TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

December 15, 2010

TestAmerica Project Number: G0L020446
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 2, 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 G0L020446

Case Narrative

TestAmerica West Sacramento Project Number G0L020446

AIR, TO-13, Semivolatile Organics
Sample(s): 2, 9
The surrogate recovery for 1,2-Dichlorobenzene-d4 is low and outside criteria. However, the surrogate recoveries in the associated method blank and laboratory control sample (LCS) were within established control limits. The results may be low. The surrogate recovery was confirmed by re-analysis.

AIR, TO-9, Dioxins/Furans
Sample(s): 1, 5, 8
Several analytes in each sample and the associated method blank 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.

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 G0L020446

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
MAQQV	1	UW-11292010B	11/29/2010 07:22 PM	12/2/2010 09:00 AM
MAQQW	2	UW-11292010B	11/29/2010 07:22 PM	12/2/2010 09:00 AM
MAQQ1	3	UW-11292010B	11/29/2010 07:22 PM	12/2/2010 09:00 AM
MAQQ4	4	DW-11292010B	11/29/2010 08:17 PM	12/2/2010 09:00 AM
MAQQ6	5	UW-11302010B	11/30/2010 05:27 PM	12/2/2010 09:00 AM
MAQQ9	6	UW-11302010B	11/30/2010 05:29 PM	12/2/2010 09:00 AM
MAQRA	7	UW-11302010B	11/30/2010 05:26 PM	12/2/2010 09:00 AM
MAQRD	8	DW-11302010B	11/30/2010 05:44 PM	12/2/2010 09:00 AM
MAQRF	9	DW-11302010B	11/30/2010 05:45 PM	12/2/2010 09:00 AM
MAQRH	10	DW-11302010B	11/30/2010 05:47 PM	12/2/2010 09:00 AM

Notes(s):

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

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.

COC # 2027.07.0018

Total # of Samples: 4 Event Complete?

Regular | Rush | 5 day | Mark One

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	(510) 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		

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/Dioxins, Furans	TO-13A/8270/DCHCB	TSP	6020/As/Mn/ICPMS	Filtered	Preservative
	UW-11292010B		AA			11/29/2010	7:22 PM	1	348.34	X					
	UW-11292010B		AA			11/29/2010	7.22 PM	1	726 94		X				
	UW-11292010B		AA			11/29/2010	7 22 PM	1	1081 47			X	X		
	DW-11292010B		AA			11/29/2010	8.17 PM	1	1107.96			X	X		
	USED MEDIA		AA					3	PLEASE DISCARD						
	UW-11302010B		AA			11/30/2010	5:27 PM	1	626 43	X					
	UW-11302010B		AA			11/30/2010	5:29 PM	1	641.91		X				
	UW-11302010B		AA			11/30/2010	5:26 PM	1	943.37			X	X		
	DW-11302010B		AA			11/30/2010	5:44 PM	1	393.08	X					
	DW-11302010B		AA			11/30/2010	5:45 PM	1	642.84		X				
	DW-11302010B		AA			11/30/2010	5:47 PM	1	934.22			X	X		

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

Ronda S. Bailey	12/1/10	1500	Chang Vu TAL-US	12/2/10	0910	3C

Sample Receipt Conditions

Temp in QC	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

SHIPPING INFO

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ronda Bailey

SIGNATURE of SAMPLER: DATE Signed: 12/1/10 Time: 1500

TestAmerica

411111 THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT Northgate PM DA LOG # 68359

LOT# (QUANTIMS ID) 60L020446 QUOTE# 84087 LOCATION N14D AC

Checked (✓)

DATE RECEIVED 12/2/10 TIME RECEIVED 0900 ☑

DELIVERED BY ☒ FEDEX ☐ ON TRAC ☐ CLIENT

☐ GOLDENSTATE ☐ UPS ☐ GO-GETTERS ☐ OTHER

☐ TAL COURIER ☐ TAL SF ☐ VALLEY LOGISTICS ☑

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

CUSTODY SEAL #(S) NA

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

COC #(S) 2027.07.0018 ☑

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 ☒

CV 12/2/10
Initials Date

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pH MEASURED ☐ YES ☐ ANOMALY ☒ N/A ☑

LABELED BY ☑

LABELS CHECKED BY ☑

PEER REVIEW ☒ NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING ☑

WETCHEM ☒ N/A ☑

VOA-ENCORES ☒ N/A ☑

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

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

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

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

CV 12/2/10
Initials Date

Notes

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: GOL020446

	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			1	1			1			1										
PUF	1	1			1	1		1	1											
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-11292010B

Trace Level Compounds

Lot - Sample #....:	G0L020446 - 002	**Work Order #....:**	MAQQW1AA	**Matrix....:**	AA
Date Sampled....:	11/29/10	**Date Received....:**	12/02/10	**Dilution Factor....:**	1
Prep Date....:	12/02/10	**Analysis Date....:**	12/07/10	**Volume....:**	726.94
Prep Batch # ....:	0336447	**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	0.014	0.0018	ug/m3

SURROGATE	PERCENT RECOVERY		RECOVERY LIMITS
1,2-Dichlorobenzene-d4	53	*	60 - 120
2-Fluorobiphenyl	74		58 - 105
2-Fluorophenol	65		41 - 105
Nitrobenzene-d5	74		46 - 118
Phenol-d5	75		43 - 122
Terphenyl-d14	95		69 - 110
2,4,6-Tribromophenol	103		61 - 118

QUALIFIERS

* Surrogate recovery is outside stated control limits.

Northgate Environmental Management, Inc.

Sample ID: UW-11302010B

Trace Level Compounds

Lot - Sample #....:	G0L020446 - 006	**Work Order #....:**	MAQQ91AA	**Matrix....:**	AA
Date Sampled....:	11/30/10	**Date Received....:**	12/02/10	**Dilution Factor....:**	1
Prep Date....:	12/02/10	**Analysis Date....:**	12/07/10	**Volume....:**	641.91
Prep Batch # ....:	0336447	**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	0.0020	ug/m3

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichlorobenzene-d4	61	60 - 120
2-Fluorobiphenyl	81	58 - 105
2-Fluorophenol	69	41 - 105
Nitrobenzene-d5	76	46 - 118
Phenol-d5	80	43 - 122
Terphenyl-d14	97	69 - 110
2,4,6-Tribromophenol	112	61 - 118

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: DW-11302010B

Trace Level Compounds

Lot - Sample #....:	G0L020446 - 009	**Work Order #....:**	MAQRF1AA	**Matrix....:**	AA
Date Sampled....:	11/30/10	**Date Received....:**	12/02/10	**Dilution Factor....:**	1
Prep Date....:	12/02/10	**Analysis Date....:**	12/08/10	**Volume....:**	642.84
Prep Batch # ....:	0336447	**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	0.0020	ug/m3

SURROGATE	PERCENT RECOVERY		RECOVERY LIMITS
1,2-Dichlorobenzene-d4	59	*	60 - 120
2-Fluorobiphenyl	85		58 - 105
2-Fluorophenol	69		41 - 105
Nitrobenzene-d5	79		46 - 118
Phenol-d5	78		43 - 122
Terphenyl-d14	103		69 - 110
2,4,6-Tribromophenol	109		61 - 118

QUALIFIERS

* Surrogate recovery is outside stated control limits.

QC DATA ASSOCIATION SUMMARY

G0L020446

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
002	AA	EPA-2 TO-13		0336447	
006	AA	EPA-2 TO-13		0336447	
009	AA	EPA-2 TO-13		0336447	

Method Blank Report

Trace Level Compounds

Lot - Sample #....:	G0L020000 - 447B	**Work Order #....:**	MAR231AA	**Matrix....:**	AIR
Date Sampled....:	11/29/10	**Date Received....:**	12/02/10	**Dilution Factor....:**	1
Prep Date....:	12/02/10	**Analysis Date....:**	12/07/10	**Volume....:**	0
Prep Batch # ....:	0336447	**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	68	60 - 120
2-Fluorobiphenyl	84	58 - 105
2-Fluorophenol	72	41 - 105
Nitrobenzene-d5	79	46 - 118
Phenol-d5	81	43 - 122
Terphenyl-d14	95	69 - 110
2,4,6-Tribromophenol	100	61 - 118

QUALIFIERS

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...:	G0L020446	**Work Order # ...:**	MAR231AC-LCS MAR231AD-LCSD	**Matrix .....:**	AIR
LCS Lot-Sample# :	G0L020000 - 447				
Prep Date .....:	12/02/10	**Analysis Date ..:**	12/07/10		
Prep Batch # ...:	0336447				
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**	**96.8**	**ug**	**97**	**(70 - 110)**		
	100	**99.1**	**ug**	**99**	**(70 - 110)**	**2.3**	**(0 - 30)**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	92	(58 - 105)
	97	(58 - 105)
2-Fluorophenol	77	(41 - 105)
	81	(41 - 105)
Nitrobenzene-d5	90	(46 - 118)
	93	(46 - 118)
Phenol-d5	83	(43 - 122)
	84	(43 - 122)
Terphenyl-d14	96	(69 - 110)
	94	(69 - 110)
2,4,6-Tribromophenol	110	(61 - 118)
	109	(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-11292010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0L020446 - 001	**Work Order #....:**	MAQQV1AA	**Matrix....:**	AA
Date Sampled....:	11/29/10	**Date Received....:**	12/02/10	**Instrument ID....:**	4D5
Prep Date....:	12/03/10	**Analysis Date....:**	12/07/10	**Volume....:**	348.34
Prep Batch # ....:	0337382	**Dilution Factor....:**	2	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Mark Onishi		

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	ND		100	0.01	0
Total HpCDD	ND		100		0
OCDD	**19**	**J Q B**	**200**	**0.0003**	**0.000016**
2,3,7,8-TCDF	ND		20	0.1	0
Total TCDF	ND		20		0
1,2,3,7,8-PeCDF	ND		100	0.03	0
2,3,4,7,8-PeCDF	ND		100	0.3	0
Total PeCDF	ND		100		0
1,2,3,4,7,8-HxCDF	**6.2**	**J**	**100**	**0.1**	**0.0018**
1,2,3,6,7,8-HxCDF	**2.9**	**J Q**	**100**	**0.1**	**0.00083**
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	**18**		**100**		
1,2,3,4,6,7,8-HpCDF	**15**	**J Q B**	**100**	**0.01**	**0.00043**
1,2,3,4,7,8,9-HpCDF	**4.6**	**J**	**100**	**0.01**	**0.00013**
Total HpCDF	**29**		**100**		
OCDF	**71**	**J**	**200**	**0.0003**	**0.000061**
Total TEQ Concentration					**0.0033**

Northgate Environmental Management, Inc.

Sample ID: UW-11292010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0L020446 - 001	**Work Order #....:**	MAQQV1AA	**Matrix....:**	AA
Date Sampled....:	11/29/10	**Date Received....:**	12/02/10	**Instrument ID....:**	4D5
Prep Date....:	12/03/10	**Analysis Date....:**	12/07/10	**Volume....:**	348.34
Prep Batch # ....:	0337382	**Dilution Factor....:**	2	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Mark Onishi		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	99	50 - 120
13C-1,2,3,7,8-PeCDD	86	50 - 120
13C-1,2,3,6,7,8-HxCDD	96	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	84	40 - 120
13C-OCDD	82	40 - 120
13C-2,3,7,8-TCDF	94	50 - 120
13C-1,2,3,7,8-PeCDF	98	50 - 120
13C-1,2,3,4,7,8-HxCDF	80	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	82	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	101	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: UW-11292010B

Trace Level Compounds

Lot - Sample #....:	G0L020446 - 001	**Work Order #....:**	MAQQV1AA	**Matrix....:**	AA
Date Sampled....:	11/29/10	**Date Received....:**	12/02/10	**Dilution Factor....:**	2
Prep Date....:	12/03/10	**Analysis Date....:**	12/07/10	**Volume....:**	348.34
Prep Batch # ....:	0337382	**Instrument ID....:**	4D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Mark Onishi		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		0.057	0.0075	pg/m3
Total TCDD	ND		0.057	0.0075	pg/m3
1,2,3,7,8-PeCDD	ND		0.29	0.017	pg/m3
Total PeCDD	ND		0.29	0.017	pg/m3
1,2,3,4,7,8-HxCDD	ND		0.29	0.0078	pg/m3
1,2,3,6,7,8-HxCDD	ND		0.29	0.0069	pg/m3
1,2,3,7,8,9-HxCDD	ND		0.29	0.0069	pg/m3
Total HxCDD	ND		0.29	0.0078	pg/m3
1,2,3,4,6,7,8-HpCDD	ND		0.29	0.015	pg/m3
Total HpCDD	ND		0.29	0.015	pg/m3
OCDD	**0.054**	**J Q B**	**0.57**	**0.0098**	**pg/m3**
2,3,7,8-TCDF	ND		0.057	0.011	pg/m3
Total TCDF	ND		0.057	0.011	pg/m3
1,2,3,7,8-PeCDF	ND		0.29	0.012	pg/m3
2,3,4,7,8-PeCDF	ND		0.29	0.012	pg/m3
Total PeCDF	ND		0.29	0.012	pg/m3
1,2,3,4,7,8-HxCDF	**0.018**	**J**	**0.29**	**0.0052**	**pg/m3**
1,2,3,6,7,8-HxCDF	**0.0084**	**J Q**	**0.29**	**0.0049**	**pg/m3**
2,3,4,6,7,8-HxCDF	ND		0.29	0.0052	pg/m3
1,2,3,7,8,9-HxCDF	ND		0.29	0.0057	pg/m3
Total HxCDF	**0.050**		**0.29**	**0.0057**	**pg/m3**
1,2,3,4,6,7,8-HpCDF	**0.042**	**J Q B**	**0.29**	**0.0055**	**pg/m3**
1,2,3,4,7,8,9-HpCDF	**0.013**	**J**	**0.29**	**0.0066**	**pg/m3**
Total HpCDF	**0.082**		**0.29**	**0.0060**	**pg/m3**
OCDF	**0.20**	**J**	**0.57**	**0.011**	**pg/m3**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	99	50 - 120
13C-1,2,3,7,8-PeCDD	86	50 - 120
13C-1,2,3,6,7,8-HxCDD	96	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	84	40 - 120
13C-OCDD	82	40 - 120
13C-2,3,7,8-TCDF	94	50 - 120
13C-1,2,3,7,8-PeCDF	98	50 - 120
13C-1,2,3,4,7,8-HxCDF	80	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	82	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	101	50 - 120

Northgate Environmental Management, Inc.

Sample ID: UW-11292010B

Trace Level Compounds

Lot - Sample #....:	G0L020446 - 001	**Work Order #....:**	MAQQV1AA	**Matrix....:**	AA
Date Sampled....:	11/29/10	**Date Received....:**	12/02/10	**Dilution Factor....:**	2
Prep Date....:	12/03/10	**Analysis Date....:**	12/07/10	**Volume....:**	348.34
Prep Batch # ....:	0337382	**Instrument ID....:**	4D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Mark Onishi		

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-11302010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0L020446 - 005	**Work Order #....:**	MAQQ61AA	**Matrix....:**	AA
Date Sampled....:	11/30/10	**Date Received....:**	12/02/10	**Instrument ID....:**	4D5
Prep Date....:	12/03/10	**Analysis Date....:**	12/07/10	**Volume....:**	626.43
Prep Batch # ....:	0337382	**Dilution Factor....:**	2	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Mark Onishi		

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	**5.2**	**J Q**	**100**	**0.01**	**0.000083**
Total HpCDD	**12**		**100**		
OCDD	**28**	**J B**	**200**	**0.0003**	**0.000013**
2,3,7,8-TCDF	ND		20	0.1	0
Total TCDF	ND		20		0
1,2,3,7,8-PeCDF	ND		100	0.03	0
2,3,4,7,8-PeCDF	ND		100	0.3	0
Total PeCDF	ND		100		0
1,2,3,4,7,8-HxCDF	**9.7**	**J**	**100**	**0.1**	**0.0015**
1,2,3,6,7,8-HxCDF	**6.0**	**J**	**100**	**0.1**	**0.00096**
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	**29**		**100**		
1,2,3,4,6,7,8-HpCDF	**25**	**J Q B**	**100**	**0.01**	**0.00040**
1,2,3,4,7,8,9-HpCDF	**6.6**	**J Q**	**100**	**0.01**	**0.00011**
Total HpCDF	**45**		**100**		
OCDF	**61**	**J**	**200**	**0.0003**	**0.000029**
Total TEQ Concentration					**0.0031**

Northgate Environmental Management, Inc.

Sample ID: UW-11302010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0L020446 - 005	**Work Order #....:**	MAQQ61AA	**Matrix....:**	AA
Date Sampled....:	11/30/10	**Date Received....:**	12/02/10	**Instrument ID....:**	4D5
Prep Date....:	12/03/10	**Analysis Date....:**	12/07/10	**Volume....:**	626.43
Prep Batch # ....:	0337382	**Dilution Factor....:**	2	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Mark Onishi		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	98	50 - 120
13C-1,2,3,7,8-PeCDD	106	50 - 120
13C-1,2,3,6,7,8-HxCDD	102	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	74	40 - 120
13C-OCDD	76	40 - 120
13C-2,3,7,8-TCDF	91	50 - 120
13C-1,2,3,7,8-PeCDF	118	50 - 120
13C-1,2,3,4,7,8-HxCDF	83	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	75	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	101	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: UW-11302010B

Trace Level Compounds

Lot - Sample #....:	G0L020446 - 005	**Work Order #....:**	MAQQ61AA	**Matrix....:**	AA
Date Sampled....:	11/30/10	**Date Received....:**	12/02/10	**Dilution Factor....:**	2
Prep Date....:	12/03/10	**Analysis Date....:**	12/07/10	**Volume....:**	626.43
Prep Batch # ....:	0337382	**Instrument ID....:**	4D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Mark Onishi		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		0.032	0.0091	pg/m3
Total TCDD	ND		0.032	0.0091	pg/m3
1,2,3,7,8-PeCDD	ND		0.16	0.022	pg/m3
Total PeCDD	ND		0.16	0.022	pg/m3
1,2,3,4,7,8-HxCDD	ND		0.16	0.0067	pg/m3
1,2,3,6,7,8-HxCDD	ND		0.16	0.0059	pg/m3
1,2,3,7,8,9-HxCDD	ND		0.16	0.0059	pg/m3
Total HxCDD	ND		0.16	0.0067	pg/m3
1,2,3,4,6,7,8-HpCDD	**0.0084**	**J Q**	**0.16**	**0.0072**	**pg/m3**
Total HpCDD	**0.019**		**0.16**	**0.0072**	**pg/m3**
OCDD	**0.045**	**J B**	**0.32**	**0.0077**	**pg/m3**
2,3,7,8-TCDF	ND		0.032	0.012	pg/m3
Total TCDF	ND		0.032	0.012	pg/m3
1,2,3,7,8-PeCDF	ND		0.16	0.015	pg/m3
2,3,4,7,8-PeCDF	ND		0.16	0.015	pg/m3
Total PeCDF	ND		0.16	0.015	pg/m3
1,2,3,4,7,8-HxCDF	**0.016**	**J**	**0.16**	**0.0056**	**pg/m3**
1,2,3,6,7,8-HxCDF	**0.0096**	**J**	**0.16**	**0.0054**	**pg/m3**
2,3,4,6,7,8-HxCDF	ND		0.16	0.0056	pg/m3
1,2,3,7,8,9-HxCDF	ND		0.16	0.0062	pg/m3
Total HxCDF	**0.046**		**0.16**	**0.0062**	**pg/m3**
1,2,3,4,6,7,8-HpCDF	**0.040**	**J Q B**	**0.16**	**0.0048**	**pg/m3**
1,2,3,4,7,8,9-HpCDF	**0.011**	**J Q**	**0.16**	**0.0057**	**pg/m3**
Total HpCDF	**0.071**		**0.16**	**0.0057**	**pg/m3**
OCDF	**0.098**	**J**	**0.32**	**0.0070**	**pg/m3**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	98	50 - 120
13C-1,2,3,7,8-PeCDD	106	50 - 120
13C-1,2,3,6,7,8-HxCDD	102	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	74	40 - 120
13C-OCDD	76	40 - 120
13C-2,3,7,8-TCDF	91	50 - 120
13C-1,2,3,7,8-PeCDF	118	50 - 120
13C-1,2,3,4,7,8-HxCDF	83	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	75	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	101	50 - 120

Northgate Environmental Management, Inc.

Sample ID: UW-11302010B

Trace Level Compounds

Lot - Sample #....:	G0L020446 - 005	**Work Order #....:**	MAQQ61AA	**Matrix....:**	AA
Date Sampled....:	11/30/10	**Date Received....:**	12/02/10	**Dilution Factor....:**	2
Prep Date....:	12/03/10	**Analysis Date....:**	12/07/10	**Volume....:**	626.43
Prep Batch # ....:	0337382	**Instrument ID....:**	4D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Mark Onishi		

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-11302010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0L020446 - 008	**Work Order #....:**	MAQRD1AA	**Matrix....:**	AA
Date Sampled....:	11/30/10	**Date Received....:**	12/02/10	**Instrument ID....:**	4D5
Prep Date....:	12/03/10	**Analysis Date....:**	12/08/10	**Volume....:**	393.08
Prep Batch # ....:	0337382	**Dilution Factor....:**	2	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Mark Onishi		

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	**10**	**J**	**100**	**0.01**	**0.00025**
Total HpCDD	**17**		**100**		
OCDD	**25**	**J B**	**200**	**0.0003**	**0.000019**
2,3,7,8-TCDF	**16**	**J**	**20**	**0.1**	**0.0041**
Total TCDF	**39**		**20**		
1,2,3,7,8-PeCDF	**16**	**J**	**100**	**0.03**	**0.0012**
2,3,4,7,8-PeCDF	**9.6**	**J**	**100**	**0.3**	**0.0073**
Total PeCDF	**50**		**100**		
1,2,3,4,7,8-HxCDF	**42**	**J**	**100**	**0.1**	**0.011**
1,2,3,6,7,8-HxCDF	**22**	**J Q**	**100**	**0.1**	**0.0056**
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	**160**		**100**		
1,2,3,4,6,7,8-HpCDF	**100**	**B**	**100**	**0.01**	**0.0025**
1,2,3,4,7,8,9-HpCDF	**32**	**J**	**100**	**0.01**	**0.00081**
Total HpCDF	**200**		**100**		
OCDF	**200**	**J**	**200**	**0.0003**	**0.00015**
Total TEQ Concentration					**0.033**

Northgate Environmental Management, Inc.

Sample ID: DW-11302010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0L020446 - 008	**Work Order #....:**	MAQRD1AA	**Matrix....:**	AA
Date Sampled....:	11/30/10	**Date Received....:**	12/02/10	**Instrument ID....:**	4D5
Prep Date....:	12/03/10	**Analysis Date....:**	12/08/10	**Volume....:**	393.08
Prep Batch # ....:	0337382	**Dilution Factor....:**	2	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Mark Onishi		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	97	50 - 120
13C-1,2,3,7,8-PeCDD	98	50 - 120
13C-1,2,3,6,7,8-HxCDD	97	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	84	40 - 120
13C-OCDD	84	40 - 120
13C-2,3,7,8-TCDF	94	50 - 120
13C-1,2,3,7,8-PeCDF	105	50 - 120
13C-1,2,3,4,7,8-HxCDF	87	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	84	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	100	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-11302010B

Trace Level Compounds

Lot - Sample #....:	G0L020446 - 008	**Work Order #....:**	MAQRD1AA	**Matrix....:**	AA
Date Sampled....:	11/30/10	**Date Received....:**	12/02/10	**Dilution Factor....:**	2
Prep Date....:	12/03/10	**Analysis Date....:**	12/08/10	**Volume....:**	393.08
Prep Batch # ....:	0337382	**Instrument ID....:**	4D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Mark Onishi		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		0.051	0.017	pg/m3
Total TCDD	ND		0.051	0.017	pg/m3
1,2,3,7,8-PeCDD	ND		0.25	0.031	pg/m3
Total PeCDD	ND		0.25	0.031	pg/m3
1,2,3,4,7,8-HxCDD	ND		0.25	0.016	pg/m3
1,2,3,6,7,8-HxCDD	ND		0.25	0.014	pg/m3
1,2,3,7,8,9-HxCDD	ND		0.25	0.013	pg/m3
Total HxCDD	ND		0.25	0.016	pg/m3
1,2,3,4,6,7,8-HpCDD	**0.026**	**J**	**0.25**	**0.011**	**pg/m3**
Total HpCDD	**0.042**		**0.25**	**0.011**	**pg/m3**
OCDD	**0.062**	**J B**	**0.51**	**0.010**	**pg/m3**
2,3,7,8-TCDF	**0.040**	**J**	**0.051**	**0.019**	**pg/m3**
Total TCDF	**0.098**		**0.051**	**0.019**	**pg/m3**
1,2,3,7,8-PeCDF	**0.041**	**J**	**0.25**	**0.019**	**pg/m3**
2,3,4,7,8-PeCDF	**0.025**	**J**	**0.25**	**0.019**	**pg/m3**
Total PeCDF	**0.13**		**0.25**	**0.019**	**pg/m3**
1,2,3,4,7,8-HxCDF	**0.11**	**J**	**0.25**	**0.015**	**pg/m3**
1,2,3,6,7,8-HxCDF	**0.056**	**J Q**	**0.25**	**0.014**	**pg/m3**
2,3,4,6,7,8-HxCDF	ND		0.25	0.015	pg/m3
1,2,3,7,8,9-HxCDF	ND		0.25	0.017	pg/m3
Total HxCDF	**0.42**		**0.25**	**0.016**	**pg/m3**
1,2,3,4,6,7,8-HpCDF	**0.27**	**B**	**0.25**	**0.0089**	**pg/m3**
1,2,3,4,7,8,9-HpCDF	**0.081**	**J**	**0.25**	**0.011**	**pg/m3**
Total HpCDF	**0.50**		**0.25**	**0.011**	**pg/m3**
OCDF	**0.51**	**J**	**0.51**	**0.016**	**pg/m3**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	97	50 - 120
13C-1,2,3,7,8-PeCDD	98	50 - 120
13C-1,2,3,6,7,8-HxCDD	97	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	84	40 - 120
13C-OCDD	84	40 - 120
13C-2,3,7,8-TCDF	94	50 - 120
13C-1,2,3,7,8-PeCDF	105	50 - 120
13C-1,2,3,4,7,8-HxCDF	87	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	84	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	100	50 - 120

Northgate Environmental Management, Inc.

Sample ID: DW-11302010B

Trace Level Compounds

Lot - Sample #....:	G0L020446 - 008	**Work Order #....:**	MAQRD1AA	**Matrix....:**	AA
Date Sampled....:	11/30/10	**Date Received....:**	12/02/10	**Dilution Factor....:**	2
Prep Date....:	12/03/10	**Analysis Date....:**	12/08/10	**Volume....:**	393.08
Prep Batch # ....:	0337382	**Instrument ID....:**	4D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Mark Onishi		

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).

QC DATA ASSOCIATION SUMMARY

G0L020446

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AA	EPA-2 TO-9		0337382	
002	AA	EPA-2 TO-13		0336447	
003	AA	CFR50B APDX B		0341297	
	AA	SW846 6020		0341211	
004	AA	CFR50B APDX B		0341297	
	AA	SW846 6020		0341211	
005	AA	EPA-2 TO-9		0337382	
006	AA	EPA-2 TO-13		0336447	
007	AA	CFR50B APDX B		0341297	
	AA	SW846 6020		0341211	
008	AA	EPA-2 TO-9		0337382	
009	AA	EPA-2 TO-13		0336447	
010	AA	CFR50B APDX B		0341297	
	AA	SW846 6020		0341211	

Method Blank Report

Trace Level Compounds

Lot - Sample #....:	G0L030000 - 382B	**Work Order #....:**	MAVWM1AA	**Matrix....:**	AIR
Date Sampled....:	11/29/10	**Date Received....:**	12/02/10	**Dilution Factor....:**	2
Prep Date....:	12/03/10	**Analysis Date....:**	12/07/10	**Volume....:**	0
Prep Batch # ....:	0337382	**Instrument ID....:**	4D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Mark Onishi		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		20	1.9	pg
Total TCDD	ND		20	1.9	pg
1,2,3,7,8-PeCDD	ND		100	3.6	pg
Total PeCDD	ND		100	3.6	pg
1,2,3,4,7,8-HxCDD	ND		100	2.1	pg
1,2,3,6,7,8-HxCDD	ND		100	1.8	pg
1,2,3,7,8,9-HxCDD	ND		100	1.8	pg
Total HxCDD	ND		100	2.1	pg
1,2,3,4,6,7,8-HpCDD	ND		100	2.7	pg
Total HpCDD	**2.8**		**100**	**2.7**	**pg**
OCDD	**20**	**J**	**200**	**3.3**	**pg**
2,3,7,8-TCDF	ND		20	5.2	pg
Total TCDF	ND		20	5.2	pg
1,2,3,7,8-PeCDF	ND		100	2.0	pg
2,3,4,7,8-PeCDF	ND		100	2.1	pg
Total PeCDF	ND		100	2.2	pg
1,2,3,4,7,8-HxCDF	ND		100	1.3	pg
1,2,3,6,7,8-HxCDF	ND		100	1.3	pg
2,3,4,6,7,8-HxCDF	ND		100	1.3	pg
1,2,3,7,8,9-HxCDF	ND		100	1.5	pg
Total HxCDF	ND		100	1.5	pg
1,2,3,4,6,7,8-HpCDF	**2.9**	**J Q**	**100**	**2.0**	**pg**
1,2,3,4,7,8,9-HpCDF	ND		100	2.4	pg
Total HpCDF	**2.9**		**100**	**2.2**	**pg**
OCDF	ND		200	3.5	pg

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	95	50 - 120
13C-1,2,3,7,8-PeCDD	97	50 - 120
13C-1,2,3,6,7,8-HxCDD	99	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	82	40 - 120
13C-OCDD	77	40 - 120
13C-2,3,7,8-TCDF	92	50 - 120
13C-1,2,3,7,8-PeCDF	102	50 - 120
13C-1,2,3,4,7,8-HxCDF	87	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	81	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	102	50 - 120

Method Blank Report

Trace Level Compounds

Lot - Sample #....:	G0L030000 - 382B	**Work Order #....:**	MAVWM1AA	**Matrix....:**	AIR
Date Sampled....:	11/29/10	**Date Received....:**	12/02/10	**Dilution Factor....:**	2
Prep Date....:	12/03/10	**Analysis Date....:**	12/07/10	**Volume....:**	0
Prep Batch # ....:	0337382	**Instrument ID....:**	4D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Mark Onishi		

QUALIFIERS

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...:	G0L020446	**Work Order # ...:**	MAVWM1AC-LCS MAVWM1AD-LCSD	**Matrix .....:**	AIR
LCS Lot-Sample# :	G0L030000 - 382				
Prep Date .....:	12/03/10	**Analysis Date ..:**	12/07/10		
Prep Batch # ...:	0337382				
Dilution Factor :	2				
Analyst ID.....:	Mark Onishi	**Instrument ID..:**	4D5	**Method.....:**	EPA-2 TO-9
Initial Wgt/Vol:	1 Sample				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
2,3,7,8-TCDD	**400**	**433**	**pg**	**108**	**(70 - 130)**		
	400	**426**	**pg**	**107**	**(70 - 130)**	**1.7**	**(0 - 30)**
1,2,3,7,8-PeCDD	**2000**	**2250**	**pg**	**113**	**(70 - 130)**		
	2000	**2210**	**pg**	**111**	**(70 - 130)**	**1.7**	**(0 - 30)**
1,2,3,4,7,8-HxCDD	**2000**	**1890**	**pg**	**94**	**(70 - 130)**		
	2000	**1860**	**pg**	**93**	**(70 - 130)**	**1.6**	**(0 - 30)**
1,2,3,6,7,8-HxCDD	**2000**	**2240**	**pg**	**112**	**(70 - 130)**		
	2000	**2130**	**pg**	**107**	**(70 - 130)**	**4.9**	**(0 - 30)**
1,2,3,7,8,9-HxCDD	**2000**	**2130**	**pg**	**107**	**(70 - 130)**		
	2000	**1980**	**pg**	**99**	**(70 - 130)**	**7.2**	**(0 - 30)**
1,2,3,4,6,7,8-HpCDD	**2000**	**2050**	**pg**	**103**	**(70 - 130)**		
	2000	**2040**	**pg**	**102**	**(70 - 130)**	**0.38**	**(0 - 30)**
OCDD	**4000**	**4060**	**pg**	**102**	**(70 - 130)**		
	4000	**4010**	**pg**	**100**	**(70 - 130)**	**1.2**	**(0 - 30)**
2,3,7,8-TCDF	**400**	**417**	**pg**	**104**	**(70 - 130)**		
	400	**423**	**pg**	**106**	**(70 - 130)**	**1.3**	**(0 - 30)**
1,2,3,7,8-PeCDF	**2000**	**2080**	**pg**	**104**	**(70 - 130)**		
	2000	**2050**	**pg**	**103**	**(70 - 130)**	**1.2**	**(0 - 30)**
2,3,4,7,8-PeCDF	**2000**	**2030**	**pg**	**101**	**(70 - 130)**		
	2000	**1980**	**pg**	**99**	**(70 - 130)**	**2.1**	**(0 - 30)**
1,2,3,4,7,8-HxCDF	**2000**	**2190**	**pg**	**109**	**(70 - 130)**		
	2000	**2120**	**pg**	**106**	**(70 - 130)**	**3.2**	**(0 - 30)**
1,2,3,6,7,8-HxCDF	**2000**	**1950**	**pg**	**98**	**(70 - 130)**		
	2000	**1970**	**pg**	**98**	**(70 - 130)**	**0.87**	**(0 - 30)**
2,3,4,6,7,8-HxCDF	**2000**	**2240**	**pg**	**112**	**(70 - 130)**		
	2000	**2230**	**pg**	**112**	**(70 - 130)**	**0.52**	**(0 - 30)**
1,2,3,7,8,9-HxCDF	**2000**	**2230**	**pg**	**111**	**(70 - 130)**		
	2000	**2190**	**pg**	**110**	**(70 - 130)**	**1.6**	**(0 - 30)**
1,2,3,4,6,7,8-HpCDF	**2000**	**2240**	**pg**	**112**	**(70 - 130)**		
	2000	**2200**	**pg**	**110**	**(70 - 130)**	**1.6**	**(0 - 30)**
1,2,3,4,7,8,9-HpCDF	**2000**	**2380**	**pg**	**119**	**(70 - 130)**		
	2000	**2300**	**pg**	**115**	**(70 - 130)**	**3.2**	**(0 - 30)**
OCDF	**4000**	**4230**	**pg**	**106**	**(70 - 130)**		
	4000	**4200**	**pg**	**105**	**(70 - 130)**	**0.78**	**(0 - 30)**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	101	(50 - 120)
	100	(50 - 120)
13C-1,2,3,7,8-PeCDD	110	(50 - 120)
	108	(50 - 120)
13C-1,2,3,6,7,8-HxCDD	99	(50 - 120)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...: G0L020446 **Work Order # ...:** MAVWM1AC-LCS **Matrix .....:** AIR
LCS Lot-Sample# : G0L030000 - 382 MAVWM1AD-LCSD

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
	105	(50 - 120)
13C-1,2,3,4,6,7,8-HpCDD	91	(40 - 120)
	87	(40 - 120)
13C-OCDD	96	(40 - 120)
	88	(40 - 120)
13C-2,3,7,8-TCDF	98	(50 - 120)
	97	(50 - 120)
13C-1,2,3,7,8-PeCDF	117	(50 - 120)
	113	(50 - 120)
13C-1,2,3,4,7,8-HxCDF	89	(50 - 120)
	93	(50 - 120)
13C-1,2,3,4,6,7,8-HpCDF	87	(40 - 120)
	86	(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-11292010B

Trace Level Compounds

Lot - Sample #....:	G0L020446 - 003	**Work Order #....:**	MAQQ11AC	**Matrix....:**	AA
Date Sampled....:	11/29/10	**Date Received....:**	12/02/10	**Dilution Factor....:**	1
Prep Date....:	12/07/10	**Analysis Date....:**	12/07/10	**Volume....:**	1081.47
Prep Batch # ....:	0341211	**Instrument ID....:**	M02	**Method....:**	SW846 6020
Initial Wgt/Vol....:	0.08333 L	**Analyst ID....:**	Sabine Hargrave		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Arsenic	**0.0018**	**B J**	**0.0022**	**0.00045**	**ug/m3**
Manganese	**2.63**		**0.00111**	**0.000157**	**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-11292010B

Trace Level Compounds

Lot - Sample #....:	G0L020446 - 004	**Work Order #....:**	MAQQ41AC	**Matrix....:**	AA
Date Sampled....:	11/29/10	**Date Received....:**	12/02/10	**Dilution Factor....:**	1
Prep Date....:	12/07/10	**Analysis Date....:**	12/07/10	**Volume....:**	1107.96
Prep Batch # ....:	0341211	**Instrument ID....:**	M02	**Method....:**	SW846 6020
Initial Wgt/Vol....:	0.08333 L	**Analyst ID....:**	Sabine Hargrave		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Arsenic	**0.0011**	**B J**	**0.0022**	**0.00044**	**ug/m3**
Manganese	**0.0581**		**0.00108**	**0.000153**	**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-11302010B

Trace Level Compounds

Lot - Sample #....:	G0L020446 - 007	**Work Order #....:**	MAQRA1AC	**Matrix....:**	AA
Date Sampled....:	11/30/10	**Date Received....:**	12/02/10	**Dilution Factor....:**	1
Prep Date....:	12/07/10	**Analysis Date....:**	12/07/10	**Volume....:**	943.37
Prep Batch # ....:	0341211	**Instrument ID....:**	M02	**Method....:**	SW846 6020
Initial Wgt/Vol....:	0.08333 L	**Analyst ID....:**	Sabine Hargrave		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Arsenic	**0.0013**	**B J**	**0.0025**	**0.00052**	**ug/m3**
Manganese	**0.812**		**0.00127**	**0.000180**	**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-11302010B

Trace Level Compounds

Lot - Sample #....:	G0L020446 - 010	**Work Order #....:**	MAQRH1AC	**Matrix....:**	AA
Date Sampled....:	11/30/10	**Date Received....:**	12/02/10	**Dilution Factor....:**	1
Prep Date....:	12/07/10	**Analysis Date....:**	12/07/10	**Volume....:**	934.22
Prep Batch # ....:	0341211	**Instrument ID....:**	M02	**Method....:**	SW846 6020
Initial Wgt/Vol....:	0.08333 L	**Analyst ID....:**	Sabine Hargrave		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Arsenic	0.0012	B J	0.0026	0.00052	ug/m3
Manganese	0.134		0.00128	0.000182	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

G0L020446

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
003	AA	SW846 6020		0341211	
004	AA	SW846 6020		0341211	
007	AA	SW846 6020		0341211	
010	AA	SW846 6020		0341211	

Method Blank Report

Trace Level Compounds

Lot - Sample #....:	G0L070000 - 211B	**Work Order #....:**	MA0J71AA	**Matrix....:**	AIR
Date Sampled....:	11/29/10	**Date Received....:**	12/02/10	**Dilution Factor....:**	1
Prep Date....:	12/07/10	**Analysis Date....:**	12/07/10	**Volume....:**	0
Prep Batch # ....:	0341211	**Instrument ID....:**	M02	**Method....:**	SW846 6020
Initial Wgt/Vol....:	0.08333 L	**Analyst ID....:**	Sabine Hargrave		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Arsenic	**0.82**	**B**	**2.4**	**0.49**	**ug**
Manganese	ND		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 # ...:	G0L020446	**Work Order # ...:**	MA0J71AD-LCS MA0J71AE-LCSD	**Matrix .....:**	AIR
LCS Lot-Sample# :	G0L070000 - 211				
Prep Date .....:	12/07/10	**Analysis Date ..:**	12/07/10		
Prep Batch # ...:	0341211				
Dilution Factor :	1				
Analyst ID.....:	Sabine Hargrave	**Instrument ID..:**	M02	**Method.....:**	SW846 6020
Initial Wgt/Vol:	0.08333 L				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
Arsenic	**240**	**227**	**ug**	**95**	**(86 - 110)**		
	240	**220**	**ug**	**92**	**(86 - 110)**	**3.3**	**(0 - 15)**
Manganese	**240**	**226**	**ug**	**94**	**(88 - 110)**		
	240	**219**	**ug**	**91**	**(88 - 110)**	**2.9**	**(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-11292010B

Trace Level Compounds

Lot - Sample #....:	G0L020446 - 003	**Work Order #....:**	MAQQ11AA	**Matrix....:**	AA
Date Sampled....:	11/29/10	**Date Received....:**	12/02/10	**Dilution Factor....:**	1
Prep Date....:	12/02/10	**Analysis Date....:**	12/07/10	**Volume....:**	1081.47
Prep Batch # ....:	0341297	**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	**0.0000402**	**0.000000462**	**--**	**g/m3**

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: DW-11292010B

Trace Level Compounds

Lot - Sample #....:	G0L020446 - 004	**Work Order #....:**	MAQQ41AA	**Matrix....:**	AA
Date Sampled....:	11/29/10	**Date Received....:**	12/02/10	**Dilution Factor....:**	1
Prep Date....:	12/02/10	**Analysis Date....:**	12/07/10	**Volume....:**	1107.96
Prep Batch # ....:	0341297	**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	0.0000243	0.000000451	--	g/m3

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: UW-11302010B

Trace Level Compounds

Lot - Sample #....:	G0L020446 - 007	**Work Order #....:**	MAQRA1AA	**Matrix....:**	AA
Date Sampled....:	11/30/10	**Date Received....:**	12/02/10	**Dilution Factor....:**	1
Prep Date....:	12/02/10	**Analysis Date....:**	12/07/10	**Volume....:**	943.37
Prep Batch # ....:	0341297	**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	**0.0000392**	**0.000000530**	--	**g/m3**

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: DW-11302010B

Trace Level Compounds

Lot - Sample #....:	G0L020446 - 010	**Work Order #....:**	MAQRH1AA	**Matrix....:**	AA
Date Sampled....:	11/30/10	**Date Received....:**	12/02/10	**Dilution Factor....:**	1
Prep Date....:	12/02/10	**Analysis Date....:**	12/07/10	**Volume....:**	934.22
Prep Batch # ....:	0341297	**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	**0.0000337**	**0.000000535**	**--**	**g/m3**

QUALIFIERS

QC DATA ASSOCIATION SUMMARY

G0L020446

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
003	AA	CFR50B APDX B		0341297	
004	AA	CFR50B APDX B		0341297	
007	AA	CFR50B APDX B		0341297	
010	AA	CFR50B APDX B		0341297	

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: DFT1207

Initiator/Date: KT-12/08/10 _____ Standard ID: HSL1207

Reviewer/Date: _____ 12/8/10 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:_____	NA	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	☐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 : 120710.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
07-DEC-2010	18:30	KT	PRIMER	QC001.D	NA	NA	NA		
07-DEC-2010	18:58	KT	DFTPP 50ug/ml	DFT1207.D	NA	NA	NA		
07-DEC-2010	19:18	KT	AP9_050 ug/ml CS-4	AP91207.D	NA	NA	NA		
07-DEC-2010	19:43	KT	HSL_050 ug/ml CS-4	HSL1207.D	NA	NA	NA		
07-DEC-2010	20:07	KT	MAG8M1AC G0K230000-447C	S120701.D	30 g	1 mL	1	QL	
07-DEC-2010	20:58	KT	MAW5A1AA G0L060000-218B	S120702.D	1000 mL	1 mL	1	QL	High surr. NC
07-DEC-2010	21:23	KT	MAW5A1AC G0L060000-218C	S120703.D	1000 mL	1 mL	1	QL	
07-DEC-2010	21:47	KT	L99LV2AF G0K180601-1RX	S120704.D	1042.37 mL	1 mL	1	QL	low surr. conf.
07-DEC-2010	22:12	KT	MAR231AA G0L020000-447B	S120705.D	1000 Sa	1 mL	1	JZ	
07-DEC-2010	22:36	KT	MAR231AC G0L020000-447C	S120706.D	1000 Sa	1 mL	1	JZ	
07-DEC-2010	23:01	KT	MAR231AD G0L020000-447L	S120707.D	1000 Sa	1 mL	1	JZ	
07-DEC-2010	23:25	KT	MAQQW1AA G0L020446-2	S120708.D	1000 Sa	1 mL	1	JZ	low surr. RI
07-DEC-2010	23:50	KT	MAQQ91AA G0L020446-6	S120709.D	1000 Sa	1 mL	1	JZ	
08-DEC-2010	00:14	KT	MAQRF1AA G0L020446-9	S120710.D	1000 Sa	1 mL	1	JZ	low surr. RI
08-DEC-2010	00:38	KT	MAXH81AA G0L060000-307B	S120711.D	30 g	1 mL	1	QL	
08-DEC-2010	01:03	KT	MAXH81AC G0L060000-307C	S120712.D	30 g	1 mL	1	QL	
08-DEC-2010	01:27	KT	MAN3M1AA G0L010485-1	S120713.D	30.18 g	1 mL	1	QL	
08-DEC-2010	01:52	KT	MAN3R1AF G0L010485-3	S120714.D	29.8 g	1 mL	1	QL	
08-DEC-2010	02:16	KT	MAN3V1AF G0L010485-5	S120715.D	29.8 g	1 mL	1	QL	
08-DEC-2010	02:41	KT	MAN3X1AF G0L010485-7	S120716.D	30.05 g	1 mL	1	QL	
08-DEC-2010	03:05	KT	MAN321AF G0L010485-9	S120717.D	29.57 g	1 mL	1	QL	
08-DEC-2010	03:30	KT	MAN341AF G0L010485-11	S120718.D	29.94 g	1 mL	1	QL	
08-DEC-2010	03:54	KT	MAN341CK G0L010485-11S	S120719.D	29.89 g	1 mL	1	QL	
08-DEC-2010	04:18	KT	MAN341CL G0L010485-11D	S120720.D	30.03 g	1 mL	1	QL	
08-DEC-2010	04:43	KT	MAN371AF G0L010485-13	S120721.D	29.9 g	1 mL	1	QL	
08-DEC-2010	05:07	KT	MAN4D1AF G0L010485-15	S120722.D	29.92 g	1 mL	1	QL	
08-DEC-2010	05:32	KT	MAN4G1AF G0L010485-17	S120723.D	30.23 g	1 mL	1	QL	
08-DEC-2010	05:56	KT	MAN4M1AF G0L010485-19	S120724.D	30.16 g	1 mL	1	QL	
08-DEC-2010	06:21	KT	L92K41AD G0K130493-3	S120725.D	29.81 g	1 mL	1	QL	
08-DEC-2010	06:45	KT	L92K91AE G0K130493-8 1X	S120726.D	29.96 g	1 mL	1	QL	

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 07-DEC-2010 19:43
Lab File ID: HSL1207.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\120710.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 7 2-Fluorophenol	1.40992	1.38812	1.38812	0.010	-1.54608	50.00000	Averaged
$ 8 Phenol-d5	1.77296	1.79386	1.79386	0.010	1.17898	50.00000	Averaged
$ 9 2-Chlorophenol-d4	1.55698	1.58766	1.58766	0.010	1.97048	50.00000	Averaged
$ 10 1,2-Dichlorobenzene-d4	0.98513	0.98234	0.98234	0.010	-0.28316	50.00000	Averaged
$ 11 Nitrobenzene-d5	0.33879	0.35247	0.35247	0.010	4.03629	50.00000	Averaged
$ 12 2-Fluorobiphenyl	1.28852	1.29519	1.29519	0.010	0.51775	50.00000	Averaged
$ 13 2,4,6-Tribromophenol	0.17381	0.19209	0.19209	0.010	10.51446	50.00000	Averaged
$ 14 Terphenyl-d14	0.78789	0.83980	0.83980	0.010	6.58803	50.00000	Averaged
15 N-Nitrosodimethylamine	0.92154	0.90338	0.90338	0.010	-1.97126	50.00000	Averaged
16 Pyridine	1.54111	1.38842	1.38842	0.010	-9.90762	50.00000	Averaged
23 Aniline	2.25673	2.18985	2.18985	0.010	-2.96341	50.00000	Averaged
24 Phenol	2.03729	1.98285	1.98285	0.010	-2.67209	20.00000	Averaged
26 Bis(2-chloroethyl)ether	1.42859	1.44040	1.44040	0.010	0.82638	50.00000	Averaged
27 2-Chlorophenol	1.56381	1.55159	1.55159	0.010	-0.78132	50.00000	Averaged
28 1,3-Dichlorobenzene	1.70337	1.71797	1.71797	0.010	0.85660	50.00000	Averaged
29 1,4-Dichlorobenzene	1.78118	1.79692	1.79692	0.010	0.88384	20.00000	Averaged
30 Benzyl Alcohol	1.05101	1.07280	1.07280	0.010	2.07283	50.00000	Averaged
31 1,2-Dichlorobenzene	1.63746	1.66522	1.66522	0.010	1.69533	50.00000	Averaged
32 2-Methylphenol	1.43012	1.43743	1.43743	0.010	0.51110	50.00000	Averaged
33 2,2'-oxybis(1-Chloropropane	2.27365	2.27930	2.27930	0.010	0.24858	50.00000	Averaged
34 4-Methylphenol	1.51904	1.52269	1.52269	0.010	0.24021	50.00000	Averaged
36 Hexachloroethane	0.60636	0.62583	0.62583	0.010	3.21023	50.00000	Averaged
37 N-Nitrosodinpropylamine	1.01180	1.04219	1.04219	0.050	3.00345	50.00000	Averaged
42 Nitrobenzene	0.33116	0.33780	0.33780	0.010	2.00304	50.00000	Averaged
44 Isophorone	0.63679	0.64378	0.64378	0.010	1.09855	50.00000	Averaged
45 2-Nitrophenol	0.19648	0.20934	0.20934	0.010	6.54860	20.00000	Averaged
46 2,4-Dimethyphenol	0.34911	0.35969	0.35969	0.010	3.02794	50.00000	Averaged
47 Bis(2-chloroethoxy)methane	0.38908	0.38567	0.38567	0.010	-0.87753	50.00000	Averaged
49 2,4-Dichlorophenol	0.27010	0.28269	0.28269	0.010	4.66165	20.00000	Averaged
50 Benzoic Acid	0.19324	0.17018	0.17018	0.010	-11.93634	50.00000	Averaged
51 1,2,4-Trichlorobenzene	0.29246	0.30642	0.30642	0.010	4.77577	50.00000	Averaged
52 Naphthalene	1.10443	1.11664	1.11664	0.010	1.10556	50.00000	Averaged
54 4-Chloroaniline	0.43288	0.44296	0.44296	0.010	2.33006	50.00000	Averaged
57 Hexachlorobutadiene	0.14313	0.15539	0.15539	0.010	8.56540	20.00000	Averaged
60 4-Chloro-3-Methylphenol	0.30164	0.31622	0.31622	0.010	4.83582	20.00000	Averaged
63 2-Methylnaphthalene	0.69378	0.72988	0.72988	0.010	5.20378	50.00000	Averaged
66 Hexachlorocyclopentadiene	0.29846	0.31089	0.31089	0.050	4.16439	50.00000	Averaged
69 2,4,6-Trichlorophenol	0.31913	0.33823	0.33823	0.010	5.98459	20.00000	Averaged
70 2,4,5-Trichlorphenol	0.34380	0.37223	0.37223	0.010	8.26876	50.00000	Averaged
71 2-Chloronaphthalene	1.12571	1.12891	1.12891	0.010	0.28470	50.00000	Averaged
73 2-Nitroaniline	0.34119	0.37318	0.37318	0.010	9.37719	50.00000	Averaged
76 Dimethylphthalate	1.29606	1.37278	1.37278	0.010	5.91920	50.00000	Averaged

Manual calculation for 2-chlorophenol.

$\frac{283629}{146239} \times \frac{40}{50} = 1.55159$ KP 12/8/10

12/8/10

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 07-DEC-2010 19:43
Lab File ID: HSL1207.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\120710.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
77 Acenaphthylene	1.96037	1.99034	1.99034	0.010	1.52875	50.00000	Averaged
79 2,6-Dinitrotoluene	0.30197	0.32364	0.32364	0.010	7.17855	50.00000	Averaged
80 3-Nitroaniline	0.37691	0.38357	0.38357	0.010	1.76838	50.00000	Averaged
81 Acenaphthene	1.24787	1.28624	1.28624	0.010	3.07486	20.00000	Averaged
82 2,4-Dinitrophenol	50.00000	51.34863	0.18256	0.050	2.69726	0.000e+000	Quadratic
83 Dibenzofuran	1.65612	1.69476	1.69476	0.010	2.33307	50.00000	Averaged
84 4-Nitrophenol	0.15634	0.17850	0.17850	0.050	14.17580	50.00000	Averaged
86 2,4-Dinitrotoluene	0.39633	0.42327	0.42327	0.010	6.79753	50.00000	Averaged
91 Fluorene	1.37139	1.37416	1.37416	0.010	0.20160	50.00000	Averaged
92 Diethylphthalate	1.32699	1.41218	1.41218	0.010	6.41958	50.00000	Averaged
93 4-Chlorophenyl-phenylether	0.57019	0.59965	0.59965	0.010	5.16753	50.00000	Averaged
94 4-Nitroaniline	0.37361	0.41669	0.41669	0.010	11.52958	50.00000	Averaged
97 4,6-Dinitro-2-methylphenol	50.00000	51.68523	0.14755	0.010	3.37046	0.000e+000	Linear
98 N-Nitrosodiphenylamine	0.60628	0.64286	0.64286	0.010	6.03273	20.00000	Averaged
100 Azobenzene	0.78660	0.80950	0.80950	0.010	2.91115	50.00000	Averaged
101 4-Bromophenyl-phenylether	0.19527	0.21650	0.21650	0.010	10.87465	50.00000	Averaged
108 Hexachlorobenzene	0.21807	0.22971	0.22971	0.010	5.34174	50.00000	Averaged
110 Pentachlorophenol	50.00000	48.06186	0.12466	0.010	-3.87627	0.000e+000	Linear
114 Phenanthrene	1.26074	1.29243	1.29243	0.010	2.51321	50.00000	Averaged
115 Anthracene	1.25955	1.28271	1.28271	0.010	1.83948	50.00000	Averaged
118 Carbazole	1.15061	1.20490	1.20490	0.010	4.71881	50.00000	Averaged
120 Di-n-Butylphthalate	1.38442	1.53717	1.53717	0.010	11.03401	50.00000	Averaged
126 Fluoranthene	1.12969	1.20724	1.20724	0.010	6.86459	20.00000	Averaged
127 Benzidine	0.81067	0.83275	0.83275	0.010	2.72386	50.00000	Averaged
128 Pyrene	1.25025	1.29422	1.29422	0.010	3.51670	50.00000	Averaged
134 3,3'-dimethylbenzidine	0.71564	0.74478	0.74478	0.010	4.07166	50.00000	Averaged
136 Butylbenzylphthalate	0.62663	0.67197	0.67197	0.010	7.23566	50.00000	Averaged
138 Benzo(a)Anthracene	1.06548	1.12727	1.12727	0.010	5.79955	50.00000	Averaged
139 Chrysene	1.08994	1.11232	1.11232	0.010	2.05366	50.00000	Averaged
140 3,3'-Dichlorobenzidine	0.40189	0.41343	0.41343	0.010	2.87057	50.00000	Averaged
141 bis(2-ethylhexyl)Phthalate	0.86316	0.92502	0.92502	0.010	7.16702	50.00000	Averaged
142 Di-n-octylphthalate	1.37975	1.57196	1.57196	0.010	13.93055	20.00000	Averaged
144 Benzo(b)fluoranthene	0.90549	1.05811	1.05811	0.010	16.85442	50.00000	Averaged
145 Benzo(k)fluoranthene	1.16236	1.11437	1.11437	0.010	-4.12825	50.00000	Averaged
147 Benzo(e)pyrene	0.94425	0.99686	0.99686	0.010	5.57246	50.00000	Averaged
148 Benzo(a)pyrene	1.02655	1.04636	1.04636	0.010	1.93015	20.00000	Averaged
151 Indeno(1,2,3-cd)pyrene	0.83029	0.91194	0.91194	0.010	9.83363	50.00000	Averaged
152 Dibenzo(a,h)anthracene	0.92758	1.01587	1.01587	0.010	9.51876	50.00000	Averaged
153 Benzo(g,h,i)perylene	1.00427	1.06007	1.06007	0.010	5.55620	50.00000	Averaged
M 162 benzo b,k Fluoranthene Tota	2.06785	2.17248	2.17248	0.010	5.05995	50.00000	Averaged

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\120710.B\HSL1207.D
Lab Smp Id: HSL_050 ug/ml CS-4 Client Smp ID: 8270F.M
Inj Date : 07-DEC-2010 19:43
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\120710.B\8270f.m
Meth Date : 08-Dec-2010 09:16 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)	ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	3.532	3.532	(1.000)	146239	40.0000	
*	2 Naphthalene-d8	136	4.941	4.941	(1.000)	627132	40.0000	
*	3 Acenaphthene-d10	164	7.024	7.024	(1.000)	339490	40.0000	
*	4 Phenanthrene-d10	188	8.879	8.879	(1.000)	541577	40.0000	
*	5 Chrysene-d12	240	13.159	13.159	(1.000)	552156	40.0000	
*	6 Perylene-d12	264	15.522	15.522	(1.000)	546812	40.0000	
$	7 2-Fluorophenol	112	2.330	2.330	(0.660)	253747	50.0000	49.23
$	8 Phenol-d5	99	3.221	3.221	(0.912)	327916	50.0000	50.59
$	9 2-Chlorophenol-d4	132	3.335	3.335	(0.944)	290223	50.0000	50.98
$	10 1,2-Dichlorobenzene-d4	152	3.729	3.729	(1.056)	179570	50.0000	49.86
$	11 Nitrobenzene-d5	82	4.154	4.154	(0.841)	276306	50.0000	52.02
$	12 2-Fluorobiphenyl	172	6.247	6.247	(0.889)	549632	50.0000	50.26
$	13 2,4,6-Tribromophenol	330	7.998	7.998	(1.139)	81516	50.0000	55.26
$	14 Terphenyl-d14	244	11.439	11.439	(0.869)	579626	50.0000	53.29
	15 N-Nitrosodimethylamine	74	1.304	1.304	(0.369)	165136	50.0000	49.01
	16 Pyridine	79	1.314	1.314	(0.372)	253802	50.0000	45.05
	23 Aniline	93	3.231	3.231	(0.915)	400302	50.0000	48.52
	24 Phenol	94	3.231	3.231	(0.915)	362462	50.0000	48.66
	26 Bis(2-chloroethyl)ether	93	3.304	3.304	(0.935)	263303	50.0000	50.41
	27 2-Chlorophenol	128	3.345	3.345	(0.947)	283629	50.0000	49.61
	28 1,3-Dichlorobenzene	146	3.491	3.491	(0.988)	314042	50.0000	50.43
	29 1,4-Dichlorobenzene	146	3.542	3.542	(1.003)	328475	50.0000	50.44
	30 Benzyl Alcohol	108	3.708	3.708	(1.050)	196106	50.0000	51.04
	31 1,2-Dichlorobenzene	146	3.739	3.739	(1.059)	304401	50.0000	50.85
	32 2-Methylphenol	108	3.864	3.864	(1.094)	262761	50.0000	50.26
	33 2,2'-oxybis(1-Chloropropane)	45	3.874	3.874	(1.097)	416654	50.0000	50.12
	34 4-Methylphenol	108	4.029	4.029	(1.141)	278346	50.0000	50.12
	36 Hexachloroethane	117	4.071	4.071	(1.153)	114401	50.0000	51.60
	37 N-Nitrosodinpropylamine	70	4.029	4.029	(1.141)	190511	50.0000	51.50
	42 Nitrobenzene	77	4.175	4.175	(0.845)	264804	50.0000	51.00
	44 Isophorone	82	4.434	4.434	(0.897)	504672	50.0000	50.55
	45 2-Nitrophenol	139	4.537	4.537	(0.918)	164108	50.0000	53.27
	46 2,4-Dimethyphenol	107	4.620	4.620	(0.935)	281963	50.0000	51.51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47	Bis(2-chloroethoxy)methane	93	4.713	4.713	(0.954)	302332	50.0000	49.56
49	2,4-Dichlorophenol	162	4.807	4.807	(0.973)	221606	50.0000	52.33
50	Benzoic Acid	122	4.744	4.744	(0.960)	133403	50.0000	44.03
51	1,2,4-Trichlorobenzene	180	4.900	4.900	(0.992)	240209	50.0000	52.39
52	Naphthalene	128	4.962	4.962	(1.004)	875348	50.0000	50.55
54	4-Chloroaniline	127	5.066	5.066	(1.025)	347244	50.0000	51.16
57	Hexachlorobutadiene	225	5.190	5.190	(1.050)	121809	50.0000	54.28
60	4-Chloro-3-Methylphenol	107	5.677	5.677	(1.149)	247891	50.0000	52.42
63	2-Methylnaphthalene	142	5.895	5.895	(1.193)	572162	50.0000	52.60
66	Hexachlorocyclopentadiene	237	6.050	6.050	(0.861)	131928	50.0000	52.08
69	2,4,6-Trichlorophenol	196	6.164	6.164	(0.878)	143533	50.0000	52.99
70	2,4,5-Trichlorphenol	196	6.206	6.206	(0.883)	157960	50.0000	54.13
71	2-Chloronaphthalene	162	6.340	6.340	(0.903)	479069	50.0000	50.14
73	2-Nitroaniline	65	6.527	6.527	(0.929)	158363	50.0000	54.69
76	Dimethylphthalate	163	6.807	6.807	(0.969)	582556	50.0000	52.96
77	Acenaphthylene	152	6.838	6.838	(0.973)	844624	50.0000	50.76
79	2,6-Dinitrotoluene	165	6.879	6.879	(0.979)	137342	50.0000	53.59
80	3-Nitroaniline	138	7.024	7.024	(1.000)	162773	50.0000	50.88
81	Acenaphthene	153	7.066	7.066	(1.006)	545831	50.0000	51.54
82	2,4-Dinitrophenol	184	7.149	7.149	(1.018)	77473	50.0000	51.35
83	Dibenzofuran	168	7.263	7.263	(1.034)	719192	50.0000	51.17
84	4-Nitrophenol	109	7.283	7.283	(1.037)	75750	50.0000	57.09
86	2,4-Dinitrotoluene	165	7.335	7.335	(1.044)	179621	50.0000	53.40
91	Fluorene	166	7.667	7.667	(1.091)	583141	50.0000	50.10
92	Diethylphthalate	149	7.667	7.667	(1.091)	599276	50.0000	53.21
93	4-Chlorophenyl-phenylether	204	7.698	7.698	(1.096)	254471	50.0000	52.58
94	4-Nitroaniline	138	7.771	7.771	(1.106)	176827	50.0000	55.76
97	4,6-Dinitro-2-methylphenol	198	7.822	7.822	(0.881)	99886	50.0000	51.68
98	N-Nitrosodiphenylamine	169	7.864	7.864	(0.886)	510051	58.6000	62.14
100	Azobenzene	77	7.884	7.884	(0.888)	548009	50.0000	51.46
101	4-Bromophenyl-phenylether	248	8.309	8.309	(0.936)	146565	50.0000	55.44
108	Hexachlorobenzene	284	8.475	8.475	(0.954)	155510	50.0000	52.67
110	Pentachlorophenol	266	8.745	8.745	(0.985)	84390	50.0000	48.06
114	Phenanthrene	178	8.910	8.910	(1.004)	874937	50.0000	51.26
115	Anthracene	178	8.973	8.973	(1.011)	868361	50.0000	50.92
118	Carbazole	167	9.242	9.242	(1.041)	815685	50.0000	52.36
120	Di-n-Butylphthalate	149	9.936	9.936	(1.119)	1040623	50.0000	55.52
126	Fluoranthene	202	10.714	10.714	(1.207)	817265	50.0000	53.43
127	Benzidine	184	11.004	11.004	(0.836)	574763	50.0000	51.36
128	Pyrene	202	11.066	11.066	(0.841)	893266	50.0000	51.76
134	3,3'-dimethylbenzidine	212	12.278	12.278	(0.933)	514041	50.0000	52.04
136	Butylbenzylphthalate	149	12.413	12.413	(0.943)	463793	50.0000	53.62
138	Benzo(a)Anthracene	228	13.139	13.139	(0.998)	778036	50.0000	52.90
139	Chrysene	228	13.201	13.201	(1.003)	767718	50.0000	51.03
140	3,3'-Dichlorobenzidine	252	13.190	13.190	(1.002)	285346	50.0000	51.44
141	bis(2-ethylhexyl)Phthalate	149	13.532	13.532	(1.028)	638447	50.0000	53.58
142	Di-n-octylphthalate	149	14.579	14.579	(1.108)	1084956	50.0000	56.96
144	Benzo(b)fluoranthene	252	14.942	14.942	(0.963)	723231	50.0000	58.43
145	Benzo(k)fluoranthene	252	14.983	14.983	(0.965)	761691	50.0000	47.94
147	Benzo(e)pyrene	252	15.356	15.356	(0.989)	681372	50.0000	52.79
148	Benzo(a)pyrene	252	15.429	15.429	(0.994)	715205	50.0000	50.96
151	Indeno(1,2,3-cd)pyrene	276	17.045	17.045	(1.098)	623322	50.0000	54.92
152	Dibenzo(a,h)anthracene	278	17.087	17.087	(1.101)	694362	50.0000	54.76
153	Benzo(g,h,i)perylene	276	17.408	17.408	(1.122)	724574	50.0000	52.78

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				1484922	50.0000	52.53(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: HSL1207.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\120710.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M

Calibration Date: 07-DEC-2010
Calibration Time: 18:30
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	146239	19.26
2 Naphthalene-d8	530514	265257	1061028	627132	18.21
3 Acenaphthene-d10	282538	141269	565076	339490	20.16
4 Phenanthrene-d10	462722	231361	925444	541577	17.04
5 Chrysene-d12	435850	217925	871700	552156	26.68
6 Perylene-d12	422284	211142	844568	546812	29.49

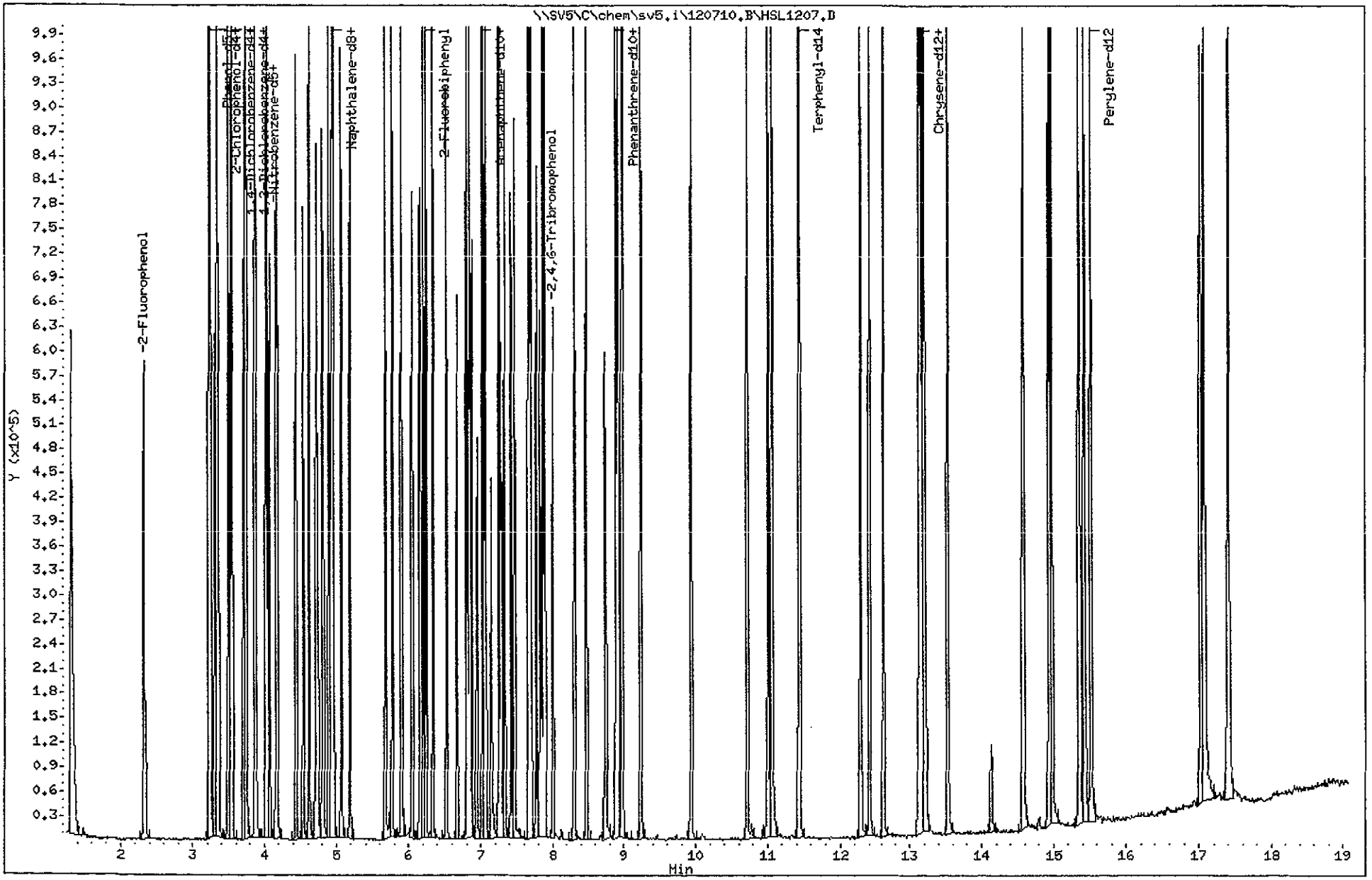
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.53	3.03	4.03	3.53	0.00
2 Naphthalene-d8	4.94	4.44	5.44	4.94	0.00
3 Acenaphthene-d10	7.02	6.52	7.52	7.02	0.00
4 Phenanthrene-d10	8.88	8.38	9.38	8.88	0.00
5 Chrysene-d12	13.16	12.66	13.66	13.16	0.00
6 Perylene-d12	15.52	15.02	16.02	15.52	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\120710.B\HSL1207.D
Date : 07-DEC-2010 19:43
Client ID: 8270F.M
Sample Info: HSL_050 ug/ml CS-4;2;;;4;;;;;4

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

Column phase:



TAILING FACTOR/DEGRADATION SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	1.1044380	5.000	PASS
Benzidine	0.3282517	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	350133	10.5	20.5	PASS

Sample //SV5/C/chem/sv5.i/120710.B/DFT1207.D/DFT1207.D

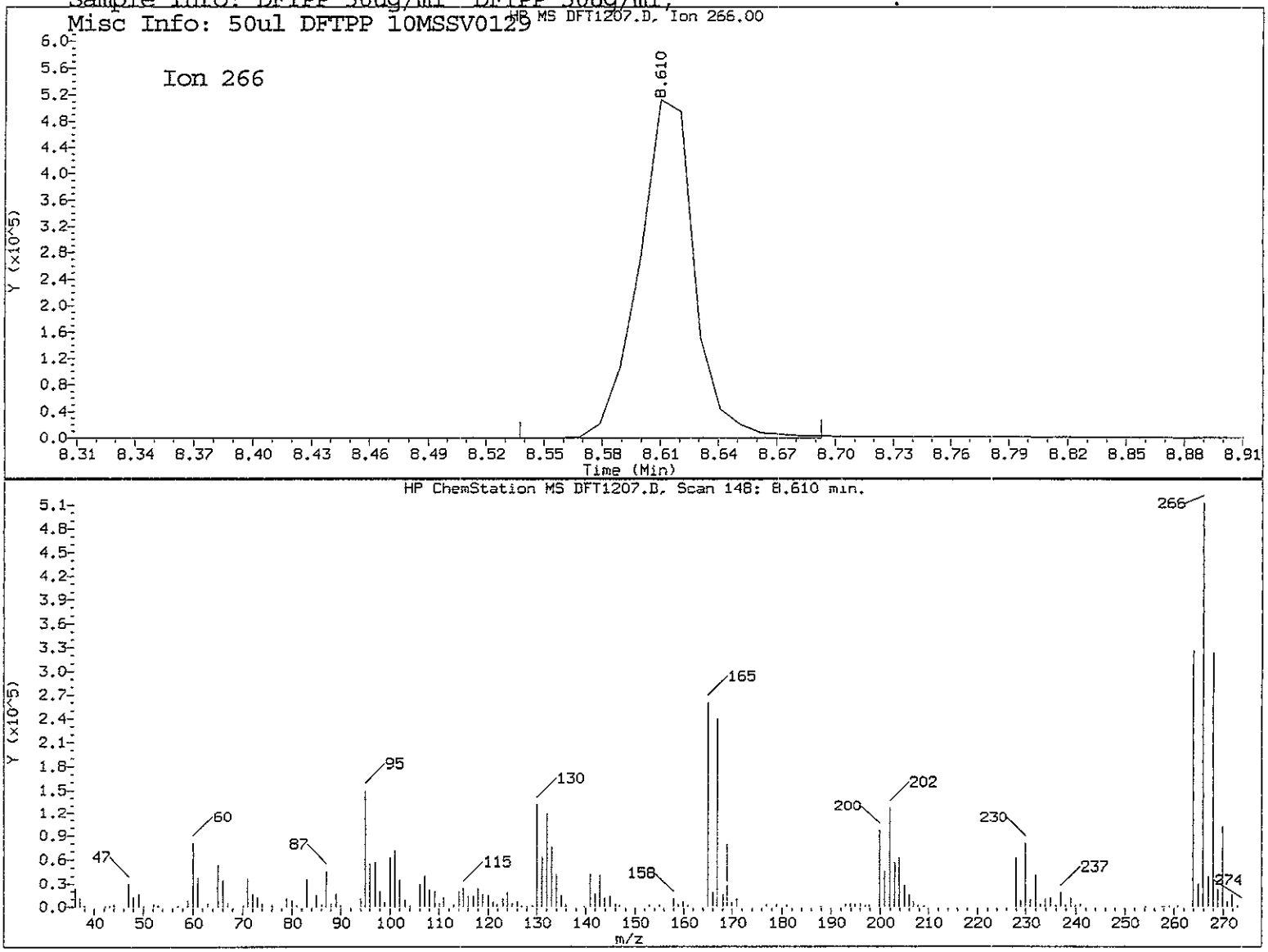
****
*** PASSED ***
****

12/8/10

TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 12/08/2010 09:15

Datafile Analyzed: //SV5/C/chem/sv5.i/120710.B/DFT1207.D/DFT1207.D
Method Used: \\SV5\C\chem\sv5.i\120710.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 07-DEC-2010 18:58 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



Pentachlorophenol
==========
Exp. RT = 8.631
Found RT = 8.610

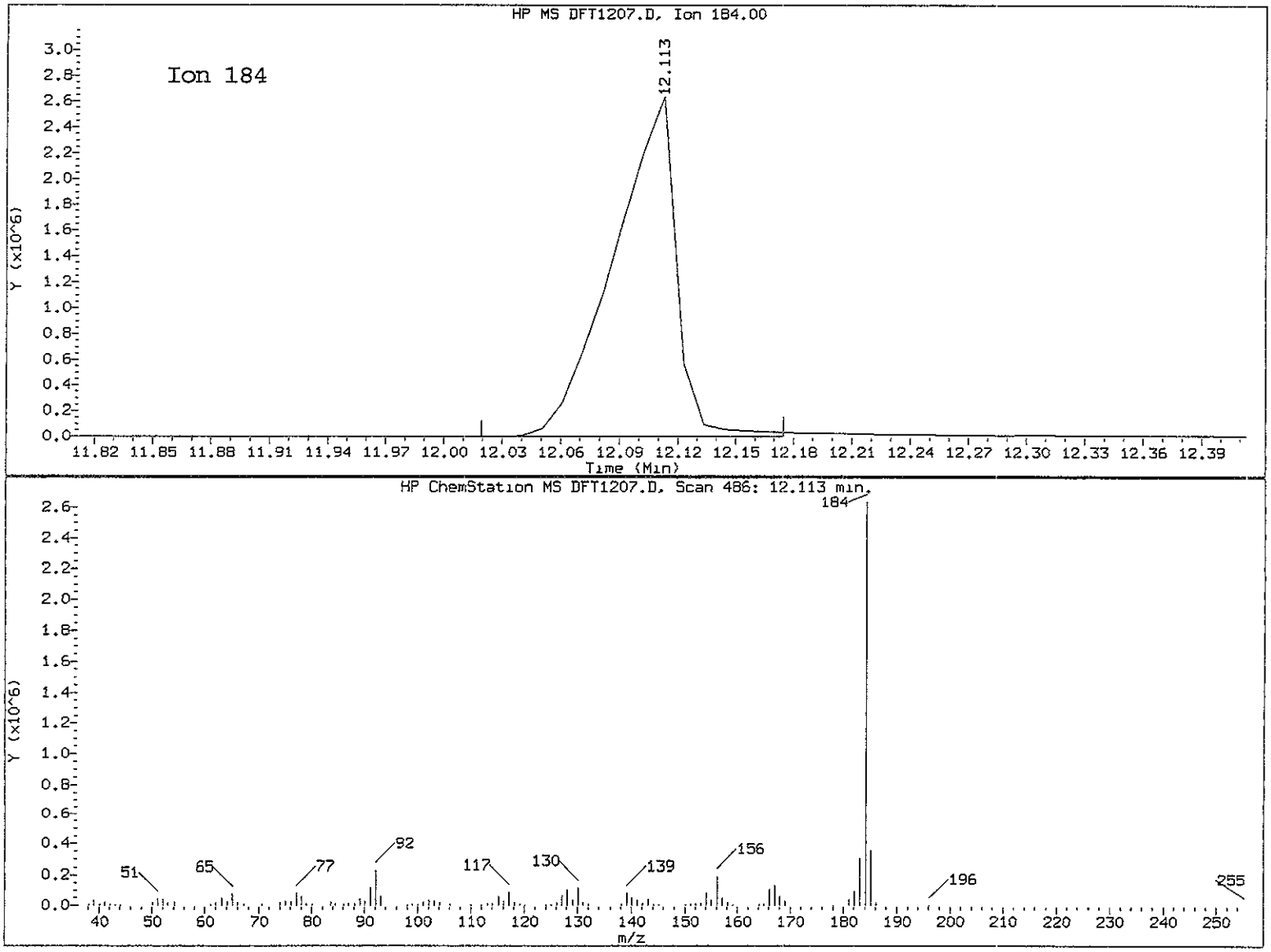
Time1 = 8.582559 Time2 = 8.610033 Time3 = 8.640377
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Pentachlorophenol OK

Tail Factor = 1.104 Maximum Allowed = 5.0

Report Date: 12/08/2010 09:15

Datafile Analyzed: //SV5/C/chem/sv5.i/120710.B/DFT1207.D/DFT1207.D
Method Used: \\SV5\C\chem\sv5.i\120710.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 07-DEC-2010 18:58 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



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

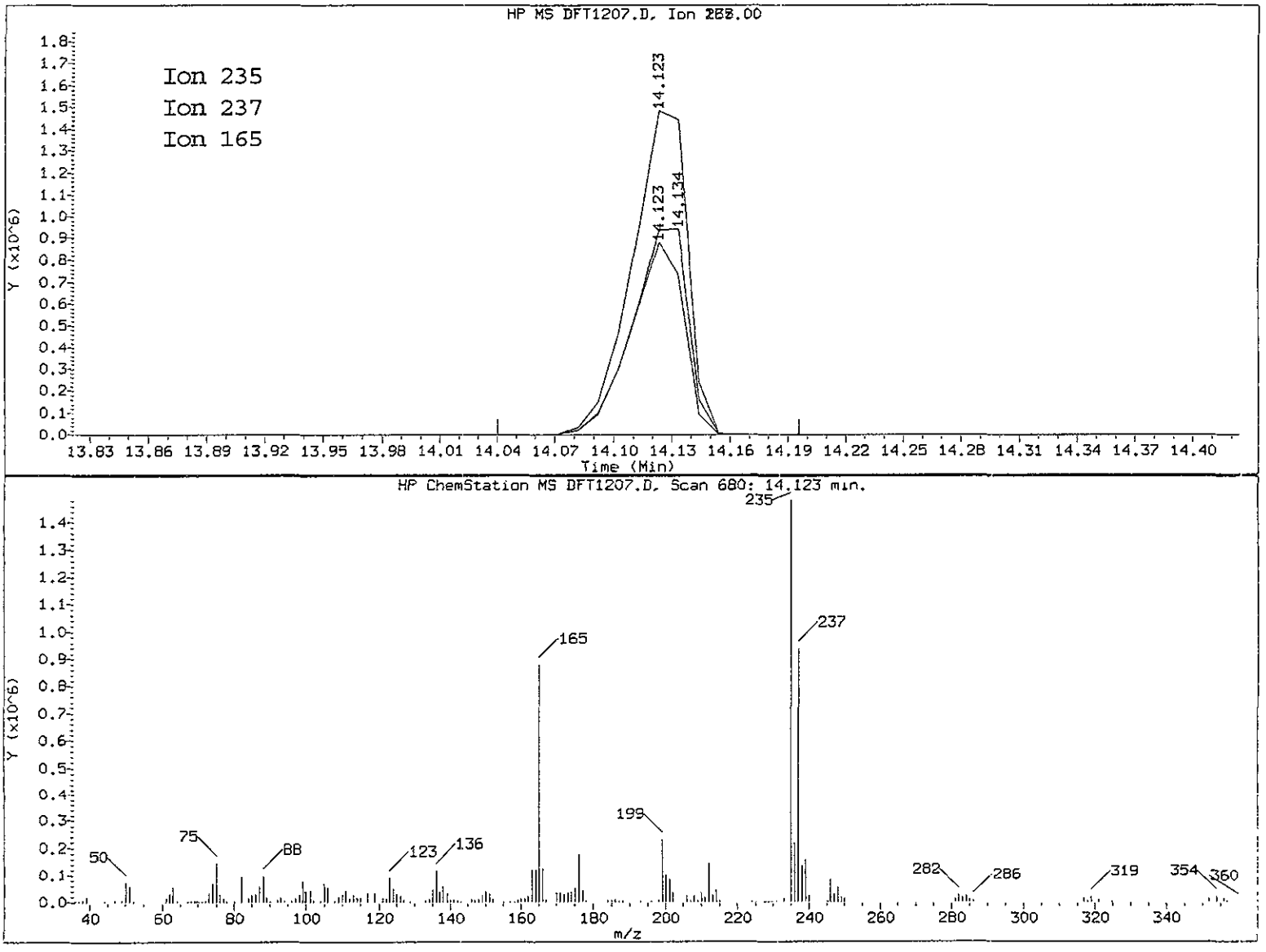
Time1 = 12.06098 Time2 = 12.11275 Time3 = 12.12974
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Benzidine OK

Tail Factor = 0.328 Maximum Allowed = 3.0

Report Date: 12/08/2010 09:15

Datafile Analyzed: //SV5/C/chem/sv5.i/120710.B/DFT1207.D/DFT1207.D
Method Used: \\SV5\C\chem\sv5.i\120710.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 07-DEC-2010 18:58 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129

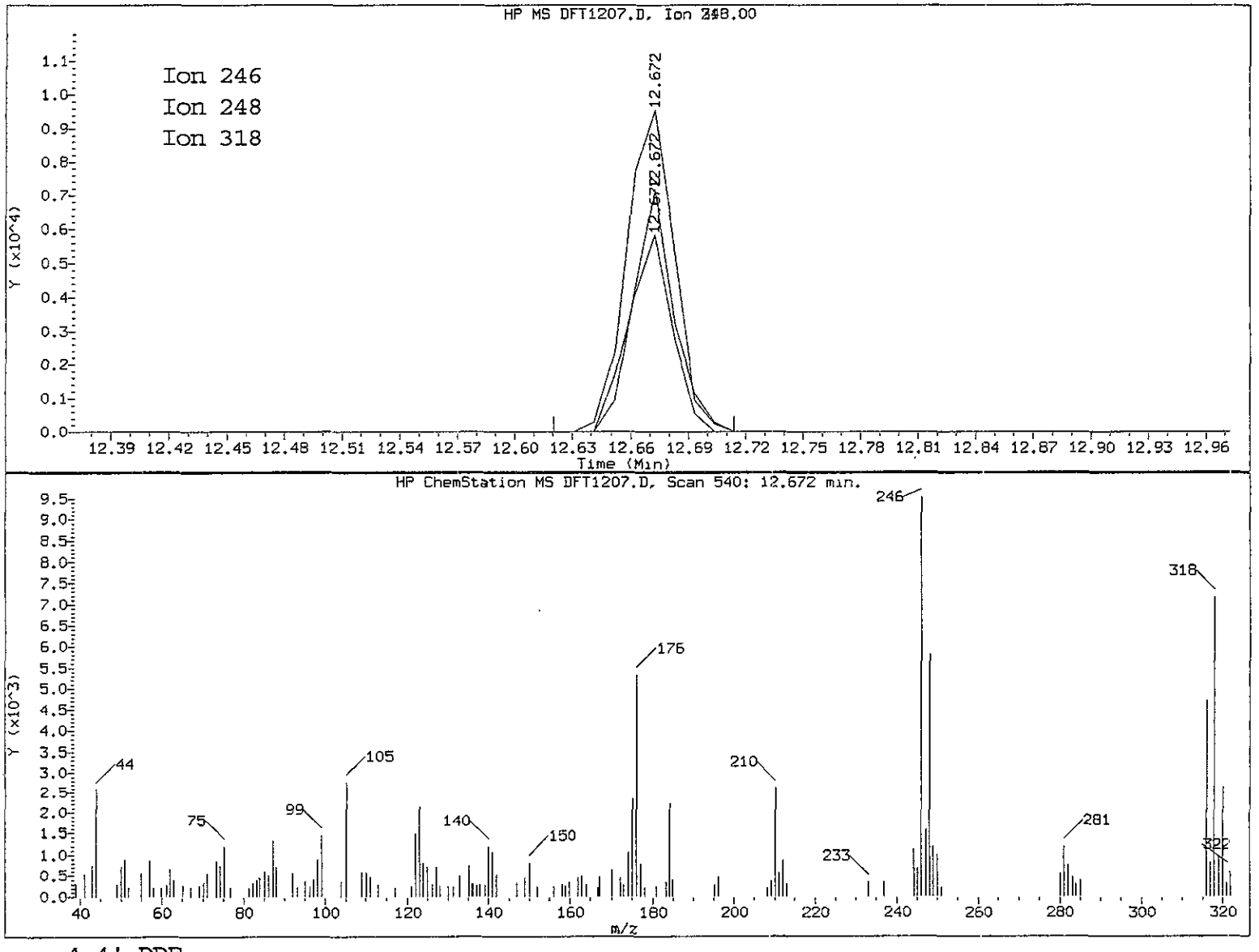


4,4'-DDT
========
Exp. RT = 14.134
Found RT = 14.123

Mass	Area	Ratio
235	2973238	100.00
237	1904311	64.05
165	1697556	57.09

Report Date: 12/08/2010 09:15

Datafile Analyzed: //SV5/C/chem/sv5.i/120710.B/DFT1207.D/DFT1207.D
Method Used: \\SV5\C\chem\sv5.i\120710.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 07-DEC-2010 18:58 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129

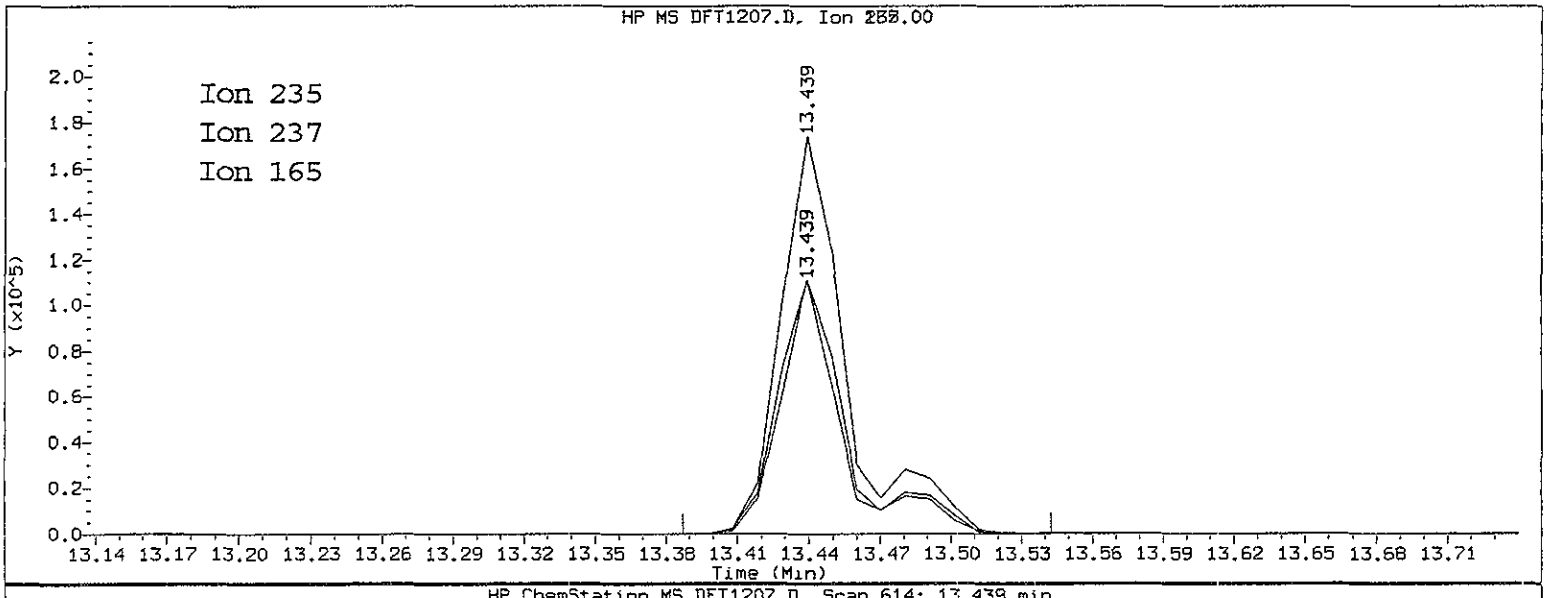


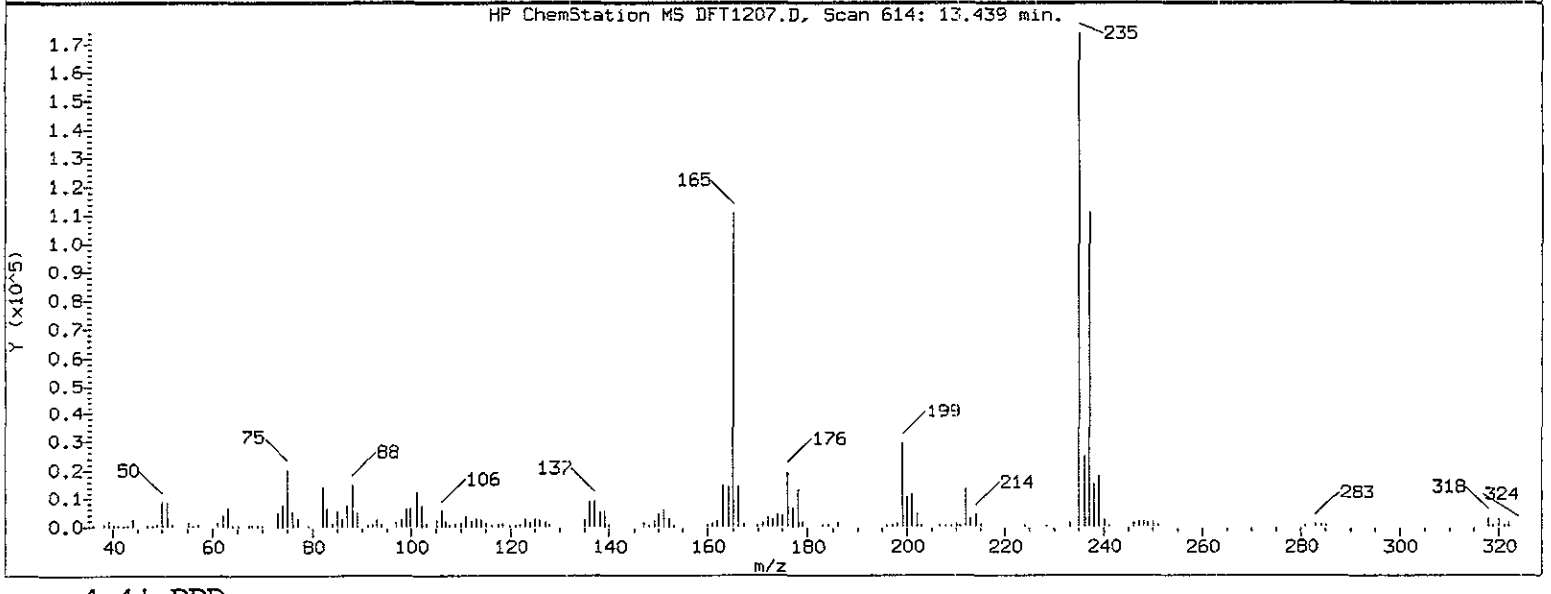
4,4'-DDE
========
Exp. RT = 12.683
Found RT = 12.672

Mass	Area	Ratio
246	16466	100.00
248	9301	56.49
318	10633	64.58

Report Date: 12/08/2010 09:15

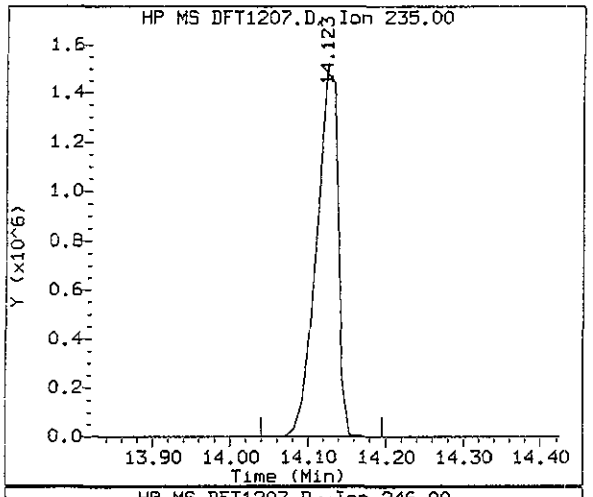
Datafile Analyzed: //SV5/C/chem/sv5.i/120710.B/DFT1207.D/DFT1207.D
Method Used: \\SV5\C\chem\sv5.i\120710.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 07-DEC-2010 18:58 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



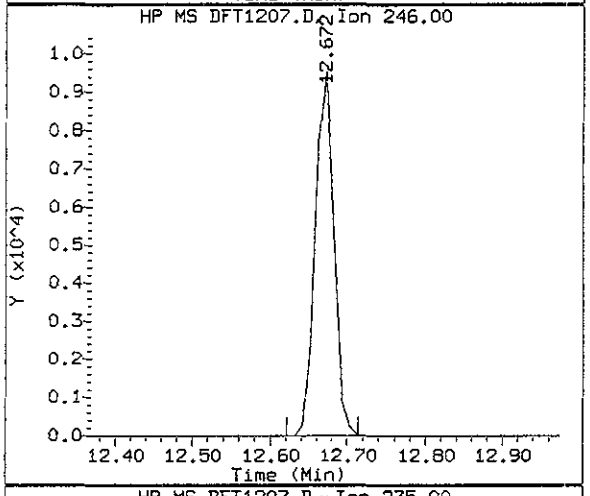


4,4'-DDD
========
Exp. RT = 13.450
Found RT = 13.439

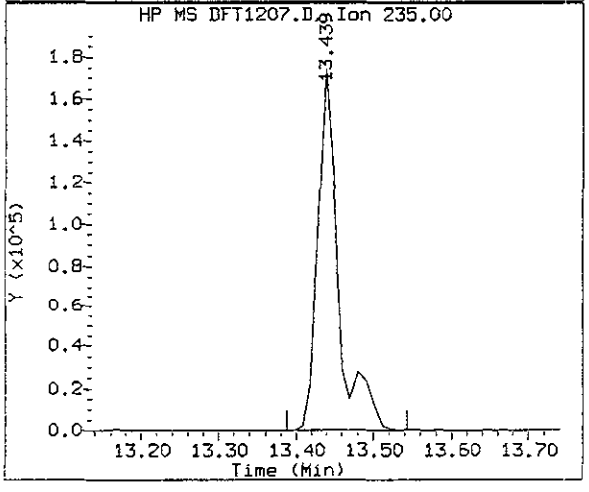
Mass	Area	Ratio
235	333667	100.00
237	212211	63.60
165	207323	62.13



Compound: 4,4'-DDT
Quant Mass: 235
RT: 14.123
Area: 2973238



Compound: 4,4'-DDE
Quant Mass: 246
RT: 12.672
Area: 16466



Compound: 4,4'-DDD
Quant Mass: 235
RT: 13.439
Area: 333667

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	350133	10.5	20.5	PASS

TestAmerica West Sacramento

Data file : \\SV5\C\chem\sv5.i\120710.B\DFT1207.D
Lab Smp Id: DFTPP 50ug/ml
Inj Date : 07-DEC-2010 18:58
Operator : KT Inst ID: sv5.i
Smp Info : DFTPP 50ug/ml;
Misc Info : 50ul DFTPP 10MSSV0129
Comment :
Method : \\SV5\C\chem\sv5.i\120710.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

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
10.091	10.092	(0.000)	198	941120			0.00- 100.00	89.89
10.091	10.092	(0.000)	51	358336			30.00- 60.00	38.08
10.091	10.092	(0.000)	68	5496			0.00- 2.00	1.59
10.091	10.092	(0.000)	69	344832			0.00- 0.00	36.64
10.091	10.092	(0.000)	70	1548			0.00- 2.00	0.45
10.091	10.092	(0.000)	127	486592			40.00- 60.00	51.70
10.091	10.092	(0.000)	197	0	0.0	0.0	0.00- 1.00	0.00
10.091	10.092	(0.000)	199	61496			5.00- 9.00	6.53
10.091	10.092	(0.000)	275	234944			10.00- 30.00	24.96
10.091	10.092	(0.000)	365	30584			1.00- 0.00	3.25
10.091	10.092	(0.000)	441	153408			0.01- 99.99	76.36
10.091	10.092	(0.000)	442	1046912			40.00- 0.00	111.24
10.091	10.092	(0.000)	443	200896			17.00- 23.00	19.19

Data File: \\SV5\C\chem\sv5.i\120710.B\DFT1207.D

Date : 07-DEC-2010 18:58

Client ID:

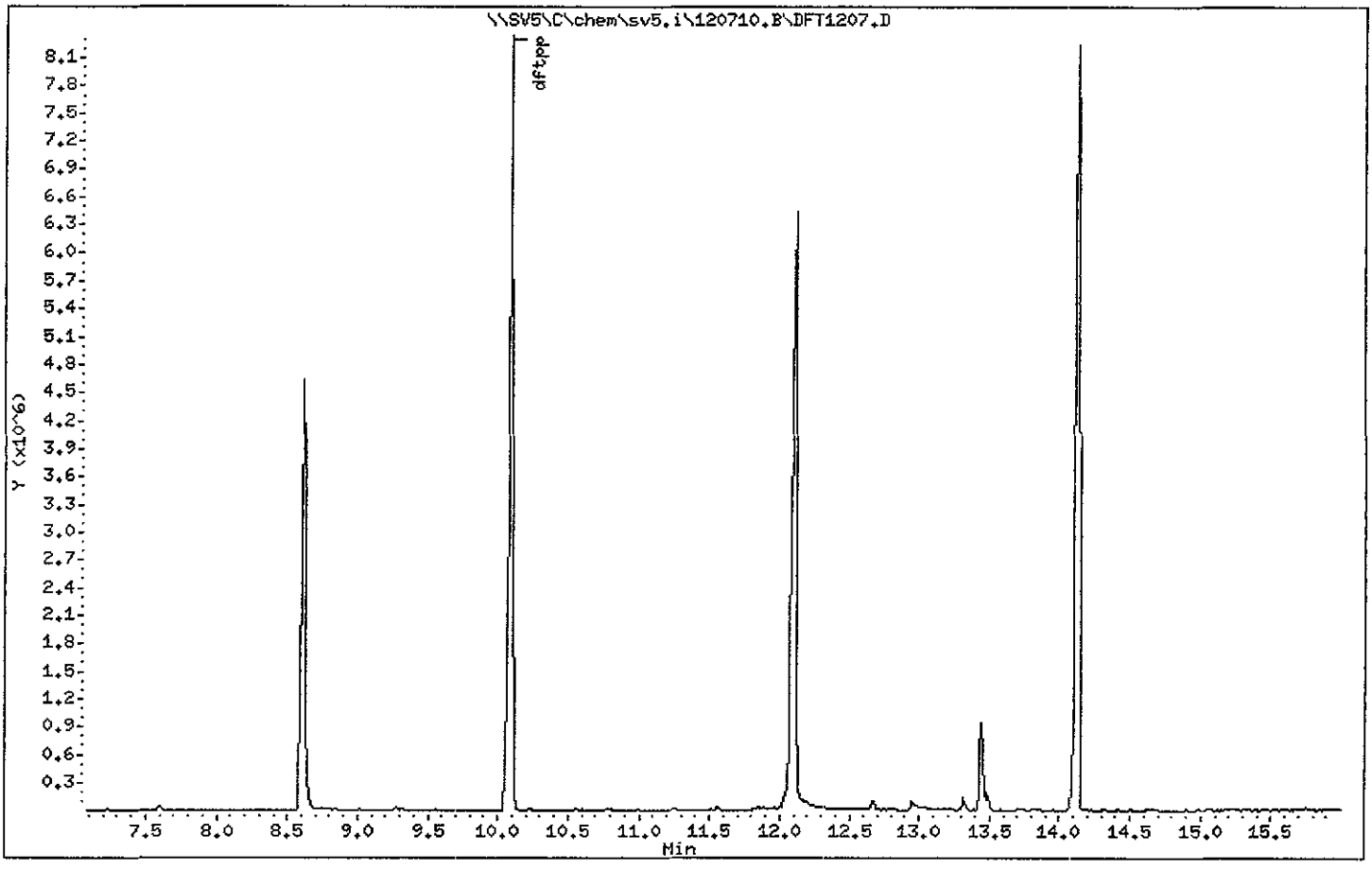
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00



Data File: \\SV5\C\chem\sv5.i\120710.B\DFT1207.D

Date : 07-DEC-2010 18:58

Client ID:

Instrument: sv5.i

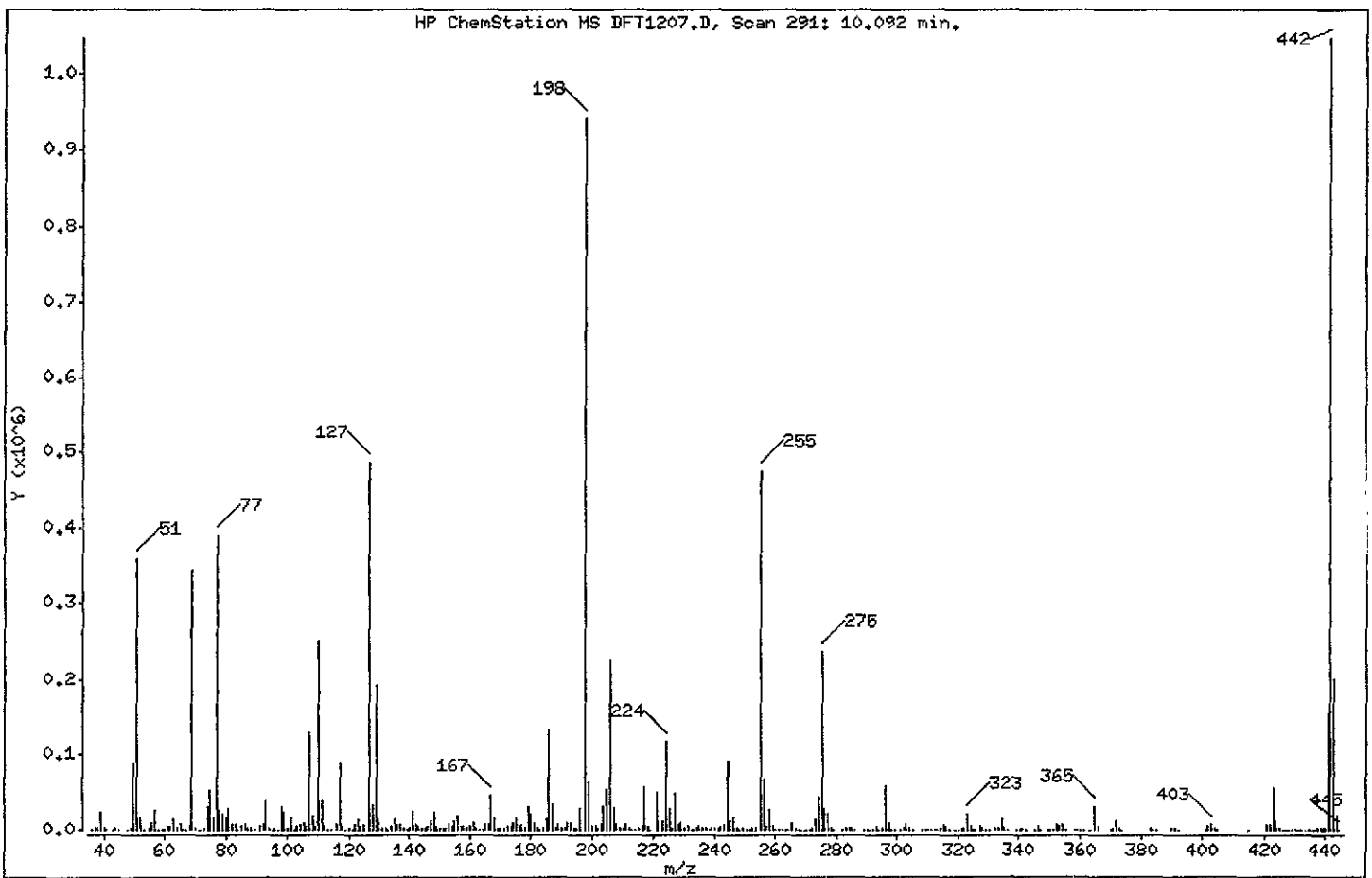
Sample Info: DFTPP 50ug/ml;

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	38.08
68	Less than 2.00% of mass 69	0.58 (1.59)
69	Mass 69 relative abundance	36.64
70	Less than 2.00% of mass 69	0.16 (0.45)
127	40.00 - 60.00% of mass 198	51.70
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	24.96
365	Greater than 1.00% of mass 198	3.25
441	Present, but less than mass 443	16.30
442	Greater than 40.00% of mass 198	111.24
443	17.00 - 23.00% of mass 442	21.35 (19.19)

Date : 07-DEC-2010 18:58

Client ID: Instrument: sv5.i

Sample Info: DFTPP 50ug/ml:

Operator: KT

Column phase: Column diameter: 2.00

Data File: DFT1207.D
Spectrum: HP ChemStation MS DFT1207.D, Scan 291: 10.092 min.
Location of Maximum: 442.00
Number of points: 351

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	444	130.00	15165	218.90	815	316.10	3790
37.10	1237	131.00	3402	221.10	51176	317.10	707
38.10	3041	132.00	1928	223.00	11650	319.00	331
39.10	23944	133.00	627	224.10	118936	320.00	279
40.10	1333	134.00	5648	225.10	27912	321.00	2532
41.10	866	135.00	15521	226.00	3593	322.10	1307
43.10	513	136.00	6475	227.00	48416	323.10	21416
44.00	1753	137.00	6838	228.00	6461	324.10	4062
45.00	753	138.00	2028	229.00	9533	324.80	278
48.20	270	139.10	1195	230.00	1316	325.30	375
49.00	2085	140.10	2579	231.00	5001	327.00	4274
49.20	2117	141.00	23536	232.10	769	328.00	1617
50.10	88856	142.00	7158	233.00	946	329.00	321
51.10	358336	143.00	4808	234.00	3144	330.10	213
52.10	17656	144.10	1434	235.00	3698	332.00	1345
53.10	716	145.00	1389	236.00	1943	333.00	1805
55.00	1866	146.10	4295	237.00	3607	334.10	13511
56.00	10467	147.10	11654	238.10	630	335.10	3336
57.00	26216	148.00	23960	239.00	2294	336.10	533
58.00	1048	149.00	4624	239.90	1581	339.10	518
59.10	505	150.10	1321	241.00	2462	340.10	500
60.00	353	151.10	3266	242.10	5608	341.10	2417
61.00	4125	152.10	2089	243.10	6797	342.00	954
62.00	4408	153.00	6789	244.10	91720	345.10	210
63.00	13262	154.00	5002	245.10	11742	346.00	4911
64.10	2478	155.00	11983	246.00	17040	347.00	1016
65.10	7180	156.10	18168	247.00	3145	349.40	200
65.90	491	157.10	3848	248.10	993	350.10	241
67.10	443	158.00	4829	249.00	3497	351.00	379
68.10	5496	159.00	3216	250.10	775	352.00	7276
69.00	344832	160.00	5537	250.50	458	353.00	5018
70.00	1548	161.10	9714	251.20	739	354.10	6944
71.00	373	162.00	3000	252.10	1652	355.10	1070
72.00	238	163.00	880	253.10	3061	358.00	213
73.00	2482	164.10	1172	255.00	475008	359.00	474

Date : 07-DEC-2010 18:58

Client ID: Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase: Column diameter: 2.00

Data File: DFT1207.D
Spectrum: HP ChemStation MS DFT1207.D, Scan 291: 10.092 min.
Location of Maximum: 442.00
Number of points: 351

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.10	30400	165.00	7398	256.00	67736	359.90	283
75.00	52048	166.10	6991	257.00	5059	361.20	267
76.10	17480	167.00	44528	258.00	27248	363.00	244
77.10	388992	168.00	17480	259.00	4318	363.60	314
78.10	25320	169.00	2761	260.00	1011	365.00	30584
79.00	22488	170.00	1429	261.10	1113	366.00	4285
80.00	17984	171.00	1677	261.90	331	370.00	573
81.00	28192	172.00	4461	263.10	452	371.00	1723
82.00	7221	173.00	5125	264.00	1075	372.00	12369
83.10	6312	174.00	9097	265.00	10046	373.00	3192
84.00	1064	175.00	17000	266.10	1795	373.80	383
85.00	4917	176.10	5616	267.30	242	383.00	2959
86.00	7509	177.00	8330	268.00	253	384.00	1011
87.00	2762	178.00	2927	269.10	217	384.90	444
88.00	1236	179.00	32040	270.10	614	390.00	1487
89.00	726	180.00	20912	271.00	1060	391.00	1312
91.00	5994	181.00	9435	272.00	1955	392.00	832
92.00	7280	182.00	1268	273.00	14825	400.90	776
93.00	38064	183.00	776	274.00	42624	402.00	5145
94.00	3059	184.10	2485	275.00	234944	403.00	8365
95.10	927	185.00	14710	276.00	29664	404.00	3051
96.00	1962	186.10	131200	277.00	20840	405.00	418
97.00	1088	187.00	34592	278.00	3036	415.10	393
98.00	30656	188.10	3303	279.10	718	421.00	7241
99.00	24168	189.00	6593	282.10	418	422.00	7821
100.00	2137	190.00	1691	283.00	2278	423.00	56392
101.00	17112	191.00	3385	284.10	1316	424.00	12495
102.10	707	192.00	8960	285.10	3296	425.10	1266
103.00	4533	193.00	9389	285.90	753	426.00	314
104.00	8374	194.10	2520	288.90	1173	427.00	462
105.00	9548	194.90	1781	290.00	670	427.60	218
106.00	3865	196.10	28664	291.10	577	428.30	410
107.00	129648	198.00	941120	292.00	912	428.90	223
108.00	20000	199.00	61496	293.00	4149	429.40	266
109.10	3956	200.00	4066	294.00	755	430.10	379

Data File: \\SV5\C\chem\sv5.i\120710.B\DFT1207.D

Date : 07-DEC-2010 18:58

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT1207.D
Spectrum: HP ChemStation MS DFT1207.D, Scan 291: 10.092 min.
Location of Maximum: 442.00
Number of points: 351

m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	249792	201.50	5425	295.00	1487	430.90	416
111.00	38184	202.00	1868	296.00	58960	431.30	450
112.00	4016	203.00	6341	297.10	9033	431.90	648
113.00	1059	204.00	32360	298.00	587	433.30	505
114.10	459	205.00	52464	298.90	288	434.30	639
116.00	7217	206.10	224128	301.00	790	434.80	729
117.00	88136	207.10	28424	302.00	1321	435.30	936
118.00	5460	208.00	6671	303.00	7805	436.50	1169
119.00	753	209.00	2153	304.00	2026	437.70	1425
120.10	1815	210.00	3375	305.10	340	438.50	2401
121.10	320	211.10	8023	308.00	806	439.30	2087
122.00	8059	212.00	1700	309.00	451	439.70	2173
123.00	13316	212.90	685	310.10	976	441.00	153408
124.00	5505	214.00	240	311.00	287	442.00	1046912
125.10	6360	215.00	2484	312.10	251	443.00	200896
127.00	486592	216.10	4575	313.00	923	444.00	19040
128.00	34736	217.00	57208	314.00	3152	444.90	845
129.00	192128	218.00	5655	315.00	7047		

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\120710.B\S120705.D
Lab Smp Id: MAR231AA G0L020000- Client Smp ID: 0336447
Inj Date : 07-DEC-2010 22:12
Operator : KT Inst ID: sv5.i
Smp Info : MAR231AA G0L020000-447B;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0336447;8270F.M
Comment : SOP SAC-MS-0005
Method : \\SV5\C\chem\sv5.i\120710.B\8270F.m
Meth Date : 08-Dec-2010 09:16 semivoa Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 5
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	3.532	3.532	(1.000)	103129	40.0000		(q)
* 2	Naphthalene-d8	136	4.941	4.941	(1.000)	453376	40.0000		
* 3	Acenaphthene-d10	164	7.024	7.024	(1.000)	242534	40.0000		
* 4	Phenanthrene-d10	188	8.879	8.879	(1.000)	404292	40.0000		
* 5	Chrysene-d12	240	13.159	13.159	(1.000)	393288	40.0000		
* 6	Perylene-d12	264	15.512	15.522	(1.000)	376254	40.0000		
$ 7	2-Fluorophenol	112	2.330	2.330	(0.660)	260997	71.7993	71.80	
$ 8	Phenol-d5	99	3.221	3.221	(0.912)	368834	80.6884	80.69	
$ 10	1,2-Dichlorobenzene-d4	152	3.729	3.729	(1.056)	85938	33.8355	33.84	(q)
$ 11	Nitrobenzene-d5	82	4.154	4.154	(0.841)	152047	39.5952	39.60	
$ 12	2-Fluorobiphenyl	172	6.247	6.247	(0.889)	329259	42.1437	42.14	
$ 13	2,4,6-Tribromophenol	330	7.998	7.998	(1.139)	105503	100.107	100.1	
$ 14	Terphenyl-d14	244	11.439	11.439	(0.869)	367384	47.4244	47.42	
108	Hexachlorobenzene	284	Compound Not Detected.						

