
7440-74-6	Indium	115	1066854		☑
7440-30-4	Thulium	169			☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 2 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 15 Method 6020_
Acquired: 12/15/2010 14:23:21 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	29086	100.78	100.00	101	
7429-90-5	Aluminum	27	30491168	5154.4	5100.0	101	
7440-62-2	Vanadium	51	1188824	101.48	100.00	101	
7440-47-3	Chromium	52	1105954	102.06	100.00	102	
7439-89-6	Iron	57	1738676	5157.3	5100.0	101	
7439-96-5	Manganese	55	1694304	101.76	100.00	102	
7440-48-4	Cobalt	59	1250987	100.67	100.00	101	
7440-02-0	Nickel	60	267201	100.92	100.00	101	
7440-50-8	Copper	65	275838	101.60	100.00	102	
7440-66-6	Zinc	68	106140	100.86	100.00	101	
7440-38-2	Arsenic	75	276281	100.66	100.00	101	
7782-49-2	Selenium	82	25047	99.306	100.00	99.3	
7440-22-4	Silver	107	449148	49.748	50.000	99.5	
7440-43-9	Cadmium	111	210929	99.934	100.00	99.9	
7440-36-0	Antimony	121	365701	50.224	50.000	100	
7440-39-3	Barium	135	186853	100.96	100.00	101	
7440-28-0	Thallium	205	889133	50.280	50.000	101	
7439-92-1	Lead	208	2489206	99.950	100.00	100	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	318394		☑
7440-56-4	Germanium	72	1263074		☑
7440-74-6	Indium	115	1023310		☑
7440-30-4	Thulium	169			☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 2** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 16 Method 6020_
Acquired: 12/15/2010 14:27:43 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	11	0.00050	1.0	0.078	0.0	
7429-90-5	Aluminum	27	18589	0.18956	50.0	2.1	0.0	
7440-62-2	Vanadium	51	-6788	0.34522	10.0	3.1	0.0	
7440-47-3	Chromium	52	31338	-0.29418	2.0	0.92	0.0	
7439-89-6	Iron	57	11220	-0.97136	50.0	17.0	0.0	
7439-96-5	Manganese	55	2392	0.00430	1.0	0.083	0.0	
7440-48-4	Cobalt	59	425	0.00702	1.0	0.057	0.0	
7440-02-0	Nickel	60	298	0.00595	2.0	0.098	0.0	
7440-50-8	Copper	65	188	0.01396				
7440-66-6	Zinc	68	1026	0.04067	5.0	1.0	0.0	
7440-38-2	Arsenic	75	15917	-0.33707	2.0	0.50	0.0	
7782-49-2	Selenium	82	1558	0.23561	2.0	1.7	0.0	
7440-22-4	Silver	107	143	0.00273	1.0	0.030	0.0	
7440-43-9	Cadmium	111	72	0.01107	1.0	0.074	0.0	
7440-36-0	Antimony	121	350	0.01854	2.0	0.036	0.0	
7440-39-3	Barium	135	169	0.00261	1.0	0.96	0.0	
7440-28-0	Thallium	205	9149	0.20838	1.0	0.34	0.0	
7439-92-1	Lead	208	2256	0.01841	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	311521		☑
7440-56-4	Germanium	72	1276082		☑
7440-74-6	Indium	115	1038353		☑
7440-30-4	Thulium	169			☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 3 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 26 Method 6020_
Acquired: 12/15/2010 15:10:08 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	30059	100.06	100.00	100	
7429-90-5	Aluminum	27	30695195	5236.6	5100.0	103	
7440-62-2	Vanadium	51	1174817	101.20	100.00	101	
7440-47-3	Chromium	52	1076868	100.24	100.00	100	
7439-89-6	Iron	57	1710191	5119.4	5100.0	100	
7439-96-5	Manganese	55	1667202	101.06	100.00	101	
7440-48-4	Cobalt	59	1224029	99.403	100.00	99.4	
7440-02-0	Nickel	60	259466	98.898	100.00	98.9	
7440-50-8	Copper	65	270041	100.38	100.00	100	
7440-66-6	Zinc	68	104835	100.54	100.00	101	
7440-38-2	Arsenic	75	272984	100.36	100.00	100	
7782-49-2	Selenium	82	24856	99.467	100.00	99.5	
7440-22-4	Silver	107	441789	49.232	50.000	98.5	
7440-43-9	Cadmium	111	206854	98.608	100.00	98.6	
7440-36-0	Antimony	121	360945	49.875	50.000	99.7	
7440-39-3	Barium	135	185197	100.68	100.00	101	
7440-28-0	Thallium	205	872510	49.677	50.000	99.4	
7439-92-1	Lead	208	2454168	99.223	100.00	99.2	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	331323		☑
7440-56-4	Germanium	72	1251565		☑
7440-74-6	Indium	115	1017019		☑
7440-30-4	Thulium	169			☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 3** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 27 Method 6020_
Acquired: 12/15/2010 15:14:29 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	11	0.00134	1.0	0.078	0.0	
7429-90-5	Aluminum	27	25332	1.3681	50.0	2.1	0.0	
7440-62-2	Vanadium	51	-8404	0.20140	10.0	3.1	0.0	
7440-47-3	Chromium	52	30004	-0.38240	2.0	0.92	0.0	
7439-89-6	Iron	57	10518	-2.6288	50.0	17.0	0.0	
7439-96-5	Manganese	55	2250	-0.00238	1.0	0.083	0.0	
7440-48-4	Cobalt	59	425	0.00754	1.0	0.057	0.0	
7440-02-0	Nickel	60	300	0.00840	2.0	0.098	0.0	
7440-50-8	Copper	65	199	0.01886				
7440-66-6	Zinc	68	911	-0.05697	5.0	1.0	0.0	
7440-38-2	Arsenic	75	16300	-0.10622	2.0	0.50	0.0	
7782-49-2	Selenium	82	1487	0.02006	2.0	1.7	0.0	
7440-22-4	Silver	107	144	0.00310	1.0	0.030	0.0	
7440-43-9	Cadmium	111	69	0.01004	1.0	0.074	0.0	
7440-36-0	Antimony	121	295	0.01168	2.0	0.036	0.0	
7440-39-3	Barium	135	170	0.00460	1.0	0.96	0.0	
7440-28-0	Thallium	205	6731	0.07628	1.0	0.34	0.0	
7439-92-1	Lead	208	2484	0.02836	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	325764		☑
7440-56-4	Germanium	72	1259315		☑
7440-74-6	Indium	115	1025159		☑
7440-30-4	Thulium	169			☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 4 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 28 Method 6020_
Acquired: 12/15/2010 15:18:50 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	***Beryllium***	***9***	***30500***	***100.06***	***100.00***	***100***	
7440-47-3	***Chromium***	***52***	***1041104***	***98.644***	***100.00***	***98.6***	
7439-96-5	***Manganese***	***55***	***1595402***	***98.479***	***100.00***	***98.5***	
7440-02-0	***Nickel***	***60***	***250014***	***97.049***	***100.00***	***97.0***	
7440-50-8	***Copper***	***65***	***264620***	***100.18***	***100.00***	***100***	