12/8/10

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: S120705.D
Lab Smp Id: MAR231AA G0L020000-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\120710.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0336447;8270F.M

Calibration Date: 07-DEC-2010
Calibration Time: 19:43
Client Smp ID: 0336447
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	103129	-15.90
2 Naphthalene-d8	530514	265257	1061028	453376	-14.54
3 Acenaphthene-d10	282538	141269	565076	242534	-14.16
4 Phenanthrene-d10	462722	231361	925444	404292	-12.63
5 Chrysene-d12	435850	217925	871700	393288	-9.77
6 Perylene-d12	422284	211142	844568	376254	-10.90

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.53	3.03	4.03	3.53	-0.00
2 Naphthalene-d8	4.94	4.44	5.44	4.94	-0.00
3 Acenaphthene-d10	7.02	6.52	7.52	7.02	-0.00
4 Phenanthrene-d10	8.88	8.38	9.38	8.88	-0.00
5 Chrysene-d12	13.16	12.66	13.66	13.16	-0.00
6 Perylene-d12	15.52	15.02	16.02	15.51	-0.07

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

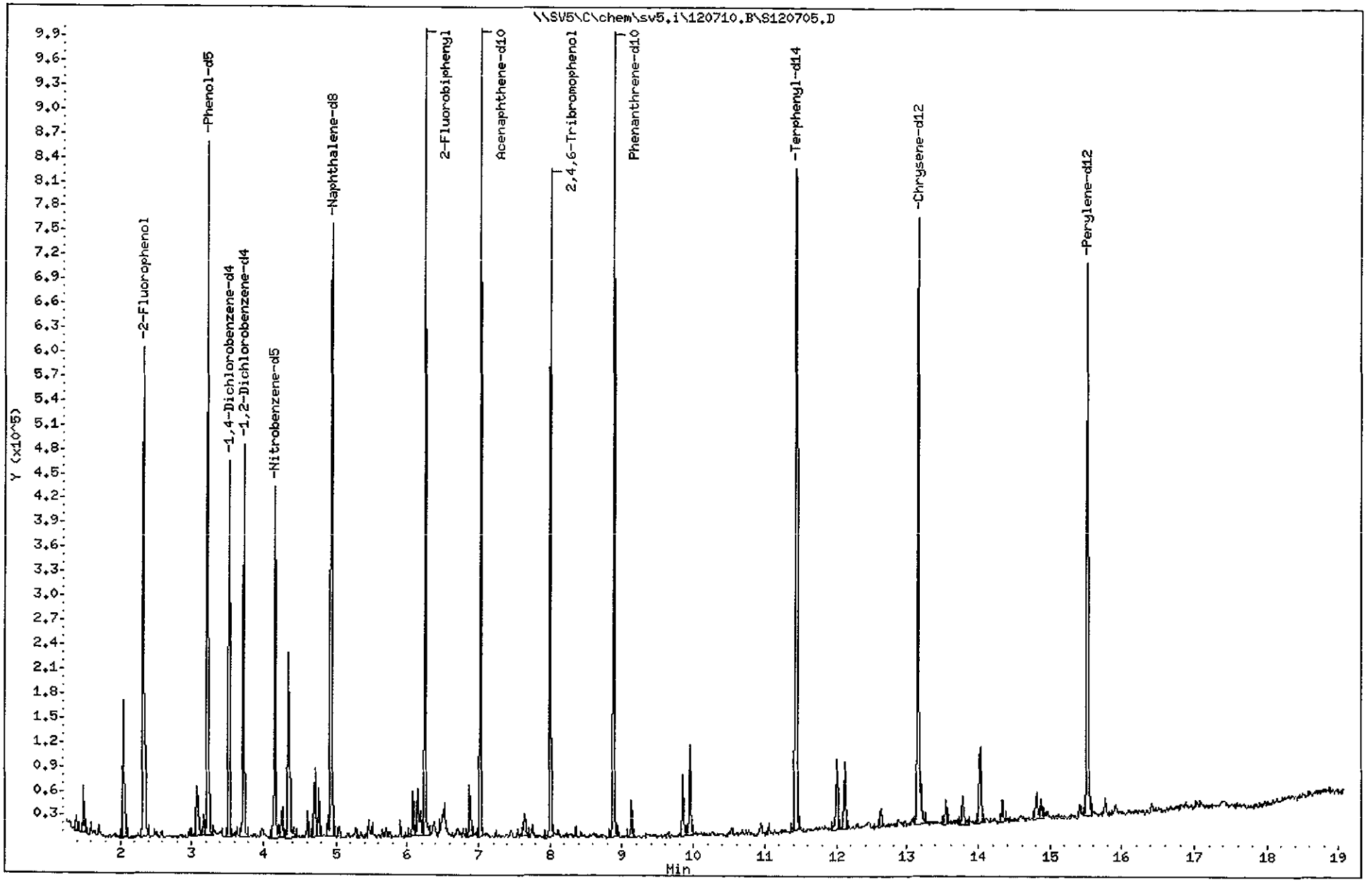
RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MAR231AA G0L020000- Client Smp ID: 0336447
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\120710.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0336447;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	71.80	71.80	41-105
$ 8 Phenol-d5	100.0	80.69	80.69	43-122
$ 10 1,2-Dichlorobenzen	50.00	33.84	67.67	60-120
$ 11 Nitrobenzene-d5	50.00	39.60	79.19	46-118
$ 12 2-Fluorobiphenyl	50.00	42.14	84.29	58-105
$ 13 2,4,6-Tribromophen	100.0	100.1	100.11	61-118
$ 14 Terphenyl-d14	50.00	47.42	94.85	69-110

Data File: \\SV5\C\chem\sv5.i\120710.B\S120705.D
Date : 07-DEC-2010 22:12
Client ID: 0336447
Sample Info: MAR231AA GOL020000-447B;0;;;1000;;1000;5
Volume Injected (uL): 1.0
Column phase:

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



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\120710.B\S120706.D
Lab Smp Id: MAR231AC G0L020000-
Inj Date : 07-DEC-2010 22:36
Operator : KT Inst ID: sv5.i
Smp Info : MAR231AC G0L020000-447C;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\120710.B\8270F.m
Meth Date : 08-Dec-2010 09:16 semivoa Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 6 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	3.532	3.532	(1.000)	110216	40.0000		(q)
* 2	Naphthalene-d8	136	4.941	4.941	(1.000)	452013	40.0000		
* 3	Acenaphthene-d10	164	7.024	7.024	(1.000)	250253	40.0000		
* 4	Phenanthrene-d10	188	8.879	8.879	(1.000)	402633	40.0000		
* 5	Chrysene-d12	240	13.159	13.159	(1.000)	401152	40.0000		
* 6	Perylene-d12	264	15.522	15.522	(1.000)	398287	40.0000		
$ 7	2-Fluorophenol	112	2.330	2.330	(0.660)	299882	77.1918	77.19	
$ 8	Phenol-d5	99	3.221	3.221	(0.912)	406171	83.1429	83.14	
$ 10	1,2-Dichlorobenzene-d4	152	Compound Not Detected.						
$ 11	Nitrobenzene-d5	82	4.154	4.154	(0.841)	172361	45.0206	45.02	
$ 12	2-Fluorobiphenyl	172	6.247	6.247	(0.889)	369712	45.8619	45.86	
$ 13	2,4,6-Tribromophenol	330	7.998	7.998	(1.139)	119555	109.942	109.9	
$ 14	Terphenyl-d14	244	11.439	11.439	(0.869)	380177	48.1138	48.11	
108	Hexachlorobenzene	284	8.475	8.475	(0.954)	212588	96.8505	96.85	

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

12/8/10

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S120706.D
Lab Smp Id: MAR231AC G0L020000-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\120710.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

Calibration Date: 07-DEC-2010
Calibration Time: 19:43
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	110216	-10.12
2 Naphthalene-d8	530514	265257	1061028	452013	-14.80
3 Acenaphthene-d10	282538	141269	565076	250253	-11.43
4 Phenanthrene-d10	462722	231361	925444	402633	-12.99
5 Chrysene-d12	435850	217925	871700	401152	-7.96
6 Perylene-d12	422284	211142	844568	398287	-5.68

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.53	3.03	4.03	3.53	-0.01
2 Naphthalene-d8	4.94	4.44	5.44	4.94	-0.00
3 Acenaphthene-d10	7.02	6.52	7.52	7.02	-0.00
4 Phenanthrene-d10	8.88	8.38	9.38	8.88	-0.00
5 Chrysene-d12	13.16	12.66	13.66	13.16	-0.00
6 Perylene-d12	15.52	15.02	16.02	15.52	-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: MAR231AC G0L020000-
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\120710.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	96.85	96.85	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	77.19	77.19	41-105
$ 8 Phenol-d5	100.0	83.14	83.14	43-122
$ 10 1,2-Dichlorobenze	50.00	0.0000	*	60-120
$ 11 Nitrobenzene-d5	50.00	45.02	90.04	46-118
$ 12 2-Fluorobiphenyl	50.00	45.86	91.72	58-105
$ 13 2,4,6-Tribromophen	100.0	109.9	109.94	61-118
$ 14 Terphenyl-d14	50.00	48.11	96.23	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\120710.B\S120706.D
Lab Smp Id: MAR231AC G0L020000-
Inj Date : 07-DEC-2010 22:36
Operator : KT Inst ID: sv5.i
Smp Info : MAR231AC G0L020000-447C;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\120710.B\8270F.m
Meth Date : 08-Dec-2010 09:16 semivoa Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 6 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

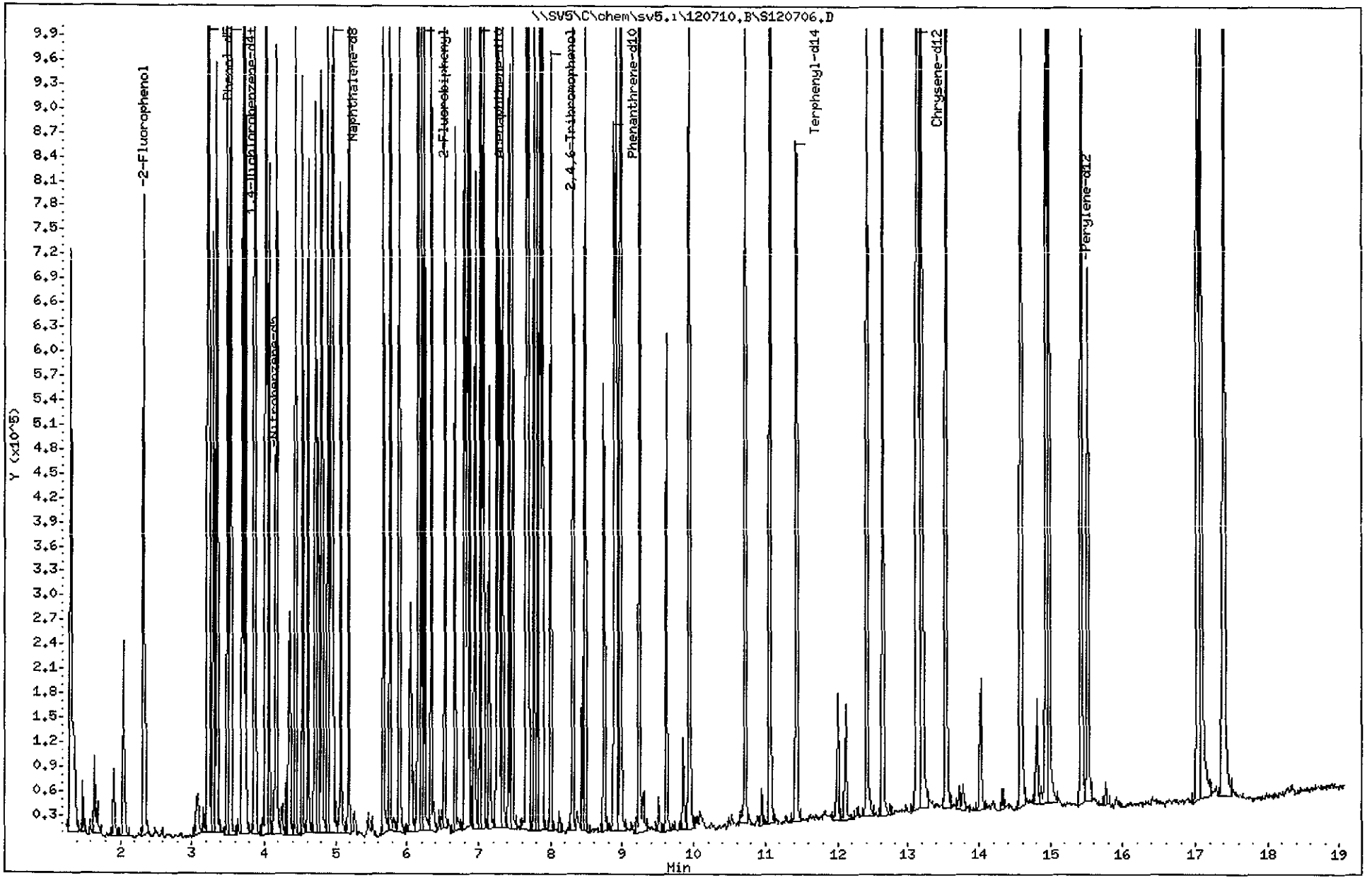
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	
*	1 1,4-Dichlorobenzene-d4	152	3.532	3.532	(1.000)	110216	40.0000		(q)
*	2 Naphthalene-d8	136	4.941	4.941	(1.000)	452013	40.0000		
*	3 Acenaphthene-d10	164	7.024	7.024	(1.000)	250253	40.0000		
*	4 Phenanthrene-d10	188	8.879	8.879	(1.000)	402633	40.0000		
*	5 Chrysene-d12	240	13.159	13.159	(1.000)	401152	40.0000		
*	6 Perylene-d12	264	15.522	15.522	(1.000)	398287	40.0000		
$	7 2-Fluorophenol	112	2.330	2.330	(0.660)	299882	77.1918	77.19	
$	8 Phenol-d5	99	3.221	3.221	(0.912)	406171	83.1429	83.14	
$	10 1,2-Dichlorobenzene-d4	152	3.532	3.729	(1.000)	110218	40.6047	40.60	
$	11 Nitrobenzene-d5	82	4.154	4.154	(0.841)	172361	45.0206	45.02	
$	12 2-Fluorobiphenyl	172	6.247	6.247	(0.889)	369712	45.8619	45.86	
$	13 2,4,6-Tribromophenol	330	7.998	7.998	(1.139)	119555	109.942	109.9	
$	14 Terphenyl-d14	244	11.439	11.439	(0.869)	380177	48.1138	48.11	
	108 Hexachlorobenzene	284	8.475	8.475	(0.954)	212588	96.8505	96.85	

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

Data File: \\SV5\C\chem\sv5.i\120710.B\S120706.D
Date : 07-DEC-2010 22:36
Client ID:
Sample Info: MAR231AC GOL020000-447C;3;LCS;;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\120710.B\S120706.D

Date : 07-DEC-2010 22:36

Client ID:

Instrument: sv5.i

Sample Info: HAR231AC GOL020000-447C;3;LCS;;1000;;1000;2

Volume Injected (uL): 1.0

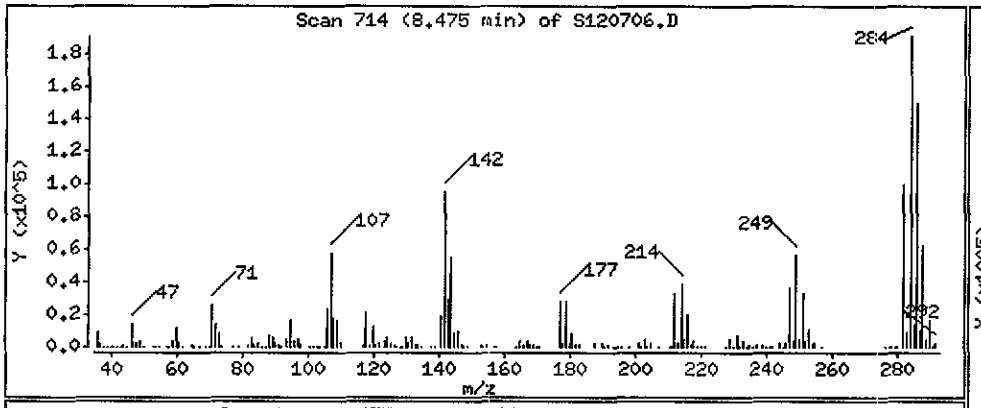
Operator: KT

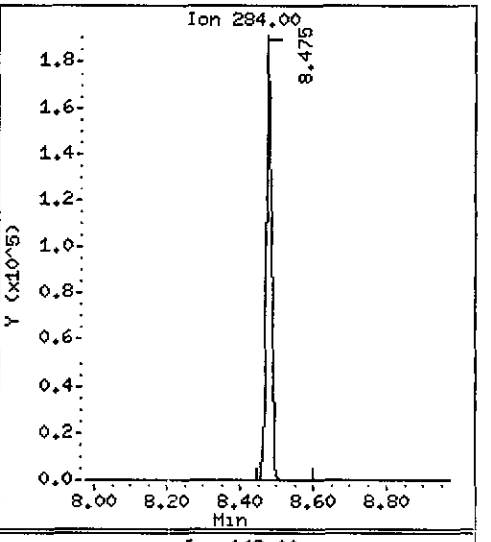
Column phase:

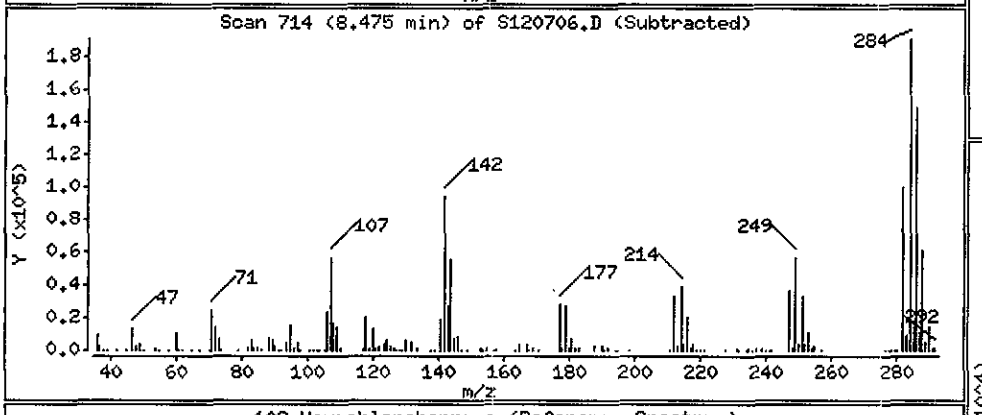
Column diameter: 2.00

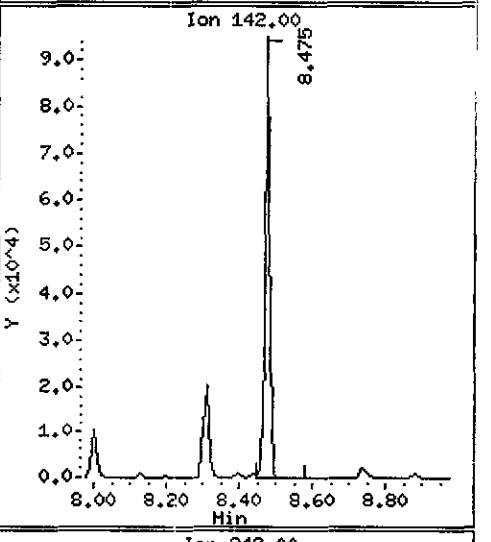
108 Hexachlorobenzene

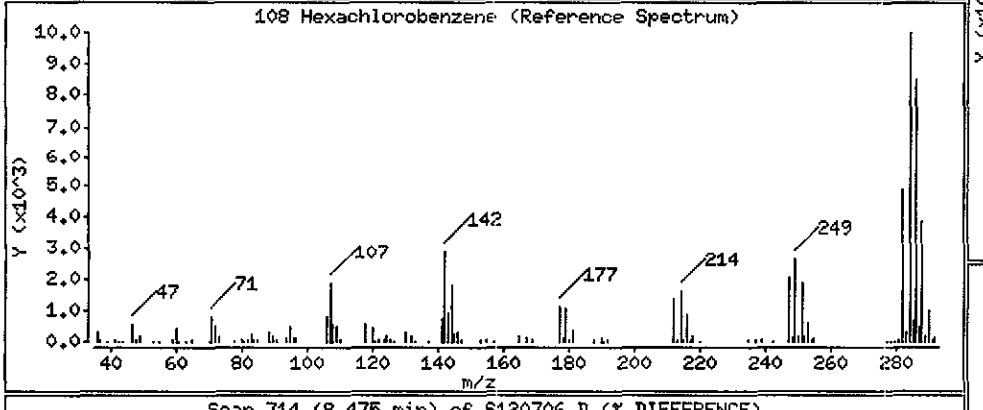
Concentration: 96.85 ug/L

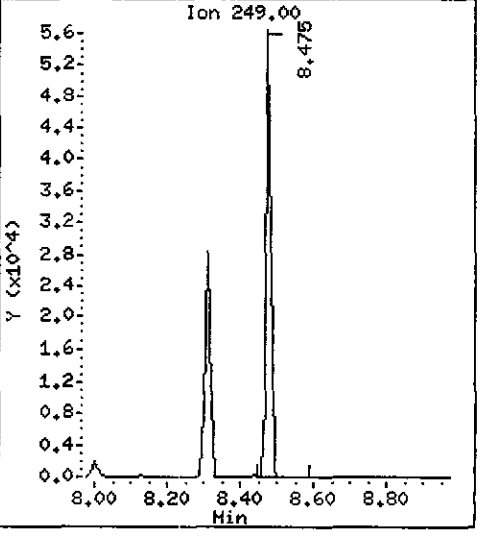


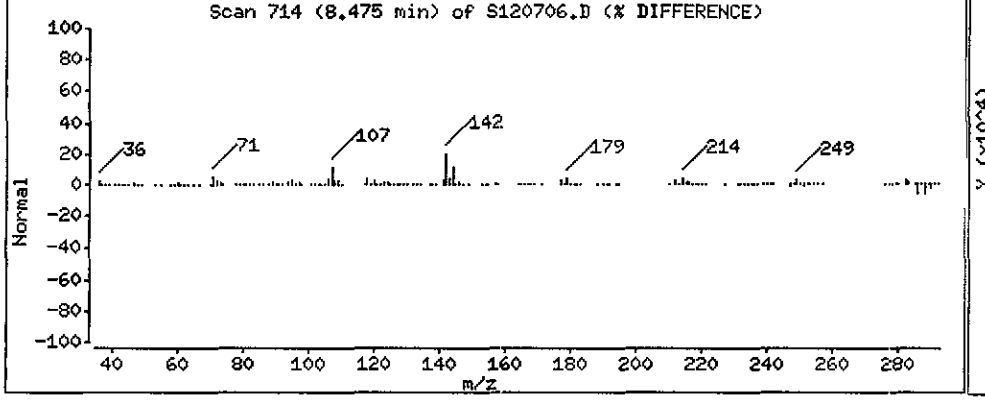












TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\120710.B\S120707.D
Lab Smp Id: MAR231AD G0L020000-
Inj Date : 07-DEC-2010 23:01
Operator : KT Inst ID: sv5.i
Smp Info : MAR231AD G0L020000-447L;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\120710.B\8270F.m
Meth Date : 08-Dec-2010 09:16 semivoa Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 7 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)	CONCENTRATIONS FINAL (ug/L)	
*	1 1,4-Dichlorobenzene-d4	152	3.532	3.532	(1.000)	67642	40.0000		(q)
*	2 Naphthalene-d8	136	4.941	4.941	(1.000)	273676	40.0000		
*	3 Acenaphthene-d10	164	7.024	7.024	(1.000)	146806	40.0000		
*	4 Phenanthrene-d10	188	8.879	8.879	(1.000)	236672	40.0000		
*	5 Chrysene-d12	240	13.159	13.159	(1.000)	231078	40.0000		
*	6 Perylene-d12	264	15.512	15.522	(1.000)	228965	40.0000		
$	7 2-Fluorophenol	112	2.330	2.330	(0.660)	194258	81.4756	81.48	
$	8 Phenol-d5	99	3.221	3.221	(0.912)	251713	83.9557	83.96	
$	10 1,2-Dichlorobenzene-d4	152	Compound Not Detected.						
$	11 Nitrobenzene-d5	82	4.154	4.154	(0.841)	107460	46.3590	46.36	
$	12 2-Fluorobiphenyl	172	6.247	6.247	(0.889)	229000	48.4239	48.42	
$	13 2,4,6-Tribromophenol	330	7.999	7.998	(1.139)	69364	108.734	108.7	
$	14 Terphenyl-d14	244	11.429	11.439	(0.868)	214041	47.0252	47.02	
	108 Hexachlorobenzene	284	8.475	8.475	(0.954)	127882	99.1140	99.11	

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

12/8/10

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S120707.D
Lab Smp Id: MAR231AD G0L020000-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\120710.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

Calibration Date: 07-DEC-2010
Calibration Time: 19:43
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	67642	-44.84
2 Naphthalene-d8	530514	265257	1061028	273676	-48.41
3 Acenaphthene-d10	282538	141269	565076	146806	-48.04
4 Phenanthrene-d10	462722	231361	925444	236672	-48.85
5 Chrysene-d12	435850	217925	871700	231078	-46.98
6 Perylene-d12	422284	211142	844568	228965	-45.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.53	3.03	4.03	3.53	0.00
2 Naphthalene-d8	4.94	4.44	5.44	4.94	0.00
3 Acenaphthene-d10	7.02	6.52	7.52	7.02	0.00
4 Phenanthrene-d10	8.88	8.38	9.38	8.88	0.00
5 Chrysene-d12	13.16	12.66	13.66	13.16	0.00
6 Perylene-d12	15.52	15.02	16.02	15.51	-0.07

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: MAR231AD G0L020000-
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\120710.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	99.11	99.11	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	81.48	81.48	41-105
$ 8 Phenol-d5	100.0	83.96	83.96	43-122
$ 10 1,2-Dichlorobenze	50.00	0.0000	*	60-120
$ 11 Nitrobenzene-d5	50.00	46.36	92.72	46-118
$ 12 2-Fluorobiphenyl	50.00	48.42	96.85	58-105
$ 13 2,4,6-Tribromophen	100.0	108.7	108.73	61-118
$ 14 Terphenyl-d14	50.00	47.02	94.05	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\120710.B\S120707.D
Lab Smp Id: MAR231AD G0L020000-
Inj Date : 07-DEC-2010 23:01
Operator : KT Inst ID: sv5.i
Smp Info : MAR231AD G0L020000-447L;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\120710.B\8270F.m
Meth Date : 08-Dec-2010 09:16 semivoa Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 7 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

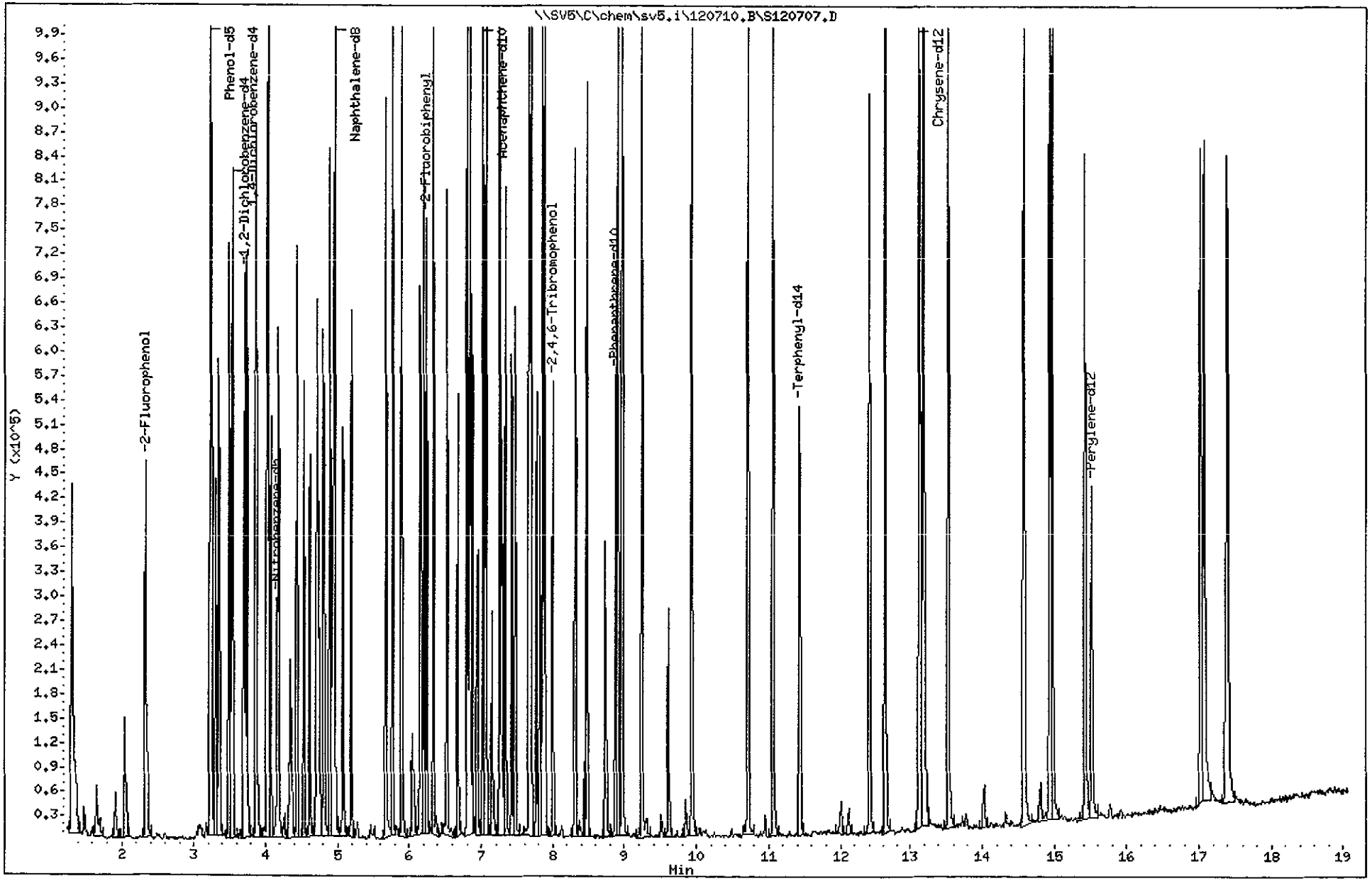
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 1	1,4-Dichlorobenzene-d4	152	3.532	3.532	(1.000)	67642	40.0000	(q)
* 2	Naphthalene-d8	136	4.941	4.941	(1.000)	273676	40.0000	
* 3	Acenaphthene-d10	164	7.024	7.024	(1.000)	146806	40.0000	
* 4	Phenanthrene-d10	188	8.879	8.879	(1.000)	236672	40.0000	
* 5	Chrysene-d12	240	13.159	13.159	(1.000)	231078	40.0000	
* 6	Perylene-d12	264	15.512	15.522	(1.000)	228965	40.0000	
$ 7	2-Fluorophenol	112	2.330	2.330	(0.660)	194258	81.4756	81.48
$ 8	Phenol-d5	99	3.221	3.221	(0.912)	251713	83.9557	83.96
$ 10	1,2-Dichlorobenzene-d4	152	3.750	3.729	(1.062)	157	0.09424	0.09424(QR)
$ 11	Nitrobenzene-d5	82	4.154	4.154	(0.841)	107460	46.3590	46.36
$ 12	2-Fluorobiphenyl	172	6.247	6.247	(0.889)	229000	48.4239	48.42
$ 13	2,4,6-Tribromophenol	330	7.999	7.998	(1.139)	69364	108.734	108.7
$ 14	Terphenyl-d14	244	11.429	11.439	(0.868)	214041	47.0252	47.02
108	Hexachlorobenzene	284	8.475	8.475	(0.954)	127882	99.1140	99.11

QC Flag Legend

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

Data File: \\SV5\C\chem\sv5.i\120710.B\S120707.D
Date : 07-DEC-2010 23:01
Client ID:
Sample Info: MAR231AD G0L020000-447L;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\120710.B\S120707.D

Date : 07-DEC-2010 23:01

Client ID:

Instrument: sv5.i

Sample Info: MAR231AD GOL020000-447L;3;LCSD;;1000;;1000;2

Volume Injected (uL): 1.0

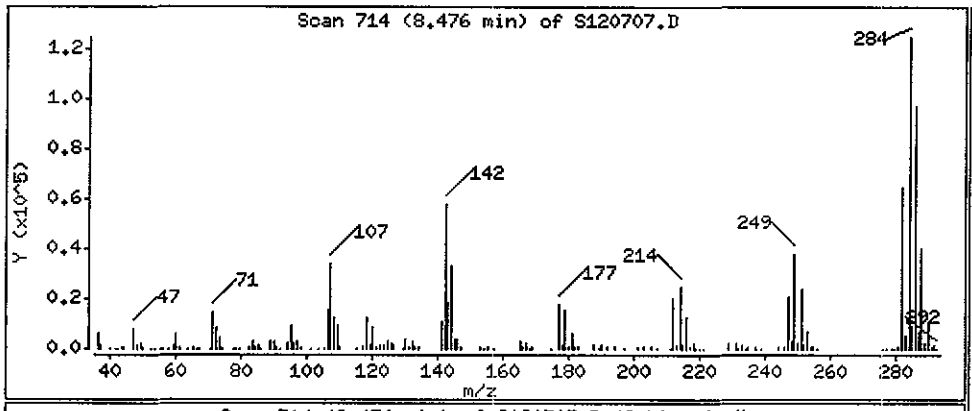
Operator: KT

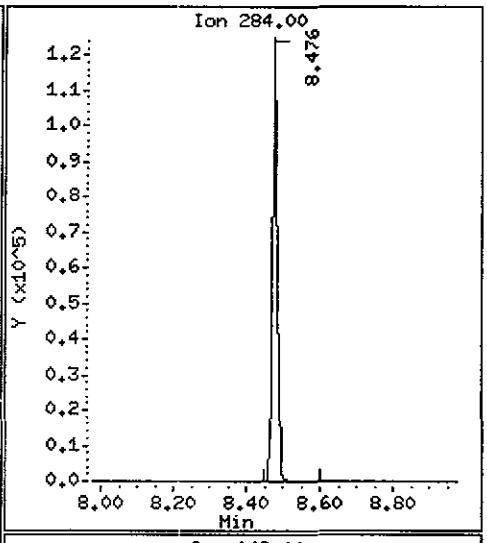
Column phase:

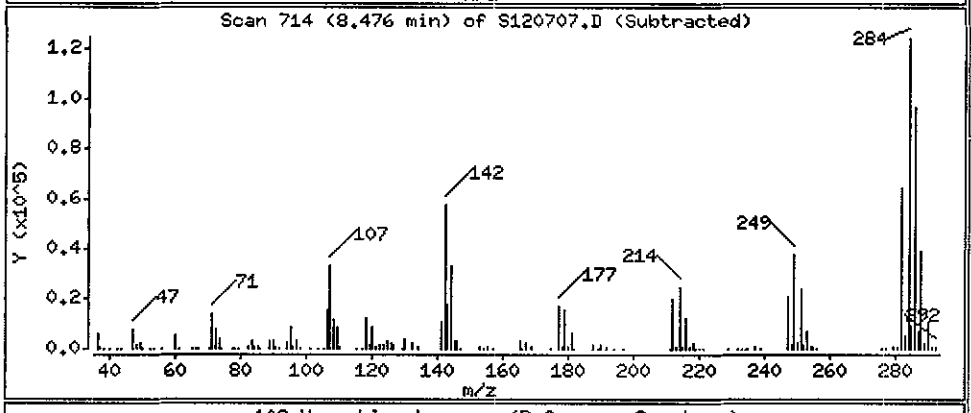
Column diameter: 2.00

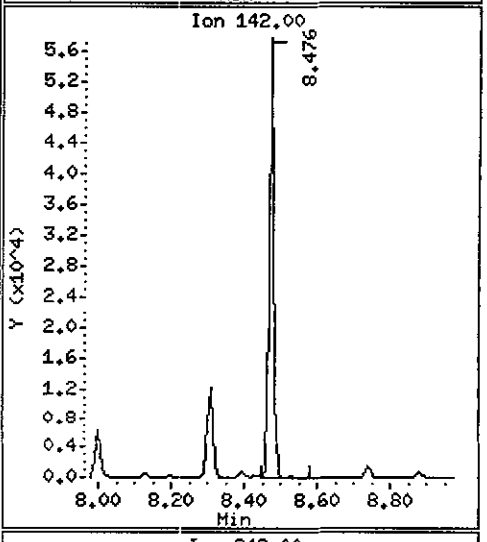
108 Hexachlorobenzene

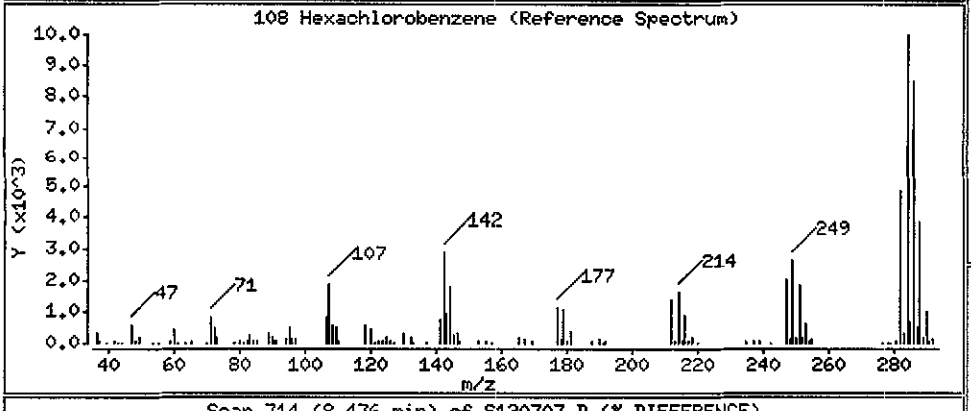
Concentration: 99.11 ug/L

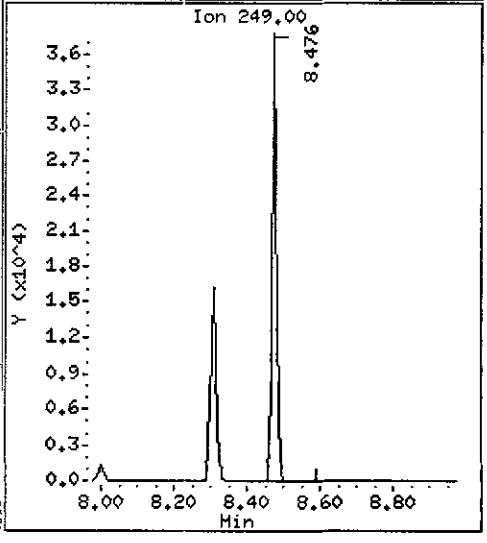


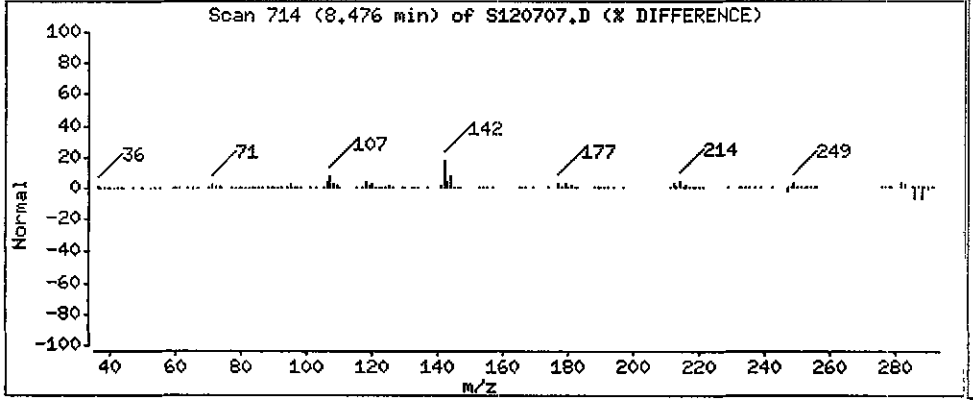












TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\120710.B\S120708.D
Lab Smp Id: MAQQW1AA G0L020446- Client Smp ID: 0336447
Inj Date : 07-DEC-2010 23:25
Operator : KT Inst ID: sv5.i
Smp Info : MAQQW1AA G0L020446-2;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0336447;8270F.M
Comment : SOP SAC-MS-0005
Method : \\SV5\C\chem\sv5.i\120710.B\8270F.m
Meth Date : 08-Dec-2010 09:16 semivoa Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 8
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	3.532	3.532	(1.000)	86800	40.0000	(q)
* 2	Naphthalene-d8	136	4.941	4.941	(1.000)	375915	40.0000	
* 3	Acenaphthene-d10	164	7.024	7.024	(1.000)	207058	40.0000	
* 4	Phenanthrene-d10	188	8.879	8.879	(1.000)	326779	40.0000	
* 5	Chrysene-d12	240	13.159	13.159	(1.000)	343258	40.0000	
* 6	Perylene-d12	264	15.512	15.522	(1.000)	329988	40.0000	
$ 7	2-Fluorophenol	112	2.330	2.330	(0.660)	197455	64.5377	64.54
$ 8	Phenol-d5	99	3.221	3.221	(0.912)	289093	75.1413	75.14
$ 10	1,2-Dichlorobenzene-d4	152	3.729	3.729	(1.056)	56555	26.4557	26.46(qR)
$ 11	Nitrobenzene-d5	82	4.154	4.154	(0.841)	117514	36.9082	36.91
$ 12	2-Fluorobiphenyl	172	6.247	6.247	(0.889)	248223	37.2150	37.21
$ 13	2,4,6-Tribromophenol	330	7.998	7.998	(1.139)	92937	103.293	103.3
$ 14	Terphenyl-d14	244	11.429	11.439	(0.868)	321471	47.5459	47.54
108	Hexachlorobenzene	284	Compound Not Detected.					

QC Flag Legend

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

low surr.
12/8/10

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S120708.D
Lab Smp Id: MAQQW1AA G0L020446-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\120710.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0336447;8270F.M

Calibration Date: 07-DEC-2010
Calibration Time: 19:43
Client Smp ID: 0336447
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	86800	-29.22
2 Naphthalene-d8	530514	265257	1061028	375915	-29.14
3 Acenaphthene-d10	282538	141269	565076	207058	-26.71
4 Phenanthrene-d10	462722	231361	925444	326779	-29.38
5 Chrysene-d12	435850	217925	871700	343258	-21.24
6 Perylene-d12	422284	211142	844568	329988	-21.86

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.53	3.03	4.03	3.53	-0.00
2 Naphthalene-d8	4.94	4.44	5.44	4.94	-0.00
3 Acenaphthene-d10	7.02	6.52	7.52	7.02	-0.00
4 Phenanthrene-d10	8.88	8.38	9.38	8.88	-0.00
5 Chrysene-d12	13.16	12.66	13.66	13.16	-0.00
6 Perylene-d12	15.52	15.02	16.02	15.51	-0.07

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

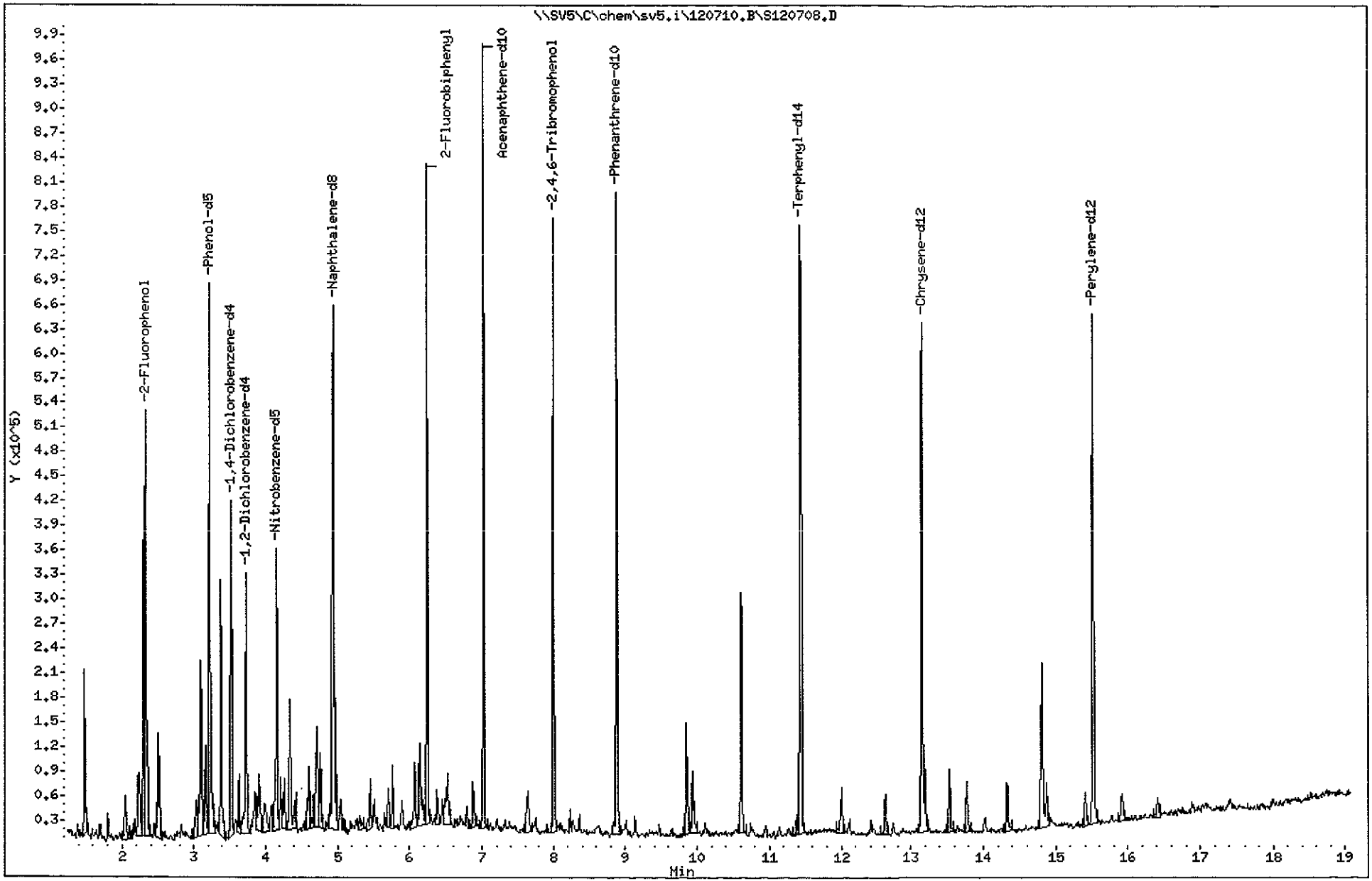
RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MAQQW1AA G0L020446- Client Smp ID: 0336447
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\120710.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0336447;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	64.54	64.54	41-105
$ 8 Phenol-d5	100.0	75.14	75.14	43-122
$ 10 1,2-Dichlorobenzen	50.00	26.46	52.91*	60-120
$ 11 Nitrobenzene-d5	50.00	36.91	73.82	46-118
$ 12 2-Fluorobiphenyl	50.00	37.21	74.43	58-105
$ 13 2,4,6-Tribromophen	100.0	103.3	103.29	61-118
$ 14 Terphenyl-d14	50.00	47.54	95.09	69-110

Data File: \\SV5\C\chem\sv5.i\120710.B\S120708.D
Date : 07-DEC-2010 23:25
Client ID: 0336447
Sample Info: MAQQW1AA GOL020446-2;0;;;1000;;1000;5
Volume Injected (uL): 1.0
Column phase:

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



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\120710.B\S120709.D
Lab Smp Id: MAQQ91AA G0L020446- Client Smp ID: 0336447
Inj Date : 07-DEC-2010 23:50
Operator : KT Inst ID: sv5.i
Smp Info : MAQQ91AA G0L020446-6;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0336447;8270F.M
Comment : SOP SAC-MS-0005
Method : \\SV5\C\chem\sv5.i\120710.B\8270F.m
Meth Date : 08-Dec-2010 09:16 semivoa Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 9
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	3.532	3.532	(1.000)	76411	40.0000	(q)
* 2	Naphthalene-d8	136	4.941	4.941	(1.000)	333708	40.0000	
* 3	Acenaphthene-d10	164	7.024	7.024	(1.000)	179123	40.0000	
* 4	Phenanthrene-d10	188	8.879	8.879	(1.000)	288677	40.0000	
* 5	Chrysene-d12	240	13.159	13.159	(1.000)	287422	40.0000	
* 6	Perylene-d12	264	15.512	15.522	(1.000)	278686	40.0000	
$ 7	2-Fluorophenol	112	2.330	2.330	(0.660)	185302	68.8002	68.80
$ 8	Phenol-d5	99	3.221	3.221	(0.912)	269495	79.5712	79.57
$ 10	1,2-Dichlorobenzene-d4	152	3.729	3.729	(1.056)	57818	30.7238	30.72(Q)
$ 11	Nitrobenzene-d5	82	4.154	4.154	(0.841)	108081	38.2390	38.24
$ 12	2-Fluorobiphenyl	172	6.247	6.247	(0.889)	233362	40.4433	40.44
$ 13	2,4,6-Tribromophenol	330	7.998	7.998	(1.139)	87430	112.327	112.3
$ 14	Terphenyl-d14	244	11.439	11.439	(0.869)	275695	48.6969	48.70
108	Hexachlorobenzene	284	Compound Not Detected.					

12/8/10

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: S120709.D
Lab Smp Id: MAQQ91AA G0L020446-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\120710.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0336447;8270F.M

Calibration Date: 07-DEC-2010
Calibration Time: 19:43
Client Smp ID: 0336447
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	76411	-37.69
2 Naphthalene-d8	530514	265257	1061028	333708	-37.10
3 Acenaphthene-d10	282538	141269	565076	179123	-36.60
4 Phenanthrene-d10	462722	231361	925444	288677	-37.61
5 Chrysene-d12	435850	217925	871700	287422	-34.05
6 Perylene-d12	422284	211142	844568	278686	-34.01

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.53	3.03	4.03	3.53	-0.00
2 Naphthalene-d8	4.94	4.44	5.44	4.94	-0.00
3 Acenaphthene-d10	7.02	6.52	7.52	7.02	-0.00
4 Phenanthrene-d10	8.88	8.38	9.38	8.88	-0.00
5 Chrysene-d12	13.16	12.66	13.66	13.16	-0.00
6 Perylene-d12	15.52	15.02	16.02	15.51	-0.07

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

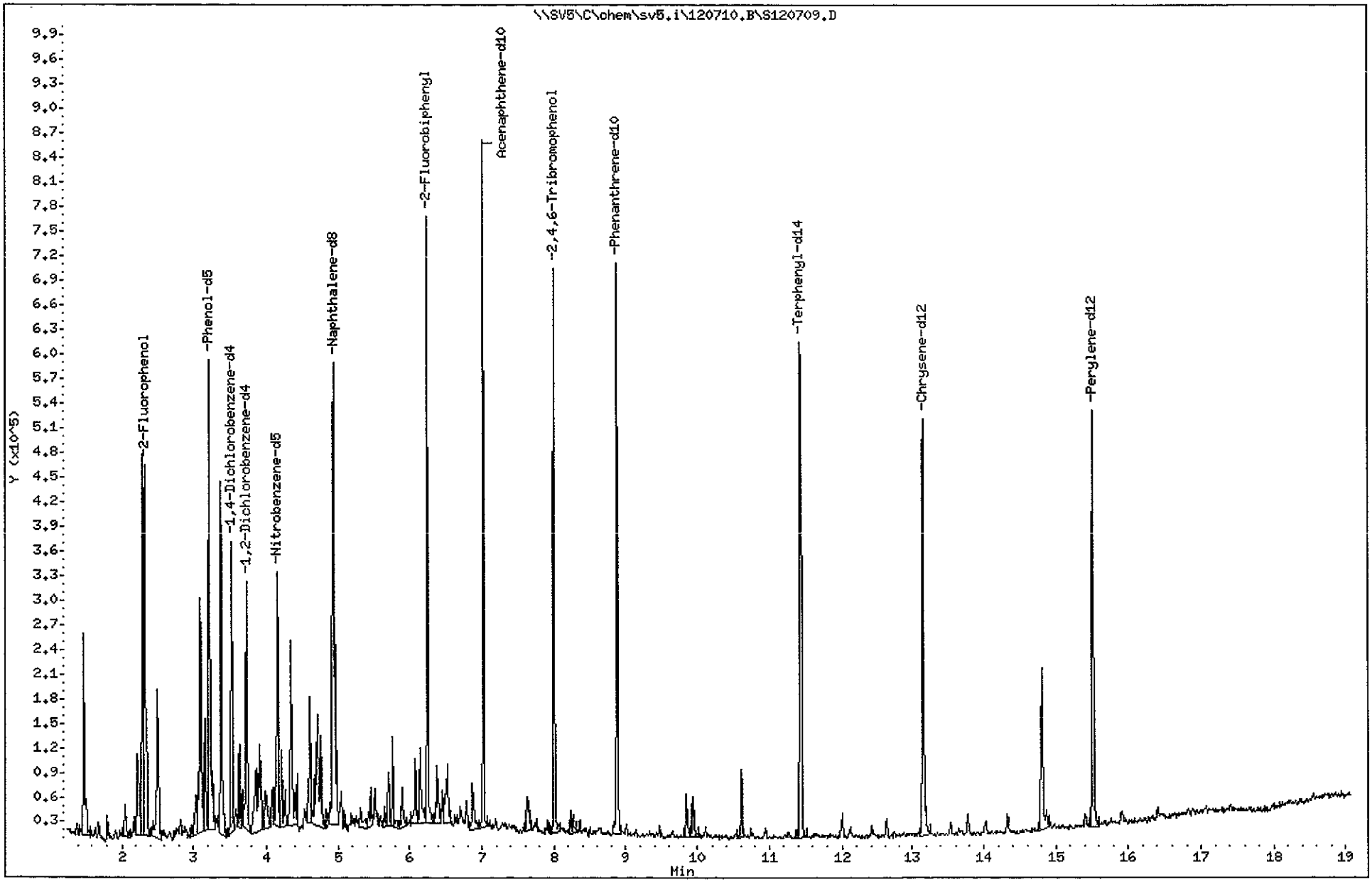
RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MAQQ91AA G0L020446- Client Smp ID: 0336447
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\120710.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0336447;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	68.80	68.80	41-105
$ 8 Phenol-d5	100.0	79.57	79.57	43-122
$ 10 1,2-Dichlorobenzen	50.00	30.72	61.45	60-120
$ 11 Nitrobenzene-d5	50.00	38.24	76.48	46-118
$ 12 2-Fluorobiphenyl	50.00	40.44	80.89	58-105
$ 13 2,4,6-Tribromophen	100.0	112.3	112.33	61-118
$ 14 Terphenyl-d14	50.00	48.70	97.39	69-110

Data File: \\SV5\C\chem\sv5.i\120710.B\S120709.D
Date : 07-DEC-2010 23:50
Client ID: 0336447
Sample Info: MAQQ91AA COL020446-6;0;;;1000;;1000;5
Volume Injected (uL): 1.0
Column phase:

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



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\120710.B\S120710.D
Lab Smp Id: MAQRF1AA G0L020446- Client Smp ID: 0336447
Inj Date : 08-DEC-2010 00:14
Operator : KT Inst ID: sv5.i
Smp Info : MAQRF1AA G0L020446-9;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0336447;8270F.M
Comment : SOP SAC-MS-0005
Method : \\SV5\C\chem\sv5.i\120710.B\8270F.m
Meth Date : 08-Dec-2010 09:16 semivoa Quant Type: ISTD
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D
Als bottle: 10
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	3.532	3.532	(1.000)	73876	40.0000	(q)
* 2	Naphthalene-d8	136	4.941	4.941	(1.000)	312312	40.0000	
* 3	Acenaphthene-d10	164	7.024	7.024	(1.000)	165572	40.0000	
* 4	Phenanthrene-d10	188	8.879	8.879	(1.000)	266360	40.0000	
* 5	Chrysene-d12	240	13.159	13.159	(1.000)	245918	40.0000	
* 6	Perylene-d12	264	15.512	15.522	(1.000)	237228	40.0000	
$ 7	2-Fluorophenol	112	2.330	2.330	(0.660)	178671	68.6145	68.61
$ 8	Phenol-d5	99	3.221	3.221	(0.912)	256293	78.2698	78.27
$ 10	1,2-Dichlorobenzene-d4	152	3.729	3.729	(1.056)	54103	29.7362	29.74(QR)
$ 11	Nitrobenzene-d5	82	4.154	4.154	(0.841)	104646	39.5601	39.56
$ 12	2-Fluorobiphenyl	172	6.247	6.247	(0.889)	226309	42.4309	42.43
$ 13	2,4,6-Tribromophenol	330	7.998	7.998	(1.139)	78567	109.201	109.2
$ 14	Terphenyl-d14	244	11.439	11.439	(0.869)	250489	51.7119	51.71
108	Hexachlorobenzene	284	8.475	8.475	(0.954)	1122	0.77267	0.7727(a)

QC Flag Legend

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

Low surr.
12/8/10

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: S120710.D
Lab Smp Id: MAQRF1AA G0L020446-
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\120710.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0336447;8270F.M

Calibration Date: 07-DEC-2010
Calibration Time: 19:43
Client Smp ID: 0336447
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	73876	-39.75
2 Naphthalene-d8	530514	265257	1061028	312312	-41.13
3 Acenaphthene-d10	282538	141269	565076	165572	-41.40
4 Phenanthrene-d10	462722	231361	925444	266360	-42.44
5 Chrysene-d12	435850	217925	871700	245918	-43.58
6 Perylene-d12	422284	211142	844568	237228	-43.82

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.53	3.03	4.03	3.53	-0.00
2 Naphthalene-d8	4.94	4.44	5.44	4.94	0.00
3 Acenaphthene-d10	7.02	6.52	7.52	7.02	0.00
4 Phenanthrene-d10	8.88	8.38	9.38	8.88	0.00
5 Chrysene-d12	13.16	12.66	13.66	13.16	0.00
6 Perylene-d12	15.52	15.02	16.02	15.51	-0.07

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

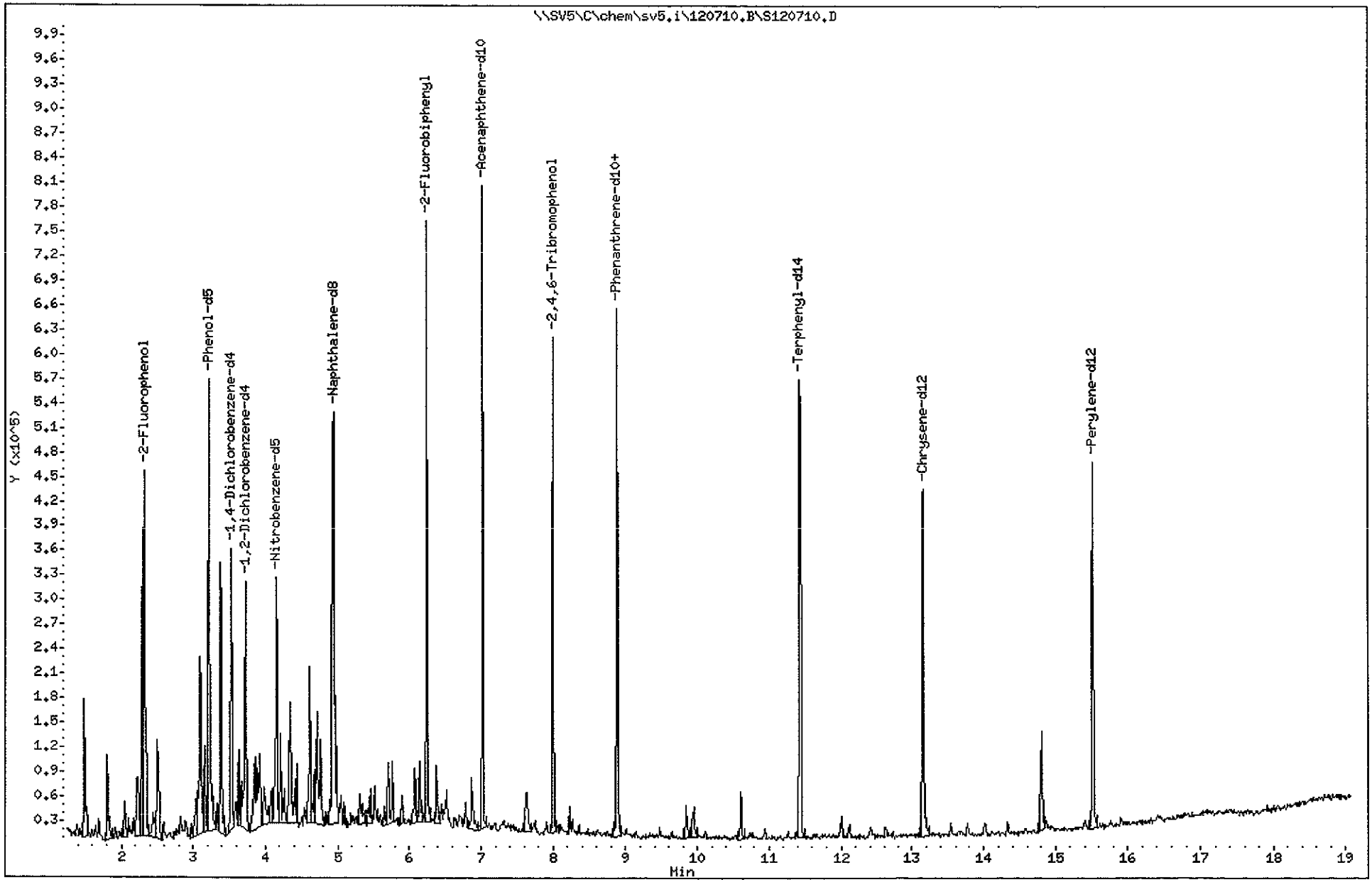
RECOVERY REPORT

Client Name: Client SDG: 090498
Sample Matrix: GAS Fraction: SV
Lab Smp Id: MAQRF1AA G0L020446- Client Smp ID: 0336447
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\120710.B\8270F.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0336447;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	68.61	68.61	41-105
$ 8 Phenol-d5	100.0	78.27	78.27	43-122
$ 10 1,2-Dichlorobenzen	50.00	29.74	59.47*	60-120
$ 11 Nitrobenzene-d5	50.00	39.56	79.12	46-118
$ 12 2-Fluorobiphenyl	50.00	42.43	84.86	58-105
$ 13 2,4,6-Tribromophen	100.0	109.2	109.20	61-118
$ 14 Terphenyl-d14	50.00	51.71	103.42	69-110

Data File: \\SV5\C\chem\sv5.i\120710.B\S120710.D
Date : 08-DEC-2010 00:14
Client ID: 0336447
Sample Info: MAQRF1AA GOL020446-9;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\120710.B\S120710.D

Date : 08-DEC-2010 00:14

Client ID: 0336447

Instrument: sv5.i

Sample Info: MAQRF1AA GOL020446-9;0;;;1000;;1000;5

Volume Injected (uL): 1.0

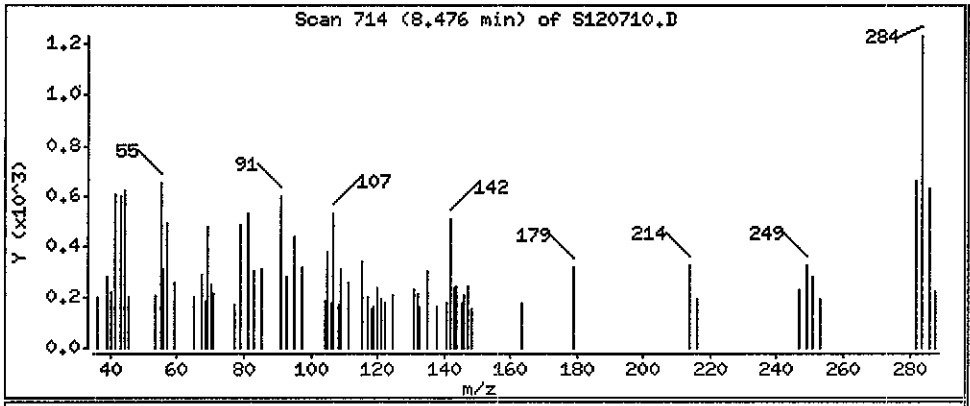
Operator: KT

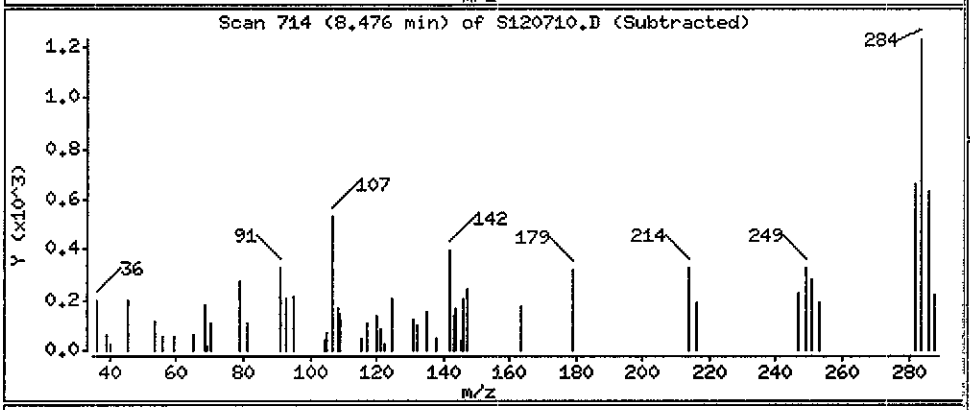
Column phase:

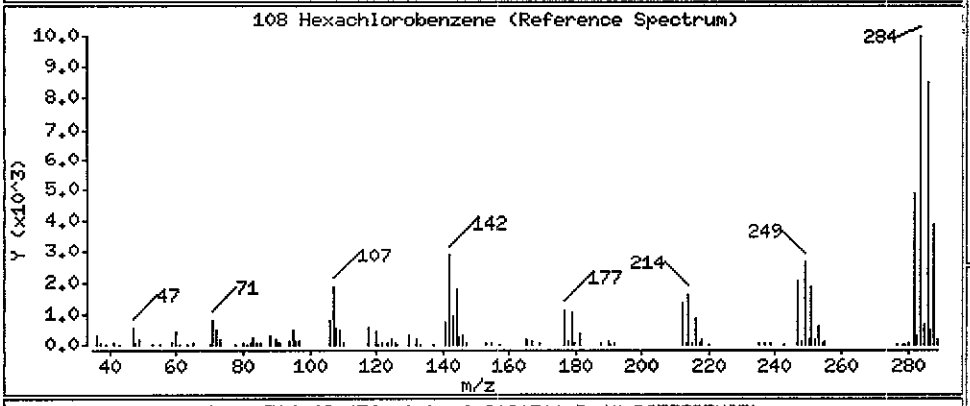
Column diameter: 2.00

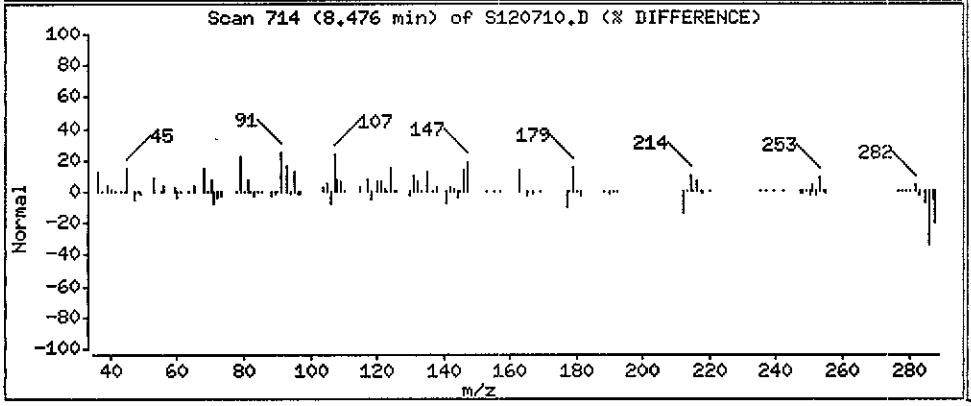
108 Hexachlorobenzene

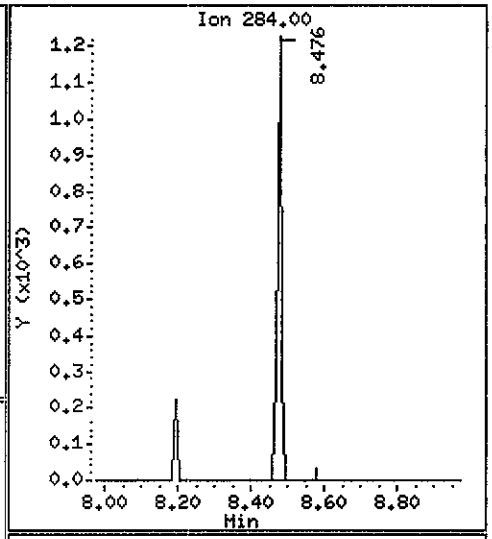
Concentration: 0.7727 ug/L

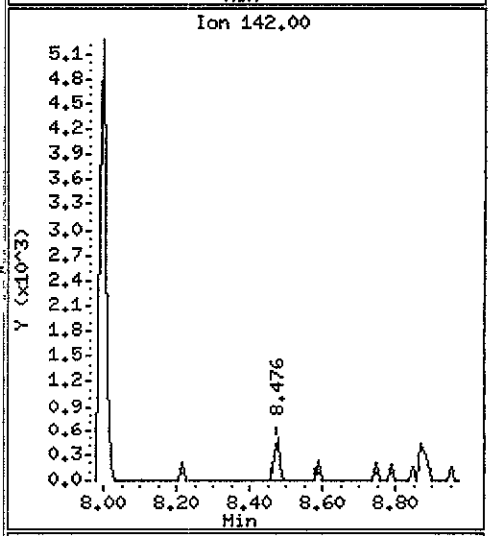


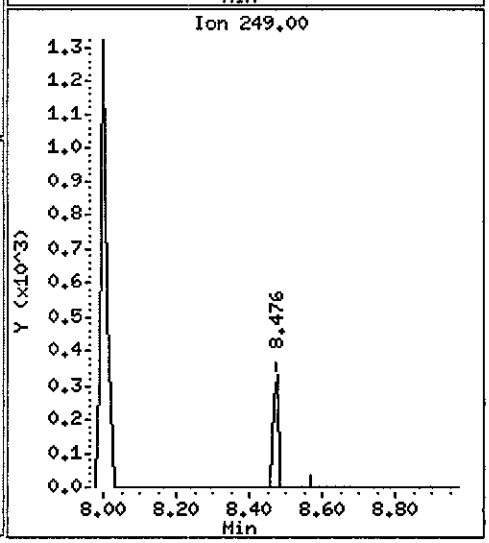












Initial Calibration

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
10/13/10

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	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										
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

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

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

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

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

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

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

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

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	160.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
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	0.43761	0.44905	0.43867	AVRG		0.43288		3.06843

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

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

Compound	5.0000 Level 1	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										
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

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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										
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

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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

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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	0.22084	0.20740	0.21605	0.21731	0.21704					
	0.21854						AVRG		0.21807		3.00928
110 Pentachlorophenol	5849	10561	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

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

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

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

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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	m1	m2	%RSD or R^2
$ 14 Terphenyl-d14	0.78508	0.78616	0.73917	0.80441	0.78047	0.81889						
	0.80107							AVRG		0.78789		3.21384

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

TAILING FACTOR/DEGRADATION SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.6825896	5.000	PASS
Benzidine	0.6244503	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

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

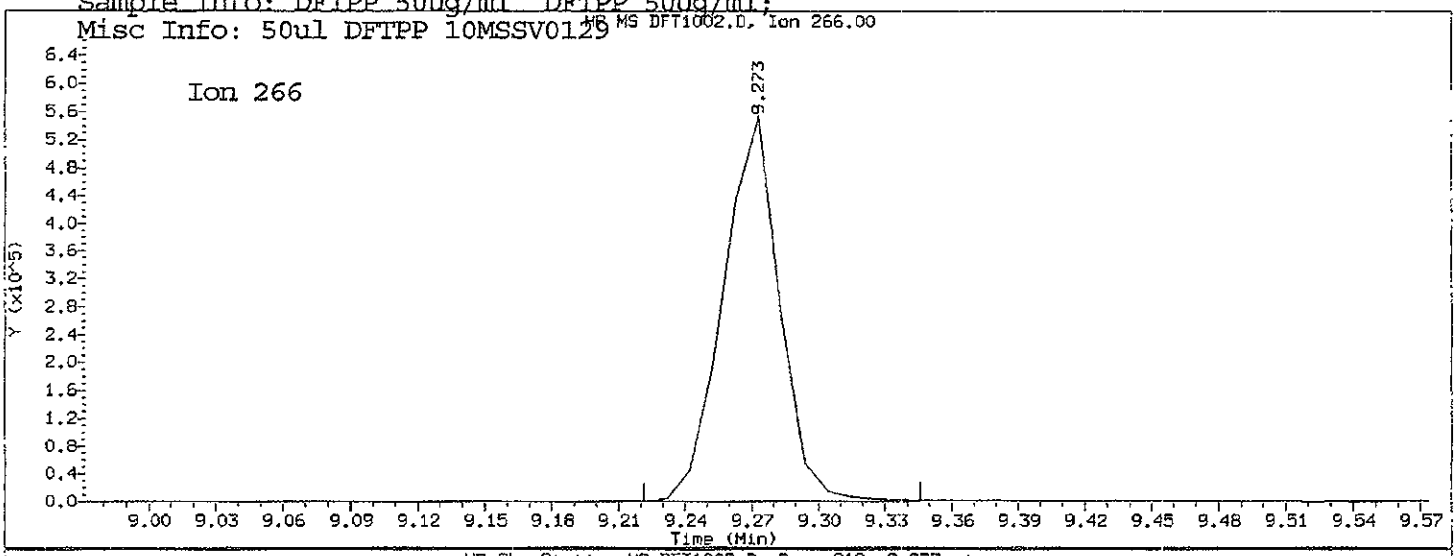
Sample //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D

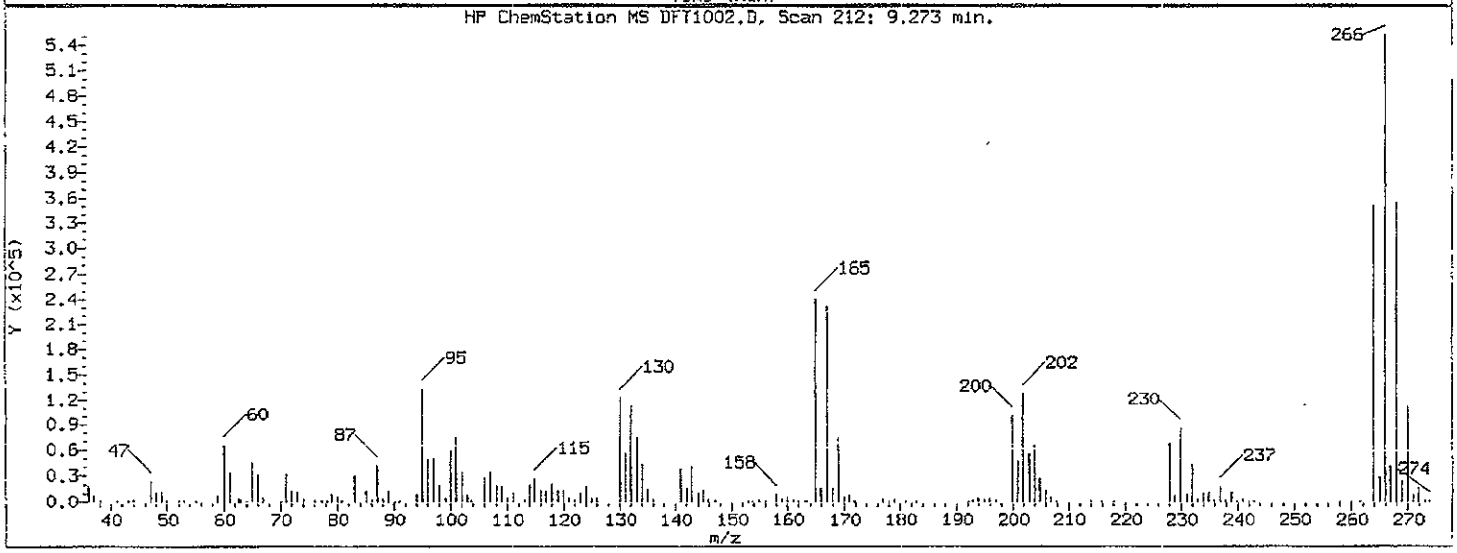
****
*** PASSED ***
****

TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 10/03/2010 11:04

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





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

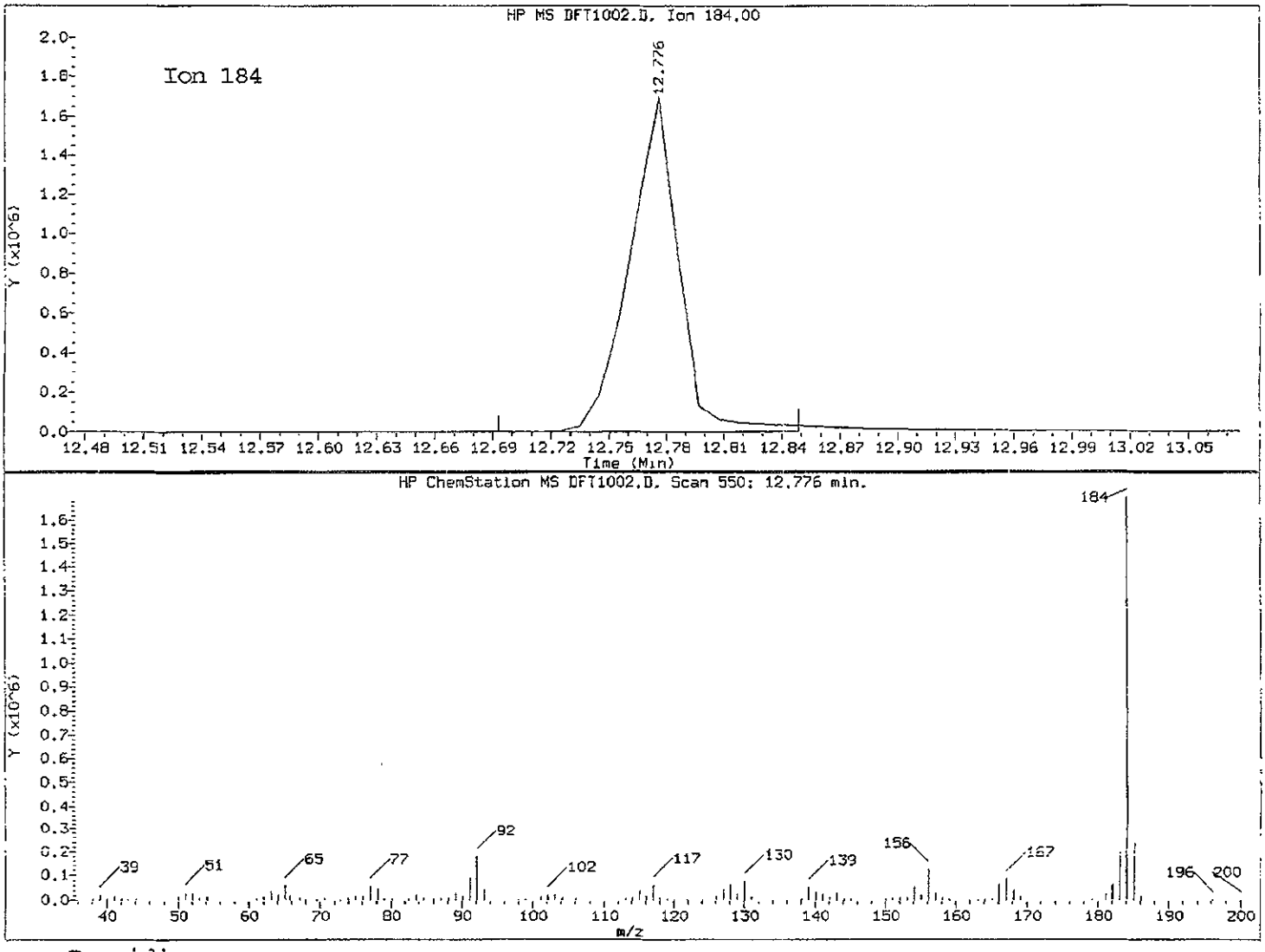
Time1 = 9.243001 Time2 = 9.273333 Time3 = 9.294038
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Pentachlorophenol OK

Tail Factor = 0.683 Maximum Allowed = 5.0

Report Date: 10/03/2010 11:04

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



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

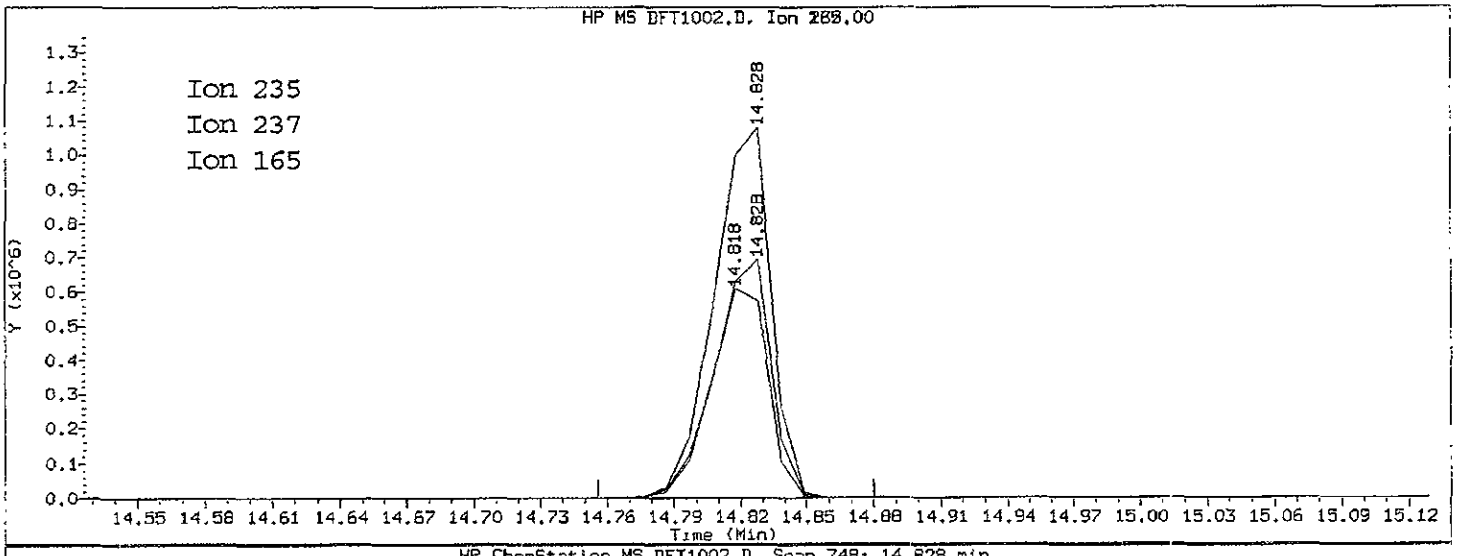
Time1 = 12.74377 Time2 = 12.77603 Time3 = 12.79618
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

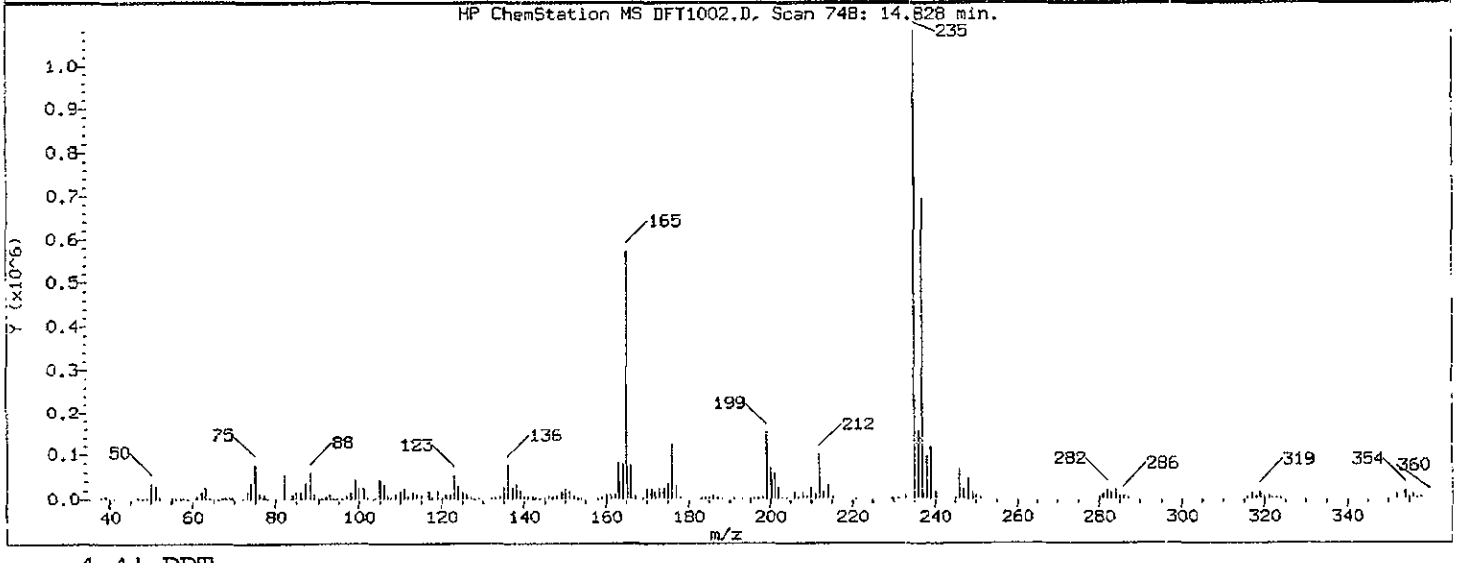
Tailing factor for Benzidine OK

Tail Factor = 0.624 Maximum Allowed = 3.0

Report Date: 10/03/2010 11:04

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



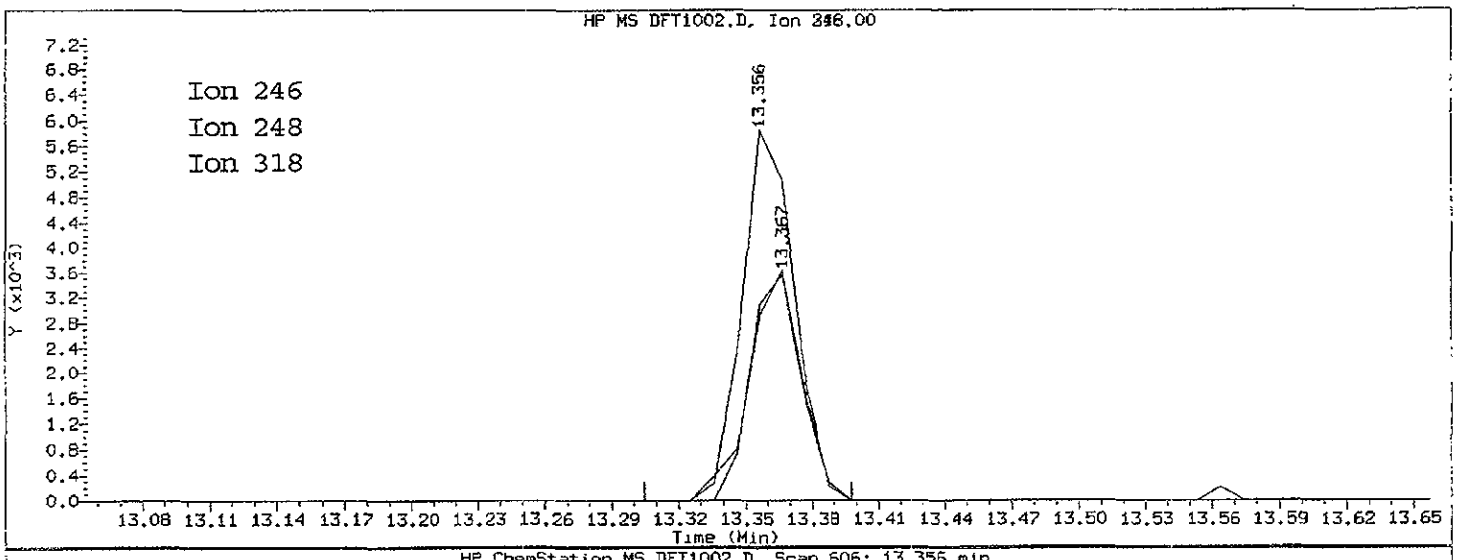


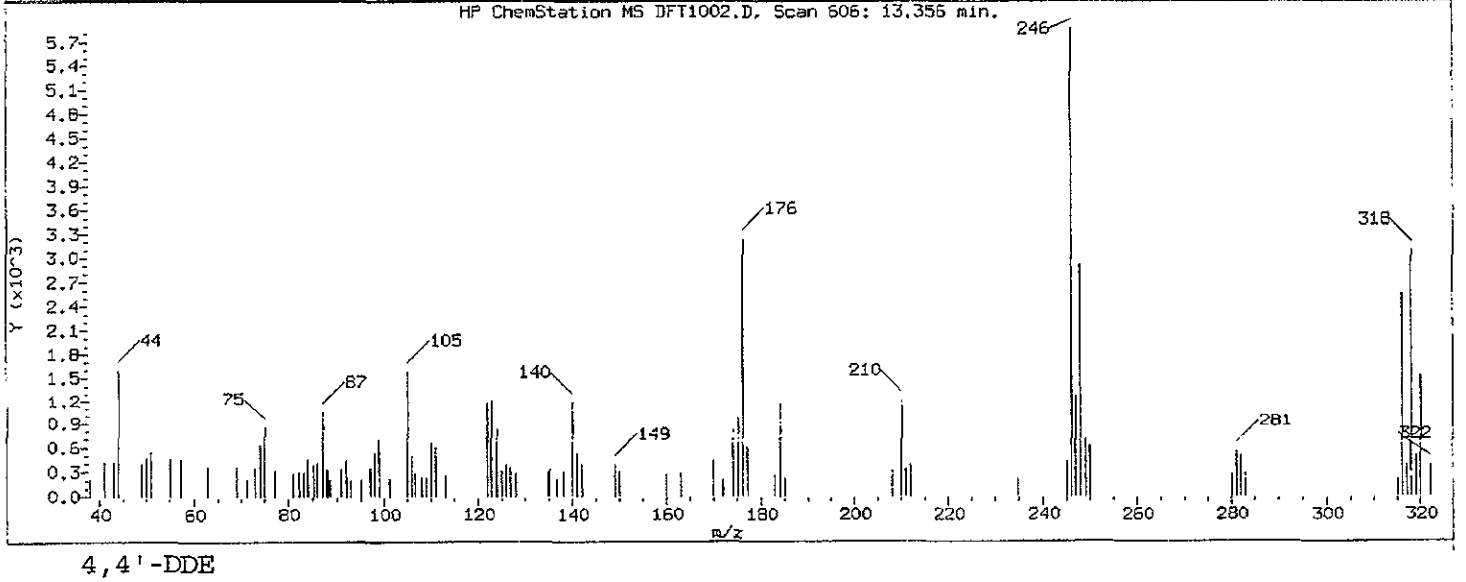
4,4'-DDT
========
Exp. RT = 14.942
Found RT = 14.828

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

Report Date: 10/03/2010 11:04

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



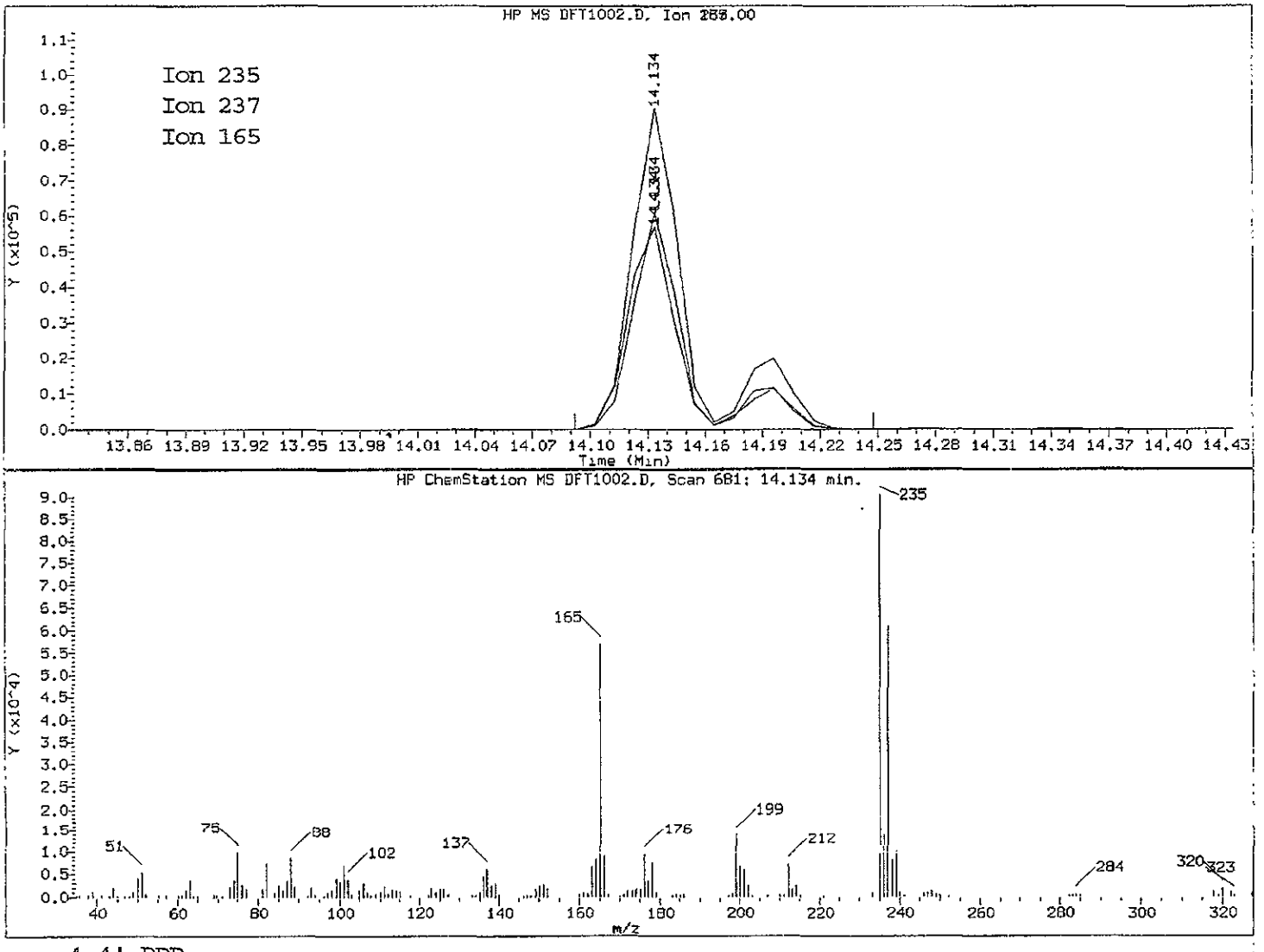


4,4'-DDE
========
Exp. RT = 13.470
Found RT = 13.356

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

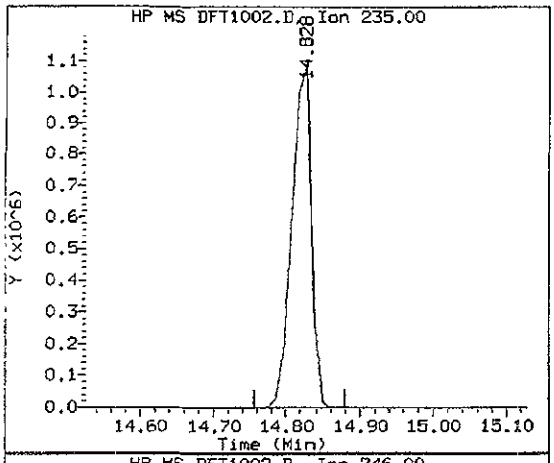
Report Date: 10/03/2010 11:04

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

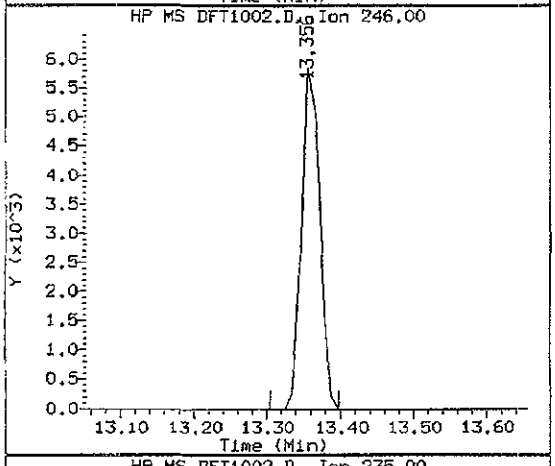


4,4'-DDD
========
Exp. RT = 14.248
Found RT = 14.134

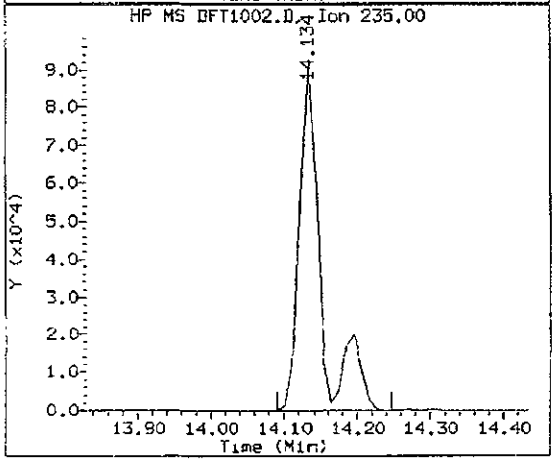
Mass	Area	Ratio
235	180277	100.00
237	115795	64.23
165	113090	62.73



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



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



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

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

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

TestAmerica West Sacramento

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

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

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

Date : 02-OCT-2010 12:06

Client ID:

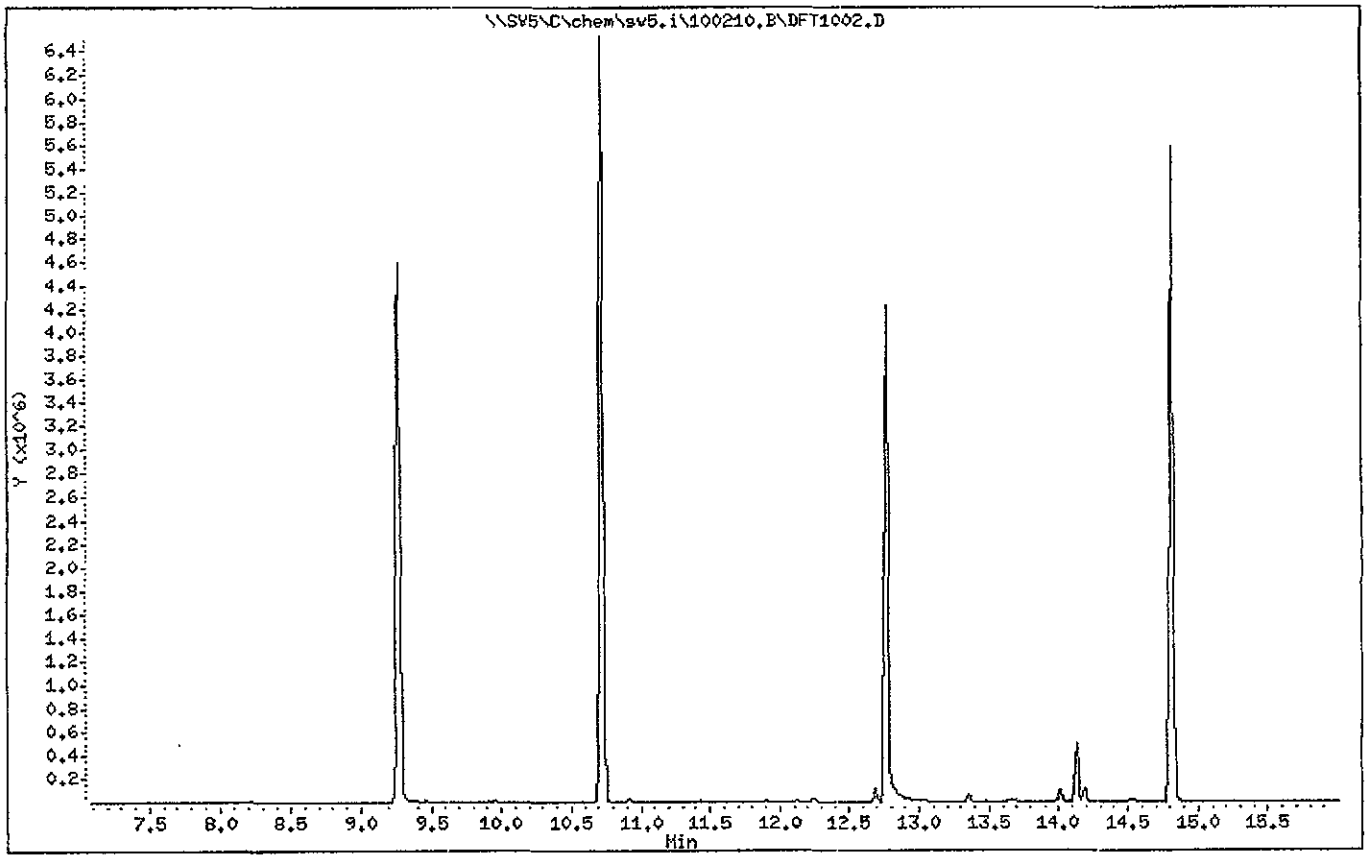
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00



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

Date : 02-OCT-2010 12:06

Client ID:

Instrument: sv5.i

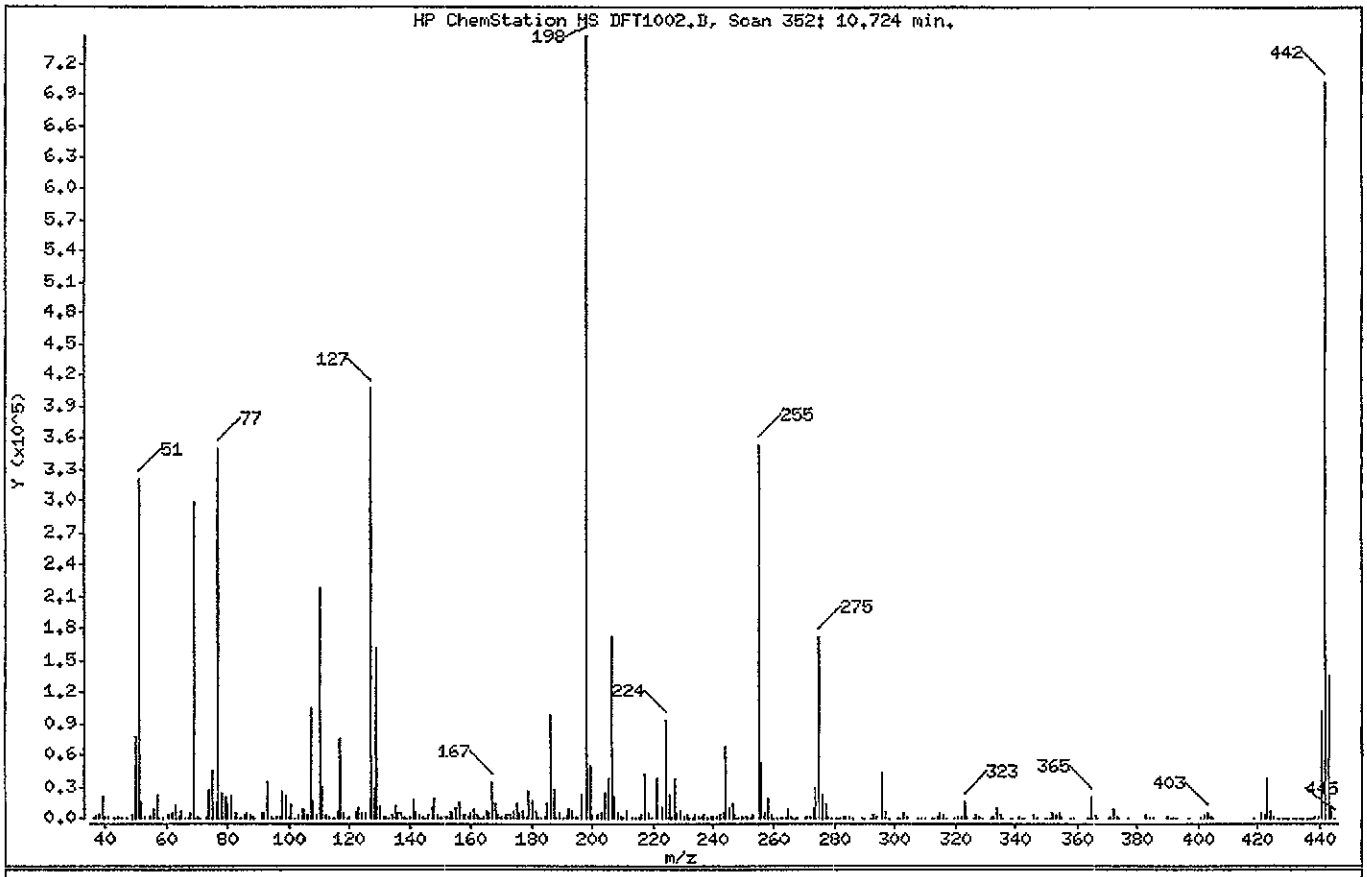
Sample Info: DFTPP 50ug/ml;

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 - 80.00% of mass 198	42.94
68	Less than 2.00% of mass 69	0.65 (1.62)
69	Mass 69 relative abundance	39.92
70	Less than 2.00% of mass 69	0.26 (0.64)
127	25.00 - 75.00% of mass 198	54.44
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.58
275	10.00 - 30.00% of mass 198	22.88
365	Greater than 0.75% of mass 198	2.74
441	Present, but less than mass 443	13.52
442	40.00 - 110.00% of mass 198	94.09
443	15.00 - 24.00% of mass 442	18.22 (19.37)

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

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	259
96.00	1660	183.00	559	276.10	22944	421.00	5400
97.10	1007	184.10	2227	277.00	13493	422.00	4183
98.00	25944	185.10	13301	278.10	2251	423.00	37592
99.00	21688	186.00	97684	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

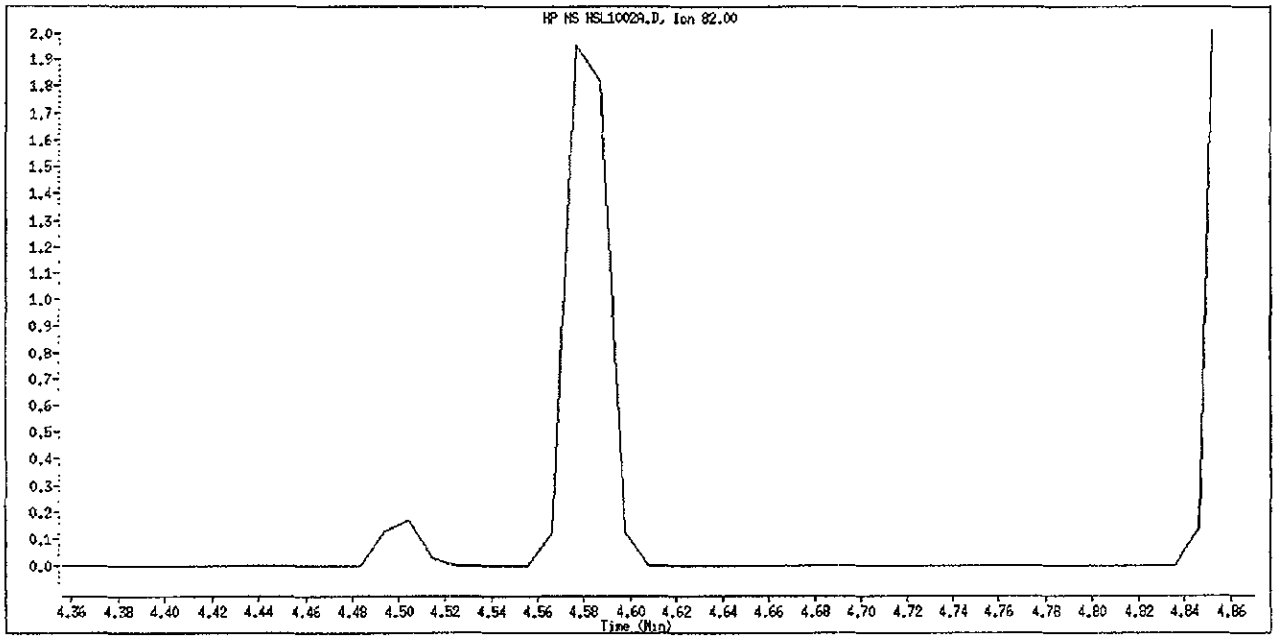
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.126	5.126	(0.954)	31152	5.00000	5.288
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	19256	5.00000	4.708
50 Benzoic Acid	122	5.084	5.115	(0.946)	12679	5.00000	4.333
51 1,2,4-Trichlorobenzene	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)	54594	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)

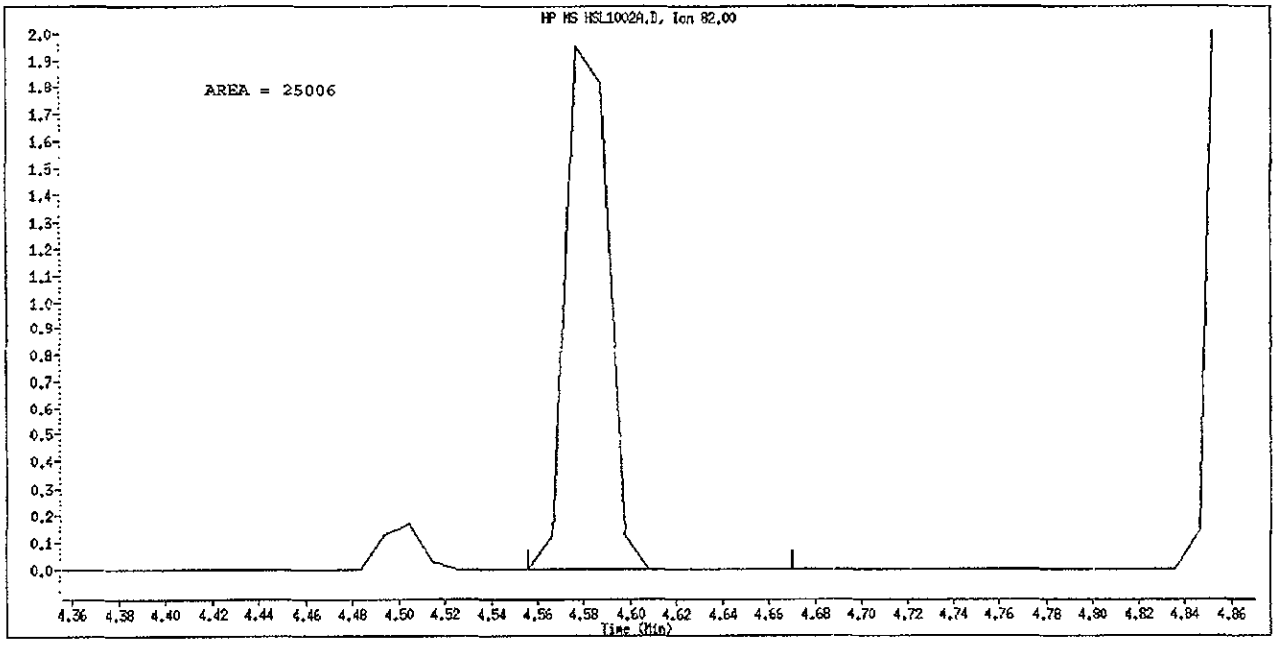
QC Flag Legend

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



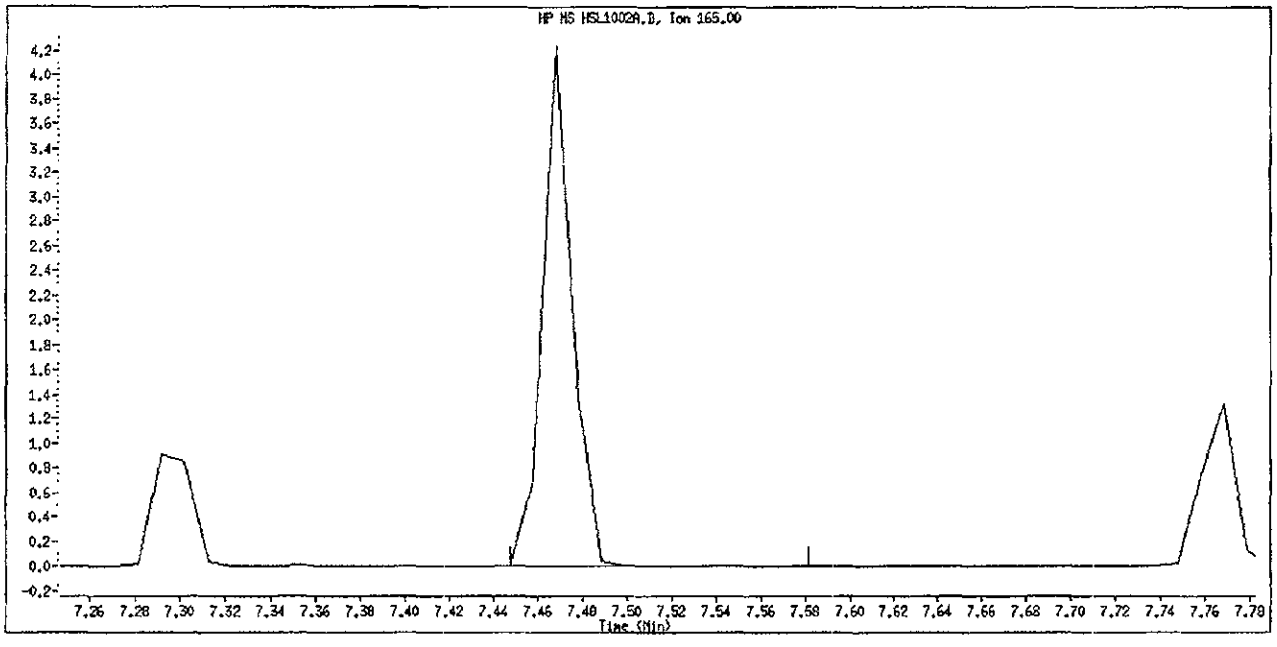
Original Integration



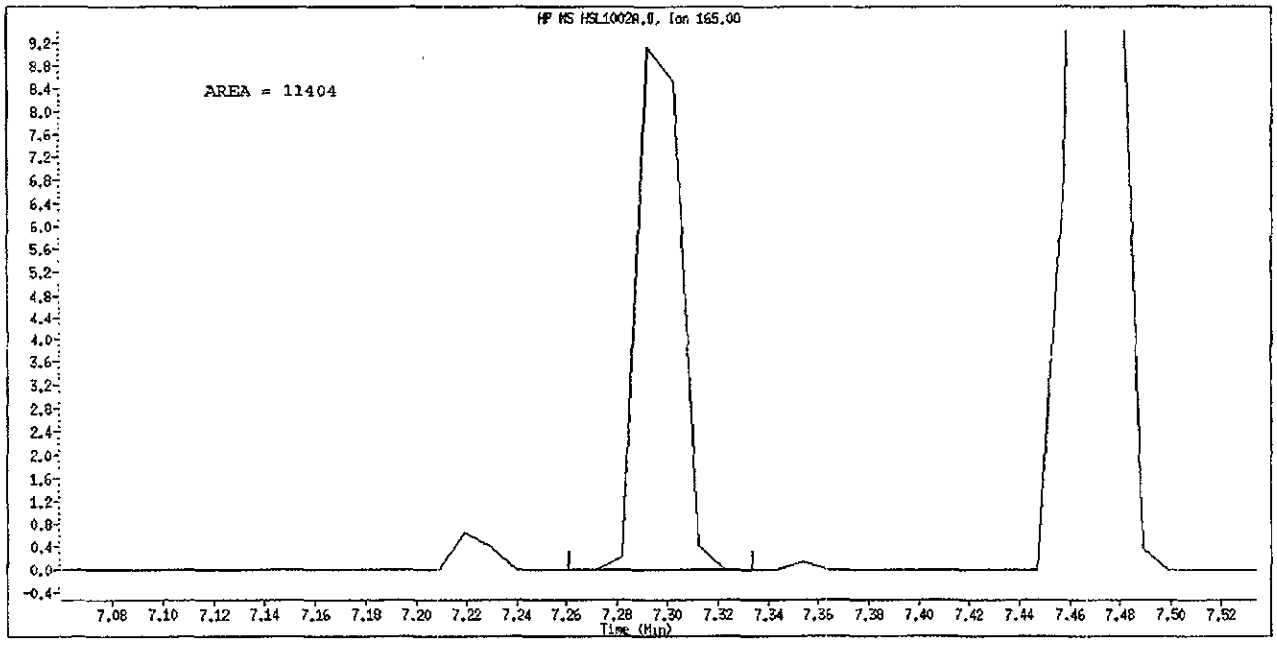
Manual Integration

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)	605667	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

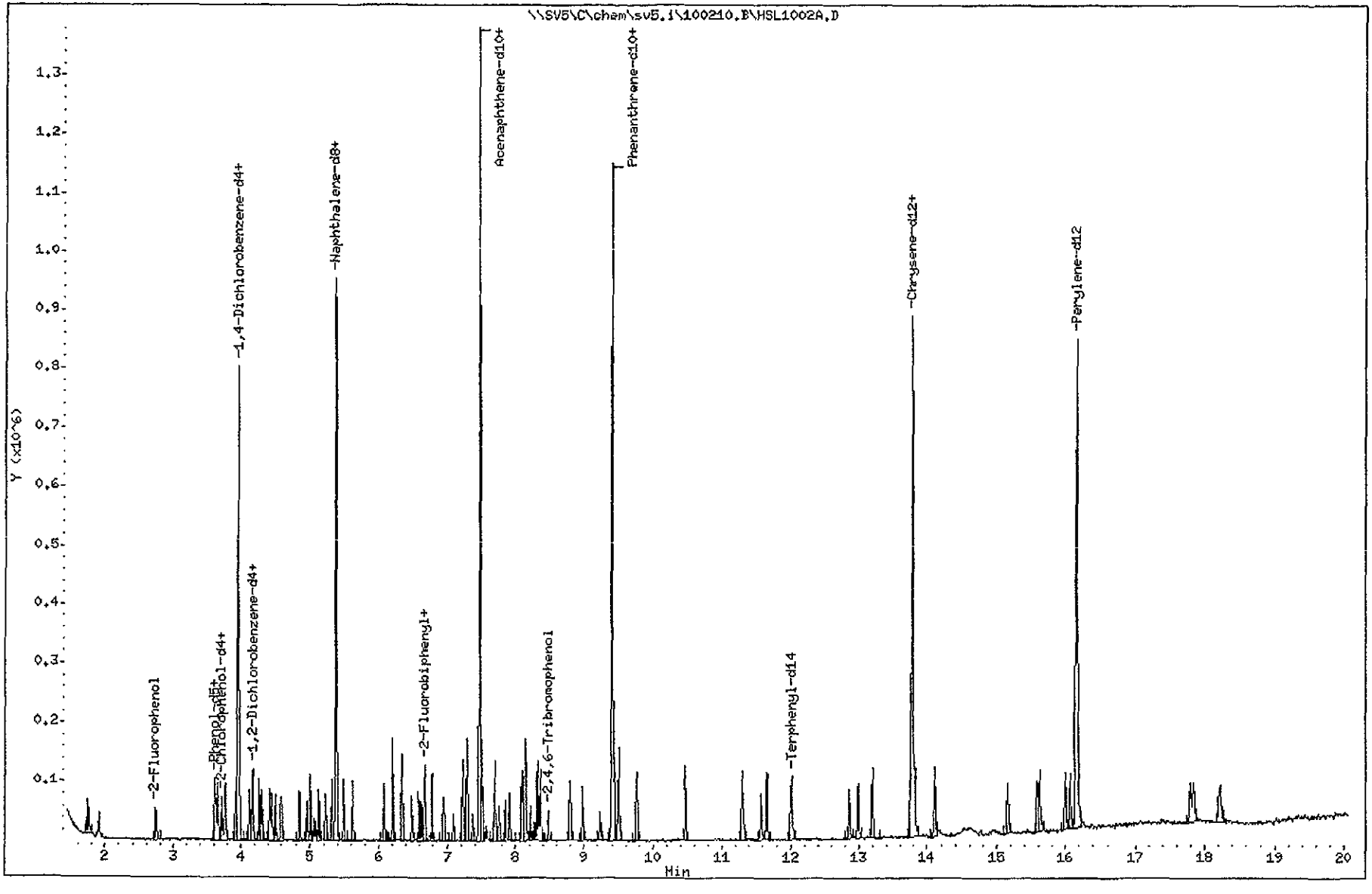
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002A.D
Date : 02-OCT-2010 12:27
Client ID: 8270F.M
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

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	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)	64859	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

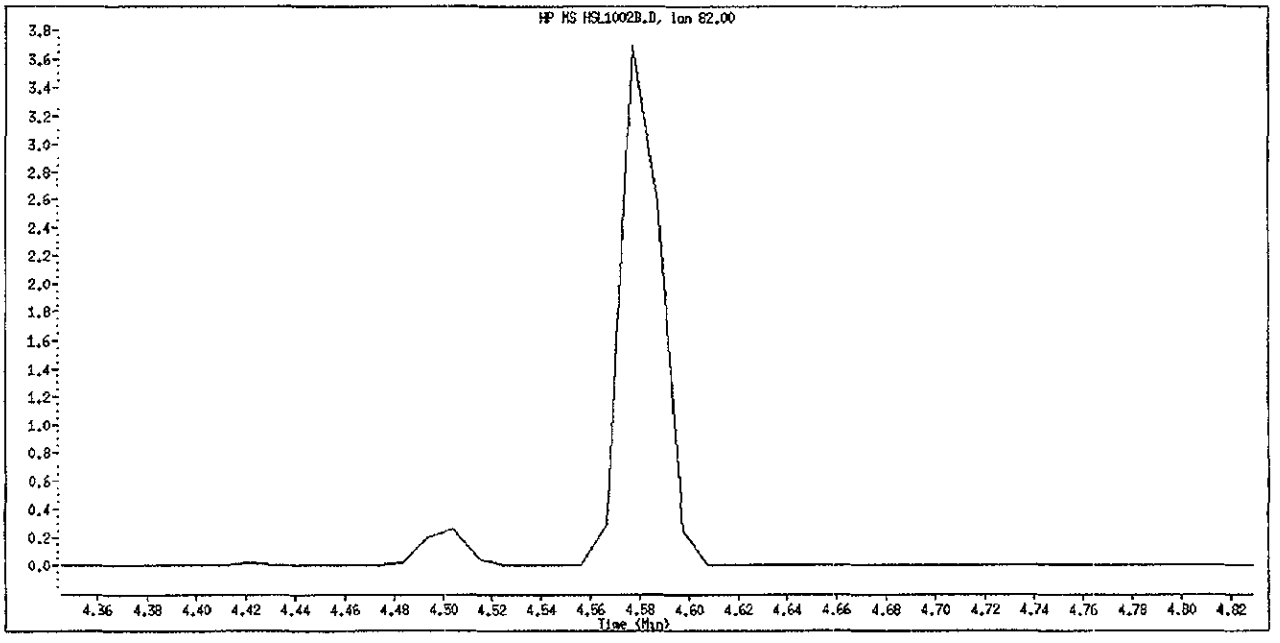
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.126	5.126	(0.956)	46230	10.0000	9.636
49 2,4-Dichlorophenol	162	5.229	5.229	(0.975)	32450	10.0000	9.744
50 Benzoic Acid	122	5.084	5.115	(0.948)	20056	10.0000	8.418
51 1,2,4-Trichlorobenzene	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)	AMOUNTS ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				206994	10.0000	9.556(A)

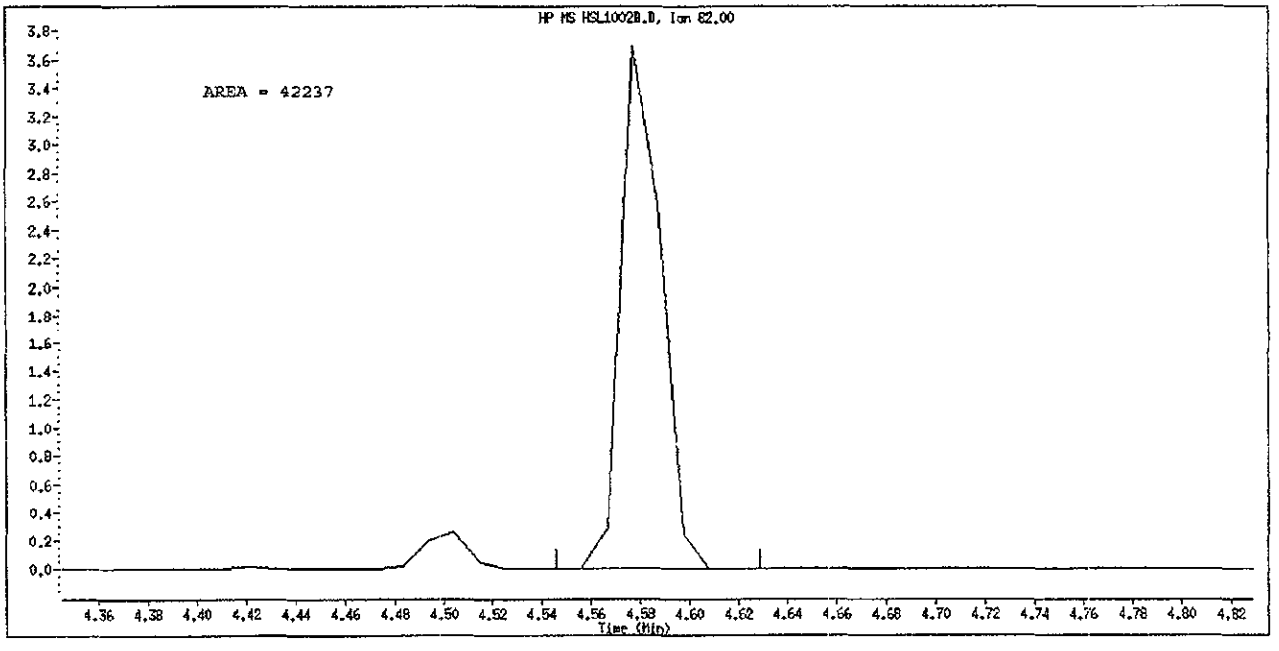
QC Flag Legend

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



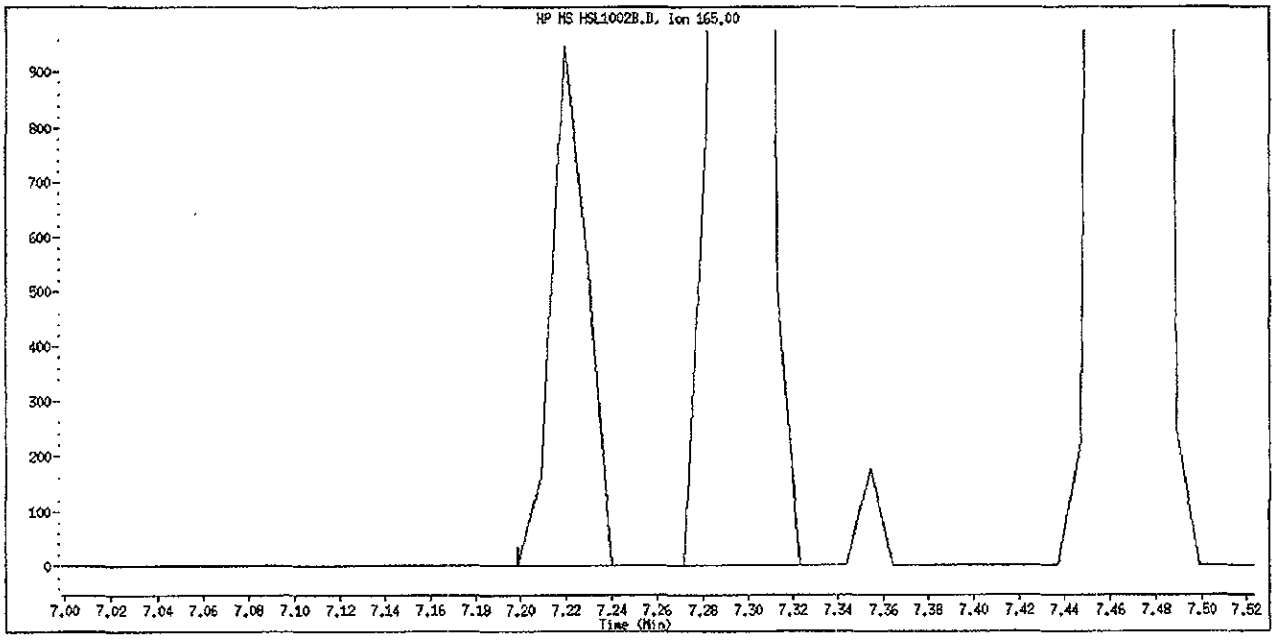
Original Integration



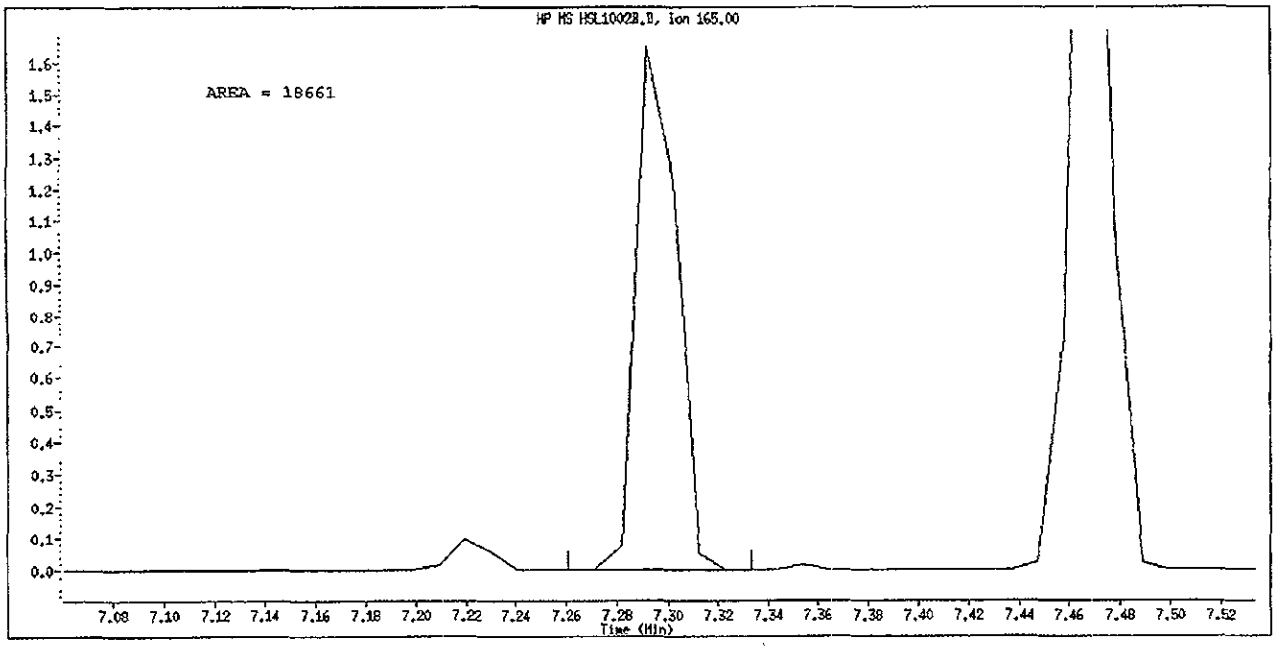
Manual Integration

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)Phtbalate	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

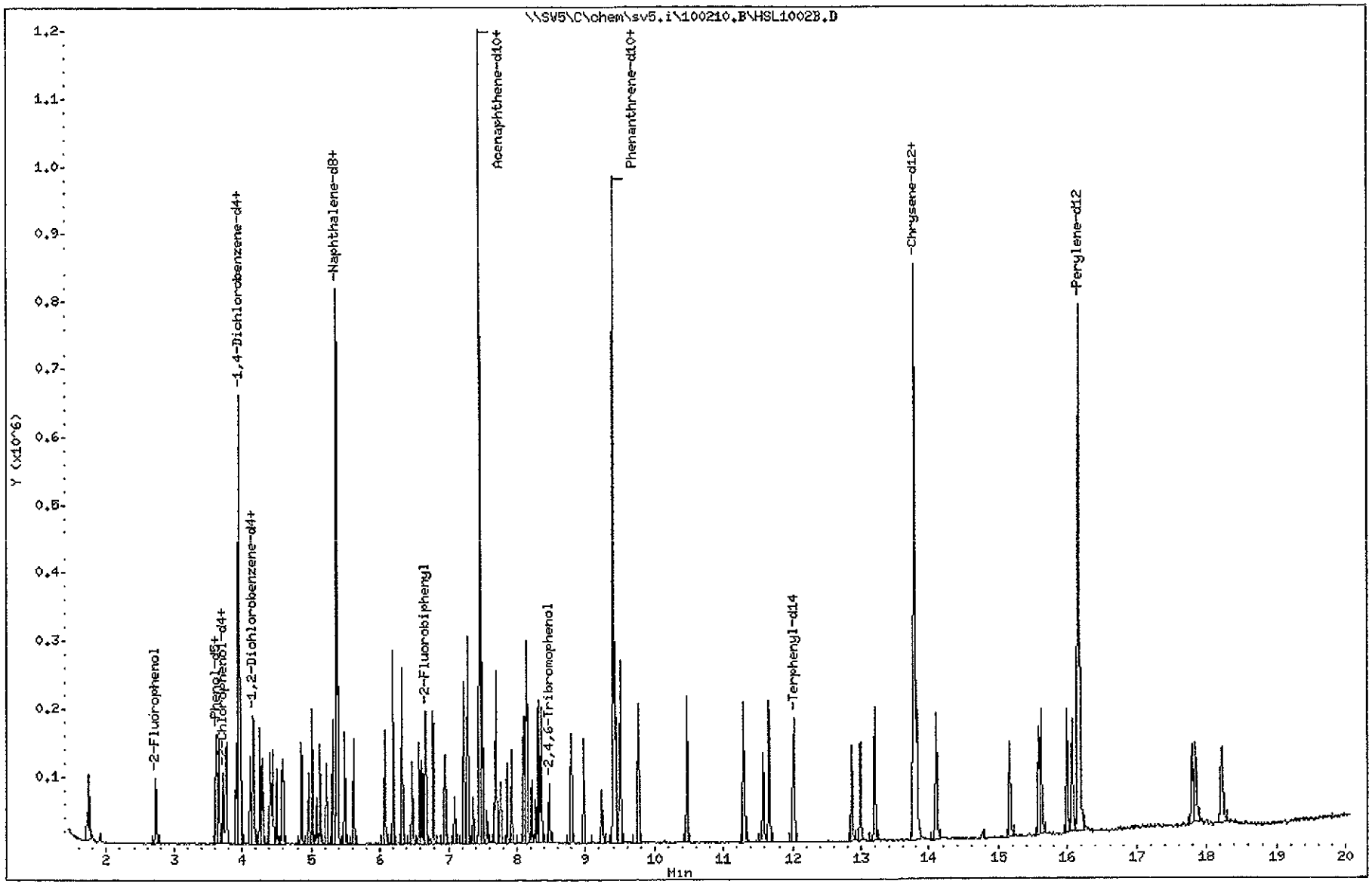
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

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

LT 10-3-10

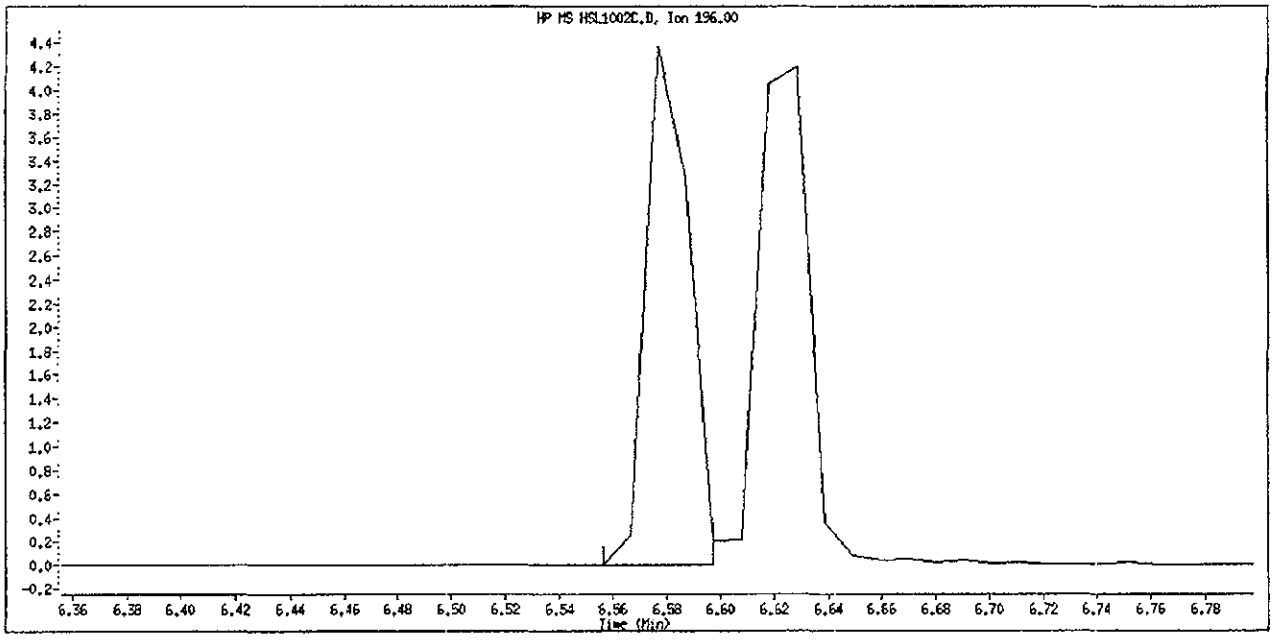
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
47	Bis(2-chloroethoxy)methane	93	5.125	5.126	(0.956)	120646	20.0000	19.82
49	2,4-Dichlorophenol	162	5.229	5.229	(0.975)	84525	20.0000	20.01
50	Benzoic Acid	122	5.094	5.115	(0.950)	54506	20.0000	18.03
51	1,2,4-Trichlorobenzene	180	5.322	5.322	(0.992)	89082	20.0000	19.47
52	Naphthalene	128	5.395	5.395	(1.006)	336100	20.0000	19.46
54	4-Chloroaniline	127	5.488	5.488	(1.023)	135348	20.0000	19.99
57	Hexachlorobutadiene	225	5.613	5.613	(1.046)	45138	20.0000	20.16
60	4-Chloro-3-Methylphenol	107	6.068	6.069	(1.131)	90970	20.0000	19.28
63	2-Methylnaphthalene	142	6.203	6.203	(1.156)	212981	20.0000	19.62
66	Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	47478	20.0000	19.36
69	2,4,6-Trichlorophenol	196	6.576	6.576	(0.881)	49658	20.0000	18.94(Q)
70	2,4,5-Trichlorphenol	196	6.628	6.628	(0.888)	55529	20.0000	19.66(QM)
71	2-Chloronaphthalene	162	6.784	6.784	(0.908)	180754	20.0000	19.54
73	2-Nitroaniline	65	6.949	6.949	(0.931)	54872	20.0000	19.58
76	Dimethylphthalate	163	7.219	7.229	(0.967)	213272	20.0000	20.03
77	Acenaphthylene	152	7.281	7.281	(0.975)	315165	20.0000	19.57
79	2,6-Dinitrotoluene	165	7.291	7.302	(0.976)	49111	20.0000	19.80(QM)
80	3-Nitroaniline	138	7.447	7.447	(0.997)	59114	20.0000	19.09
81	Acenaphthene	153	7.509	7.509	(1.006)	208228	20.0000	20.31
82	2,4-Dinitrophenol	184	7.571	7.572	(1.014)	23799	20.0000	19.52
83	Dibenzofuran	168	7.695	7.706	(1.031)	271431	20.0000	19.95
84	4-Nitrophenol	109	7.675	7.675	(1.028)	25164	20.0000	19.59(Q)
86	2,4-Dinitrotoluene	165	7.768	7.768	(1.040)	63223	20.0000	19.42
91	Fluorene	166	8.131	8.131	(1.089)	220647	20.0000	19.58
92	Diethylphthalate	149	8.100	8.100	(1.085)	216140	20.0000	19.83
93	4-Chlorophenyl-phenylether	204	8.151	8.152	(1.092)	93468	20.0000	19.95
94	4-Nitroaniline	138	8.214	8.214	(1.100)	61333	20.0000	19.98
97	4,6-Dinitro-2-methylphenol	198	8.276	8.276	(0.880)	32982	20.0000	20.44
98	N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	186206	23.4000	23.36
100	Azobenzene	77	8.348	8.348	(0.888)	203290	20.0000	19.66
101	4-Bromophenyl-phenylether	248	8.794	8.794	(0 935)	50693	20.0000	19.75
108	Hexachlorobenzene	284	8.980	8.981	(0.955)	54528	20.0000	19.02
110	Pentachlorophenol	266	9.240	9.240	(0.982)	30451	20.0000	20.33
114	Phenanthrene	178	9.436	9.437	(1.003)	329718	20.0000	19.89
115	Anthracene	178	9.499	9.499	(1.010)	326558	20.0000	19.72
118	Carbazole	167	9.768	9.768	(1.039)	298921	20.0000	19.76
120	Di-n-Butylphthalate	149	10.462	10.463	(1.112)	358075	20.0000	19.68
126	Fluoranthene	202	11.302	11.302	(1.202)	308182	20.0000	20.75
127	Benzidine	184	11.571	11.571	(0.840)	222260	20.0000	18.56
128	Pyrene	202	11.665	11.665	(0.847)	345805	20.0000	18.73
134	3,3'-dimethylbenzidine	212	12.867	12.867	(0.934)	198960	20.0000	18.82
136	Butylbenzylphthalate	149	12.991	12.991	(0.943)	174685	20.0000	18.88
138	Benzo(a)Anthracene	228	13.758	13.758	(0.998)	304948	20.0000	19.38
139	Chrysene	228	13.820	13.831	(1.003)	314030	20.0000	19.51
140	3,3'-Dichlorobenzidine	252	13.799	13.799	(1.002)	115458	20.0000	19.45
141	bis(2-ethylhexyl)Phthalate	149	14.110	14.110	(1.024)	248201	20.0000	19.47
142	Di-n-octylphthalate	149	15.157	15.167	(1.100)	400592	20.0000	19.66
144	Benzo(b)fluoranthene	252	15.582	15.582	(0.964)	256213	20.0000	18.28(Q)
145	Benzo(k)fluoranthene	252	15.613	15.623	(0.966)	371629	20.0000	20.65(q)
147	Benzo(e)pyrene	252	15.996	16.007	(0.990)	281015	20.0000	19.22
148	Benzo(a)pyrene	252	16.069	16.079	(0.994)	307781	20.0000	19.37
151	Indeno(1,2,3-cd)pyrene	276	17.789	17.800	(1.101)	228110	20.0000	17.74
152	Dibenzo(a,h)anthracene	278	17.841	17.841	(1.104)	270172	20.0000	18.81
153	Benzo(g,h,i)perylene	276	18.224	18.235	(1.128)	301520	20.0000	19.39

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				627842	20.0000	19.61(A)

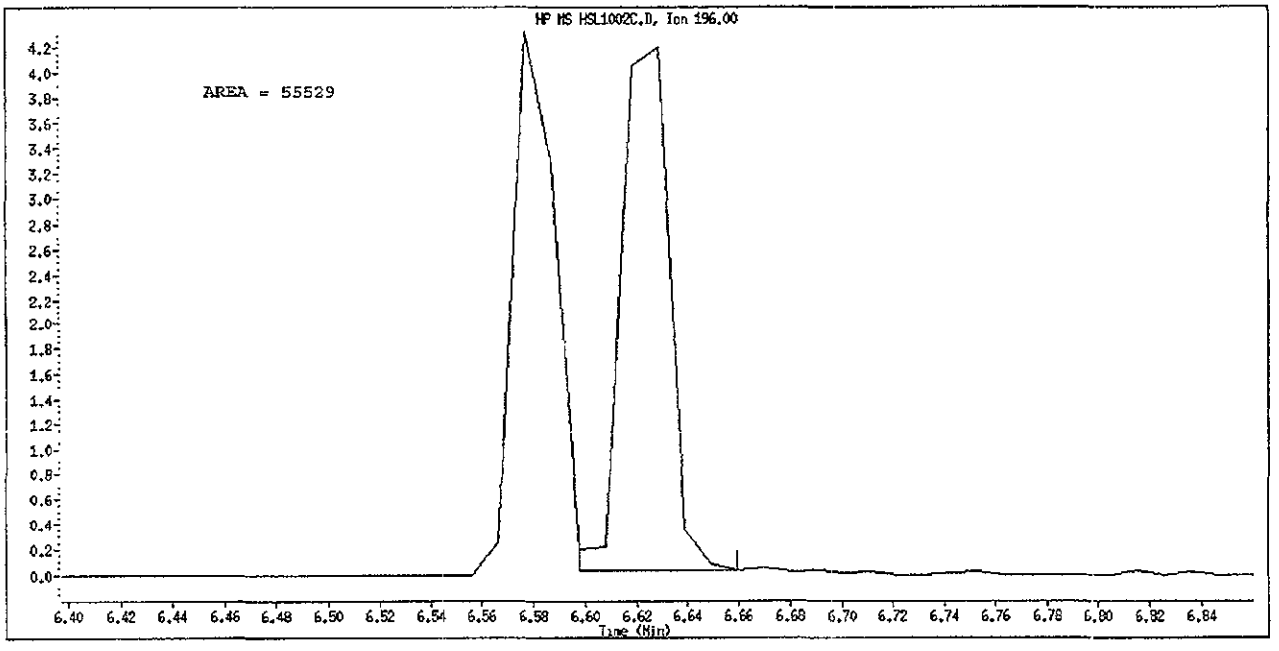
QC Flag Legend

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



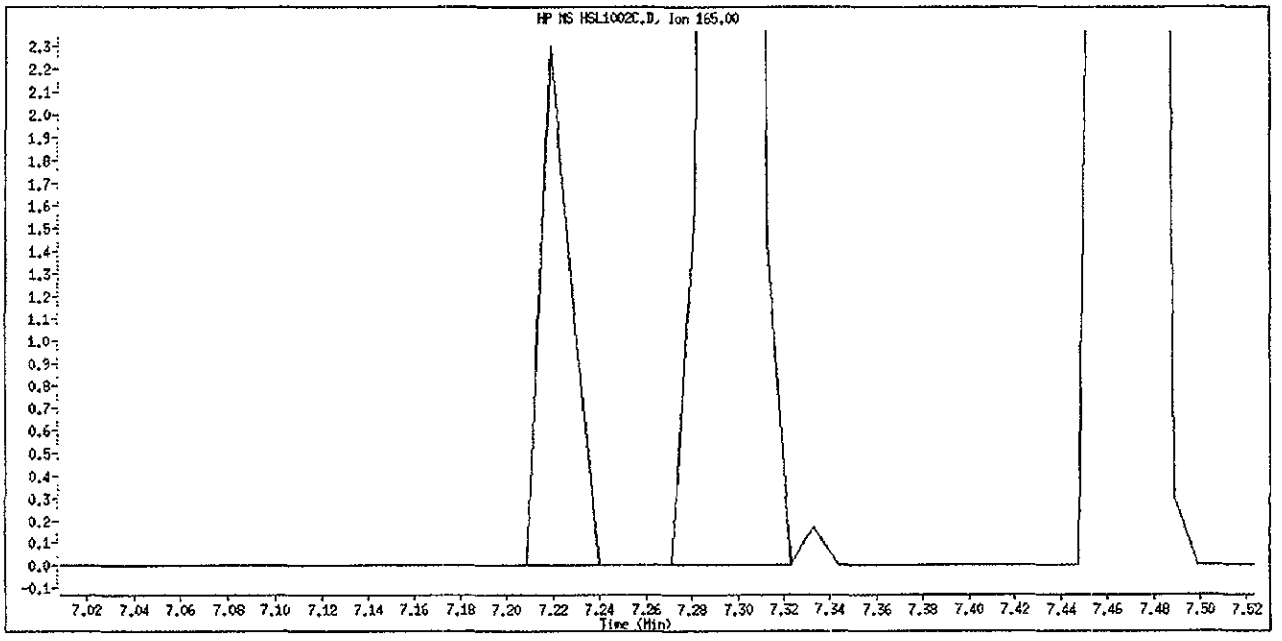
Original Integration



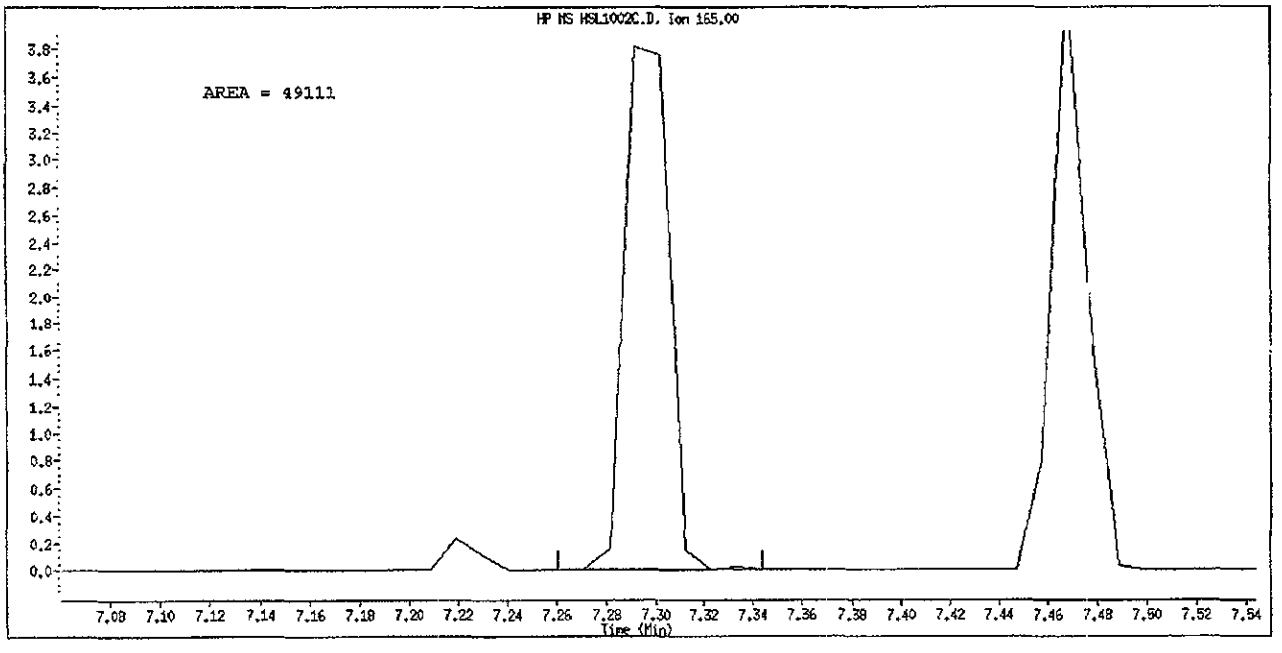
Manual Integration

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)	AMOUNTS 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-Dichlorobenzene	146	4.172	4.172	(1.055)	117073	20.0000	19.18	
	32 2-Methylphenol	108	4.255	4.255	(1.076)	101499	20.0000	18.85	
	33 2,2'-oxybis(1-Chloropropane)	45	4.296	4.297	(1.086)	166596	20.0000	16.22	
	34 4-Methylphenol	108	4.421	4.421	(1.118)	106723	20.0000	18.60	
	36 Hexachloroethane	117	4.504	4.504	(1.139)	44196	20.0000	19.45	
	37 N-Nitrosodinpropylamine	70	4.441	4.442	(1.123)	73913	20.0000	18.40	
	42 Nitrobenzene	77	4.597	4.597	(0.857)	101809	20.0000	18.46	
	44 Isophorone	82	4.856	4.856	(0.905)	191333	20.0000	18.30	
	45 2-Nitrophenol	139	4.960	4.960	(0.925)	58938	20.0000	19.57	
	46 2,4-Dimethyphenol	107	5.011	5.012	(0.934)	107325	20.0000	19.20	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
47	Bis(2-chloroethoxy)methane	93	5.125	5.126	(0.956)	120646	20.0000	19.38
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)	AMOUNTS 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

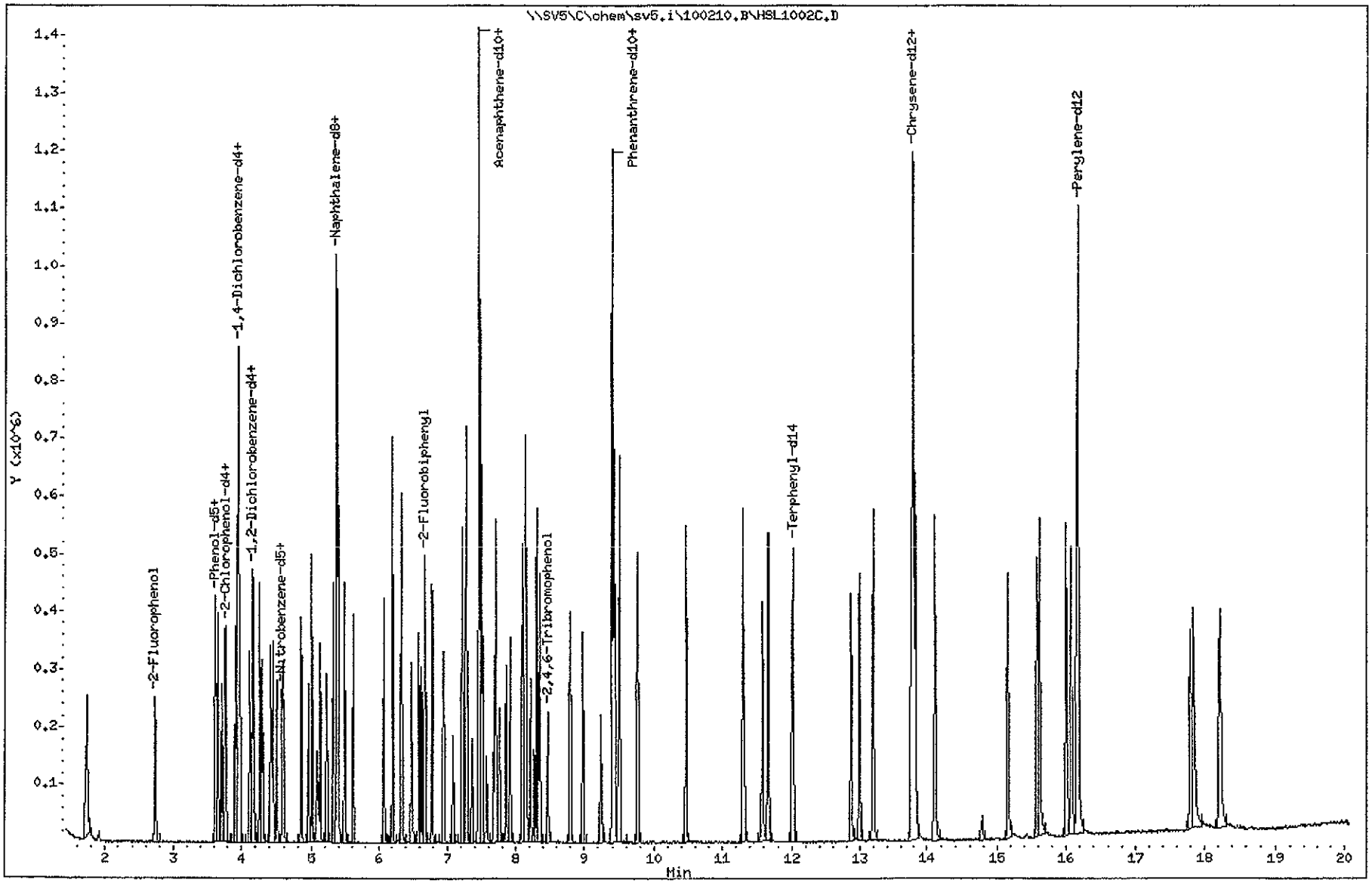
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

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

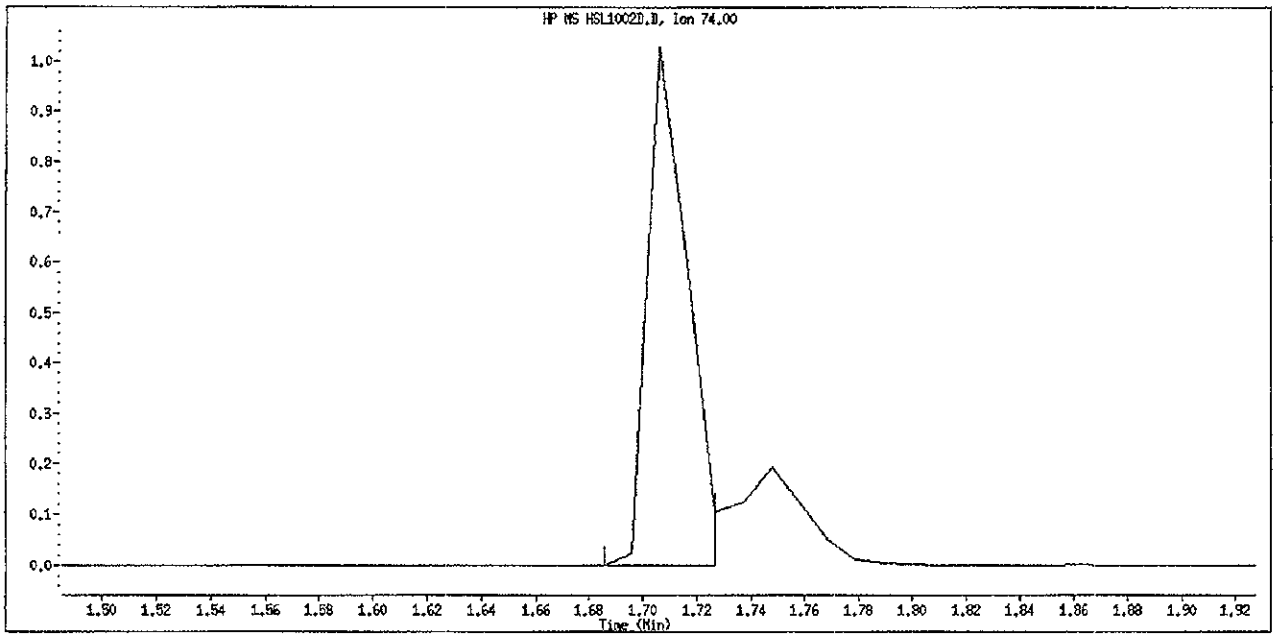
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.126	5.126	(0.954)	253648	50.0000	49.15
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	179296	50.0000	50.05
50 Benzoic Acid	122	5.115	5.115	(0.952)	128366	50.0000	50.08
51 1,2,4-Trichlorobenzene	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)	454646	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)	ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				1107571	50.0000	50.74(A)

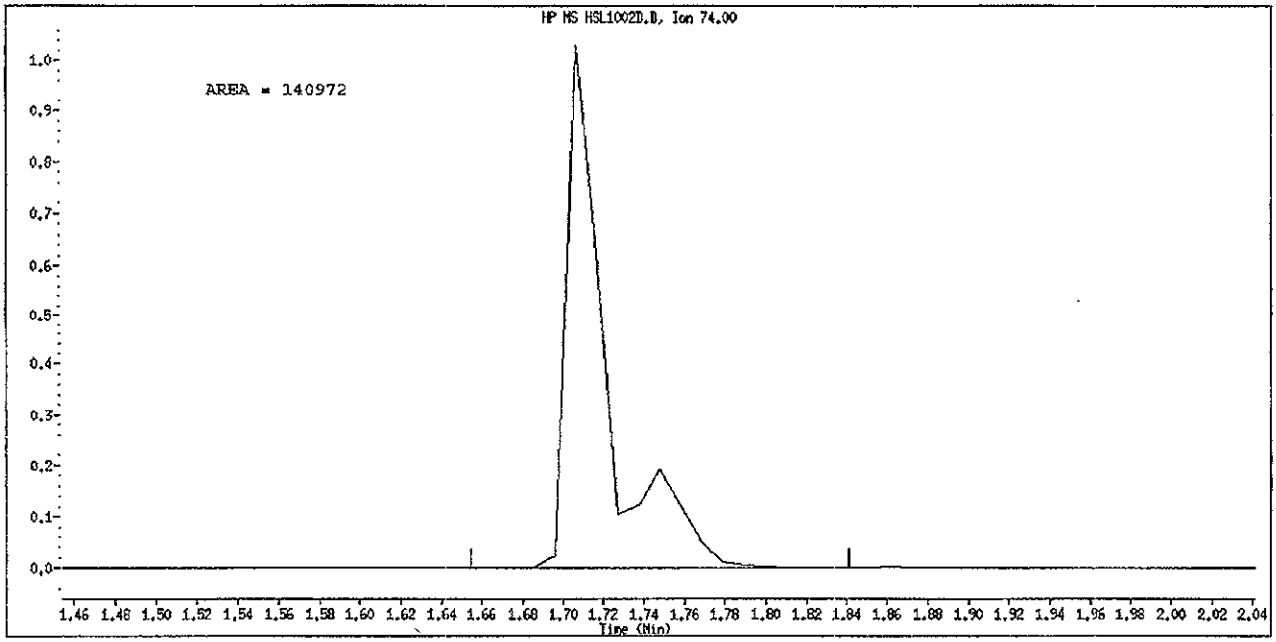
QC Flag Legend

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



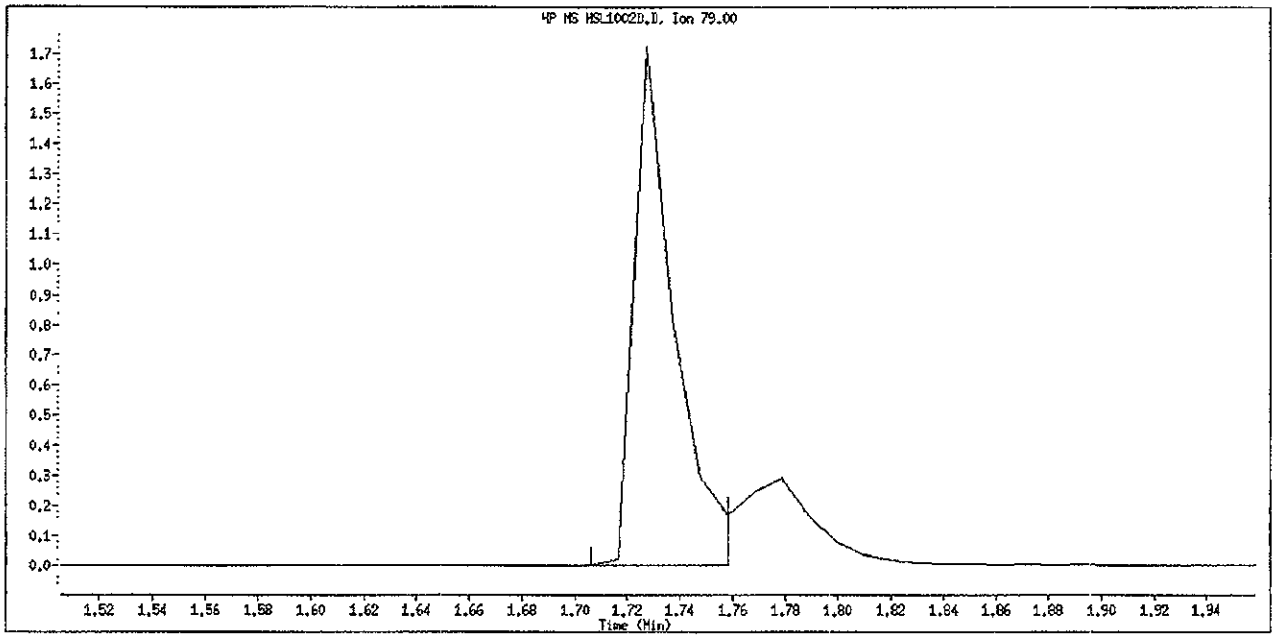
Original Integration



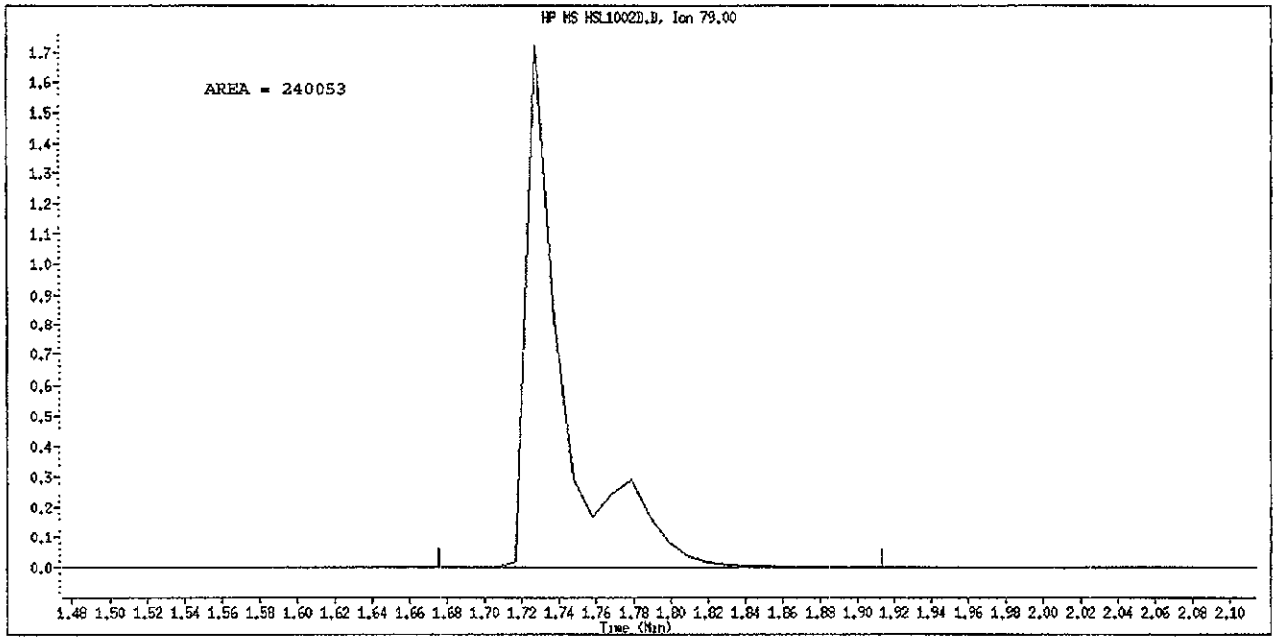
Manual Integration

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



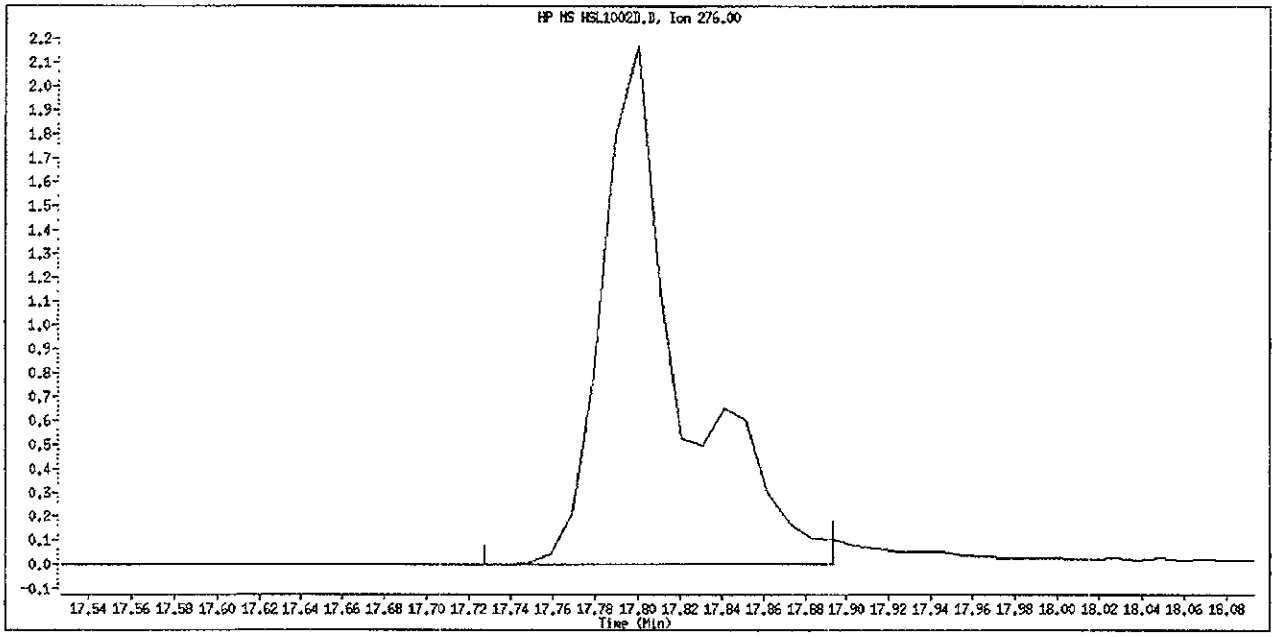
Original Integration



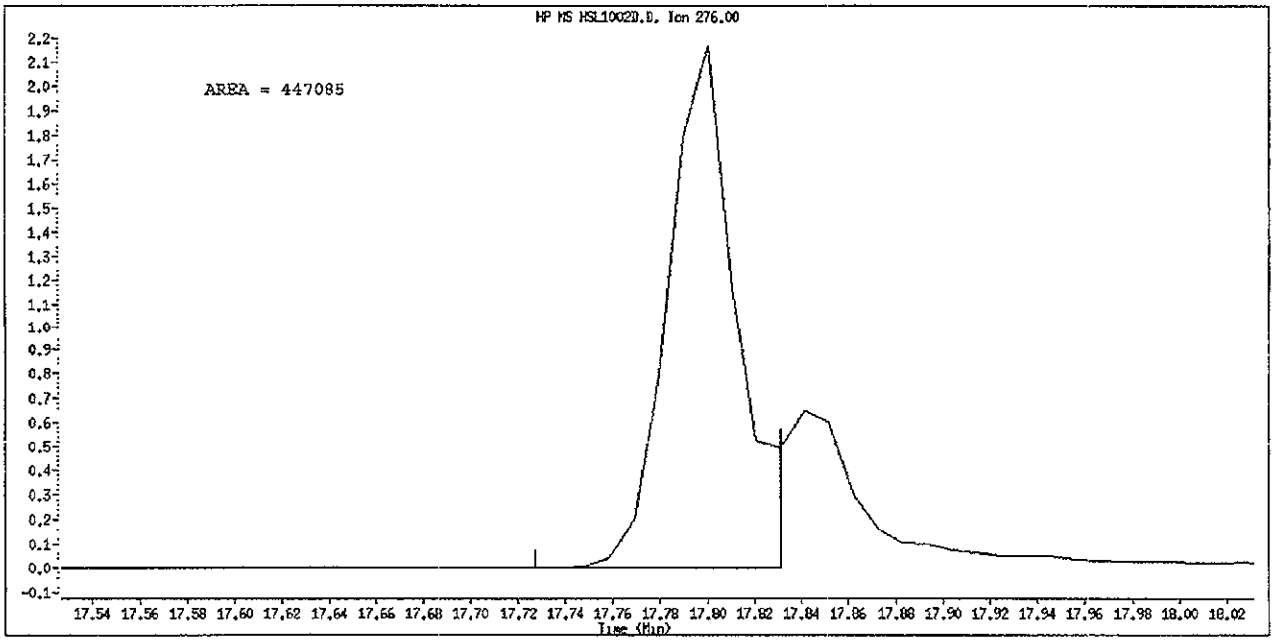
Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

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



Original Integration



Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

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

	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	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	9.758	(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)	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

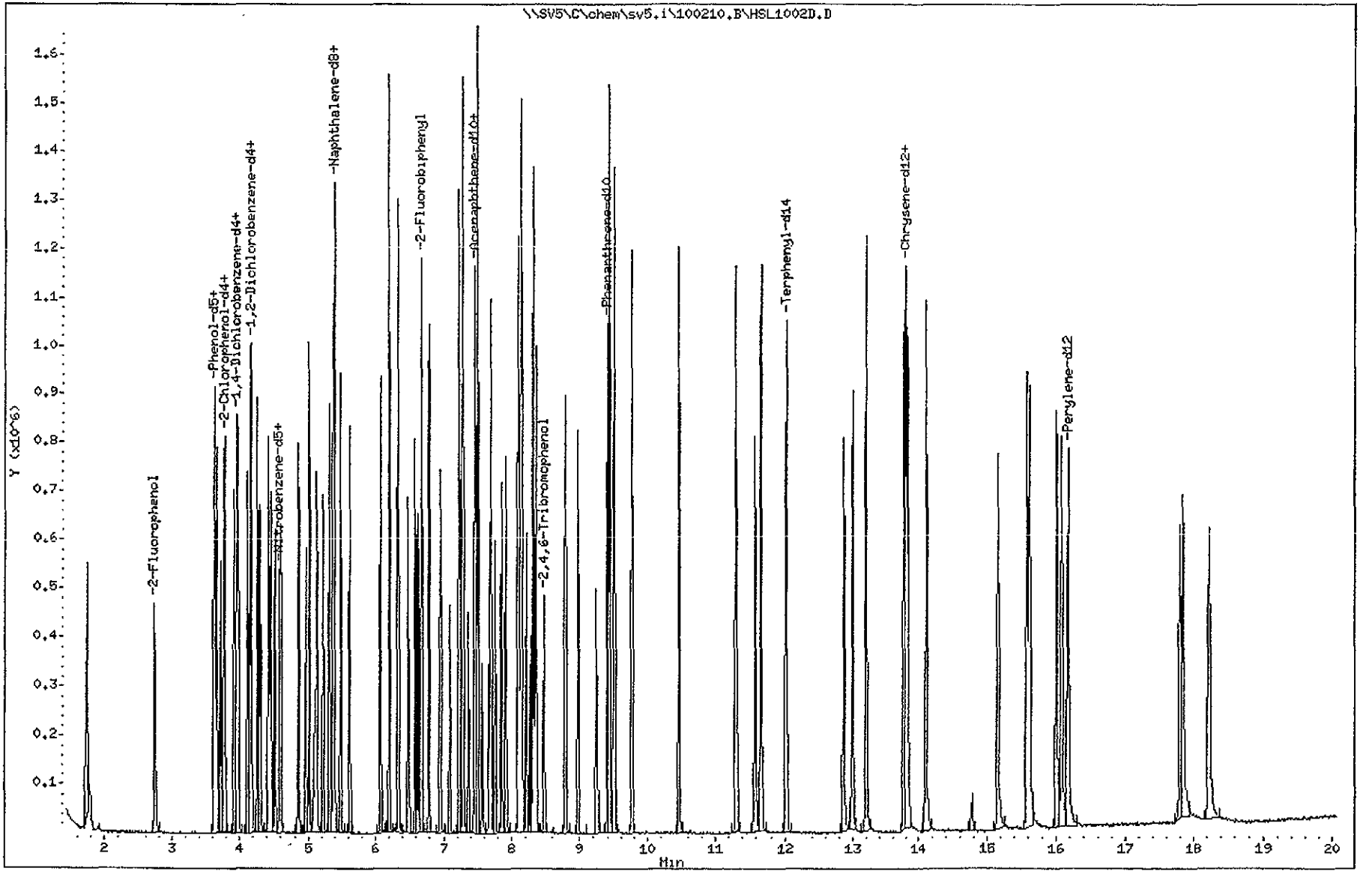
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

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)	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	7.705	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)	AMOUNTS ON-COL (NG)	
*	1 1,4-Dichlorobenzene-d4	152	3.954	3.955	(1.000)	126989	40.0000		(g)
*	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	

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

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				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

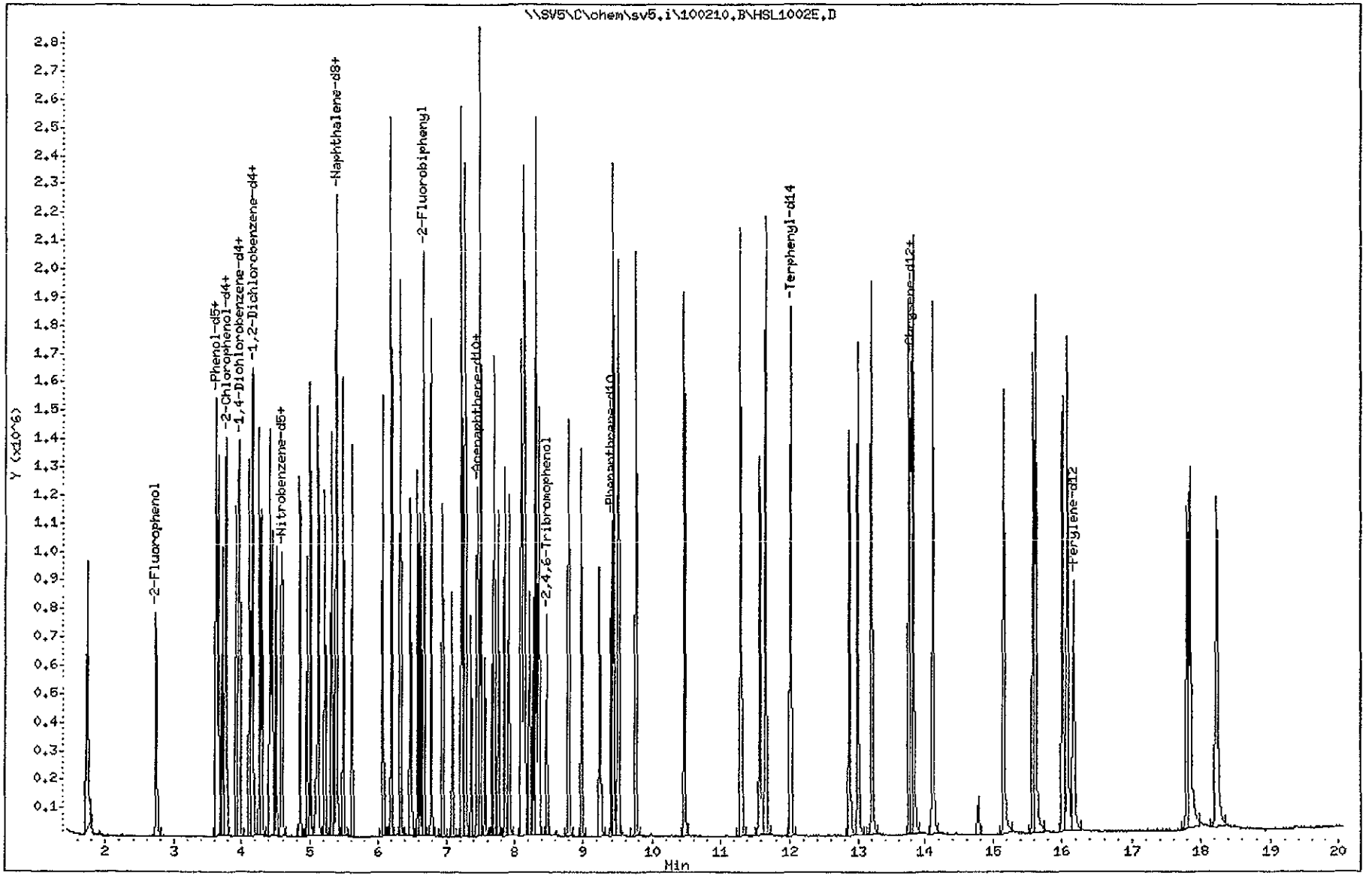
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

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

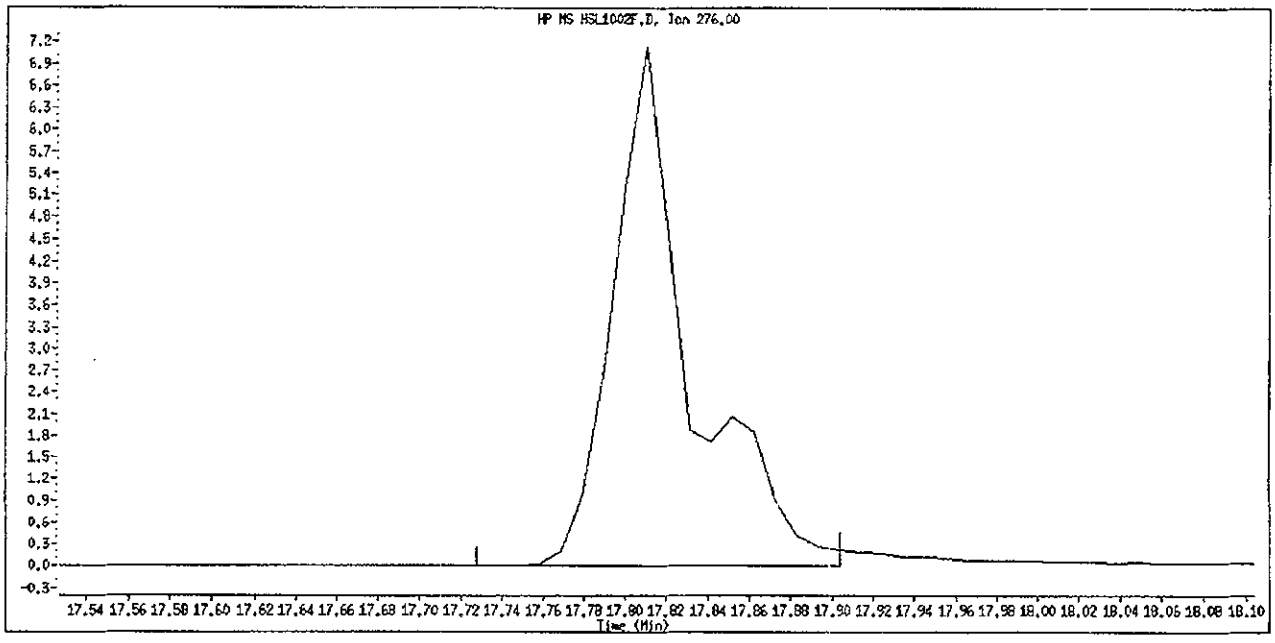
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.126	5.126	(0.954)	707504	120.000	122.9
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	500185	120.000	125.2
50 Benzoic Acid	122	5.146	5.115	(0.958)	395333	120.000	138.3
51 1,2,4-Trichlorobenzene	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)	ON-COL (NG)
M 162 benzo b,k Fluoranthene Totals	252				3411204	120.000	122.3(A)

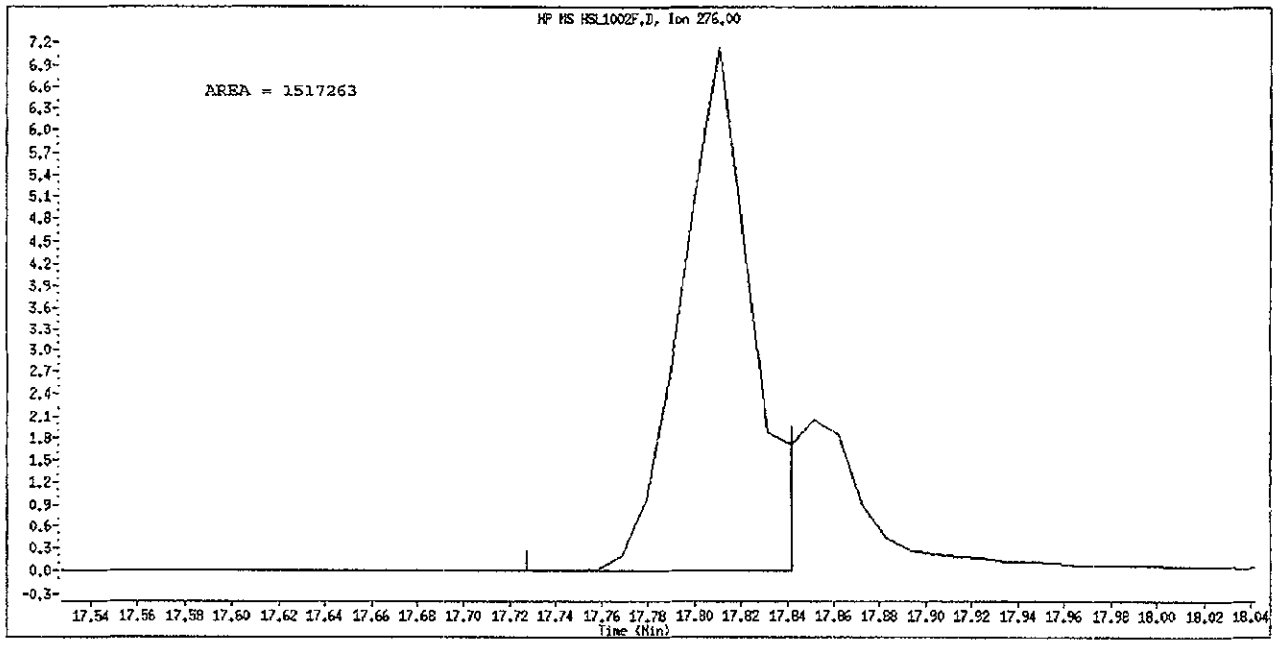
QC Flag Legend

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)	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)	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

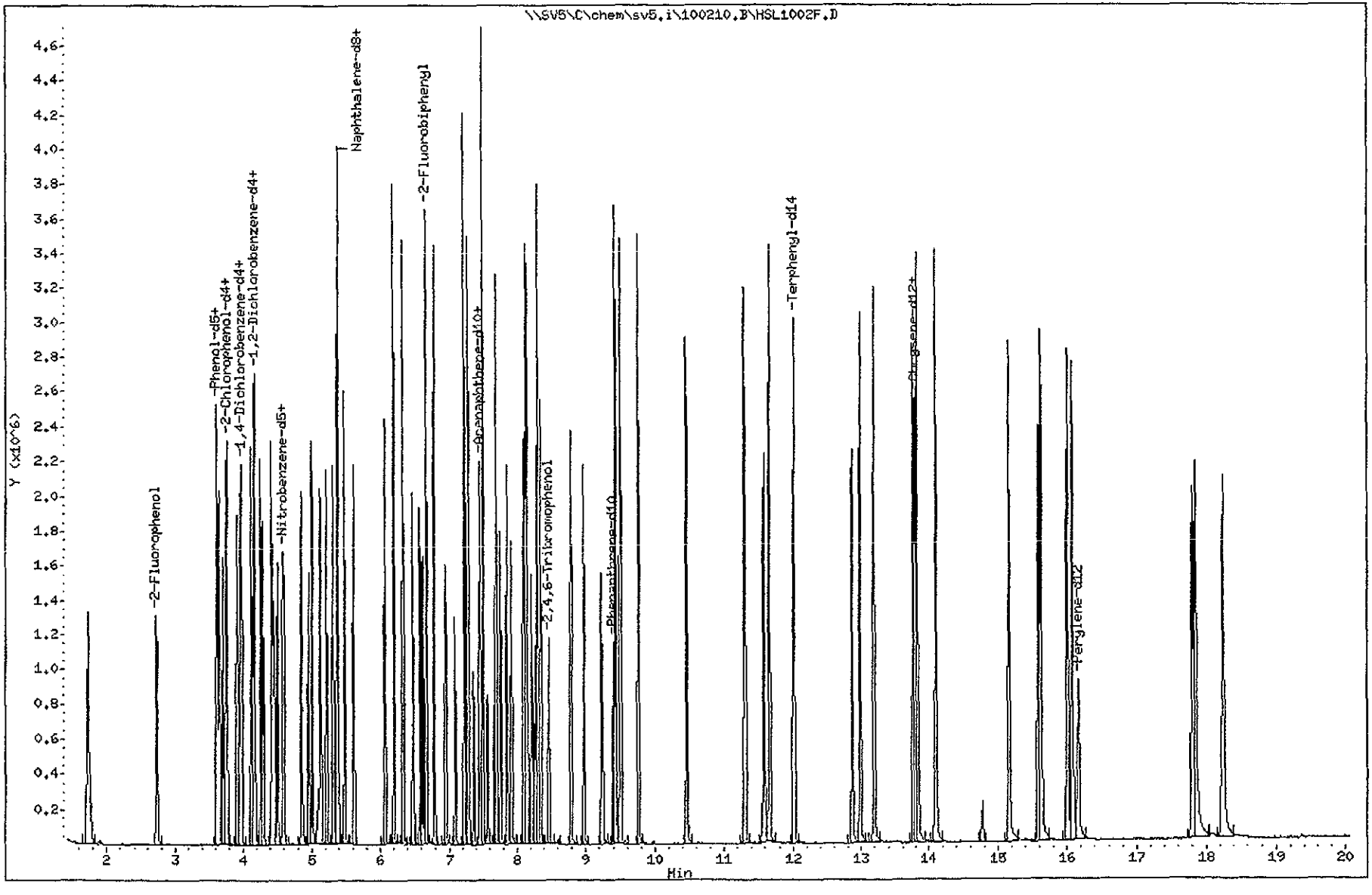
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

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

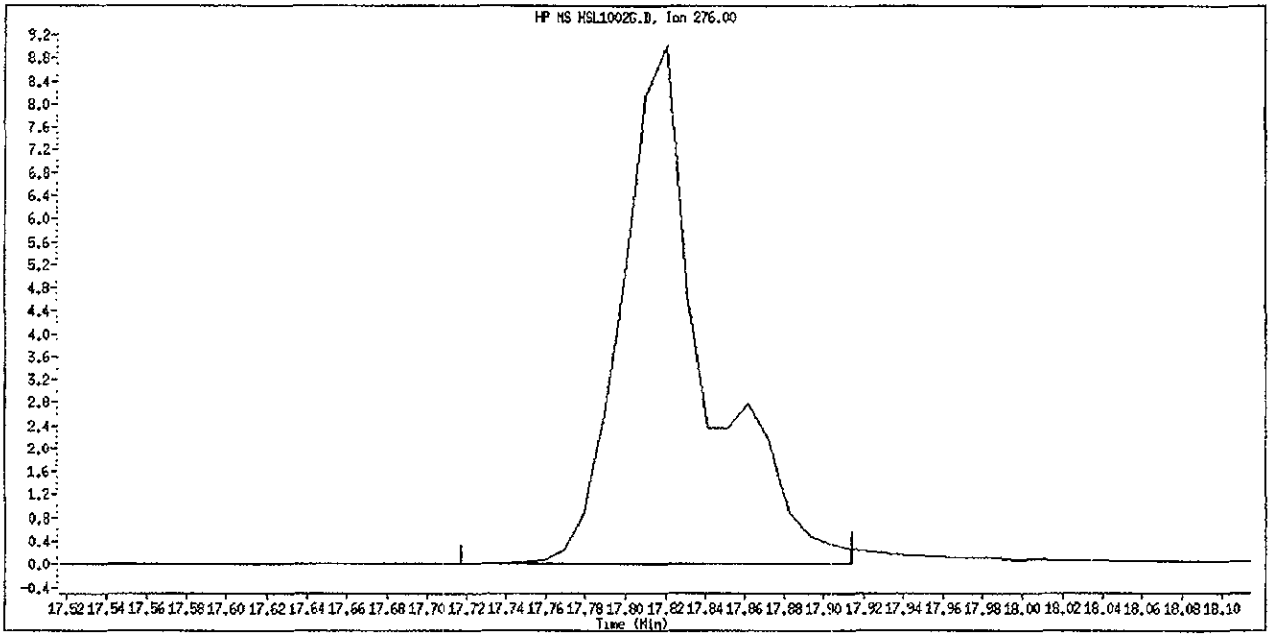
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.136	5.126	(0.956)	959710	160.000	158.5
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	692405	160.000	164.7(A)
50 Benzoic Acid	122	5.167	5.115	(0.961)	552251	160.000	183.6(A)
51 1,2,4-Trichlorobenzene	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	166.5(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)

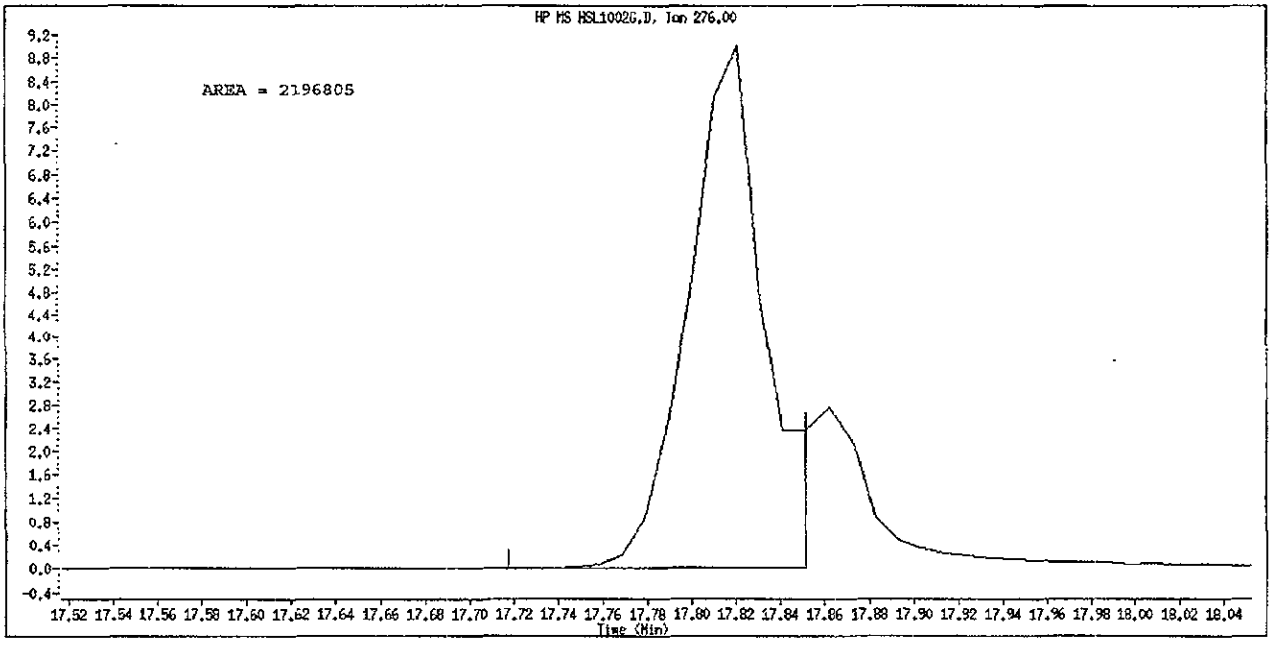
QC Flag Legend

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)	AMOUNTS 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)	1318520	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)	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	9.758	(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)	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

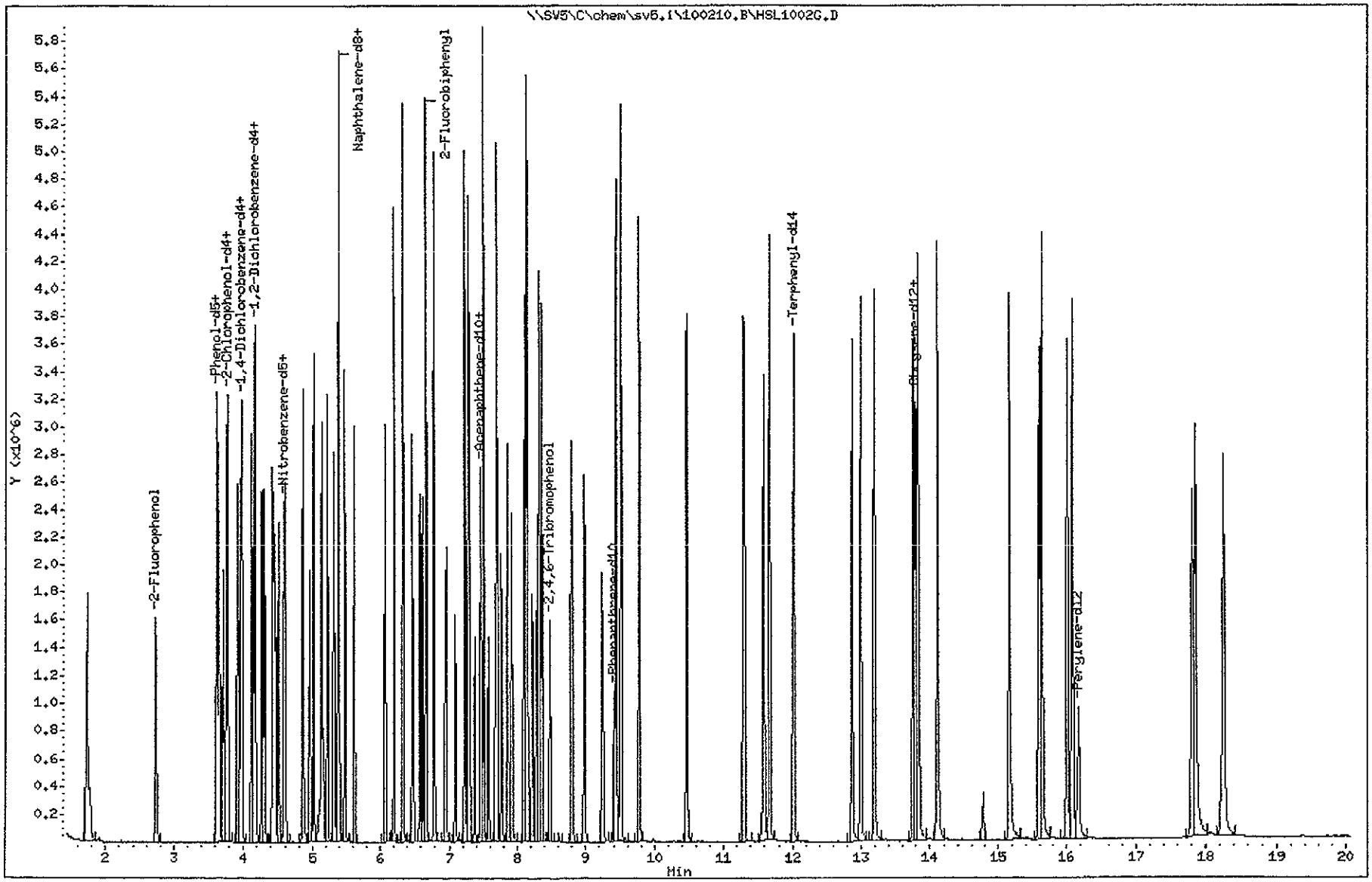
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002G.D
Date : 02-OCT-2010 15:00
Client ID: 8270F.M
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

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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 RT
See RD
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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)	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)	593801	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

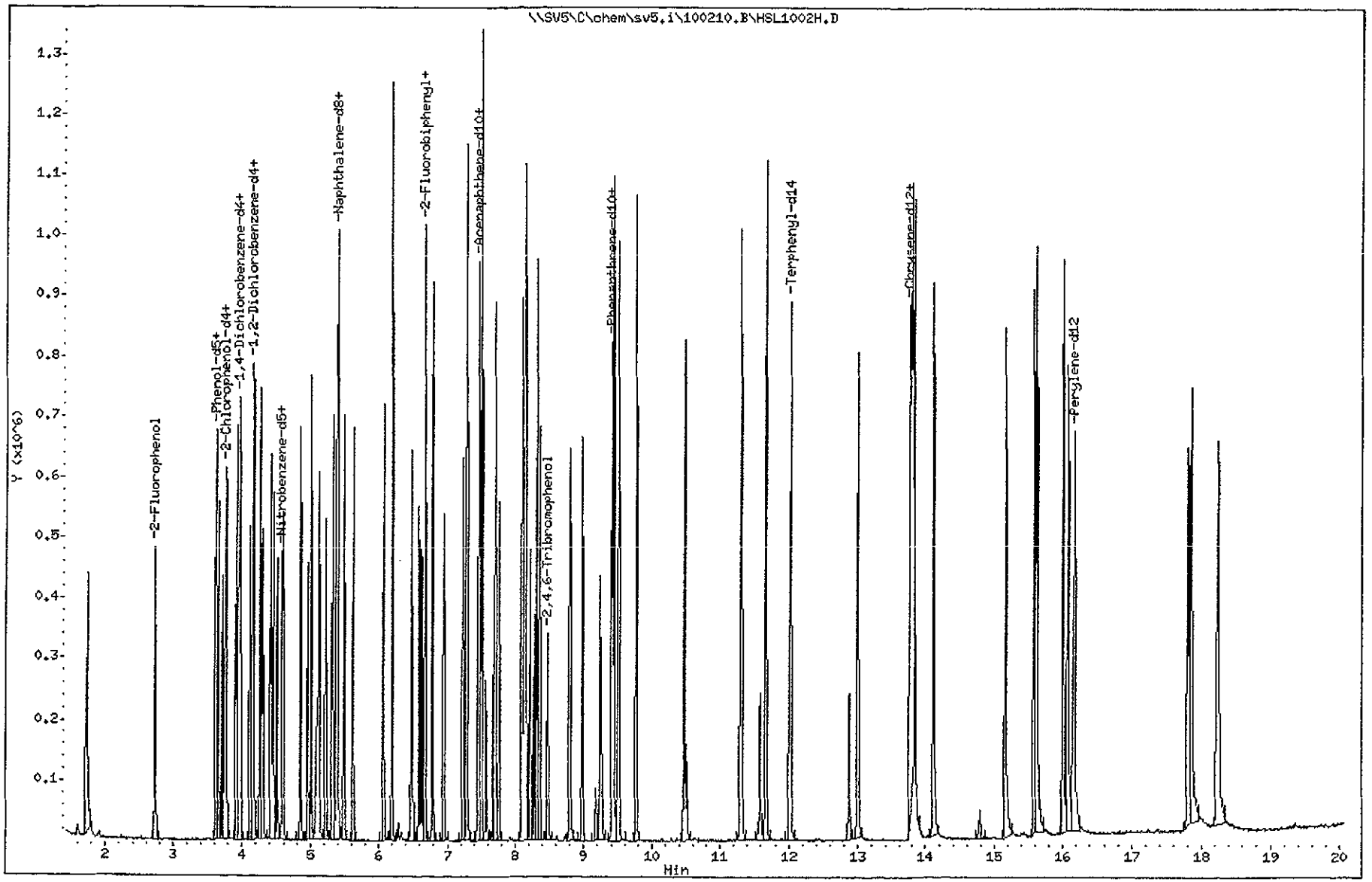
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002H.D
Date : 02-OCT-2010 16:11
Client ID: 8270F,M
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

VT
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)	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.