7440-66-6	***Zinc***	***68***	***102686***	***100.28***	***100.00***	***100***	
7440-43-9	***Cadmium***	***111***	***209734***	***99.231***	***100.00***	***99.2***	
7440-36-0	***Antimony***	***121***	***364667***	***50.011***	***50.000***	***100***	
7440-39-3	***Barium***	***135***	***187965***	***101.42***	***100.00***	***101***	
7439-92-1	***Lead***	***208***	***2478151***	***98.516***	***100.00***	***98.5***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***336195***		☑
7440-56-4	***Germanium***	***72***	***1228969***		☑
7440-74-6	***Indium***	***115***	***1024721***		☑
7440-30-4	***Thulium***	***169***			☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 4** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 29 Method 6020_
Acquired: 12/15/2010 15:22:14 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	***Beryllium***	***9***	***8***	***-0.01007***	***1.0***	***0.078***	***0.0***	
7440-47-3	***Chromium***	***52***	***29851***	***-0.35021***	***2.0***	***0.92***	***0.0***	
7439-96-5	***Manganese***	***55***	***2145***	***-0.00663***	***1.0***	***0.083***	***0.0***	
7440-02-0	***Nickel***	***60***	***258***	***-0.00595***	***2.0***	***0.098***	***0.0***	
7440-50-8	***Copper***	***65***	***158***	***0.00500***				
7440-66-6	***Zinc***	***68***	***989***	***0.03393***	***5.0***	***1.0***	***0.0***	
7440-43-9	***Cadmium***	***111***	***43***	***-0.00263***	***1.0***	***0.074***	***0.0***	
7440-36-0	***Antimony***	***121***	***233***	***0.00255***	***2.0***	***0.036***	***0.0***	
7440-39-3	***Barium***	***135***	***160***	***-0.00253***	***1.0***	***0.96***	***0.0***	
7439-92-1	***Lead***	***208***	***2065***	***0.00980***	***1.0***	***0.066***	***0.0***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***340856***		☑
7440-56-4	***Germanium***	***72***	***1239145***		☑
7440-74-6	***Indium***	***115***	***1046112***		☑
7440-30-4	***Thulium***	***169***			☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 5 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 30 Method 6020_
Acquired: 12/15/2010 15:25:38 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	***Beryllium***	***9***	***30898***	***99.995***	***100.00***	***100***	
7440-47-3	***Chromium***	***52***	***1041413***	***97.352***	***100.00***	***97.4***	
7439-96-5	***Manganese***	***55***	***1613773***	***98.324***	***100.00***	***98.3***	
7440-02-0	***Nickel***	***60***	***254741***	***97.605***	***100.00***	***97.6***	
7440-50-8	***Copper***	***65***	***266265***	***99.493***	***100.00***	***99.5***	
7440-66-6	***Zinc***	***68***	***103485***	***99.752***	***100.00***	***99.8***	
7440-43-9	***Cadmium***	***111***	***209545***	***98.795***	***100.00***	***98.8***	
7440-36-0	***Antimony***	***121***	***366993***	***50.156***	***50.000***	***100***	
7440-39-3	***Barium***	***135***	***188161***	***101.17***	***100.00***	***101***	
7439-92-1	***Lead***	***208***	***2489323***	***97.948***	***100.00***	***97.9***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***340751***		☑
7440-56-4	***Germanium***	***72***	***1245056***		☑
7440-74-6	***Indium***	***115***	***1028302***		☑
7440-30-4	***Thulium***	***169***			☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 5** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 31 Method 6020_
Acquired: 12/15/2010 15:29:02 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	***Beryllium***	***9***	***14***	***0.00773***	***1.0***	***0.078***	***0.0***	
7440-47-3	***Chromium***	***52***	***28360***	***-0.52349***	***2.0***	***0.92***	***0.0***	
7439-96-5	***Manganese***	***55***	***2312***	***0.00213***	***1.0***	***0.083***	***0.0***	
7440-02-0	***Nickel***	***60***	***294***	***0.00651***	***2.0***	***0.098***	***0.0***	
7440-50-8	***Copper***	***65***	***192***	***0.01674***				
7440-66-6	***Zinc***	***68***	***946***	***-0.01799***	***5.0***	***1.0***	***0.0***	
7440-43-9	***Cadmium***	***111***	***72***	***0.01064***	***1.0***	***0.074***	***0.0***	
7440-36-0	***Antimony***	***121***	***270***	***0.00723***	***2.0***	***0.036***	***0.0***	
7440-39-3	***Barium***	***135***	***172***	***0.00286***	***1.0***	***0.96***	***0.0***	
7439-92-1	***Lead***	***208***	***2496***	***0.02564***	***1.0***	***0.066***	***0.0***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***336464***		☑
7440-56-4	***Germanium***	***72***	***1252147***		☑
7440-74-6	***Indium***	***115***	***1052940***		☑
7440-30-4	***Thulium***	***169***			☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 6 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 42 Method 6020_
Acquired: 12/15/2010 16:05:14 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	***Beryllium***	***9***	***31335***	***99.474***	***100.00***	***99.5***	
7440-47-3	***Chromium***	***52***	***1089390***	***99.462***	***100.00***	***99.5***	
7439-96-5	***Manganese***	***55***	***1684334***	***100.16***	***100.00***	***100***	
7440-02-0	***Nickel***	***60***	***266981***	***99.841***	***100.00***	***99.8***	
7440-50-8	***Copper***	***65***	***277584***	***101.23***	***100.00***	***101***	
7440-66-6	***Zinc***	***68***	***106851***	***100.53***	***100.00***	***101***	
7440-43-9	***Cadmium***	***111***	***216724***	***99.681***	***100.00***	***99.7***	
7440-36-0	***Antimony***	***121***	***378285***	***50.435***	***50.000***	***101***	
7440-39-3	***Barium***	***135***	***193823***	***101.67***	***100.00***	***102***	