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

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

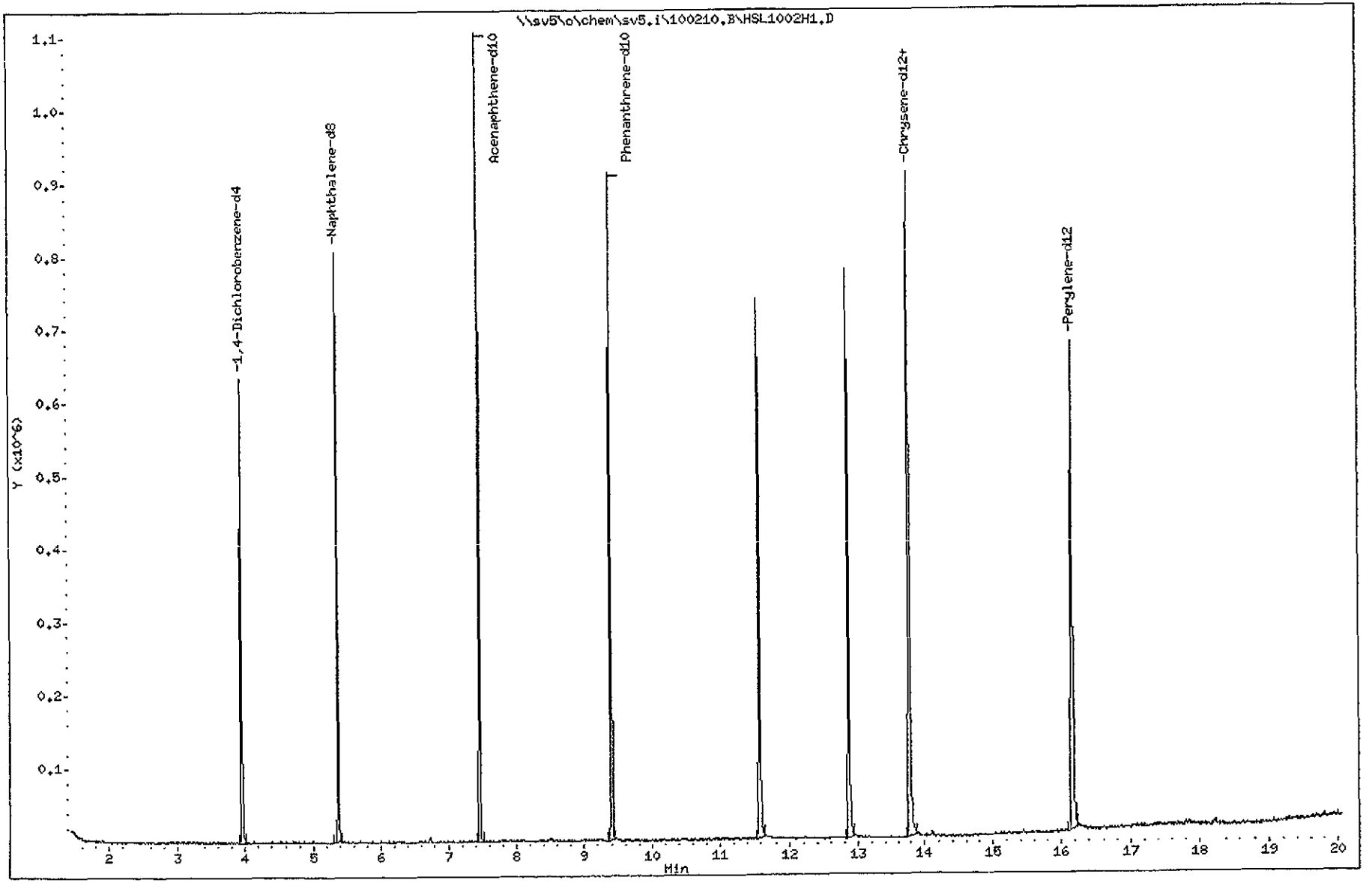
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\sv5\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

Instrument: sv5.i

Operator: KT
Column diameter: 2.00

Column phase:



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		
	1.57029						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

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Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit : 03-Oct-2010 11:07 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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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							
47 Bis(2-chloroethoxy)methane	0.41146	0.37494	0.38565	0.38249	0.38500	0.39859		
	0.36545						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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Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit : 03-Oct-2010 11:07 sv5.i
Curve Type : Average

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

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

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Quant Method : ISTD
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Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit : 03-Oct-2010 11:07 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							
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	2.096
92 Diethylphthalate	1.22240	1.29889	1.31549	1.37912	1.31873	1.37345		
	1.38087						1.32699	4.319
93 4-Chlorophenyl-phenylether	0.54964	0.55917	0.56887	0.59265	0.56708	0.57695		
	0.57695						0.57019	2.429
94 4-Nitroaniline	0.33346	0.33747	0.37329	0.38337	0.39216	0.39102		
	0.40452						0.37361	7.424
97 4,6-Dinitro-2-methylphenol	0.09316	0.10533	0.12545	0.13163	0.14105	0.15288		
	0.15229						0.12883	17.707
98 N-Nitrosodiphenylamine	0.57756	0.59736	0.60533	0.60433	0.62172	0.61801		
	0.61968						0.60628	2.577
100 Azobenzene	0.77527	0.76965	0.77321	0.79522	0.80064	0.81892		
	0.77331						0.78660	2.371
101 4-Bromophenyl-phenylether	0.18964	0.18507	0.19281	0.19931	0.19607	0.20581		
	0.19815						0.19527	3.488
108 Hexachlorobenzene	0.22958	0.22054	0.20740	0.21605	0.21731	0.21704		
	0.21854						0.21807	3.009
110 Pentachlorophenol	0.09427	0.09851	0.11582	0.11736	0.13228	0.13923		
	0.13770						0.11931	15.221

TestAmerica West Sacramento

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							
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						1.25965	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

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
End Cal Date : 02-OCT-2010 15:00
Quant Method : ISTD
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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							
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

INITIAL CALIBRATION DATA

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Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit : 03-Oct-2010 11:07 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
$ 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 Tox #291

Shared QC Batch: N/A

Shares QC With: N/A

TestAmericc
THE LEADER IN ENVIRONMENTAL TESTING

Internal COC:	
Delivered to Inst.:	12/7/10
Inst Receipt:	

Batch: 0336447

MS Run #:

Prep Date: 12/2/2010

Method: JZ TO-13

Matrix: S AIR

Extraction: 11 SOXHLET (NONE,Na2SO4)

QC: 3W AMBIENT AIR TESTING

SAC: JZ - S - 11 - 3W

RUSH

Prep Reagents

Reagent	Supplier	Lot #
1:1 DCM:Acetone	NA	N/A
DCM	Baker	J38503
Na2SO4	Baker	N/A

WS-OP-0006

Soxhlet time on: 17:00 (12/2/10) Soxhlet time off: 9:05 (12/3/10)

Extraction Table

Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size	Final Volume 1mL	Final Volume Other	Analysis Hold Time Expires
G0L020000 - 447	B	MAR231AA	12/6/2010	1.0	✓		1/8/2011
G0L020000 - 447	C	MAR231AC	12/6/2010	1.0	✓		1/8/2011
G0L020000 - 447	L	MAR231AD	12/6/2010	1.0	✓		1/8/2011
G0L020446 - 2		MAQQW1AA	12/6/2010	1.0	✓		1/8/2011
G0L020446 - 6		MAQQ91AA	12/7/2010	1.0	✓		1/9/2011
G0L020446 - 9		MAQRF1AA	12/7/2010	1.0	✓		1/9/2011

☑ XAD / PUF / ~~PUF-XAD~~
☐ Filter
☐ Impinger

Comments/NCMs: QC Media: sup 2sv19056/P101910

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Surrogate Spike All Samples	500uL / 10AIR0125 / AGN Surr	4/4/11	ECf	TP	12/2/10
Spike Mix LCS/~~LCSD/MS/MSD~~ ECf 12/2/10	1.0mL / 100P0309 / 8270 LCS Mix	5/23/11	ECf	TP	12/2/10
Pre-Spike Standard ~~All Samples~~ MB only ECf 12/2/10	250uL / 10AIR0128 / 1,2 DCB d4	4/19/11	ECf	TP	12/2/10
Internal Standard All Samples	20uL 10MSSV04258	11-19-11		VMN	12-7-10

Soxhlet Extraction Analyst/Date	ECf 12/2/10	Concentration Analyst/Date	ECf 12/7/10	KD Analyst/Date	ECf 12/6/10
Liq Liq Extraction Analyst/Date	N/A	KD Temp	85°C	Review Analyst/Date	12/7/10

RUSH

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 12/07/10
Time: 12:39:27

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

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

Extractionist: 403162 erica X. larson

Concentrationist: 403162 erica X. larson

QC BATCH: 0336447

PREP DATE: 12/02/10 17:00
COMP DATE: 12/03/10 17:00

Reviewer/Date: LARSONE / 12/07/10

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	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
12/06/10	12/09/10	G0L020446-002 **MAQQW-1-AA**	R	11	JZ	AIR	**1.0Sample** 1.00mL	NA	NA	NA	DCM	700.0		.0	500UL/10AIR0125/ABN SURR
COMMENTS:															
12/07/10	12/09/10	G0L020446-006 **MAQQ9-1-AA**	R	11	JZ	AIR	**1.0Sample** 1.00mL	NA	NA	NA	DCM	700.0		.0	500UL/10AIR0125/ABN SURR
COMMENTS:															
12/07/10	12/09/10	G0L020446-009 **MAQRF-1-AA**	R	11	JZ	AIR	**1.0Sample** 1.00mL	NA	NA	NA	DCM	700.0		.0	500UL/10AIR0125/ABN SURR
COMMENTS:															
12/06/10	0/00/00	G0L020000-447 **MAR23-1-AAB**		11	JZ	AIR	**1.0Sample** 1.00mL	NA	NA	NA	DCM	700.0		.0	250UL/10AIR0128/1,2-DCB 500UL/10AIR0125/ABN SURR
COMMENTS:															
12/06/10	0/00/00	G0L020000-447 **MAR23-1-ACC**		11	JZ	AIR	**1.0Sample** 1.00mL	NA	NA	NA	DCM	700.0		.0	1.0ML/10OP0309/8270 MIX 500UL/10AIR0125/ABN SURR
COMMENTS:															
12/06/10	0/00/00	G0L020000-447 **MAR23-1-ADL**	R	11	JZ	AIR	**1.0Sample** 1.00mL	NA	NA	NA	DCM	700.0		.0	1.0ML/10OP0309/8270 MIX 500UL/10AIR0125/ABN SURR
COMMENTS:															

QC MEDIA: SUP2SV19056/P101910

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 6

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 0336447 **Test:** TO-13

Prep Date: 12/2/10 **Holding Times:** 12/6/10 - 12/7/10 **NCM:** Y (N)

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1. **Holding times checked?** NCMs filed as appropriate	✓	✓
2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)	✓	✓
3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match.	✓	NA
4. Worksheets have been checked for required spiking compounds	✓	✓
5. Spiking volumes are correctly documented	✓	✓
6. Std ID numbers on spike labels match numbers on bench sheet	✓	NA
7. Expiration dates have been checked	✓	✓
8. Calibration expiration dates on pipettors have been checked	✓	NA
9. Spiker and spike witness have signed and dated bench sheet	✓	✓
B. Weights and Volumes		
1. Recorded weights are in anticipated range	NA	✓
2. Balance upload or raw data for weights is included	NA	✓
3. Weights and volumes have been transcribed correctly to LIMS.	NA	✓
4. Weights are not targeted to meet exact weights.	NA	✓
5. Each weight or volume measurement is a unique record (no dittos or line downs)	NA	✓
C. Standards and Reagents		
1. Lot numbers for all reagents, including clean up stages, are recorded.	NA	✓
2. Are dates and analysts for cleanups recorded?	NA	✓
3. Are correct IDs used for standards? Are expiration dates to day/month/year, when listed?	NA	✓
D. Documentation		
1. Are all nonconformances documented appropriately?	NA	✓
2. QuantIMs entry correct, including dates and times.	NA	✓
3. Are all fields completed?	NA	✓

air samples

Spike witness: TP Date: 12/2/10

2nd Level Reviewer: [signature] Date: 12/7/10

Comments:

TestAmerica West Sacramento

GC/MS Data Review Checklist

Batch: 0336447 **Method ID:** Semivolatile Organics by GCMS in Air (TO-13A)

NCM: (Y) N

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: LB Date: 12/8/10

2nd Level Reviewer: [signature] Date: 12/9/10

Comments: _____

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: MAVWM-1-AA Sample text: MAVWM-1-AA :G0L020446-1MB
Run #8 Filename: 07DE104D5 S: 3 I: 1 Results: 07DE104D5TO9
Acquired: 7-DEC-10 12:09:14 Processed: 7-DEC-10 14:07:22
Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5
Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

12/8/10 MC

Name	Resp	RA		RT	RRF	Conc		EDL	Rec	M
13C-1,2,3,4-TCDD	142776800	0.79	y	19:55	-	85.497		-	-	n
13C-2,3,7,8-TCDF	161760600	0.79	y	19:19	1.23	3686.396		~~2.787~~	92.2	n
2,3,7,8-TCDF	*	*	n	NotFnd	0.99	*		5.235	-	n
Total TCDF	*	*	n	NotFnd	0.99	*		5.235	-	n
13C-2,3,7,8-TCDD	122835300	0.81	y	20:07	0.91	3802.334		6~~.836~~	95.1	n
2,3,7,8-TCDD	*	*	n	NotFnd	0.98	*		1.915	-	n
Total TCDD	*	*	n	NotFnd	0.98	*		1.915	-	n
37Cl-2,3,7,8-TCDD	66322400	1.00	y	20:09	1.33	1628.661		1.532	101.8	n
13C-1,2,3,7,8-PeCDF	128187600	1.58	y	25:11	0.88	4099.393		6~~.374~~	102.5	n
1,2,3,7,8-PeCDF	*	*	n	NotFnd	1.08	*		2.022	-	n
2,3,4,7,8-PeCDF	*	*	n	NotFnd	1.05	*		2.082	-	n
Total F2 PeCDF	*	*	n	NotFnd	1.06	*		~~2.052~~	-	n
Total F1 PeCDF	14633	0.47	n	19:31	1.06	0~~.430~~		2.196	-	n
13C-1,2,3,7,8-PeCDD	91607500	1.61	y	27:35	0.66	3883.713		3.040	97.1	n
1,2,3,7,8-PeCDD	11309	0.63	n	27:40	0.93	0~~.534~~		3.552	-	n
Total PeCDD	48001	2.01	n	25:09	0.93	~~2.265~~		3.552	-	n
13C-1,2,3,7,8,9-HxCDD	88518000	1.26	y	33:22	-	74.762		-	-	n
13C-1,2,3,4,7,8-HxCDF	80451300	0.49	y	32:15	1.04	3479.637		~~1.947~~	87.0	n
1,2,3,4,7,8-HxCDF	16078	0.42	n	32:17	1.22	0~~.657~~		1.332	-	n
1,2,3,6,7,8-HxCDF	8358	0.23	n	32:22	1.28	0~~.324~~		1.265	-	n
2,3,4,6,7,8-HxCDF	30629	0.91	n	32:56	1.23	~~1.235~~		1.314	-	n
1,2,3,7,8,9-HxCDF	16606	0.61	n	33:33	1.10	0~~.752~~		1.476	-	n
Total HxCDF	71671	0.42	n	32:17	1.21	~~2.967~~		~~1.342~~ 1.476 ✓	-	n
13C-1,2,3,6,7,8-HxCDD	72559600	1.16	y	33:06	0.83	3946.676		1.304	98.7	n
1,2,3,4,7,8-HxCDD	22202	1.43	n	33:03	1.04	1~~.180~~		2.056	-	n
1,2,3,6,7,8-HxCDD	19092	1.14	y	33:07	1.16	0~~.905~~		1.834	-	n
1,2,3,7,8,9-HxCDD	30866	0.94	n	33:23	1.18	~~1.440~~		1.804	-	n
Total HxCDD	126951	1.35	y	32:54	1.13	6~~.205~~		~~1.892~~ 2.056 JV	-	n
13C-1,2,3,4,6,7,8-HpCDF	65056400	0.44	y	34:52	0.91	3230.475		14.885	80.8	n
1,2,3,4,6,7,8-HpCDF	64360	1.52	n	34:51	1.35	2.940	J,Q	1.986	-	n
1,2,3,4,7,8,9-HpCDF	*	*	n	NotFnd	1.09	*		2.445	-	n
Total HpCDF	64360	1.52	n	34:51	1.22	2.940	✓	2.192	-	n
13C-1,2,3,4,6,7,8-HpCDD	59684300	1.05	y	35:41	0.83	3262.797		11.326	81.6	n
1,2,3,4,6,7,8-HpCDD	38593	0.98	y	35:42	1.07	2~~.413~~		2.670	-	n
Total HpCDD	111489	3.25	n	34:52	1.07	6~~.972~~ 2.766 ✓		2.670	-	n
13C-OCDD	84787200	0.89	y	38:14	0.62	6180.709		7.330	77.3	n

OCDF	*	*	n	NotFnd	1.37	*		3.547	-	n		
OCDD	258873	0.84	y	38:14	1.20	20.366	J	3.261	-	n		

Run Text: MAVWM-1-AA Sample text: MAVWM-1-AA :G0L020446-1MB

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:0
Run: 8 File: 07DE104D5 S:3 Acq:7-DEC-10 12:09:14
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

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: MAVWM-1-AA Sample text: MAVWM-1-AA :G0L020446-1MB

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:0
Run: 8 File: 07DE104D5 S:3 Acq:7-DEC-10 12:09:14
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

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: MAVWM-1-AA Sample text: MAVWM-1-AA :G0L020446-1MB

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:0
Run: 8 File: 07DE104D5 S:3 Acq:7-DEC-10 12:09:14
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

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: MAVWM-1-AA Sample text: MAVWM-1-AA :G0L020446-1MB

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:1
Run: 8 File: 07DE104D5 S:3 Acq:7-DEC-10 12:09:14
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

Amount:	0.215 of which	* named and	0.215	unnamed	
Conc:	0.430 of which	* named and	0.430	unnamed	

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	19:31	0.475 n	0.430	8895	1.597	n	n
					18736	2.485	n	n

Run Text: MAVWM-1-AA Sample text: MAVWM-1-AA :G0L020446-1MB

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:4
Run: 8 File: 07DE104D5 S:3 Acq:7-DEC-10 12:09:14
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

Amount:	1.132 of which	0.267 named and	0.866	unnamed	
Conc:	2.265 of which	0.534 named and	1.731	unnamed	

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	25:09	2.009 n	0.573	9569	1.219	n	n
					4763	1.287	n	n
	2	25:28	1.605 y	0.654	8537	1.385	n	n
					5318	1.654	n	n
1,2,3,7,8-PeCDD	3	27:40	0.631 n	0.534	6874	0.969	n	n
					10892	3.598	y	n
	4	28:01	1.695 y	0.504	6723	1.083	n	n
					3967	1.091	n	n

Run Text: MAVWM-1-AA Sample text: MAVWM-1-AA :G0L020446-1MB

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:4
Run: 8 File: 07DE104D5 S:3 Acq:7-DEC-10 12:09:14
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

Amount:	1.484 of which	1.484 named and	*	unnamed
Conc:	2.967 of which	2.967 named and	*	unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,7,8-HxCDF	1	32:17	0.415 n	0.657	8900	1.352	n	n
					21446	3.479	y	n
1,2,3,6,7,8-HxCDF	2	32:22	0.233 n	0.324	4627	0.796	n	n
					19890	4.840	y	n
2,3,4,6,7,8-HxCDF	3	32:56	0.911 n	1.235	16955	2.037	n	n
					18611	5.412	y	n
1,2,3,7,8,9-HxCDF	4	33:33	0.613 n	0.752	9193	1.422	n	n
					14991	4.298	y	n

Run Text: MAVWM-1-AA Sample text: MAVWM-1-AA :G0L020446-1MB

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:5
Run: 8 File: 07DE104D5 S:3 Acq:7-DEC-10 12:09:14
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

Amount:	3.102 of which	1.763 named and	1.340	unnamed	
Conc:	6.205 of which	3.525 named and	2.680	unnamed	

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:54	1.349 y	2.210	25950	5.794	y	n
					19238	1.145	n	n
1,2,3,4,7,8-HxCDD	2	33:03	1.432 n	1.180	14195	4.526	y	n
					9912	1.338	n	n
1,2,3,6,7,8-HxCDD	3	33:07	1.139 y	0.905	10165	3.449	y	n
					8927	1.266	n	n
	4	33:12	0.596 n	0.470	5316	1.622	n	n
					8927	1.266	n	n
1,2,3,7,8,9-HxCDD	5	33:23	0.942 n	1.440	17086	3.282	y	n
					18132	2.785	n	n

2 peaks < EDL each. 12/8/10 MW

Run Text: MAVWM-1-AA Sample text: MAVWM-1-AA :G0L020446-1MB

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:1
Run: 8 File: 07DE104D5 S:3 Acq:7-DEC-10 12:09:14
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

Amount:	1.470 of which	1.470 named and	*	unnamed	
Conc:	2.940 of which	2.940 named and	*	unnamed	

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	34:51	1.524 n	2.940	48084	5.423	y	n
					31549	5.485	y	n

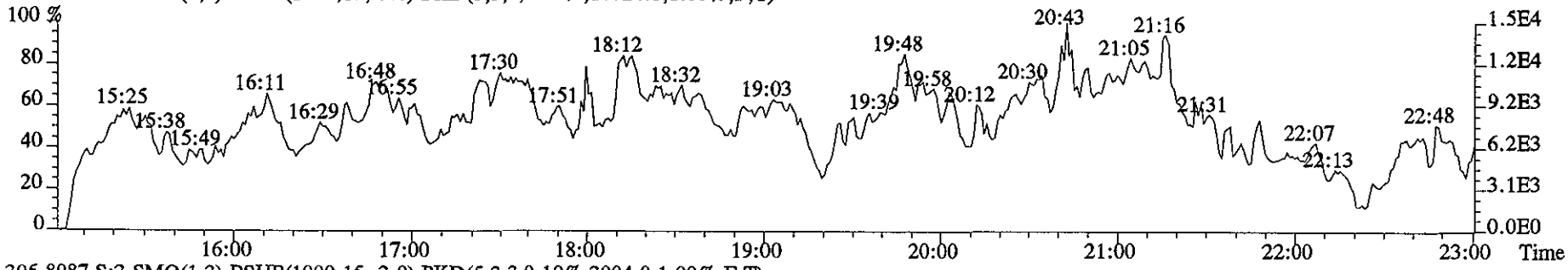
Run Text: MAVWM-1-AA Sample text: MAVWM-1-AA :G0L020446-1MB

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:4
Run: 8 File: 07DE104D5 S:3 Acq:7-DEC-10 12:09:14
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

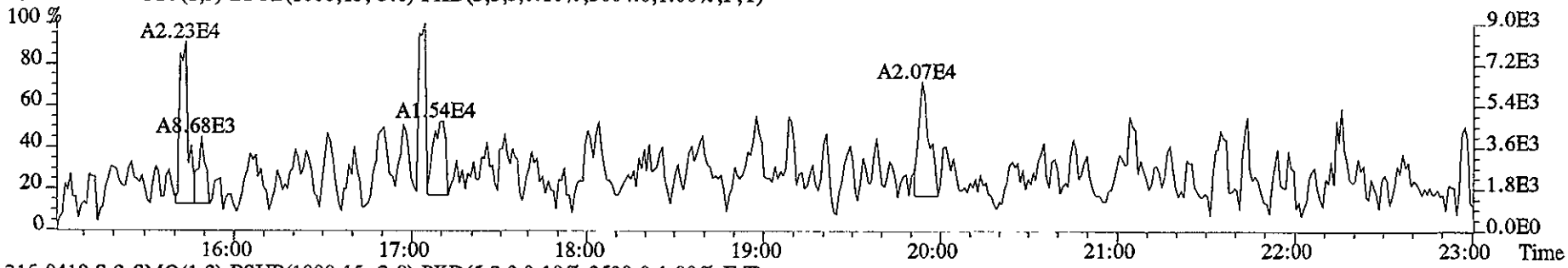
Amount:	3.486 of which	1.207 named and	2.279	unnamed	
Conc:	6.972 of which	2.413 named and	4.559	unnamed	

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?	
	1	34:52	3.248 n	1.043	26556	4.388	y	n	
					8177	2.349	n	n	
	2	35:07	1.339 n	2.766	29041	4.093	y	n	
					21683	3.916	y	n	
1,2,3,4,6,7,8-HpCDD	3	35:42	0.981 y	2.413	19110	2.331	n	n	< EM
					19483	4.404	y	n	
	4	36:00	4.824 n	0.749	28329	2.372	n	n	
					5873	1.083	n	n	

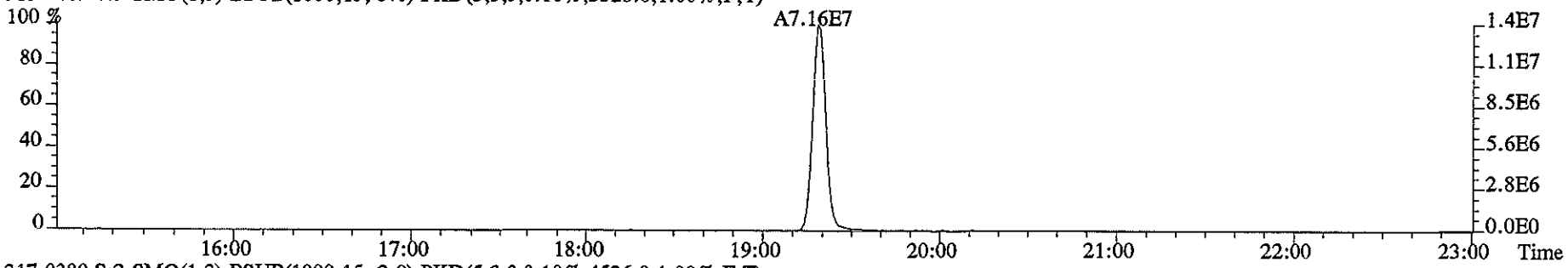
File:07DE104D5 #1-530 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10724.0,1.00%,F,T)



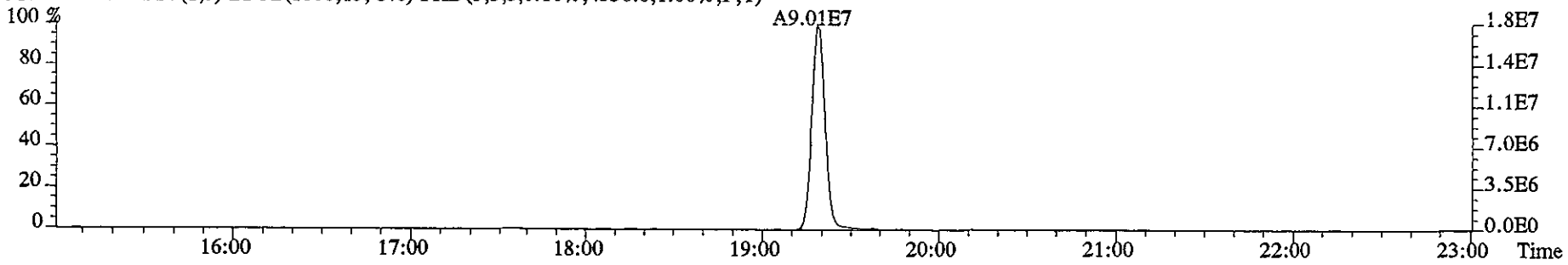
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3004.0,1.00%,F,T)



315.9419 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3528.0,1.00%,F,T)

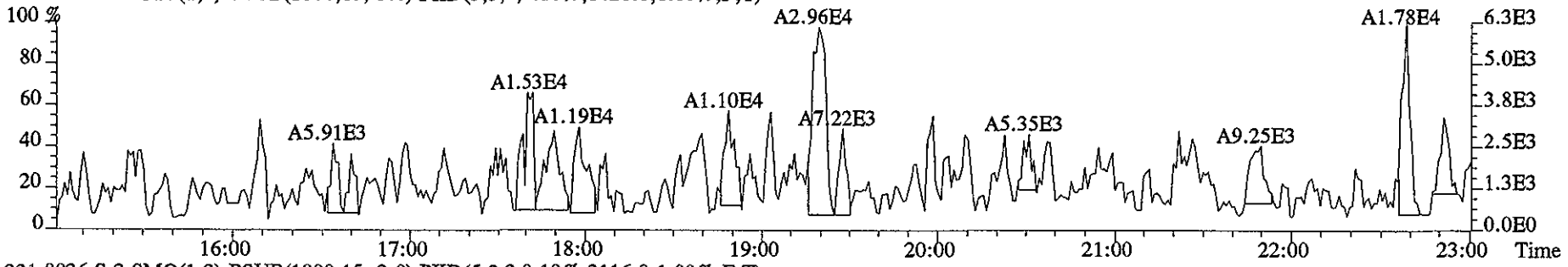


317.9389 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4536.0,1.00%,F,T)

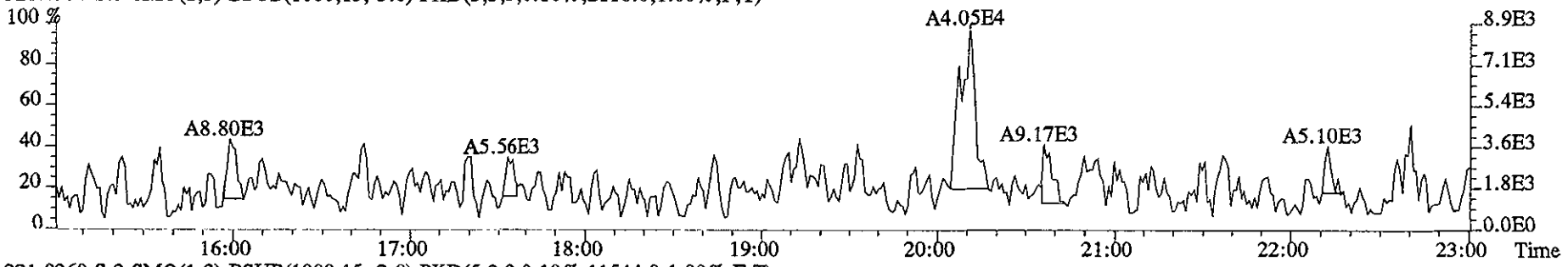


File:07DE104D5 #1-530 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES

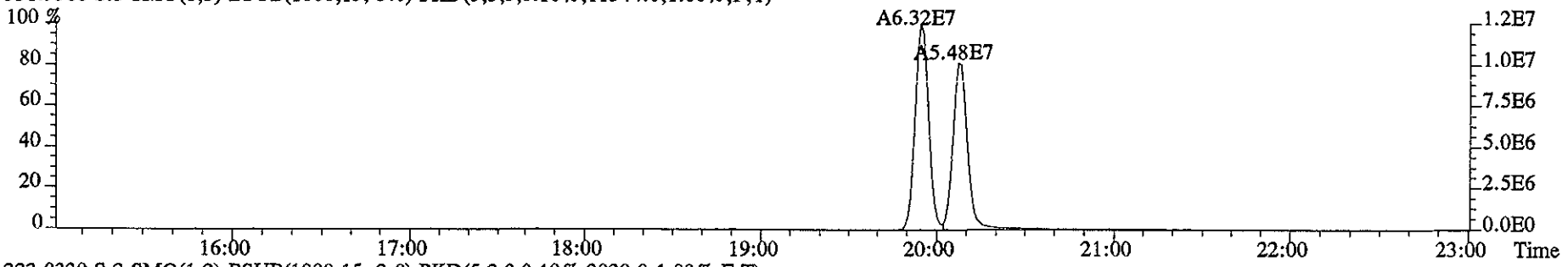
319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1428.0,1.00%,F,T)



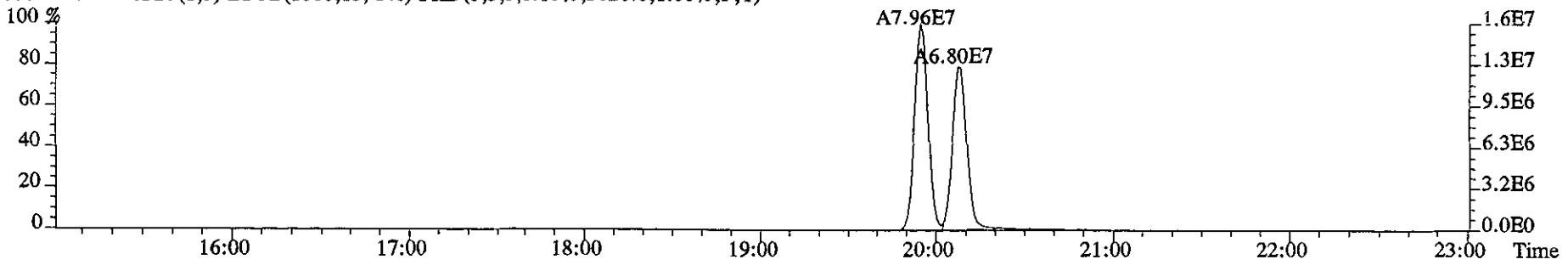
321.8936 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2116.0,1.00%,F,T)



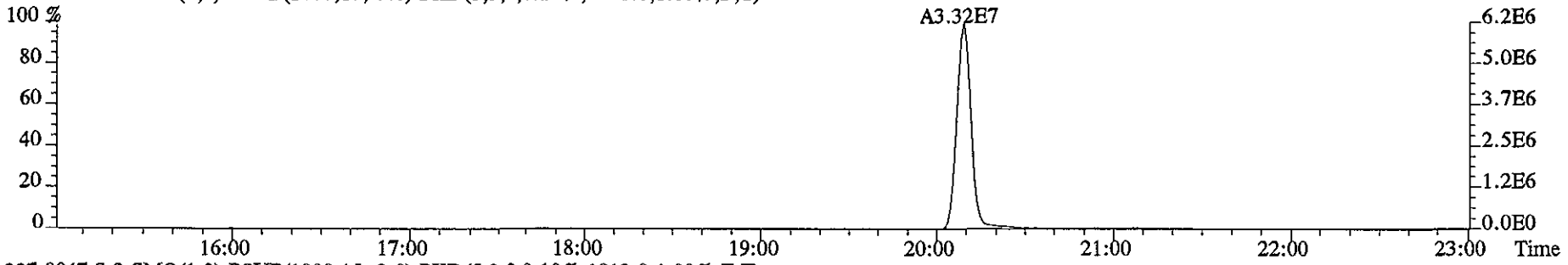
331.9368 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11544.0,1.00%,F,T)



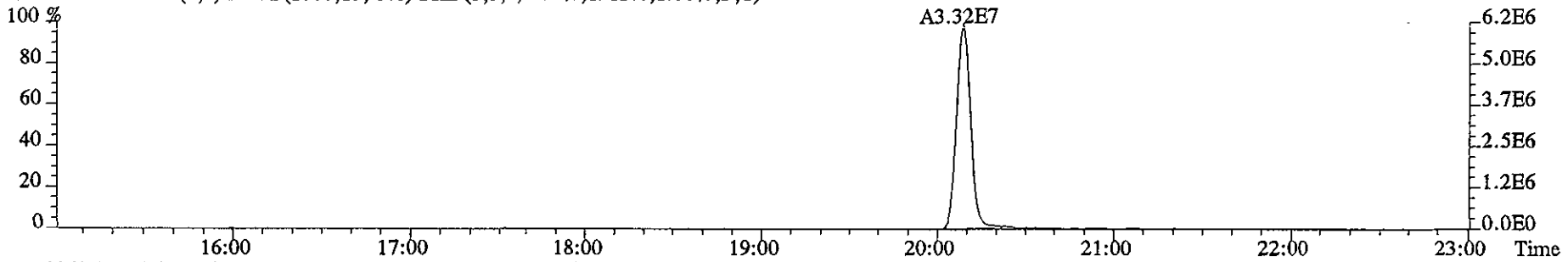
333.9339 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3020.0,1.00%,F,T)



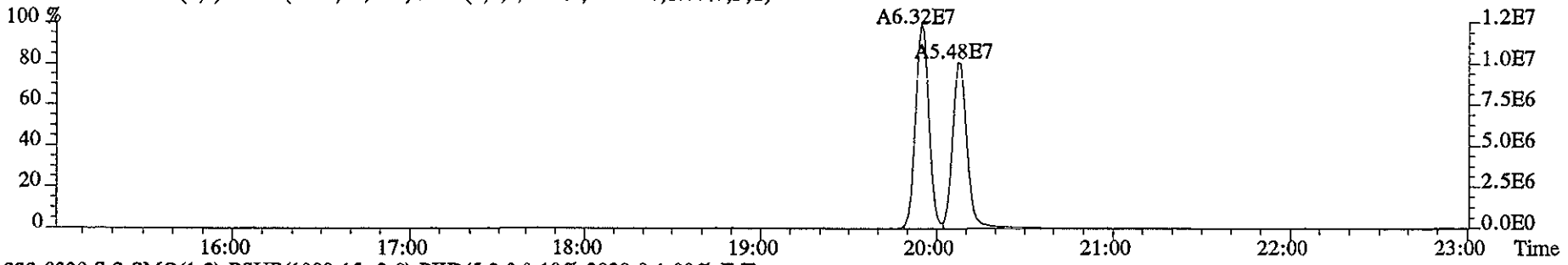
File:07DE104D5 #1-530 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES
327.8847 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1912.0,1.00%,F,T)



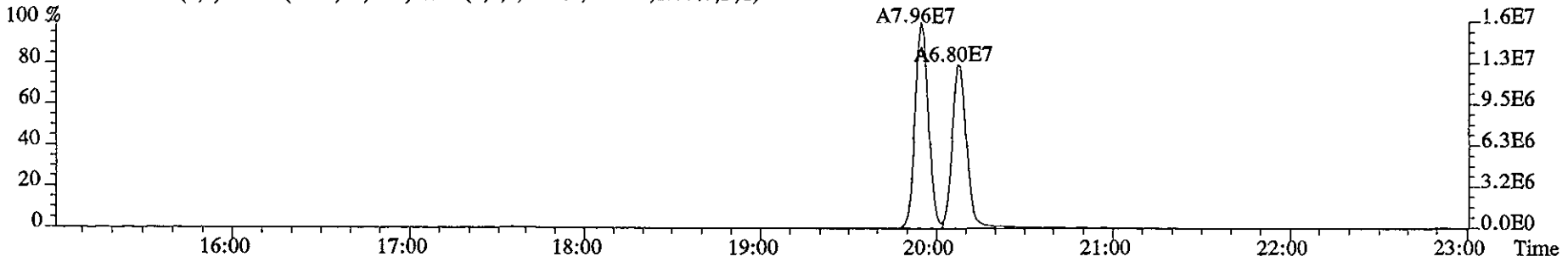
327.8847 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1912.0,1.00%,F,T)



331.9368 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11544.0,1.00%,F,T)

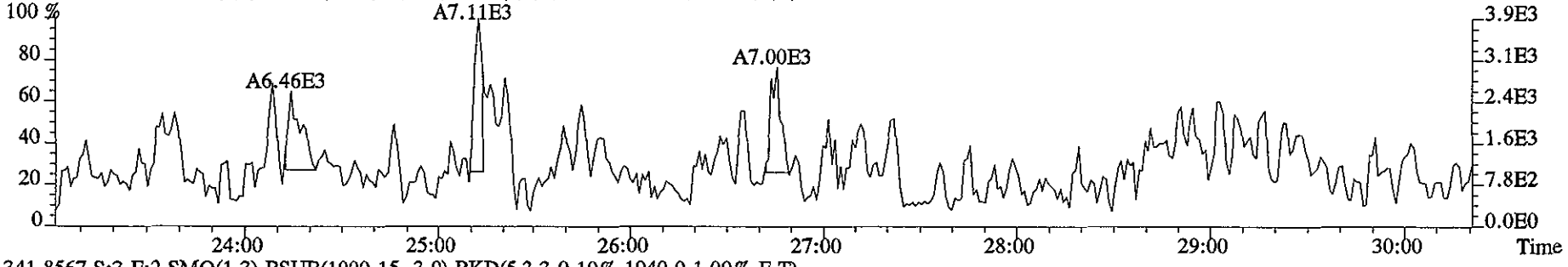


333.9339 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3020.0,1.00%,F,T)

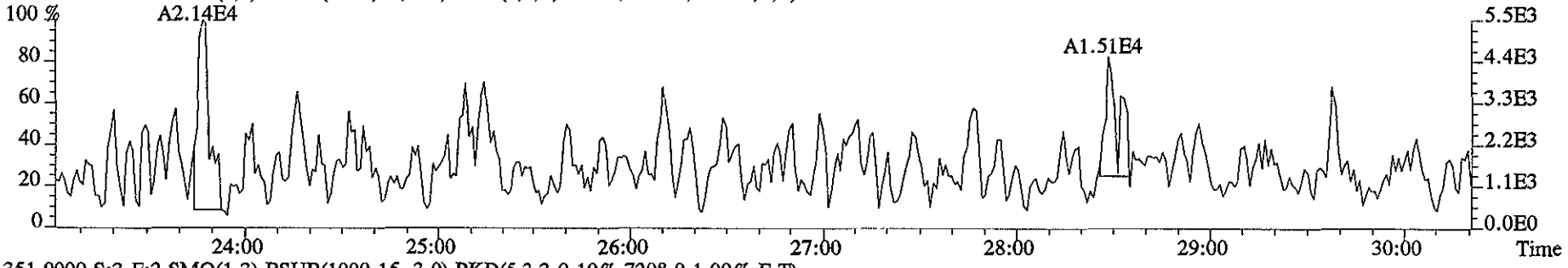


File:07DE104D5 #1-470 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES

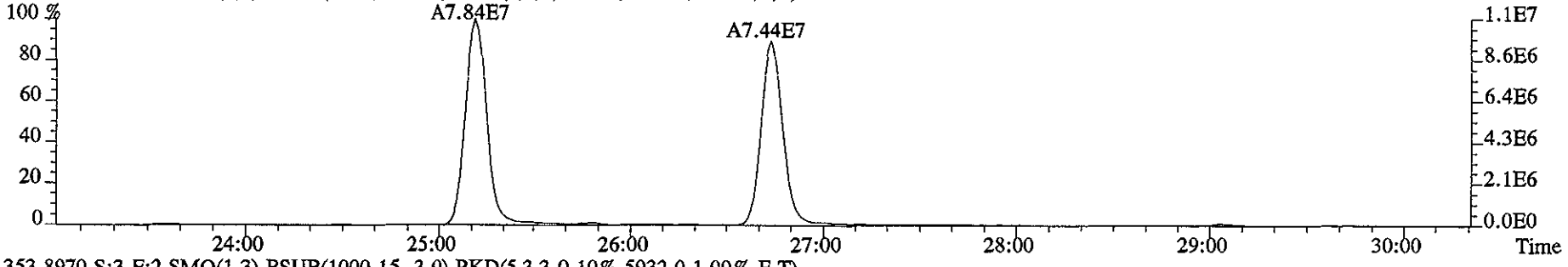
339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1260.0,1.00%,F,T)



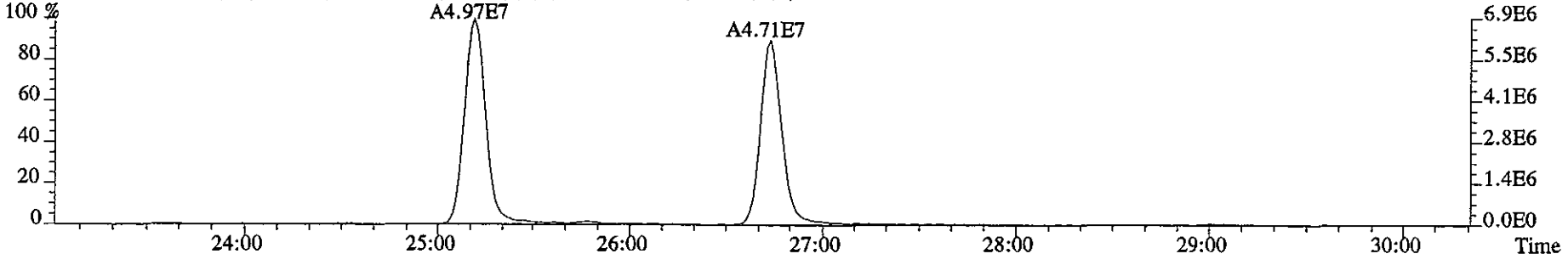
341.8567 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1940.0,1.00%,F,T)

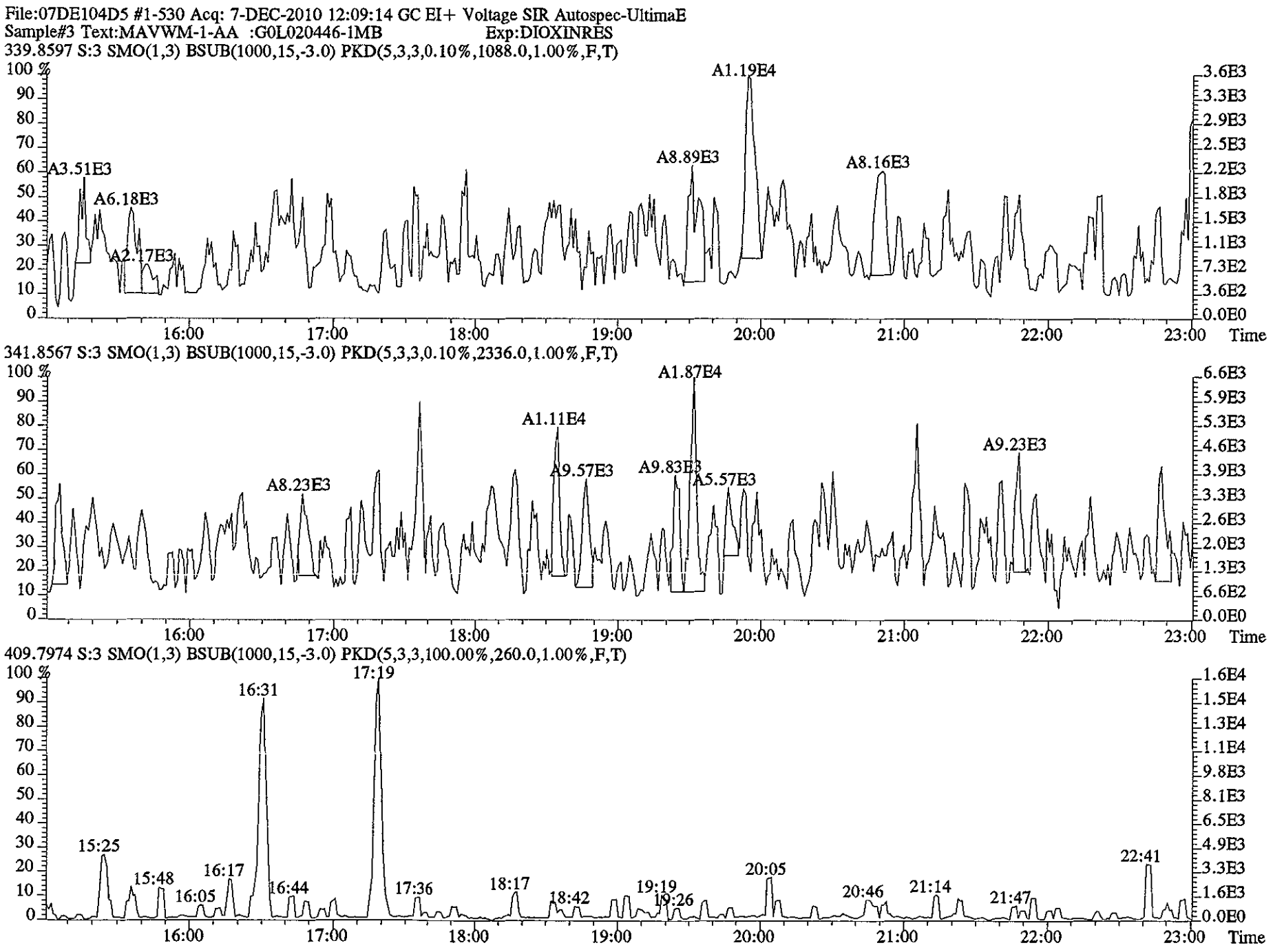


351.9000 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7208.0,1.00%,F,T)

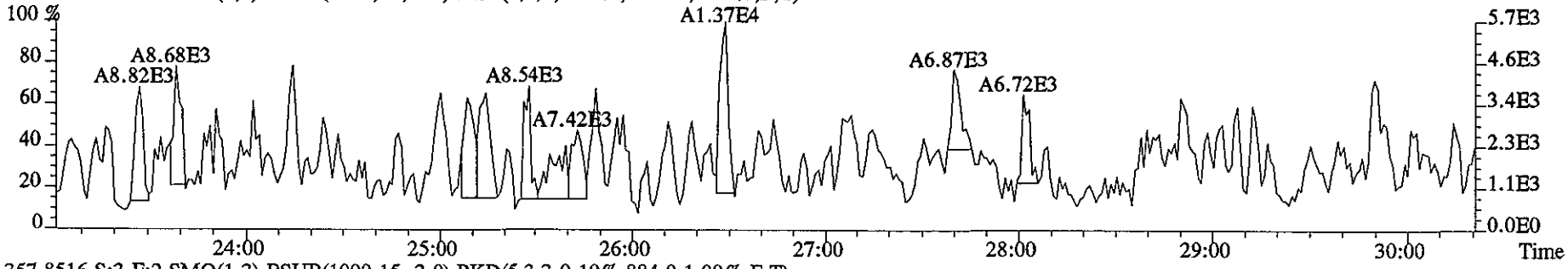


353.8970 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5932.0,1.00%,F,T)

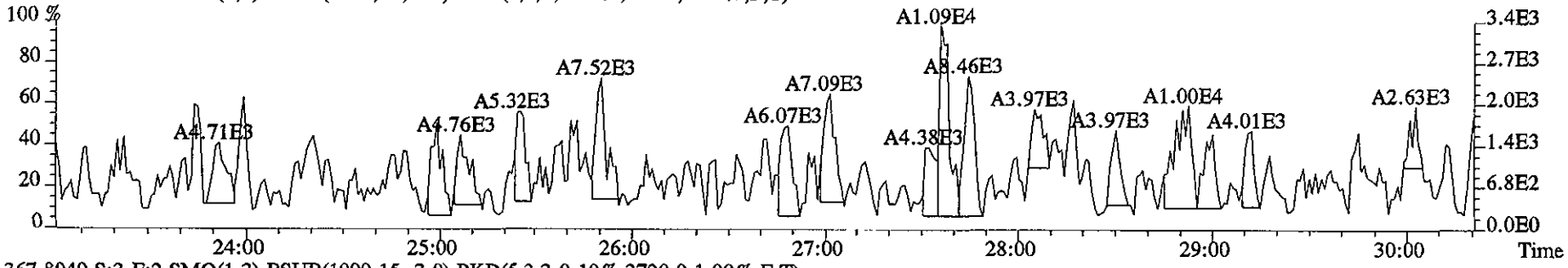



File:07DE104D5 #1-530 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES
339.8597 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1088.0,1.00%,F,T)
A1.19E4
A8.89E3
A8.16E3
A3.51E3
A6.18E3
A2.17E3
341.8567 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2336.0,1.00%,F,T)
A1.87E4
A1.11E4
A9.23E3
A9.57E3
A9.83E3
A5.57E3
A8.23E3
409.7974 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,260.0,1.00%,F,T)
17:19
16:31
15:25
15:48
16:17
16:05
16:44
17:36
18:17
18:42
19:19
19:26
20:05
20:46
21:14
21:47
22:41
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
Time

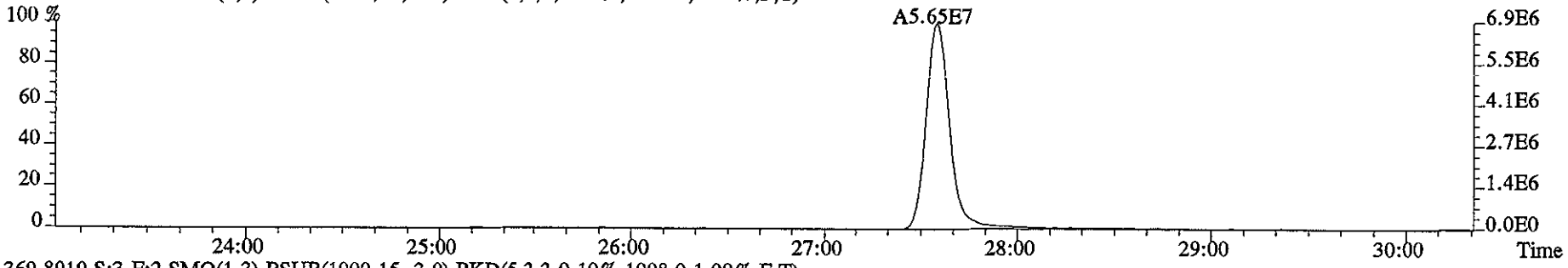
File:07DE104D5 #1-470 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES
355.8546 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2232.0,1.00%,F,T)



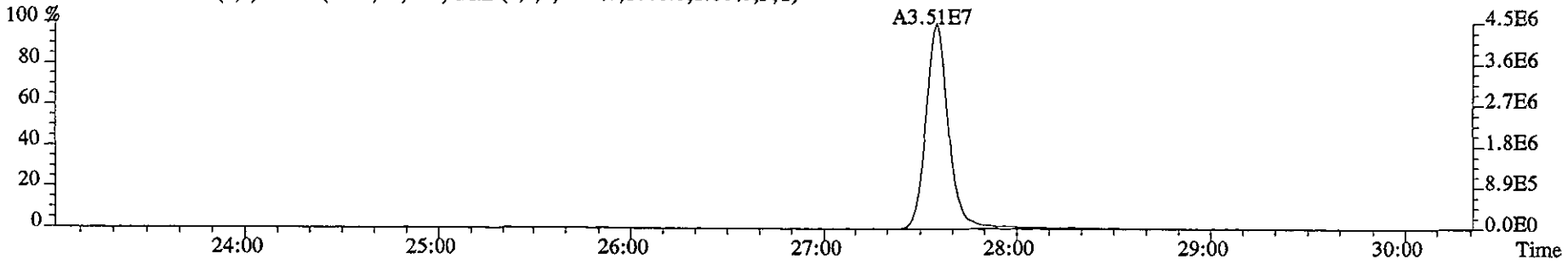
357.8516 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,884.0,1.00%,F,T)



367.8949 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3720.0,1.00%,F,T)

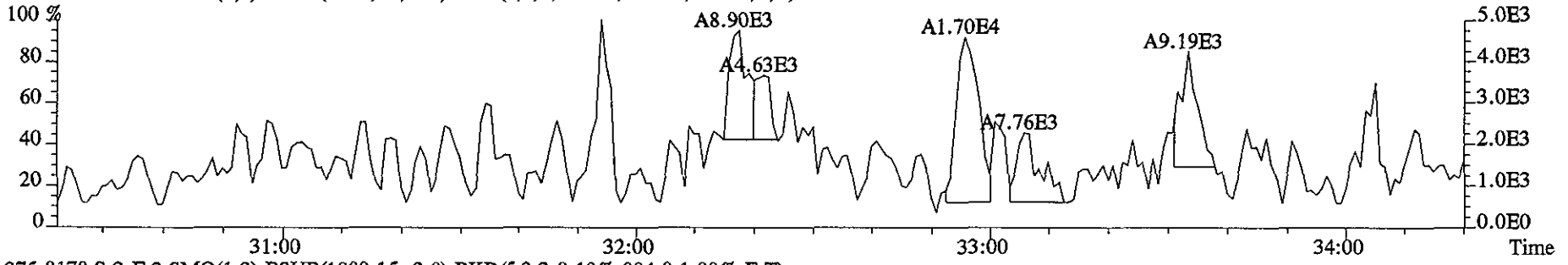


369.8919 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1008.0,1.00%,F,T)

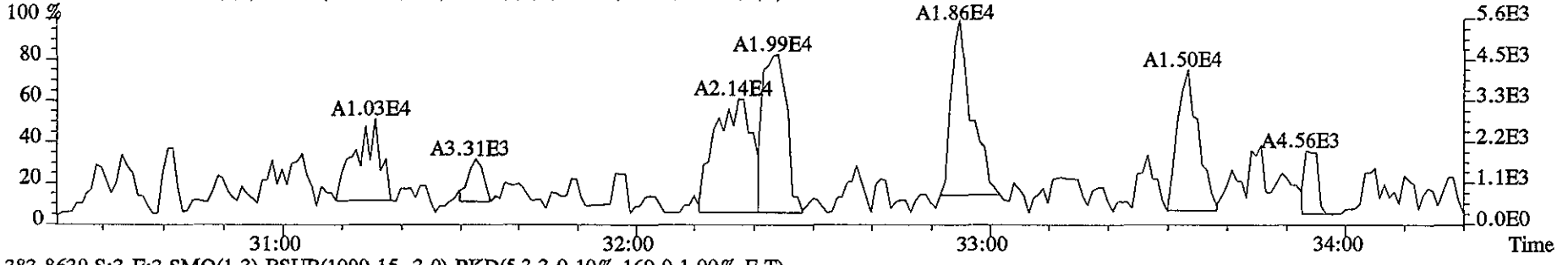


File:07DE104D5 #1-286 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES

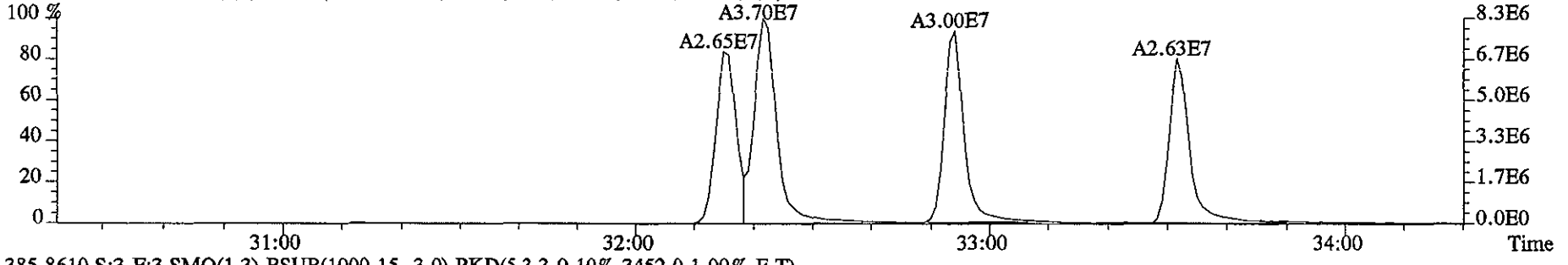
373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1956.0,1.00%,F,T)



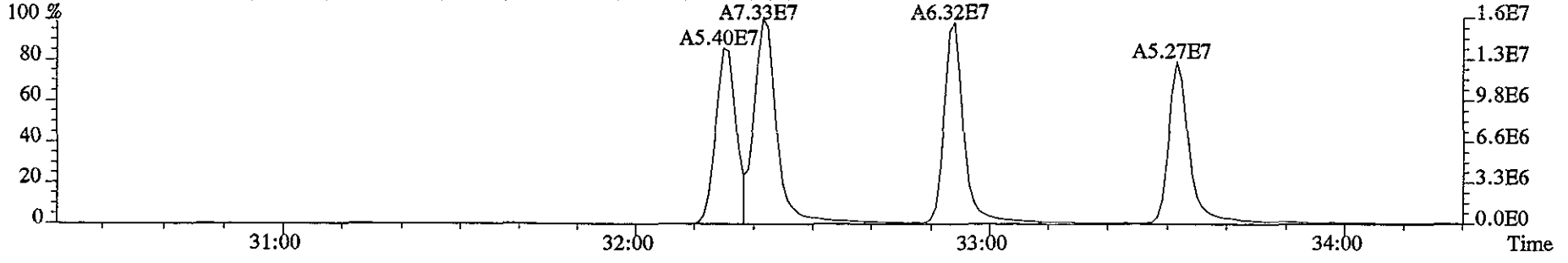
375.8178 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,884.0,1.00%,F,T)



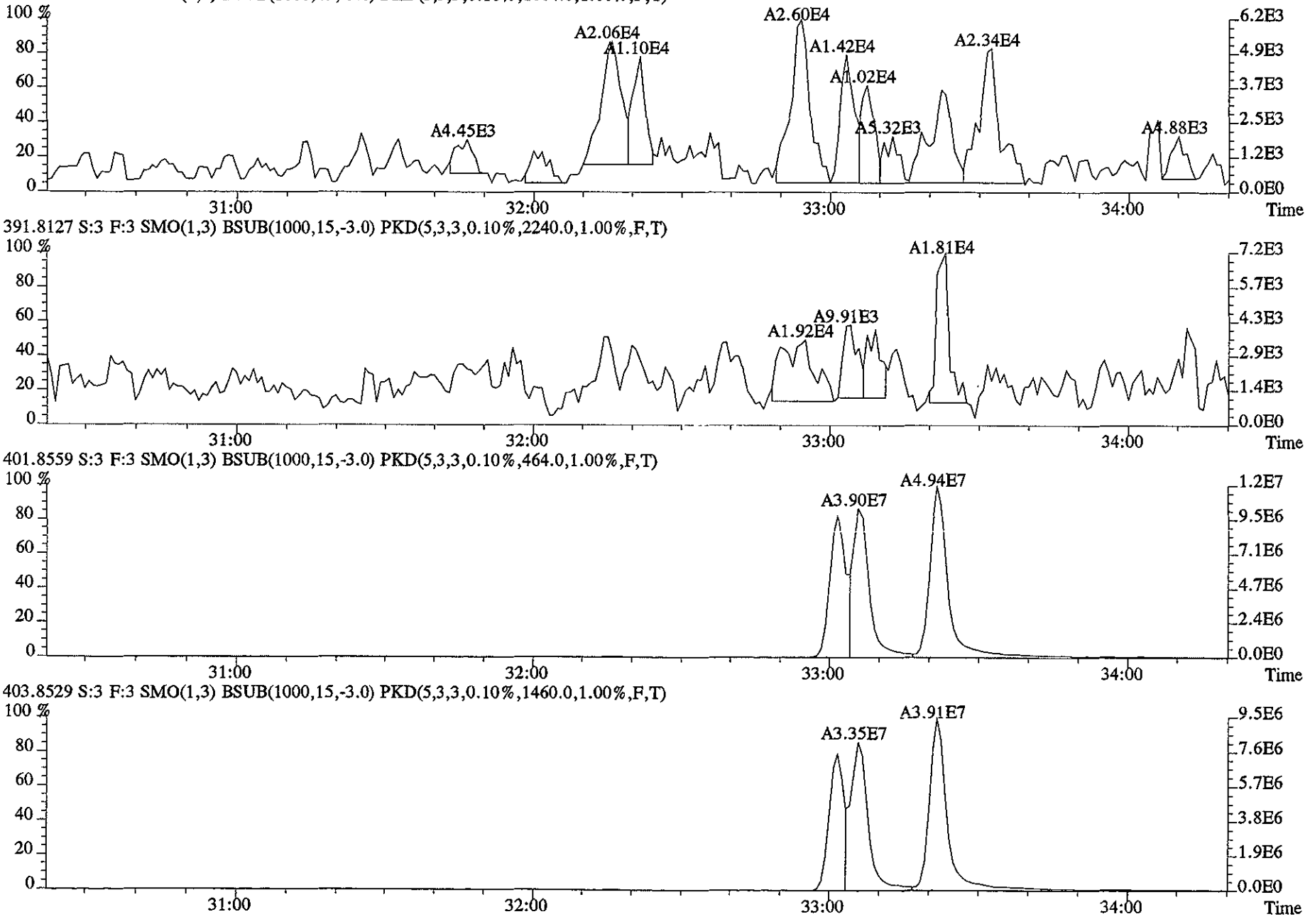
383.8639 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,160.0,1.00%,F,T)

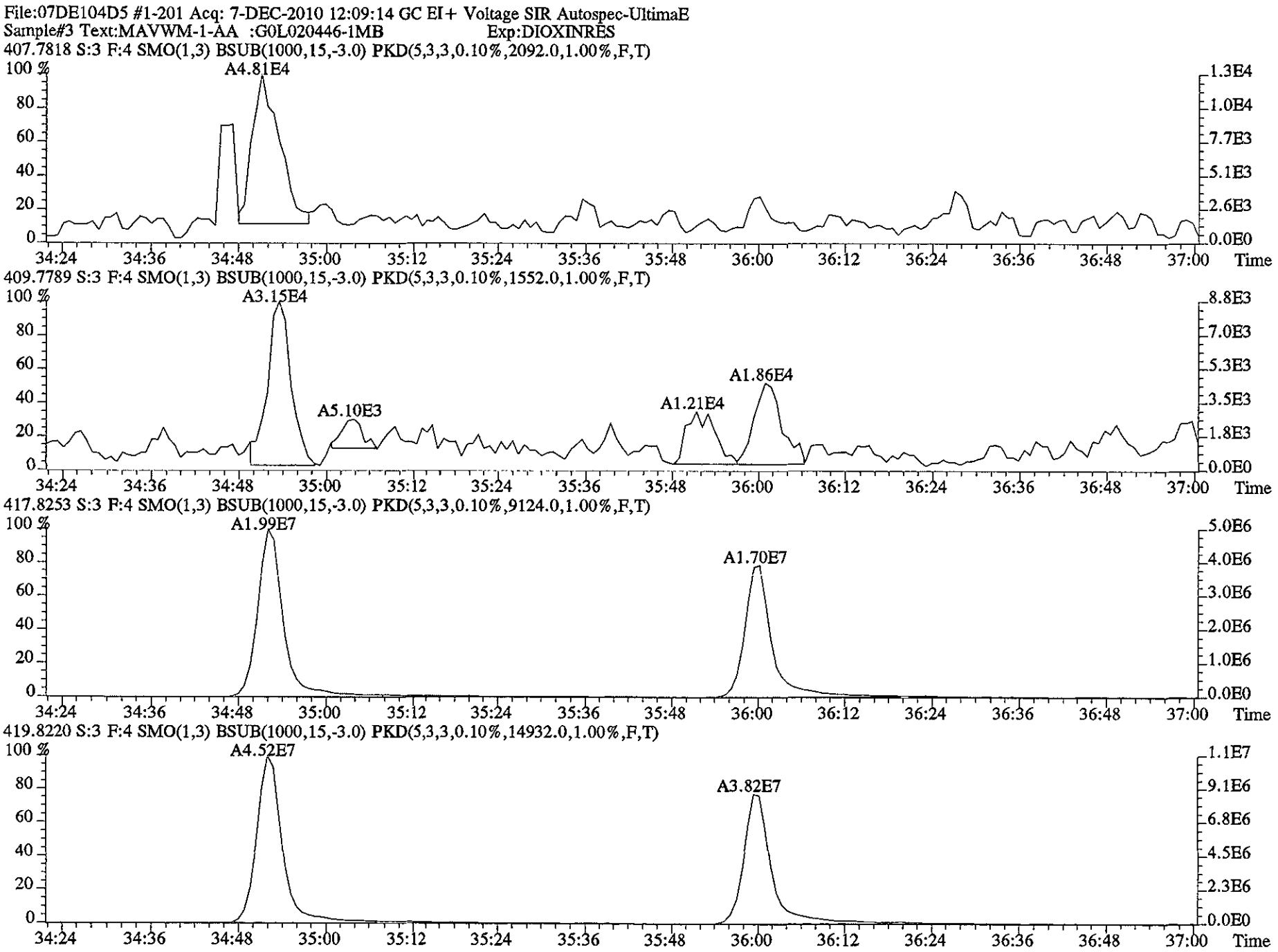


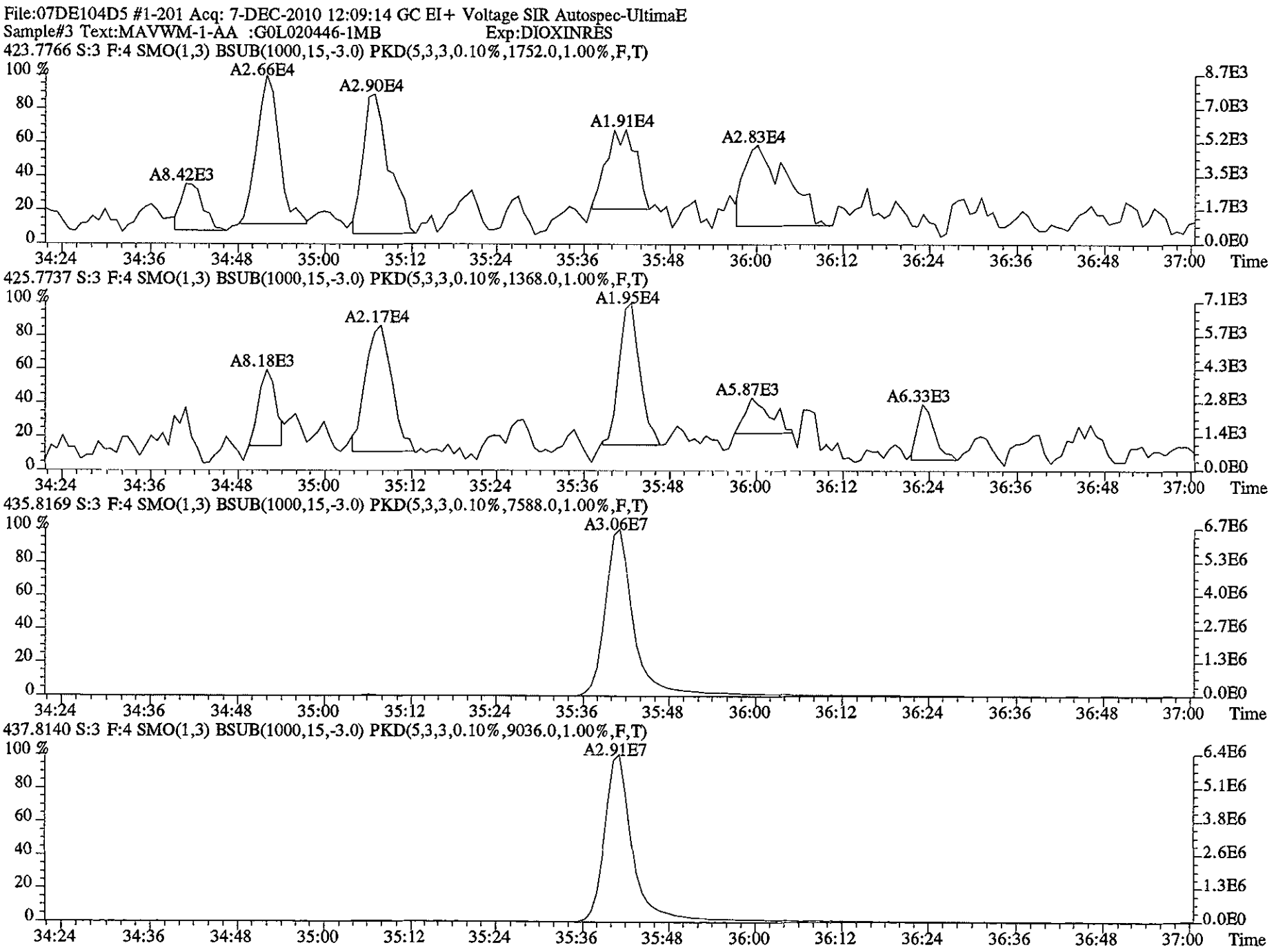
385.8610 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3452.0,1.00%,F,T)



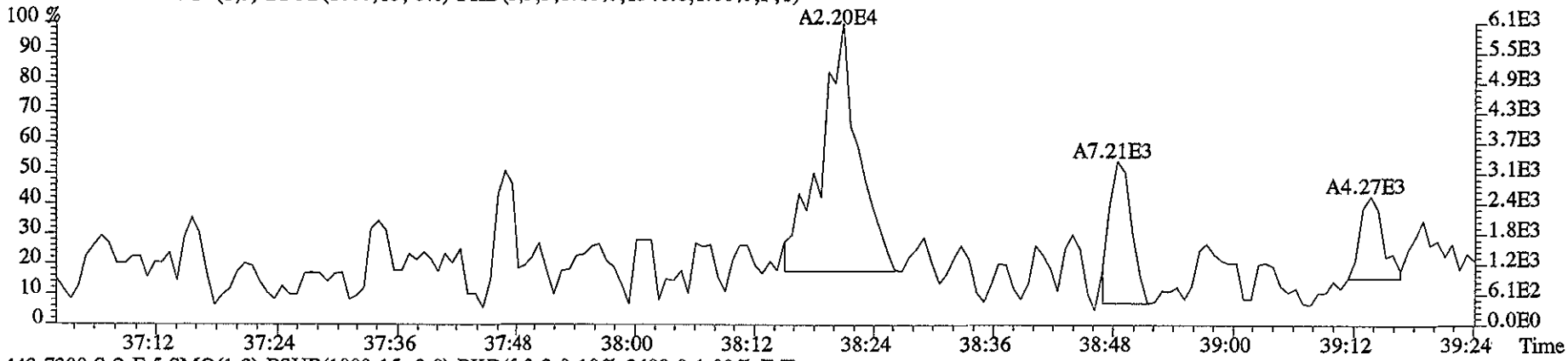
File:07DE104D5 #1-286 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES



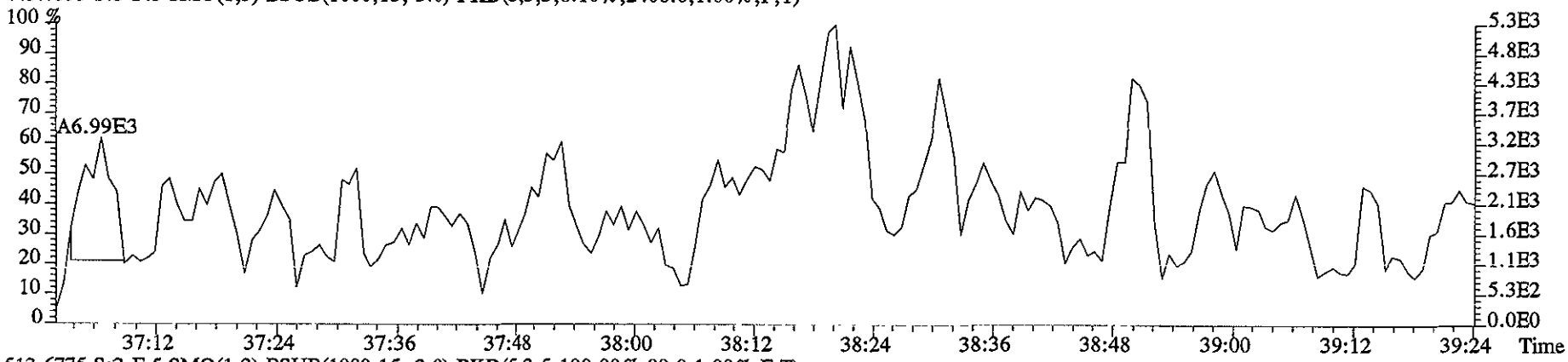

File:07DE104D5 #1-201 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES
407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2092.0,1.00%,F,T)
A4.81E4
409.7789 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1552.0,1.00%,F,T)
A3.15E4
A5.10E3
A1.21E4
A1.86E4
417.8253 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9124.0,1.00%,F,T)
A1.99E7
A1.70E7
419.8220 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14932.0,1.00%,F,T)
A4.52E7
A3.82E7
100 %
80
60
40
20
0
34:24
34:36
34:48
35:00
35:12
35:24
35:36
35:48
36:00
36:12
36:24
36:36
36:48
37:00
Time
1.3E4
1.0E4
7.7E3
5.1E3
2.6E3
0.0E0
8.8E3
7.0E3
5.3E3
3.5E3
1.8E3
0.0E0
5.0E6
4.0E6
3.0E6
2.0E6
1.0E6
0.0E0
1.1E7
9.1E6
6.8E6
4.5E6
2.3E6
0.0E0


File:07DE104D5 #1-201 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES
423.7766 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1752.0,1.00%,F,T)
A8.42E3
A2.66E4
A2.90E4
A1.91E4
A2.83E4
425.7737 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1368.0,1.00%,F,T)
A8.18E3
A2.17E4
A1.95E4
A5.87E3
A6.33E3
435.8169 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7588.0,1.00%,F,T)
A3.06E7
437.8140 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9036.0,1.00%,F,T)
A2.91E7
100 %
80
60
40
20
0
34:24
34:36
34:48
35:00
35:12
35:24
35:36
35:48
36:00
36:12
36:24
36:36
36:48
37:00
Time
8.7E3
7.0E3
5.2E3
3.5E3
1.7E3
0.0E0
7.1E3
5.7E3
4.3E3
2.8E3
1.4E3
6.7E6
5.3E6
4.0E6
2.7E6
1.3E6
6.4E6
5.1E6
3.8E6
2.6E6

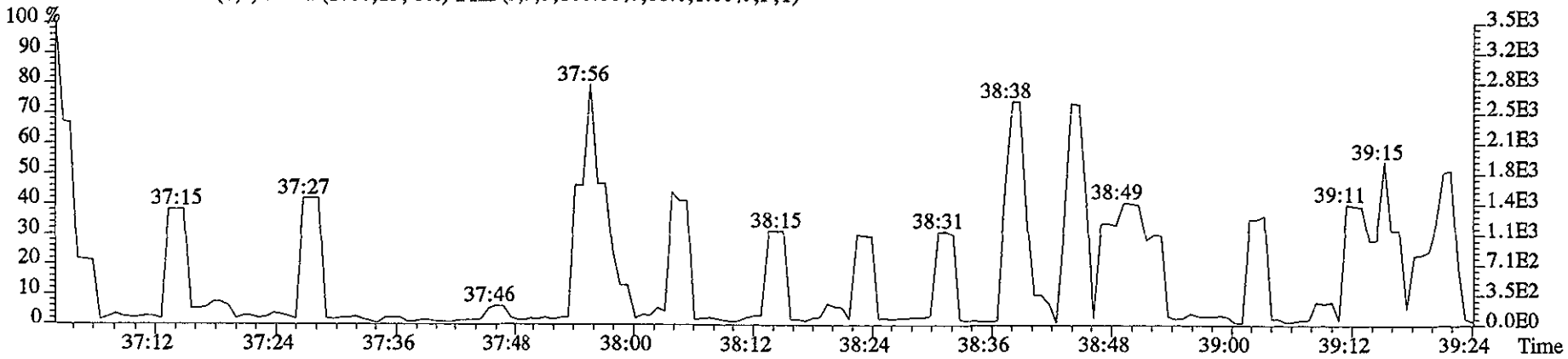
File:07DE104D5 #1-192 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES
441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1340.0,1.00%,F,T)



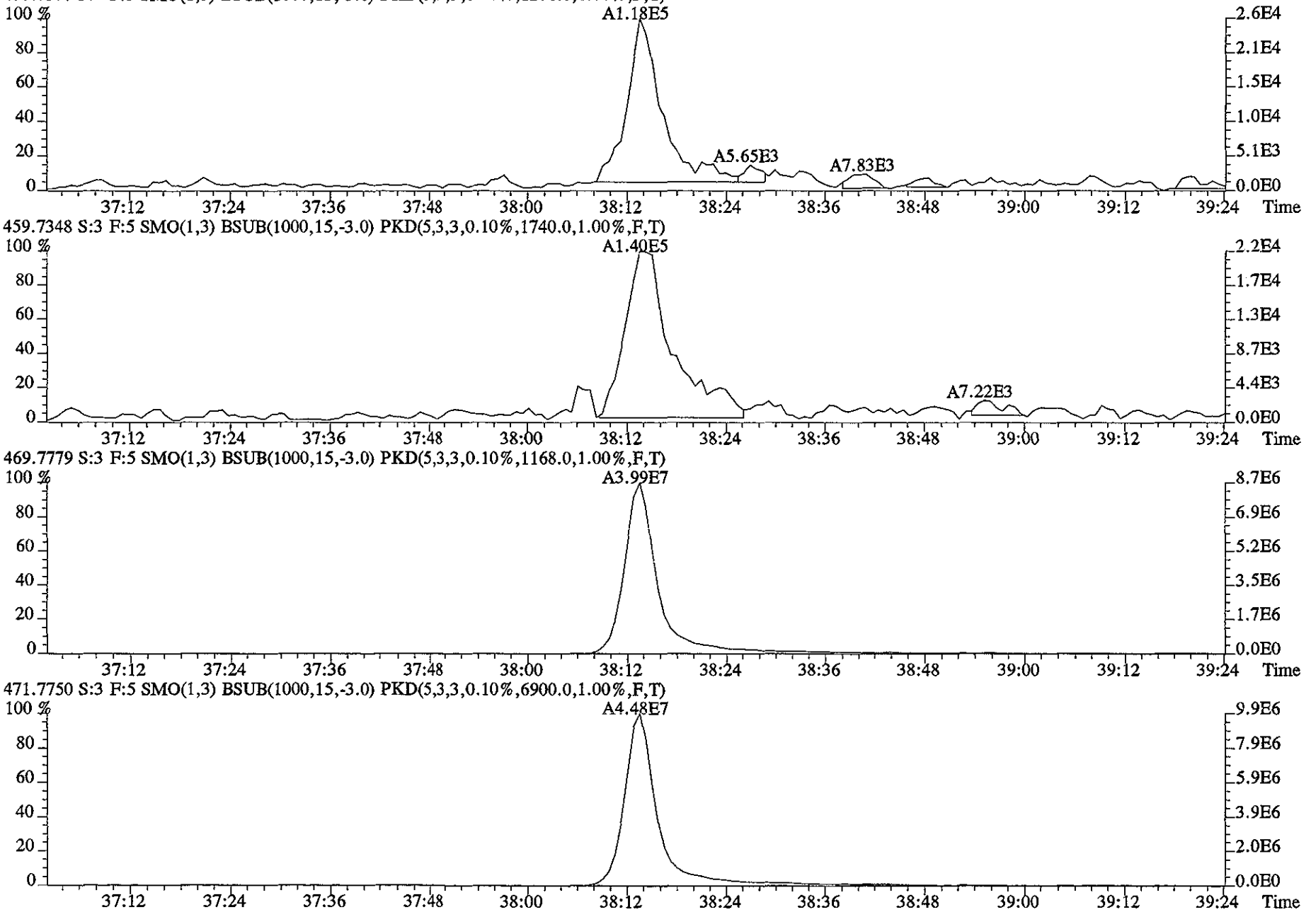
443.7399 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2408.0,1.00%,F,T)



513.6775 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,88.0,1.00%,F,T)

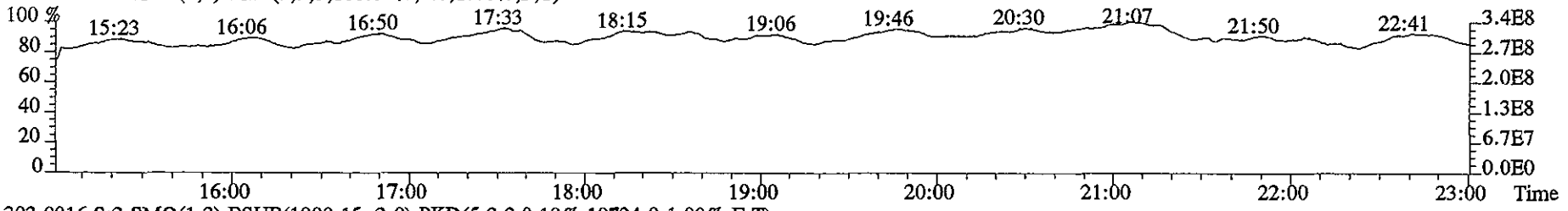


File:07DE104D5 #1-192 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES

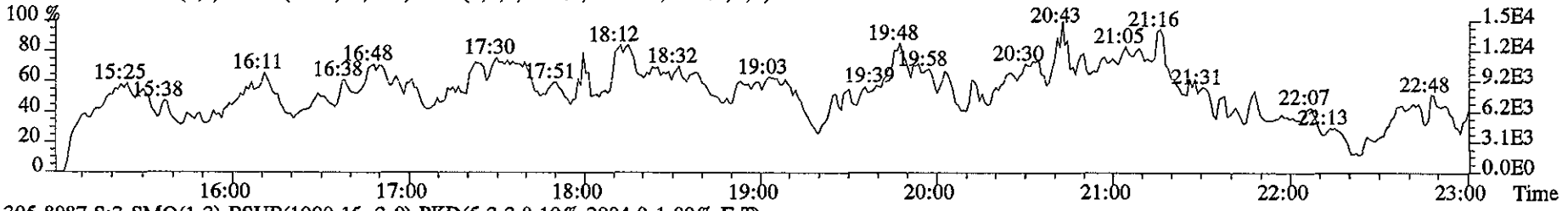


File:07DE104D5 #1-530 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES

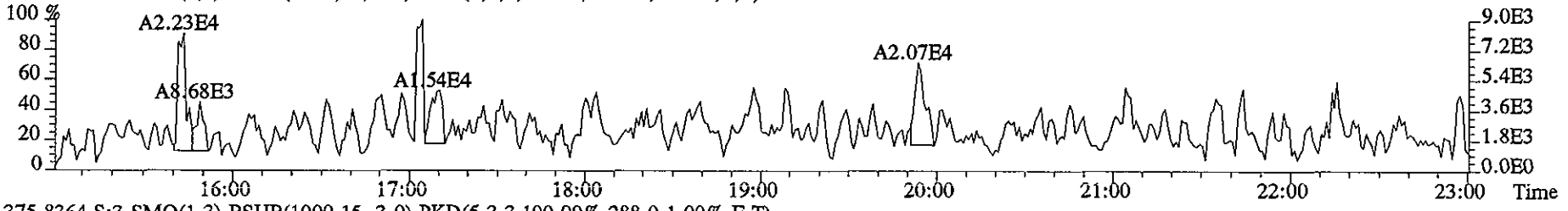
292.9825 S:3 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



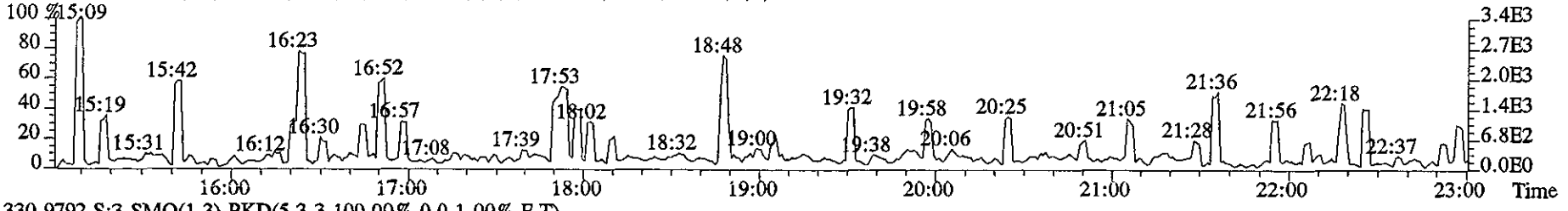
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10724.0,1.00%,F,T)



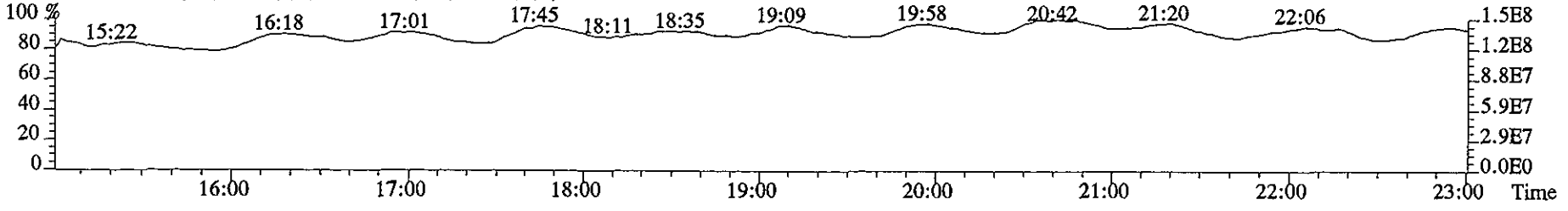
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3004.0,1.00%,F,T)



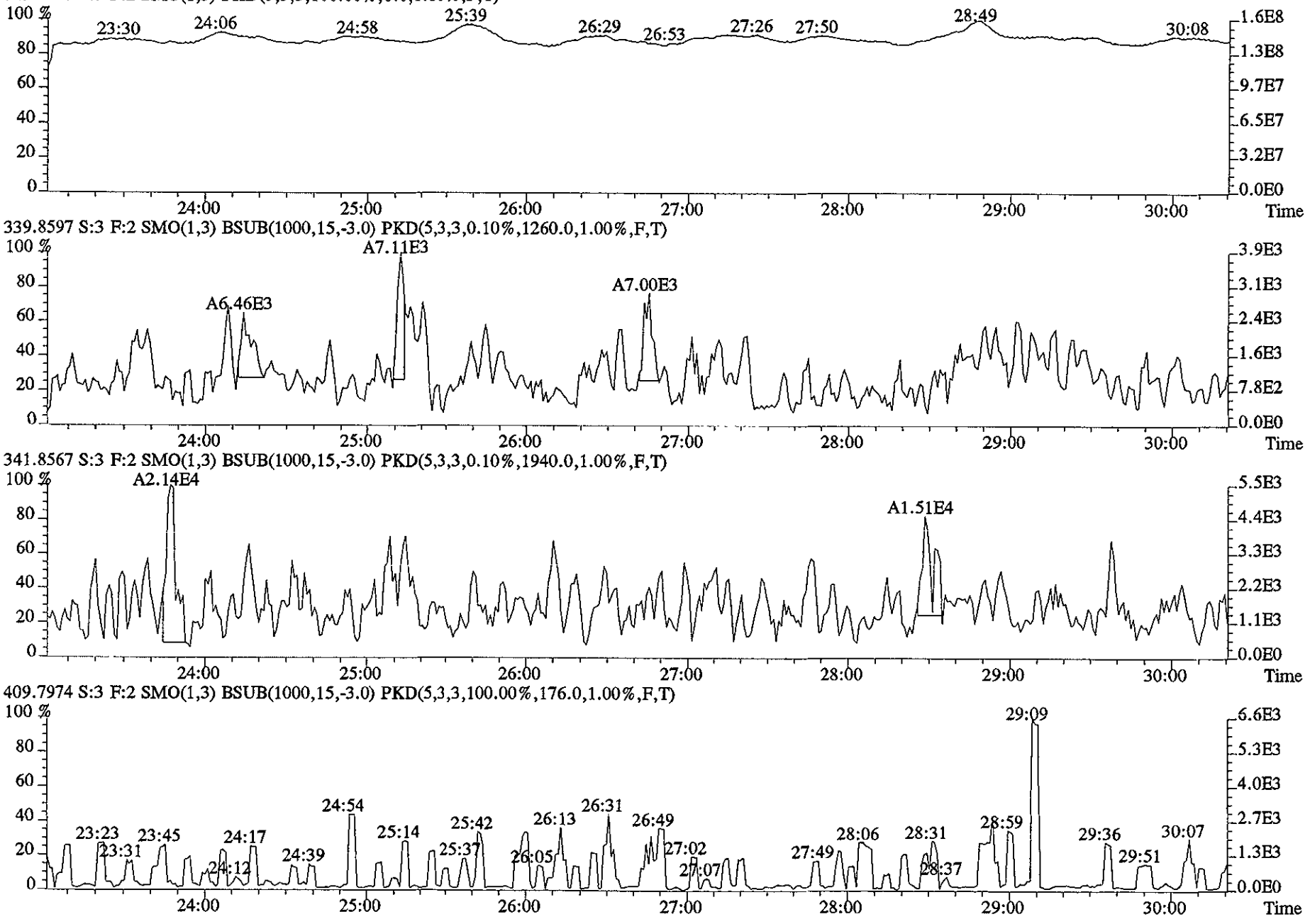
375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,288.0,1.00%,F,T)



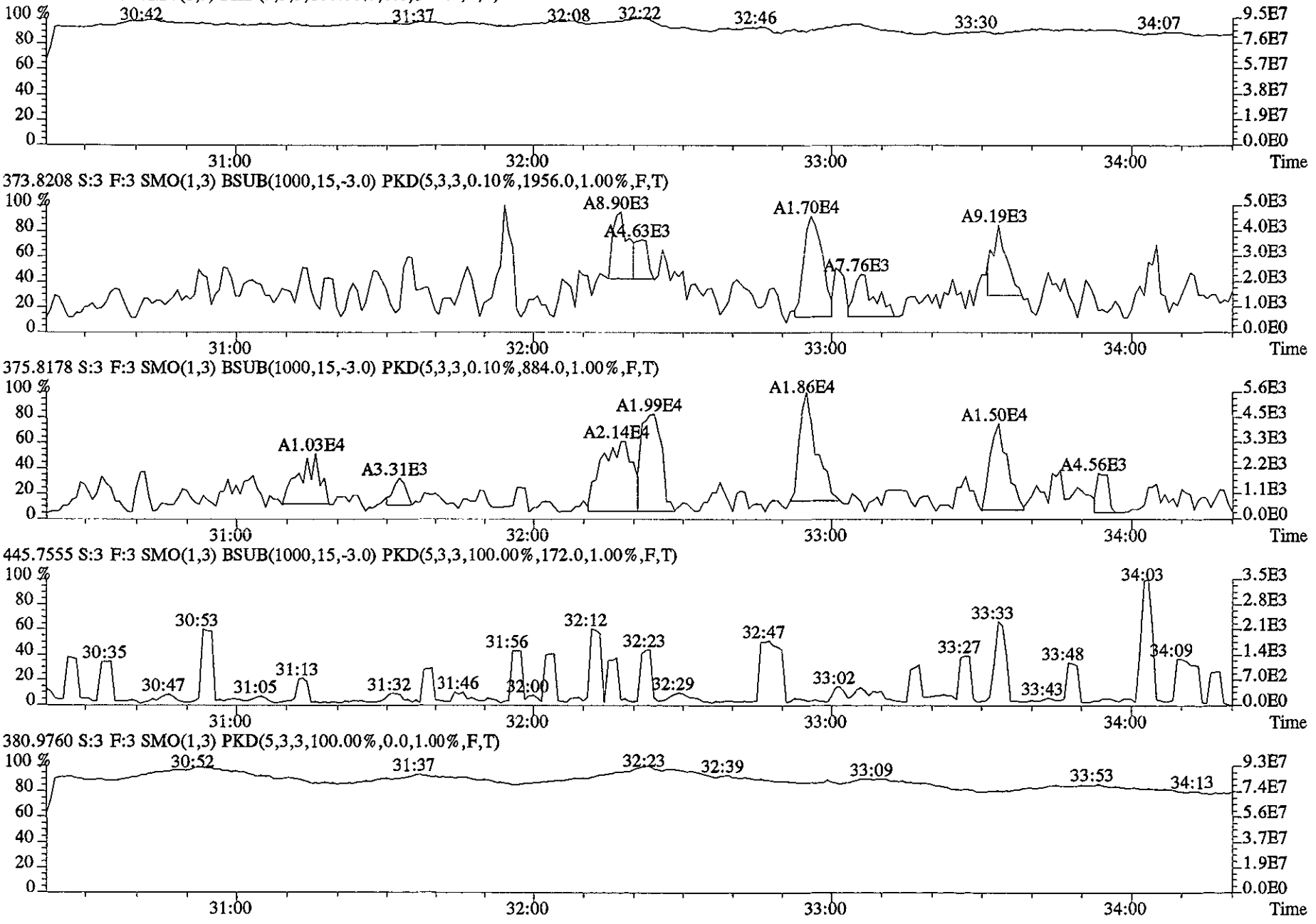
330.9792 S:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



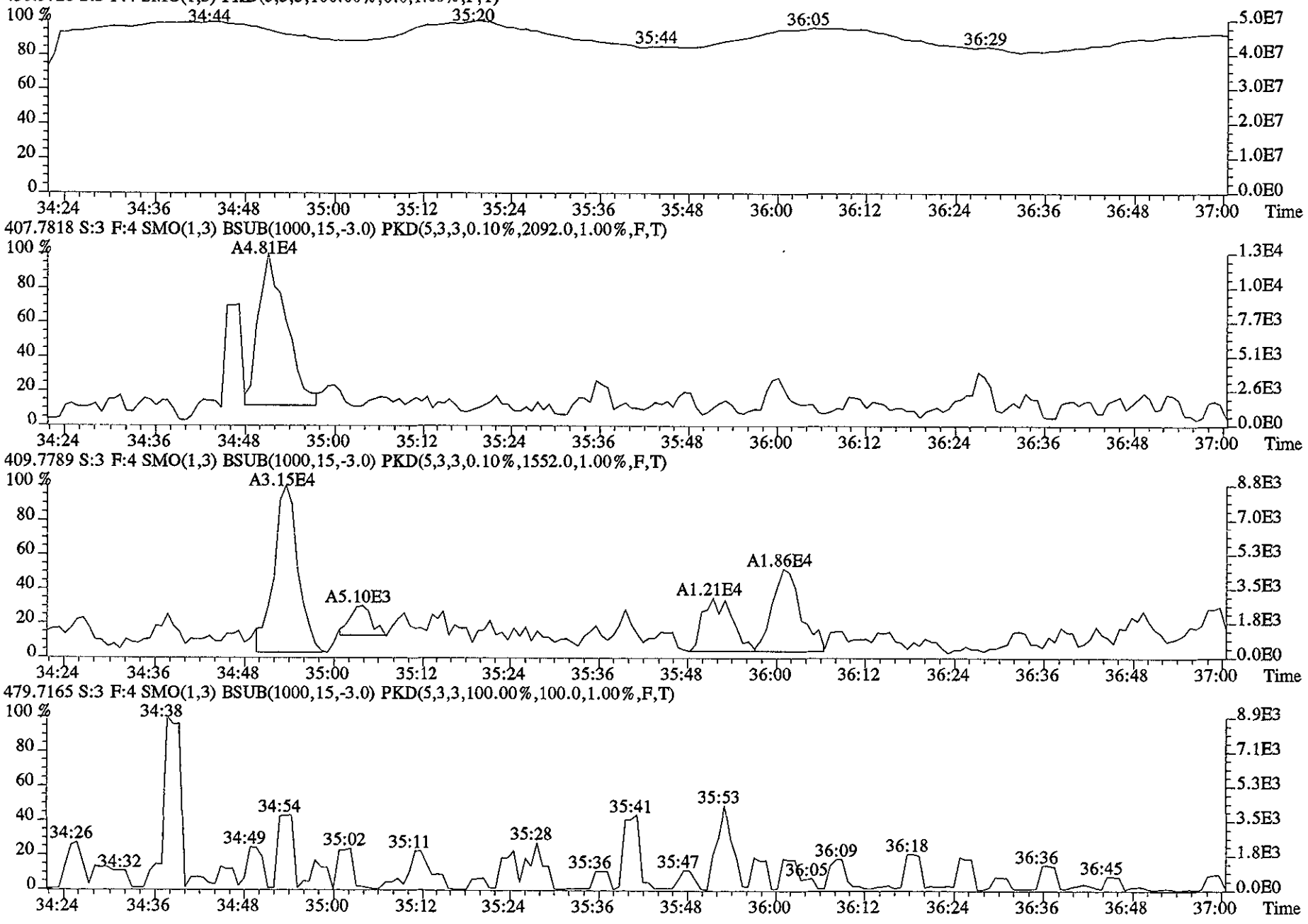
File:07DE104D5 #1-470 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES



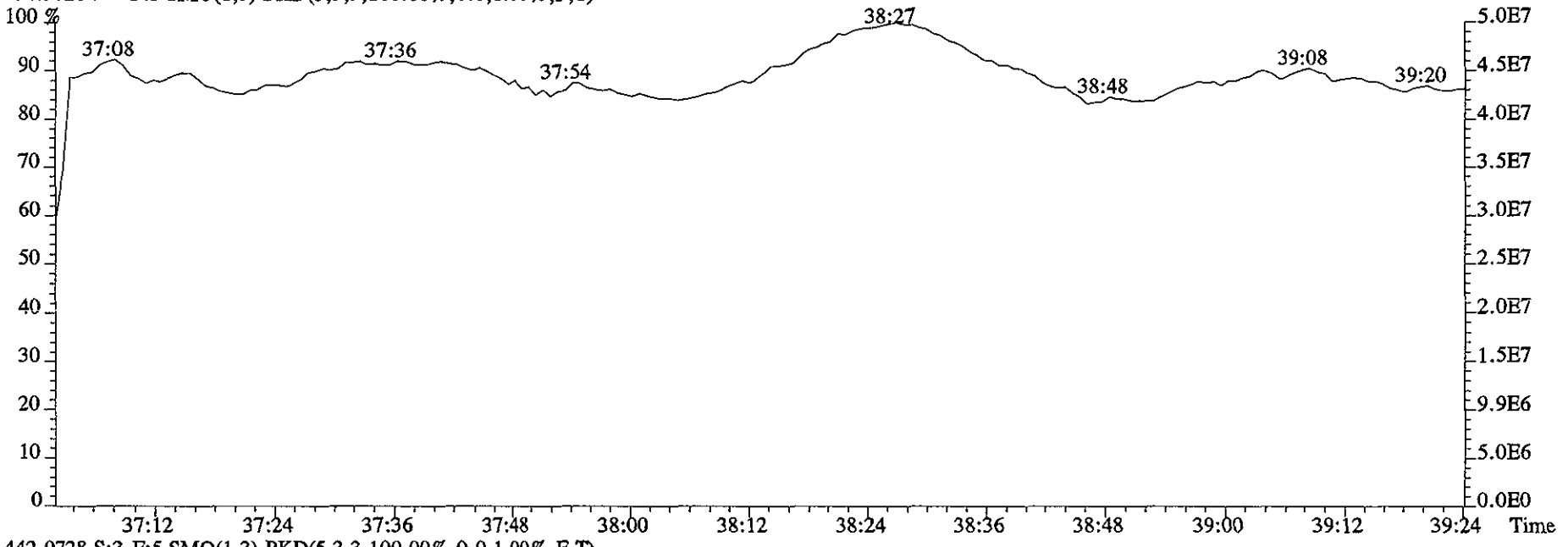
File:07DE104D5 #1-286 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES



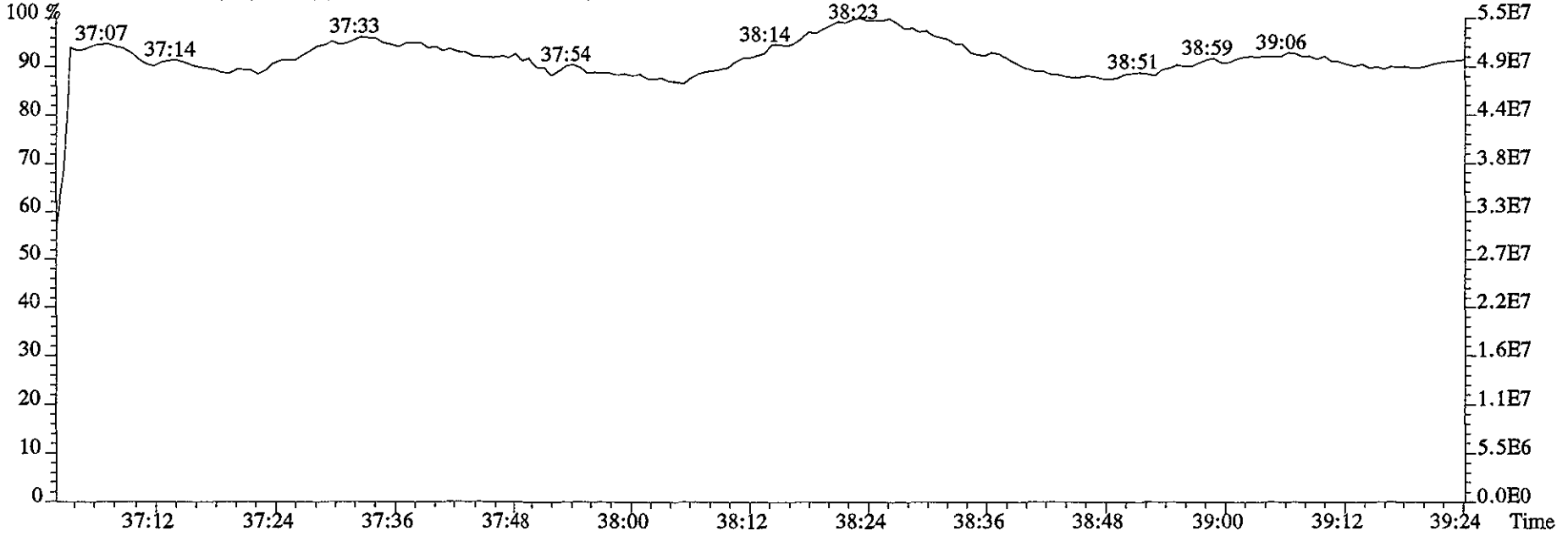
File:07DE104D5 #1-201 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES



File:07DE104D5 #1-192 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES
454.9728 S:3 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



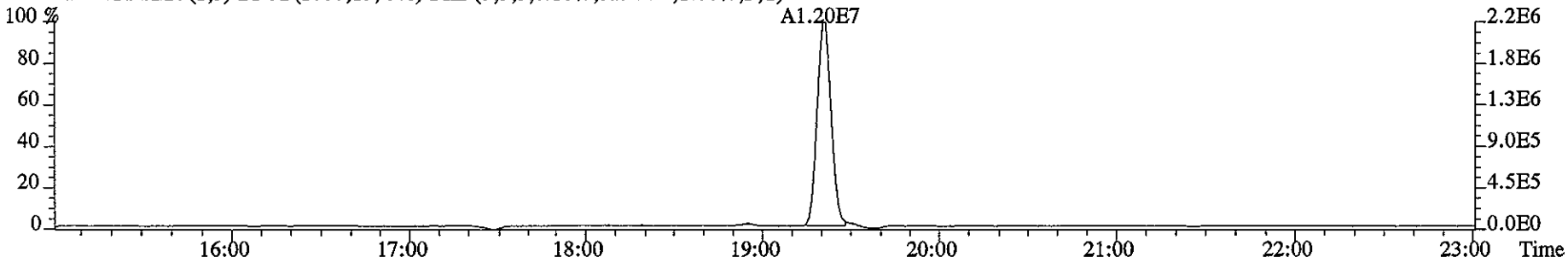
442.9728 S:3 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



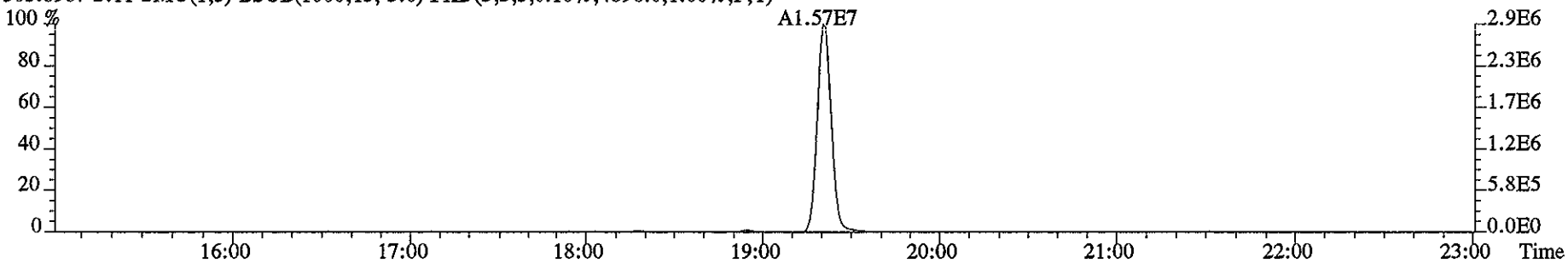
Run text: MAVWM-1-AC Sample text: MAVWM-1-AC :G0L020446-1LCS
Run #9 Filename: 07DE104D5 S: 11 I: 1 Results: 07DE104D5TO9
Acquired: 7-DEC-10 18:05:23 Processed: 8-DEC-10 07:53:18
Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000SAMP 12/8/10 mar

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	220776888	0.80	y	19:58	-	132.21	-	-	n
13C-2,3,7,8-TCDF	266905008	0.80	y	19:20	1.23	3933.60	2.94	98.3	n
2,3,7,8-TCDF	27674085	0.77	y	19:21	0.99	417.03	13.49	-	n
Total TCDF	27674085	0.77	y	19:21	0.99	417.03	13.49	-	n
13C-2,3,7,8-TCDD	202024984	0.81	y	20:09	0.91	4044.23	13.03	101.1	n
2,3,7,8-TCDD	21524076	0.79	y	20:11	0.98	433.33	1.73	-	n
Total TCDD	21567886	4.34	n	19:20	0.98	434.21	1.73	-	n
37Cl-2,3,7,8-TCDD	212326	1.00	y	20:10	1.33	3.17	0.49	0.2	n
13C-1,2,3,7,8-PeCDF	227246136	1.57	y	25:12	0.88	4699.74	6.34	117.5	n
1,2,3,7,8-PeCDF	126940572	1.56	y	25:13	1.08	2075.37	3.25	-	n
2,3,4,7,8-PeCDF	120299288	1.57	y	26:46	1.05	2025.19	3.34	-	n
Total F2 PeCDF	249811710	1.95	n	23:36	1.06	4143.22	3.29	-	n
Total F1 PeCDF	*	*	n	NotFnd	1.06	*	1.98	-	n
13C-1,2,3,7,8-PeCDD	160418276	1.61	y	27:35	0.66	4398.19	3.93	110.0	n
1,2,3,7,8-PeCDD	83511182	1.53	y	27:37	0.93	2250.05	4.32	-	n
Total PeCDD	83511182	1.53	y	27:37	0.93	2250.05	4.32	-	n
13C-1,2,3,7,8,9-HxCDD	171502496	1.27	y	33:22	- 12/8/10 MG	144.85	-	-	n
13C-1,2,3,4,7,8-HxCDF	159555412	0.51	y	32:15	1.04	3561.83	1.22	89.0	n
1,2,3,4,7,8-HxCDF	106186508	1.22	y	32:17	1.22	2186.97	0.77	-	n
1,2,3,6,7,8-HxCDF	120852580	1.11	y	32:23	~~1.28~~ 1.55	~~2263.97~~ 1952.182	0.73	-	n
2,3,4,6,7,8-HxCDF	110398108	1.13	y	32:54	1.23	2243.88	0.76	-	n
1,2,3,7,8,9-HxCDF	97626736	1.16	y	33:32	1.10	2228.69	0.85	-	n
Total HxCDF	435216821	0.88	n	31:13	1.21	9026.68	0.77	-	n
13C-1,2,3,6,7,8-HxCDD	141045740	1.28	y	33:07	0.83	3959.66	1.60	99.0	n
1,2,3,4,7,8-HxCDD	68963676	1.23	y	33:03	1.04	1885.66	1.30	-	n
1,2,3,6,7,8-HxCDD	91762548	1.29	y	33:07	1.16	2238.02	1.16	-	n
1,2,3,7,8,9-HxCDD	88801804	1.25	y	33:22	1.18	2131.12	1.14	-	n
Total HxCDD	249528028	1.23	y	33:03	1.13	6254.80	1.20	-	n
13C-1,2,3,4,6,7,8-HpCDF	135358240	0.45	y	34:51	0.91	3469.14	13.93	86.7	n
1,2,3,4,6,7,8-HpCDF	101879392	1.07	y	34:52	1.35	2237.12	5.22	-	n
1,2,3,4,7,8,9-HpCDF	88064452	1.07	y	36:00	1.09	2380.02	6.42	-	n
Total HpCDF	189943844	1.07	y	34:52	1.22	4617.14	5.76	-	n
13C-1,2,3,4,6,7,8-HpCDD	128779372	1.06	y	35:40	0.83	3633.60	6.91	90.8	n
1,2,3,4,6,7,8-HpCDD	70757112	1.02	y	35:40	1.07	2050.75	5.04	-	n
Total HpCDD	70997471	0.89	y	35:07	1.07	2057.71	5.04	-	n
13C-OCDD	204124856	0.91	y	38:13	0.62	7680.07	13.70	96.0	n
OCDF	147913288	0.92	y	38:20	1.37	4230.45	9.09	-	n
OCDD	124276652	0.90	y	38:13	1.20	4061.15	13.90	-	n

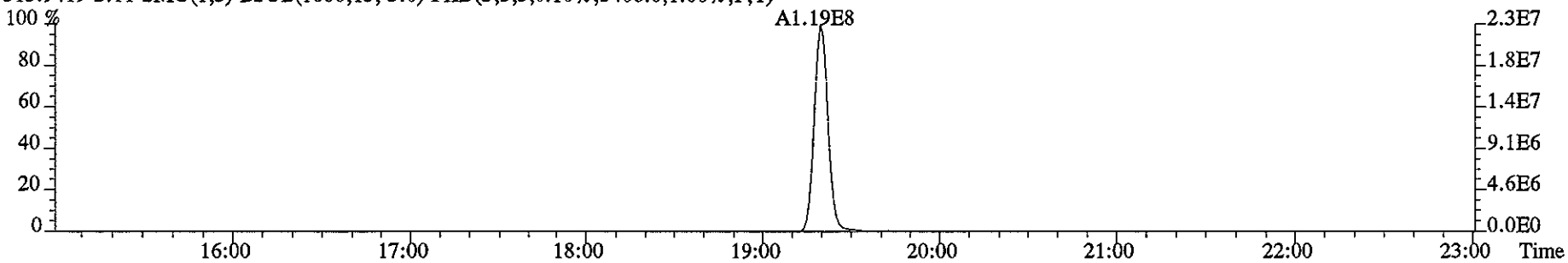
File:07DE104D5 #1-530 Acq: 7-DEC-2010 18:05:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MAVWM-1-AC :G0L020446-1LCS Exp:DIOXINRES
303.9016 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,52264.0,1.00%,F,T)



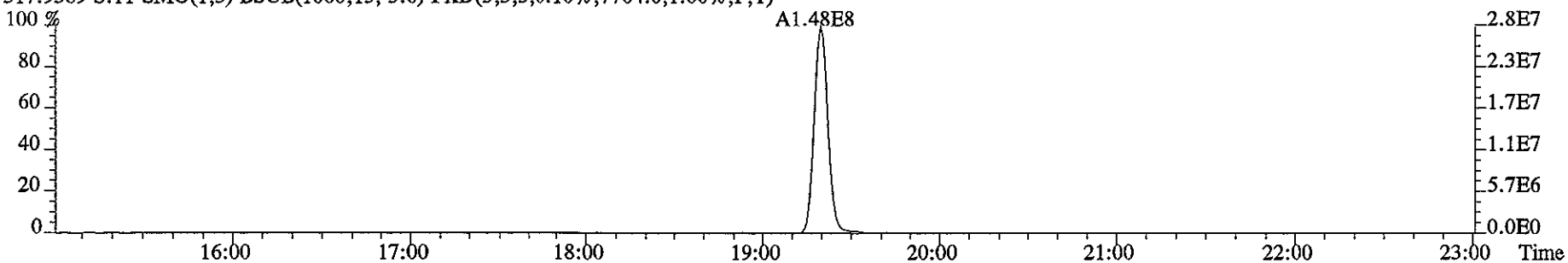
305.8987 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4896.0,1.00%,F,T)



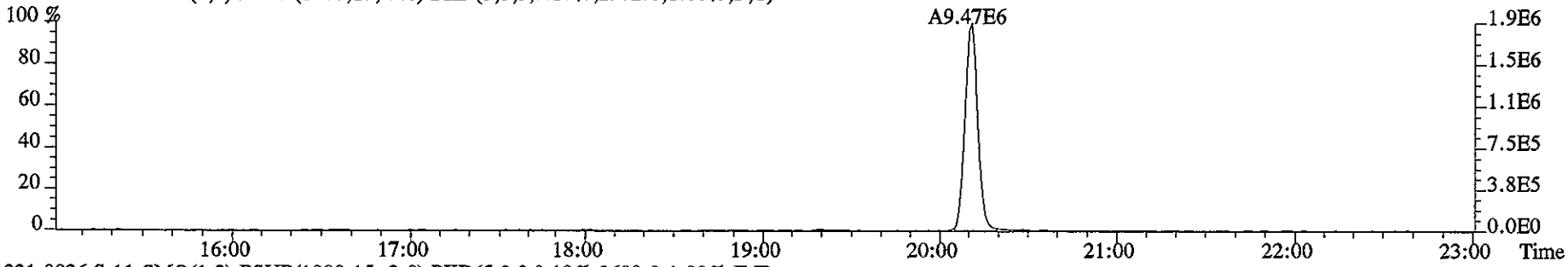
315.9419 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5408.0,1.00%,F,T)



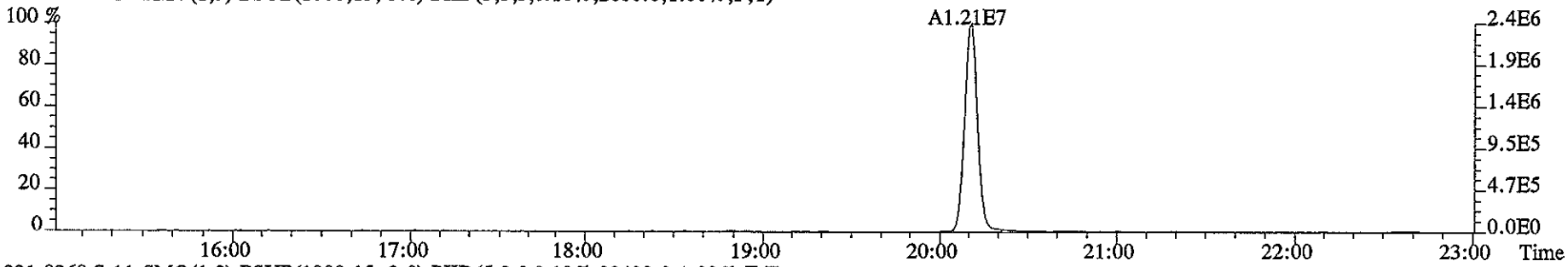
317.9389 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7704.0,1.00%,F,T)



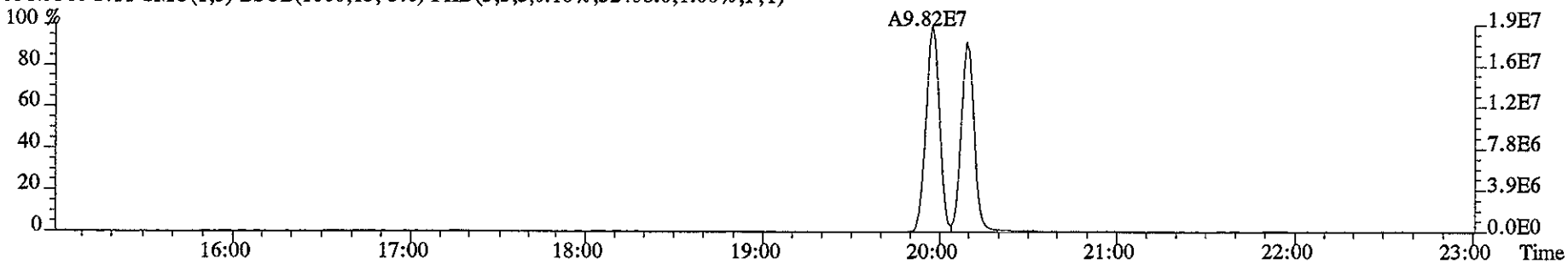
File:07DE104D5 #1-530 Acq: 7-DEC-2010 18:05:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MAVWM-1-AC :G0L020446-1LCS Exp:DIOXINRES
319.8965 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2972.0,1.00%,F,T)



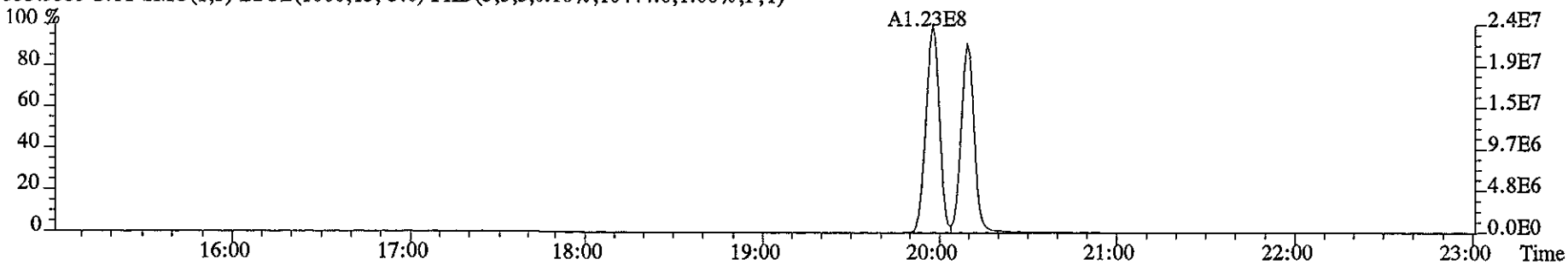
321.8936 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2680.0,1.00%,F,T)



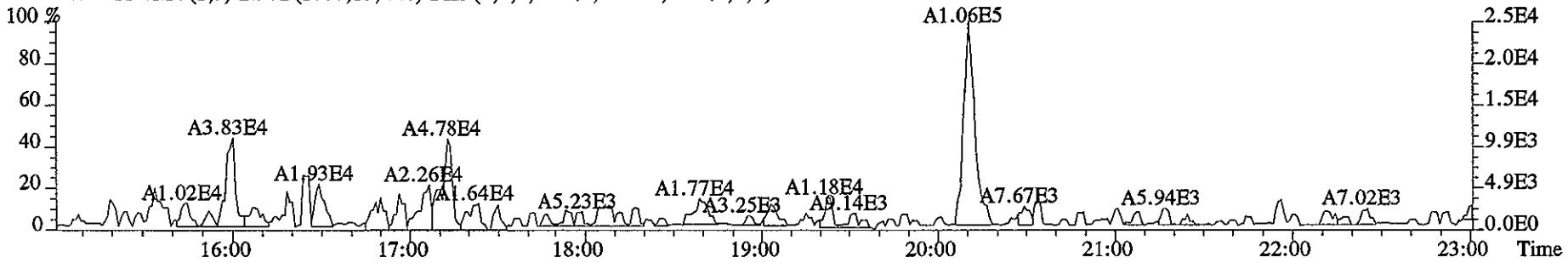
331.9368 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,32408.0,1.00%,F,T)



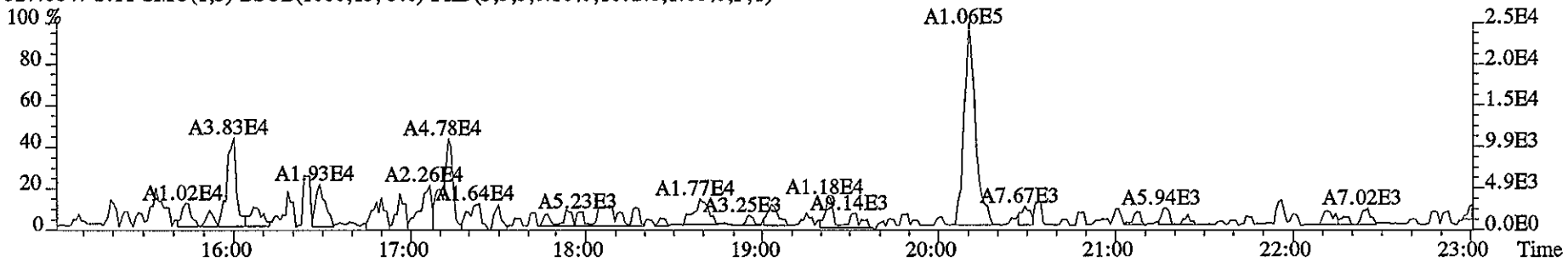
333.9339 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10444.0,1.00%,F,T)



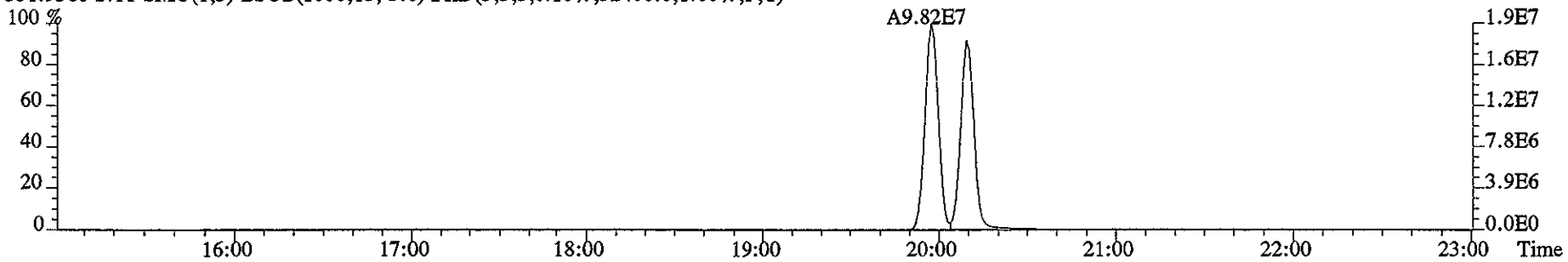
File:07DE104D5 #1-530 Acq: 7-DEC-2010 18:05:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MAVWM-1-AC :G0L020446-1LCS Exp:DIOXINRES
327.8847 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1072.0,1.00%,F,T)



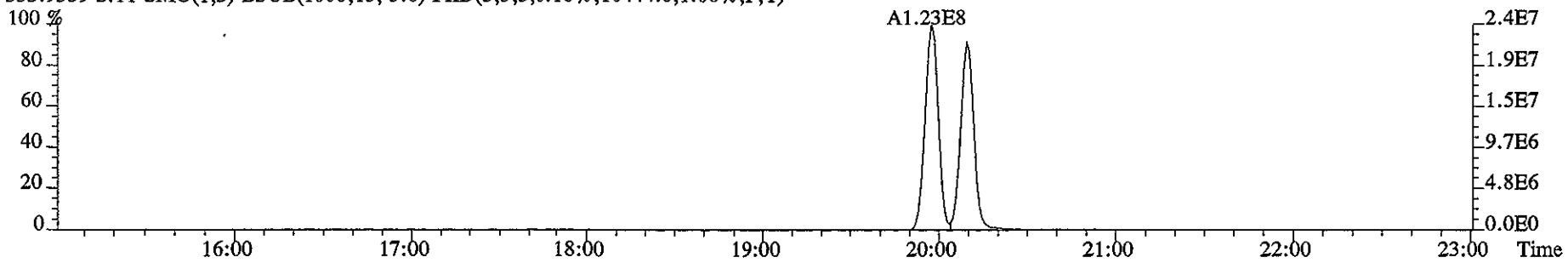
327.8847 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1072.0,1.00%,F,T)



331.9368 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,32408.0,1.00%,F,T)

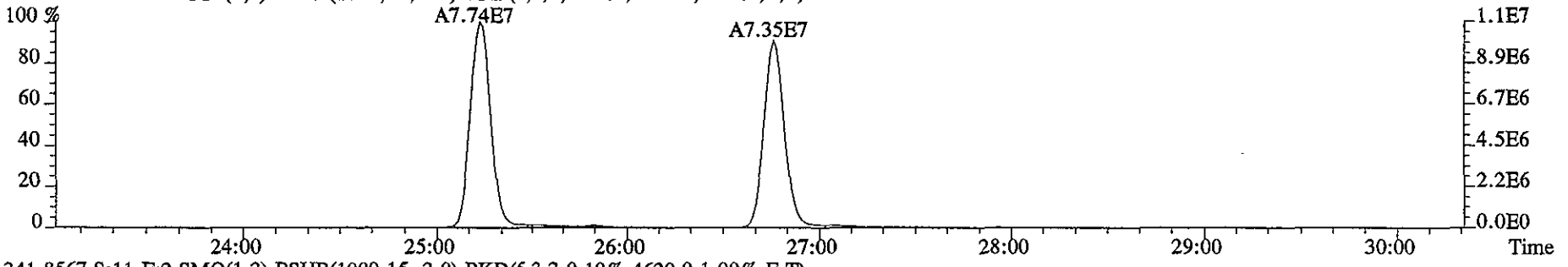


333.9339 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10444.0,1.00%,F,T)

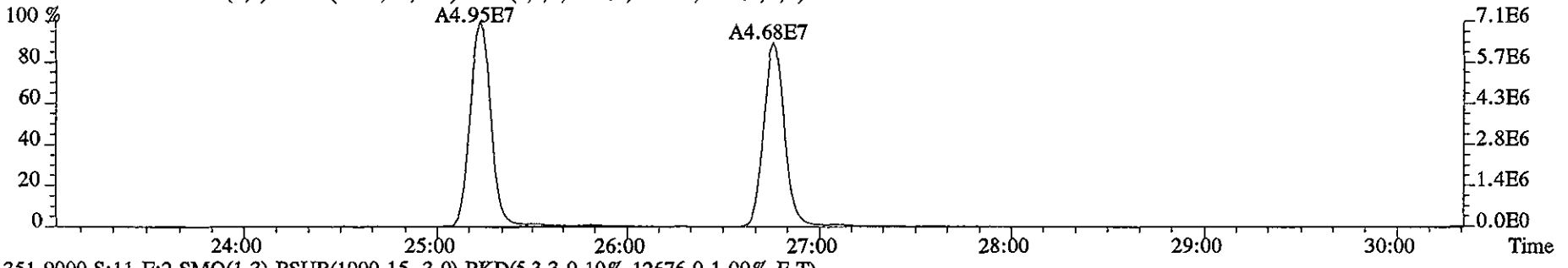


File:07DE104D5 #1-470 Acq: 7-DEC-2010 18:05:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MAVWM-1-AC :G0L020446-1LCS Exp:DIOXINRES

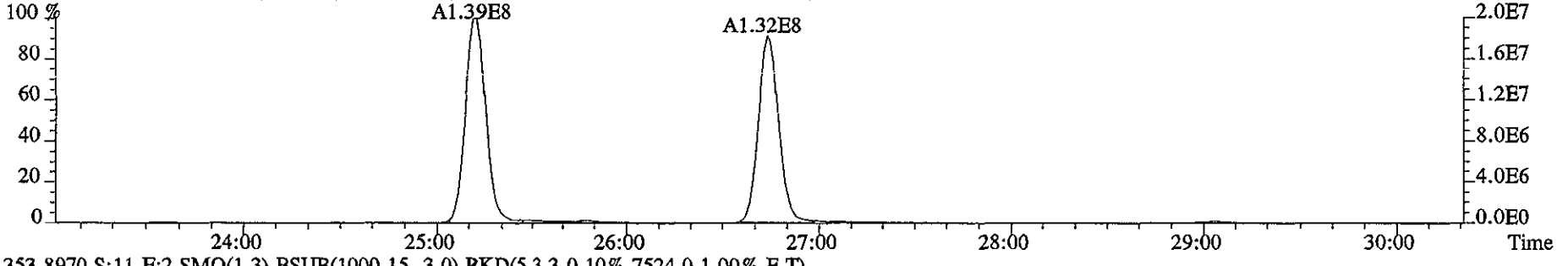
339.8597 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4896.0,1.00%,F,T)



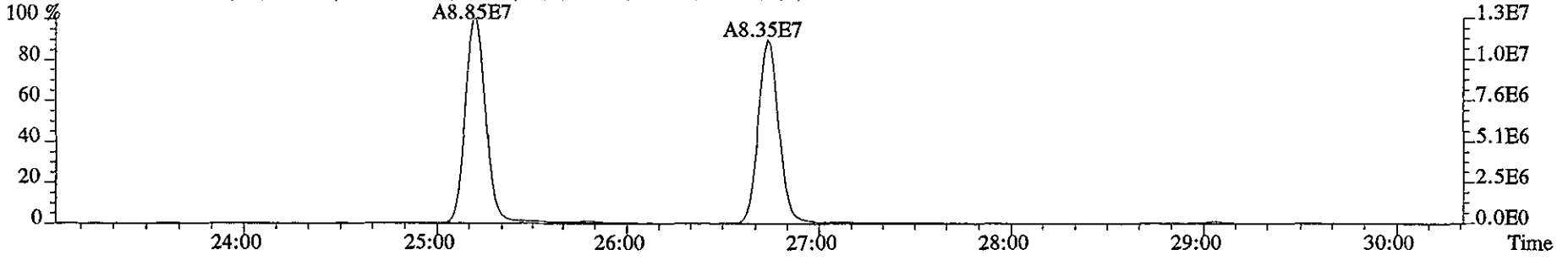
341.8567 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4620.0,1.00%,F,T)



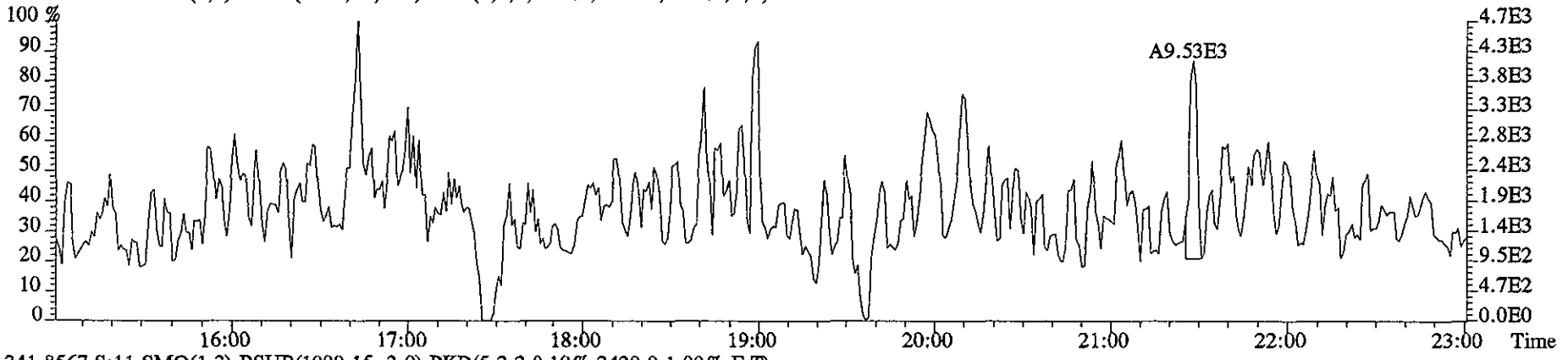
351.9000 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12676.0,1.00%,F,T)



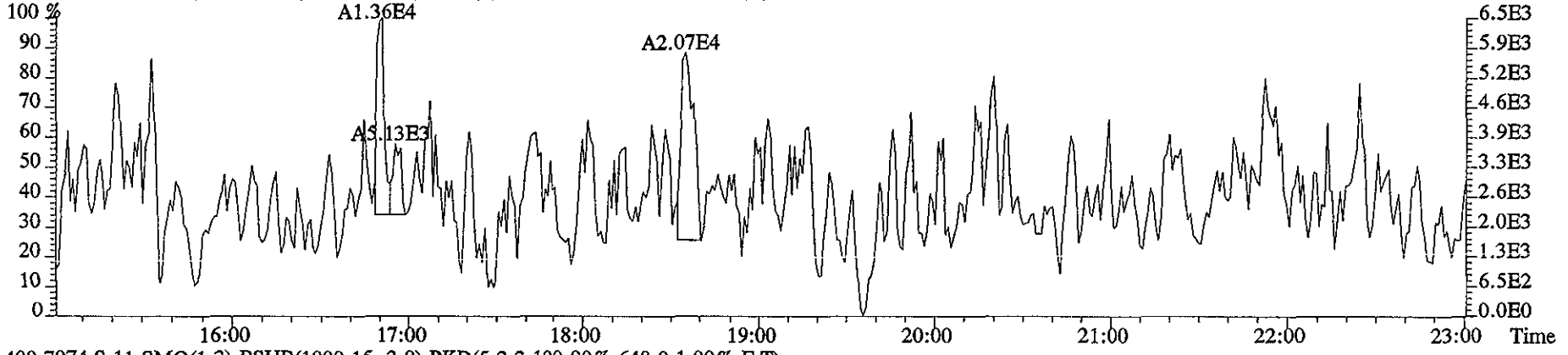
353.8970 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7524.0,1.00%,F,T)



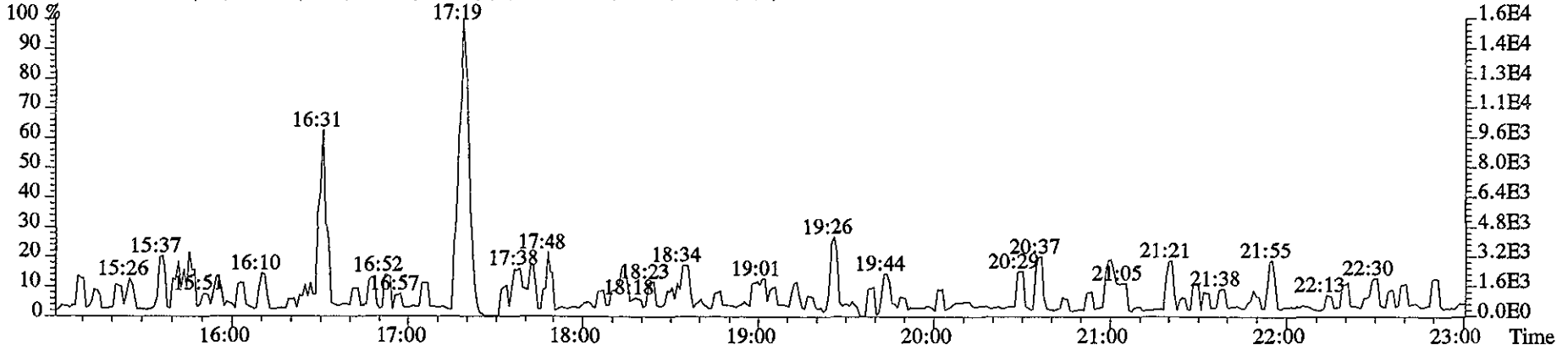
File:07DE104D5 #1-530 Acq: 7-DEC-2010 18:05:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MAVWM-1-AC :G0L020446-1LCS Exp:DIOXINRES
339.8597 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2296.0,1.00%,F,T)



341.8567 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3420.0,1.00%,F,T)

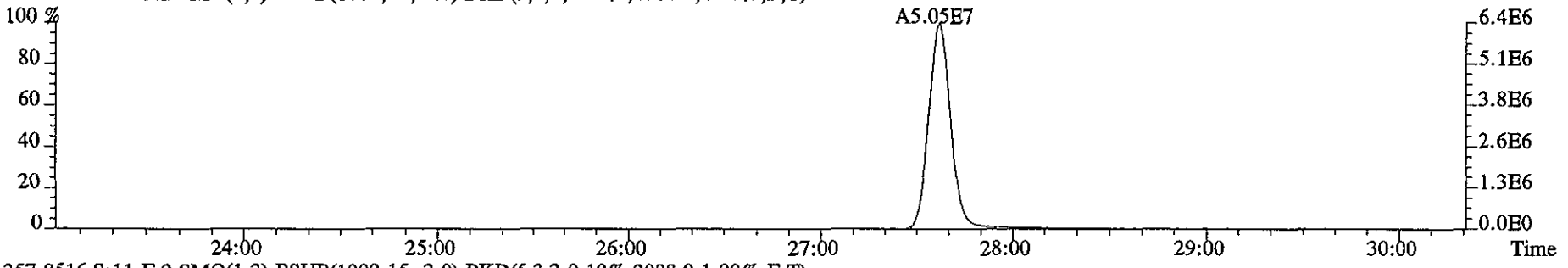


409.7974 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,648.0,1.00%,F,T)

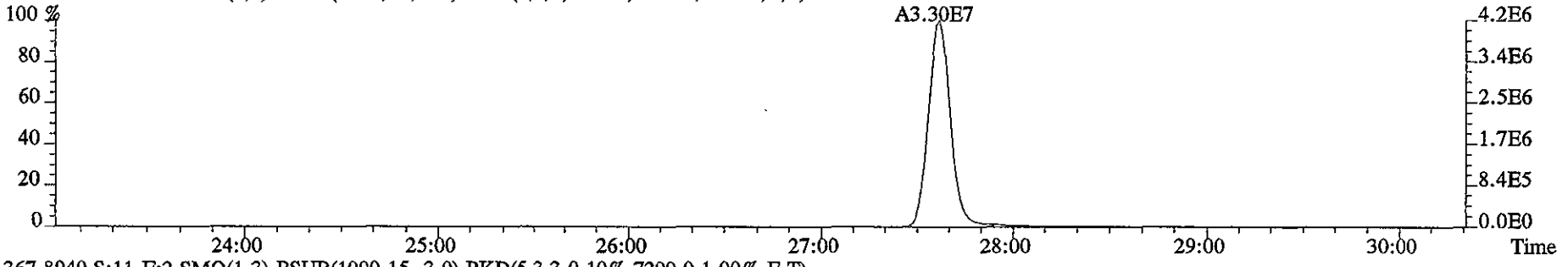


File:07DE104D5 #1-470 Acq: 7-DEC-2010 18:05:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MAVWM-1-AC :G0L020446-1LCS Exp:DIOXINRES

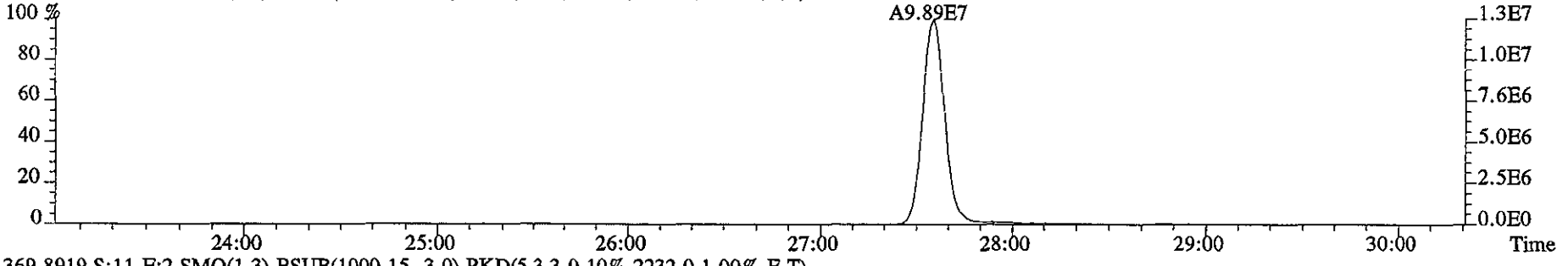
355.8546 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4764.0,1.00%,F,T)



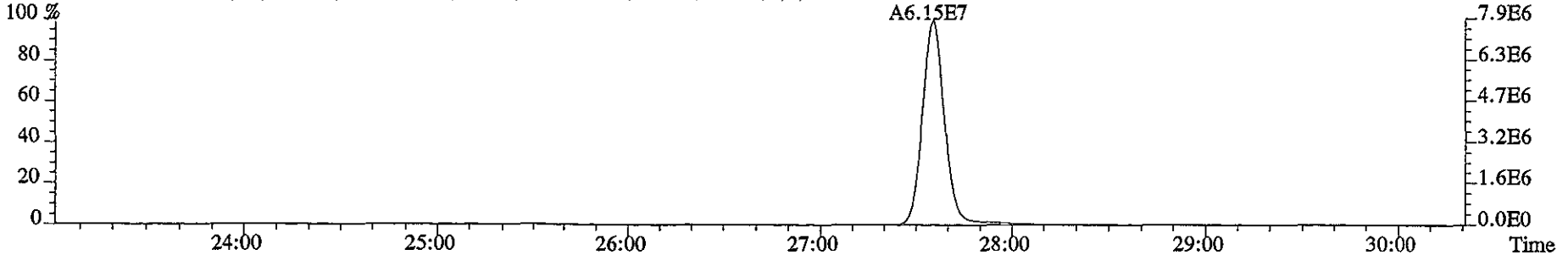
357.8516 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2088.0,1.00%,F,T)



367.8949 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7200.0,1.00%,F,T)

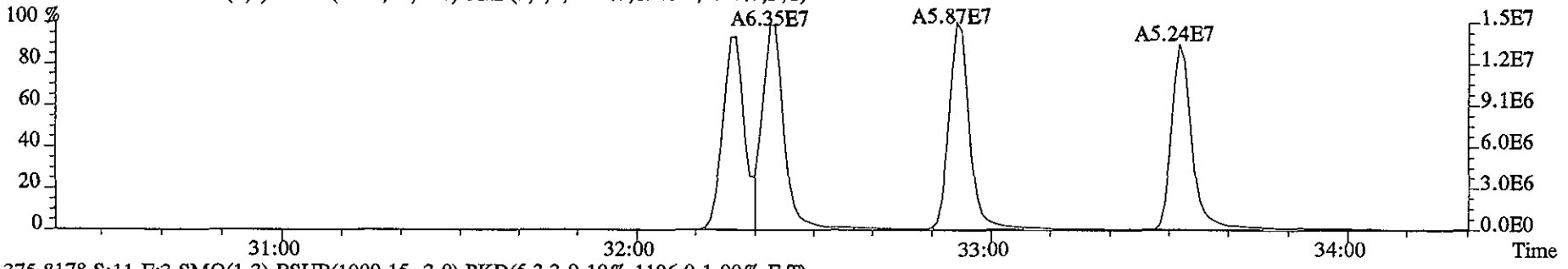


369.8919 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2232.0,1.00%,F,T)

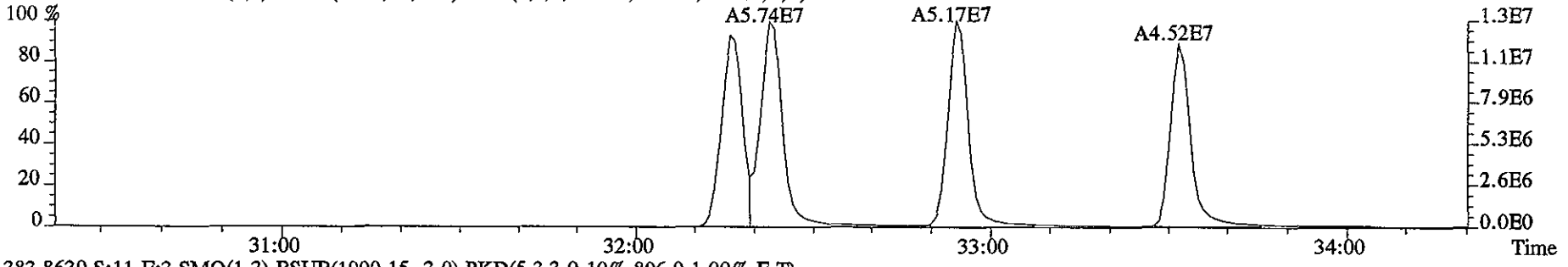


File:07DE104D5 #1-286 Acq: 7-DEC-2010 18:05:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MAVWM-1-AC :G0L020446-1LCS Exp:DIOXINRES

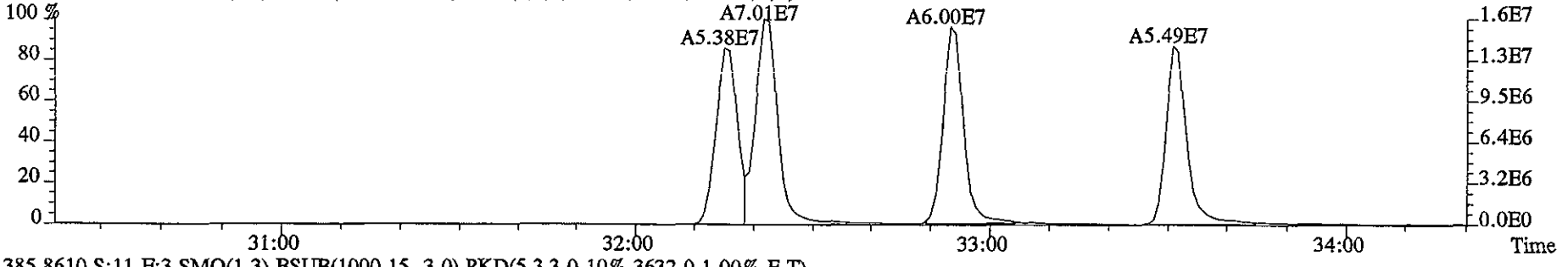
373.8208 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1940.0,1.00%,F,T)



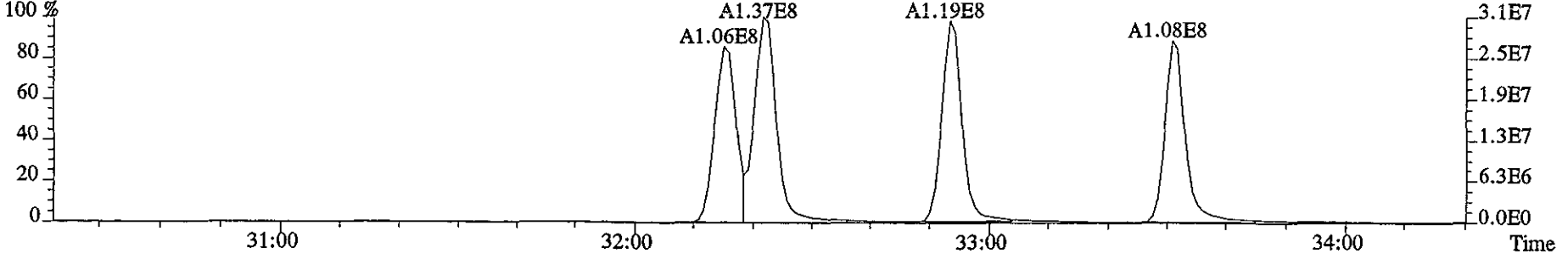
375.8178 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1196.0,1.00%,F,T)



383.8639 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,896.0,1.00%,F,T)

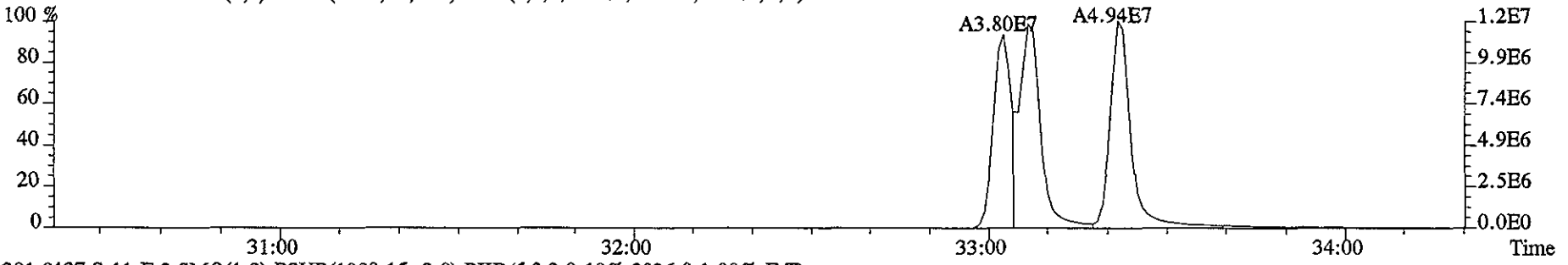


385.8610 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3632.0,1.00%,F,T)

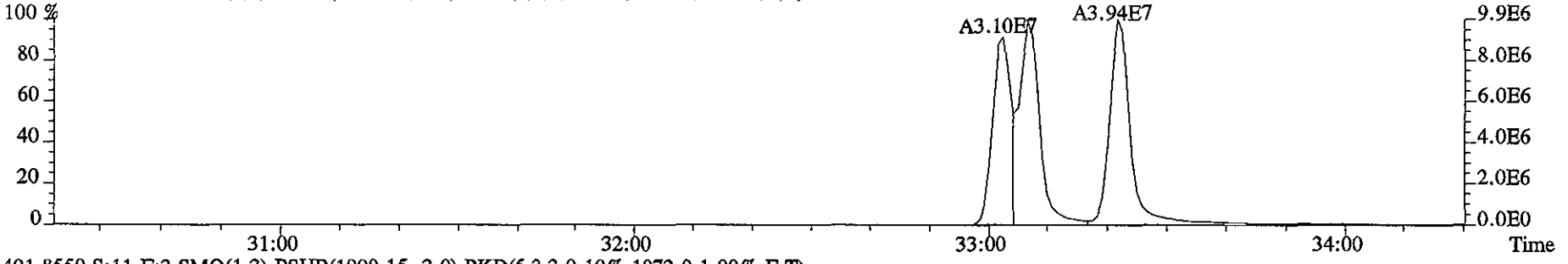


File:07DE104D5 #1-286 Acq: 7-DEC-2010 18:05:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MAVWM-1-AC :G0L020446-1LCS Exp:DIOXINRES

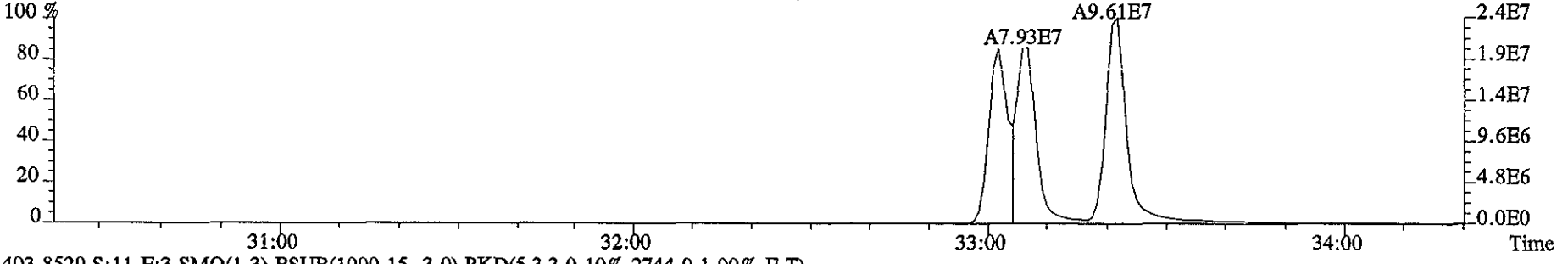
389.8157 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1176.0,1.00%,F,T)



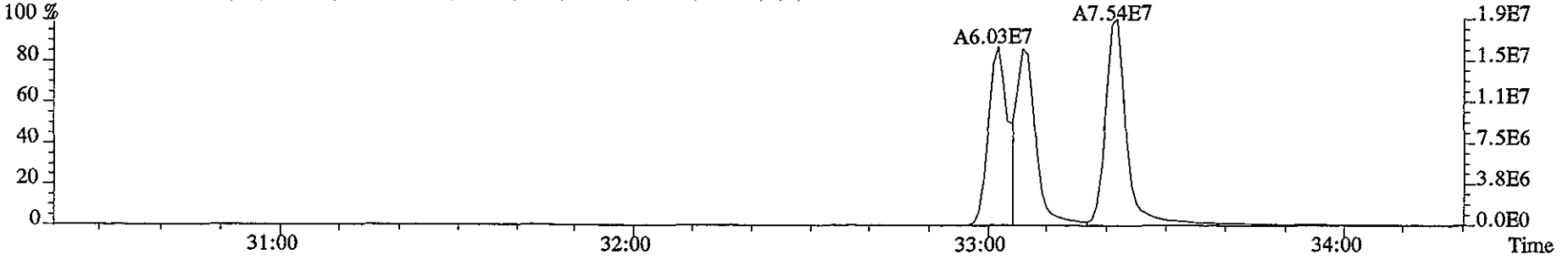
391.8127 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2936.0,1.00%,F,T)



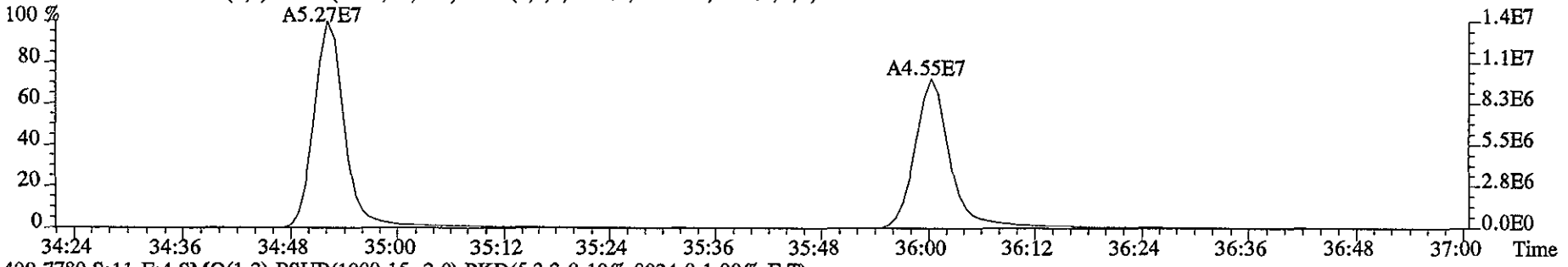
401.8559 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1972.0,1.00%,F,T)



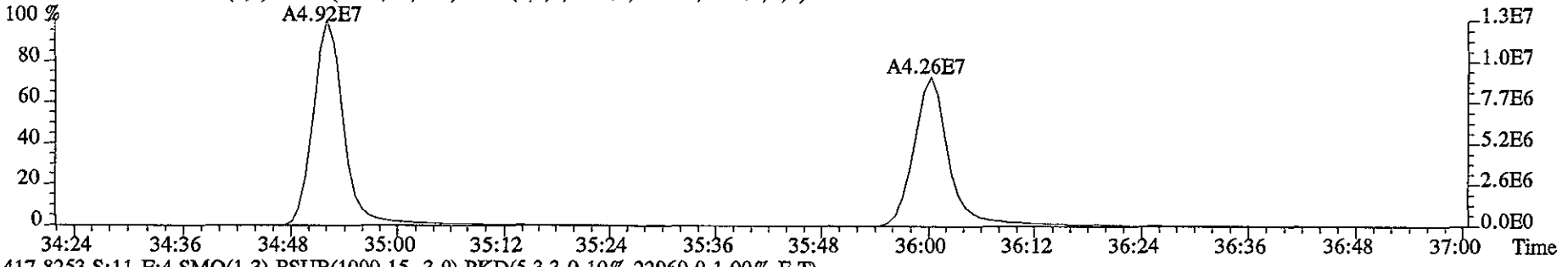
403.8529 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2744.0,1.00%,F,T)



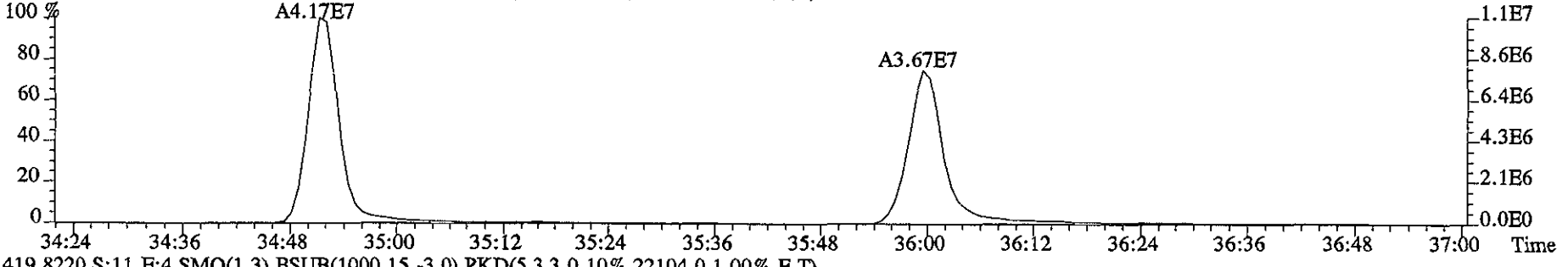
File:07DE104D5 #1-201 Acq: 7-DEC-2010 18:05:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MAVWM-1-AC :G0L020446-1LCS Exp:DIOXINRES
407.7818 S:11 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11480.0,1.00%,F,T)



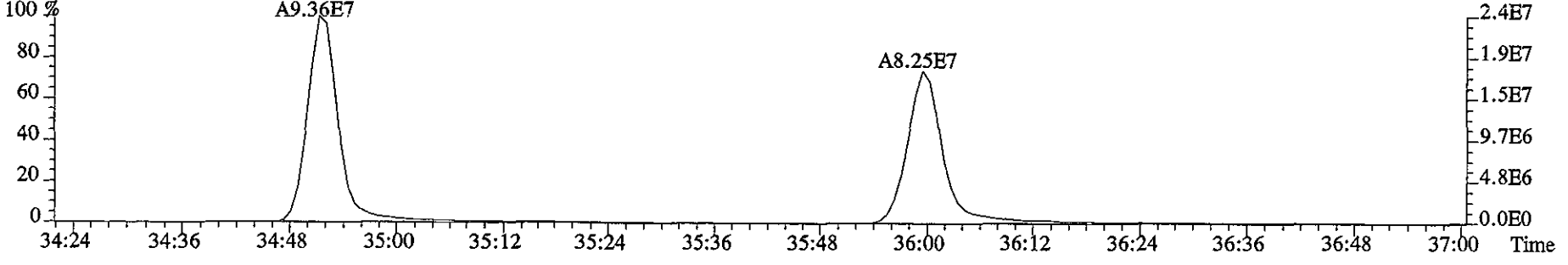
409.7789 S:11 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8924.0,1.00%,F,T)



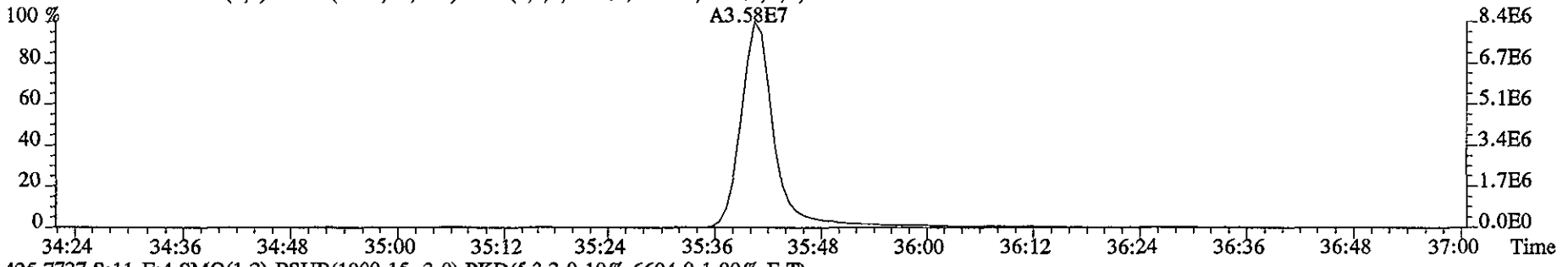
417.8253 S:11 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22960.0,1.00%,F,T)



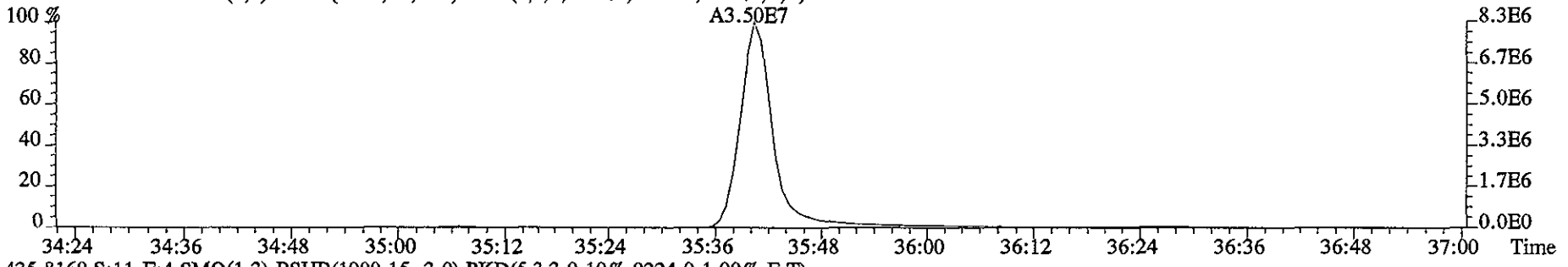
419.8220 S:11 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22104.0,1.00%,F,T)



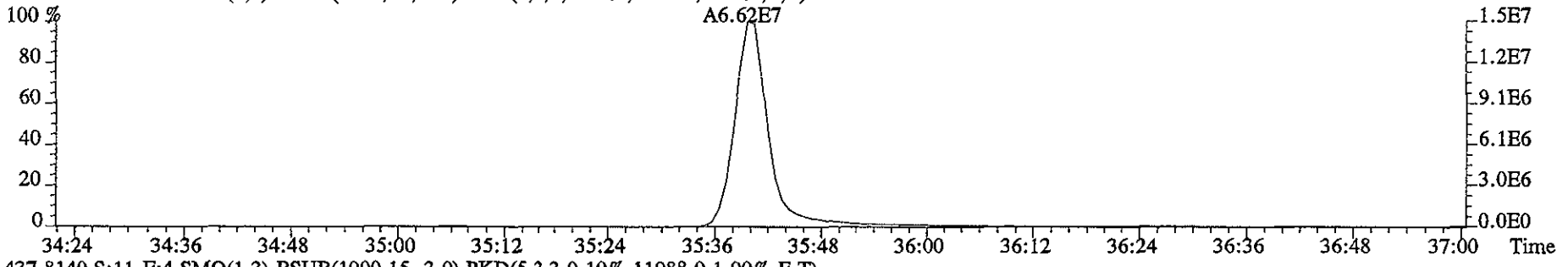
File:07DE104D5 #1-201 Acq: 7-DEC-2010 18:05:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MAVWM-1-AC :G0L020446-1LCS Exp:DIOXINRES
423.7766 S:11 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6816.0,1.00%,F,T)



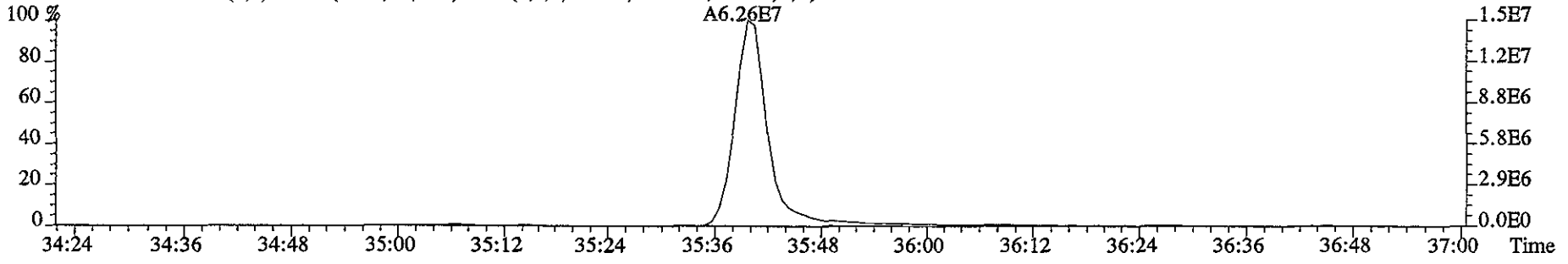
425.7737 S:11 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6604.0,1.00%,F,T)



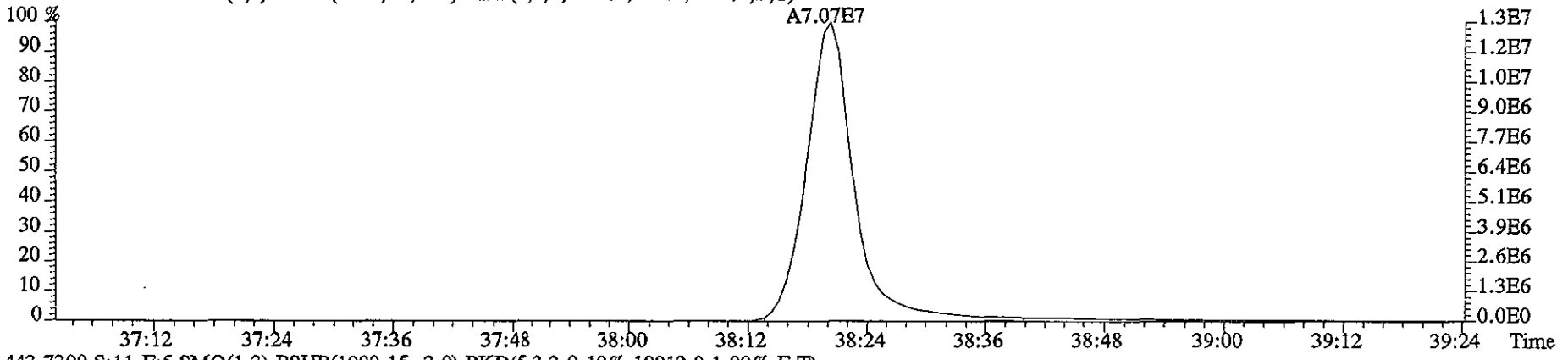
435.8169 S:11 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9224.0,1.00%,F,T)



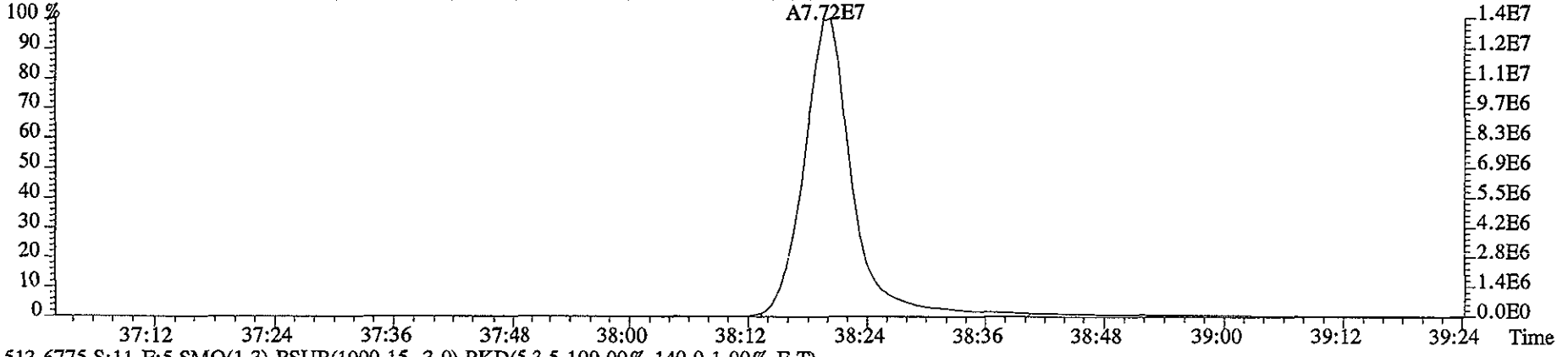
437.8140 S:11 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11088.0,1.00%,F,T)



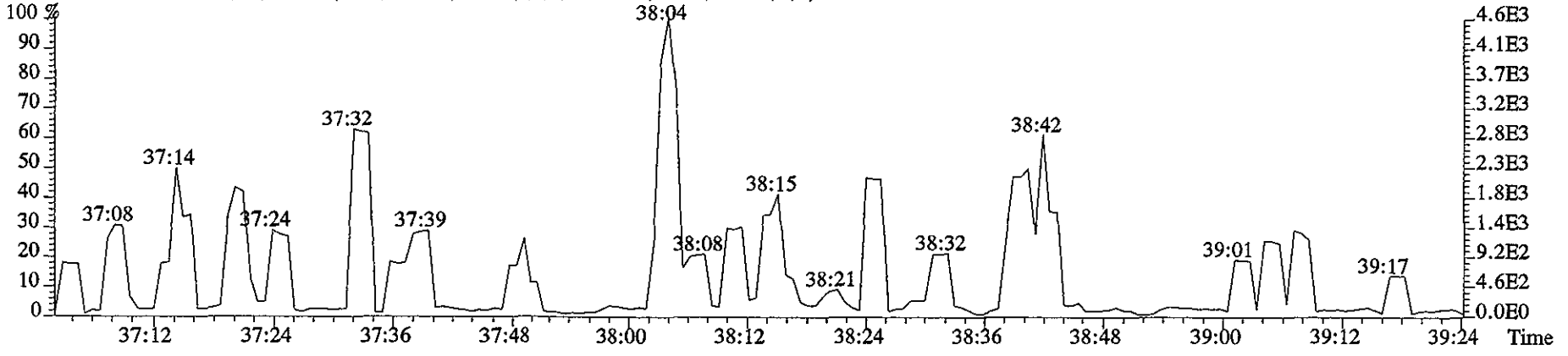
File:07DE104D5 #1-192 Acq: 7-DEC-2010 18:05:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MAVWM-1-AC :G0L020446-1LCS Exp:DIOXINRES
441.7428 S:11 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,640.0,1.00%,F,T)



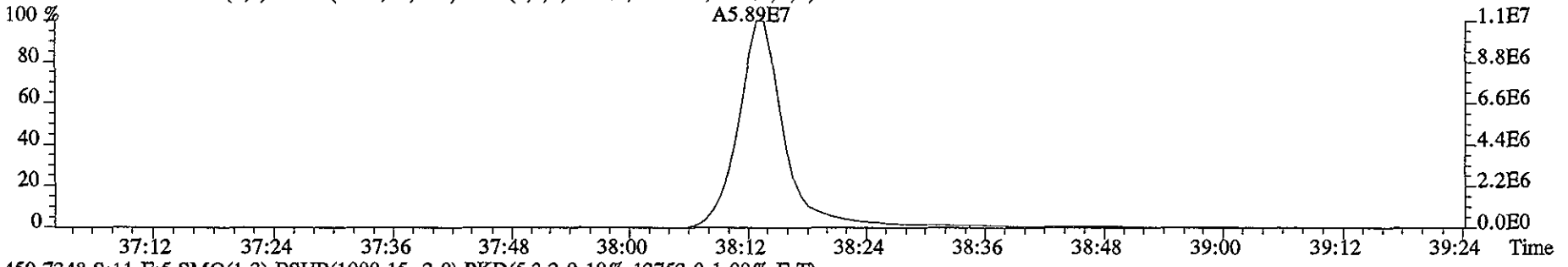
443.7399 S:11 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19012.0,1.00%,F,T)



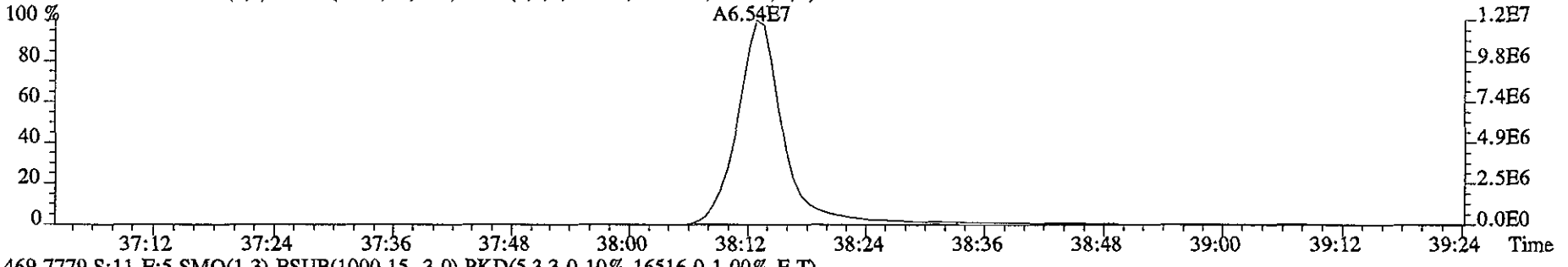
513.6775 S:11 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,140.0,1.00%,F,T)



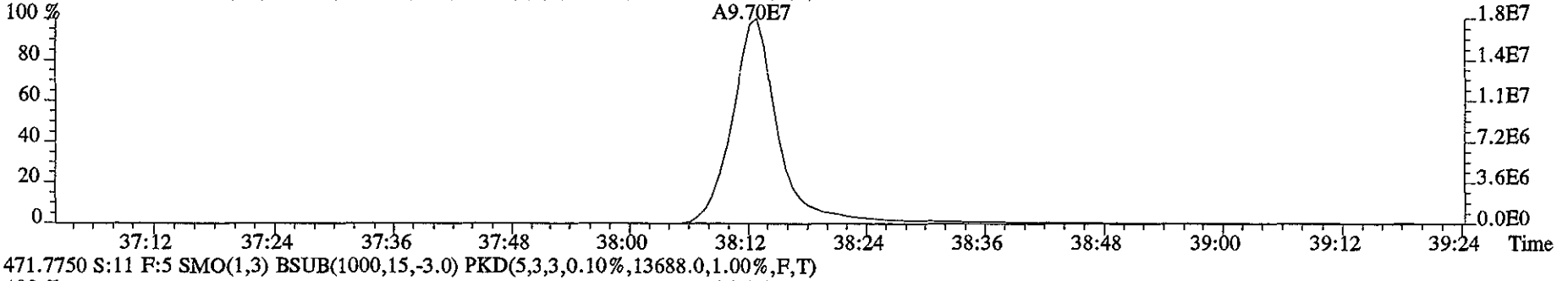
File:07DE104D5 #1-192 Acq: 7-DEC-2010 18:05:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MAVWM-1-AC :G0L020446-1LCS Exp:DIOXINRES
457.7377 S:11 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12536.0,1.00%,F,T)



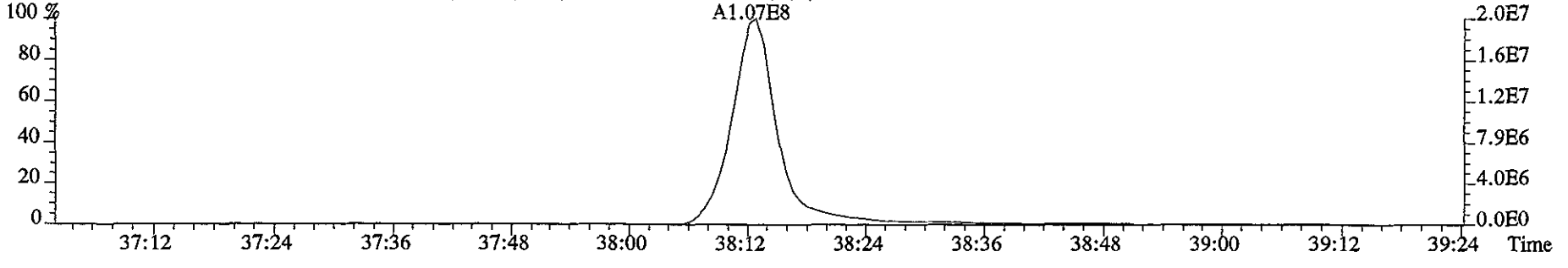
459.7348 S:11 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13752.0,1.00%,F,T)



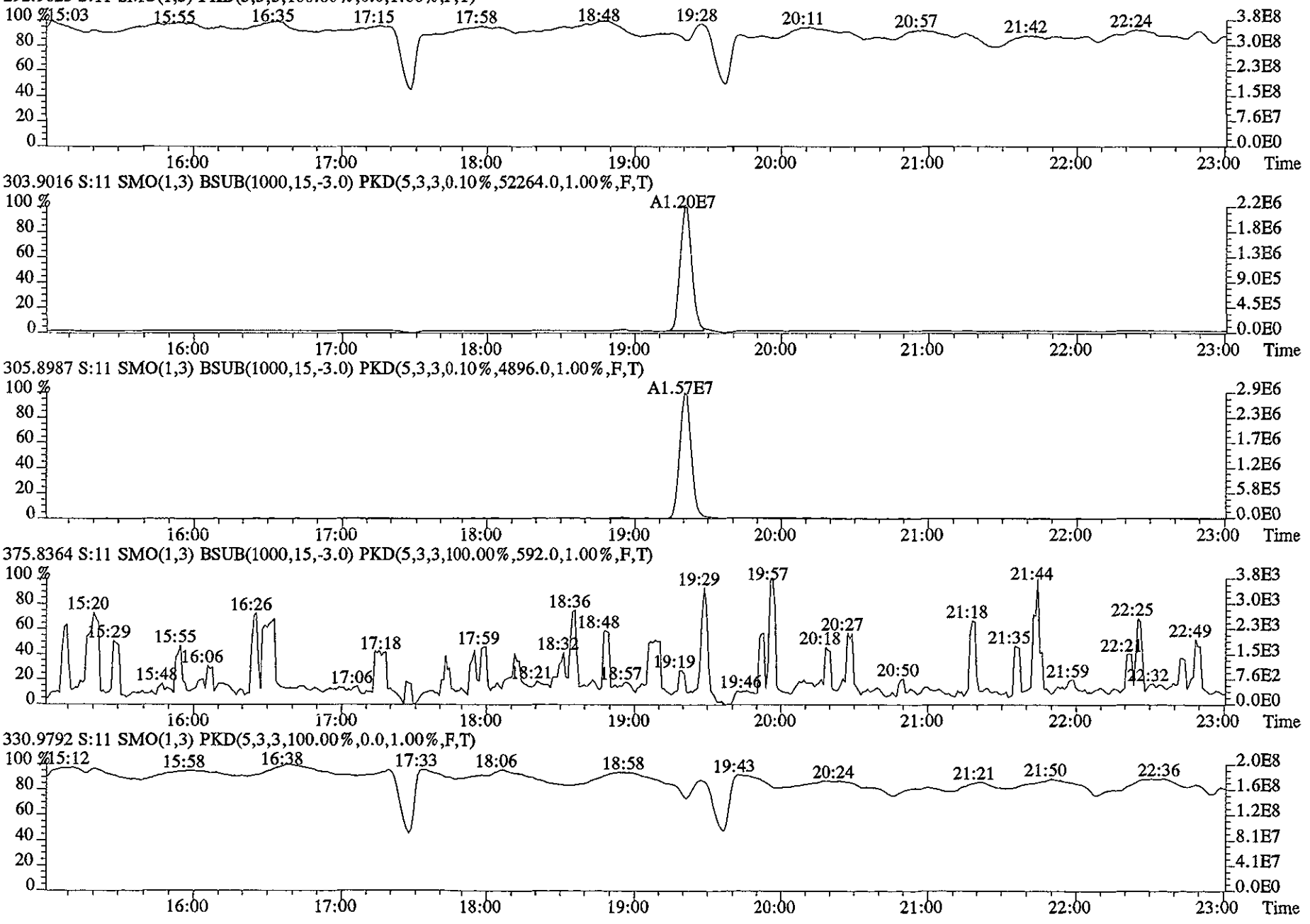
469.7779 S:11 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16516.0,1.00%,F,T)



471.7750 S:11 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13688.0,1.00%,F,T)

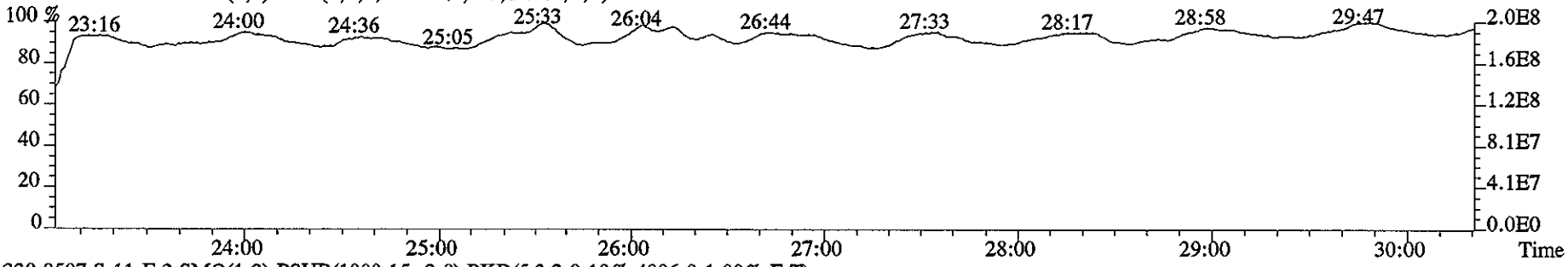


File:07DE104D5 #1-530 Acq: 7-DEC-2010 18:05:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MAVWM-1-AC :G0L020446-1LCS Exp:DIOXINRES

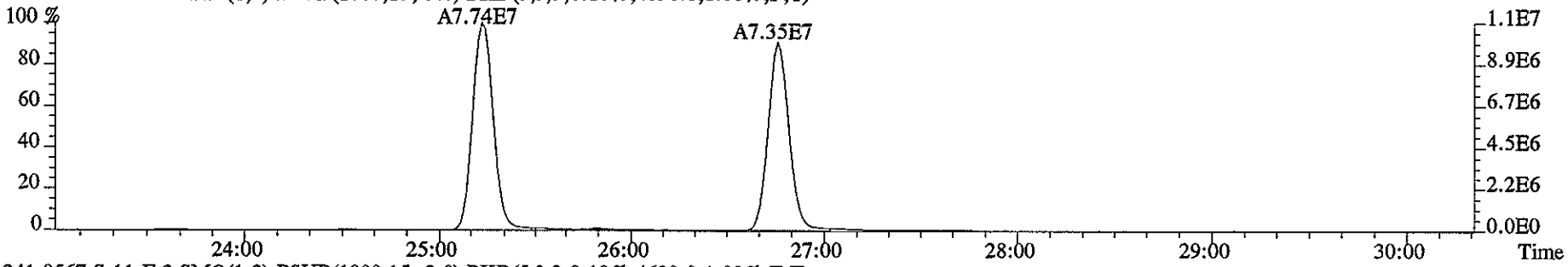


File:07DE104D5 #1-470 Acq: 7-DEC-2010 18:05:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MAVWM-1-AC :G0L020446-1LCS Exp:DIOXINRES

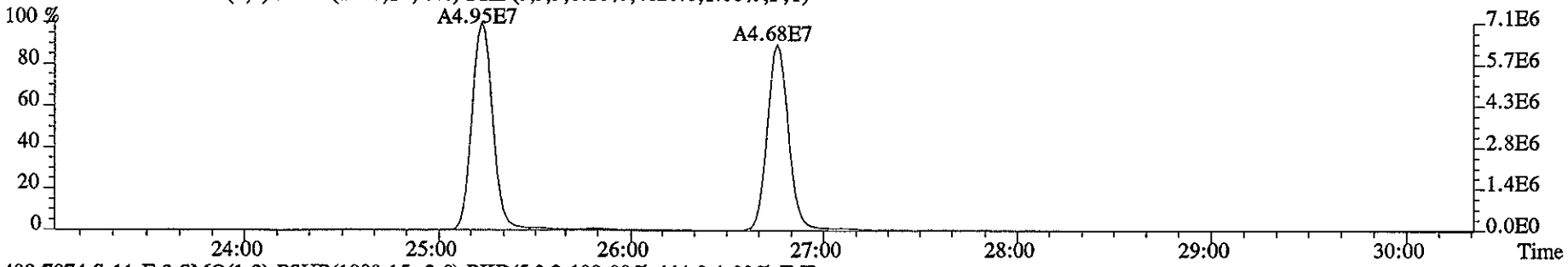
342.9792 S:11 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



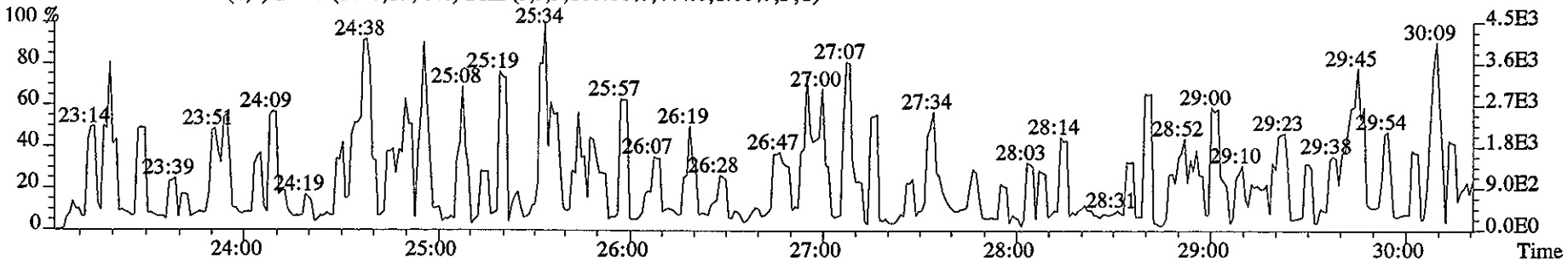
339.8597 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4896.0,1.00%,F,T)



341.8567 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4620.0,1.00%,F,T)

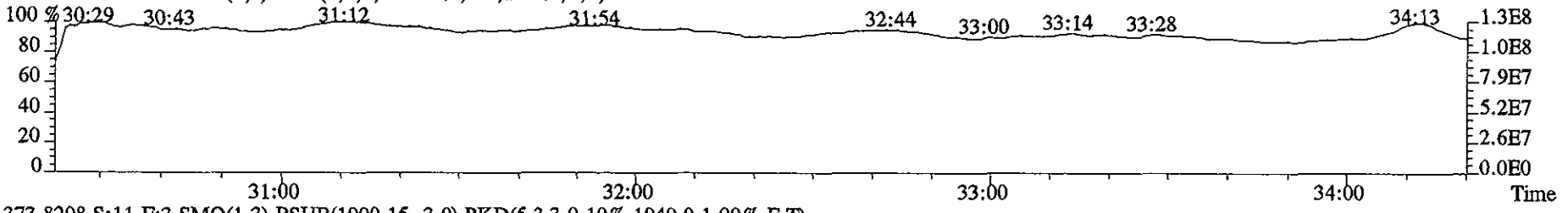


409.7974 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,444.0,1.00%,F,T)

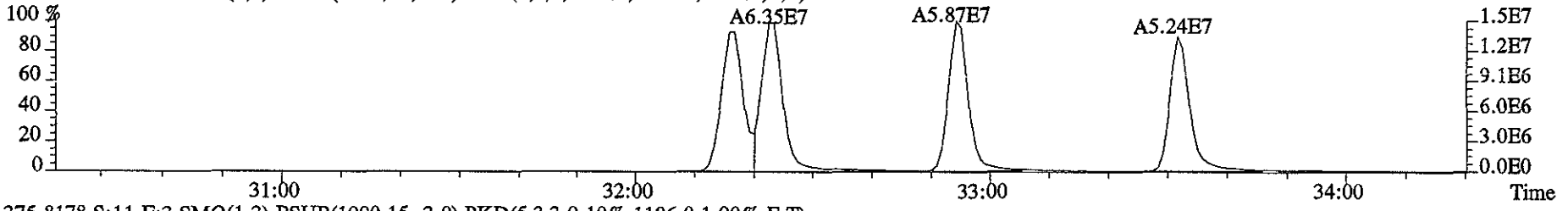


File:07DE104D5 #1-286 Acq: 7-DEC-2010 18:05:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MAVWM-1-AC :G0L020446-1LCS Exp:DIOXINRES

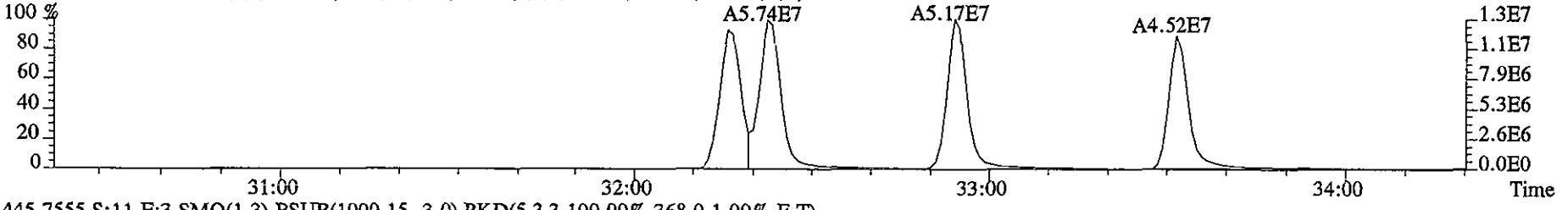
392.9760 S:11 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



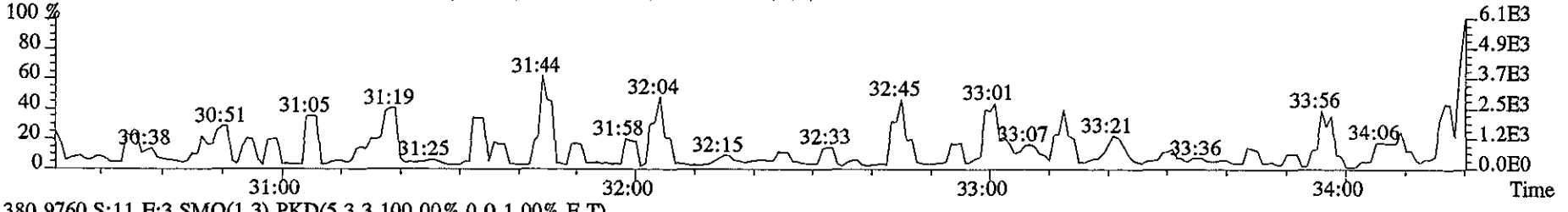
373.8208 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1940.0,1.00%,F,T)



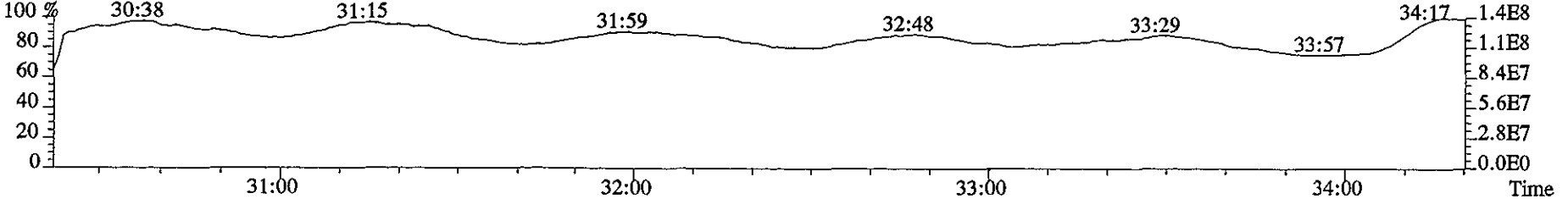
375.8178 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1196.0,1.00%,F,T)



445.7555 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,368.0,1.00%,F,T)

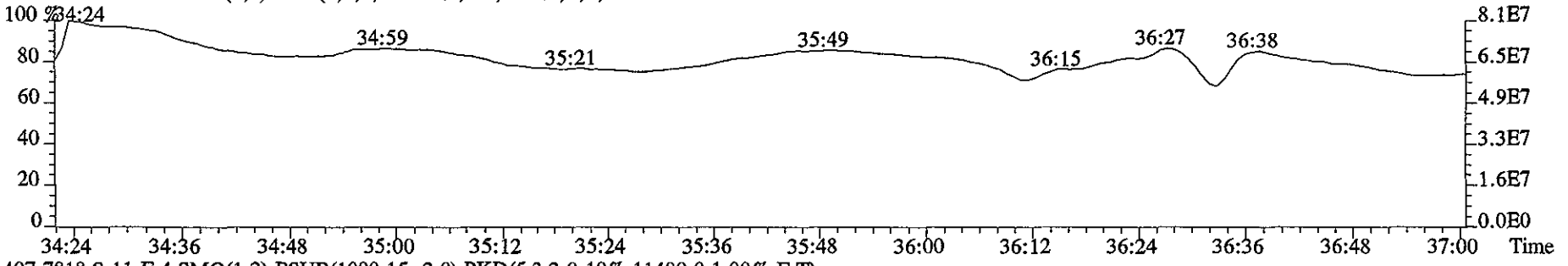


380.9760 S:11 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

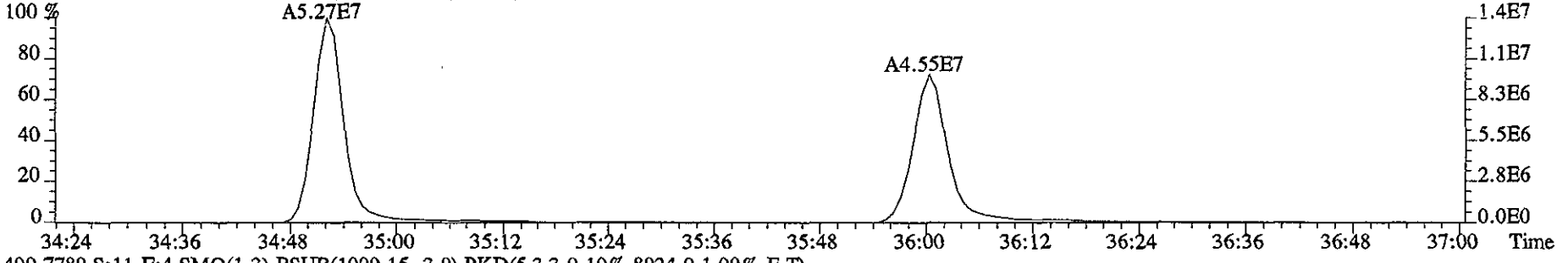


File:07DE104D5 #1-201 Acq: 7-DEC-2010 18:05:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MAVWM-1-AC :G0L020446-1LCS Exp:DIOXINRES

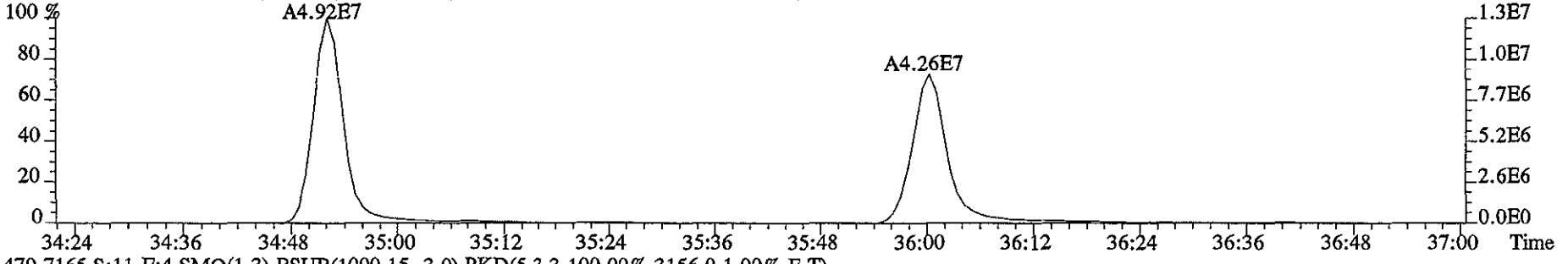
430.9728 S:11 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



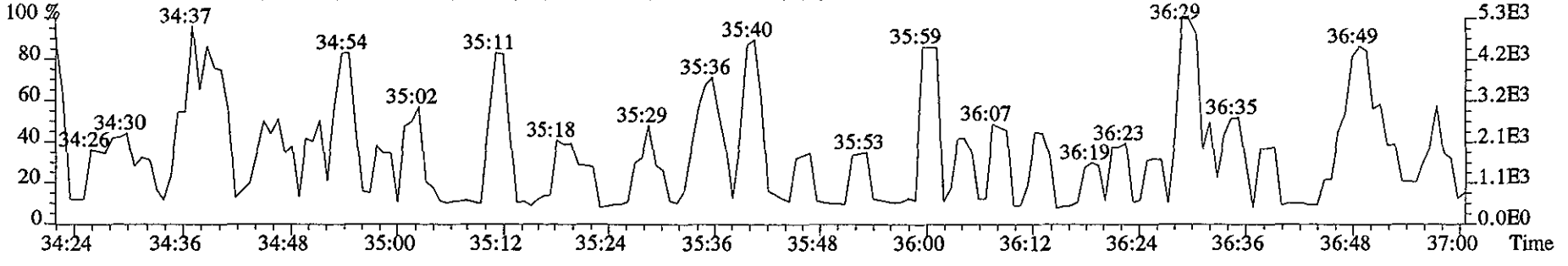
407.7818 S:11 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11480.0,1.00%,F,T)



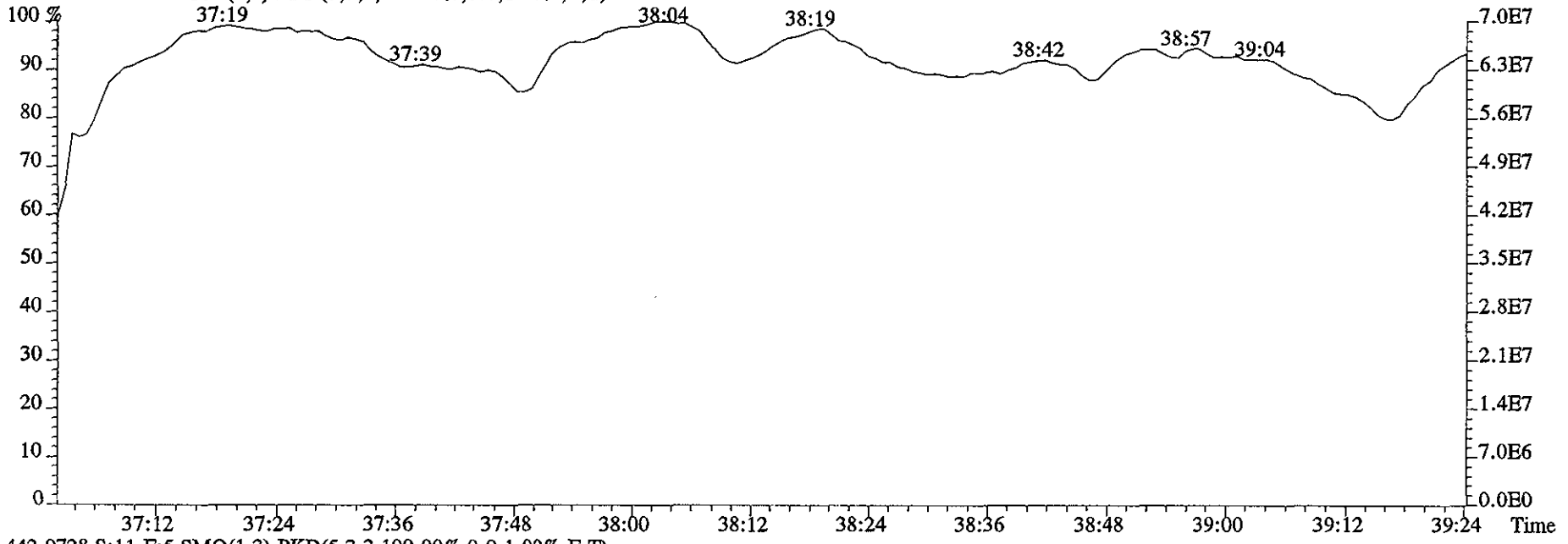
409.7789 S:11 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8924.0,1.00%,F,T)



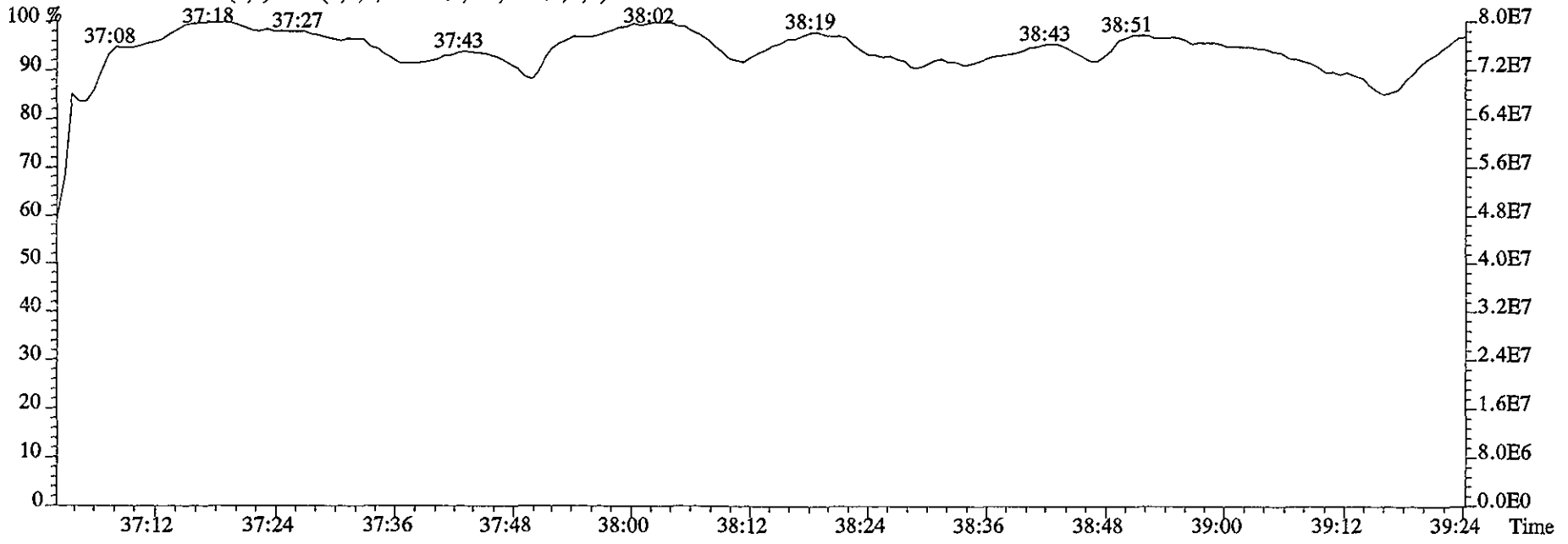
479.7165 S:11 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,3156.0,1.00%,F,T)



File:07DE104D5 #1-192 Acq: 7-DEC-2010 18:05:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:MAVWM-1-AC :G0L020446-1LCS 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)

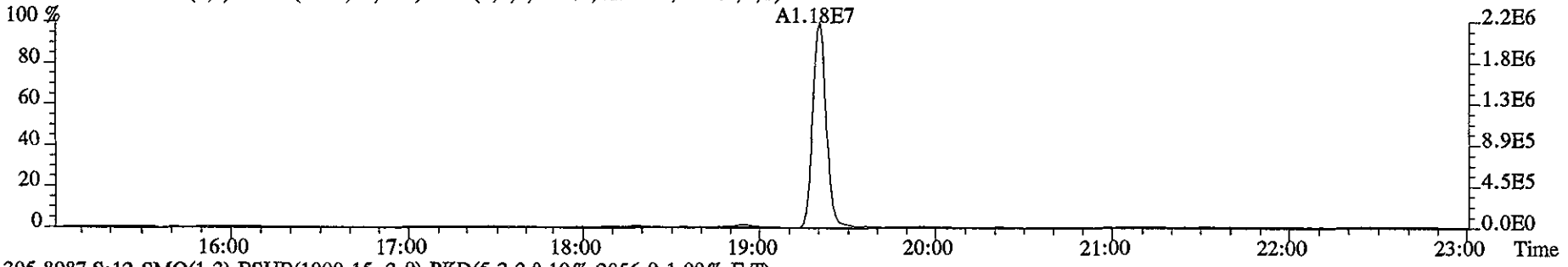


Run text: MAVWM-1-AD Sample text: MAVWM-1-AD :G0L020446-1DCS
Run #10 Filename: 07DE104D5 S: 12 I: 1 Results: 07DE104D5TO9
Acquired: 7-DEC-10 18:49:53 Processed: 8-DEC-10 07:53:19
Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000SAMP

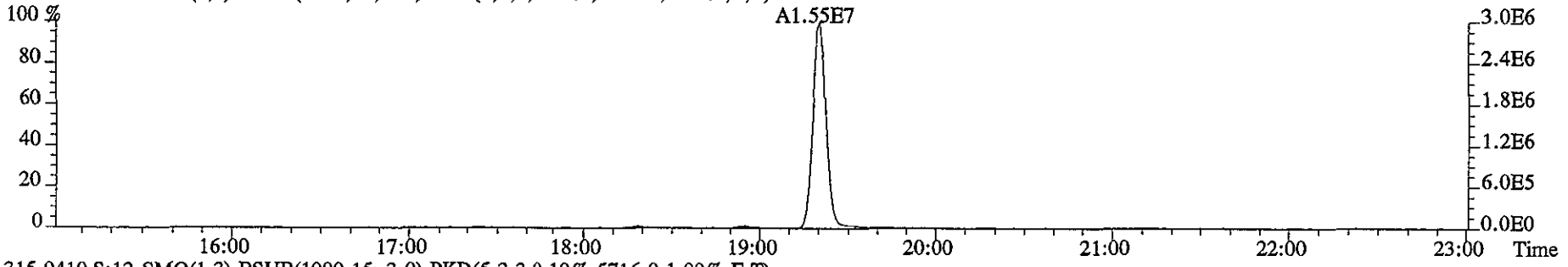
12/8/10 mc

Name	Resp	RA		RT	RRF	Conc		EDL	Rec	M
13C-1,2,3,4-TCDD	217646008	0.81	y	19:56	-	130.33		-	-	n
13C-2,3,7,8-TCDF	259869712	0.81	y	19:19	1.23	3885.01		3.09	97.1	n
2,3,7,8-TCDF	27306931	0.76	y	19:20	0.99	422.64		3.63	-	n
Total TCDF	27680068	0.38	n	18:18	0.99	428.41		3.63	-	n
13C-2,3,7,8-TCDD	197301448	0.81	y	20:08	0.91	4006.49		8.01	100.2	n
2,3,7,8-TCDD	20672333	0.80	y	20:09	0.98	426.15		1.87	-	n
Total TCDD	20806521	0.86	y	18:51	0.98	428.91		1.87	-	n
37Cl-2,3,7,8-TCDD	229456	1.00	y	20:09	1.33	3.51		1.26	0.2	n
13C-1,2,3,7,8-PeCDF	216153656	1.59	y	25:11	0.88	4534.64		6.39	113.4	n
1,2,3,7,8-PeCDF	119293228	1.56	y	25:13	1.08	2050.43		3.38	-	n
2,3,4,7,8-PeCDF	111996160	1.57	y	26:46	1.05	1982.17		3.48	-	n
Total F2 PeCDF	233499175	1.68	y	23:36	1.06	4071.13		3.43	-	n
Total F1 PeCDF	7682	0.58	n	19:27	1.06	0.13		1.66	-	n
13C-1,2,3,7,8-PeCDD	154850632	1.62	y	27:35	0.66	4306.61		3.31	107.7	n
1,2,3,7,8-PeCDD	79269660	1.53	y	27:37	0.93	2212.56		3.86	-	n
Total PeCDD	79269660	1.53	y	27:37	0.93	2212.56		3.86	-	n
13C-1,2,3,7,8,9-HxCDD	143413824	1.28	y	33:22	-	121.13		-	-	n
13C-1,2,3,4,7,8-HxCDF	138545424	0.50	y	32:15	1.04	3698.57		2.26	92.5	n
1,2,3,4,7,8-HxCDF	89331488	1.15	y	32:16	1.22	2118.84		0.86	-	n
1,2,3,6,7,8-HxCDF	105856768	1.17	y	32:23	~~1.20~~ 1.55	~~2384.64~~	1969.25	0.81	-	n
2,3,4,6,7,8-HxCDF	95360580	1.18	y	32:54	1.23	2232.17		0.85	-	n
1,2,3,7,8,9-HxCDF	83428212	1.17	y	33:33	1.10	2193.38		0.95	-	n
Total HxCDF	374165457	1.19	y	31:14	1.21	8933.53		0.86	-	n
13C-1,2,3,6,7,8-HxCDD	124700948	1.14	y	33:06	0.83	4186.46		1.93	104.7	n
1,2,3,4,7,8-HxCDD	59993930	1.23	y	33:03	1.04	1855.41		1.48	-	n
1,2,3,6,7,8-HxCDD	77214388	1.27	y	33:07	1.16	2130.03		1.32	-	n
1,2,3,7,8,9-HxCDD	73045130	1.26	y	33:23	1.18	1982.75		1.30	-	n
Total HxCDD	210253448	1.23	y	33:03	1.13	5968.19		1.36	-	n
13C-1,2,3,4,6,7,8-HpCDF	111685080	0.44	y	34:52	0.91	3423.04		14.72	85.6	n
1,2,3,4,6,7,8-HpCDF	82718964	1.07	y	34:53	1.35	2201.39		7.73	-	n
1,2,3,4,7,8,9-HpCDF	70336460	1.06	y	36:00	1.09	2303.83		9.51	-	n
Total HpCDF	153055424	1.07	y	34:53	1.22	4505.22		8.52	-	n
13C-1,2,3,4,6,7,8-HpCDD	103533768	1.05	y	35:41	0.83	3493.43		7.46	87.3	n
1,2,3,4,6,7,8-HpCDD	56669096	1.04	y	35:42	1.07	2042.93		7.40	-	n
Total HpCDD	56994577	1.07	y	35:07	1.07	2054.66		7.40	-	n
13C-OCDD	155882152	0.91	y	38:14	0.62	7013.66		6.15	87.7	n
OCDF	112077828	0.91	y	38:20	1.37	4197.58		8.25	-	n
OCDD	93724116	0.90	y	38:14	1.20	4010.61		1.56	-	n

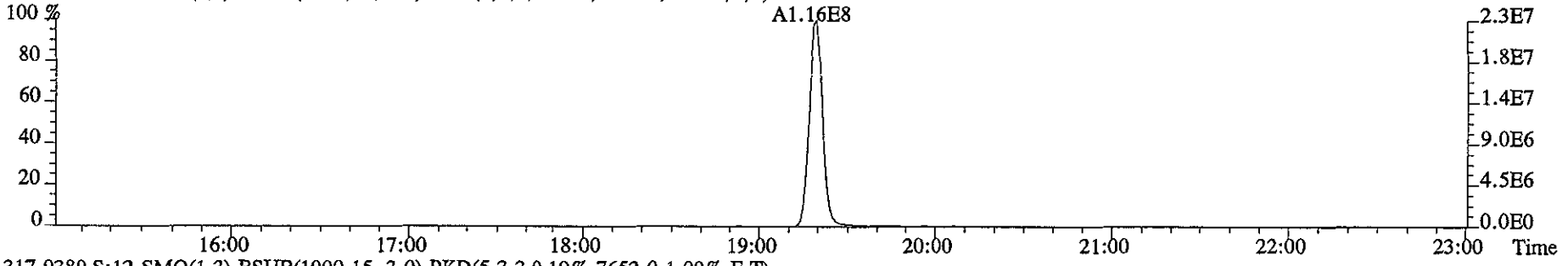
File:07DE104D5 #1-530 Acq: 7-DEC-2010 18:49:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MAVWM-1-AD :G0L020446-1DCS Exp:DIOXINRES
303.9016 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11348.0,1.00%,F,T)



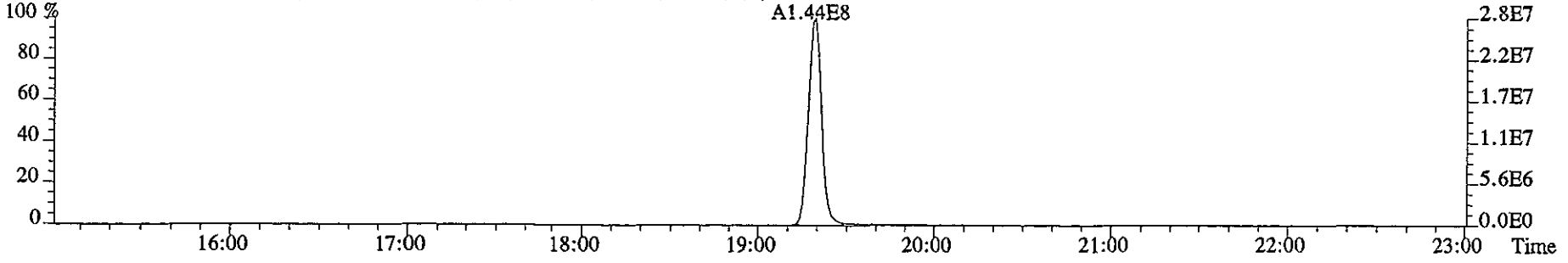
305.8987 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3856.0,1.00%,F,T)



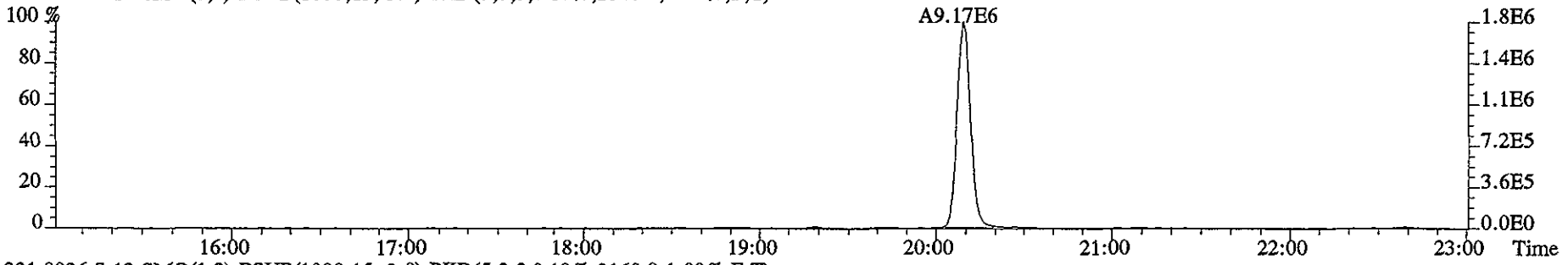
315.9419 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5716.0,1.00%,F,T)



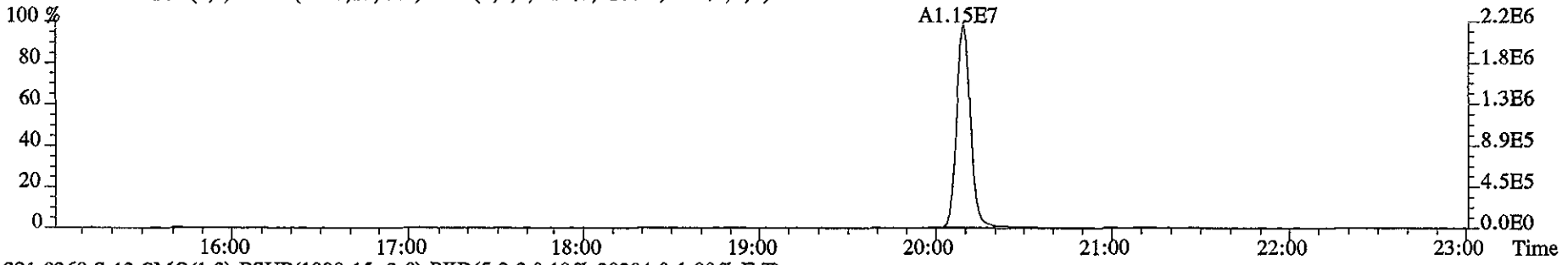
317.9389 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7652.0,1.00%,F,T)



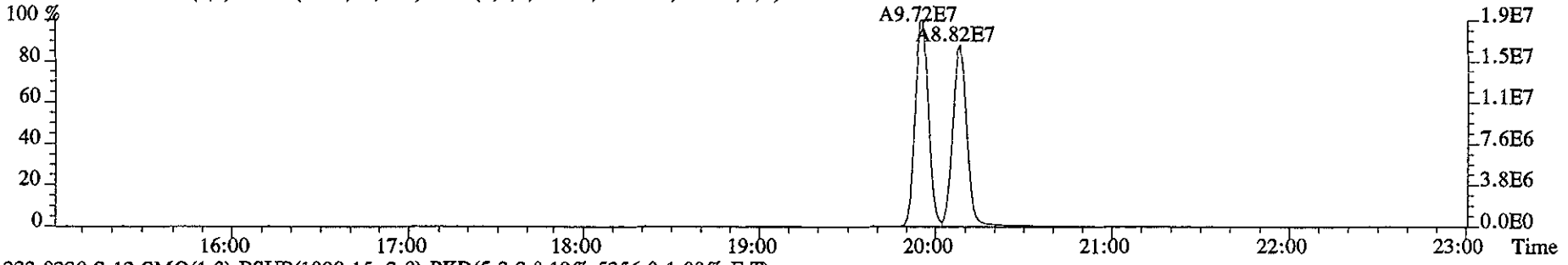
File:07DE104D5 #1-530 Acq: 7-DEC-2010 18:49:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MAVWM-1-AD :G0L020446-1DCS Exp:DIOXINRES
319.8965 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2548.0,1.00%,F,T)



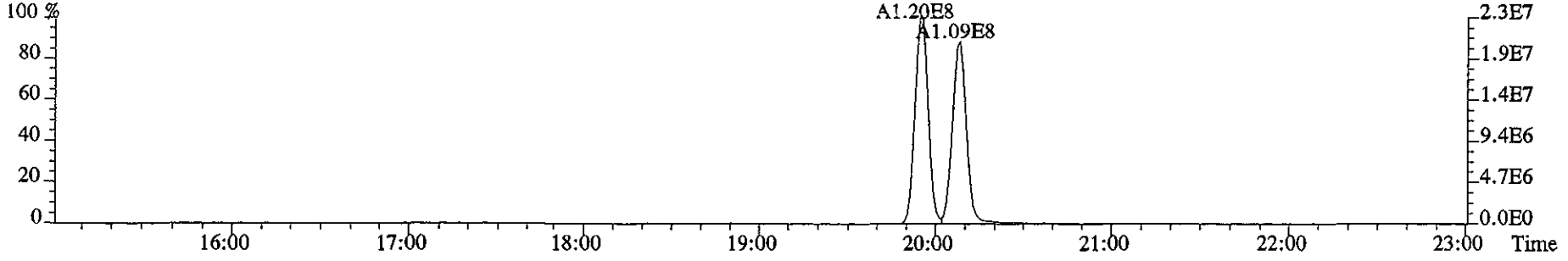
321.8936 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3160.0,1.00%,F,T)