7439-92-1	***Lead***	***208***	***2570077***	***99.976***	***100.00***	***100***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***347441***		☑
7440-56-4	***Germanium***	***72***	***1275738***		☑
7440-74-6	***Indium***	***115***	***1054199***		☑
7440-30-4	***Thulium***	***169***			☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 6** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 43 Method 6020_
Acquired: 12/15/2010 16:08:38 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	***Beryllium***	***9***	***34***	***0.07223***	***1.0***	***0.078***	***0.0***	
7440-47-3	***Chromium***	***52***	***29367***	***-0.48226***	***2.0***	***0.92***	***0.0***	
7439-96-5	***Manganese***	***55***	***3457***	***0.06703***	***1.0***	***0.083***	***0.0***	
7440-02-0	***Nickel***	***60***	***461***	***0.06659***	***2.0***	***0.098***	***0.0***	
7440-50-8	***Copper***	***65***	***375***	***0.08190***				
7440-66-6	***Zinc***	***68***	***884***	***-0.09475***	***5.0***	***1.0***	***0.0***	
7440-43-9	***Cadmium***	***111***	***229***	***0.08062***	***1.0***	***0.074***	***0.0***	
7440-36-0	***Antimony***	***121***	***619***	***0.05211***	***2.0***	***0.036***	***0.0***	
7440-39-3	***Barium***	***135***	***317***	***0.07587***	***1.0***	***0.96***	***0.0***	
7439-92-1	***Lead***	***208***	***4414***	***0.09694***	***1.0***	***0.066***	***0.0***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***343892***		☑
7440-56-4	***Germanium***	***72***	***1277235***		☑
7440-74-6	***Indium***	***115***	***1072431***		☑
7440-30-4	***Thulium***	***169***			☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 7 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 44 Method 6020_
Acquired: 12/15/2010 16:12:02 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	*Beryllium*	*9*	*31241*	*99.635*	*100.00*	*99.6*	
7440-47-3	*Chromium*	*52*	*1065289*	*97.358*	*100.00*	*97.4*	
7439-96-5	*Manganese*	*55*	*1646666*	*98.093*	*100.00*	*98.1*	
7440-02-0	*Nickel*	*60*	*259615*	*97.247*	*100.00*	*97.2*	
7440-50-8	*Copper*	*65*	*269541*	*98.465*	*100.00*	*98.5*	
7440-66-6	*Zinc*	*68*	*104343*	*98.333*	*100.00*	*98.3*	
7440-43-9	*Cadmium*	*111*	*211383*	*96.856*	*100.00*	*96.9*	
7440-36-0	*Antimony*	*121*	*371742*	*49.373*	*50.000*	*98.7*	
7440-39-3	*Barium*	*135*	*191215*	*99.921*	*100.00*	*99.9*	
7439-92-1	*Lead*	*208*	*2539197*	*97.719*	*100.00*	*97.7*	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	*Lithium-6*	*6*	*346157*		☑
7440-56-4	*Germanium*	*72*	*1273835*		☑
7440-74-6	*Indium*	*115*	*1058161*		☑
7440-30-4	*Thulium*	*169*			☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 7** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 45 Method 6020_
Acquired: 12/15/2010 16:15:25 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	***Beryllium***	***9***	***30***	***0.06175***	***1.0***	***0.078***	***0.0***	
7440-47-3	***Chromium***	***52***	***28638***	***-0.54868***	***2.0***	***0.92***	***0.0***	
7439-96-5	***Manganese***	***55***	***3246***	***0.05510***	***1.0***	***0.083***	***0.0***	
7440-02-0	***Nickel***	***60***	***469***	***0.07004***	***2.0***	***0.098***	***0.0***	
7440-50-8	***Copper***	***65***	***381***	***0.08446***				
7440-66-6	***Zinc***	***68***	***933***	***-0.04775***	***5.0***	***1.0***	***0.0***	
7440-43-9	***Cadmium***	***111***	***189***	***0.06305***	***1.0***	***0.074***	***0.0***	
7440-36-0	***Antimony***	***121***	***518***	***0.03938***	***2.0***	***0.036***	***0.0***	
7440-39-3	***Barium***	***135***	***290***	***0.06262***	***1.0***	***0.96***	***0.0***	
7439-92-1	***Lead***	***208***	***4193***	***0.08965***	***1.0***	***0.066***	***0.0***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***338050***		☑
7440-56-4	***Germanium***	***72***	***1276083***		☑
7440-74-6	***Indium***	***115***	***1069379***		☑
7440-30-4	***Thulium***	***169***			☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 8 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 56 Method 6020_
Acquired: 12/15/2010 16:51:56 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	***Beryllium***	***9***	***33134***	***103.11***	***100.00***	***103***	
7440-47-3	***Chromium***	***52***	***1122550***	***99.548***	***100.00***	***99.5***	
7439-96-5	***Manganese***	***55***	***1729006***	***99.875***	***100.00***	***99.9***	
7440-02-0	***Nickel***	***60***	***272275***	***98.892***	***100.00***	***98.9***	
7440-50-8	***Copper***	***65***	***283222***	***100.32***	***100.00***	***100***	
7440-66-6	***Zinc***	***68***	***109784***	***100.33***	***100.00***	***100***	
7440-43-9	***Cadmium***	***111***	***215417***	***98.892***	***100.00***	***98.9***	
7440-36-0	***Antimony***	***121***	***379913***	***50.560***	***50.000***	***101***	
7440-39-3	***Barium***	***135***	***194755***	***101.96***	***100.00***	***102***	
7439-92-1	***Lead***	***208***	***2586097***	***99.544***	***100.00***	***99.5***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***354382***		☑
7440-56-4	***Germanium***	***72***	***1313358***		☑
7440-74-6	***Indium***	***115***	***1056074***		☑
7440-30-4	***Thulium***	***169***			☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 8** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 57 Method 6020_
Acquired: 12/15/2010 16:55:19 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	***Beryllium***	***9***	***33***	***0.06433***	***1.0***	***0.078***	***0.0***	
7440-47-3	***Chromium***	***52***	***32161***	***-0.28248***	***2.0***	***0.92***	***0.0***	
7439-96-5	***Manganese***	***55***	***3728***	***0.07887***	***1.0***	***0.083***	***0.0***	
7440-02-0	***Nickel***	***60***	***517***	***0.08357***	***2.0***	***0.098***	***0.0***	
7440-50-8	***Copper***	***65***	***491***	***0.12038***				
7440-66-6	***Zinc***	***68***	***853***	***-0.14109***	***5.0***	***1.0***	***0.0***	
7440-43-9	***Cadmium***	***111***	***267***	***0.09664***	***1.0***	***0.074***	***0.0***	
7440-36-0	***Antimony***	***121***	***702***	***0.06235***	***2.0***	***0.036***	***0.0***	
7440-39-3	***Barium***	***135***	***345***	***0.08885***	***1.0***	***0.96***	***0.0***	
7439-92-1	***Lead***	***208***	***4604***	***0.10274***	***1.0***	***0.066***	***0.0***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***361017***		☑
7440-56-4	***Germanium***	***72***	***1304452***		☑
7440-74-6	***Indium***	***115***	***1083093***		☑
7440-30-4	***Thulium***	***169***			☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 9 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 58 Method 6020_
Acquired: 12/15/2010 16:58:43 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	***Beryllium***	***9***	***33124***	***102.25***	***100.00***	***102***	
7440-47-3	***Chromium***	***52***	***1108249***	***99.690***	***100.00***	***99.7***	
7439-96-5	***Manganese***	***55***	***1697779***	***99.466***	***100.00***	***99.5***	
7440-02-0	***Nickel***	***60***	***266973***	***98.360***	***100.00***	***98.4***	
7440-50-8	***Copper***	***65***	***279379***	***100.38***	***100.00***	***100***	
7440-66-6	***Zinc***	***68***	***107857***	***99.971***	***100.00***	***100***	
7440-43-9	***Cadmium***	***111***	***213832***	***98.328***	***100.00***	***98.3***	
7440-36-0	***Antimony***	***121***	***378484***	***50.449***	***50.000***	***101***	
7440-39-3	***Barium***	***135***	***194024***	***101.75***	***100.00***	***102***	
7439-92-1	***Lead***	***208***	***2571602***	***98.983***	***100.00***	***99.0***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***357323***		☑
7440-56-4	***Germanium***	***72***	***1294874***		☑
7440-74-6	***Indium***	***115***	***1054434***		☑
7440-30-4	***Thulium***	***169***			☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 9** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 59 Method 6020_
Acquired: 12/15/2010 17:02:07 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	41	0.09109	1.0	0.078	0.0	
7440-47-3	Chromium	52	30590	-0.41490	2.0	0.92	0.0	
7439-96-5	Manganese	55	4108	0.10213	1.0	0.083	0.0	
7440-02-0	Nickel	60	603	0.11615	2.0	0.098	0.0	
7440-50-8	Copper	65	527	0.13444				
7440-66-6	Zinc	68	947	-0.04982	5.0	1.0	0.0	
7440-43-9	Cadmium	111	323	0.12301	1.0	0.074	0.0	
7440-36-0	Antimony	121	724	0.06605	2.0	0.036	0.0	
7440-39-3	Barium	135	366	0.10123	1.0	0.96	0.0	
7439-92-1	Lead	208	5234	0.12861	1.0	0.066	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	353648		☑
7440-56-4	Germanium	72	1298729		☑
7440-74-6	Indium	115	1072870		☑
7440-30-4	Thulium	169			☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 10 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 70 Method 6020_
Acquired: 12/15/2010 17:38:16 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	***Beryllium***	***9***	***33106***	***103.99***	***100.00***	***104***	
7440-47-3	***Chromium***	***52***	***1115265***	***99.997***	***100.00***	***100***	
7439-96-5	***Manganese***	***55***	***1724462***	***100.69***	***100.00***	***101***	
7440-02-0	***Nickel***	***60***	***270414***	***99.286***	***100.00***	***99.3***	
7440-50-8	***Copper***	***65***	***281702***	***100.87***	***100.00***	***101***	
7440-66-6	***Zinc***	***68***	***109197***	***100.87***	***100.00***	***101***	
7440-43-9	***Cadmium***	***111***	***214060***	***99.044***	***100.00***	***99.0***	
7440-36-0	***Antimony***	***121***	***377985***	***50.696***	***50.000***	***101***	
7440-39-3	***Barium***	***135***	***190898***	***100.72***	***100.00***	***101***	
7439-92-1	***Lead***	***208***	***2566926***	***101.95***	***100.00***	***102***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***351116***		☑
7440-56-4	***Germanium***	***72***	***1299833***		☑
7440-74-6	***Indium***	***115***	***1048099***		☑
7440-30-4	***Thulium***	***169***			☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 10** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 71 Method 6020_
Acquired: 12/15/2010 17:41:40 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	***Beryllium***	***9***	***55***	***0.13480***	***1.0***	***0.078***	***0.0***	
7440-47-3	***Chromium***	***52***	***31873***	***-0.30154***	***2.0***	***0.92***	***0.0***	
7439-96-5	***Manganese***	***55***	***4265***	***0.11097***	***1.0***	***0.083***	***0.0***	
7440-02-0	***Nickel***	***60***	***601***	***0.11512***	***2.0***	***0.098***	***0.0***	
7440-50-8	***Copper***	***65***	***598***	***0.15954***				
7440-66-6	***Zinc***	***68***	***876***	***-0.11771***	***5.0***	***1.0***	***0.0***	
7440-43-9	***Cadmium***	***111***	***302***	***0.11572***	***1.0***	***0.074***	***0.0***	
7440-36-0	***Antimony***	***121***	***778***	***0.07459***	***2.0***	***0.036***	***0.0***	
7440-39-3	***Barium***	***135***	***398***	***0.12064***	***1.0***	***0.96***	***0.0***	
7439-92-1	***Lead***	***208***	***4994***	***0.12182***	***1.0***	***0.066***	***0.0***	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	***Lithium-6***	***6***	***353339***		☑
7440-56-4	***Germanium***	***72***	***1301079***		☑
7440-74-6	***Indium***	***115***	***1057419***		☑
7440-30-4	***Thulium***	***169***			☑