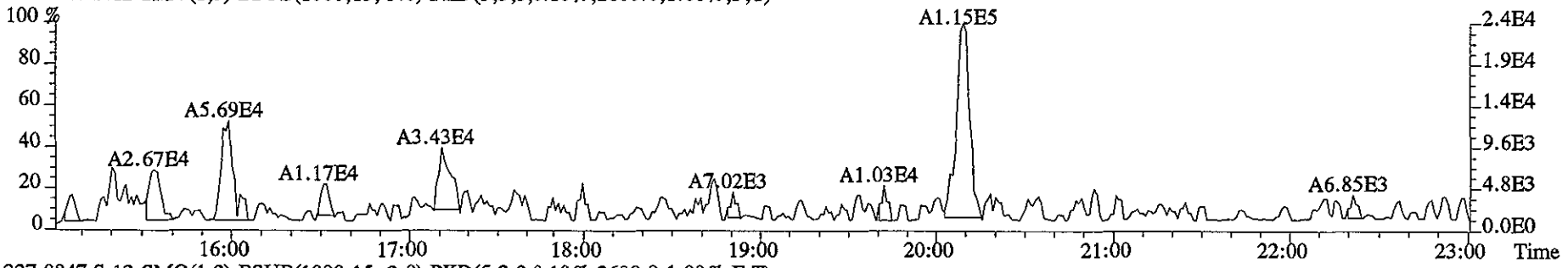
331.9368 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20284.0,1.00%,F,T)



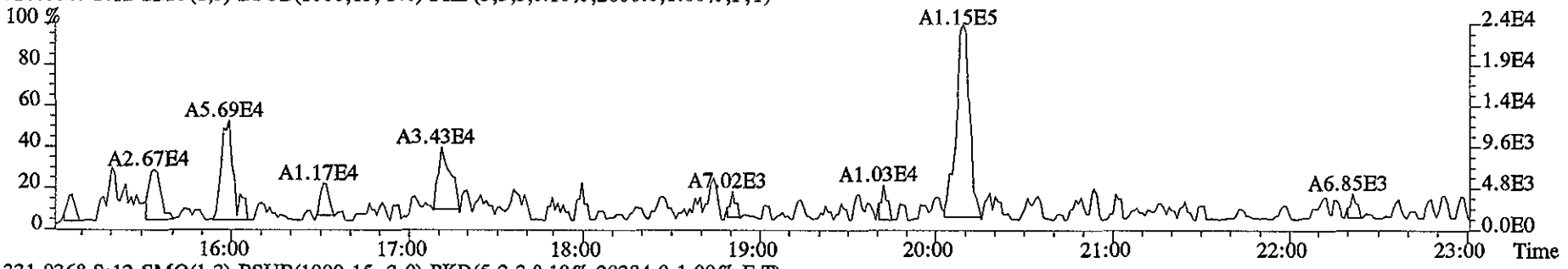
333.9339 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5256.0,1.00%,F,T)



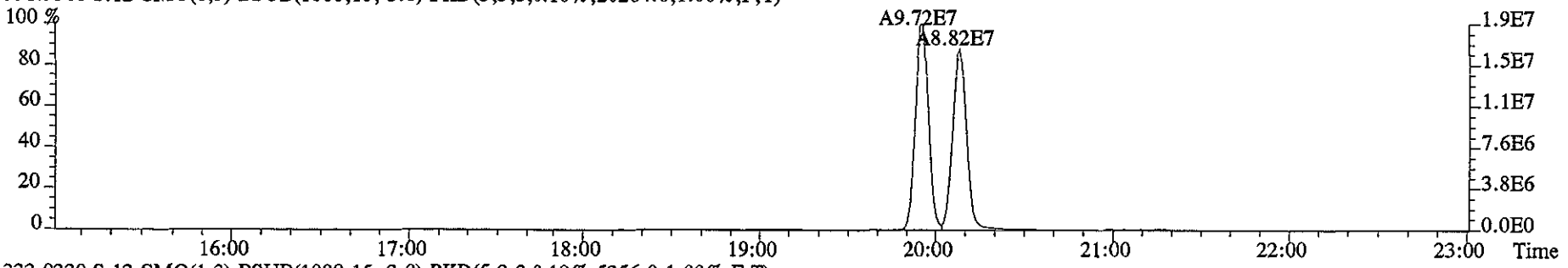
File:07DE104D5 #1-530 Acq: 7-DEC-2010 18:49:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MAVWM-1-AD :G0L020446-1DCS Exp:DIOXINRES
327.8847 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2600.0,1.00%,F,T)



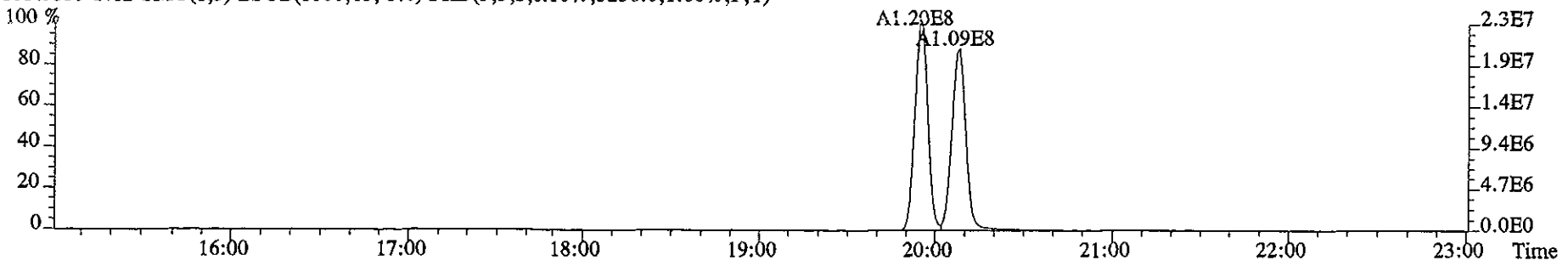
327.8847 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2600.0,1.00%,F,T)



331.9368 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20284.0,1.00%,F,T)

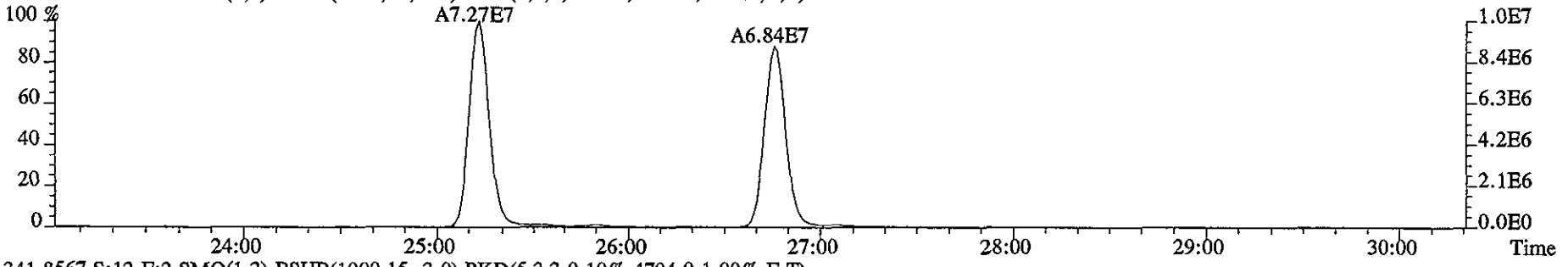


333.9339 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5256.0,1.00%,F,T)

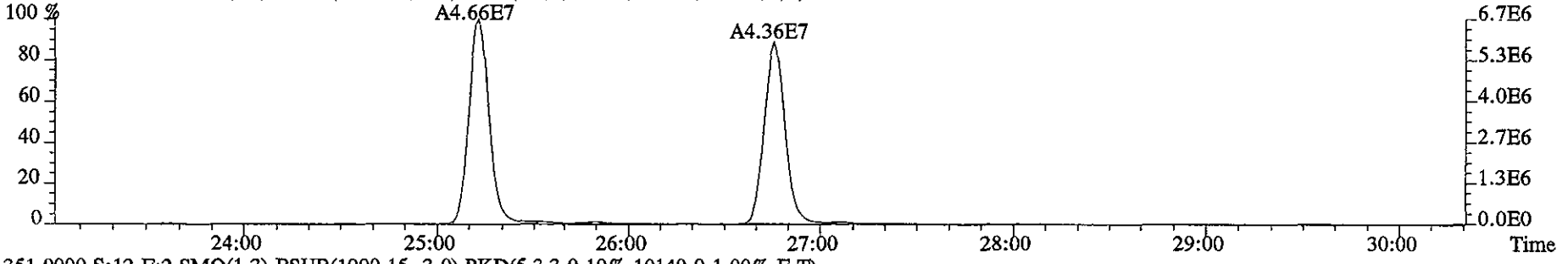


File:07DE104D5 #1-470 Acq: 7-DEC-2010 18:49:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MAVWM-1-AD :G0L020446-1DCS Exp:DIOXINRES

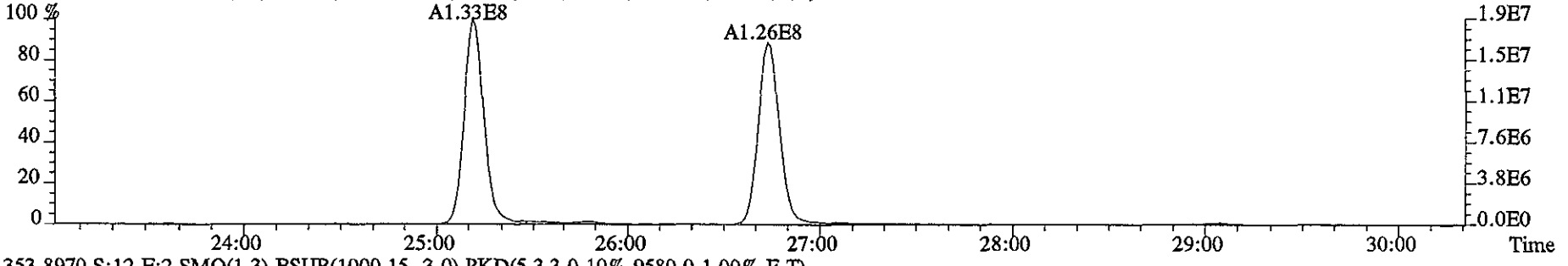
339.8597 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4700.0,1.00%,F,T)



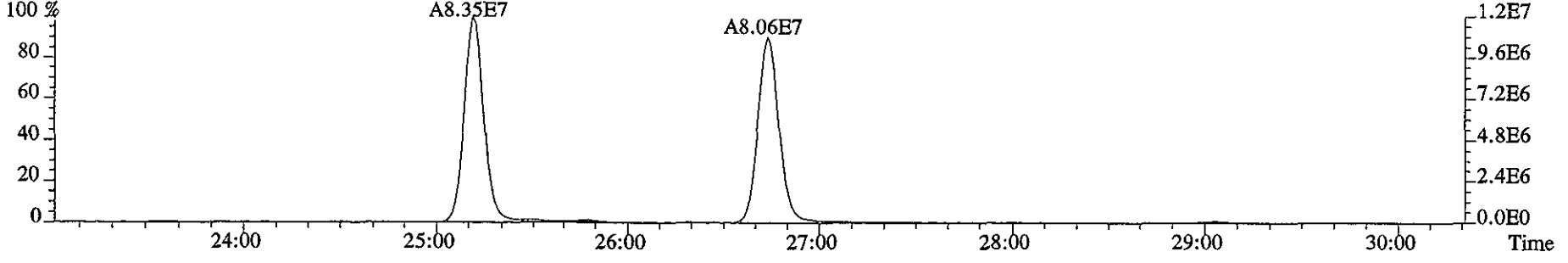
341.8567 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4704.0,1.00%,F,T)



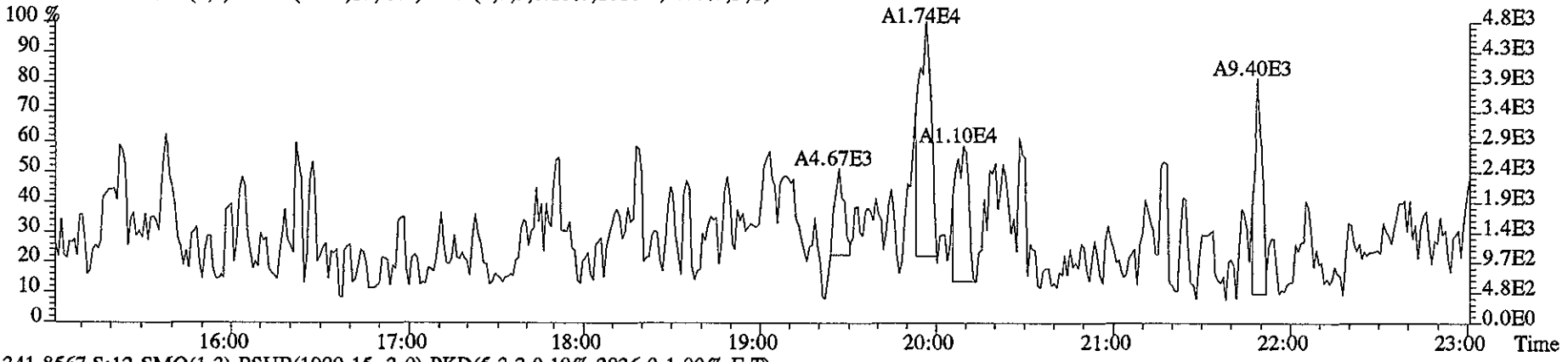
351.9000 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10140.0,1.00%,F,T)



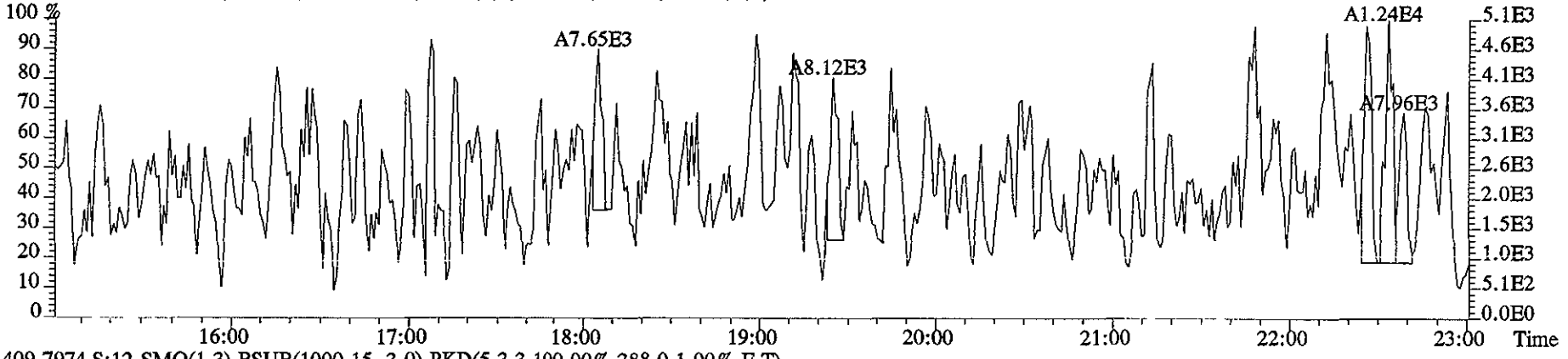
353.8970 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9580.0,1.00%,F,T)



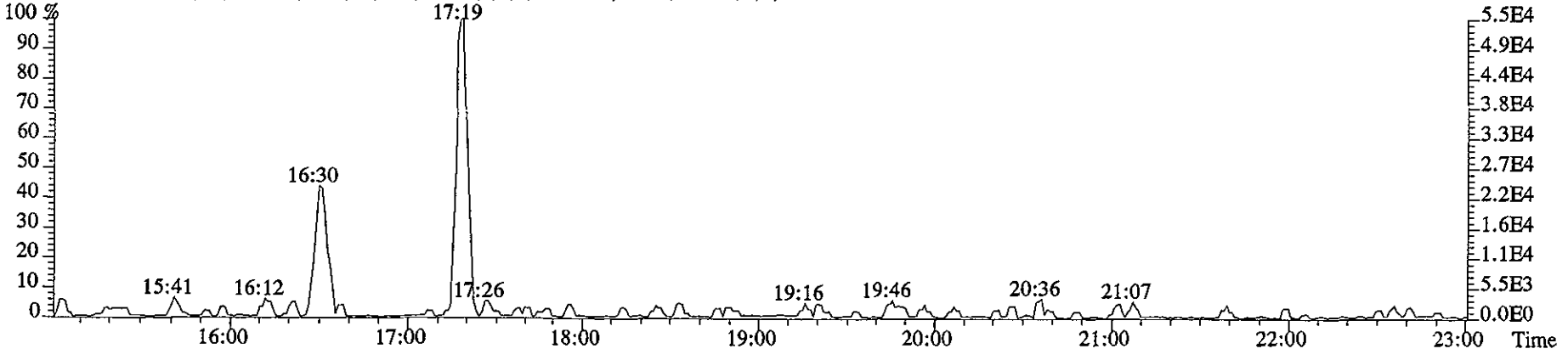
File:07DE104D5 #1-530 Acq: 7-DEC-2010 18:49:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MAVWM-1-AD :G0L020446-1DCS Exp:DIOXINRES
339.8597 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1616.0,1.00%,F,T)



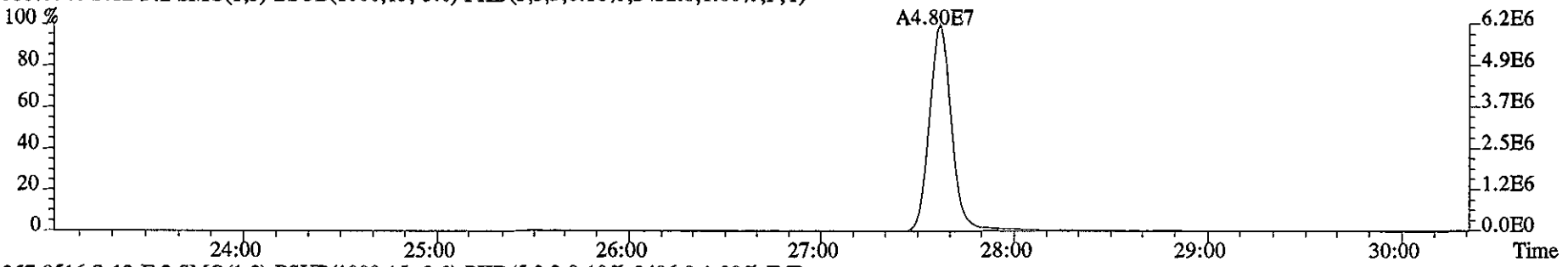
341.8567 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2936.0,1.00%,F,T)



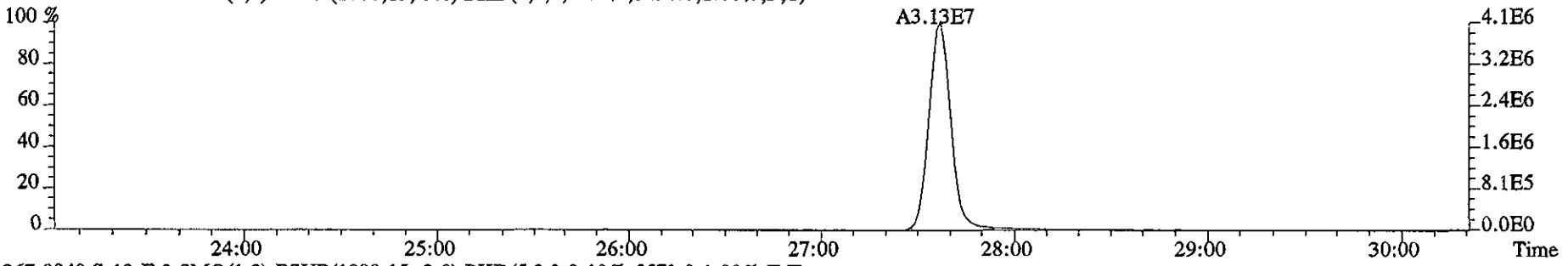
409.7974 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,388.0,1.00%,F,T)



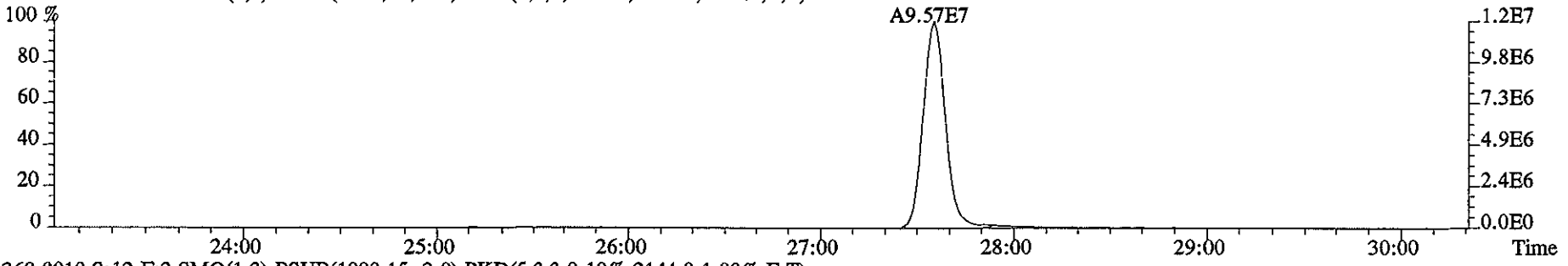
File:07DE104D5 #1-470 Acq: 7-DEC-2010 18:49:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MAVWM-1-AD :G0L020446-1DCS Exp:DIOXINRES
355.8546 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3432.0,1.00%,F,T)



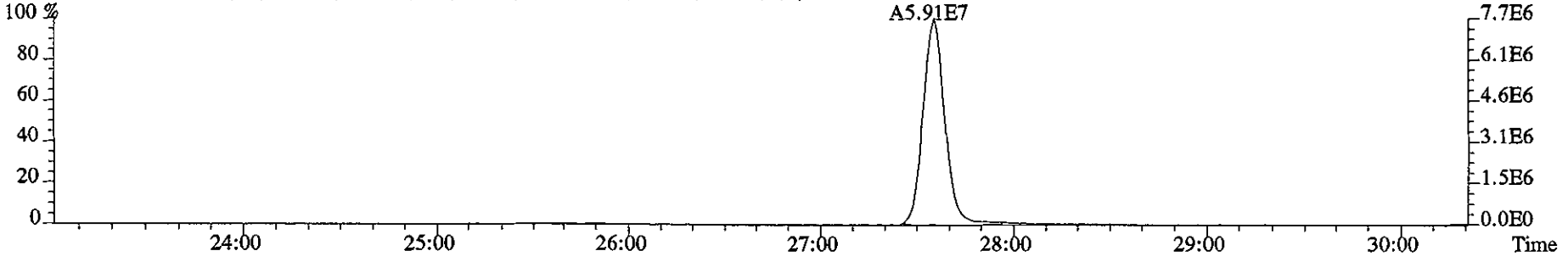
357.8516 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2496.0,1.00%,F,T)



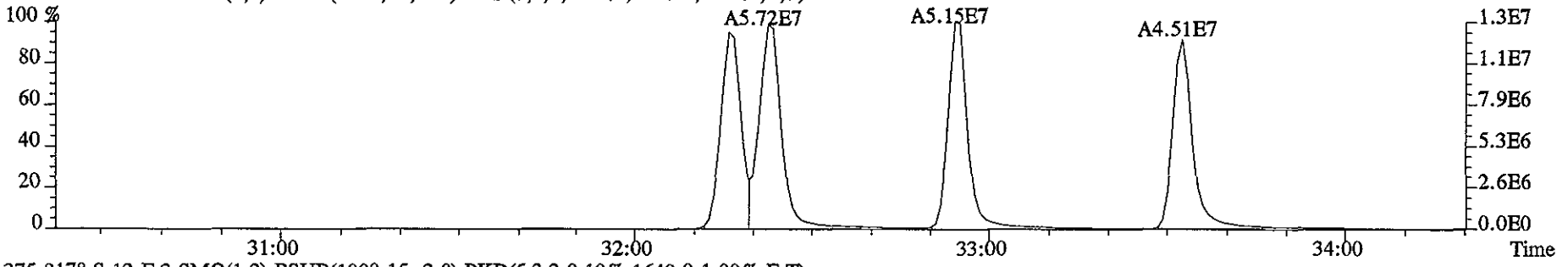
367.8949 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5572.0,1.00%,F,T)



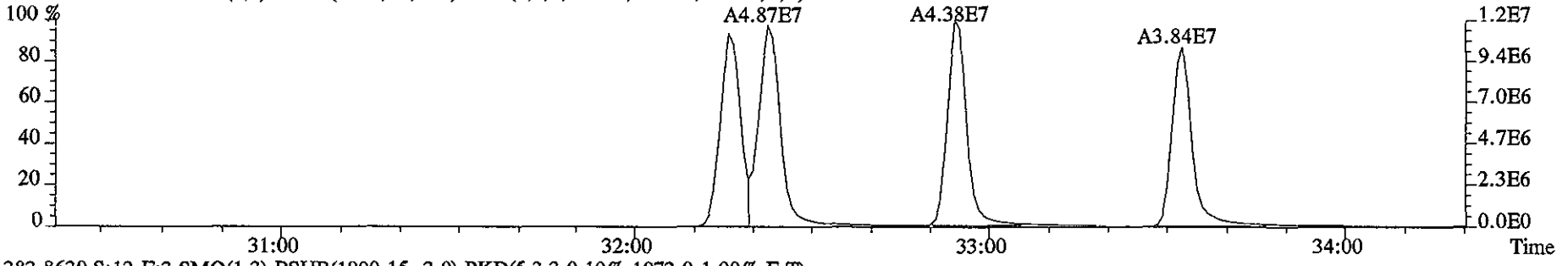
369.8919 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2144.0,1.00%,F,T)



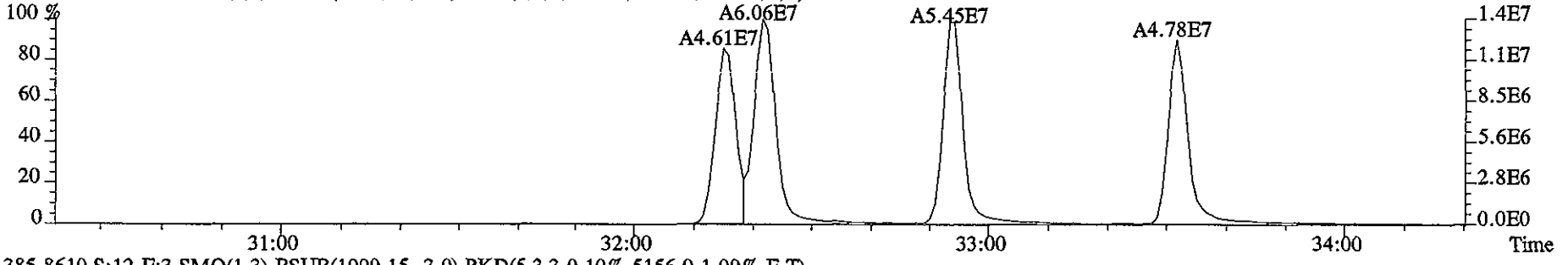
File:07DE104D5 #1-286 Acq: 7-DEC-2010 18:49:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MAVWM-1-AD :G0L020446-1DCS Exp:DIOXINRES
373.8208 S:12 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1508.0,1.00%,F,T)



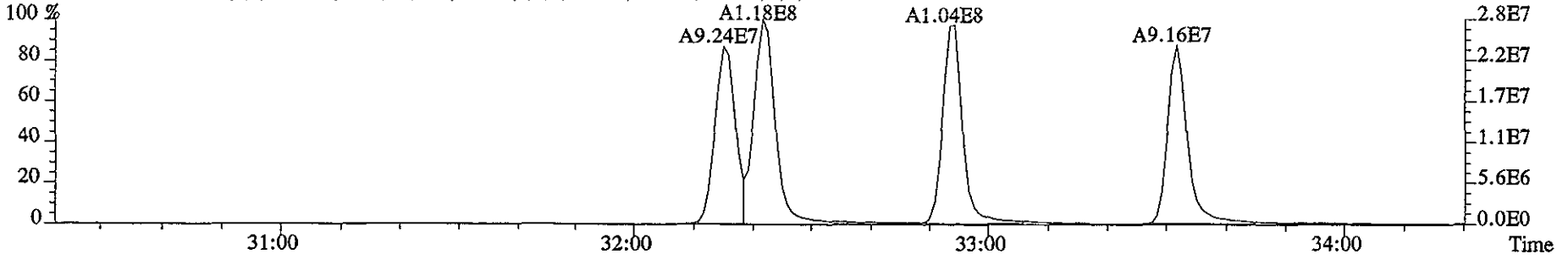
375.8178 S:12 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1640.0,1.00%,F,T)



383.8639 S:12 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1972.0,1.00%,F,T)

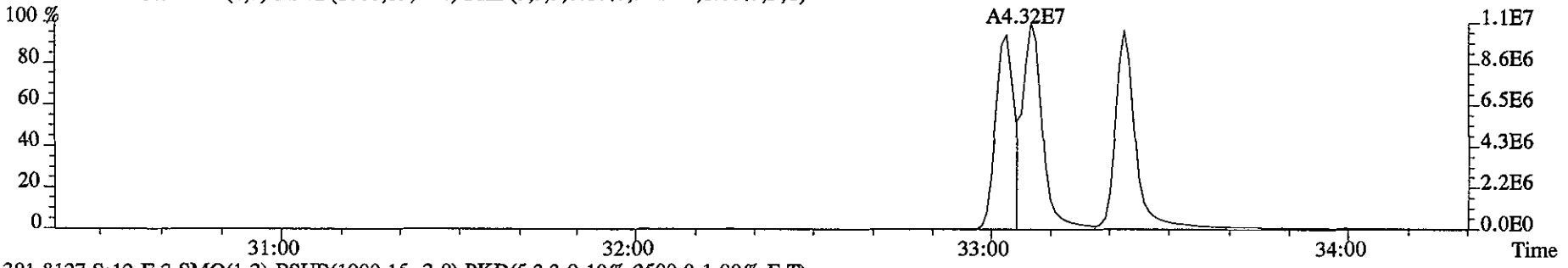


385.8610 S:12 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5156.0,1.00%,F,T)

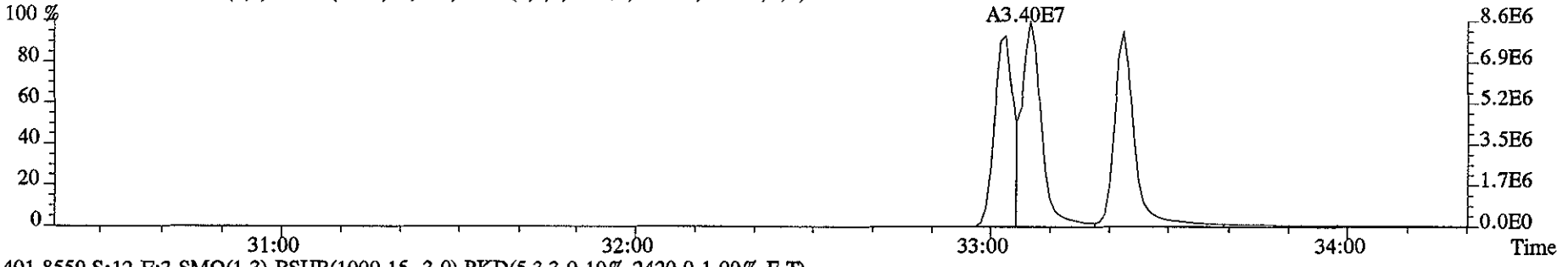


File:07DE104D5 #1-286 Acq: 7-DEC-2010 18:49:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MAVWM-1-AD :G0L020446-1DCS Exp:DIOXINRES

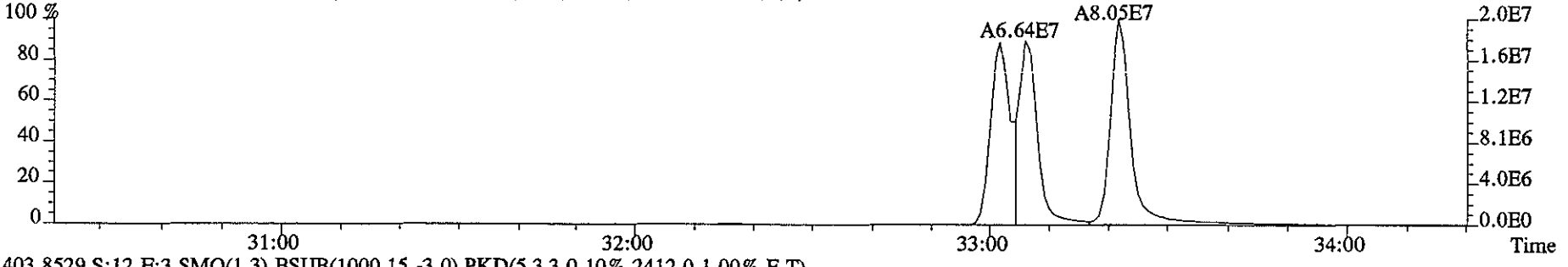
389.8157 S:12 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1616.0,1.00%,F,T)



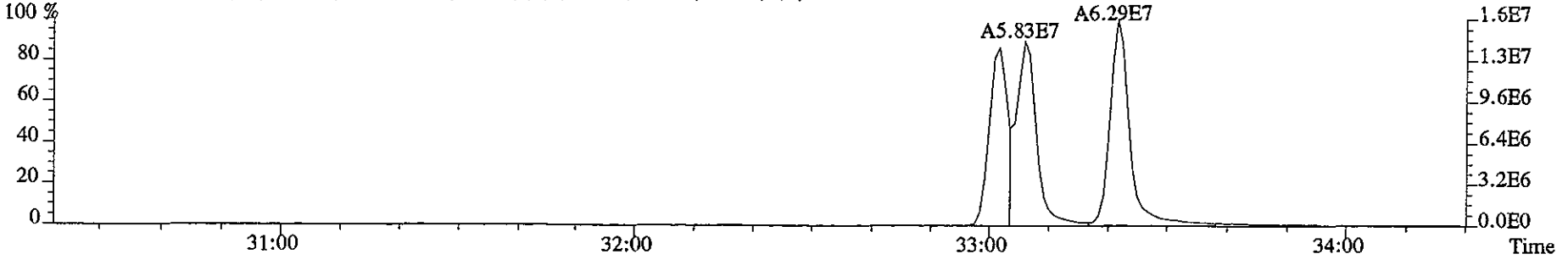
391.8127 S:12 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2500.0,1.00%,F,T)



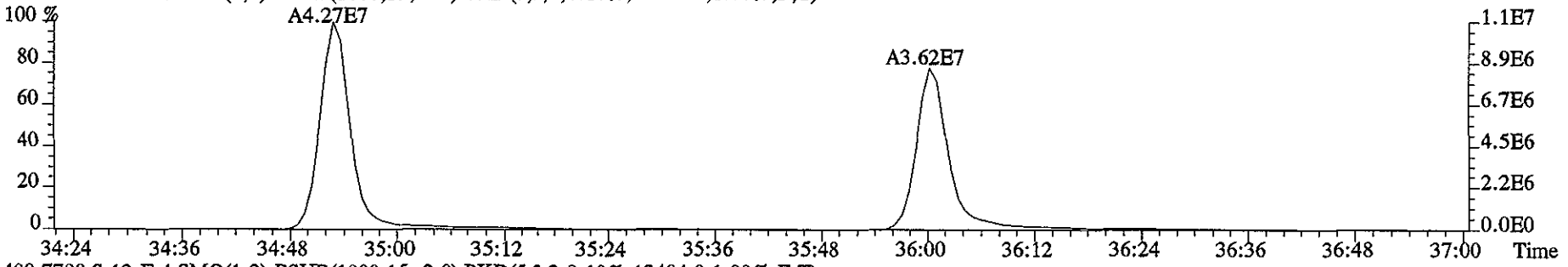
401.8559 S:12 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2420.0,1.00%,F,T)



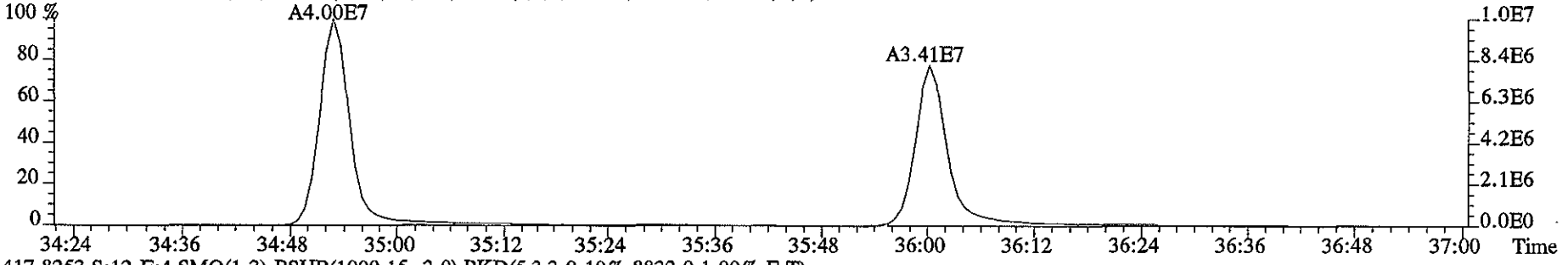
403.8529 S:12 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2412.0,1.00%,F,T)



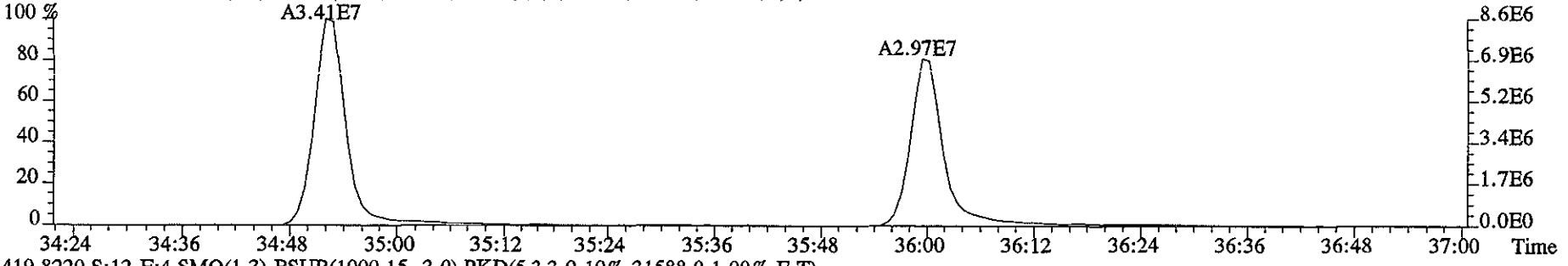
File:07DE104D5 #1-201 Acq: 7-DEC-2010 18:49:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MAVWM-1-AD :G0L020446-1DCS Exp:DIOXINRES
407.7818 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11100.0,1.00%,F,T)



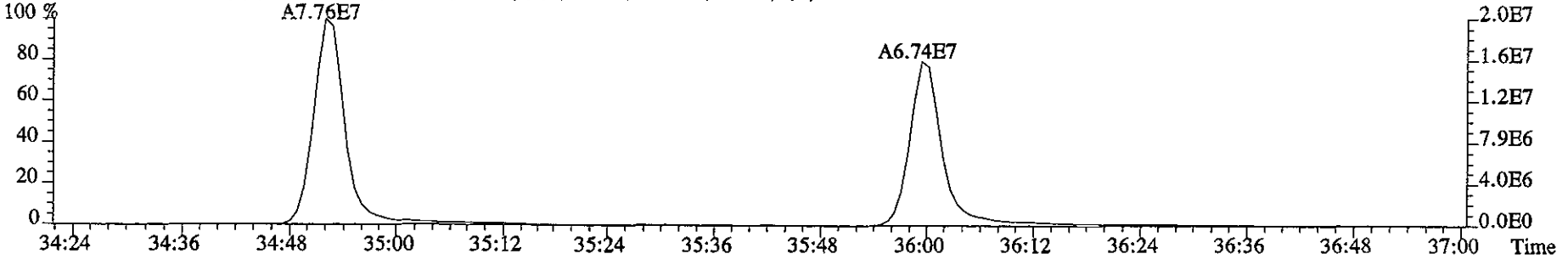
409.7789 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13484.0,1.00%,F,T)



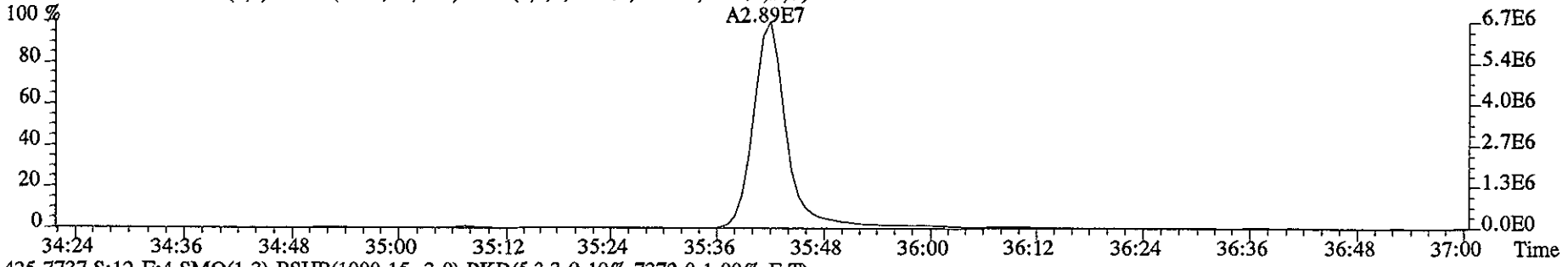
417.8253 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8832.0,1.00%,F,T)



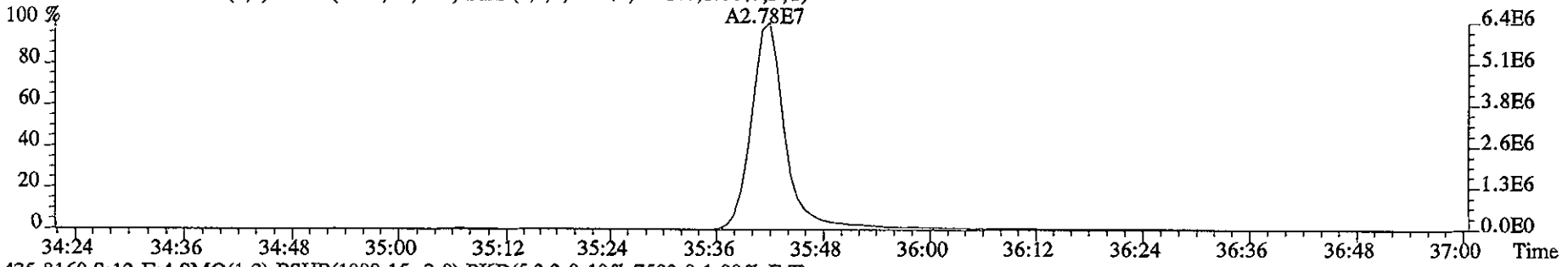
419.8220 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,31588.0,1.00%,F,T)



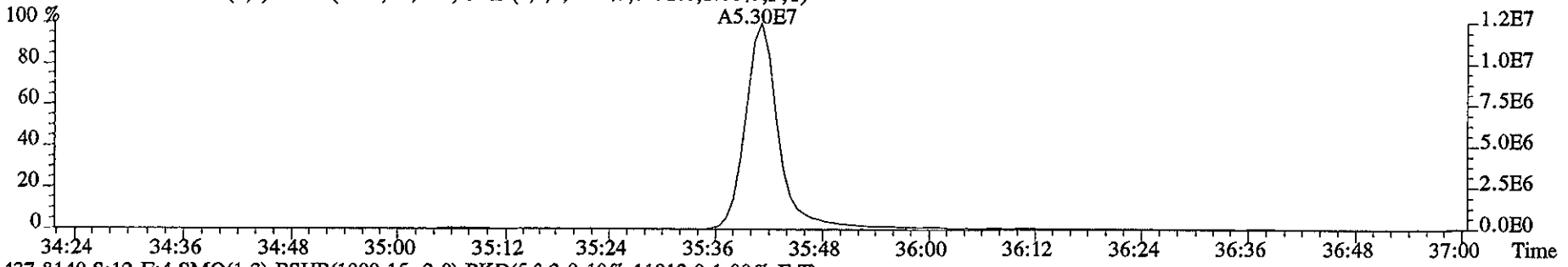
File:07DE104D5 #1-201 Acq: 7-DEC-2010 18:49:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MAVWM-1-AD :G0L020446-1DCS Exp:DIOXINRES
423.7766 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8716.0,1.00%,F,T)



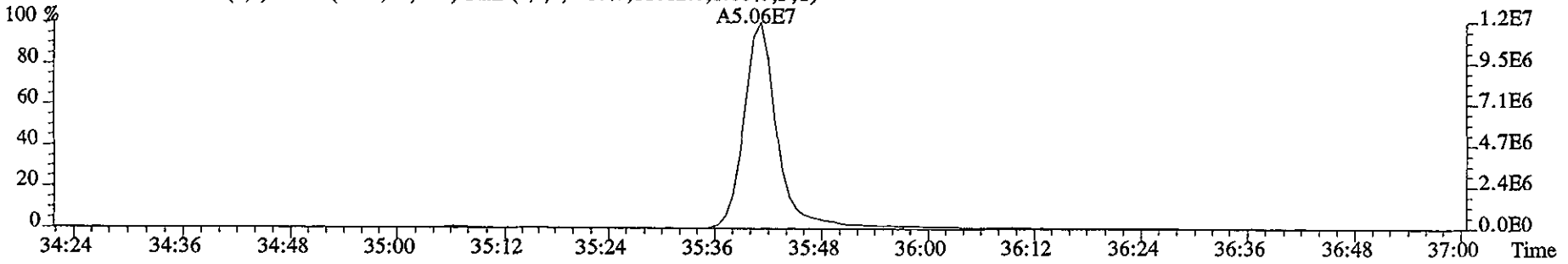
425.7737 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7372.0,1.00%,F,T)



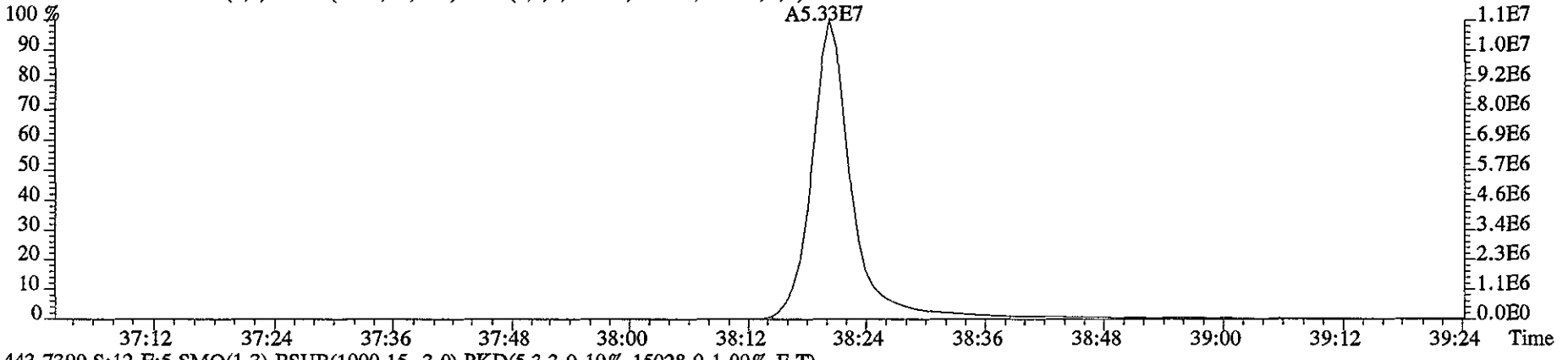
435.8169 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7592.0,1.00%,F,T)



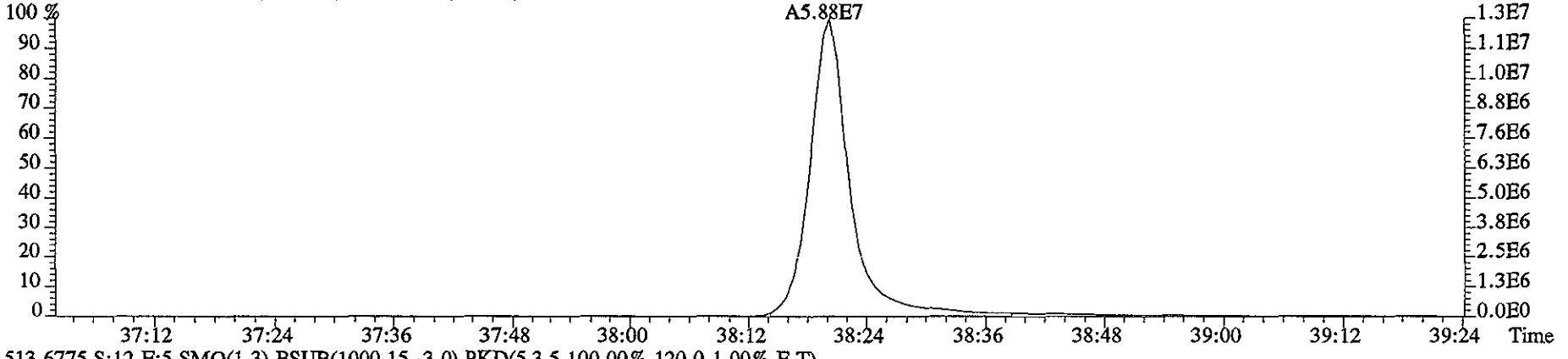
437.8140 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11012.0,1.00%,F,T)



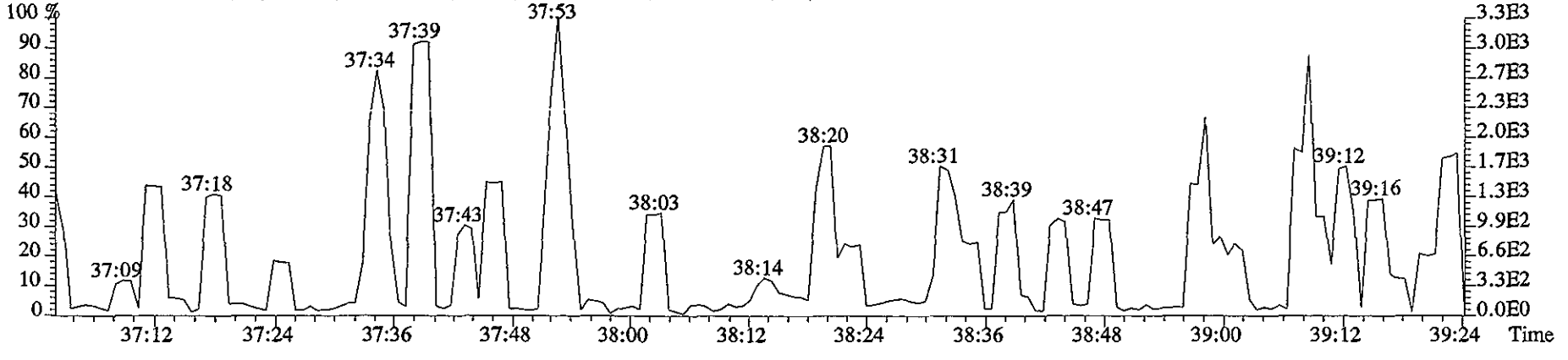
File:07DE104D5 #1-192 Acq: 7-DEC-2010 18:49:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MAVWM-1-AD :G0L020446-1DCS Exp:DIOXINRES
441.7428 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1712.0,1.00%,F,T)



443.7399 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15028.0,1.00%,F,T)

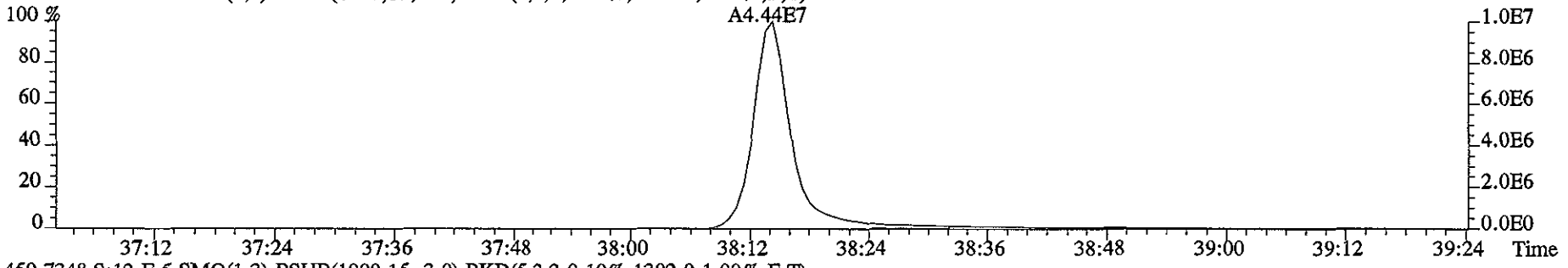


513.6775 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,120.0,1.00%,F,T)

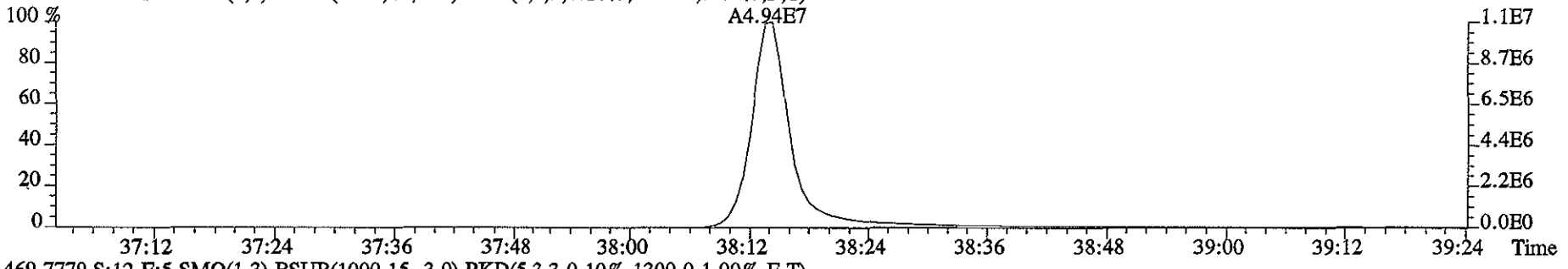


File:07DE104D5 #1-192 Acq: 7-DEC-2010 18:49:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MAVWM-1-AD :G0L020446-1DCS Exp:DIOXINRES

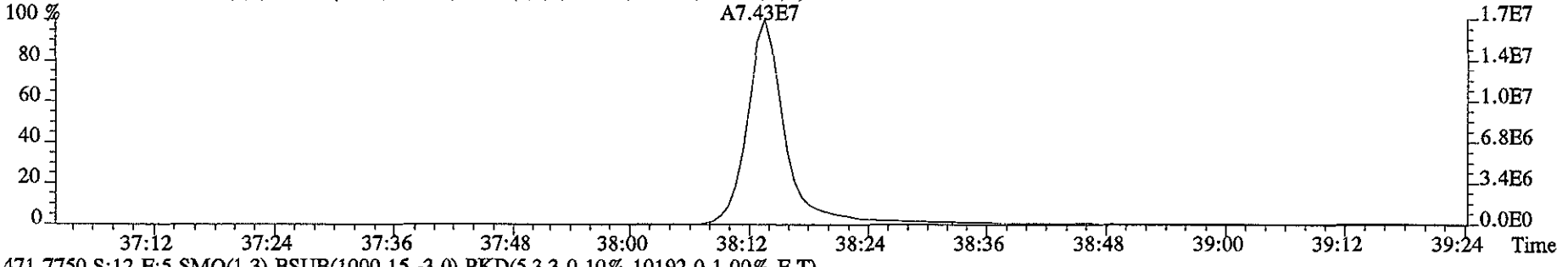
457.7377 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1384.0,1.00%,F,T)



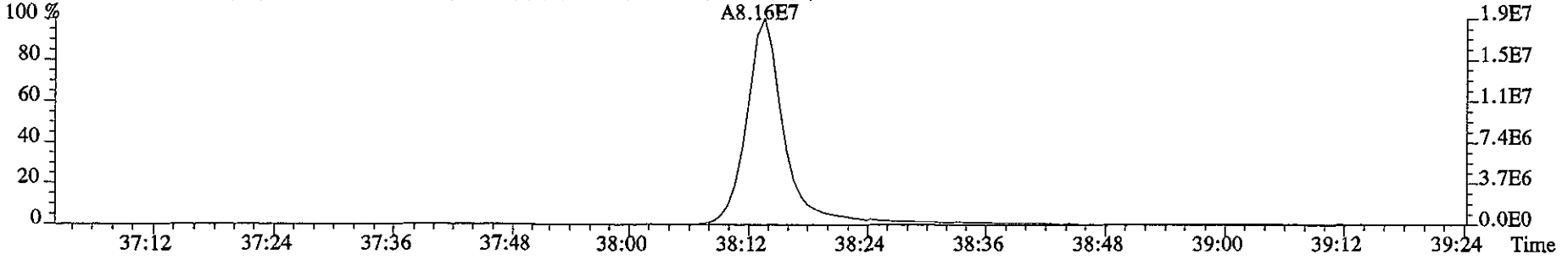
459.7348 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1392.0,1.00%,F,T)



469.7779 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1300.0,1.00%,F,T)

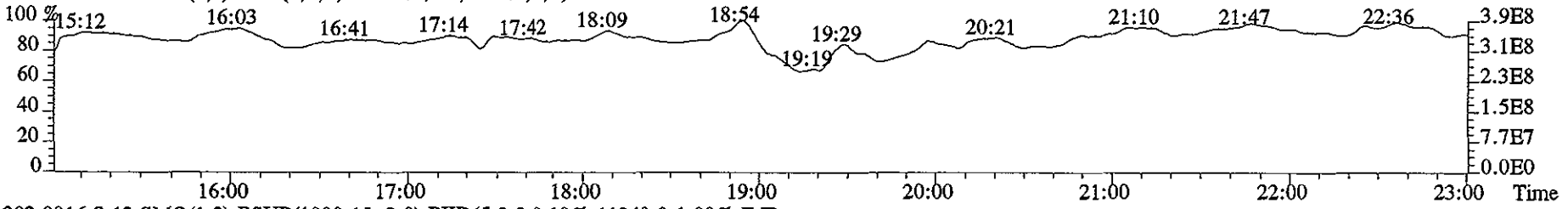


471.7750 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10192.0,1.00%,F,T)

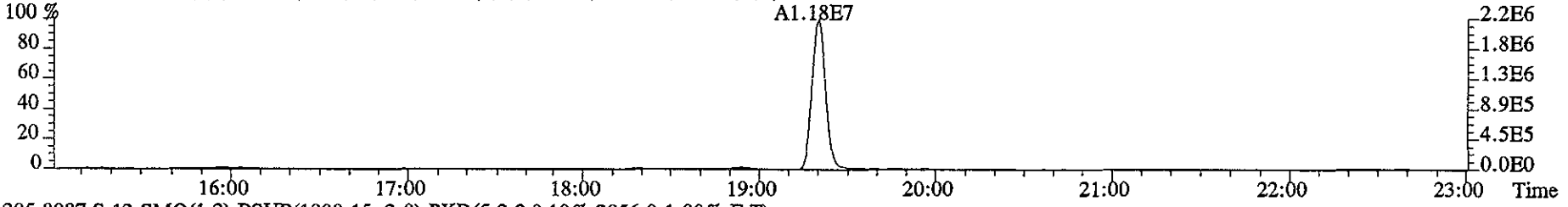


File:07DE104D5 #1-530 Acq: 7-DEC-2010 18:49:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MAVWM-1-AD :G0L020446-1DCS Exp:DIOXINRES

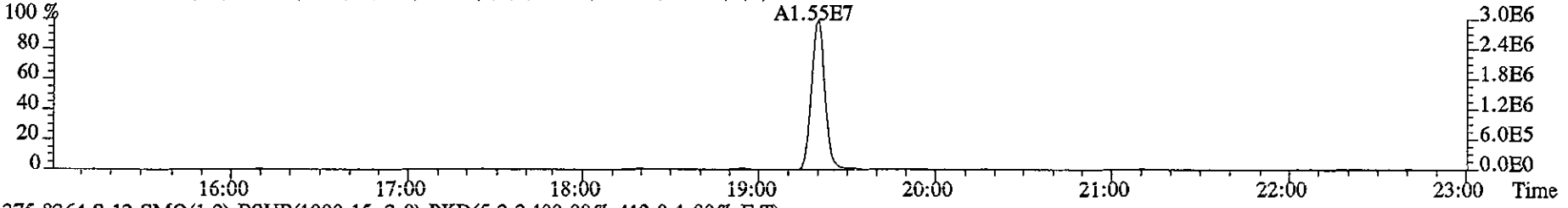
292.9825 S:12 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



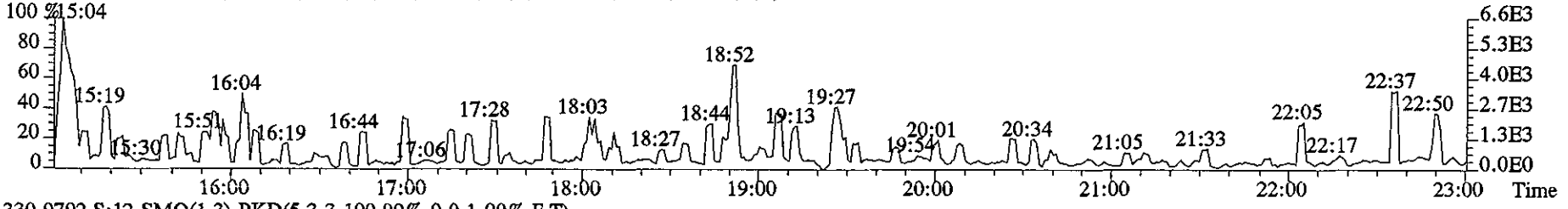
303.9016 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11348.0,1.00%,F,T)



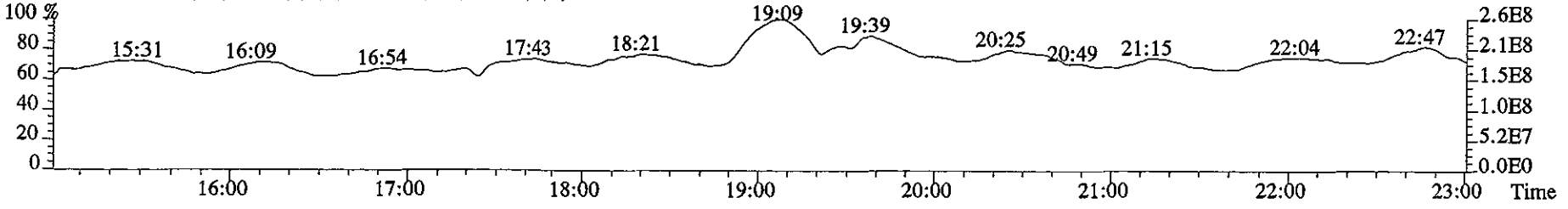
305.8987 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3856.0,1.00%,F,T)



375.8364 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,412.0,1.00%,F,T)

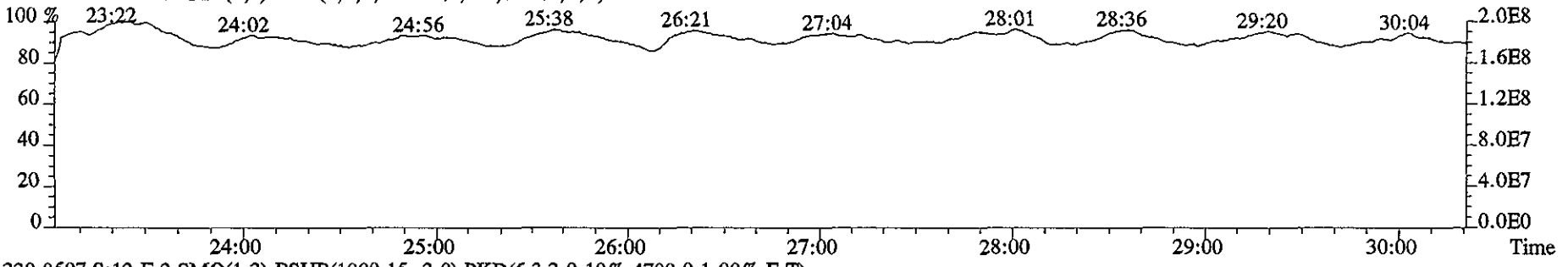


330.9792 S:12 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

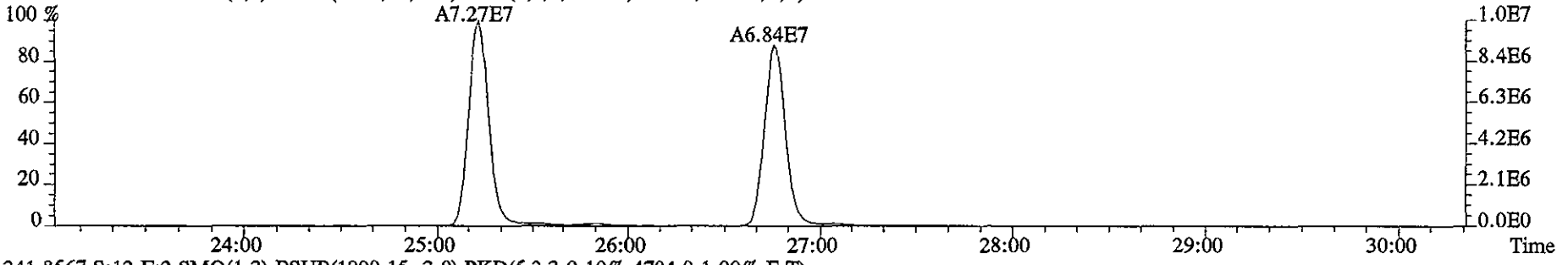


File:07DE104D5 #1-470 Acq: 7-DEC-2010 18:49:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MAVWM-1-AD :G0L020446-1DCS Exp:DIOXINRES

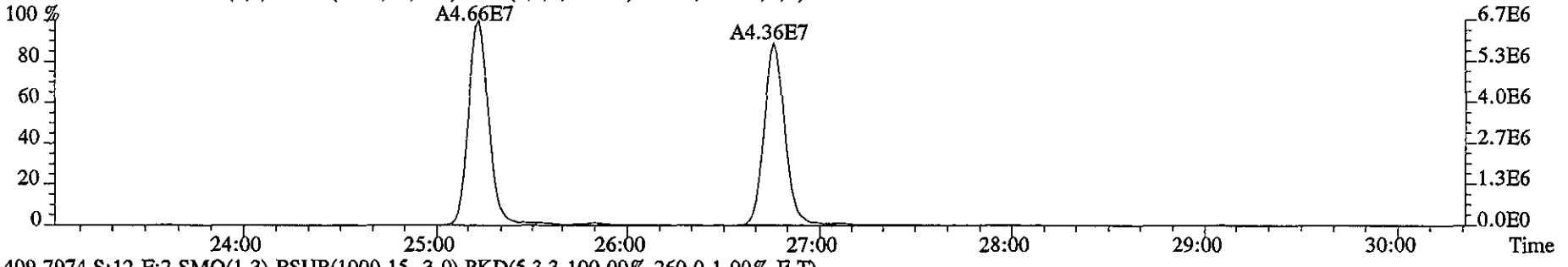
342.9792 S:12 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



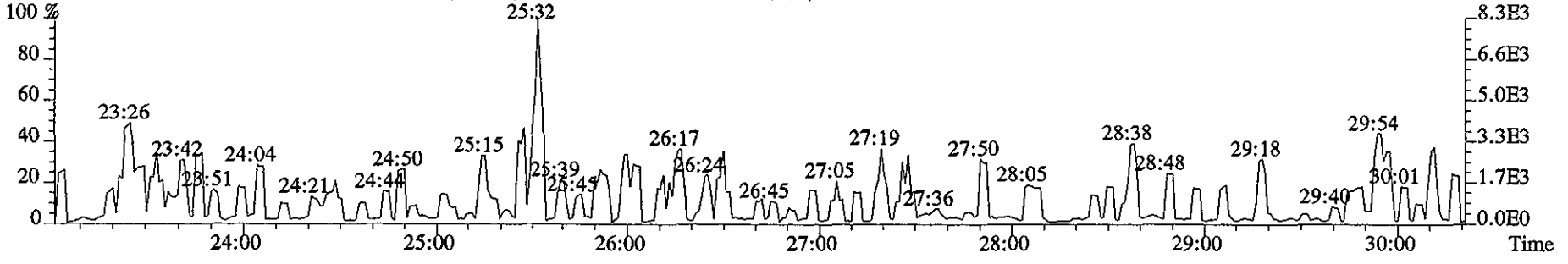
339.8597 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4700.0,1.00%,F,T)



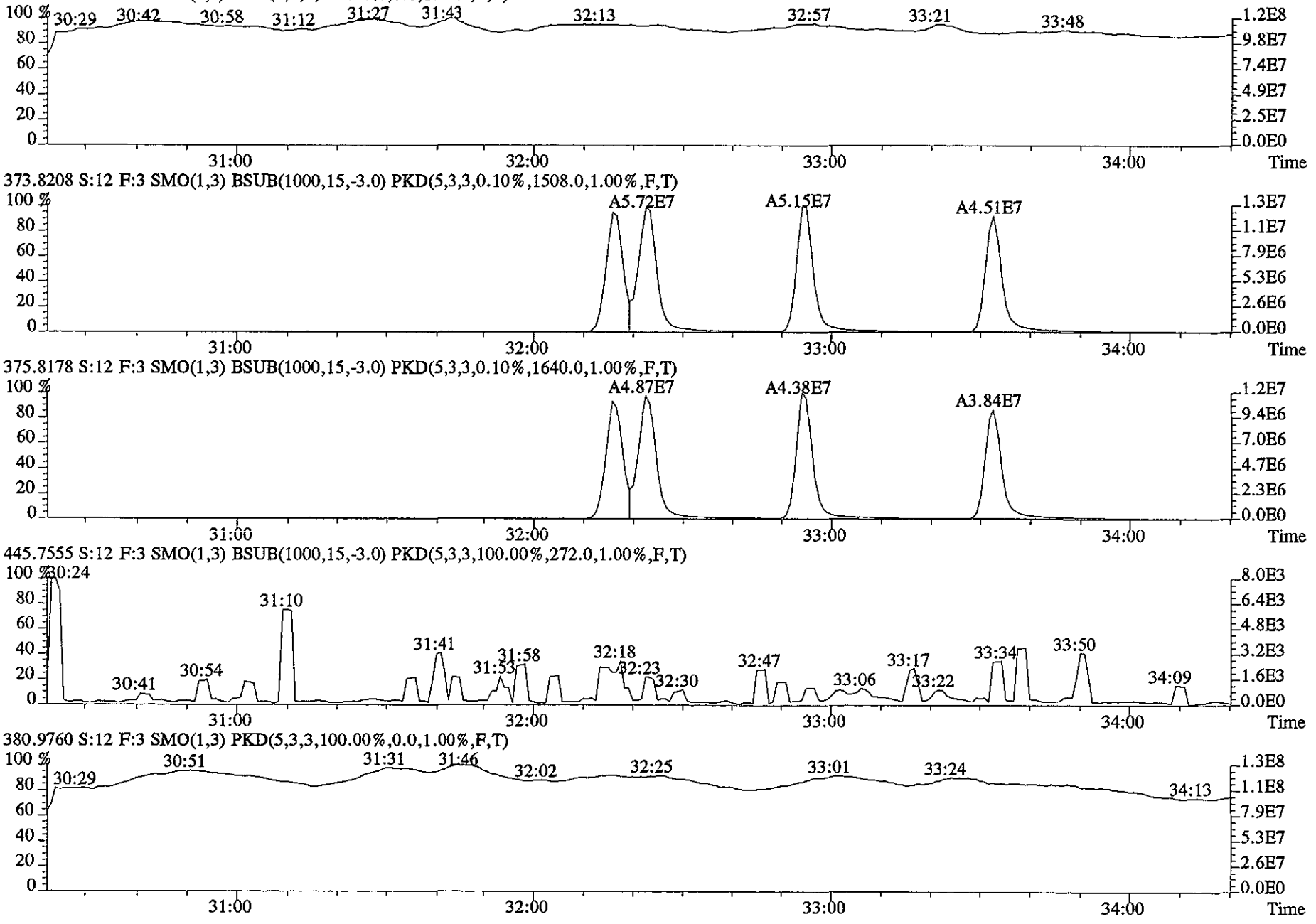
341.8567 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4704.0,1.00%,F,T)



409.7974 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,260.0,1.00%,F,T)

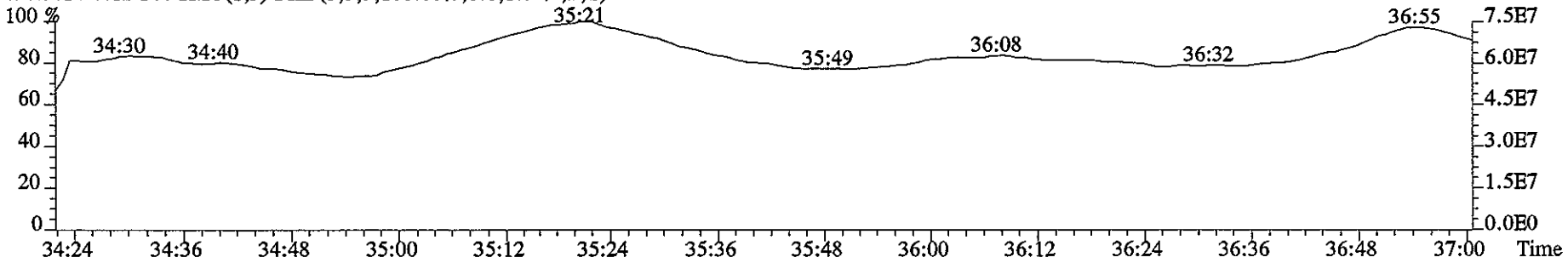


File:07DE104D5 #1-286 Acq: 7-DEC-2010 18:49:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MAVWM-1-AD :G0L020446-1DCS Exp:DIOXINRES

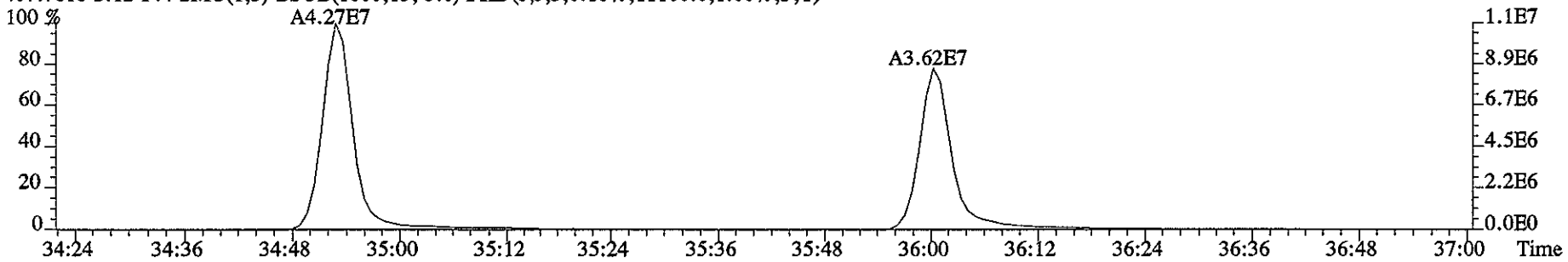


File:07DE104D5 #1-201 Acq: 7-DEC-2010 18:49:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MAVWM-1-AD :G0L020446-1DCS Exp:DIOXINRES

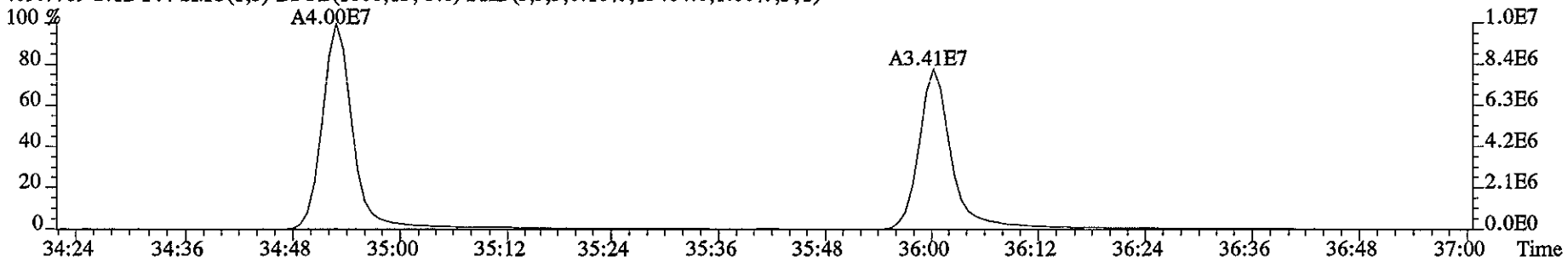
430.9728 S:12 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



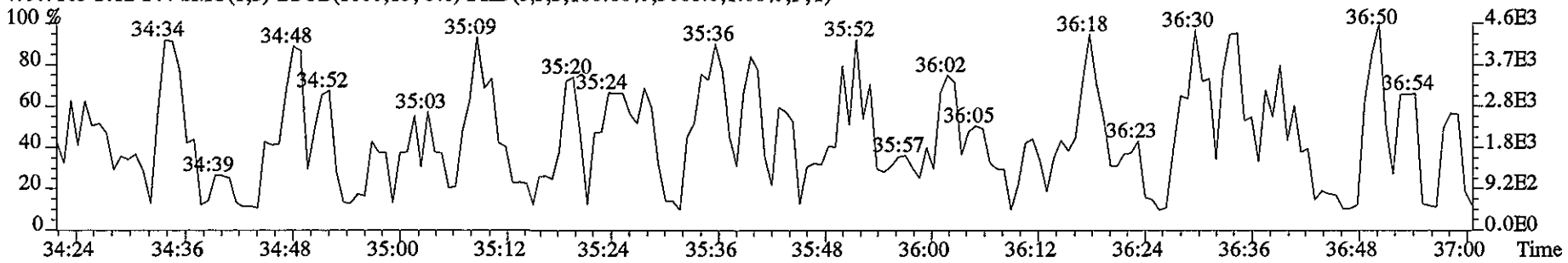
407.7818 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11100.0,1.00%,F,T)



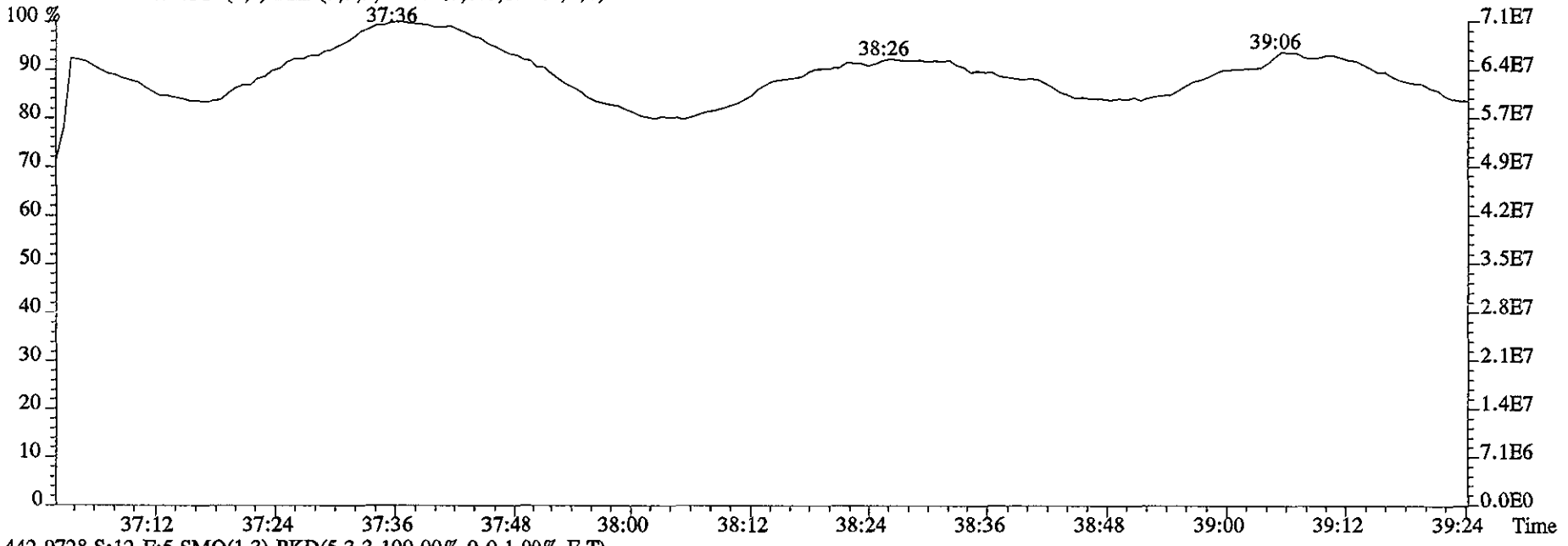
409.7789 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13484.0,1.00%,F,T)



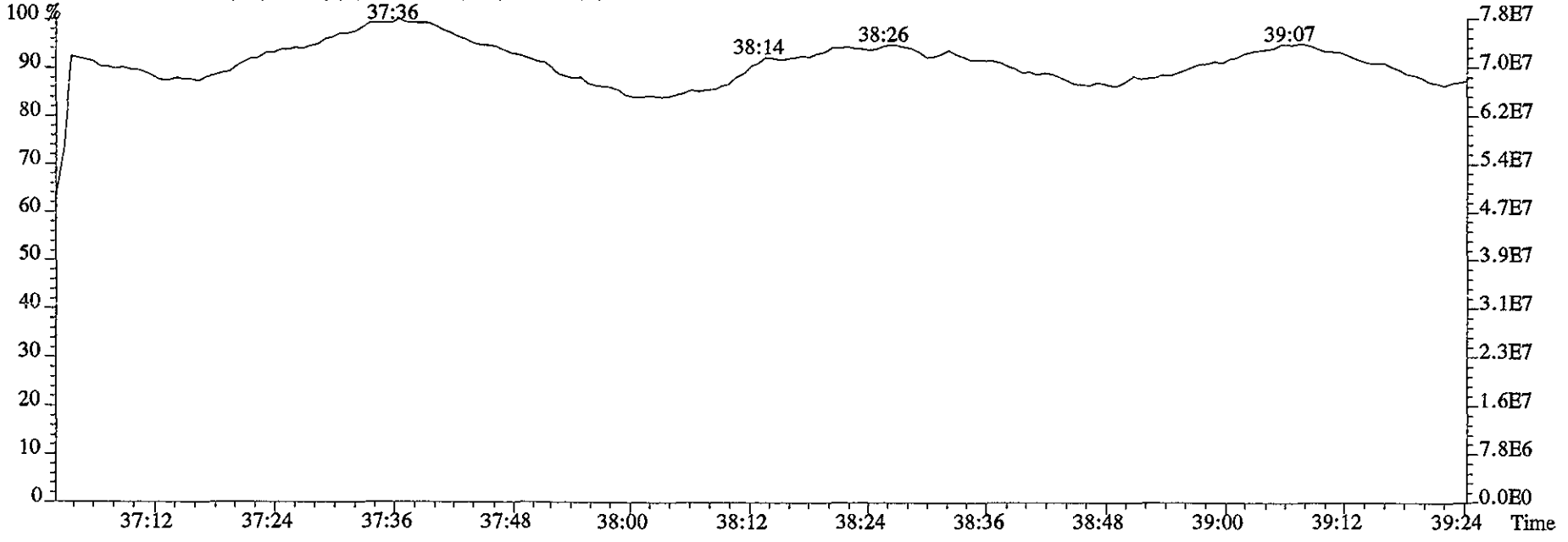
479.7165 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,3068.0,1.00%,F,T)



File:07DE104D5 #1-192 Acq: 7-DEC-2010 18:49:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:MAVWM-1-AD :G0L020446-1DCS 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: MAQQV-1-AA Sample text: MAQQV-1-AA :G0L020446-1
Run #14 Filename: 07DE104D5 S: 17 I: 1 Results: 07DE104D5TO9
Acquired: 7-DEC-10 22:32:36 Processed: 8-DEC-10 07:53:23
Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5
Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP 12/8/10 MC

Name	Resp	RA		RT	RRF	Conc		EDL	Rec	M
13C-1,2,3,4-TCDD	234024000	0.80	y	19:55	-	140.138		-	-	n
13C-2,3,7,8-TCDF	270061000	0.80	y	19:19	1.23	3754.814		~~3.252~~	93.9	n
2,3,7,8-TCDF	246414	0.90	n	19:21	0.99	~~3.670~~		3.930	-	n
Total TCDF	529309	0.69	y	17:26	0.99	7.883		3.930	-	n
13C-2,3,7,8-TCDD	210367500	0.80	y	20:08	0.91	3972.858		~~8.204~~	99.3	n
2,3,7,8-TCDD	*	*	n	NotFnd	0.98	*		2.572	-	n
Total TCDD	*	*	n	NotFnd	0.98	*		2.572	-	n
37Cl-2,3,7,8-TCDD	112756600	1.00	y	20:09	1.33	1616.802		2.315	101.1	n
13C-1,2,3,7,8-PeCDF	200921200	1.57	y	25:11	0.88	3920.095		~~5.741~~	98.0	n
1,2,3,7,8-PeCDF	*	*	n	NotFnd	1.08	*		4.085	-	n
2,3,4,7,8-PeCDF	*	*	n	NotFnd	1.05	*		4.206	-	n
Total F2 PeCDF	199204	1.28	n	23:36	1.06	~~3.737~~		~~4.145~~	-	n
Total F1 PeCDF	49258	0.60	n	21:47	1.06	0.~~924~~		2.610	-	n
								4.206		
13C-1,2,3,7,8-PeCDD	133653100	1.64	y	27:35	0.66	3456.944		~~4.642~~	86.4	n
1,2,3,7,8-PeCDD	*	*	n	NotFnd	0.93	*		5.853	-	n
Total PeCDD	*	*	n	NotFnd	0.93	*		5.853	-	n
13C-1,2,3,7,8,9-HxCDD	127143600	1.29	y	33:21	-	107.385		-	-	n
13C-1,2,3,4,7,8-HxCDF	105737200	0.51	y	32:15	1.04	3183.947		12.817	79.6	n
1,2,3,4,7,8-HxCDF	198459	1.15	y	32:15	1.22	6.168	J	1.797	-	n
1,2,3,6,7,8-HxCDF	120100	1.56	n	32:23	~~1.28~~ 1.54	3.~~545~~ JQ 2.921	✓ JQ	1.706	-	n
2,3,4,6,7,8-HxCDF	*	*	n	NotFnd	1.23	*		1.773	-	n
1,2,3,7,8,9-HxCDF	33797	1.52	n	33:35	1.10	1.~~164~~	✓	1.991	-	n
Total HxCDF	763495	1.10	y	30:59	1.21	23.~~756~~		1.811	-	n
					12/8/10 MC	17.564 ✓	~~18.182~~ ✓			
13C-1,2,3,6,7,8-HxCDD	101805500	1.29	y	33:06	0.83	3855.183		~~3.749~~	96.4	n
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	1.04	*		2.707	-	n
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.16	*		2.415	-	n
1,2,3,7,8,9-HxCDD	*	*	n	NotFnd	1.18	*		2.376	-	n
Total HxCDD	*	*	n	NotFnd	1.13	*		~~2.491~~	-	n
								2.707		
13C-1,2,3,4,6,7,8-HpCDF	94933900	0.45	y	34:51	0.91	3281.971		20.621	82.0	n
1,2,3,4,6,7,8-HpCDF	464924	1.40	n	34:51	1.35	14.556	JQB	1.904	-	n
1,2,3,4,7,8,9-HpCDF	120428	0.95	y	36:00	1.09	4.641	J	2.343	-	n
Total HpCDF	857400	1.40	n	34:51	1.22	28.595	✓	2.101	-	n
13C-1,2,3,4,6,7,8-HpCDD	88203400	1.06	y	35:40	0.83	3357.008		12.905	83.9	n
1,2,3,4,6,7,8-HpCDD	60859	0.68	n	35:40	1.07	2.~~575~~		5.155	-	n
Total HpCDD	189784	0.73	n	35:06	1.07	8.~~031~~		5.155	-	n
13C-OCDD	129466700	0.91	y	38:12	0.62	6570.572		7.377	82.1	n
OCDF	1578861	0.90	y	38:21	1.37	71.197	J	3.735	-	n

OCDD	364594	1.07	n	38:13	1.20		18.785	JOB	3.409	-	n

Run Text: MAQQV-1-AA Sample text: MAQQV-1-AA :G0L020446-1

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:1
Run: 14 File: 07DE104D5 S:17 Acq: 7-DEC-10 22:32:36
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

Amount:	0.462	of which	* named and	0.462	unnamed
Conc:	0.924	of which	* named and	0.924	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	21:47	0.598	n	0.924	29941	1.760	n	n
						50052	2.435	n	n

Run Text: MAQQV-1-AA Sample text: MAQQV-1-AA :G0L020446-1

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:0
Run: 14 File: 07DE104D5 S:17 Acq: 7-DEC-10 22:32:36
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

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: MAQQV-1-AA Sample text: MAQQV-1-AA :G0L020446-1

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:9
Run: 14 File: 07DE104D5 S:17 Acq: 7-DEC-10 22:32:36
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

Amount: 11.878 of which 5.438 named and 6.440 unnamed
Conc: 23.756 of which 10.877 named and 12.879 unnamed

(123678 HxCDF / RRF)

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	30:59	1.100	y	3.025	50595	3.581	y	n
						45980	5.155	y	n
	2	31:14	0.889	n	5.444	96207	7.109	y	n
						108241	10.502	y	n
	3	31:50	1.070	y	1.691	27903	2.292	n	n
						26076	2.040	n	n
1,2,3,4,7,8-HxCDF	4	32:15	1.153	y	6.168	106274	7.793	y	n
						92185	10.229	y	n
						= 2.927			
1,2,3,6,7,8-HxCDF	5	32:23	1.555	n	3.545 *	83374	7.416	y	n
						53616	6.742	y	n
	6	32:39	1.461	n	1.201	25019	1.983	n	n
						17122	2.737	n	n
	7	32:50	1.633	n	0.791	18404	1.810	n	n
						11272	1.361	n	n
	8	33:31	0.851	n	0.726	12835	1.553	n	n
						15088	1.551	n	n
1,2,3,7,8,9-HxCDF	9	33:35	1.516	n	1.164	22868	2.159	n	n
						15088	1.551	n	n

18.182
= 12.564

Run Text: MAQQV-1-AA Sample text: MAQQV-1-AA :G0L020446-1

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:0
Run: 14 File: 07DE104D5 S:17 Acq: 7-DEC-10 22:32:36
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

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: MAQQV-1-AA Sample text: MAQQV-1-AA :G0L020446-1

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4
Run: 14 File: 07DE104D5 S:17 Acq: 7-DEC-10 22:32:36
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

Amount:	14.298 of which	9.598 named and	4.699	unnamed
Conc:	28.595 of which	19.197 named and	9.399	unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	34:51	1.395 n	14.556	318003	26.442	y	n
					227904	27.041	y	n
	2	35:04	1.191 y	4.366	68692	5.102	y	n
					57671	6.052	y	n
	3	35:11	1.461 n	5.033	104347	7.543	y	n
					71414	8.759	y	n
1,2,3,4,7,8,9-HpCDF	4	36:00	0.946 y	4.641	58553	3.962	y	n
					61875	7.709	y	n

Run Text: MAQQV-1-AA Sample text: MAQQV-1-AA :G0L020446-1

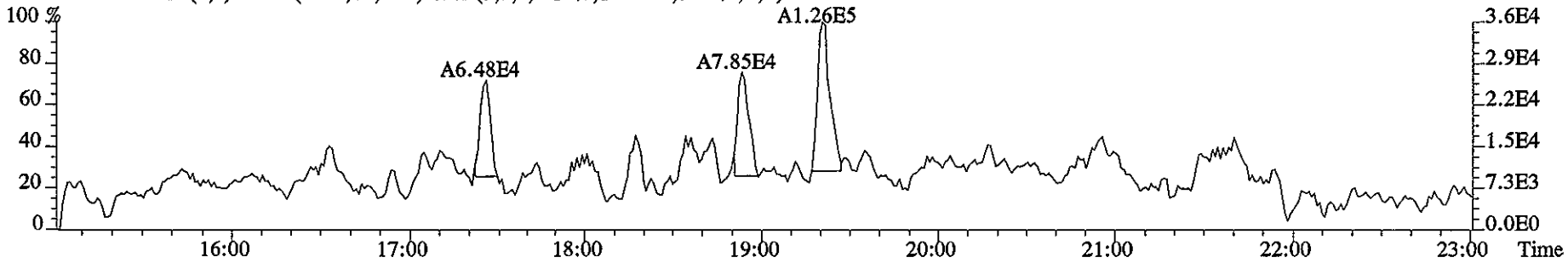
Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:3
Run: 14 File: 07DE104D5 S:17 Acq: 7-DEC-10 22:32:36
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

Amount:	4.015 of which	1.288 named and	2.728	unnamed
Conc:	8.031 of which	2.575 named and	5.456	unnamed

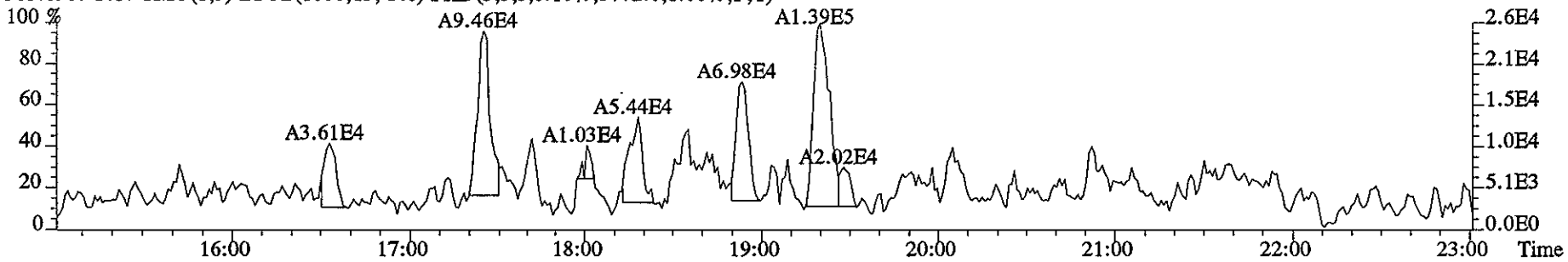
Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	35:06	0.726 n	4.155	50056	2.122	n	n
					68906	4.371	y	n
1,2,3,4,6,7,8-HpCDD	2	35:40	0.682 n	2.575	31026	1.557	n	n
					45475	2.460	n	n
	3	36:00	2.960 n	1.301	44594	2.558	n	n
					15068	1.304	n	n

LEpe

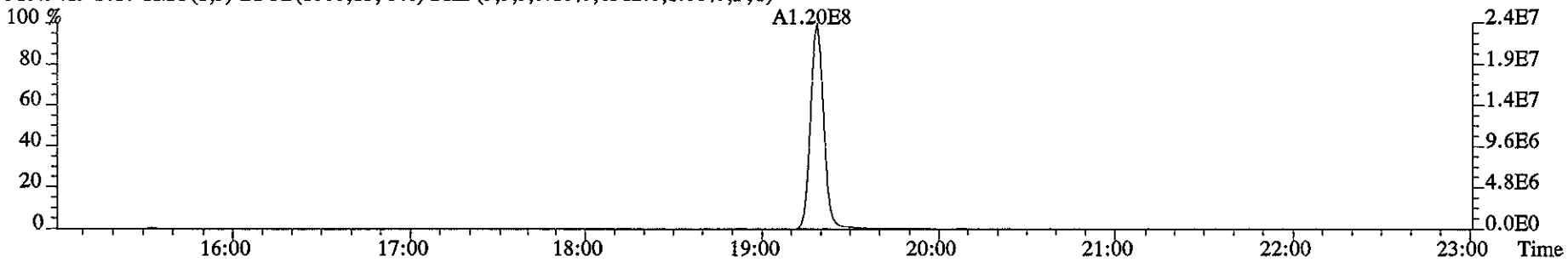
File:07DE104D5 #1-530 Acq: 7-DEC-2010 22:32:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#17 Text:MAQQV-1-AA :G0L020446-1 Exp:DIOXINRES
303.9016 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11884.0,1.00%,F,T)



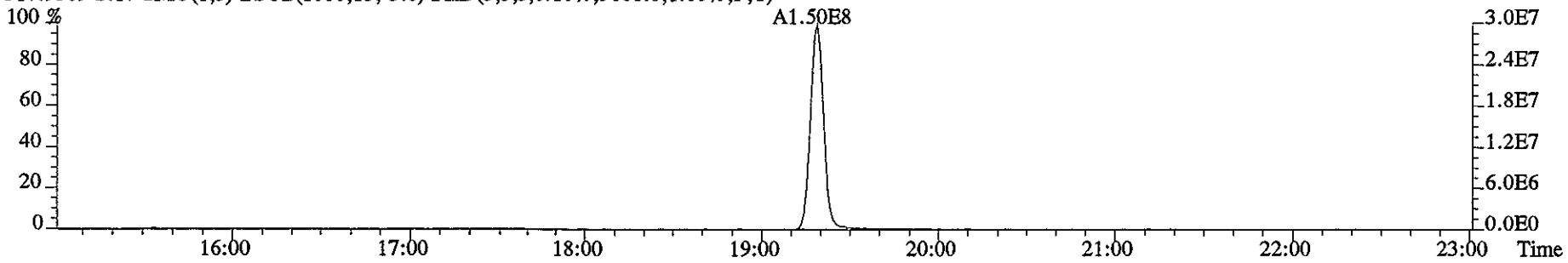
305.8987 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5772.0,1.00%,F,T)



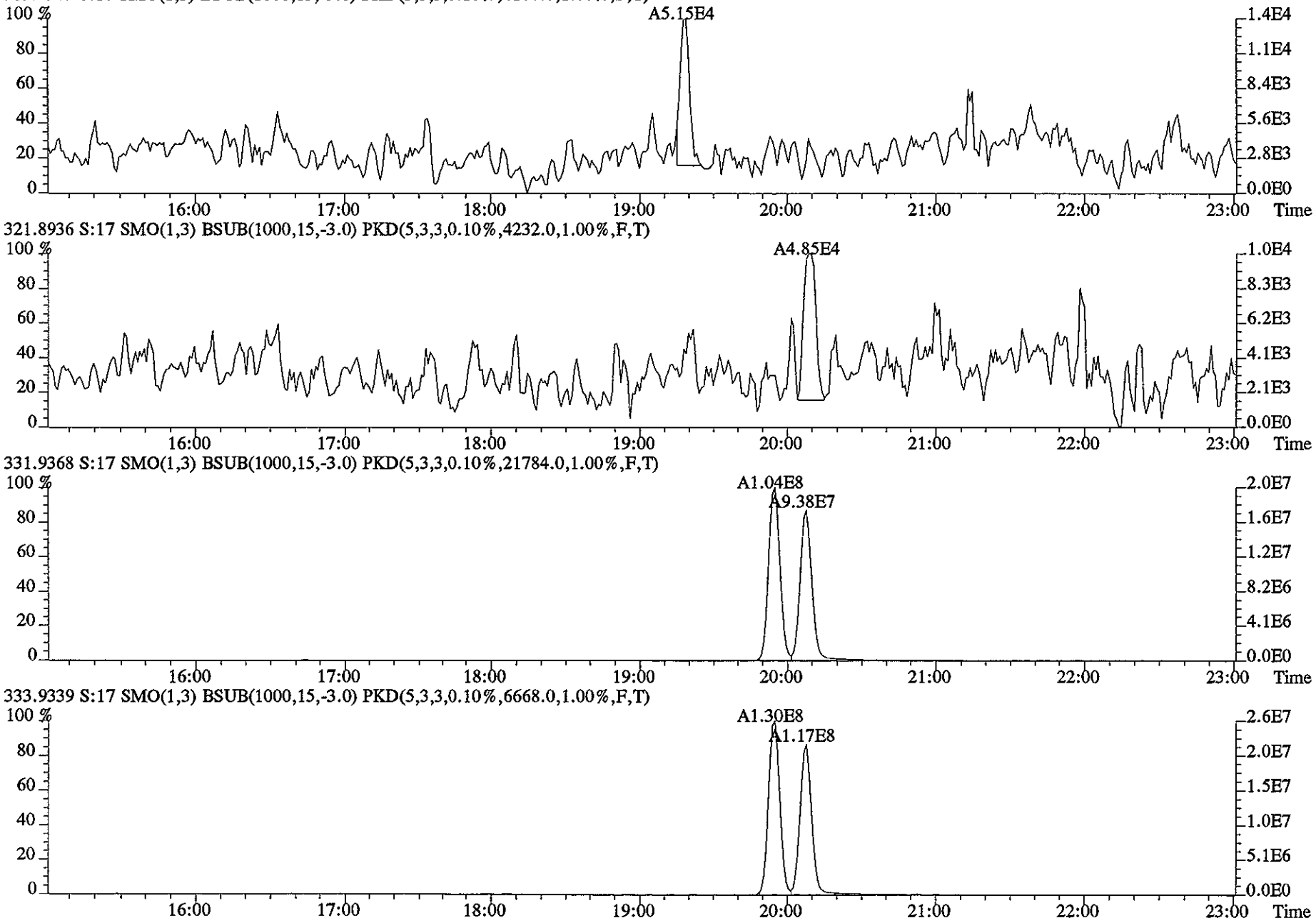
315.9419 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6312.0,1.00%,F,T)



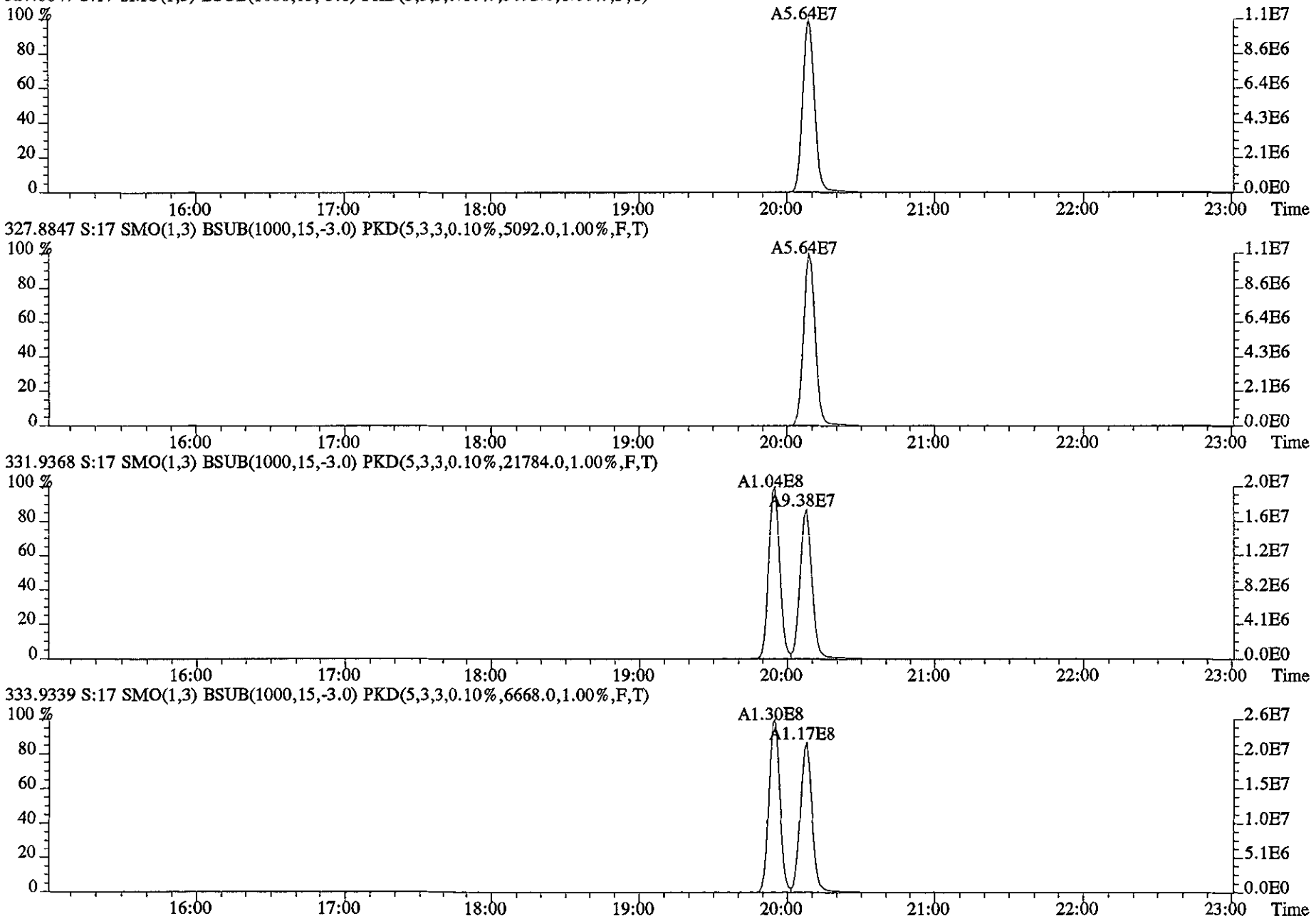
317.9389 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9008.0,1.00%,F,T)



File:07DE104D5 #1-530 Acq: 7-DEC-2010 22:32:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#17 Text:MAQQV-1-AA :G0L020446-1 Exp:DIOXINRES

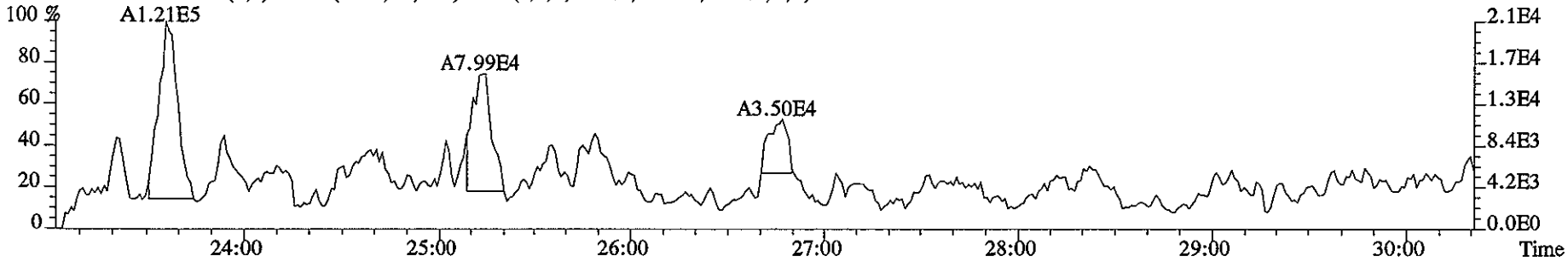


File:07DE104D5 #1-530 Acq: 7-DEC-2010 22:32:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#17 Text:MAQQV-1-AA :G0L020446-1 Exp:DIOXINRES

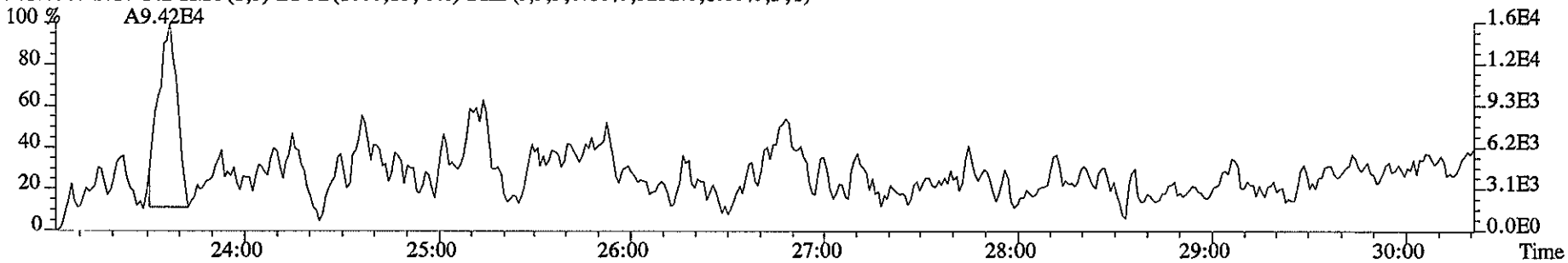


File:07DE104D5 #1-470 Acq: 7-DEC-2010 22:32:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#17 Text:MAQQV-1-AA :G0L020446-1 Exp:DIOXINRES

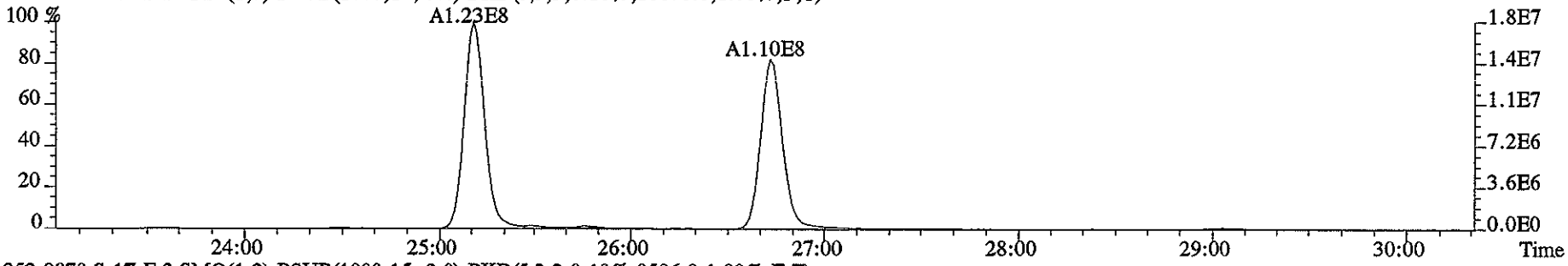
339.8597 S:17 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5408.0,1.00%,F,T)



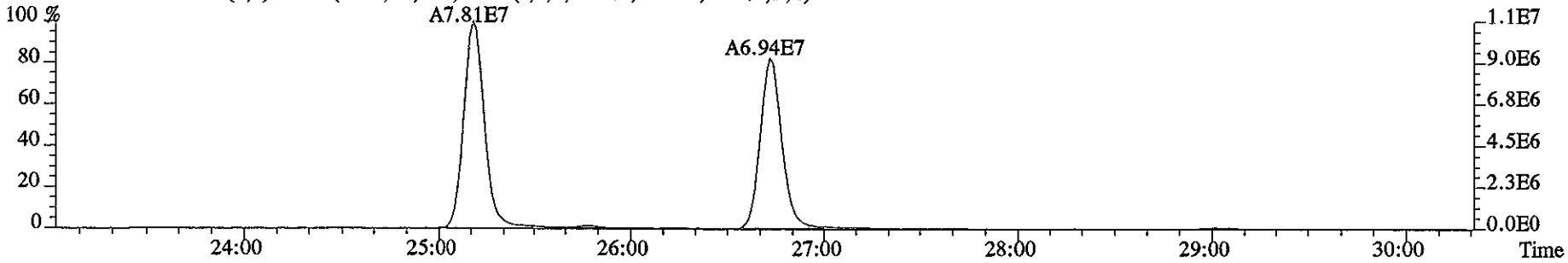
341.8567 S:17 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5252.0,1.00%,F,T)



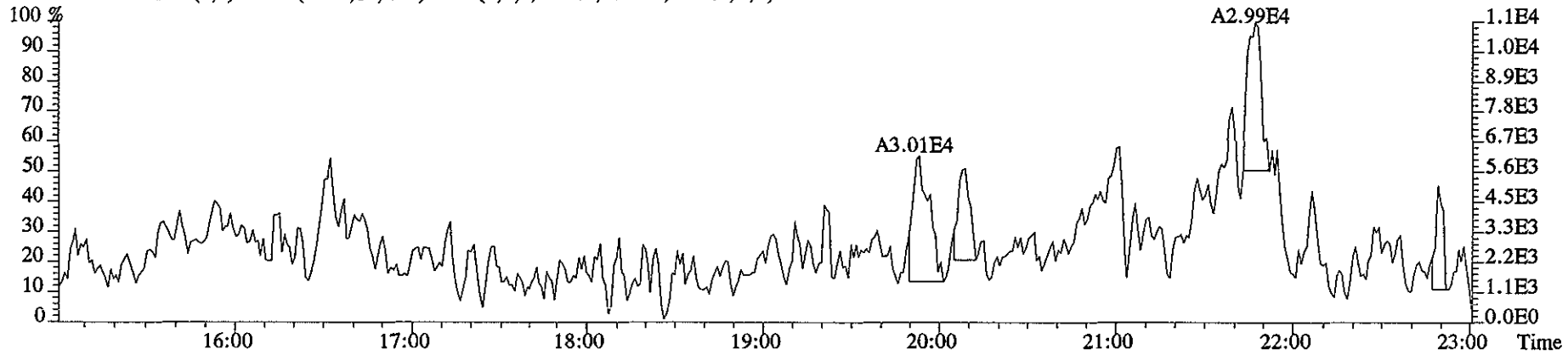
351.9000 S:17 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10676.0,1.00%,F,T)



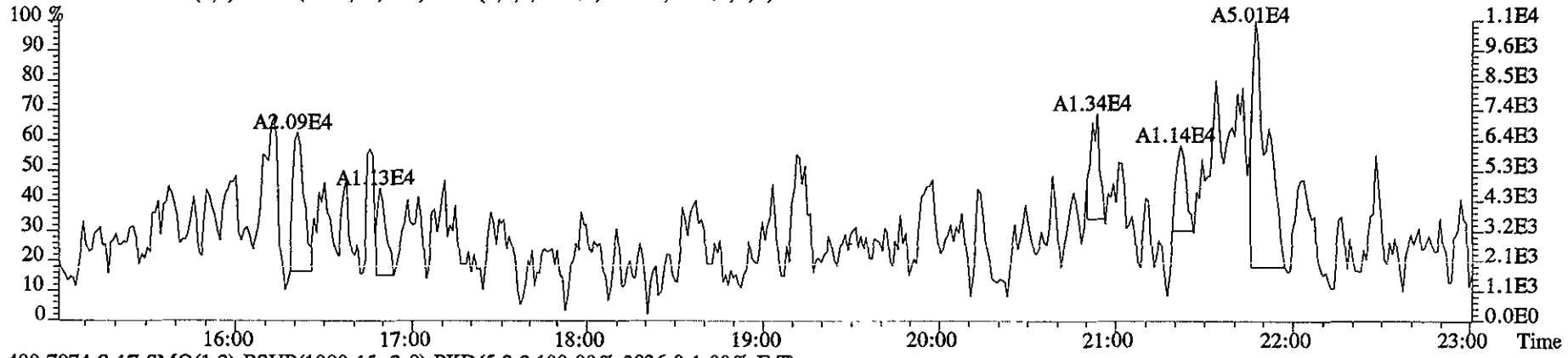
353.8970 S:17 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8596.0,1.00%,F,T)



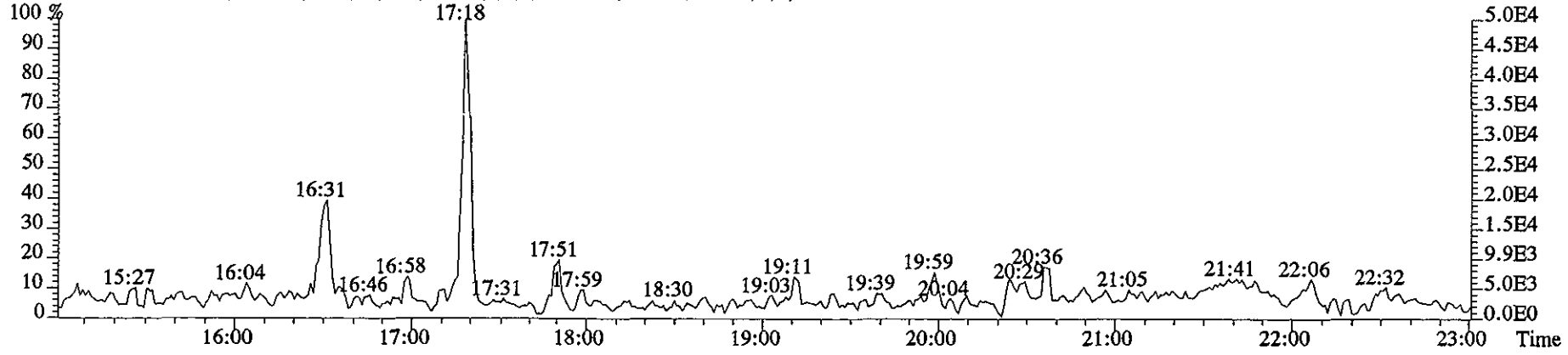
File:07DE104D5 #1-530 Acq: 7-DEC-2010 22:32:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#17 Text:MAQQV-1-AA :G0L020446-1 Exp:DIOXINRES
339.8597 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3132.0,1.00%,F,T)



341.8567 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3580.0,1.00%,F,T)

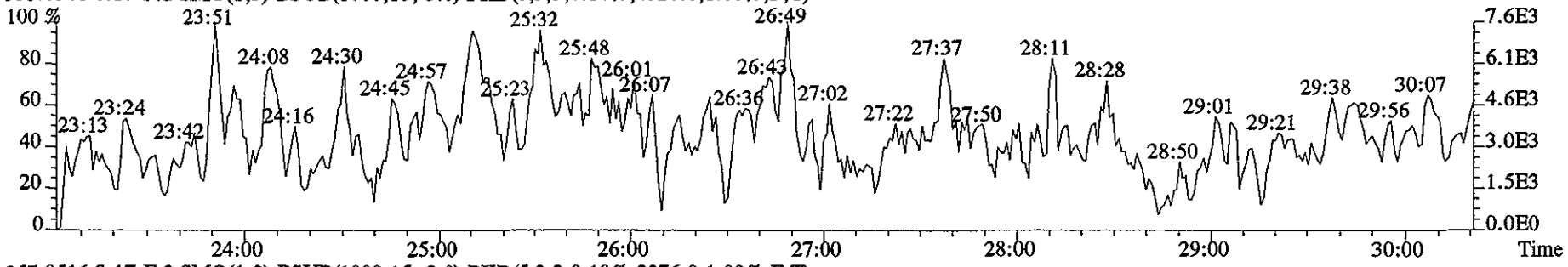


409.7974 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,3936.0,1.00%,F,T)

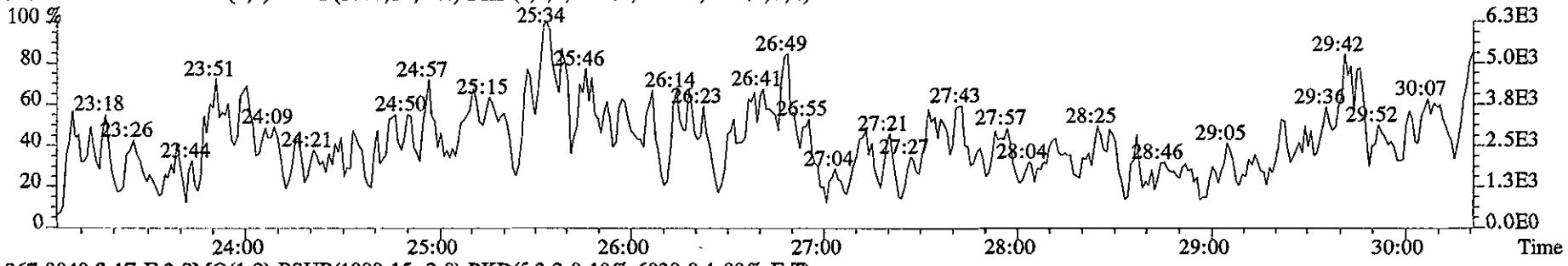


File:07DE104D5 #1-470 Acq: 7-DEC-2010 22:32:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#17 Text:MAQQV-1-AA :G0L020446-1 Exp:DIOXINRES

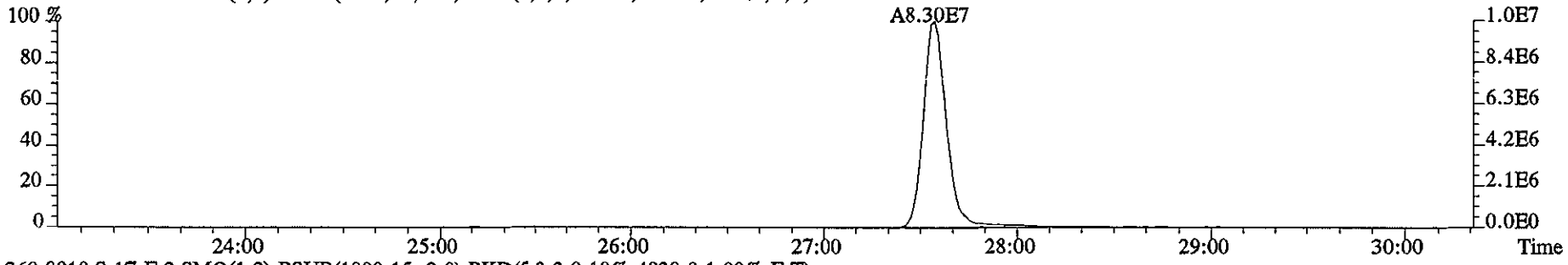
355.8546 S:17 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4328.0,1.00%,F,T)



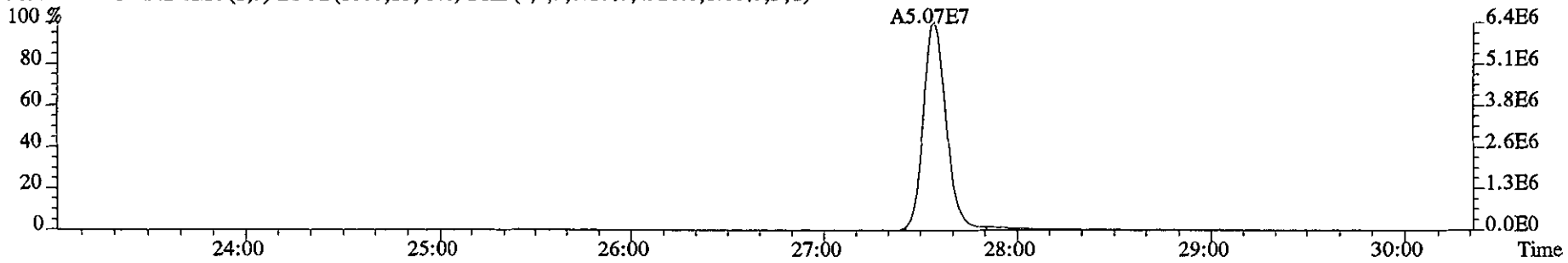
357.8516 S:17 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3276.0,1.00%,F,T)



367.8949 S:17 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6828.0,1.00%,F,T)

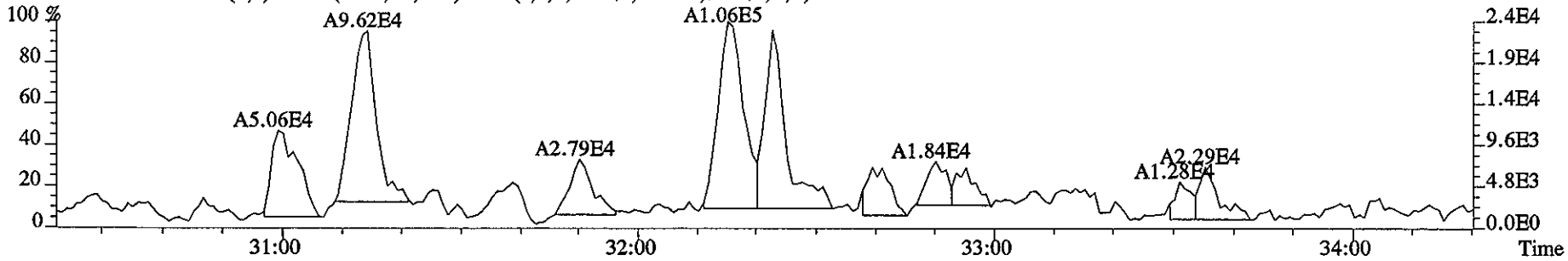


369.8919 S:17 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4928.0,1.00%,F,T)

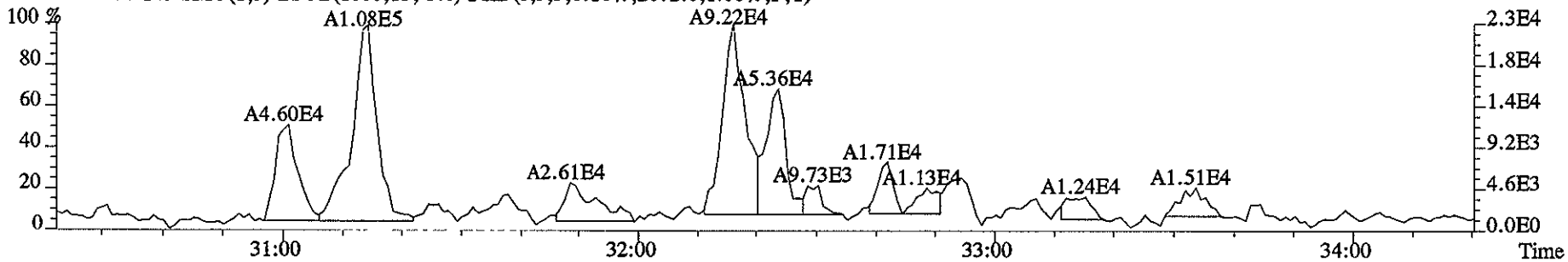


File:07DE104D5 #1-286 Acq: 7-DEC-2010 22:32:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#17 Text:MAQQV-1-AA :G0L020446-1 Exp:DIOXINRES

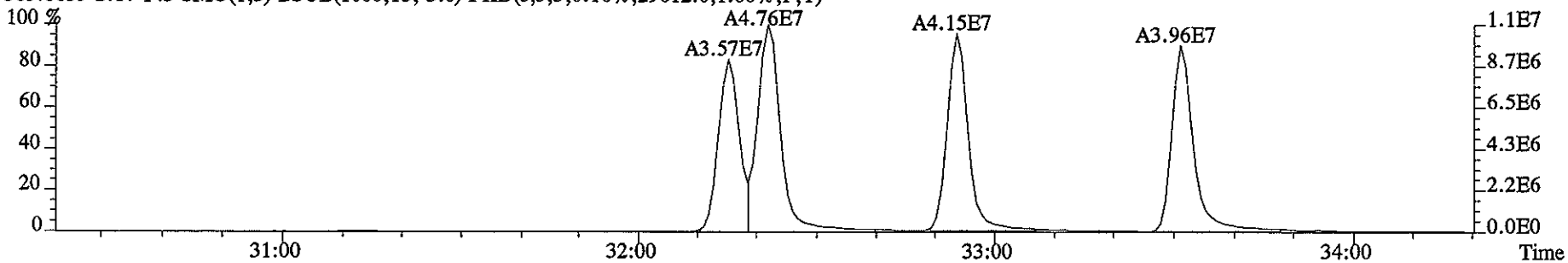
373.8208 S:17 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2796.0,1.00%,F,T)



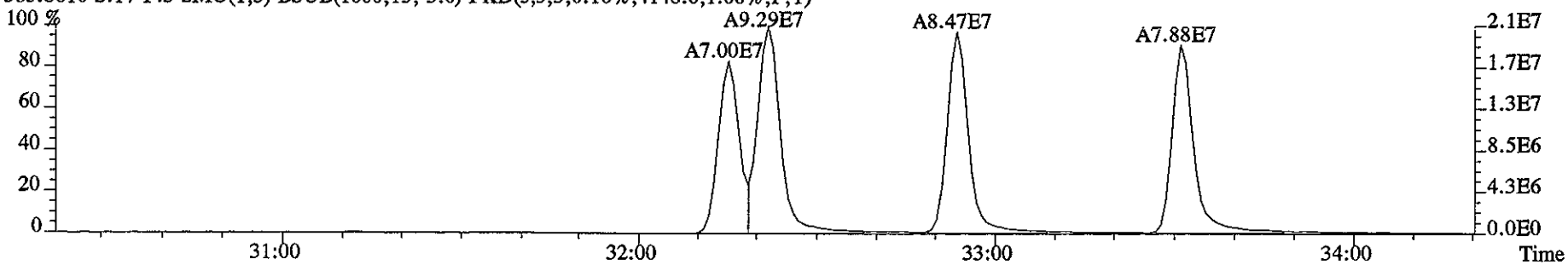
375.8178 S:17 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2072.0,1.00%,F,T)



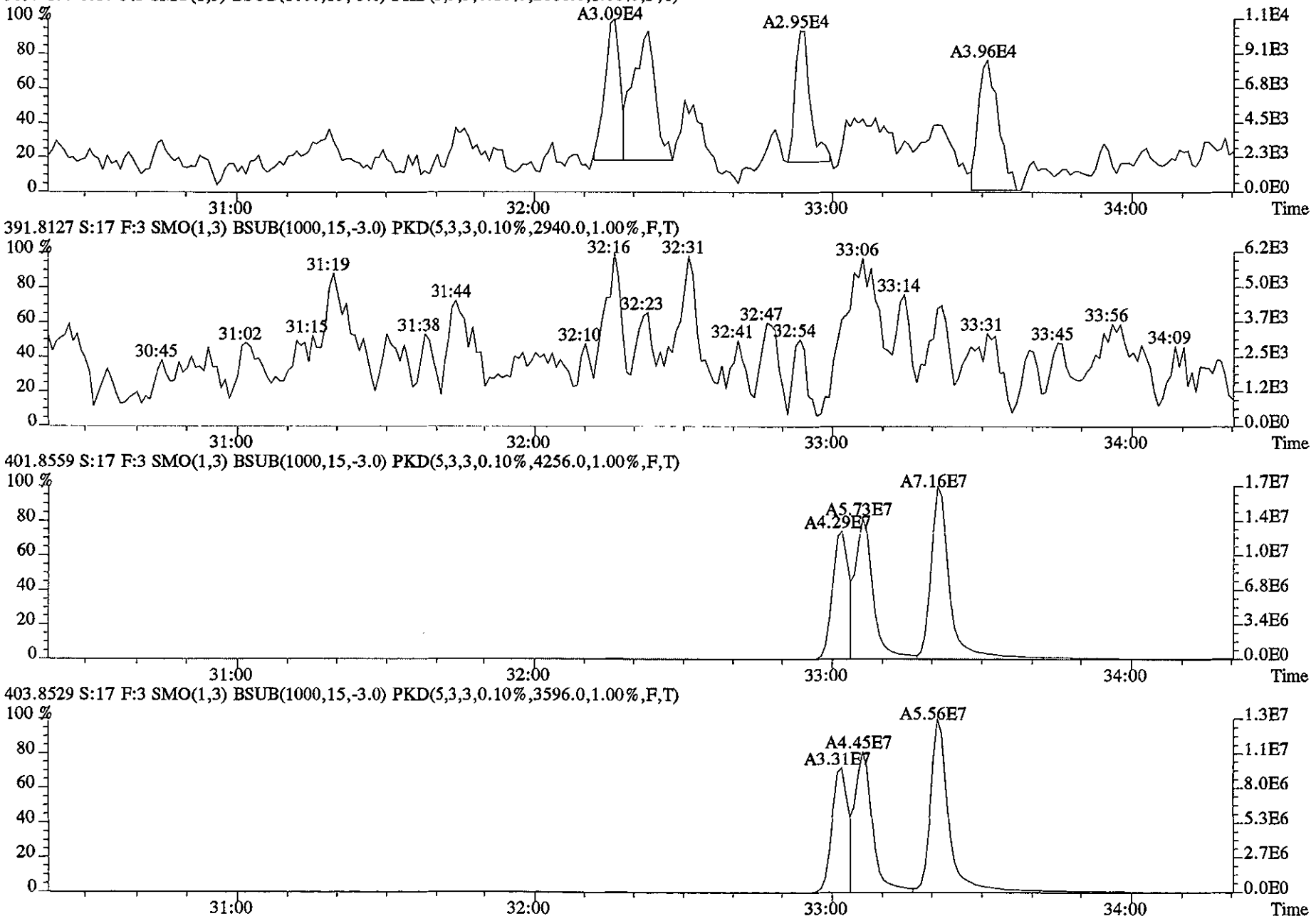
383.8639 S:17 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,29612.0,1.00%,F,T)



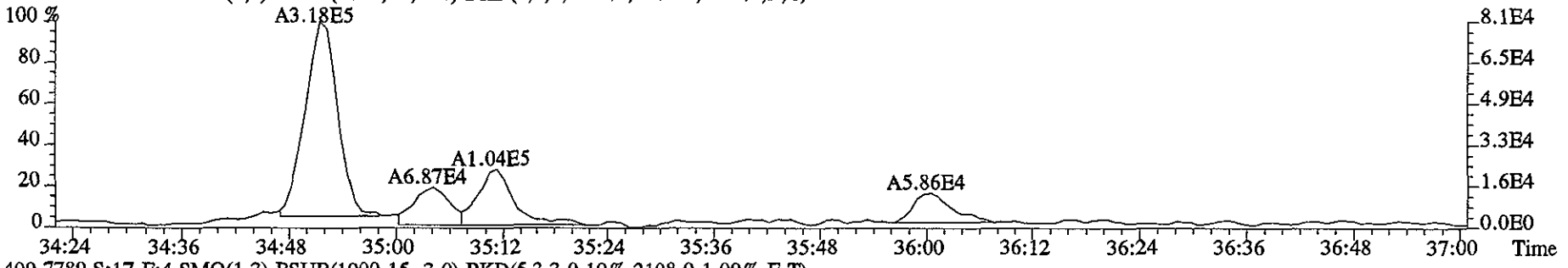
385.8610 S:17 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4148.0,1.00%,F,T)



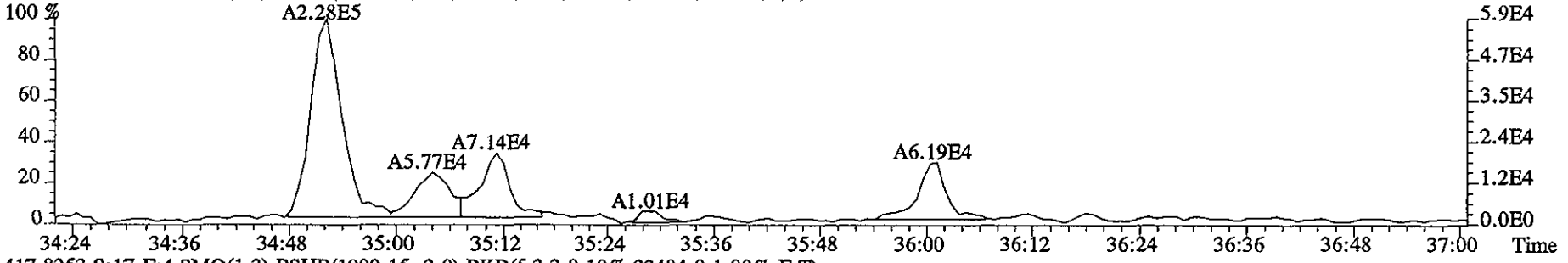
File:07DE104D5 #1-286 Acq: 7-DEC-2010 22:32:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#17 Text:MAQQV-1-AA :G0L020446-1 Exp:DIOXINRES



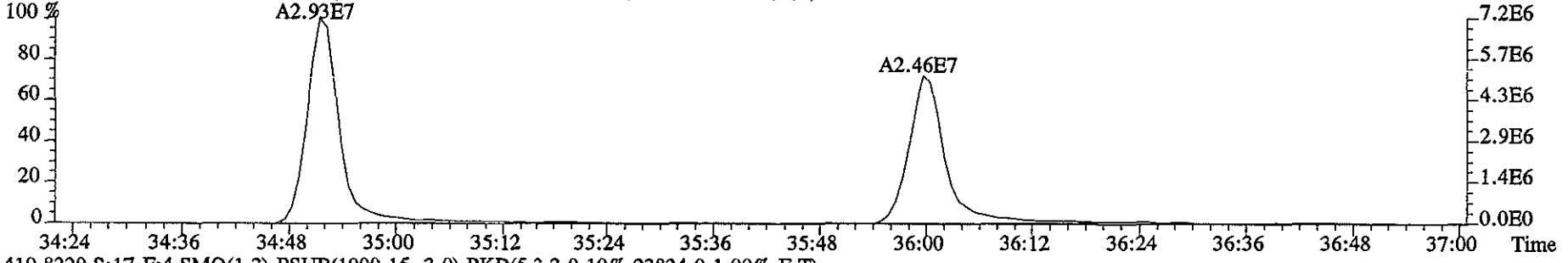
File:07DE104D5 #1-201 Acq: 7-DEC-2010 22:32:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#17 Text:MAQQV-1-AA :G0L020446-1 Exp:DIOXINRES
407.7818 S:17 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2900.0,1.00%,F,T)



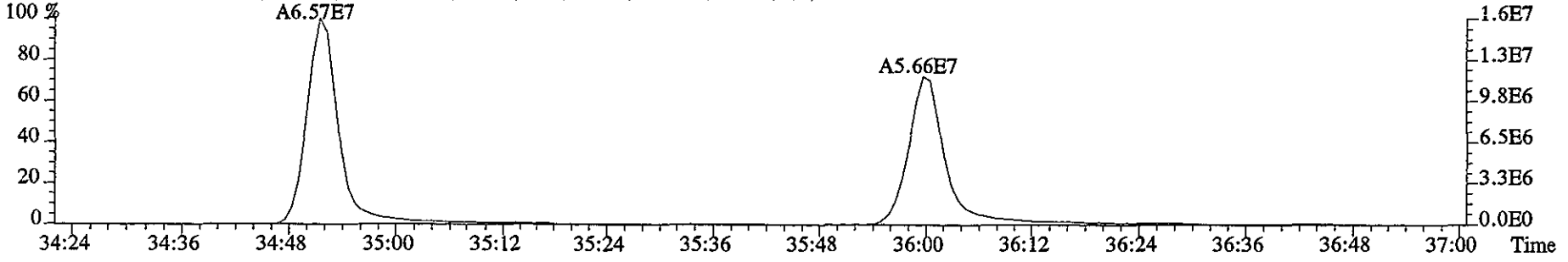
409.7789 S:17 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2108.0,1.00%,F,T)

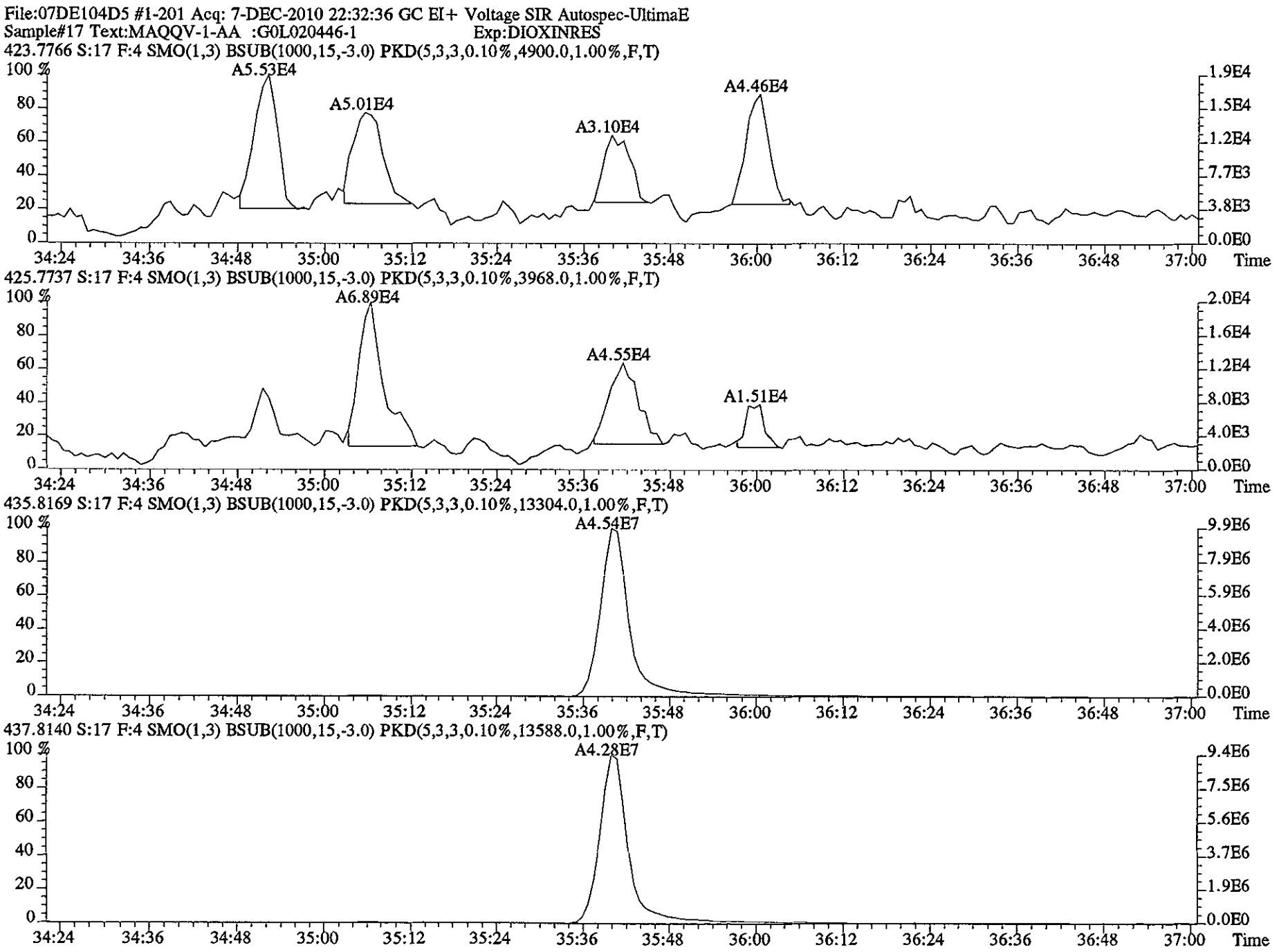


417.8253 S:17 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23484.0,1.00%,F,T)

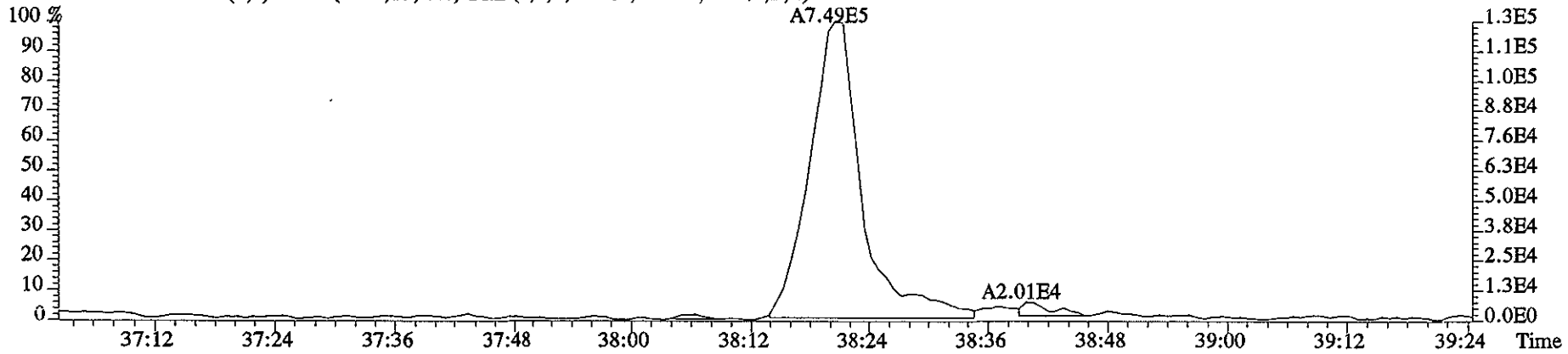


419.8220 S:17 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23824.0,1.00%,F,T)

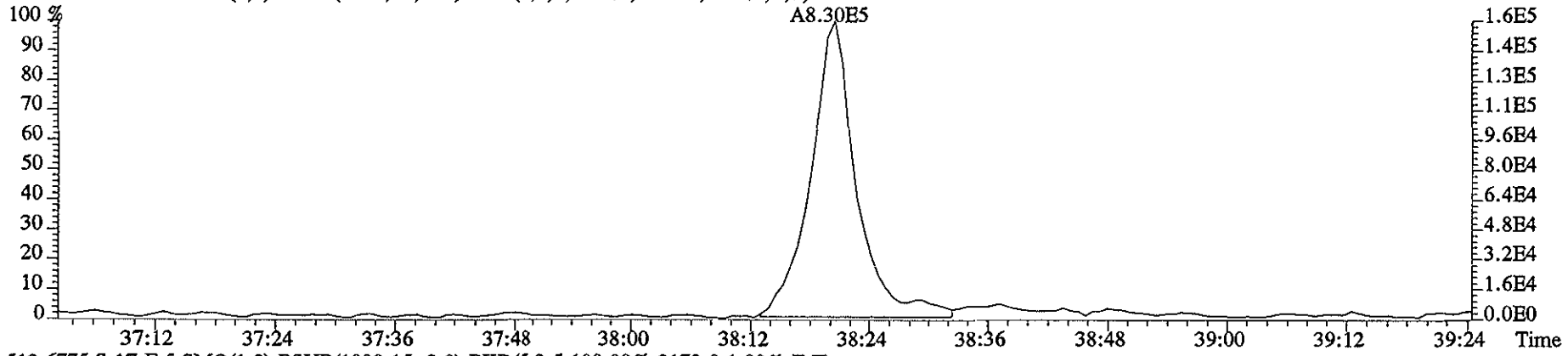



File:07DE104D5 #1-201 Acq: 7-DEC-2010 22:32:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#17 Text:MAQQV-1-AA :G0L020446-1 Exp:DIOXINRES
423.7766 S:17 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4900.0,1.00%,F,T)
A5.53E4
A5.01E4
A3.10E4
A4.46E4
425.7737 S:17 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3968.0,1.00%,F,T)
A6.89E4
A4.55E4
A1.51E4
435.8169 S:17 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13304.0,1.00%,F,T)
A4.54E7
437.8140 S:17 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13588.0,1.00%,F,T)
A4.28E7
100 %
80
60
40
20
0
34:24
34:36
34:48
35:00
35:12
35:24
35:36
35:48
36:00
36:12
36:24
36:36
36:48
37:00
Time
1.9E4
1.5E4
1.2E4
7.7E3
3.8E3
0.0E0
2.0E4
1.6E4
8.0E3
4.0E3
9.9E6
7.9E6
5.9E6
4.0E6
2.0E6
9.4E6
7.5E6
5.6E6
3.7E6
1.9E6

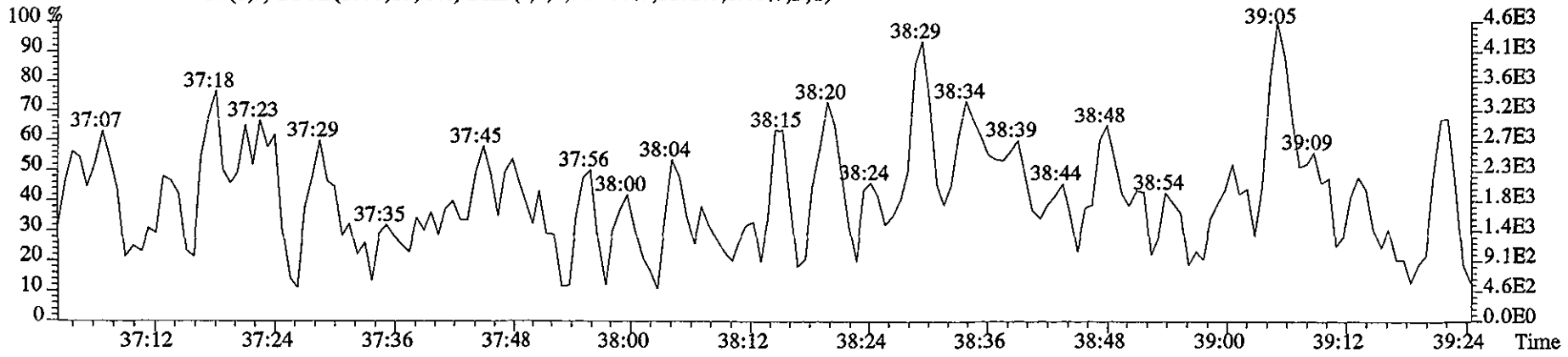
File:07DE104D5 #1-192 Acq: 7-DEC-2010 22:32:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#17 Text:MAQQV-1-AA :G0L020446-1 Exp:DIOXINRES
441.7428 S:17 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1900.0,1.00%,F,T)

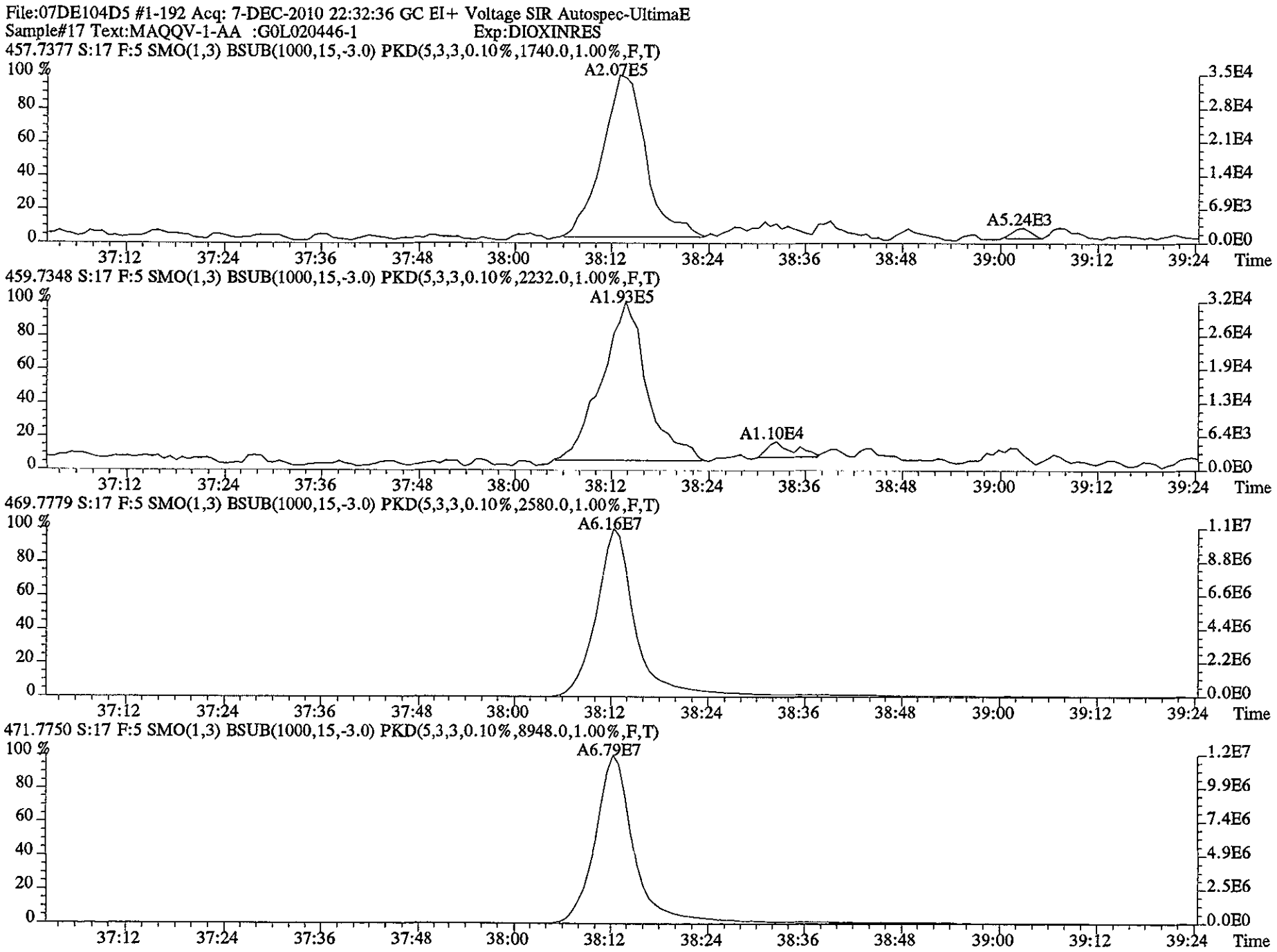


443.7399 S:17 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3072.0,1.00%,F,T)



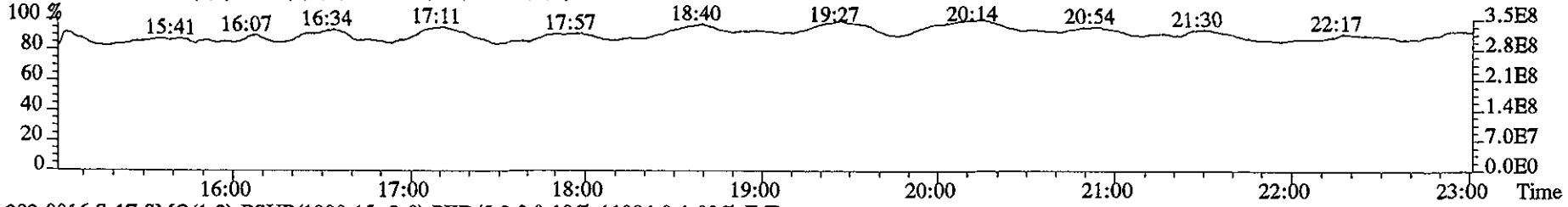
513.6775 S:17 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,2172.0,1.00%,F,T)



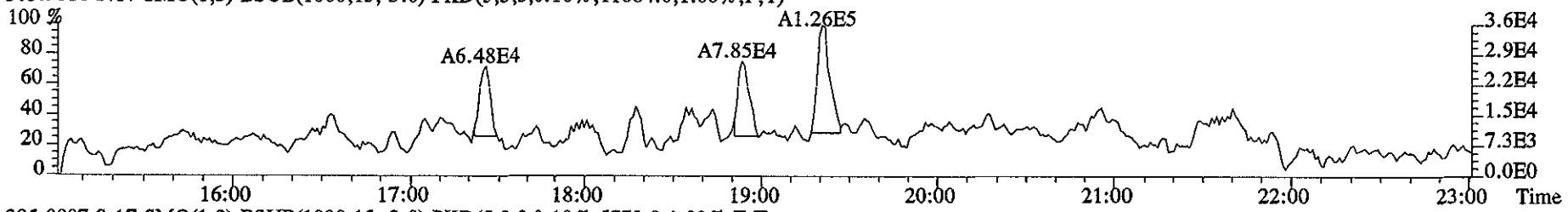

File:07DE104D5 #1-192 Acq: 7-DEC-2010 22:32:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#17 Text:MAQQV-1-AA :G0L020446-1 Exp:DIOXINRES
457.7377 S:17 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1740.0,1.00%,F,T)
A2.07E5
A5.24E3
459.7348 S:17 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2232.0,1.00%,F,T)
A1.93E5
A1.10E4
469.7779 S:17 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2580.0,1.00%,F,T)
A6.16E7
471.7750 S:17 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8948.0,1.00%,F,T)
A6.79E7
100 %
80
60
40
20
0
37:12
37:24
37:36
37:48
38:00
38:12
38:24
38:36
38:48
39:00
39:12
39:24
Time
3.5E4
2.8E4
2.1E4
1.4E4
6.9E3
0.0E0
3.2E4
2.6E4
1.9E4
1.3E4
6.4E3
1.1E7
8.8E6
6.6E6
4.4E6
2.2E6
1.2E7
9.9E6
7.4E6
4.9E6
2.5E6

File:07DE104D5 #1-530 Acq: 7-DEC-2010 22:32:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#17 Text:MAQQV-1-AA :G0L020446-1 Exp:DIOXINRES

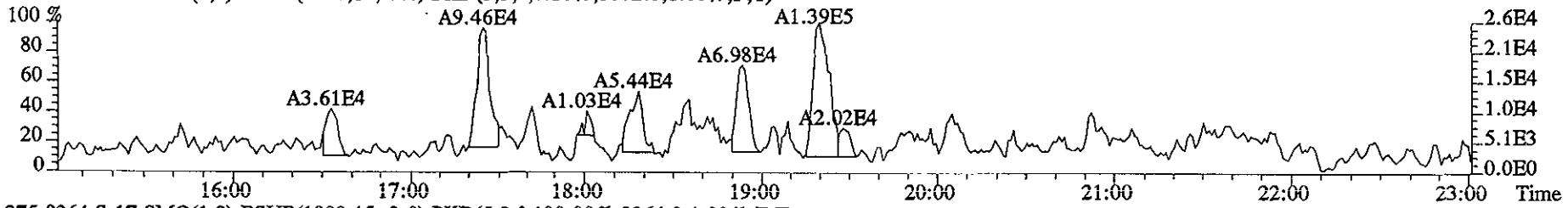
292.9825 S:17 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



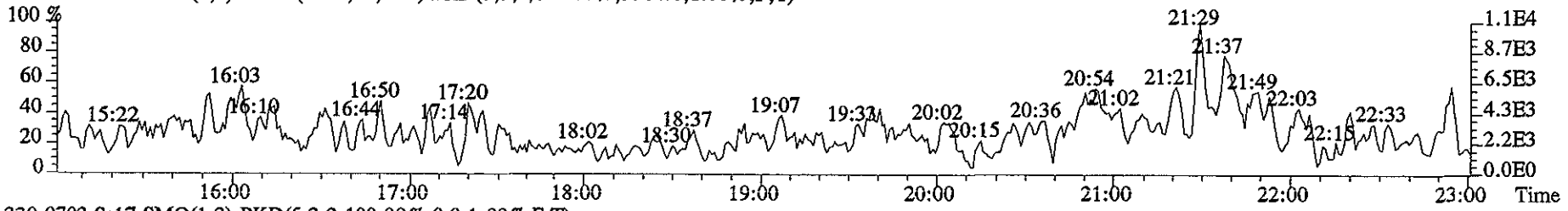
303.9016 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11884.0,1.00%,F,T)



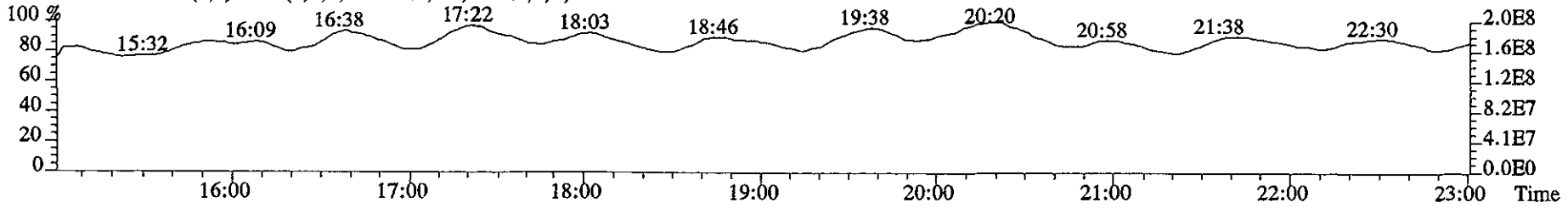
305.8987 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5772.0,1.00%,F,T)



375.8364 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,3364.0,1.00%,F,T)

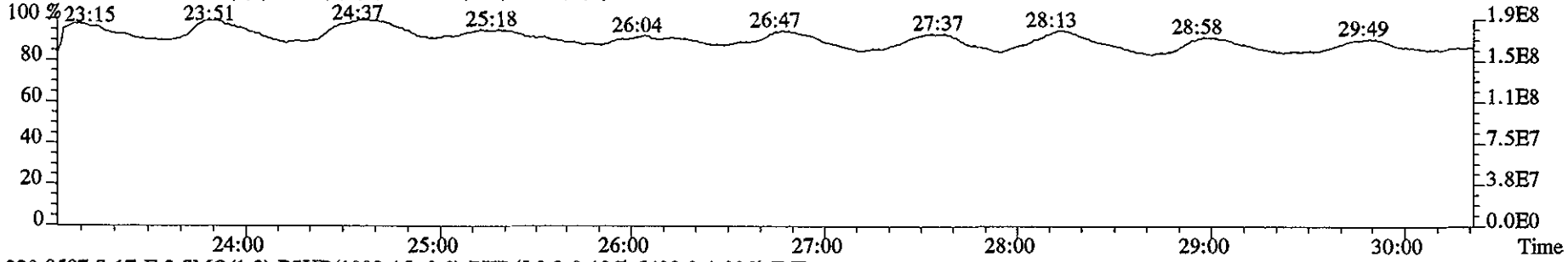


330.9792 S:17 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

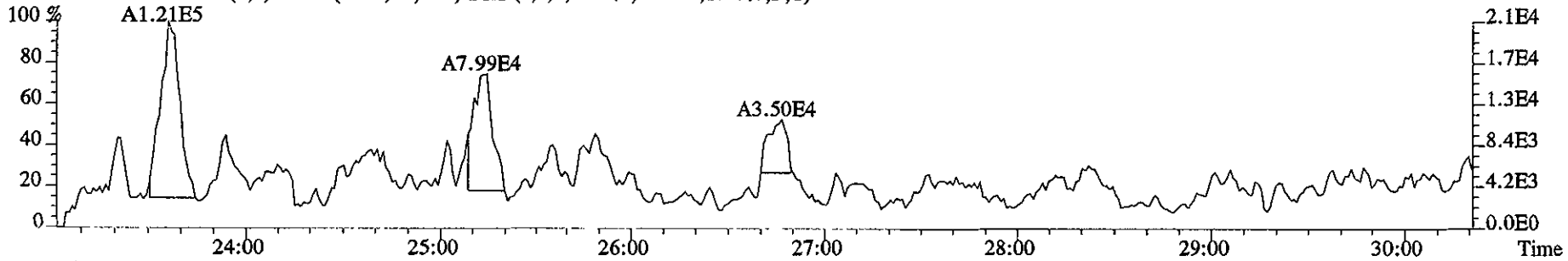


File:07DE104D5 #1-470 Acq: 7-DEC-2010 22:32:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#17 Text:MAQQV-1-AA :G0L020446-1 Exp:DIOXINRES

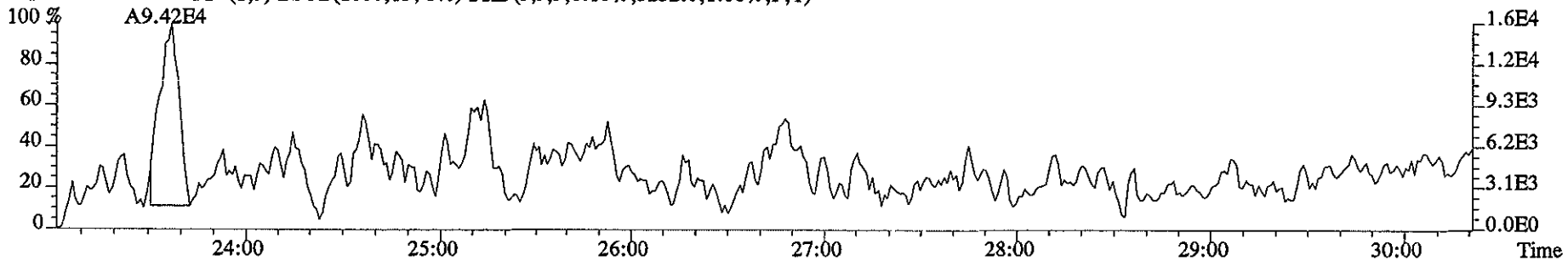
342.9792 S:17 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



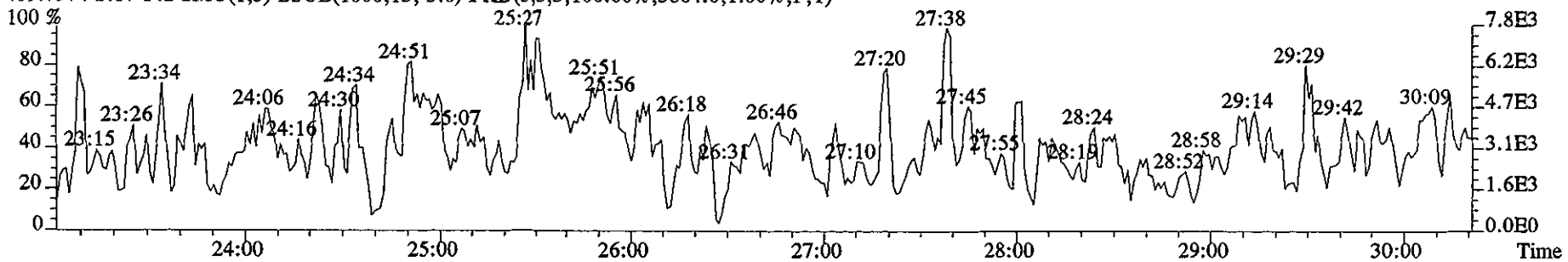
339.8597 S:17 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5408.0,1.00%,F,T)



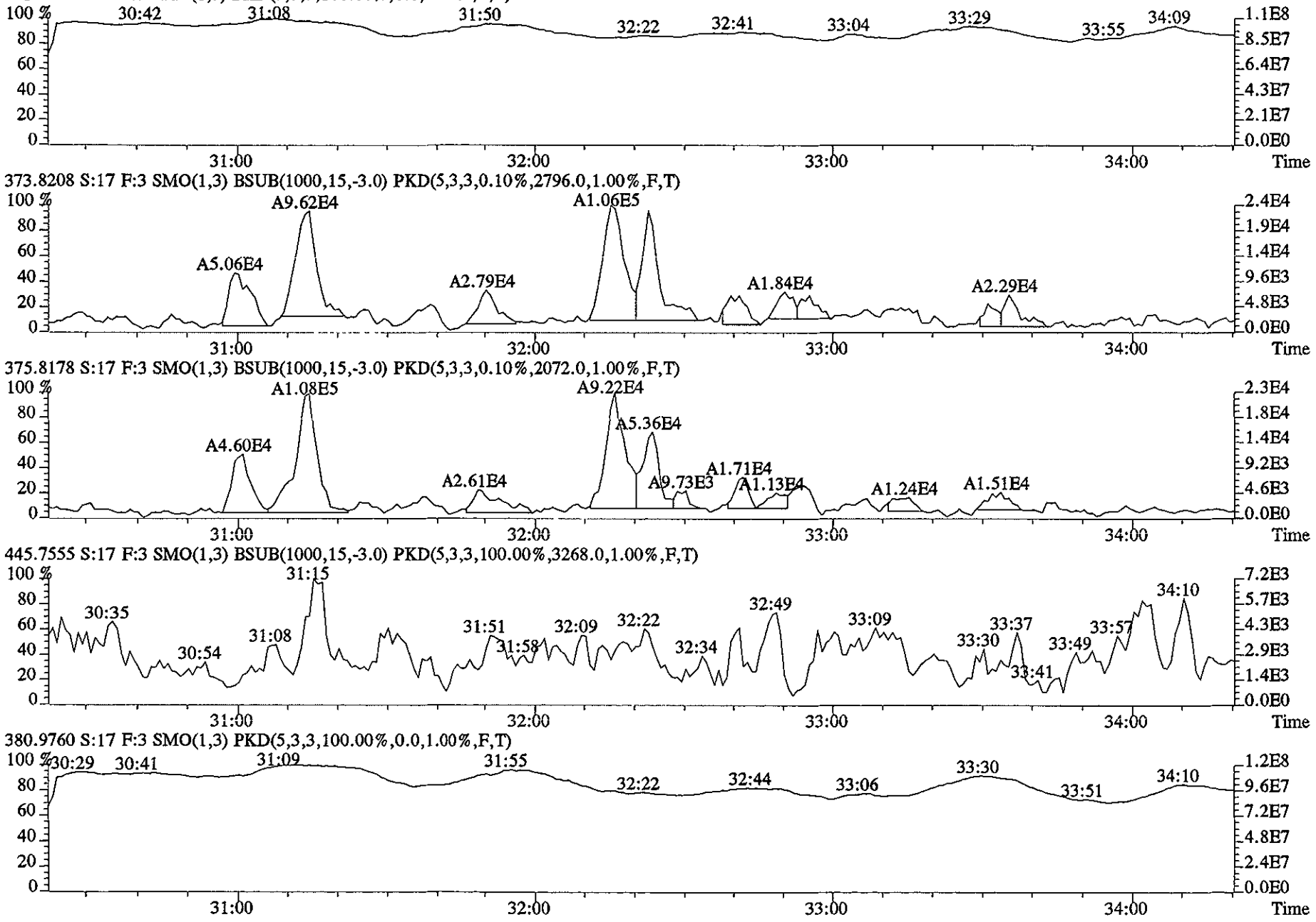
341.8567 S:17 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5252.0,1.00%,F,T)



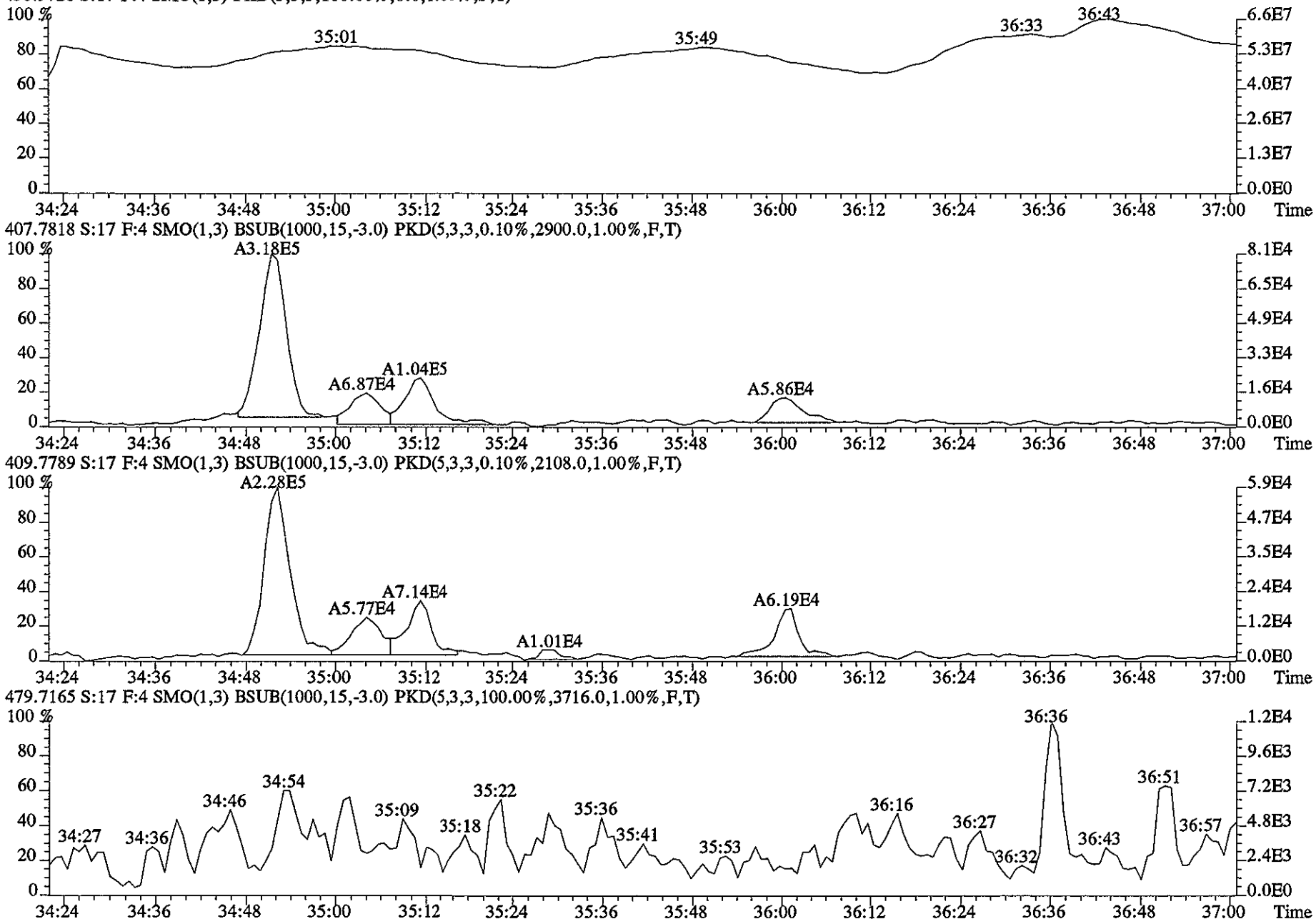
409.7974 S:17 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,3864.0,1.00%,F,T)



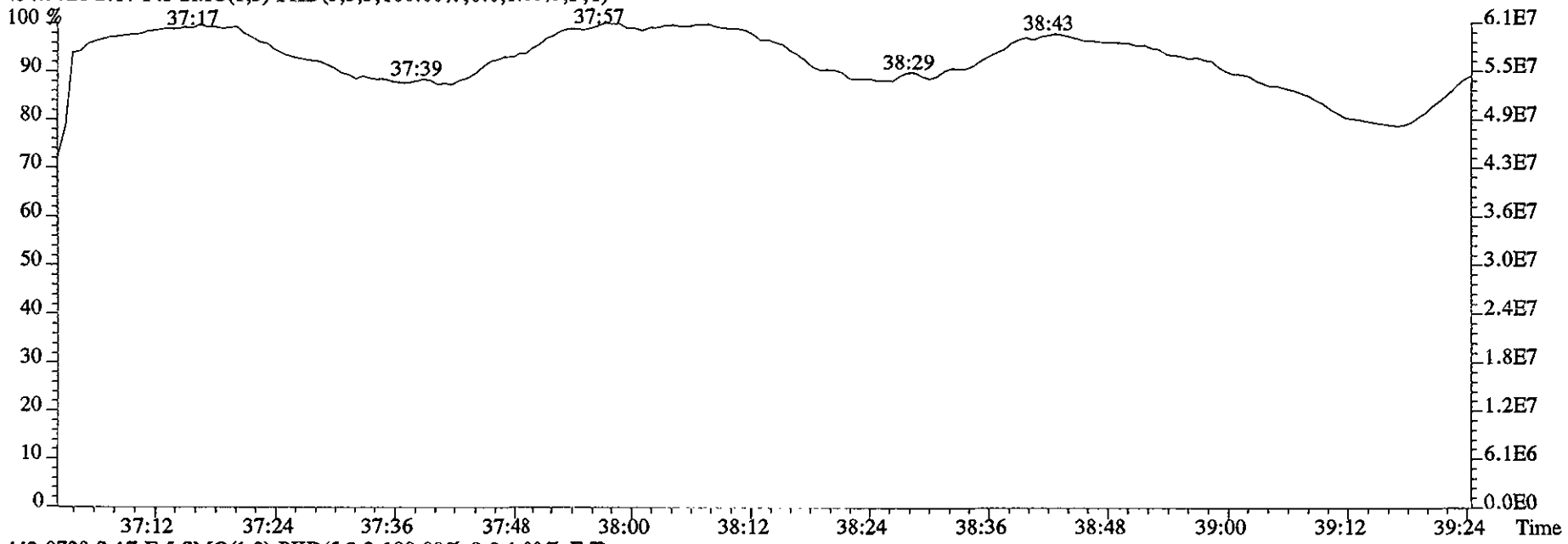
File:07DE104D5 #1-286 Acq: 7-DEC-2010 22:32:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#17 Text:MAQQV-1-AA :G0L020446-1 Exp:DIOXINRES



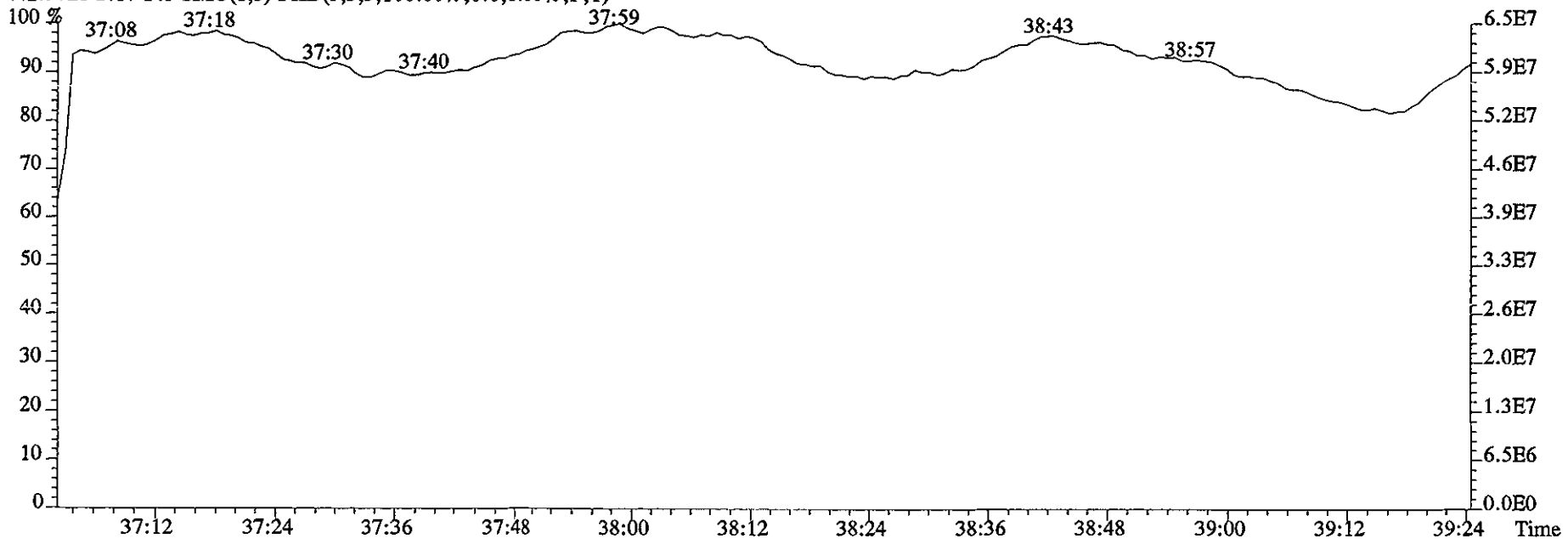
File:07DE104D5 #1-201 Acq: 7-DEC-2010 22:32:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#17 Text:MAQQV-1-AA :G0L020446-1 Exp:DIOXINRES



File:07DE104D5 #1-192 Acq: 7-DEC-2010 22:32:36 GC EI+ Voltage SIR Autospec-UltimaE
Sample#17 Text:MAQQV-1-AA :G0L020446-1 Exp:DIOXINRES
454.9728 S:17 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:17 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: MAQQ6-1-AA Sample text: MAQQ6-1-AA :G0L020446-5
Run #15 Filename: 07DE104D5 S: 18 I: 1 Results: 07DE104D5TO9
Acquired: 7-DEC-10 23:17:05 Processed: 8-DEC-10 07:53:24
Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5
Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

12/8/10 MEO

Name	Resp	RA		RT	RRF	Conc		EDL	Rec	M
13C-1,2,3,4-TCDD	209684700	0.82	y	19:56	-	125.563		-	-	n
13C-2,3,7,8-TCDF	234409000	0.81	y	19:18	1.23	3637.429		~~5.475~~	90.9	n
2,3,7,8-TCDF	*	*	n	NotFnd	0.99	*		7.502	-	n
Total TCDF	176370	0.68	y	18:55	0.99	~~3.026~~		7.502	-	n
13C-2,3,7,8-TCDD	186141200	0.80	y	20:08	0.91	3923.381		12.098	98.1	n
2,3,7,8-TCDD	*	*	n	NotFnd	0.98	*		5.665	-	n
Total TCDD	65695	0.46	n	17:54	0.98	~~1.435~~		5.665	-	n
37Cl-2,3,7,8-TCDD	100185200	1.00	y	20:09	1.33	1623.509		4.320	101.5	n
13C-1,2,3,7,8-PeCDF	216994000	1.59	y	25:11	0.88	4725.113		~~7.574~~	118.1	n
1,2,3,7,8-PeCDF	*	*	n	NotFnd	1.08	*		9.401	-	n
2,3,4,7,8-PeCDF	*	*	n	NotFnd	1.05	*		9.680	-	n
Total F2 PeCDF	256964	2.60	n	23:38	1.06	~~4.464~~		~~9.539~~	-	n
Total F1 PeCDF	*	*	n	NotFnd	1.06	*		~~6.335~~ 9.680 ✓	-	n
13C-1,2,3,7,8-PeCDD	146589400	1.61	y	27:34	0.66	4231.648		~~8.166~~	105.8	n
1,2,3,7,8-PeCDD	*	*	n	NotFnd	0.93	*		13.926	-	n
Total PeCDD	*	*	n	NotFnd	0.93	*		13.926	-	n
13C-1,2,3,7,8,9-HxCDD	150089300	1.25	y	33:22	-	126.765		-	-	n
13C-1,2,3,4,7,8-HxCDF	130205800	0.51	y	32:15	1.04	3321.338		3.665	83.0	n
1,2,3,4,7,8-HxCDF	386165	1.19	y	32:16	1.22	9.746	J ✓	3.545	-	n
1,2,3,6,7,8-HxCDF	303237	1.25	y	32:22	~~1.28~~ 1.54	~~7.269~~ 6.042	J	3.367	-	n
2,3,4,6,7,8-HxCDF	101277	0.79	n	32:55	1.23	~~2.523~~		3.498	-	n
1,2,3,7,8,9-HxCDF	*	*	n	NotFnd	1.10	*		3.929	-	n
Total HxCDF	1403893	1.49	n	31:01	1.21	~~35.137~~ 28.885 ✓		3.573	-	n
13C-1,2,3,6,7,8-HxCDD	127325100	1.26	y	33:06	0.83	4084.440		~~4.763~~	102.1	n
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	1.04	*		4.192	-	n
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.16	*		3.739	-	n
1,2,3,7,8,9-HxCDD	*	*	n	NotFnd	1.18	*		3.679	-	n
Total HxCDD	99843	1.60	n	31:45	1.13	~~2.783~~		~~3.857~~ 4.192 ✓	-	n
13C-1,2,3,4,6,7,8-HpCDF	102077700	0.45	y	34:52	0.91	2989.434		11.031	74.7	n
1,2,3,4,6,7,8-HpCDF	865486	1.26	n	34:53	1.35	25.201	JQR	2.960	-	n
1,2,3,4,7,8,9-HpCDF	183968	1.27	n	36:00	1.09	6.593	JQ	3.643	-	n
Total HpCDF	1453256	1.26	n	34:53	1.22	44.768	✓	3.266	-	n
13C-1,2,3,4,6,7,8-HpCDD	91738300	1.06	y	35:41	0.83	2957.757		10.186	73.9	n
1,2,3,4,6,7,8-HpCDD	128907	0.75	n	35:42	1.07	5.245	JQ	4.489	-	n
Total HpCDD	291898	1.20	n	35:07	1.07	11.876	✓	4.489	-	n
13C-OCDD	142102700	0.92	y	38:14	0.62	6109.310		10.024	76.4	n
OCDF	1490131	0.81	y	38:20	1.37	61.221	J	4.378	-	n

OCDD	605637	0.96	y	38:14	1.20	28.429	TB	4.753	-	n

Run Text: MAQQ6-1-AA Sample text: MAQQ6-1-AA :G0L020446-5

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:1
Run: 15 File: 07DE104D5 S:18 Acq: 7-DEC-10 23:17:05
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

Amount:	1.513 of which	* named and	1.513	unnamed	
Conc:	3.026 of which	* named and	3.026	unnamed	

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	18:55	0.676 y	3.026	71109	1.149	n	n
					105261	2.223	n	n

Run Text: MAQQ6-1-AA Sample text: MAQQ6-1-AA :G0L020446-5

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:1
Run: 15 File: 07DE104D5 S:18 Acq: 7-DEC-10 23:17:05
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

Amount:	0.718 of which	* named and	0.718	unnamed	
Conc:	1.435 of which	* named and	1.435	unnamed	

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	17:54	0.463 n	1.435	28579	1.141	n	n
					61707	1.678	n	n

Run Text: MAQQ6-1-AA Sample text: MAQQ6-1-AA :G0L020446-5

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:1
Run: 15 File: 07DE104D5 S:18 Acq: 7-DEC-10 23:17:05
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

Amount:	2.232 of which	* named and	2.232	unnamed	
Conc:	4.464 of which	* named and	4.464	unnamed	

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	23:38	2.602 n	4.464	262243	2.638	n	n
					100770	1.491	n	n

Run Text: MAQQ6-1-AA Sample text: MAQQ6-1-AA :G0L020446-5

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:0
Run: 15 File: 07DE104D5 S:18 Acq: 7-DEC-10 23:17:05
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D¶

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: MAQQ6-1-AA Sample text: MAQQ6-1-AA :G0L020446-5

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:0
Run: 15 File: 07DE104D5 S:18 Acq: 7-DEC-10 23:17:05
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D¶

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: MAQQ6-1-AA Sample text: MAQQ6-1-AA :G0L020446-5

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:6
Run: 15 File: 07DE104D5 S:18 Acq: 7-DEC-10 23:17:05
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

Amount: 17.568 of which 9.769 named and 7.800 unnamed
Conc: 35.137 of which 19.537 named and 15.600 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	31:01	1.491 n	4.456	116618	4.132	y	n
					78192	3.096	y	n
	2	31:13	1.212 y	8.741	188264	5.512	y	n
					155338	5.819	y	n
1,2,3,4,7,8-HxCDF	3	32:16	1.191 y	9.746	209931	7.591	y	n
					176234	7.919	y	n
1,2,3,6,7,8-HxCDF	4	32:22	1.245 y	6.042 ~~7.269~~	168185	5.920	y	n
					135052	6.286	y	n
	5	32:42	0.984 n	2.403	52291	1.911	n	n
					53130	1.662	n	n
2,3,4,6,7,8-HxCDF	6	32:55	0.793 n	2.523	56064	1.456	n	n
					70680	1.913	n	n

28.985

Run Text: MAQQ6-1-AA Sample text: MAQQ6-1-AA :G0L020446-5

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:2
Run: 15 File: 07DE104D5 S:18 Acq: 7-DEC-10 23:17:05
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

Amount: 1.391 of which * named and 1.391 unnamed
Conc: 2.783 of which * named and 2.783 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	31:45	1.599 n	1.233	31590	1.264	n	n
					19750	0.966	n	n
	2	32:31	1.566 n	1.550	38883	1.597	n	n
					24823	1.638	n	n

Run Text: MAQQ6-1-AA Sample text: MAQQ6-1-AA :G0L020446-5

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4
Run: 15 File: 07DE104D5 S:18 Acq: 7-DEC-10 23:17:05

Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

Amount:	22.384 of which	15.897 named and	6.487	unnamed	
Conc:	44.768 of which	31.794 named and	12.974	unnamed	

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	34:53	1.262 n	25.201	535424	24.638	y	n
					424258	27.047	y	n
	2	35:05	1.219 n	4.141	77023	4.694	y	n
					63173	4.544	y	n
	3	35:11	1.036 y	8.833	139873	7.346	y	n
					135056	8.416	y	n
1,2,3,4,7,8,9-HpCDF	4	36:00	1.273 n	6.593	114785	6.272	y	n
					90180	5.857	y	n

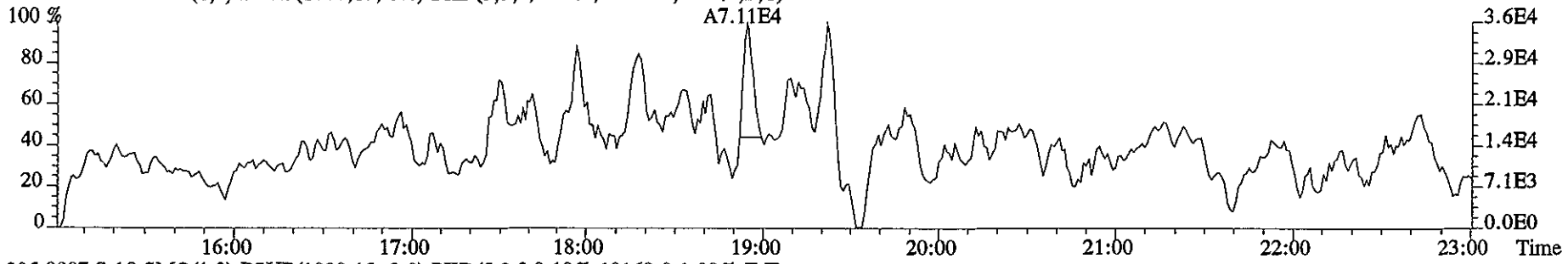
Run Text: MAQQ6-1-AA Sample text: MAQQ6-1-AA :G0L020446-5

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:2
Run: 15 File: 07DE104D5 S:18 Acq: 7-DEC-10 23:17:05
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

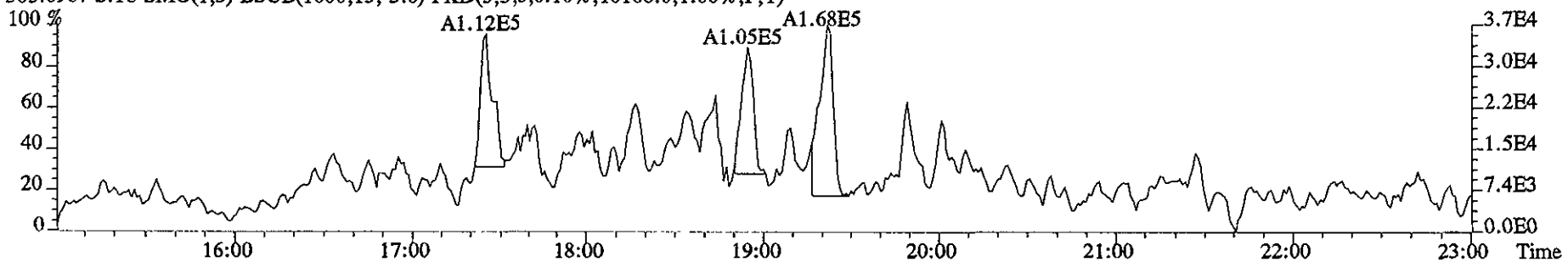
Amount:	5.938 of which	2.622 named and	3.316	unnamed	
Conc:	11.876 of which	5.245 named and	6.631	unnamed	

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	35:07	1.204 n	6.631	96167	6.434	y	n
					79898	5.672	y	n
1,2,3,4,6,7,8-HpCDD	2	35:42	0.750 n	5.245	65717	5.227	y	n
					87570	5.585	y	n

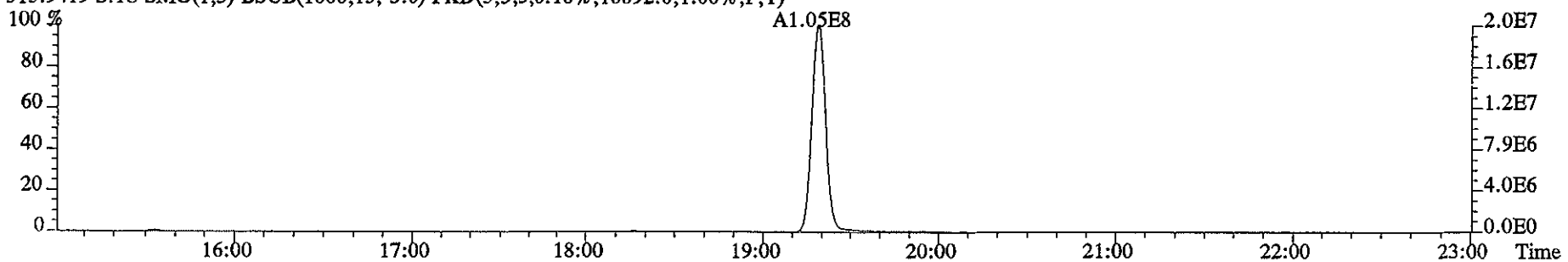
File:07DE104D5 #1-530 Acq: 7-DEC-2010 23:17:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#18 Text:MAQQ6-1-AA :G0L020446-5 Exp:DIOXINRES
303.9016 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17320.0,1.00%,F,T)



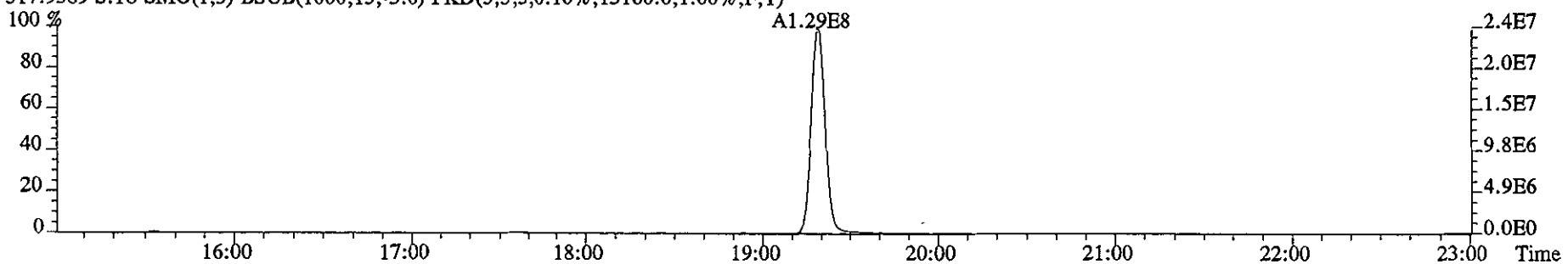
305.8987 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10168.0,1.00%,F,T)



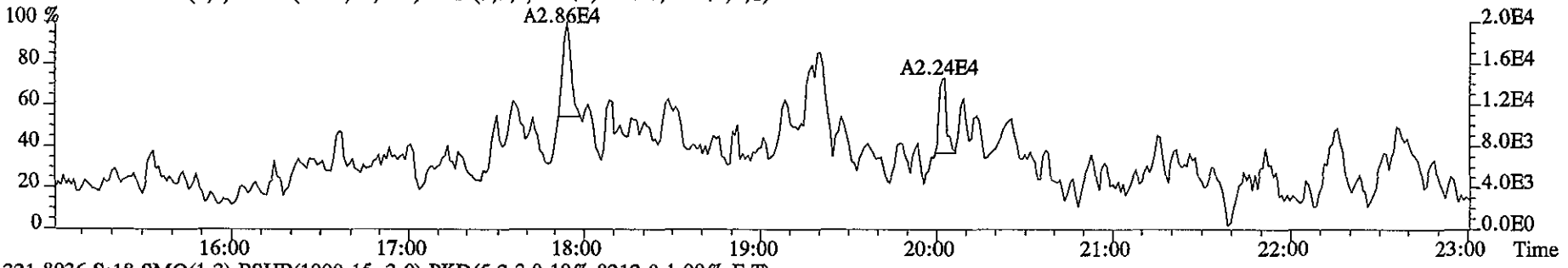
315.9419 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10092.0,1.00%,F,T)



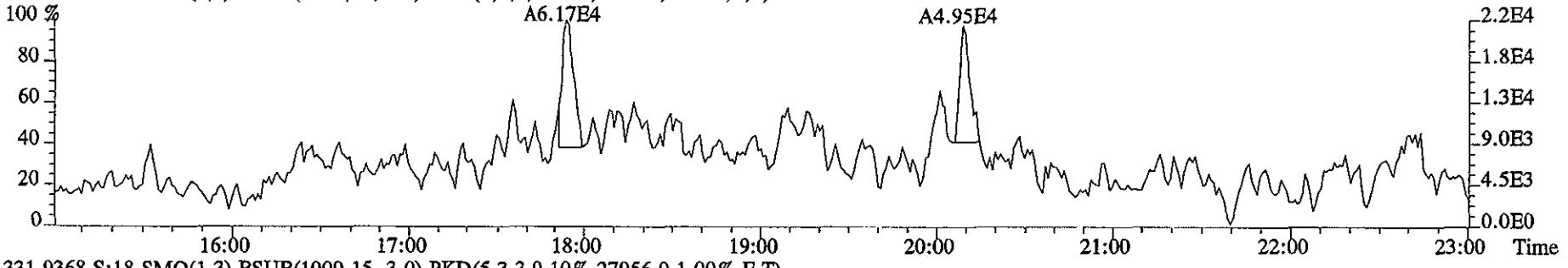
317.9389 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13160.0,1.00%,F,T)



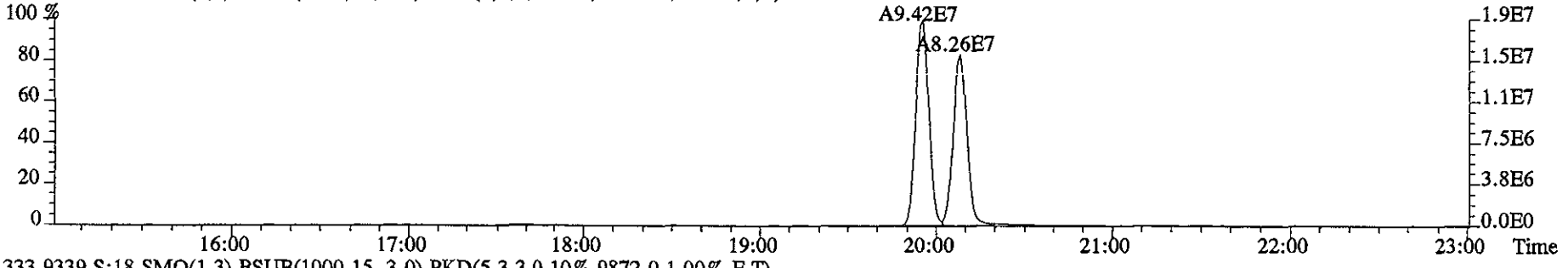
File:07DE104D5 #1-530 Acq: 7-DEC-2010 23:17:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#18 Text:MAQQ6-1-AA :G0L020446-5 Exp:DIOXINRES
319.8965 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8080.0,1.00%,F,T)



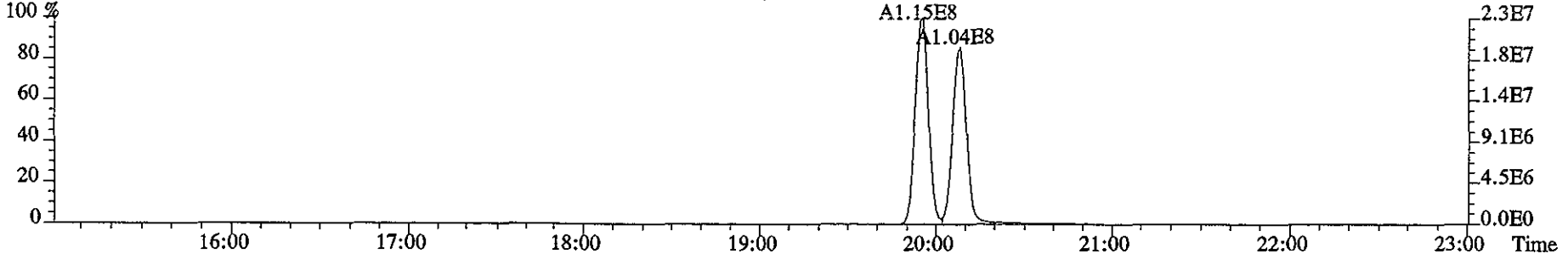
321.8936 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8212.0,1.00%,F,T)



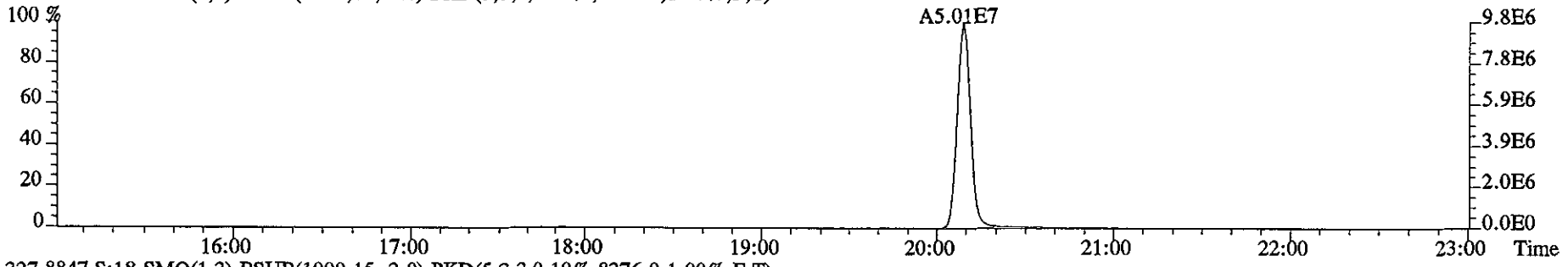
331.9368 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27956.0,1.00%,F,T)



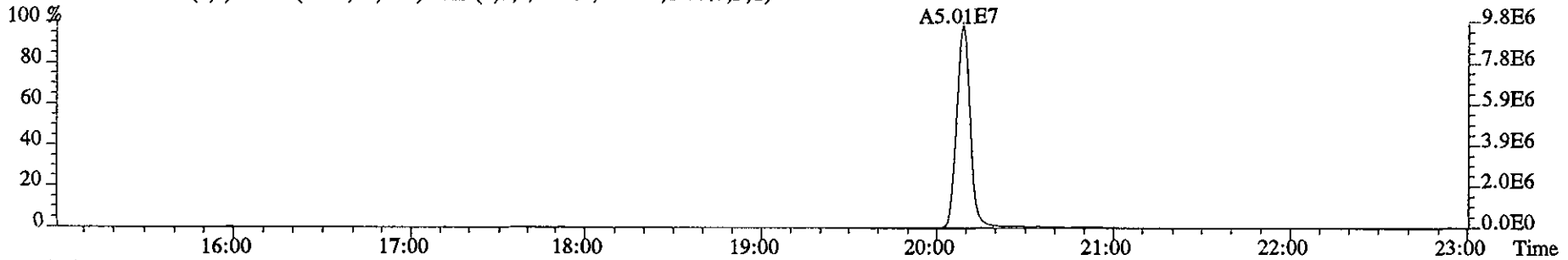
333.9339 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9872.0,1.00%,F,T)



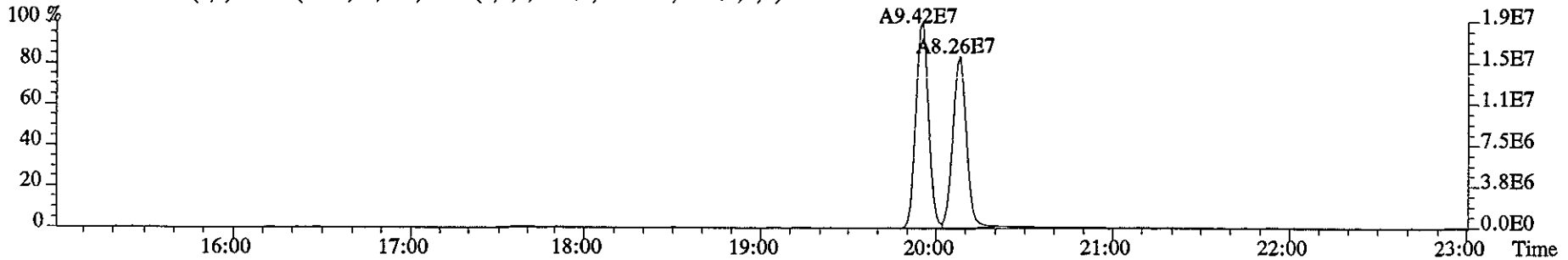
File:07DE104D5 #1-530 Acq: 7-DEC-2010 23:17:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#18 Text:MAQQ6-1-AA :G0L020446-5 Exp:DIOXINRES
327.8847 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8376.0,1.00%,F,T)



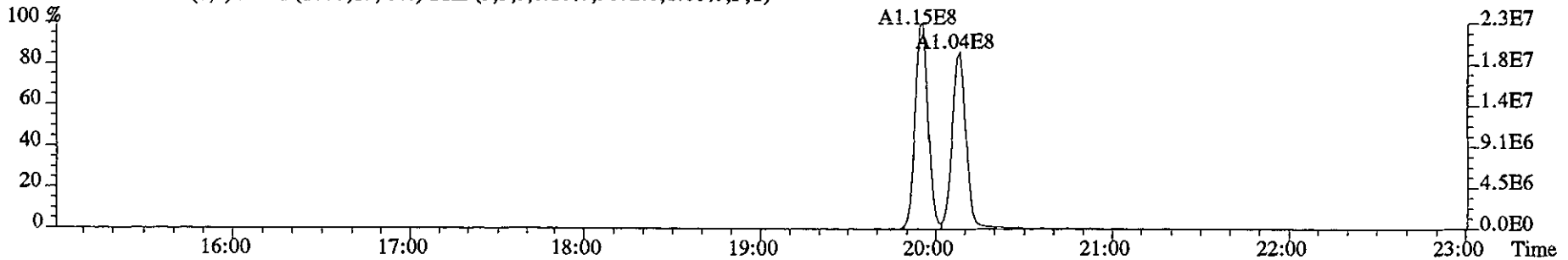
327.8847 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8376.0,1.00%,F,T)



331.9368 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27956.0,1.00%,F,T)

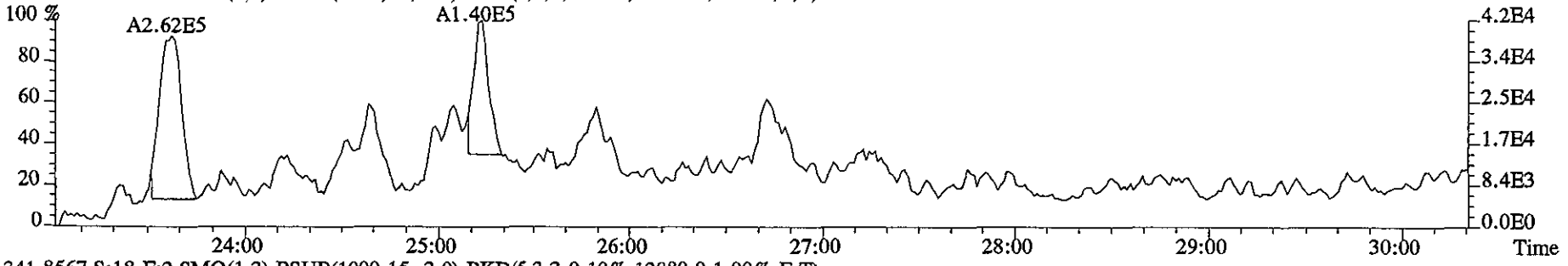


333.9339 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9872.0,1.00%,F,T)

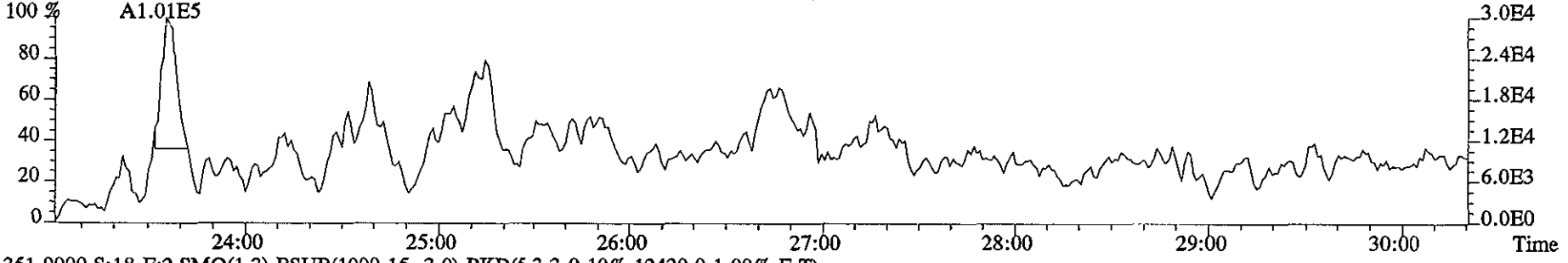


File:07DE104D5 #1-470 Acq: 7-DEC-2010 23:17:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#18 Text:MAQQ6-1-AA :G0L020446-5 Exp:DIOXINRES

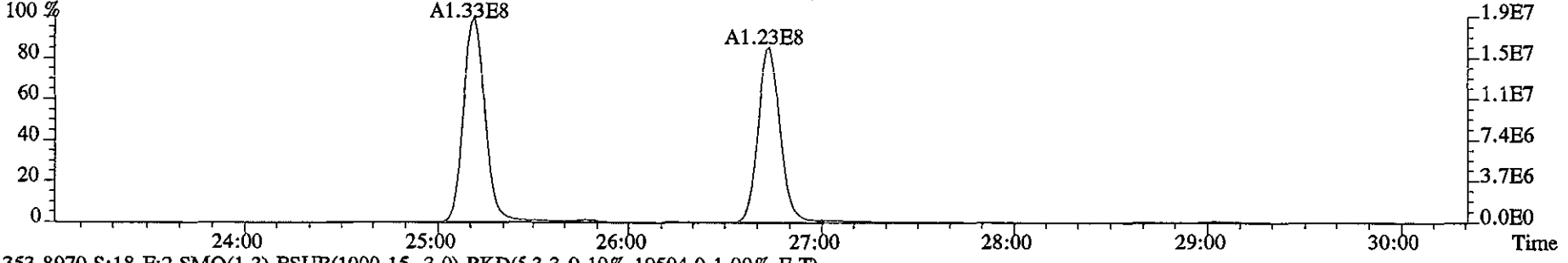
339.8597 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12644.0,1.00%,F,T)



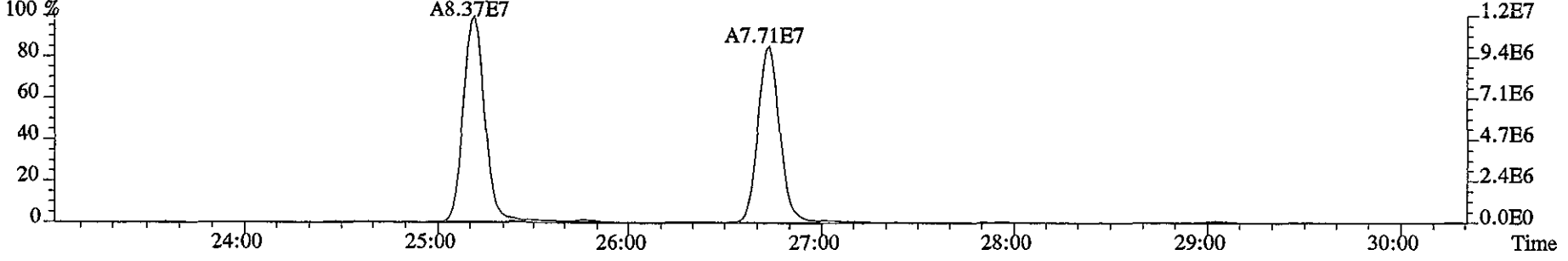
341.8567 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12880.0,1.00%,F,T)



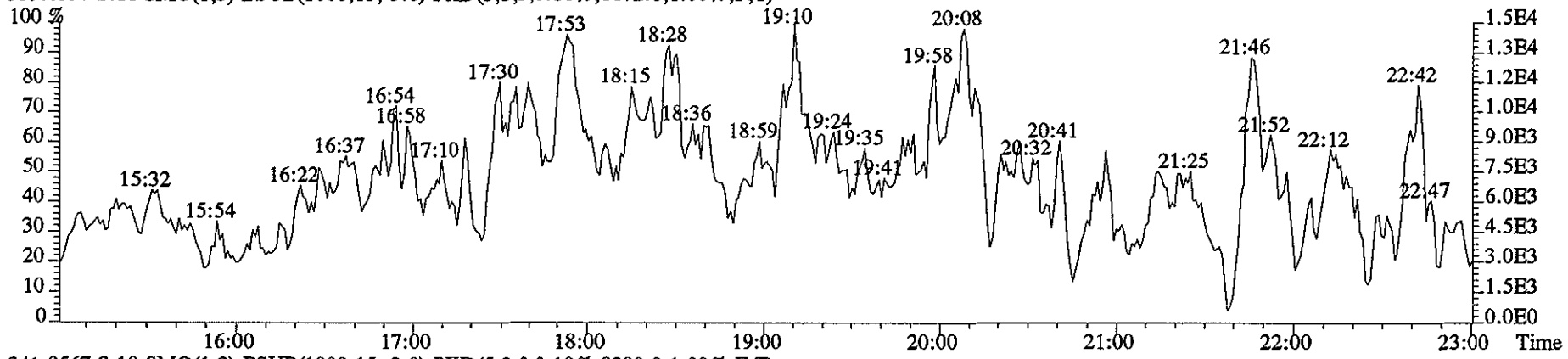
351.9000 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12420.0,1.00%,F,T)



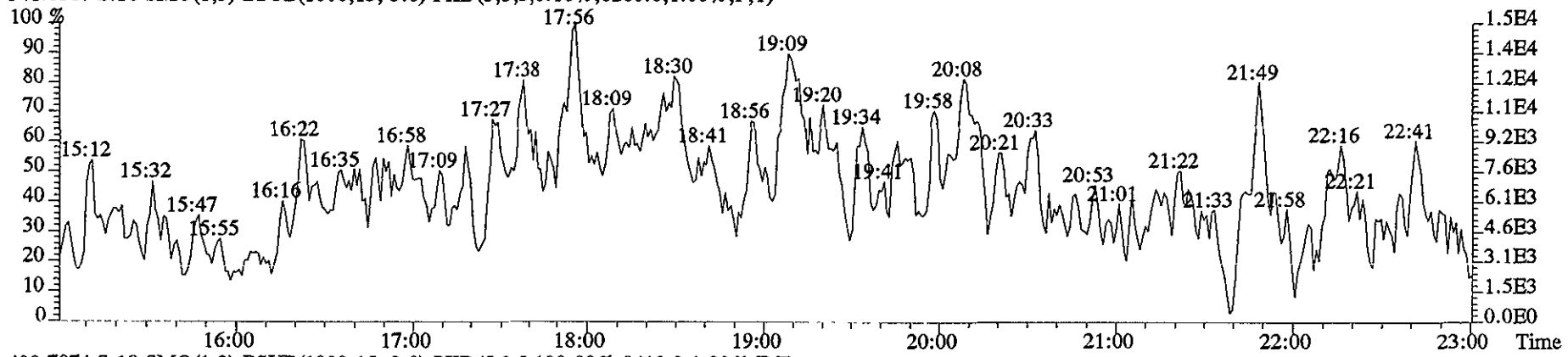
353.8970 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10504.0,1.00%,F,T)



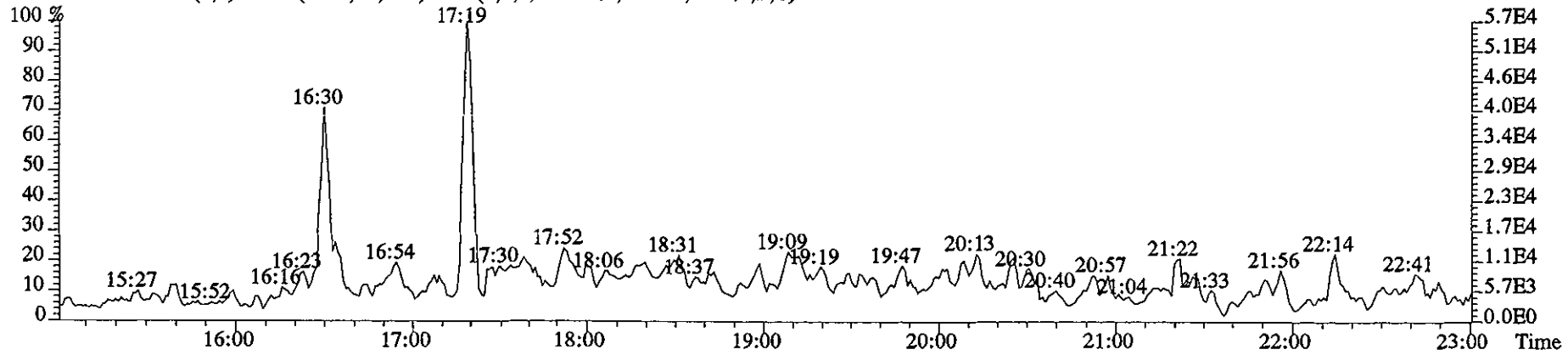
File:07DE104D5 #1-530 Acq: 7-DEC-2010 23:17:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#18 Text:MAQQ6-1-AA :G0L020446-5 Exp:DIOXINRES
339.8597 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8672.0,1.00%,F,T)