Reviewed by: Date:

TAL West Sac

CALIBRATION REPORT

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 11 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 72 Method 6020_
Acquired: 12/15/2010 17:45:05 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-47-3	***Chromium***	***52***	***1060052***	***96.335***	***100.00***	***96.3***	
7439-96-5	***Manganese***	***55***	***1630852***	***96.630***	***100.00***	***96.6***	
7440-02-0	***Nickel***	***60***	***258780***	***96.421***	***100.00***	***96.4***	
7440-38-2	***Arsenic***	***75***	***272638***	***97.837***	***100.00***	***97.8***	
7440-43-9	***Cadmium***	***111***	***205239***	***96.967***	***100.00***	***97.0***	
7439-92-1	***Lead***	***208***	***2447806***	***98.059***	***100.00***	***98.1***	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***	***1280301***		☑
7440-74-6	***Indium***	***115***	***1026197***		☑
7440-30-4	***Thulium***	***169***	***711345***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 11** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 73 Method 6020_
Acquired: 12/15/2010 17:48:31 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-47-3	***Chromium***	***52***	***24034***	***-0.98022***	***2.0***	***0.92***	***0.0***	
7439-96-5	***Manganese***	***55***	***3442***	***0.06702***	***1.0***	***0.083***	***0.0***	
7440-02-0	***Nickel***	***60***	***391***	***0.04120***	***2.0***	***0.098***	***0.0***	
7440-38-2	***Arsenic***	***75***	***16528***	***-0.09602***	***2.0***	***0.50***	***0.0***	
7440-43-9	***Cadmium***	***111***	***157***	***0.04981***	***1.0***	***0.074***	***0.0***	
7439-92-1	***Lead***	***208***	***4626***	***0.11162***	***1.0***	***0.066***	***0.0***	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***	***1274768***		☑
7440-74-6	***Indium***	***115***	***1050671***		☑
7440-30-4	***Thulium***	***169***	***722763***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 12 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 74 Method 6020_
Acquired: 12/15/2010 17:51:58 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-47-3	***Chromium***	***52***	***1049413***	***94.969***	***100.00***	***95.0***	
7439-96-5	***Manganese***	***55***	***1625640***	***95.960***	***100.00***	***96.0***	
7440-02-0	***Nickel***	***60***	***255442***	***94.823***	***100.00***	***94.8***	
7440-38-2	***Arsenic***	***75***	***269085***	***96.089***	***100.00***	***96.1***	
7440-43-9	***Cadmium***	***111***	***202623***	***94.804***	***100.00***	***94.8***	
7439-92-1	***Lead***	***208***	***2445287***	***97.452***	***100.00***	***97.5***	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***	***1285075***		☑
7440-74-6	***Indium***	***115***	***1036279***		☑
7440-30-4	***Thulium***	***169***	***715002***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 12** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 75 Method 6020_
Acquired: 12/15/2010 17:55:23 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-47-3	***Chromium***	***52***	***24050***	***-0.98154***	***2.0***	***0.92***	***0.0***	
7439-96-5	***Manganese***	***55***	***3921***	***0.09517***	***1.0***	***0.083***	***0.0***	
7440-02-0	***Nickel***	***60***	***450***	***0.06299***	***2.0***	***0.098***	***0.0***	
7440-38-2	***Arsenic***	***75***	***17234***	***0.16810***	***2.0***	***0.50***	***0.0***	
7440-43-9	***Cadmium***	***111***	***238***	***0.08719***	***1.0***	***0.074***	***0.0***	
7439-92-1	***Lead***	***208***	***5394***	***0.14254***	***1.0***	***0.066***	***0.0***	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***	***1276270***		☑
7440-74-6	***Indium***	***115***	***1048451***		☑
7440-30-4	***Thulium***	***169***	***720632***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 13 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 86 Method 6020_
Acquired: 12/15/2010 18:31:55 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-47-3	***Chromium***	***52***	***1089398***	***96.817***	***100.00***	***96.8***	
7439-96-5	***Manganese***	***55***	***1675229***	***97.059***	***100.00***	***97.1***	
7440-02-0	***Nickel***	***60***	***264877***	***96.501***	***100.00***	***96.5***	
7440-38-2	***Arsenic***	***75***	***277411***	***97.305***	***100.00***	***97.3***	
7440-43-9	***Cadmium***	***111***	***206647***	***95.637***	***100.00***	***95.6***	
7439-92-1	***Lead***	***208***	***2457408***	***97.639***	***100.00***	***97.6***	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***	***1309378***		☑
7440-74-6	***Indium***	***115***	***1047856***		☑
7440-30-4	***Thulium***	***169***	***717245***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 13** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 87 Method 6020_
Acquired: 12/15/2010 18:35:21 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-47-3	***Chromium***	***52***	***25102***	***-0.92283***	***2.0***	***0.92***	***0.0***	
7439-96-5	***Manganese***	***55***	***4067***	***0.09939***	***1.0***	***0.083***	***0.0***	
7440-02-0	***Nickel***	***60***	***488***	***0.07383***	***2.0***	***0.098***	***0.0***	
7440-38-2	***Arsenic***	***75***	***17111***	***0.01050***	***2.0***	***0.50***	***0.0***	
7440-43-9	***Cadmium***	***111***	***235***	***0.08628***	***1.0***	***0.074***	***0.0***	
7439-92-1	***Lead***	***208***	***5344***	***0.14061***	***1.0***	***0.066***	***0.0***	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***	***1298156***		☑
7440-74-6	***Indium***	***115***	***1041991***		☑
7440-30-4	***Thulium***	***169***	***718836***		☑

Reviewed by: Date:

TAL West Sac

CALIBRATION REPORT

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 14 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 88 Method 6020_
Acquired: 12/15/2010 18:38:47 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-47-3	***Chromium***	***52***	***1057141***	***95.791***	***100.00***	***95.8***	
7439-96-5	***Manganese***	***55***	***1634371***	***96.576***	***100.00***	***96.6***	
7440-02-0	***Nickel***	***60***	***257242***	***95.581***	***100.00***	***95.6***	
7440-38-2	***Arsenic***	***75***	***271497***	***97.115***	***100.00***	***97.1***	
7440-43-9	***Cadmium***	***111***	***204278***	***96.152***	***100.00***	***96.2***	
7439-92-1	***Lead***	***208***	***2423348***	***97.480***	***100.00***	***97.5***	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***	***1283887***		☑
7440-74-6	***Indium***	***115***	***1030028***		☑
7440-30-4	***Thulium***	***169***	***708452***		☑

Reviewed by: Date:

TAL West Sac

BLANK REPORT

Method: 6020 (SOP: SAC-MT-001) | M01 | Reported: 12/16/10 07:18:50

Department: 120 (Metals) | Source: MetEdit

Sample: **CCB 14** | Mult: **1.00** | Dilf: **1.00** | Divs: **1.000**

Instrument: **ICPMS M01** | Channel 261
File: 101215B1 # 89 | Method 6020_
Acquired: 12/15/2010 18:42:13 | M01
Calibrated: 12/15/2010 14:17:00 | Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-47-3	***Chromium***	***52***	***25089***	***-0.89446***	***2.0***	***0.92***	***0.0***	
7439-96-5	***Manganese***	***55***	***4675***	***0.13832***	***1.0***	***0.083***	***0.0***	
7440-02-0	***Nickel***	***60***	***577***	***0.10914***	***2.0***	***0.098***	***0.0***	
7440-38-2	***Arsenic***	***75***	***17524***	***0.24940***	***2.0***	***0.50***	***0.0***	
7440-43-9	***Cadmium***	***111***	***340***	***0.13595***	***1.0***	***0.074***	***0.0***	
7439-92-1	***Lead***	***208***	***6089***	***0.17333***	***1.0***	***0.066***	***0.0***	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***	***1281995***		☑
7440-74-6	***Indium***	***115***	***1036990***		☑
7440-30-4	***Thulium***	***169***	***711435***		☑

Reviewed by: Date:

TAL West Sac

CALIBRATION REPORT

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 15 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 99 Method 6020_
Acquired: 12/15/2010 19:14:56 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-47-3	***Chromium***	***52***	***1065421***	***95.966***	***100.00***	***96.0***	
7439-96-5	***Manganese***	***55***	***1649517***	***96.870***	***100.00***	***96.9***	
7440-02-0	***Nickel***	***60***	***258729***	***95.549***	***100.00***	***95.5***	
7440-38-2	***Arsenic***	***75***	***271144***	***96.356***	***100.00***	***96.4***	
7440-43-9	***Cadmium***	***111***	***202765***	***95.426***	***100.00***	***95.4***	
7439-92-1	***Lead***	***208***	***2438436***	***97.759***	***100.00***	***97.8***	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***	***1291718***		☑
7440-74-6	***Indium***	***115***	***1030195***		☑
7440-30-4	***Thulium***	***169***	***710805***		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M01 Reported: 12/16/10 07:18:50

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 15** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M01** Channel 261
File: 101215B1 # 100 Method 6020_
Acquired: 12/15/2010 19:18:22 M01
Calibrated: 12/15/2010 14:17:00 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-47-3	***Chromium***	***52***	***24481***	***-0.93829***	***2.0***	***0.92***	***0.0***	
7439-96-5	***Manganese***	***55***	***13556***	***0.66826***	***1.0***	***0.083***	***0.0***	
7440-02-0	***Nickel***	***60***	***463***	***0.06792***	***2.0***	***0.098***	***0.0***	
7440-38-2	***Arsenic***	***75***	***17392***	***0.23578***	***2.0***	***0.50***	***0.0***	
7440-43-9	***Cadmium***	***111***	***227***	***0.08403***	***1.0***	***0.074***	***0.0***	
7439-92-1	***Lead***	***208***	***5251***	***0.14015***	***1.0***	***0.066***	***0.0***	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***	***1274835***		☑
7440-74-6	***Indium***	***115***	***1031182***		☑
7440-30-4	***Thulium***	***169***			☑

Reviewed by: Date:

TAL West Sac

SERIAL DILUTION

Method: 6020 (SOP: SAC-MT-001) | M01 | Reported: 12/16/10 07:20:30

Department: 120 (Metals) | Source: MetEdit

Sample: **MA8C9P5** | Serial Dilution: **5.00** | Sample Dilution: **1.00**

Instrument: **ICPMS M01** | Channel 261
File: 101215B1 # 94 | Method 6020_
Acquired: 12/15/2010 18:58:37 | M01 | Matrix: AIR
Calibrated: 12/15/2010 14:17:00 | Units: ug/L

CASN	Analyte Name	M/S	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7440-47-3	*Chromium*	*52*	*29261*	*-2.5273*	*2.2921*	*210*		*	
7439-96-5	*Manganese*	*55*	*8357374*	*2472.5*	*2516.8*	*1.76*	*0.14*	*1.8*	☑
7440-02-0	*Nickel*	*60*	*2572*	*4.2578*	*4.4872*	*5.11*		*	
7440-38-2	*Arsenic*	*75*	*17405*	*0.97948*	*1.5832*	*38.1*	*0.41*	*NC*	☑
7440-43-9	*Cadmium*	*111*	*751*	*1.6273*	*2.0294*	*19.8*		*	
7439-92-1	*Lead*	*208*	*30630*	*5.7052*	*5.8920*	*3.17*		*	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	*Germanium*	*72*	*1283492*		☐
7440-74-6	*Indium*	*115*	*1046430*		☐
7440-30-4	*Thulium*	*169*	*720689*		☐

**** Analyte not requested for this batch, no MDL***

NC : Serial dilution concentration < 100 X MDL

E : Difference greater than Limit (10%)

Reviewed by: Date:

TAL West Sac

SAMPLE SPIKE

Method: 6020 (SOP: SAC-MT-001) | M01 | Reported: 12/16/10 07:20:37

Department: 120 (Metals) | Source: MetEdit

Sample: **MA8C9Z** | Spike Dilution: **1.00** | Sample Dilution: **1.00**

Instrument: **ICPMS M01** | Channel 261
File: 101215B1 # 95 | Method 6020_
Acquired: 12/15/2010 19:01:51 | M01 | Matrix: AIR
Calibrated: 12/15/2010 14:17:00 | Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	Sample	%Rec.	Spike	Flag	Q
7440-47-3	***Chromium***	***52***	***1957148***	***183.30***	***2.2921***	***90.5***	***200***		☑
7439-96-5	***Manganese***	***55***	***43955664***	***2646.1***	***2516.8***	***64.7***	***200***	*	☐
7440-02-0	***Nickel***	***60***	***501172***	***189.57***	***4.4872***	***92.5***	***200***		☑
7440-38-2	***Arsenic***	***75***	***495298***	***185.76***	***1.5832***	***92.1***	***200***		☑
7440-43-9	***Cadmium***	***111***	***397245***	***185.32***	***2.0294***	***91.6***	***200***		☑
7439-92-1	***Lead***	***208***	***4852612***	***193.25***	***5.8920***	***93.7***	***200***		☑

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	***Germanium***	***72***	***1261838***		☑
7440-74-6	***Indium***	***115***	***1039361***		☑
7440-30-4	***Thulium***	***169***	***715789***		☑

Reviewed by: Date:

Sample Preparation Log

TestAmerica - West Sacramento
Metals - Air Toxics - Preparation Log

Date: 15-Dec-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
G0L150000	267	MCDVGB	2A	NA	NA	NA	100 mL	349267	1.2
G0L150000	267	MCDVGC	2A	NA	NA	NA	100 mL	349267	1.2
G0L150000	267	MCDVGL	2A	NA	NA	NA	100 mL	349267	1.2
G0L110441	1	MA8C9	2A	9 inches	0.75 inches	0.75 inches	100 mL	349267	1.2
G0L110441	4	MA8DH	2A	9 inches	0.75 inches	0.75 inches	100 mL	349267	1.2
G0L110441	7	MA8DL	2A	9 inches	0.75 inches	0.75 inches	100 mL	349267	1.2
G0L110441	10	MA8DR	2A	9 inches	0.75 inches	0.75 inches	100 mL	349267	1.2

QCs shared with batch 0349266 (LCS, LCSD, MB)

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

Preparation Data Review Checklist

Prep Batch(es) 0349267 0349266 **Test:** 6020

Prep Date: 12/15/10 **Holding Times:** 6/7/11 6/13/11 **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: NM Date: 12/15/10

2nd Level Reviewer: SH Date: 12/16/10

Comments:

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West Sacramento

Metals Spiking Documentation Form

Lot #(s): 60L150435 60L110441

Batch Number: 0349267 / 0349266

EPA Analytical Method ID: 6020

Spiked Date: 12/15/10

MS Sample(s): NA

EPA Prep Method ID: WS-IP-0010

Hot Plate Microwave ID: Alct II

Analyst Initial/Date: JZ 12/15/10

Witness Initial/Date: 12/15/10 NM

Hot Plate Temp: Initial: 93°C Final: 93°C

Correct Folder ID Witness: NA

Digestion Cup Lot #: 1008257-0307

Filter Paper Lot #: 390427

Thermometer ID: BT011

Fin Vol Cup Lot: 100907

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	5,000				
		Al, As, Ba, Se, Sn, Tl	200				
		Fe,Mo,Ti	100				
		Sb,Co,Pb,Mn,Ni,V,Zn	50				
		Cu	25				
		Cr	20				
		,Be,Cd	5				
		Ag	5.0				
	ICP Part 2 2% HNO_3	K,Na	5,000				
		P,S	1,000				
		B,Li,Sr	100				
	Si H20/Tr HF	Si	1,000				JZ 12/15/10
✓	TACA-1 5% HNO_3	Al,K,Mg,Ca,Na,Fe,P,B	500				
		As,Be,Cd,Cr,Co,Cu,Pb, Mn,Ni,Se,U,V,Zn,Ba,Li Sr	100	3189-6-5	200µl	NA	8/31/11
		Ag,Tl	25				
✓	TACA-2 5% HNO_3	Mo, Sb, Sn, Ti	100	3189-6-6	200µl	NA	8/31/11
	Misc. Elements						JZ 12/15/10

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	
✓	3M HNO_3	In-House	4028-35-1		1:1 HCl	In-House	JZ 12/15/10

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.

AIR, TSP-
Total Suspended
Particulates

Raw Data Package

PARTICULATE ANALYSIS

LEVEL 1 & 2 REVIEW CHECKLIST

LAB NUMBERS: GOL110441 (1,4,7,10) Batch #: 0349408

ANALYSIS: (circle) TSP/PM10 or METHOD 5

DATE: 12/15/10 **ANALYST:** JZ

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: JZ 12/15/10

LEVEL 2 REVIEW:			
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: SV 12/17/10

Comments: Dessicator 1A

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 #: **0349408** INITIALS: DATA ENTRY:
PREP DATE: 12/13/10 8:40 PREP JZ INITIALS JZ
COMP DATE: 12/14/10 18:45 ANAL JZ DATE JZ
USER: PHOMSOPT

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
MA8C9-1-AA	G-0L110441-001	XX S 88 AO 3W	M	12/15/10	UW-12072010B
MA8DH-1-AA	G-0L110441-004	XX S 88 AO 3W	M	12/15/10	DW-12072010B
MA8DL-1-AA	G-0L110441-007	XX S 88 AO 3W	M	12/15/10	UW-12082010B
MA8DR-1-AA	G-0L110441-010	XX S 88 AO 3W	M	12/15/10	DW-12082010B

Control Limits

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)	Initial Wts Stablity Check
	5g wt	5.0004 112310skv1636	5.0000 112410skv0731	5.0001 121410jz1112	5.0000 121410jz1837						
[redacted]	tron112310-76	4.3772 112310skv1636	4.3778 112410skv0731	4.4623 121410jz1115	4.4625 121410jz1839					0.0847	
MAWEP 120610jz1000	tron112310-77	4.3738 112310skv1636	4.3735 112410skv0732	4.4372 120710jz1155	4.4374 120710jz1812					0.0639	
MAWEQ 120610jz1000	tron112310-78	4.3781 112310skv1637	4.3776 112410skv0735	4.4526 120710jz1156	4.4527 120710jz1815					0.0751	
[redacted]	tron112310-79	4.3880 112310skv1638	4.3882 112410skv0738	4.4498 121410jz1117	4.4503 121410jz1840					0.0621	✓
[redacted]	tron112310-80	4.3796 112310skv1639	4.3794 112410skv0738	4.3960 121410jz1120	4.3960 121410jz1841					0.0166	✓
[redacted]	tron112310-81	4.3631 112310skv1639	4.3629 112410skv0738	4.4293 121410jz1122	4.4288 121410jz1844					0.0659	✓
MA1XW 120810jz1035	tron112310-82	4.3812 112310skv1640	4.3816 112410skv0739	4.4442 120910jz1211	4.4440 120910jz1826					0.0624	
MA1X8 120810jz1035	tron112310-83	4.3762 112310skv1640	4.3763 112410skv0739	4.4371 120910jz1213	4.4371 120910jz1827					0.0608	
	tron112310-84	4.3756 112310skv1640	4.3756 112410skv0740							NC	
	tron112310-85	4.3786 112310skv1641	4.3790 112410skv0741							NC	
	5g wt	5.0002 112310skv1642	4.9997 112410skv0742	4.9999 121410jz1124	5.0000 121410jz1845					0.0003	

rev 020303
N:/atg/air/airgrav3k.xls

Page 1 of 1 Batch#: 0349408

Reviewed by: SV 12/17/10

PDE115

TestAmerica Laboratories, Inc.
Inorganics Batch Review
QC Batch **0349408**

Date 12/17/2010
Time 21:04:53

Method Code:**AO Particulates in Air, Suspended "TSP HiVol" (APP B)**
Analyst:**Thep Phomsopha**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
MA8C9-1-AA	0.0659	g	0.0005	12/13-12/15/10	.00	N		0.0659	0.0005	1.00
MA8DH-1-AA	0.0166	g	0.0005	12/13-12/15/10	.00	N		0.0166	0.0005	1.00
MA8DL-1-AA	0.0847	g	0.0005	12/13-12/15/10	.00	N		0.0847	0.0005	1.00
MA8DR-1-AA	0.0621	g	0.0005	12/13-12/15/10	.00	N		0.0621	0.0005	1.00

Notes:

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

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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 Lower (g)	Upper (g)	Working WT Denomination (g)	OBSERVED WEIGHT (g)	Acceptance limits*2 Lower (g)	Upper (g)				
0.2000	0.2003	0.1995	0.2005	10.00	10.0003	9.9000	10.100	11/10/10	JZ	QA 011	P
0.2g	0.2000	0.1995	0.2005	10.0g	10.0001	9.9000	10.100	11/11/10	SV	QA-11	P
0.2g	0.1999	0.1995	0.2005	10.0g	10.0002	9.9000	10.100	11/12/10	ECF	QA-11	P
0.2	0.2001	0.1995	0.2005	10.0	10.0001	9.9000	10.100	11/15/10	ECF	QA-11	P
0.2000	0.1998	0.1995	0.2005	10.0	9.9997	9.9000	10.100	11/16/10	JZ	QA 011	P
0.2000	0.2001	0.1995	0.2005	10.0	10.0000	9.9000	10.100	11/17/10	ECF	QA-011	P
0.2000	0.2001	0.1995	0.2005	10.0	10.0000	9.9000	10.100	11/18/10	JZ	QA-011	P
0.2000	0.2002	0.1995	0.2005	10.0	10.0000	9.9000	10.100	11/19/10	JZ	QA 011	P
0.2g	0.2001	0.1995	0.2005	10.0g	10.0002	9.9000	10.100	11/22/10	SV	QA-11	P
0.2g	0.2001	0.1995	0.2005	10.0g	10.0000	9.9000	10.100	11/23/10	SV	QA-11	P
0.2g	0.2000	0.1995	0.2005	10.0g	10.0000	9.9000	10.1000	11/24/10	SV	QA-11	P
0.2g	0.2000	0.1995	0.2005	10.0g	10.0001	9.9000	10.1000	11/26/10	SV	QA-11	P
0.2g	0.2000	0.1995	0.2005	10.0g	9.9997	9.9000	10.1000	11/27/10	SV	QA-11	P
0.2g	0.2001	0.1995	0.2005	10.0g	9.9998	9.9000	10.1000	11/29/10	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.	

Reviewed 11/5/10 TR

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 Lower (g)	Acceptance limits*2 Upper (g)	Working WT Denomination (g)	OBSERVED WEIGHT (g)	Acceptance limits*2 Lower (g)	Acceptance limits*2 Upper (g)				
0.2000	0.2001	0.1995	0.2005	10.0000	9.9994	9.9000	10.1000	11/30/10	JZ	QA 011	P
0.2000	0.2002	0.1995	0.2005	10.0000	9.9995	9.9000	10.1000	12/1/10	JZ	QA 011	P
0.2000	0.2000	0.1995	0.2005	10.0000	9.9994	9.9000	10.1000	12/2/10	SV	QA-11	P
0.2000	0.2000	0.1995	0.2005	10.0000	9.9997	9.9000	10.1000	12/3/10	SV	QA-11	P
0.2000	0.2002	0.1995	0.2005	10.0000	10.0003	9.9000	10.1000	12/6/10	JZ	QA 011	P
0.2000	0.2001	0.1995	0.2005	10.0000	10.0001	9.9000	10.1000	12/7/10	JZ	QA 011	P
0.2000	0.2000	0.1995	0.2005	10.0000	10.0000	9.9000	10.1000	12/8/10	JZ	QA 011	P
0.2000	0.2000	0.1995	0.2005	10.0000	10.0001	9.9000	10.1000	12/9/10	JZ	QA 011	P
0.2000	0.2000	0.1995	0.2005	10.000	10.0001	9.900	10.100	12.13.10	SV	QA-11	P
0.2000	0.2002	0.1995	0.2005	10.0000	9.9998	9.9000	10.1000	12/14/10	JZ	QA 011	P
0.2000	0.2003	0.1995	0.2005	10.000	10.0006	9.900	10.100	12.15.10	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.	

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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
11/9/10	ECf	66	34	–	66	29	–	68	27	(2)	66	32	–	67	34	–	68	36	–	68	32	–	70	34
11/10/10	ECf	67	34	–	68	28	–	69	27	(2)	68	32	–	68	34	–	70	36	–	70	32	–	70	39
11/11/10	SV	65	32	–	66	29	–	67	27	(2)	66	33	–	66	34	–	68	36	–	68	32	–	68	33
11/12/10	ECf	65	33	–	66	29	–	67	28	–	66	33	–	66	34	–	68	35	–	68	32	–	68	33
11/15/10	ECf	65	32	–	69	29	–	70	27	(2)	68	33	–	69	37	–	70	35	–	70	32	–	70	39
11/16/10	TP	69	32	–	69	30	–	71	27	(2)	70	34	–	70	38	–	70	35	–	72	32	–	73	34
11/17/10	ECf	66	33	–	67	31	–	68	27	(2)	67	34	–	68	36	–	70	35	–	70	32	–	70	33
11/18/10	ECf	66	44	(1)	66	32	–	67	28	–	66	34	–	68	38	(1)	68	35	–	68	32	–	68	37
11/19/10	ECf	67	29	–	67	33	–	68	27	(2)	67	34	–	67	29	–	70	35	–	68	33	–	70	46
11/22/10	SV	65	29	–	66	34	–	67	28	–	66	34	–	66	29	–	68	35	–	68	32	–	68	35
11.23.10	SV	67	29	–	67	34	–	66	27	(2)	67	35	–	68	28	–	70	35	–	70	32	–	70	40
11.24.10	SV	65	29	–	65	33	–	67	28	–	66	33	–	66	29	–	66	34	–	68	32	–	68	24
11.26.10	SV	65	29	–	66	32	–	67	28	–	66	33	–	67	29	–	68	37	–	68	32		68	25
11.27.10	SV	65	29		65	33	–	67	28		65	33	–	66	29	–	68	33	–	68	32	–	68	33
11.29.10	SV	65	29	–	66	33	–	67	28	–	66	33		66	29	–	68	33	–	68	32	–	68	27

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

Reviewed 11/15/10 TP

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
11-30-10	RV	65	30	-	65	33	-	67	28	-	66	33	-	66	29	-	68	33	-	68	32	-	68	29
12/1/10	ECF	64	31	—	65	33	—	66	29	—	65	33	—	66	31	—	68	33	—	68	32	—	68	30
12/2/10	ECF	64	31	—	65	33	—	66	28	—	65	33	—	65	32	—	68	33	—	68	32	—	68	32
12-3-10	RV	67	31	—	68	33	-	69	27	(2)	67	34	-	68	32	-	70	33	—	70	32	-	70	36
12/6/10	ECF	67	32	—	68	37	—	69	30	—	68	36	—	68	35	—	70	34	—	70	32	—	70	47
12/7/10	ECF	66	34	—	67	36	—	68	30	—	67	36	—	67	34	—	70	34	—	68	32	—	70	38
12/8/10	ECF	68	33	—	68	38	(+)	69	31	—	68	37	(+)	68	34	—	70	34	—	70	32	—	70	43
12/9/10	ECF	69	31	—	69	28	—	70	32	—	69	28	—	70	37	—	72	35	—	72	32	—	72	48
12/10/10	RV	68	31	-	69	28	-	70	34	-	69	28	-	69	30	(-1)	70	35	-	70	31	—	72	47
12/14/10	ECF	69	32	—	69	28	—	70	33	—	69	28	—	70	28	—	72	35	—	~~72~~ 70	~~33~~ 32 12/14/10	—	72	44
12/15/10	ECF	66	32	—	67	31	—	68	33	—	67	29	—	67	29	—	70	35	—	68	33	—	70	36

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

Requested By: VALMORES

Batch	Lot/Sample ID	Analysis Code	W/O#	Group	Message
0349408					Release Requested
0349408					Successfully Released