341.8567 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8280.0,1.00%,F,T)

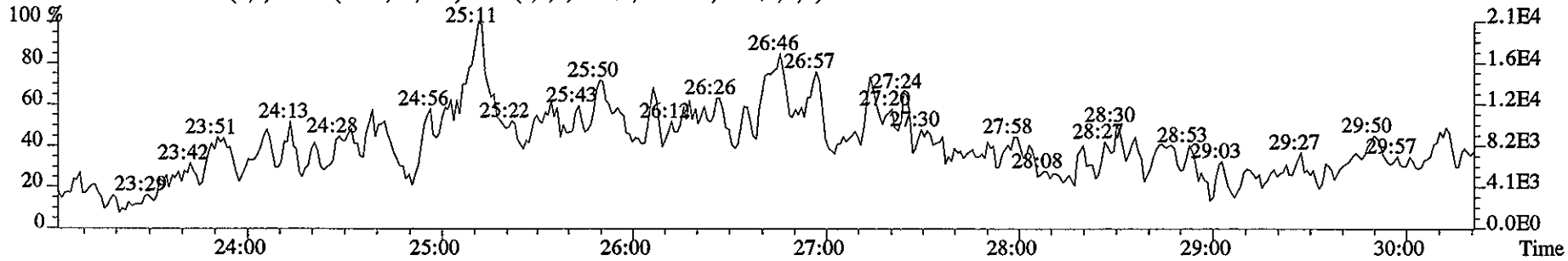


409.7974 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,8412.0,1.00%,F,T)

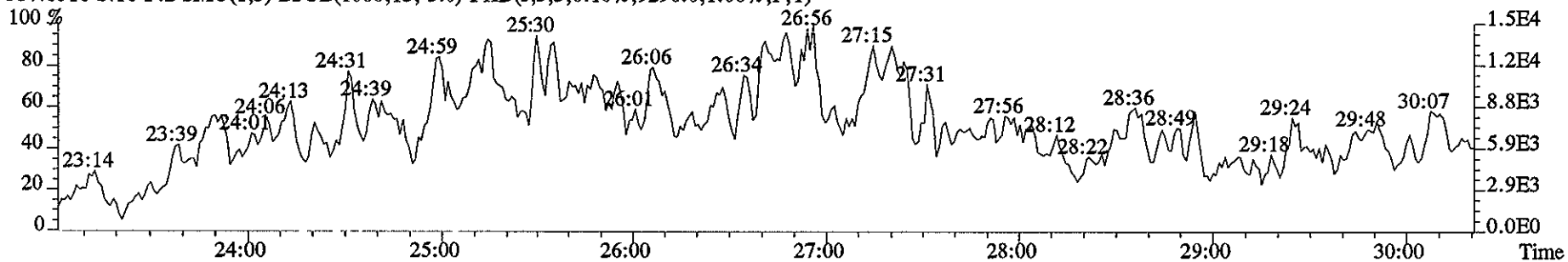


File:07DE104D5 #1-470 Acq: 7-DEC-2010 23:17:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#18 Text:MAQQ6-1-AA :G0L020446-5 Exp:DIOXINRES

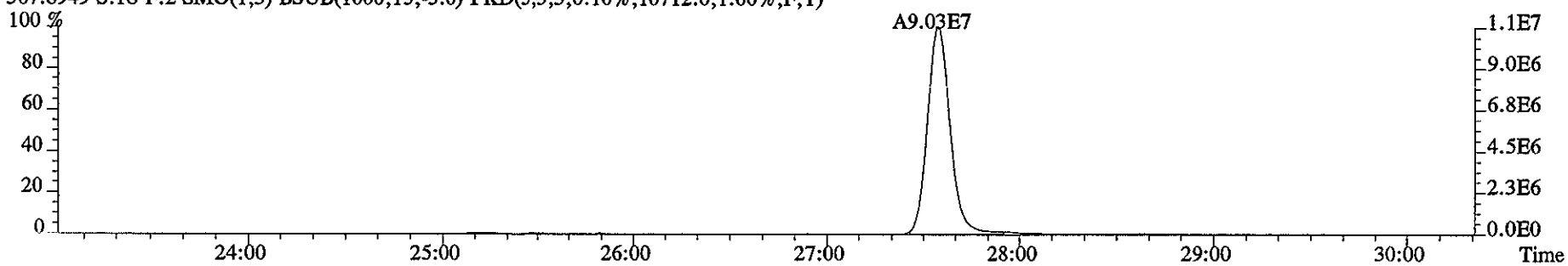
355.8546 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10356.0,1.00%,F,T)



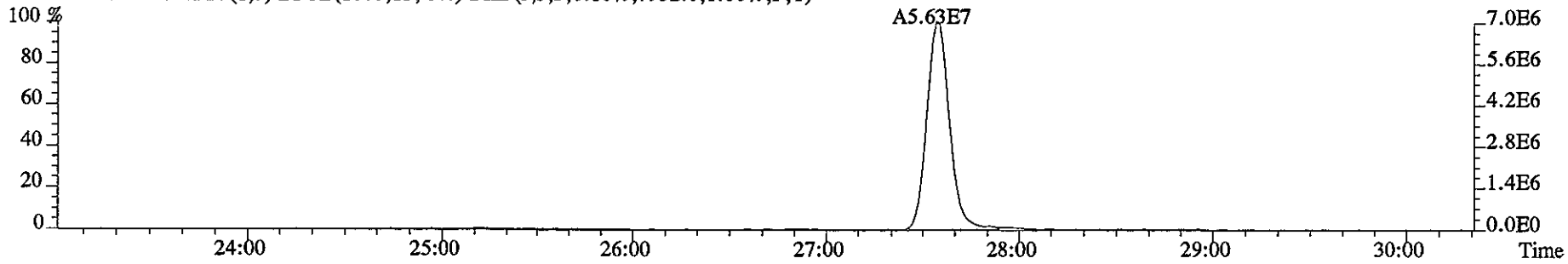
357.8516 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9296.0,1.00%,F,T)



367.8949 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10712.0,1.00%,F,T)

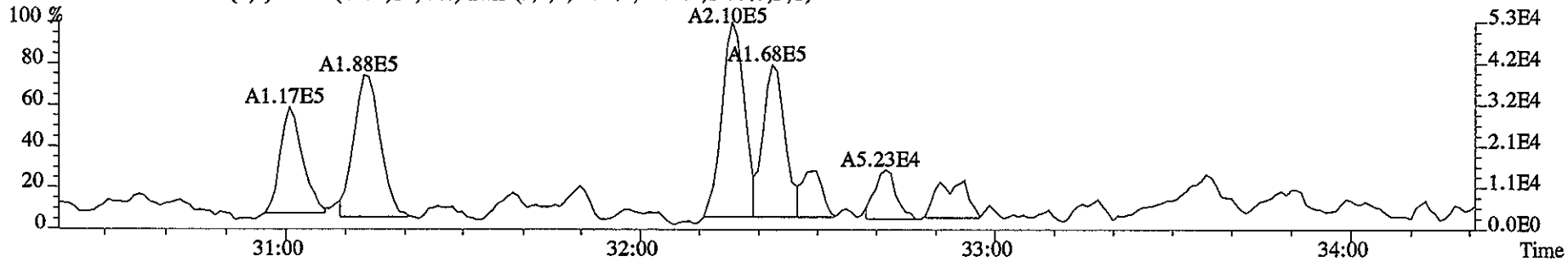


369.8919 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7932.0,1.00%,F,T)

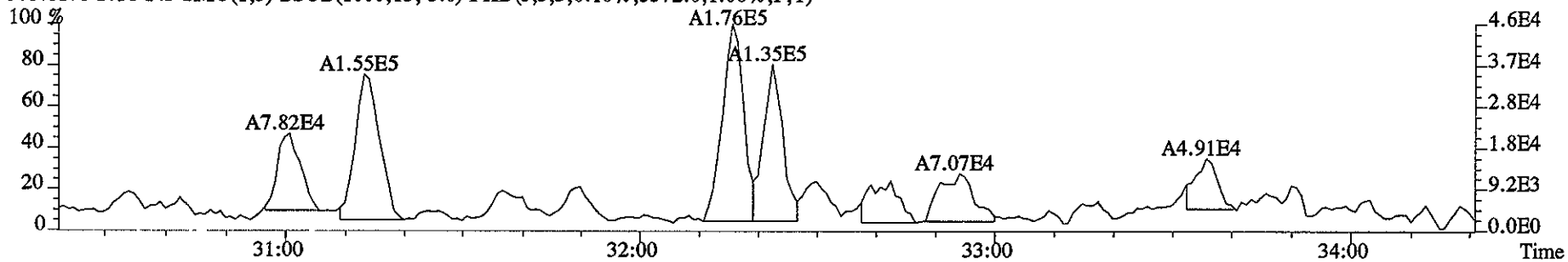


File:07DE104D5 #1-287 Acq: 7-DEC-2010 23:17:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#18 Text:MAQQ6-1-AA :G0L020446-5 Exp:DIOXINRES

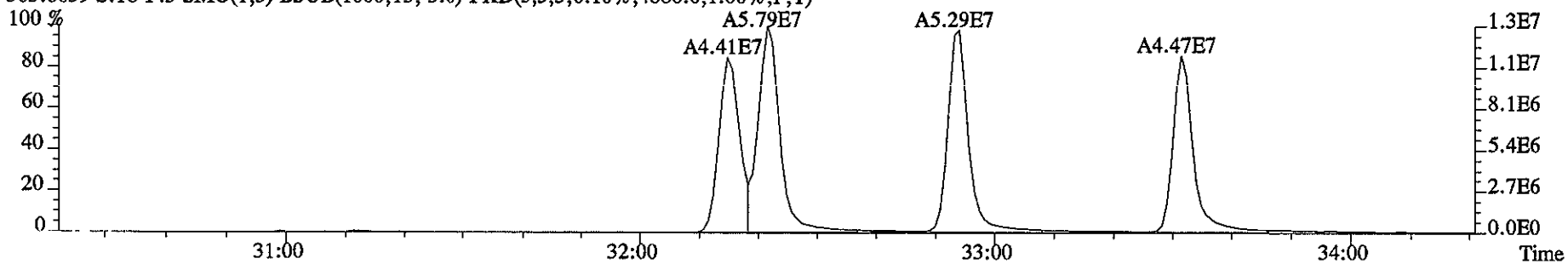
373.8208 S:18 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6560.0,1.00%,F,T)



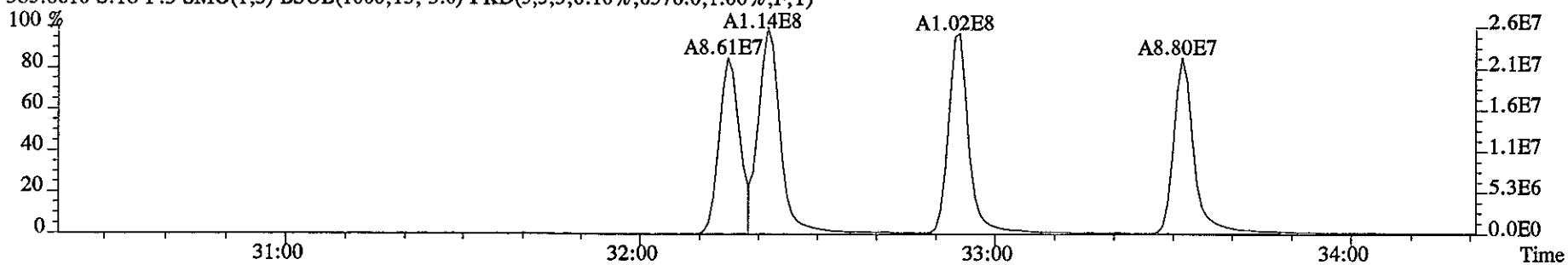
375.8178 S:18 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5572.0,1.00%,F,T)



383.8639 S:18 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4880.0,1.00%,F,T)

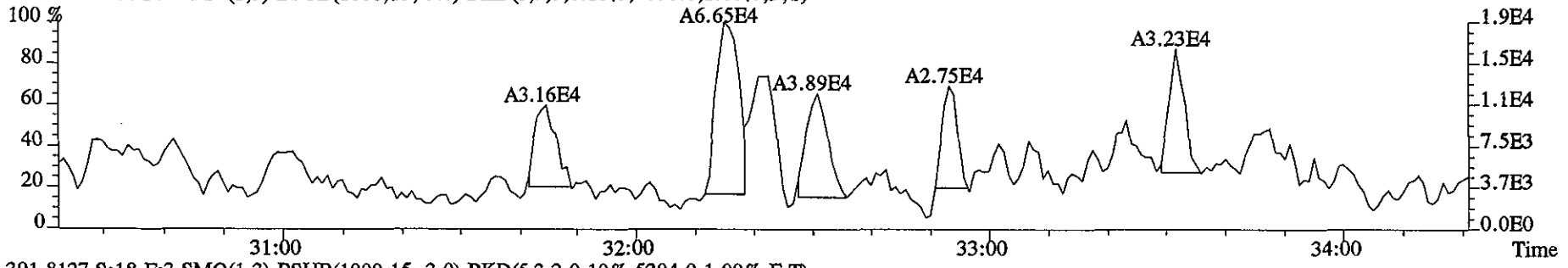


385.8610 S:18 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6576.0,1.00%,F,T)

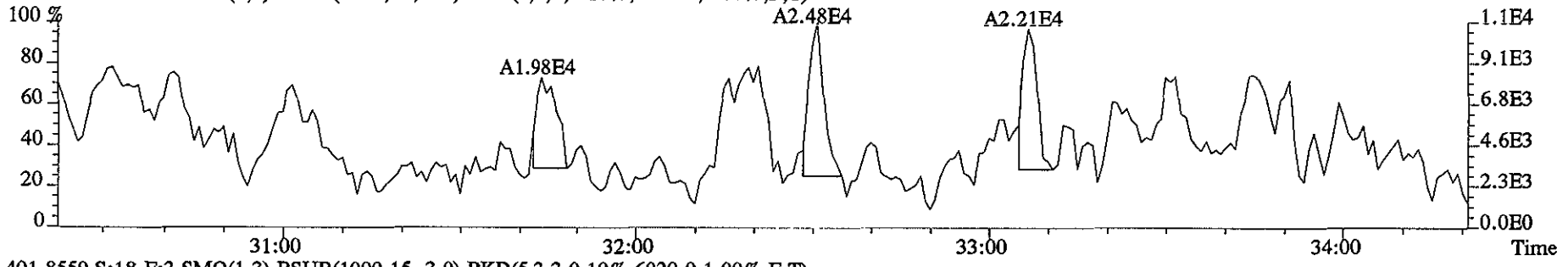


File:07DE104D5 #1-287 Acq: 7-DEC-2010 23:17:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#18 Text:MAQQ6-1-AA :G0L020446-5 Exp:DIOXINRES

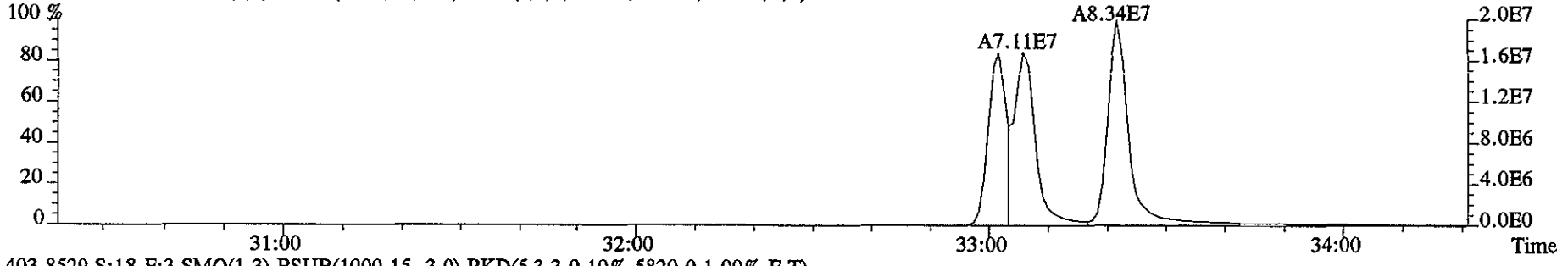
389.8157 S:18 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5856.0,1.00%,F,T)



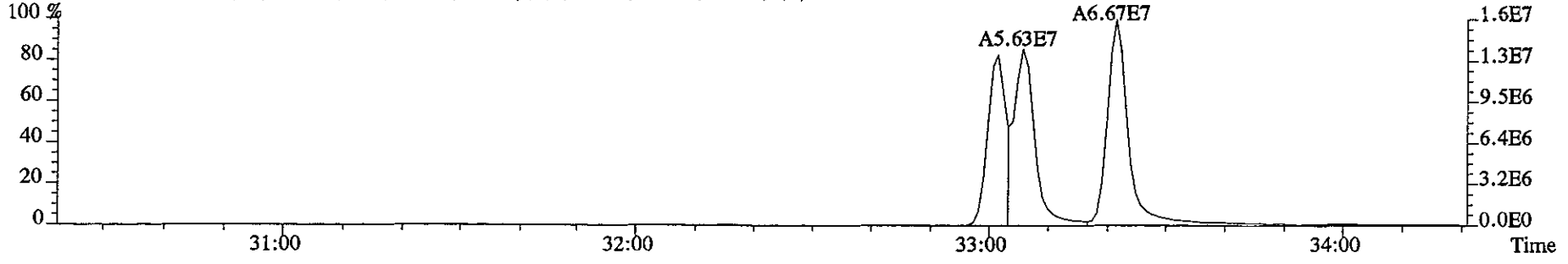
391.8127 S:18 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5204.0,1.00%,F,T)



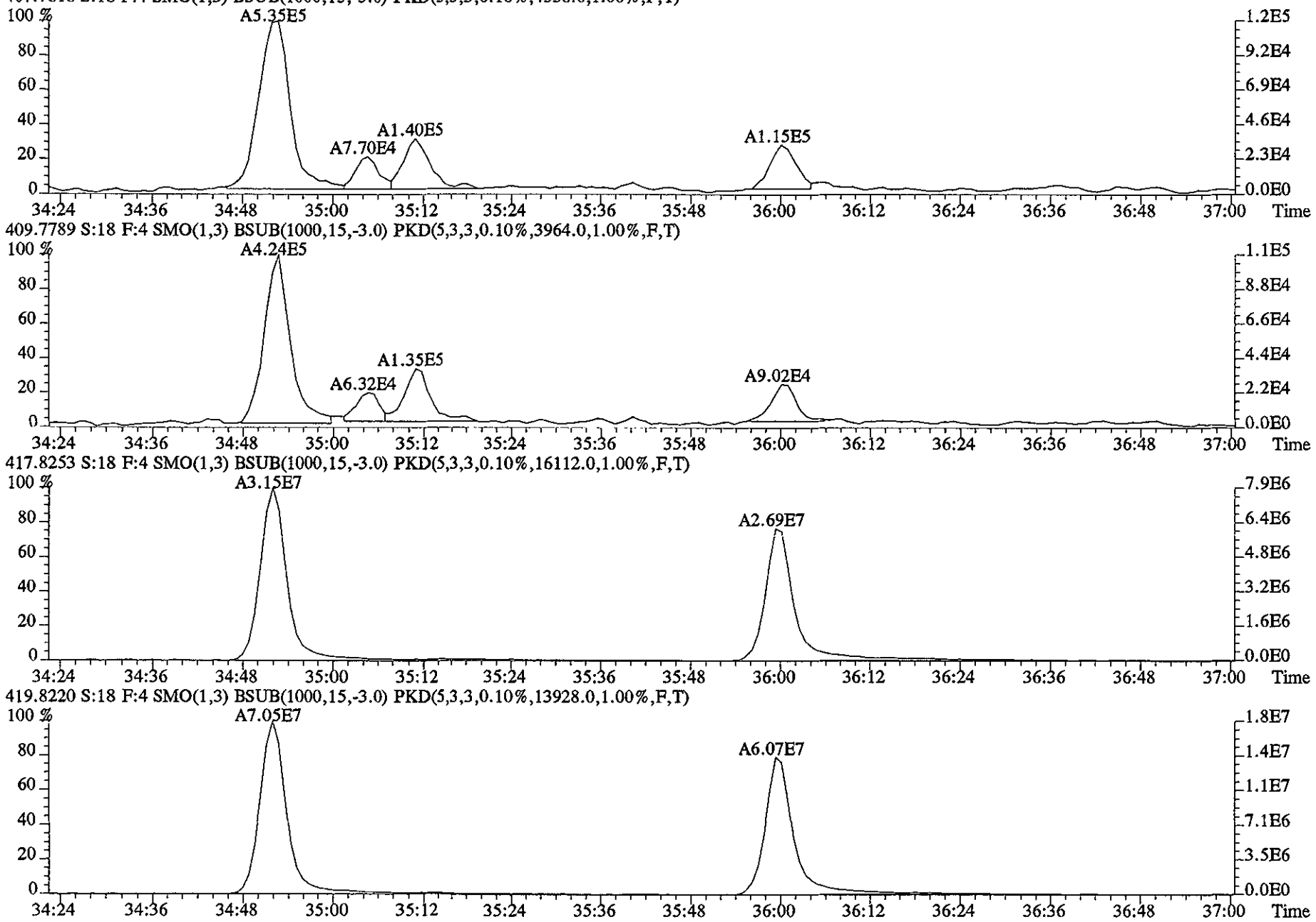
401.8559 S:18 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6020.0,1.00%,F,T)



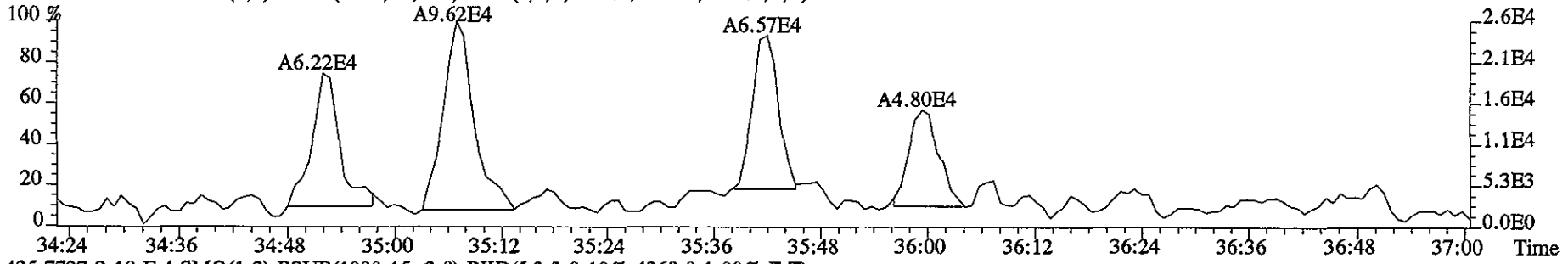
403.8529 S:18 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5820.0,1.00%,F,T)



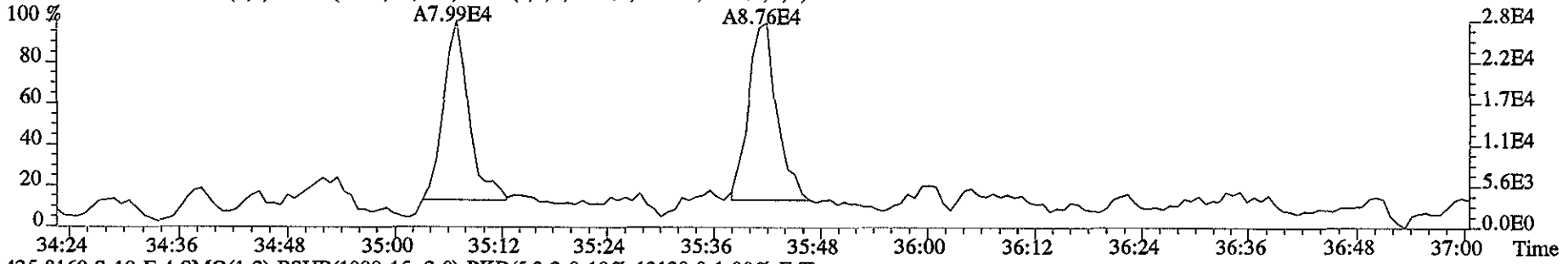
File:07DE104D5 #1-200 Acq: 7-DEC-2010 23:17:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#18 Text:MAQQ6-1-AA :G0L020446-5 Exp:DIOXINRES



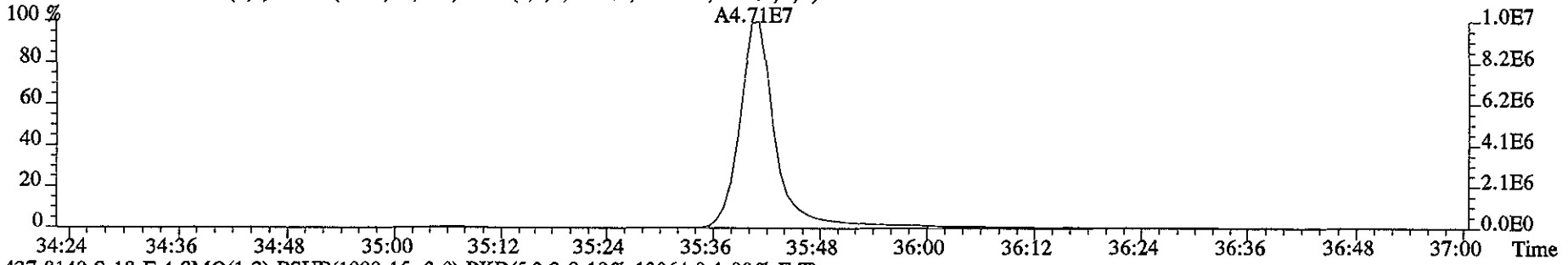
File:07DE104D5 #1-200 Acq: 7-DEC-2010 23:17:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#18 Text:MAQQ6-1-AA :G0L020446-5 Exp:DIOXINRES
423.7766 S:18 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3780.0,1.00%,F,T)



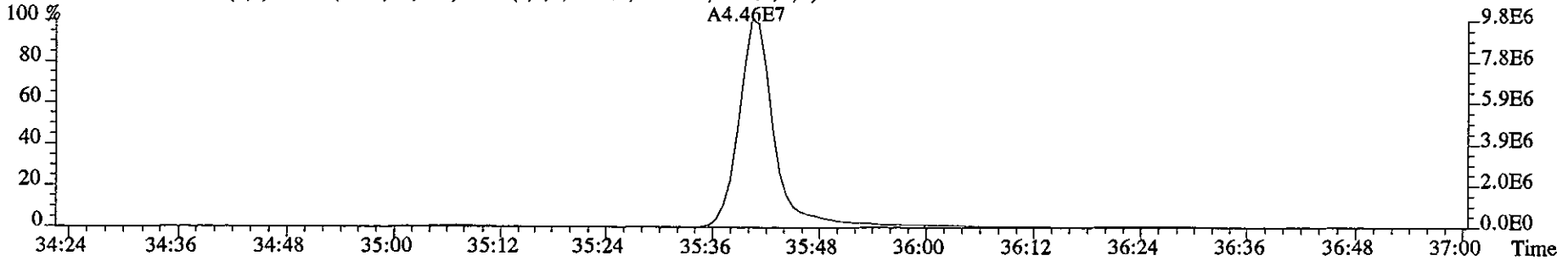
425.7737 S:18 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4268.0,1.00%,F,T)



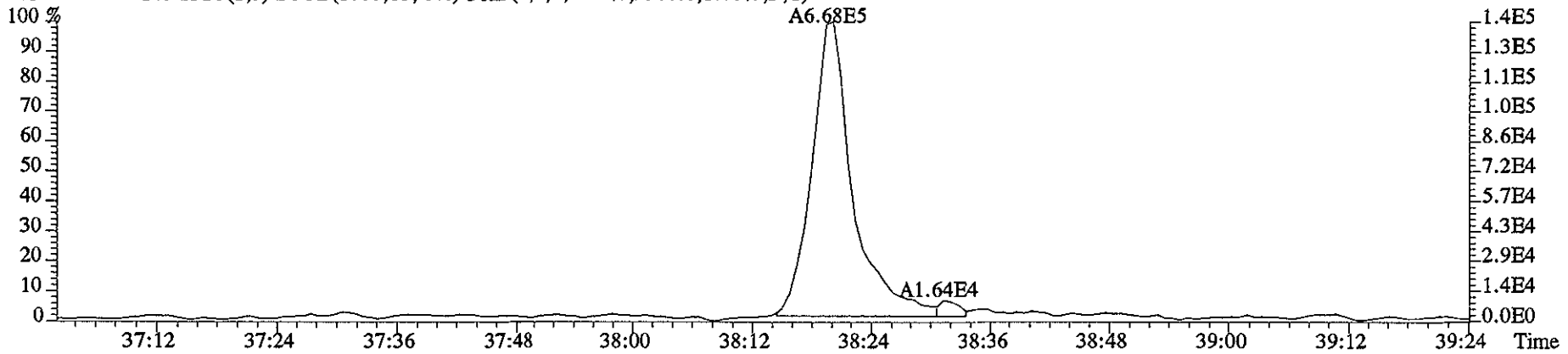
435.8169 S:18 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13128.0,1.00%,F,T)



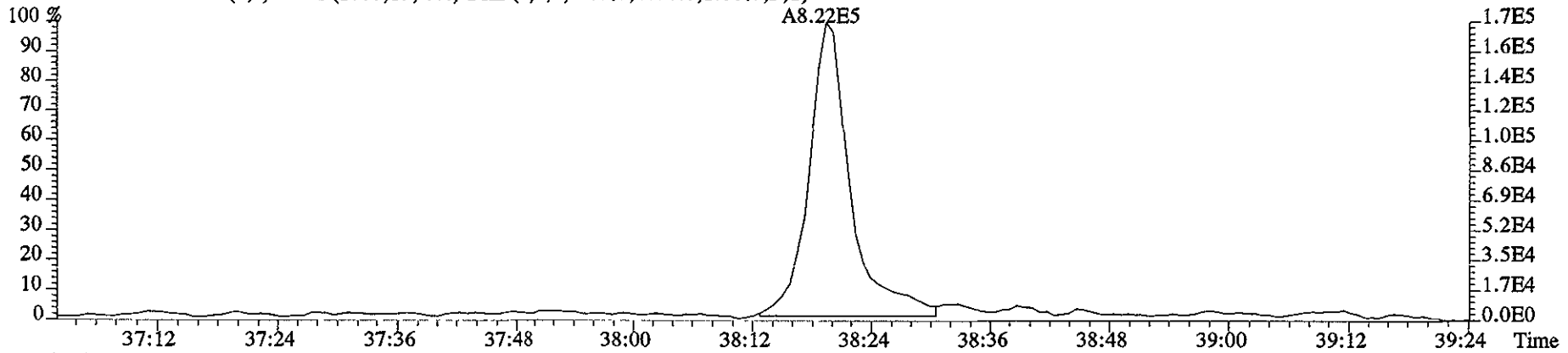
437.8140 S:18 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12064.0,1.00%,F,T)



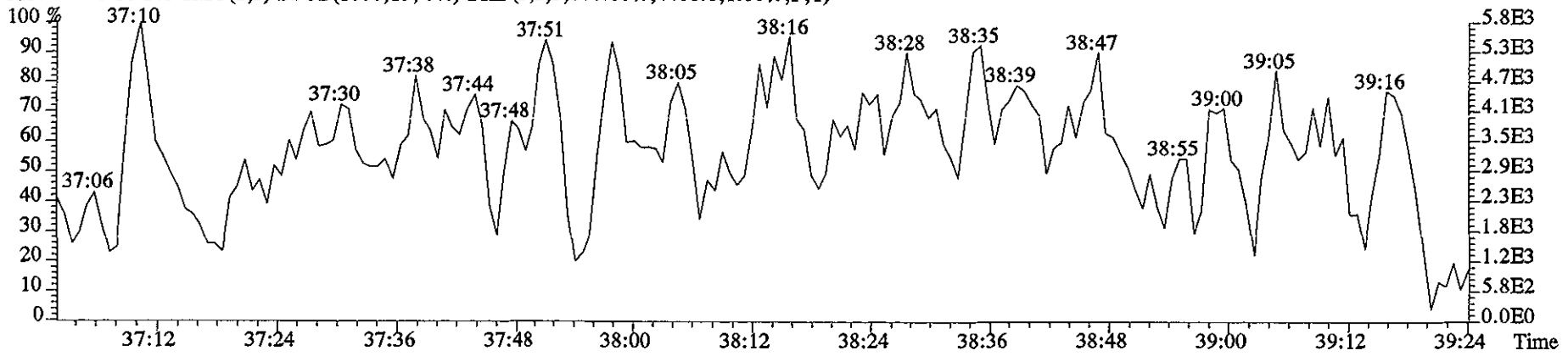
File:07DE104D5 #1-192 Acq: 7-DEC-2010 23:17:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#18 Text:MAQQ6-1-AA :G0L020446-5 Exp:DIOXINRES
441.7428 S:18 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2908.0,1.00%,F,T)



443.7399 S:18 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4656.0,1.00%,F,T)

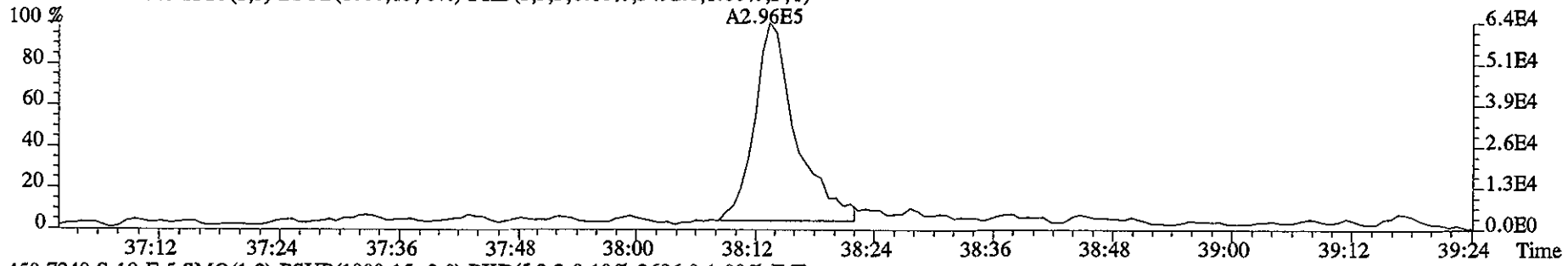


513.6775 S:18 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,4408.0,1.00%,F,T)

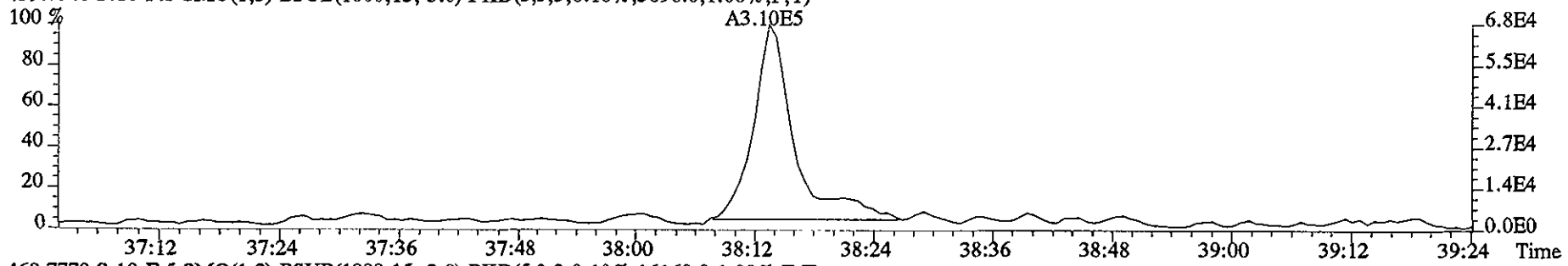


File:07DE104D5 #1-192 Acq: 7-DEC-2010 23:17:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#18 Text:MAQQ6-1-AA :G0L020446-5 Exp:DIOXINRES

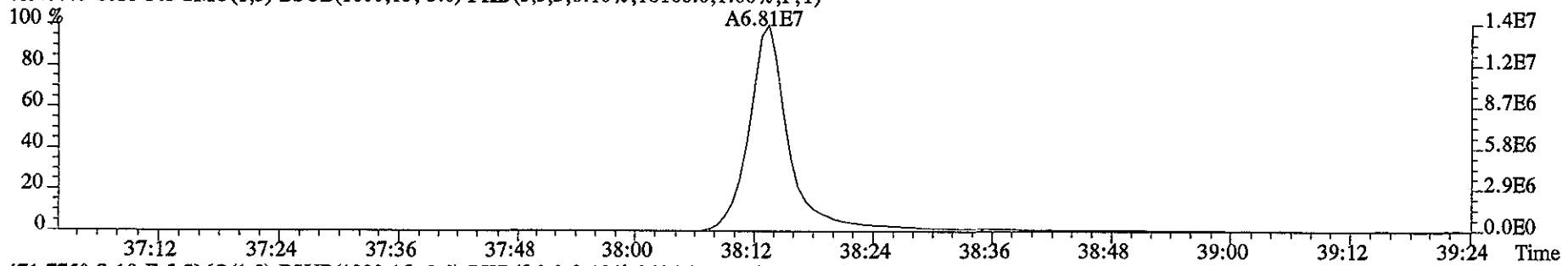
457.7377 S:18 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3492.0,1.00%,F,T)



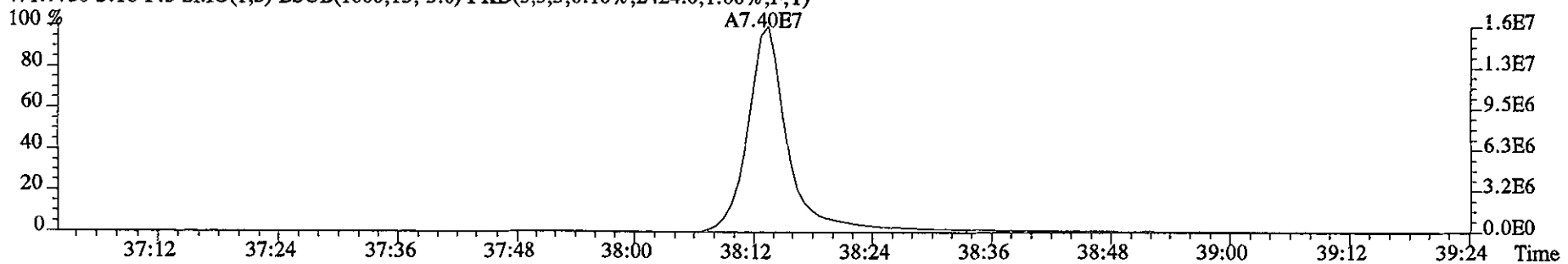
459.7348 S:18 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3696.0,1.00%,F,T)



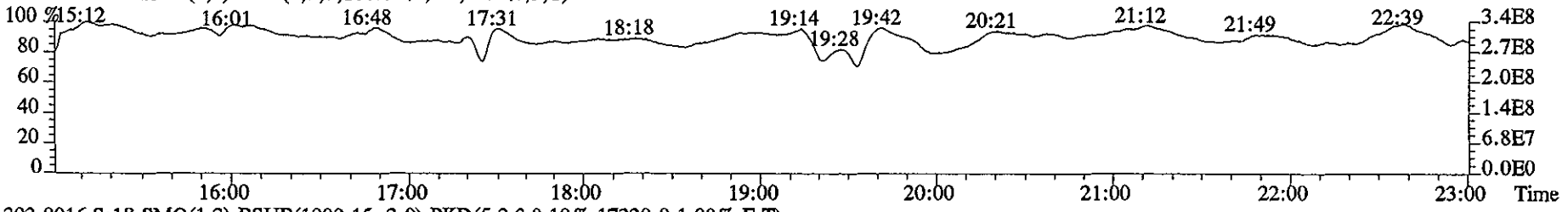
469.7779 S:18 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16168.0,1.00%,F,T)

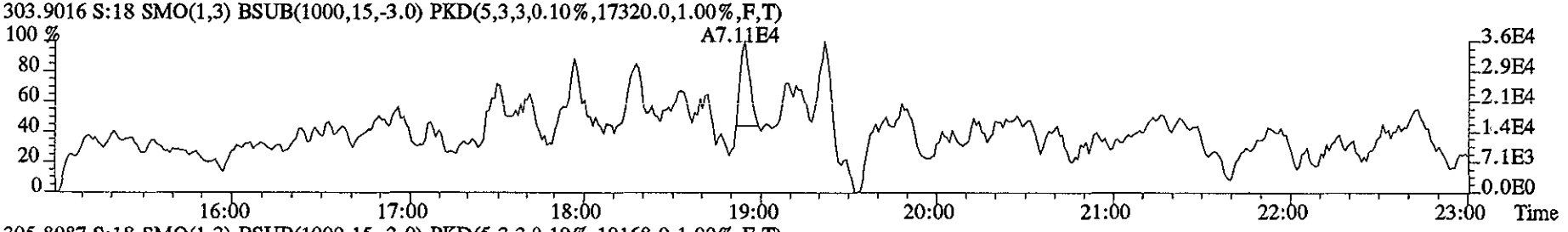


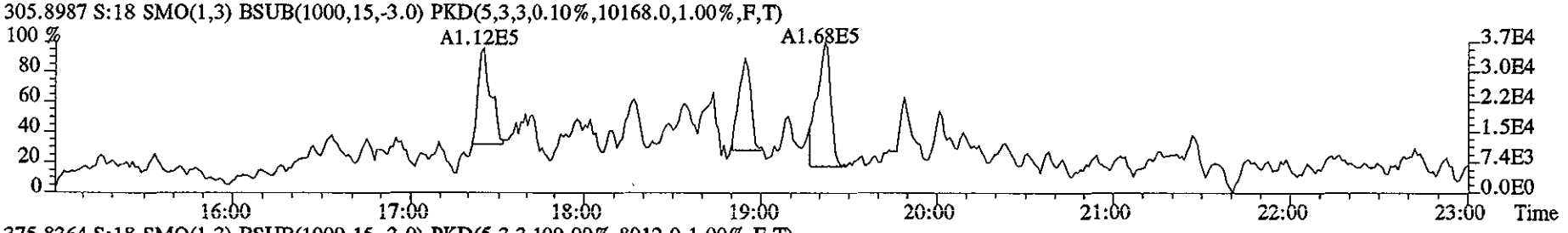
471.7750 S:18 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2424.0,1.00%,F,T)

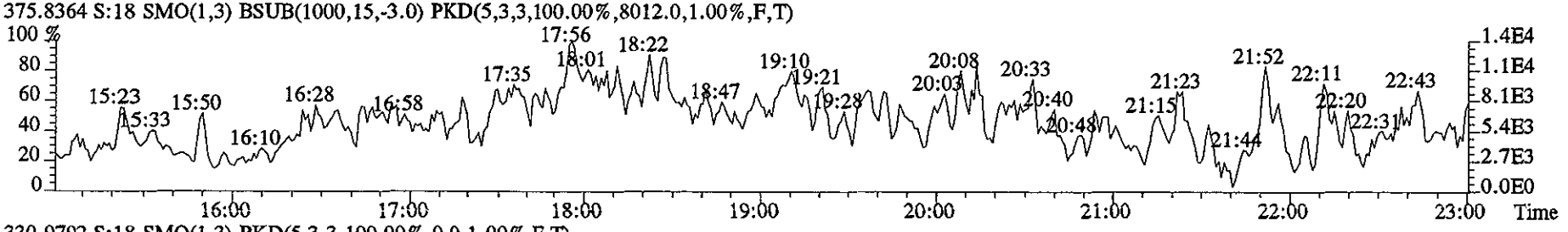


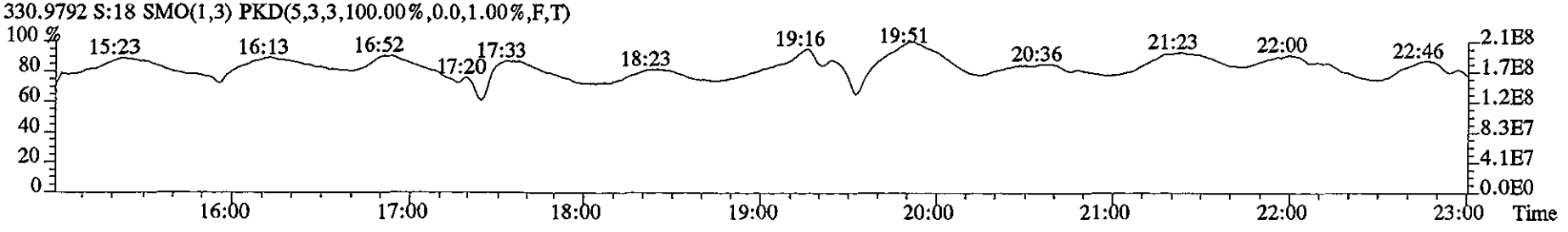
File:07DE104D5 #1-530 Acq: 7-DEC-2010 23:17:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#18 Text:MAQQ6-1-AA :G0L020446-5 Exp:DIOXINRES



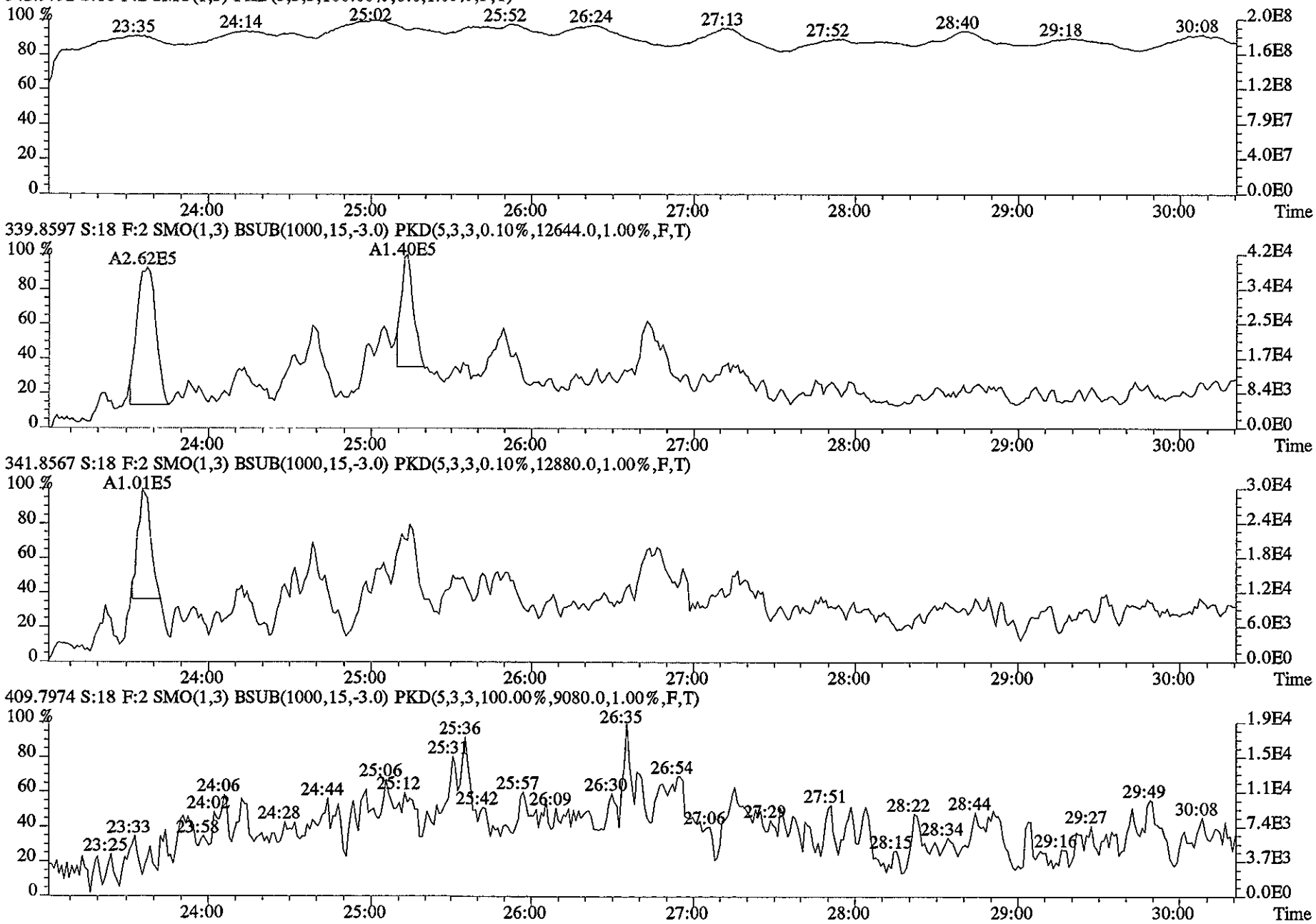




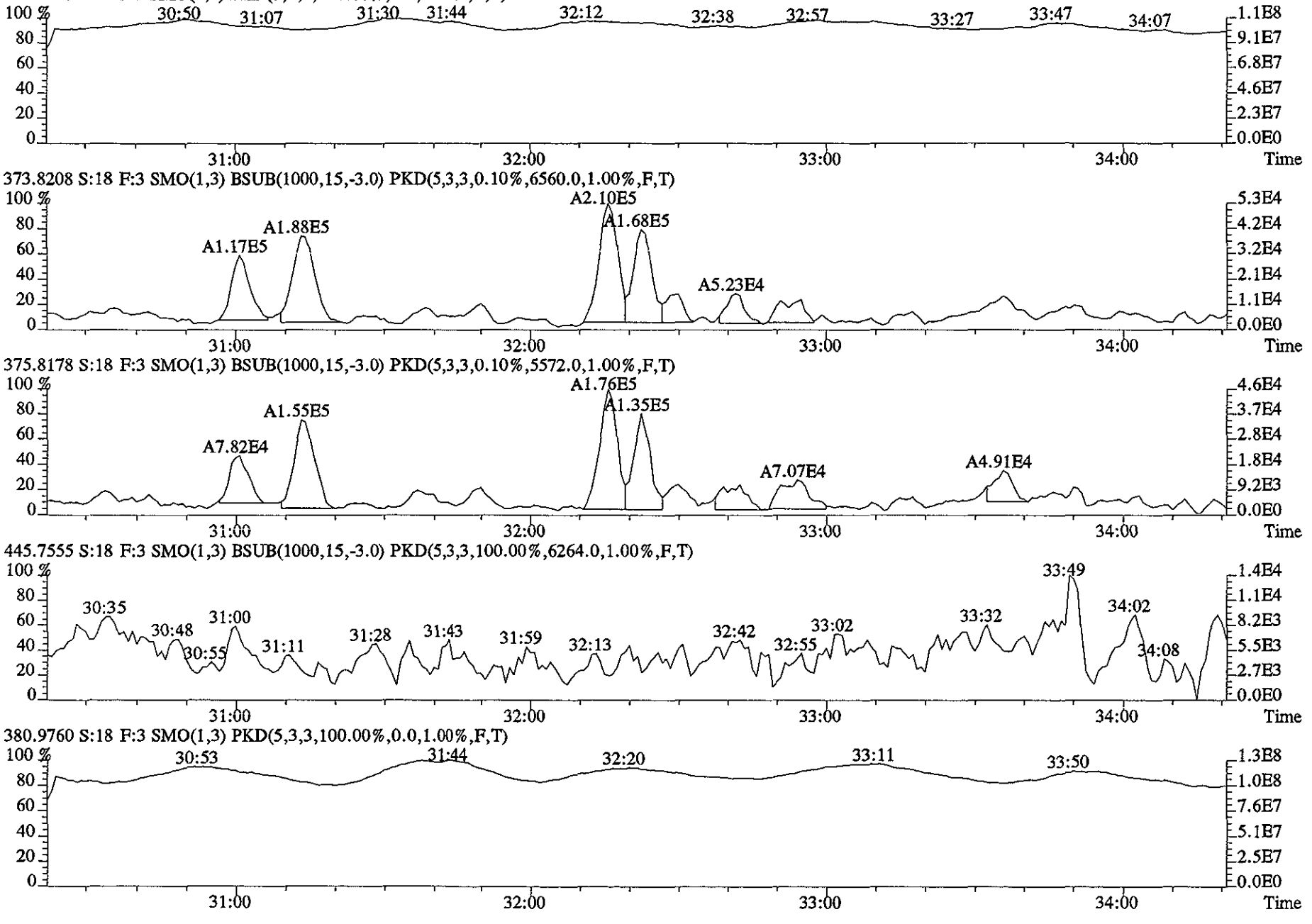




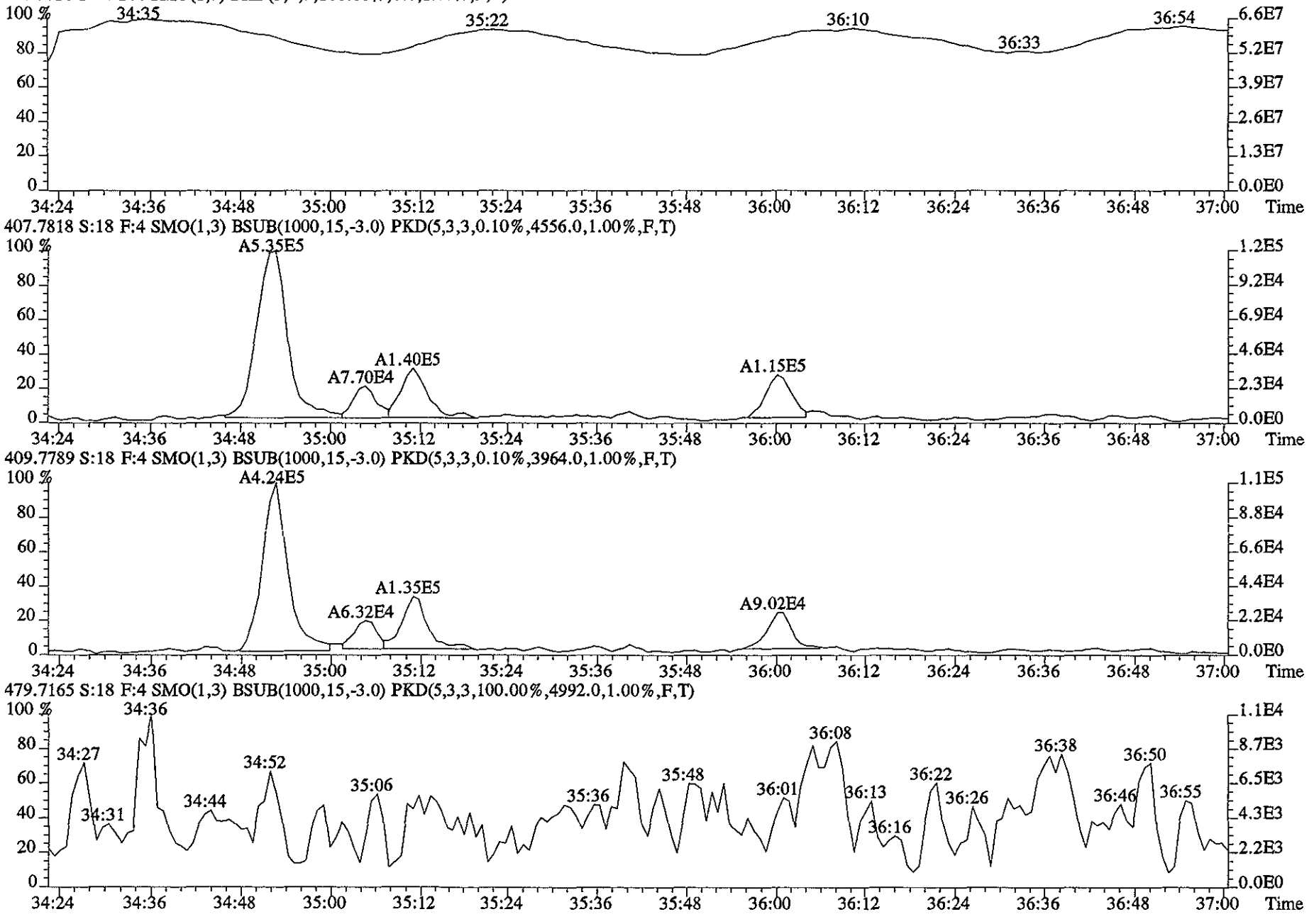
File:07DE104D5 #1-470 Acq: 7-DEC-2010 23:17:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#18 Text:MAQQ6-1-AA :G0L020446-5 Exp:DIOXINRES



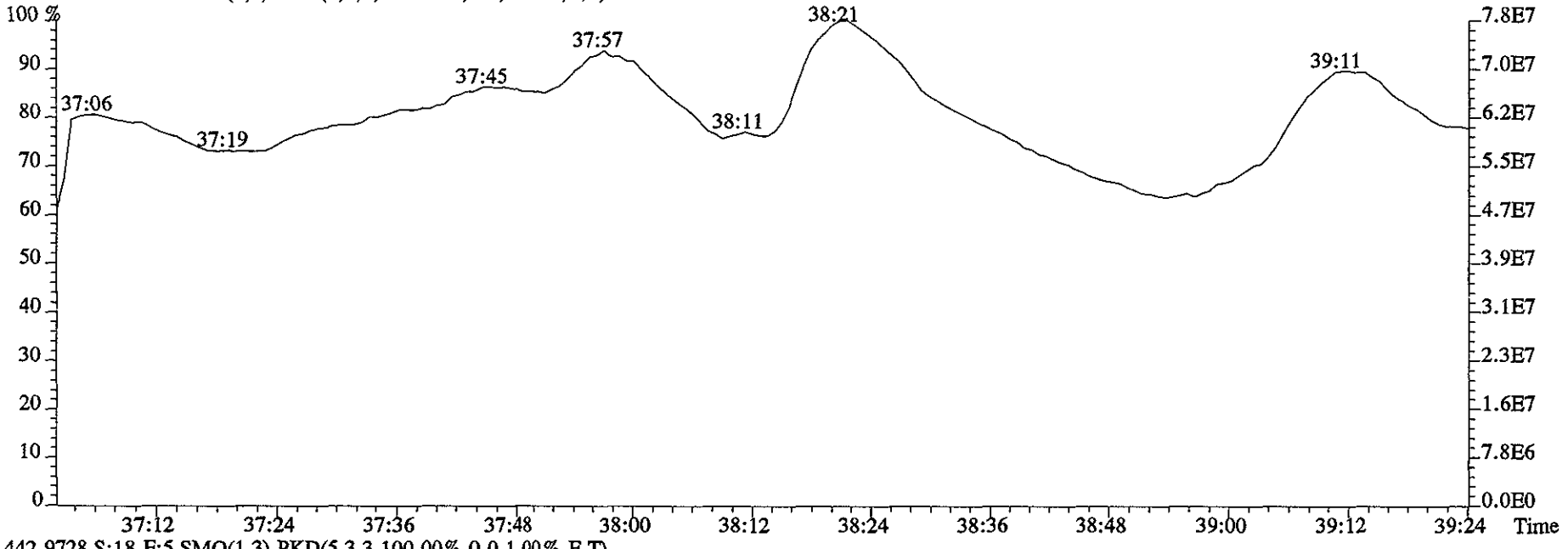
File:07DE104D5 #1-287 Acq: 7-DEC-2010 23:17:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#18 Text:MAQQ6-1-AA :G0L020446-5 Exp:DIOXINRES



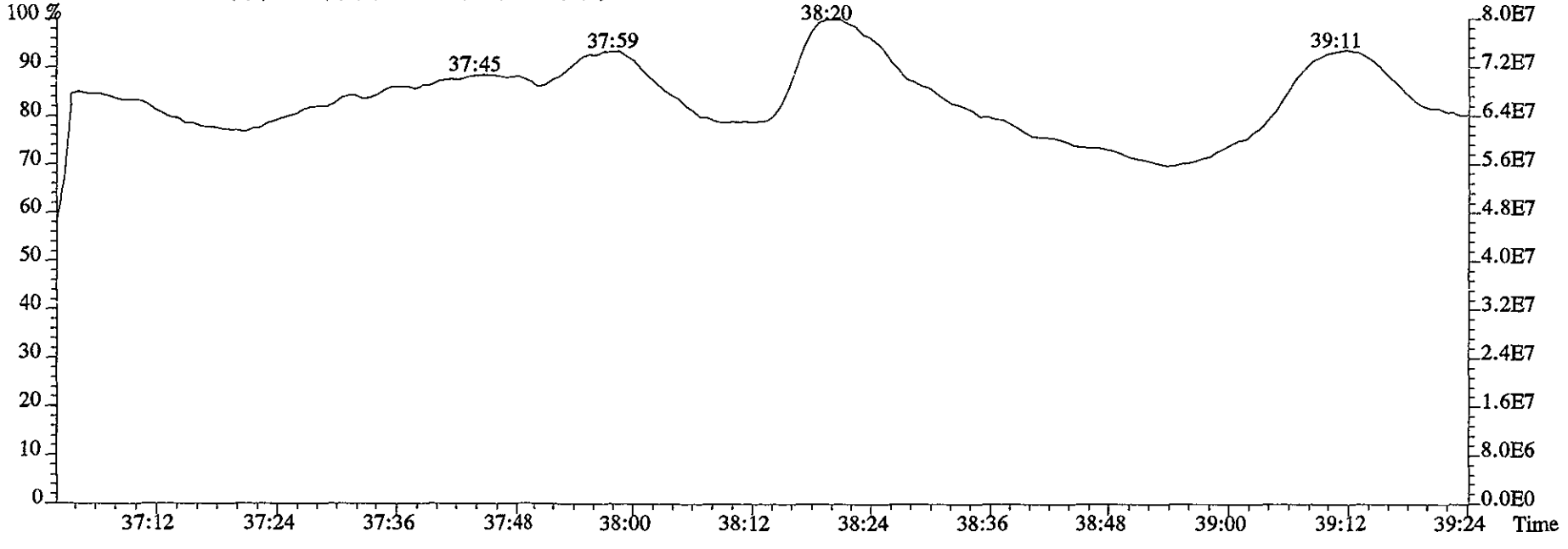
File:07DE104D5 #1-200 Acq: 7-DEC-2010 23:17:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#18 Text:MAQQ6-1-AA :G0L020446-5 Exp:DIOXINRES



File:07DE104D5 #1-192 Acq: 7-DEC-2010 23:17:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#18 Text:MAQQ6-1-AA :G0L020446-5 Exp:DIOXINRES
454.9728 S:18 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:18 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: MAQRD-1-AA Sample text: MAQRD-1-AA :G0L020446-8
Run #16 Filename: 07DE104D5 S: 19 I: 1 Results: 07DE104D5TO9
Acquired: 8-DEC-10 00:01:34 Processed: 8-DEC-10 07:53:25
Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5
Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

12/8/10 MRS

Name	Resp	RA		RT	RRF	Conc		EDL	Rec	M
13C-1,2,3,4-TCDD	217132900	0.81	y	19:55	-	130.023		-	-	n
13C-2,3,7,8-TCDF	251640000	0.80	y	19:19	1.23	3770.865		5.932	94.3	n
2,3,7,8-TCDF	992444	0.79	y	19:20	0.99	15.863 ✓		7.617	-	n
Total TCDF	3022600	0.86	y	17:24	0.99	48.311 38.589 ✓		7.617	-	n
13C-2,3,7,8-TCDD	190470900	0.81	y	20:07	0.91	3876.928		14.270	96.9	n
2,3,7,8-TCDD	*	*	n	NotFnd	0.98	*		6.465	-	n
Total TCDD	*	*	n	NotFnd	0.98	*		6.465	-	n
37Cl-2,3,7,8-TCDD	100861400	1.00	y	20:09	1.33	1597.313		5.495	99.8	n
13C-1,2,3,7,8-PeCDF	199877200	1.56	y	25:11	0.88	4203.092		12.575	105.1	n
1,2,3,7,8-PeCDF	865178	1.48	y	25:12	1.08	16.082 J		7.372	-	n
2,3,4,7,8-PeCDF	503904	1.64	y	26:44	1.05	see totals page 9.645 DL		7.591	-	n
Total F2 PeCDF	3930444	1.55	y	23:22	1.06	74.033		7.480	-	n
Total F1 PeCDF	234980	2.03	n	21:47	1.06	4.432 50.439 ✓		6.790	-	n
13C-1,2,3,7,8-PeCDD	140450600	1.60	y	27:34	0.66	3915.360		9.514	97.9	n
1,2,3,7,8-PeCDD	*	*	n	NotFnd	0.93	*		11.682	-	n
Total PeCDD	140614	1.35	y	25:51	0.93	4.327		11.682	-	n
13C-1,2,3,7,8,9-HxCDD	126742400	1.27	y	33:22	-	107.046		-	-	n
13C-1,2,3,4,7,8-HxCDF	115083000	0.56	y	32:16	1.04	3476.336		7.097	86.9	n
1,2,3,4,7,8-HxCDF	1461168	1.12	y	32:17	1.22	41.723 J		5.809	-	y
1,2,3,6,7,8-HxCDF	971383	1.04	n	32:23	1.28 1.54	26.344 JQ JQ 21.896		5.517	-	y
2,3,4,6,7,8-HxCDF	181989	1.55	n	32:53	1.23	5.128		5.733	-	y
1,2,3,7,8,9-HxCDF	204259	1.30	y	33:36	1.10	6.465 DL		6.439	-	y
Total HxCDF	6450908	1.12	y	31:01	1.21	12/8/10 MRS 184.199 169.234 164.786 ✓		5.855	-	y
13C-1,2,3,6,7,8-HxCDD	102557600	1.30	y	33:07	0.83	3895.957		7.654	97.4	n
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	1.04	*		6.056	-	n
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.16	*		5.402	-	n
1,2,3,7,8,9-HxCDD	*	*	n	NotFnd	1.18	*		5.315	-	n
Total HxCDD	222091	0.93	n	32:16	1.13	7.684		5.572	-	n
13C-1,2,3,4,6,7,8-HpCDF	97516000	0.45	y	34:52	0.91	3381.908		16.048	84.5	n
1,2,3,4,6,7,8-HpCDF	3444470	1.18	y	34:52	1.35	104.987 B		3.525	-	n
1,2,3,4,7,8,9-HpCDF	847545	1.12	y	36:01	1.09	31.795 J		4.338	-	n
Total HpCDF	6063005	1.18	y	34:52	1.22	196.345 ✓		3.889	-	n
13C-1,2,3,4,6,7,8-HpCDD	88533300	1.07	y	35:40	0.83	3380.230		8.870	84.5	n
1,2,3,4,6,7,8-HpCDD	239554	1.16	y	35:41	1.07	10.099 J		4.493	-	n
Total HpCDD	453441	3.66	n	34:52	1.07	19.116 16.652 ✓ ✓		4.493	-	n
13C-OCDD	131675000	0.89	y	38:13	0.62	6703.799		12.794	83.8	n
OCDF	4498740	0.90	y	38:21	1.37	199.463 ✓ J		6.213	-	n

OCDD	484918	0.90	y	38:13	1.20		24.565	JB	4.110	-	n

Run text: MAQRD-1-AA Sample text: MAQRD-1-AA :G0L020446-8
Run #16 Filename: 07DE104D5 S: 19 I: 1 Results: 07DE104D5TO9
Acquired: 8-DEC-10 00:01:34 Processed: 8-DEC-10 07:53:25
Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5
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	217132900	0.81	y	19:55	-		130.023		-	-	n
13C-2,3,7,8-TCDF	251640000	0.80	y	19:19	1.23		3770.865	✓	5.932	94.3	n
2,3,7,8-TCDF	992444	0.79	y	19:20	0.99		15.863		7.617	-	n
Total TCDF	3022600	0.86	y	17:24	0.99		~~48.311~~ 38.589		✓7.617	-	n
13C-2,3,7,8-TCDD	190470900	0.81	y	20:07	0.91		3876.928		~~14.279~~	96.9	n
2,3,7,8-TCDD	*	*	n	NotFnd	0.98		*		6.465	-	n
Total TCDD	*	*	n	NotFnd	0.98		*		6.465	-	n
37Cl-2,3,7,8-TCDD	100861400	1.00	y	20:09	1.33		1597.313		5.495	99.8	n
13C-1,2,3,7,8-PeCDF	199877200	1.56	y	25:11	0.88		4203.092		12.575	105.1	n
1,2,3,7,8-PeCDF	865178	1.48	y	25:12	1.08		16.082	J	7.372	-	n
2,3,4,7,8-PeCDF	503904	1.64	y	26:44	1.05		9.645	DL	7.591	-	n
Total F2 PeCDF	3930444	1.55	y	23:22	1.06		~~74.033~~		7.480	-	n
Total F1 PeCDF	234980	2.03	n	21:47	1.06		4 ~~.432~~ 50.439	✓	6.790	-	n
13C-1,2,3,7,8-PeCDD	140450600	1.60	y	27:34	0.66		3915.360		~~9.514~~	97.9	n
1,2,3,7,8-PeCDD	*	*	n	NotFnd	0.93		*		11.682	-	n
Total PeCDD	140614	1.35	y	25:51	0.93		~~4.327~~		11.682	-	n
13C-1,2,3,7,8,9-HxCDD	126742400	1.27	y	33:22	-		107.046		-	-	n
13C-1,2,3,4,7,8-HxCDF	115083000	0.56	y	32:16	1.04		3476.336		7.097	86.9	n
1,2,3,4,7,8-HxCDF	1389092	1.12	y	32:17	1.22		39.665		5.809	-	n
1,2,3,6,7,8-HxCDF	889833	1.01	n	32:23	~~1.28~~ 1.54		24.132		5.517	-	n
2,3,4,6,7,8-HxCDF	449976	1.23	y	32:52	1.23		12.680		5.733	-	n
1,2,3,7,8,9-HxCDF	300119	1.38	y	33:36	1.10		9.499		6.439	-	n
Total HxCDF	6068683	1.12	y	31:01	1.21		173.464		5.855	-	n
13C-1,2,3,6,7,8-HxCDD	102557600	1.30	y	33:07	0.83		3895.957		7.654	97.4	n
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	1.04		*		6.056	-	n
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.16		*		5.402	-	n
1,2,3,7,8,9-HxCDD	*	*	n	NotFnd	1.18		*		5.315	-	n
Total HxCDD	222091	0.93	n	32:16	1.13		7.684		5.572	-	n
13C-1,2,3,4,6,7,8-HpCDF	97516000	0.45	y	34:52	0.91		3381.908		16.048	84.5	n
1,2,3,4,6,7,8-HpCDF	3444470	1.18	y	34:52	1.35		104.987	B	3.525	-	n
1,2,3,4,7,8,9-HpCDF	847545	1.12	y	36:01	1.09		31.795	J	4.338	-	n
Total HpCDF	6063005	1.18	y	34:52	1.22		196.345		3.889	-	n
13C-1,2,3,4,6,7,8-HpCDD	88533300	1.07	y	35:40	0.83		3380.230		8.870	84.5	n
1,2,3,4,6,7,8-HpCDD	239554	1.16	y	35:41	1.07		10.099	J	4.493	-	n
Total HpCDD	453441	3.66	n	34:52	1.07		~~19.116~~ 16.652		4.493	-	n
13C-OCDD	131675000	0.89	y	38:13	0.62		6703.799		12.794	83.8	n
OCDF	4498740	0.90	y	38:21	1.37		199.463	✓	6.213	-	n

OCDD	484918	0.90	y	38:13	1.20	24.565	JB	4.110	-	n

Run Text: MAQRD-1-AA Sample text: MAQRD-1-AA :G0L020446-8

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:5
Run: 16 File: 07DE104D5 S:19 Acq: 8-DEC-10 00:01:34
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D¶

Amount:	24.156 of which	7.931 named and	16.224	unnamed
Conc:	48.311 of which	15.863 named and	32.449	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?	
	1	17:24	0.863	y	13.719	397696	4.063	y	n	
						460638	6.488	y	n	
	2	18:17	0.700	y	6.701	172677	2.145	n	n	
						246588	3.860	y	n	
	3	18:35	0.338	n	3.021	82236	1.441	n	n	38.583
						243007	3.454	y	n	
	4	18:54	0.821	y	9.007	253993	3.084	y	n	
						309528	5.181	y	n	
2,3,7,8-TCDF	5	19:20	0.793	y	15.863	439018	4.384	y	n	
						553426	6.938	y	n	

Run Text: MAQRD-1-AA Sample text: MAQRD-1-AA :G0L020446-8

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:0
Run: 16 File: 07DE104D5 S:19 Acq: 8-DEC-10 00:01:34
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D¶

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: MAQRD-1-AA Sample text: MAQRD-1-AA :G0L020446-8

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:6
Run: 16 File: 07DE104D5 S:19 Acq: 8-DEC-10 00:01:34
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D¶

Amount:	37.017 of which	12.863 named and	24.153 unnamed
Conc:	74.033 of which	25.726 named and	48.307 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?	
	1	23:22	1.552	y	6.183	199357	3.592	y	n	KEEP 2.5:N
						128464	2.755	n	n	
	2	23:37	1.523	y	34.358	1099772	14.851	y	n	
						721977	9.974	y	n	
1,2,3,7,8-PeCDF	3	25:12	1.480	y	16.082	516307	7.394	y	n	
						348871	5.630	y	n	
	4	25:50	1.653	y	6.622	218770	3.138	y	n	
						132352	1.981	n	n	
2,3,4,7,8-PeCDF	5	26:44	1.639	y	9.645	312981	3.848	y	n	PV
						190923	2.265	n	n	
	6	27:02	0.849	n	1.144	36879	1.085	n	n	
						43422	0.932	n	n	50.43%

Run Text: MAQRD-1-AA Sample text: MAQRD-1-AA :G0L020446-8

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:1
Run: 16 File: 07DE104D5 S:19 Acq: 8-DEC-10 00:01:34
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

Amount:	2.216	of which	* named and	2.216	unnamed
Conc:	4.432	of which	* named and	4.432	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	21:47	2.032	n	4.432	187288	3.433	y	n
						92149	2.257	n	n

Run Text: MAQRD-1-AA Sample text: MAQRD-1-AA :G0L020446-8

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:1
Run: 16 File: 07DE104D5 S:19 Acq: 8-DEC-10 00:01:34
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

Amount:	2.164	of which	* named and	2.164	unnamed
Conc:	4.327	of which	* named and	4.327	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	25:51	1.351	y	4.327	80804	2.090	n	n
						59809	1.537	n	n

Run Text: MAQRD-1-AA Sample text: MAQRD-1-AA :G0L020446-8

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:10
Run: 16 File: 07DE104D5 S:19 Acq: 8-DEC-10 00:01:34
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

Amount:	86.732	of which	42.988	named and	43.744	unnamed		
Conc:	173.464	of which	85.976	named and	87.488	unnamed		

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	31:01	1.124 y	21.576	396665	9.824	y	n
					352984	8.734	y	n
	2	31:13	1.114 y	40.743	745935	17.544	y	n
					669631	16.176	y	n
	3	31:37	0.804 n	4.518	86893	2.519	n	n
					108059	2.973	n	n
	4	31:50	1.007 n	6.063	116613	3.334	y	n
					115815	3.445	y	n
1,2,3,4,7,8-HxCDF	5	32:17	1.118 y	39.665	733367	18.656	y	n
					655725	16.754	y	n
1,2,3,6,7,8-HxCDF	6	32:23	1.013 n	24.132	492586	14.901	y	n
					486412	14.678	y	n
	7	32:29	1.491 n	7.200	166568	4.839	y	n
					111683	3.778	y	n
	8	32:42	1.146 y	7.387	137050	3.149	y	n
					119605	2.572	n	n
2,3,4,6,7,8-HxCDF	9	32:52	1.230 y	12.680	248209	4.788	y	n
					201767	3.816	y	n
1,2,3,7,8,9-HxCDF	10	33:36	1.383 y	9.499	174162	3.189	y	n
					125957	2.537	n	n

See next page 6A 12/8/10 MA

Run Text: MAQRD-1-AA Sample text: MAQRD-1-AA :G0L020446-8

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:2
Run: 16 File: 07DE104D5 S:19 Acq: 8-DEC-10 00:01:34
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

Amount:	3.842	of which	*	named and	3.842	unnamed		
Conc:	7.684	of which	*	named and	7.684	unnamed		

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:16	0.929 n	4.439	71014	2.222	n	n

Run Text: MAQRD-1-AA Sample text: MAQRD-1-AA :G0L020446-8

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? yes #Hom:12
Run: 16 File: 07DE104D5 S:19 Acq:8-DEC-10 00:01:34
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

Amount:	92.100	of which	39.830	named and	52.270	unnamed			
Conc:	184.199	of which	79.660	named and	104.539	unnamed			

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?	
	1	31:01	1.124	y	21.576	396665	9.824	y	n	
						352984	8.734	y	n	
	2	31:13	1.114	y	40.743	745935	17.544	y	n	
						669631	16.176	y	n	
	3	31:37	1.144	y	6.670	123668	2.910	n	y	
						108059	2.973	n	n	
	4	31:50	1.258	y	7.527	145704	3.648	y	y	
						115815	3.445	y	n	
1,2,3,4,7,8-HxCDF	5	32:17	1.116	y	41.723	770597	19.059	y	y	
					21.696	690571	17.182	y	y	
1,2,3,6,7,8-HxCDF	6	32:23	1.038	n	~~26.344~~	537730	15.304	y	y	
						518241	15.105	y	y	
	7	32:29	1.264	y	9.172	177924	5.242	y	y	
						140734	4.205	y	y	
	8	32:42	1.091	y	8.551	155020	3.252	y	y	
						142090	2.805	n	y	
	9	32:52	0.975	n	6.928	133250	4.891	y	y	
						136697	4.048	y	y	
2,3,4,6,7,8-HxCDF	10	32:53	1.549	n	5.128	125872	4.215	y	y	< EDL
						81245	3.229	y	y	
	11	33:32	1.266	y	3.372	65474	2.365	n	y	
						51697	1.865	n	y	
1,2,3,7,8,9-HxCDF	12	33:36	1.300	y	6.465	115432	3.235	y	y	DL
						88827	2.679	n	y	See Chro <S:N

~~169.234~~

					76402	2.472	n	n
	2	32:31	1.470	n	3.246	61572	2.102	n	n
						41878	1.773	n	n

Run Text: MAQRD-1-AA Sample text: MAQRD-1-AA :G0L020446-8

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4
Run: 16 File: 07DE104D5 S:19 Acq: 8-DEC-10 00:01:34
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

Amount:	98.172 of which	68.390 named and	29.782 unnamed
Conc:	196.344 of which	136.781 named and	59.563 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	34:52	1.181	y	104.986	1864878	100.088	y	n
						1579588	76.308	y	n
	2	35:04	1.177	y	23.114	371502	20.485	y	n
						315750	14.411	y	n
	3	35:11	1.288	n	36.449	684088	32.241	y	n
						531244	23.941	y	n
1,2,3,4,7,8,9-HpCDF	4	36:01	1.115	y	31.794	446859	22.987	y	n
						400686	17.870	y	n

Run Text: MAQRD-1-AA Sample text: MAQRD-1-AA :G0L020446-8

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:4
Run: 16 File: 07DE104D5 S:19 Acq: 8-DEC-10 00:01:34
Tables: Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D

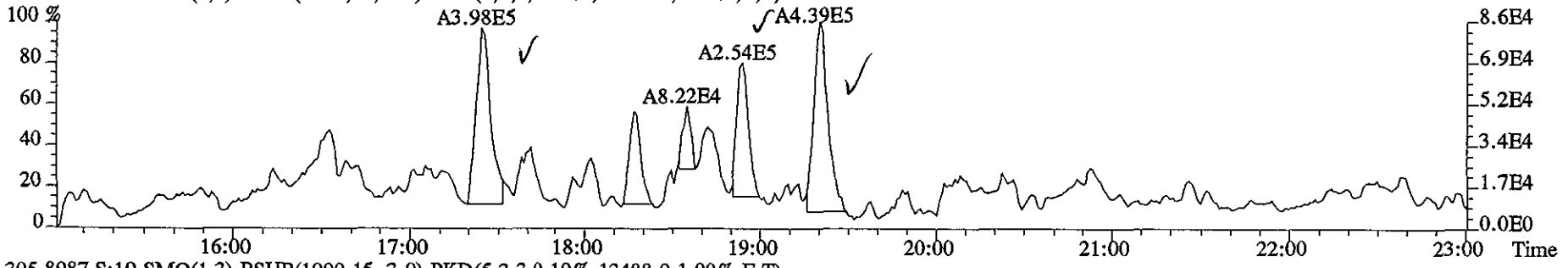
Amount:	9.558 of which	5.050 named and	4.509 unnamed
Conc:	19.116 of which	10.099 named and	9.017 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	34:52	3.665	n	1.283	54673	3.631	y	n
						14919	1.393	n	n
	2	35:07	1.279	n	6.553	97493	6.044	y	n
						76201	5.459	y	n
1,2,3,4,6,7,8-HpCDD	3	35:41	1.157	y	10.099	128504	6.152	y	n
						111050	6.386	y	n
	4	36:00	3.522	n	1.181	48346	3.511	y	n
						13727	1.249	n	n

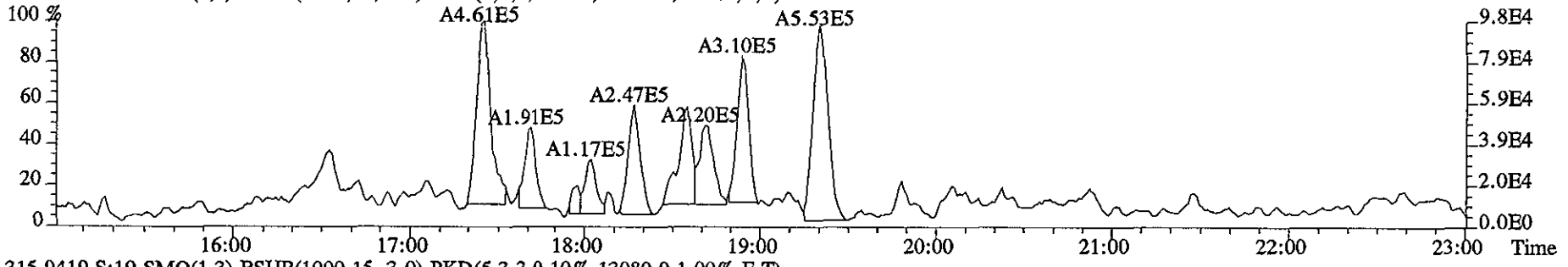
16.652

File:07DE104D5 #1-530 Acq: 8-DEC-2010 00:01:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#19 Text:MAQRD-1-AA :G0L020446-8 Exp:DIOXINRES

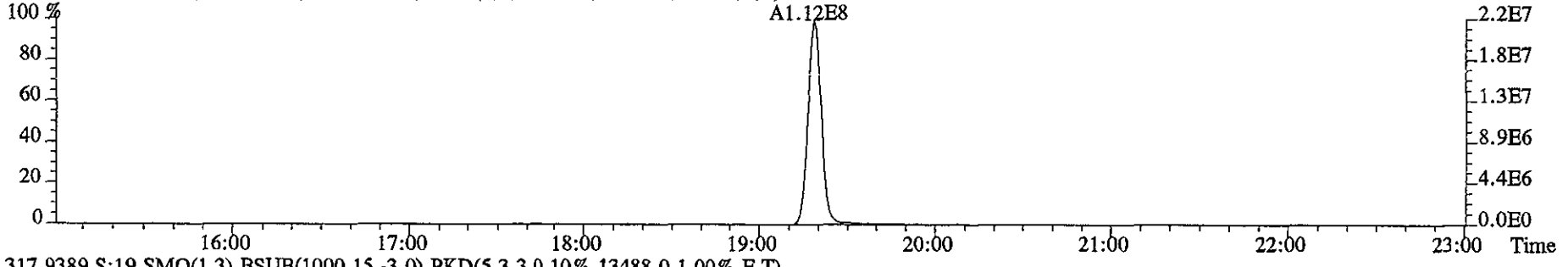
303.9016 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18004.0,1.00%,F,T)



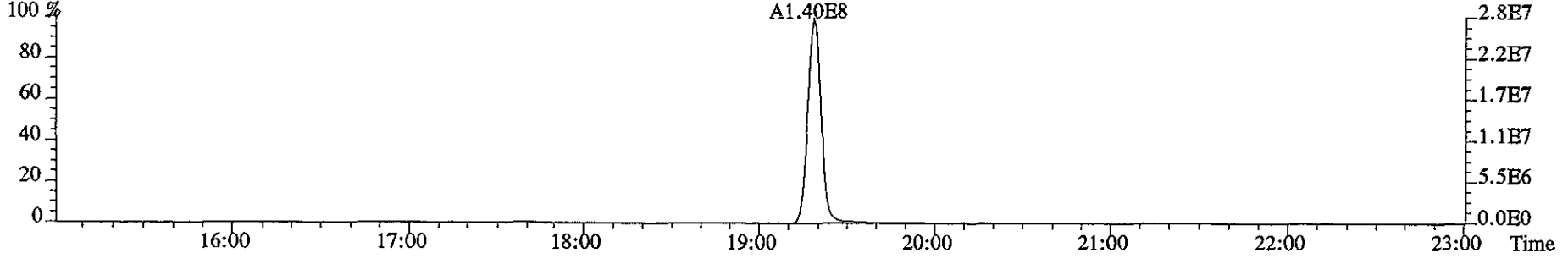
305.8987 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13488.0,1.00%,F,T)



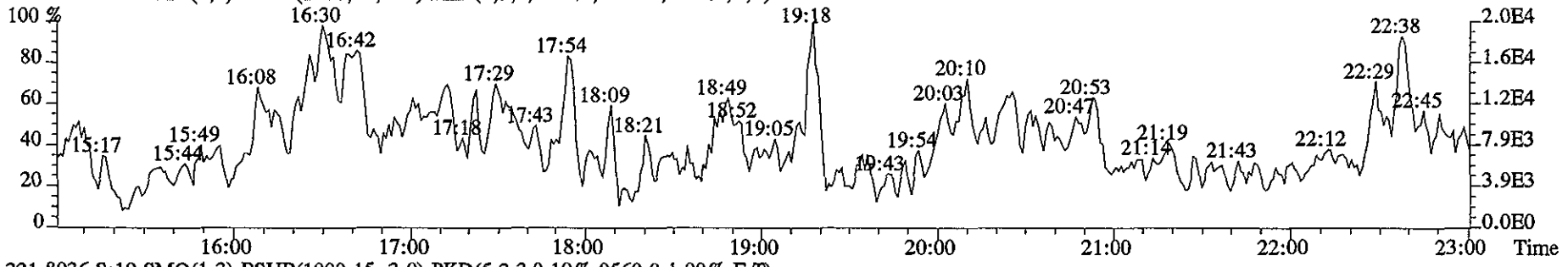
315.9419 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13080.0,1.00%,F,T)



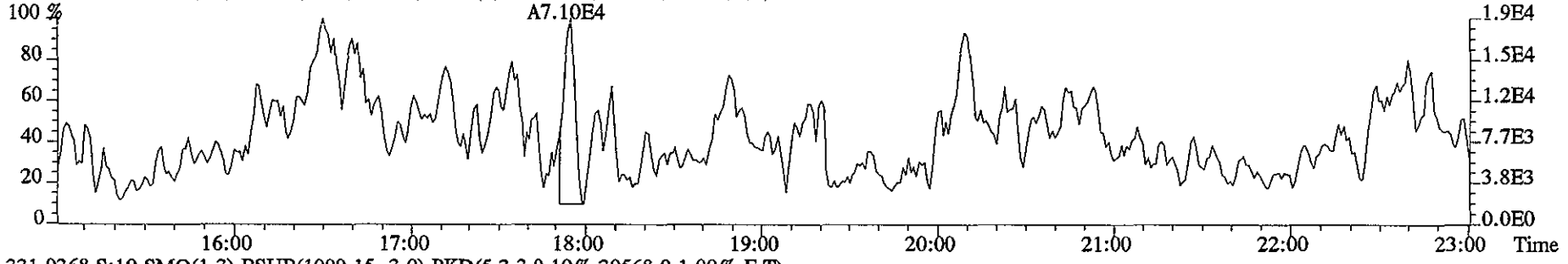
317.9389 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13488.0,1.00%,F,T)



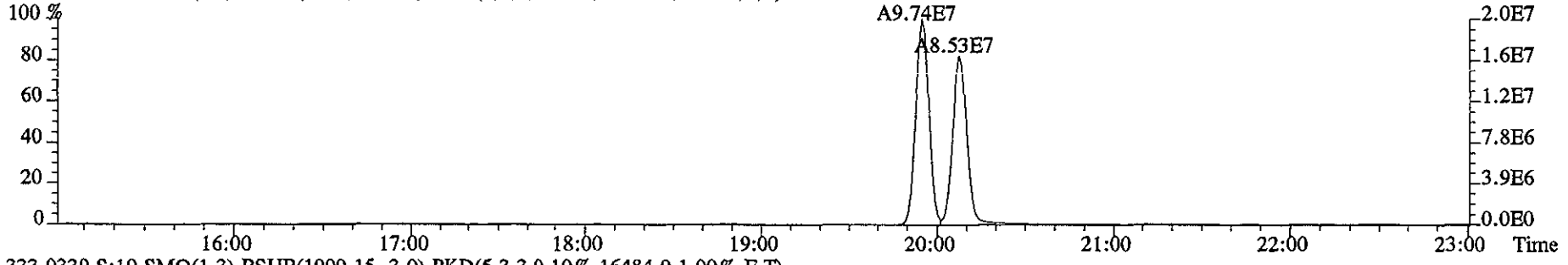
File:07DE104D5 #1-530 Acq: 8-DEC-2010 00:01:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#19 Text:MAQRD-1-AA :G0L020446-8 Exp:DIOXINRES
319.8965 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9552.0,1.00%,F,T)



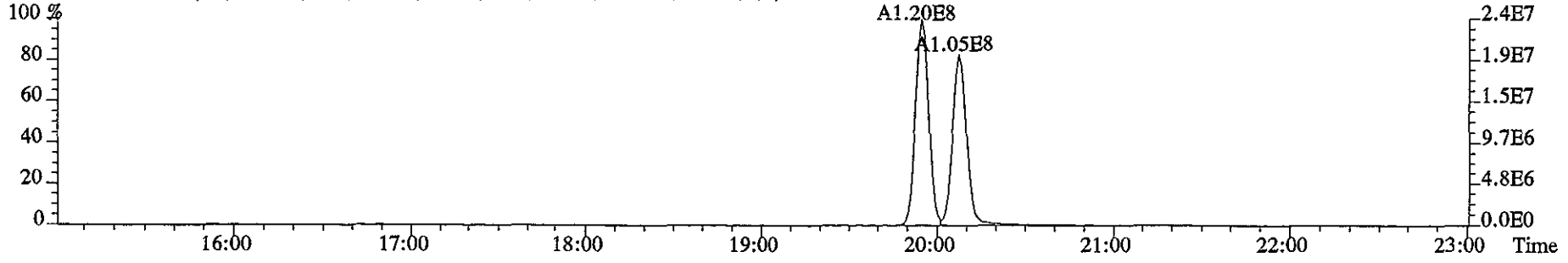
321.8936 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9560.0,1.00%,F,T)



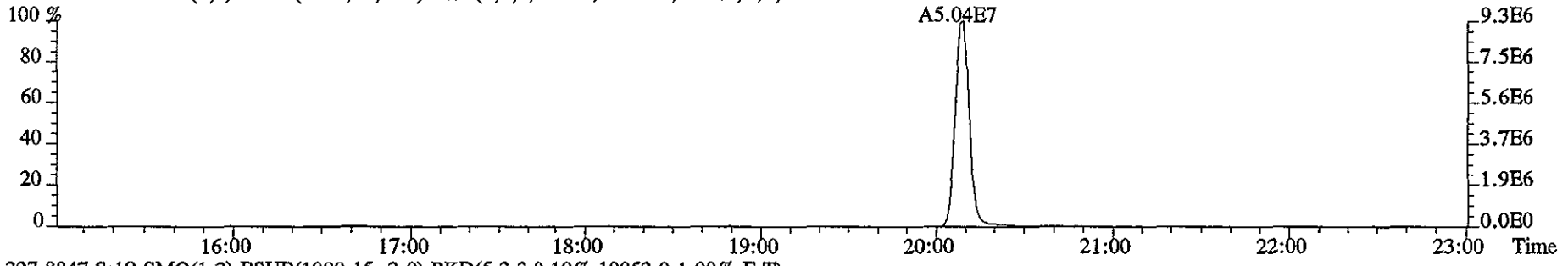
331.9368 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,30568.0,1.00%,F,T)



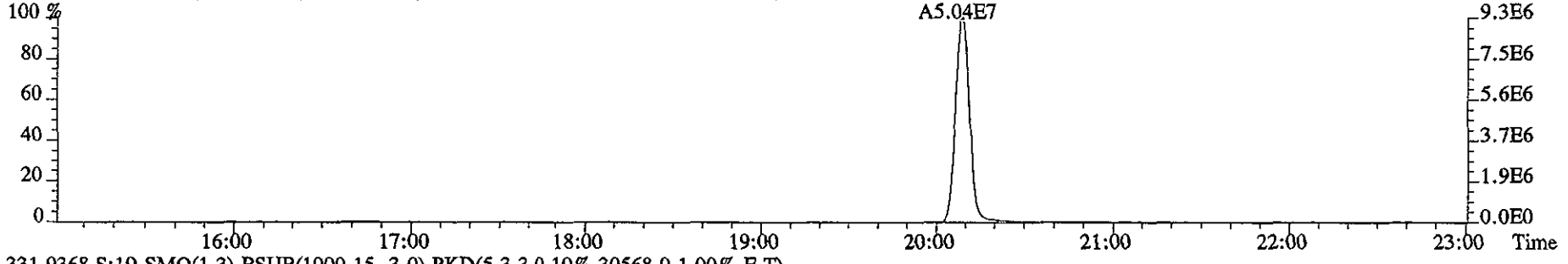
333.9339 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16484.0,1.00%,F,T)



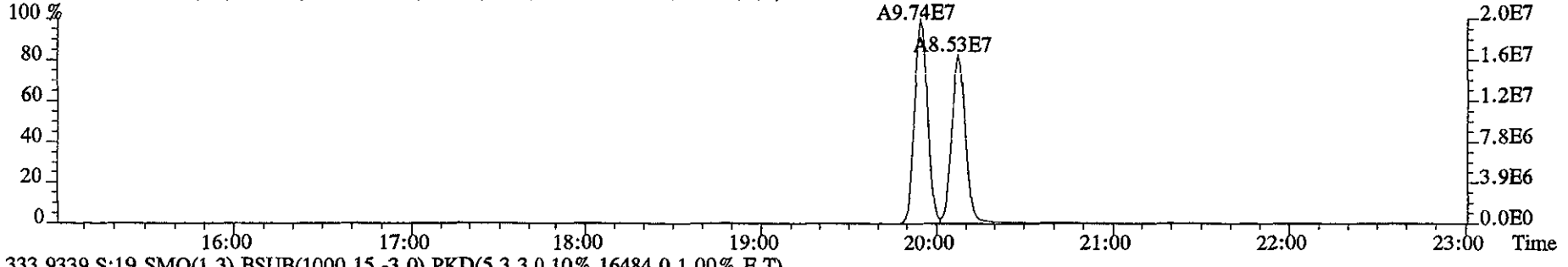
File:07DE104D5 #1-530 Acq: 8-DEC-2010 00:01:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#19 Text:MAQRD-1-AA :G0L020446-8 Exp:DIOXINRES
327.8847 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10952.0,1.00%,F,T)



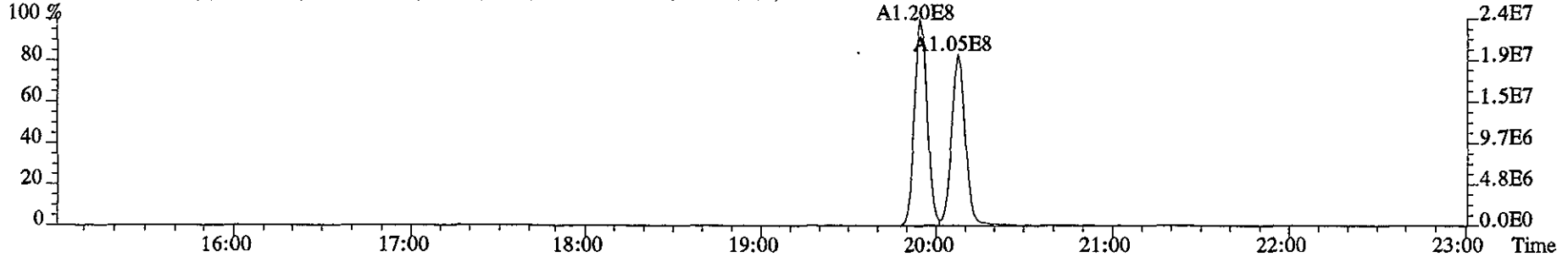
327.8847 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10952.0,1.00%,F,T)



331.9368 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,30568.0,1.00%,F,T)

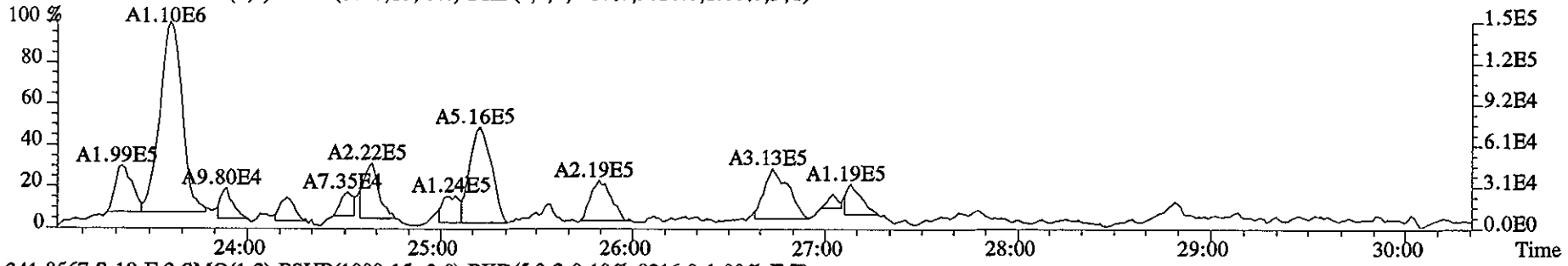


333.9339 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16484.0,1.00%,F,T)

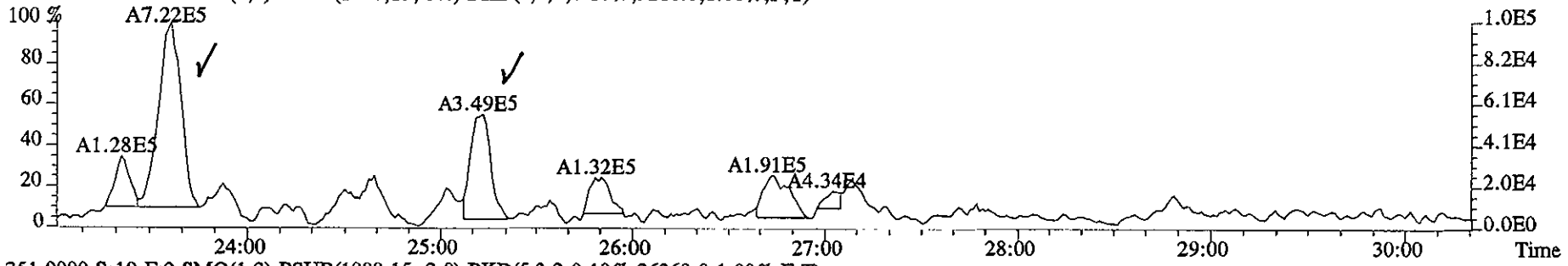


File:07DE104D5 #1-470 Acq: 8-DEC-2010 00:01:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#19 Text:MAQRD-1-AA :G0L020446-8 Exp:DIOXINRES

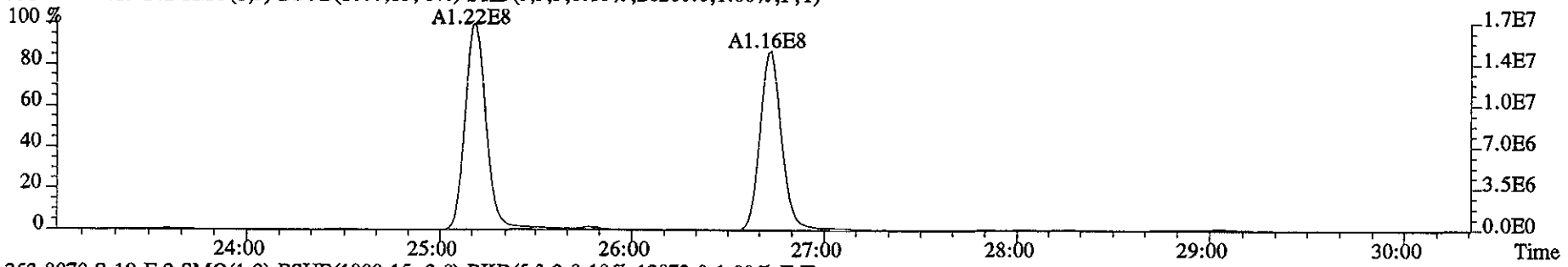
339.8597 S:19 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9520.0,1.00%,F,T)



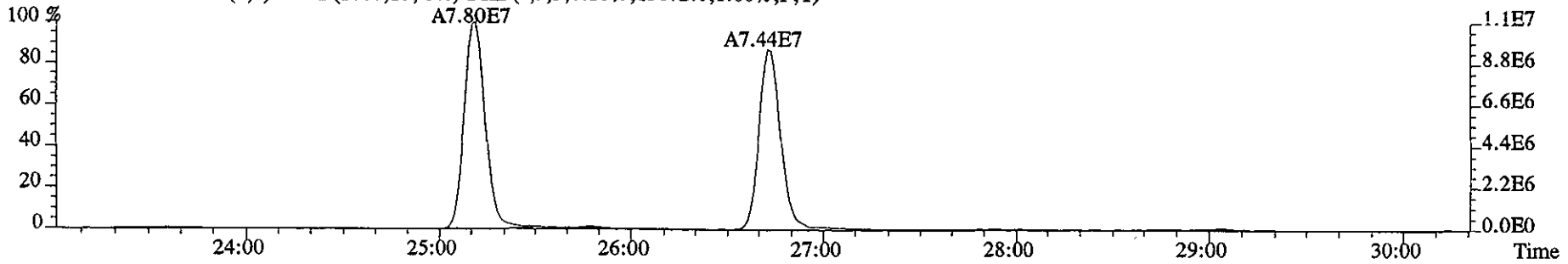
341.8567 S:19 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9216.0,1.00%,F,T)



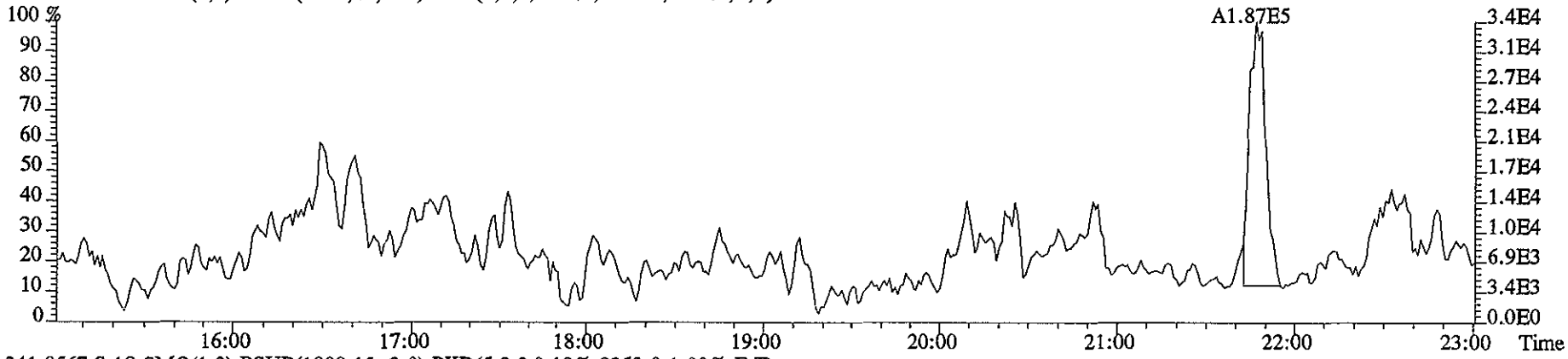
351.9000 S:19 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,26260.0,1.00%,F,T)



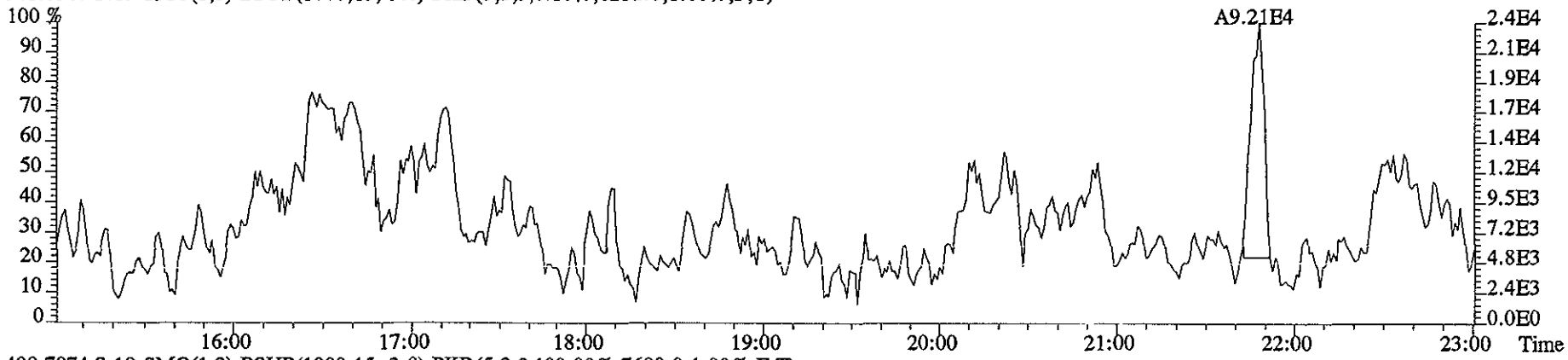
353.8970 S:19 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13872.0,1.00%,F,T)



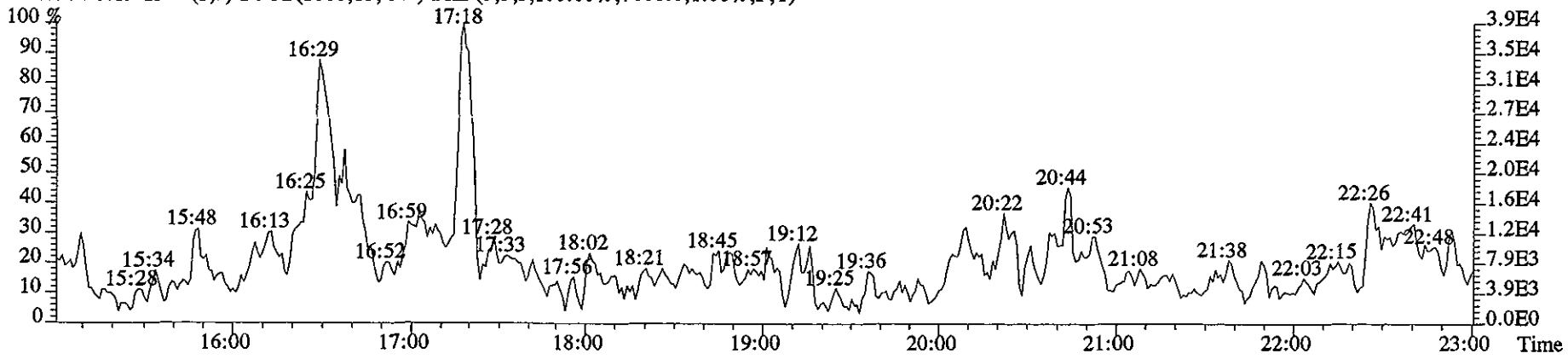
File:07DE104D5 #1-530 Acq: 8-DEC-2010 00:01:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#19 Text:MAQRD-1-AA :G0L020446-8 Exp:DIOXINRES
339.8597 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8756.0,1.00%,F,T)



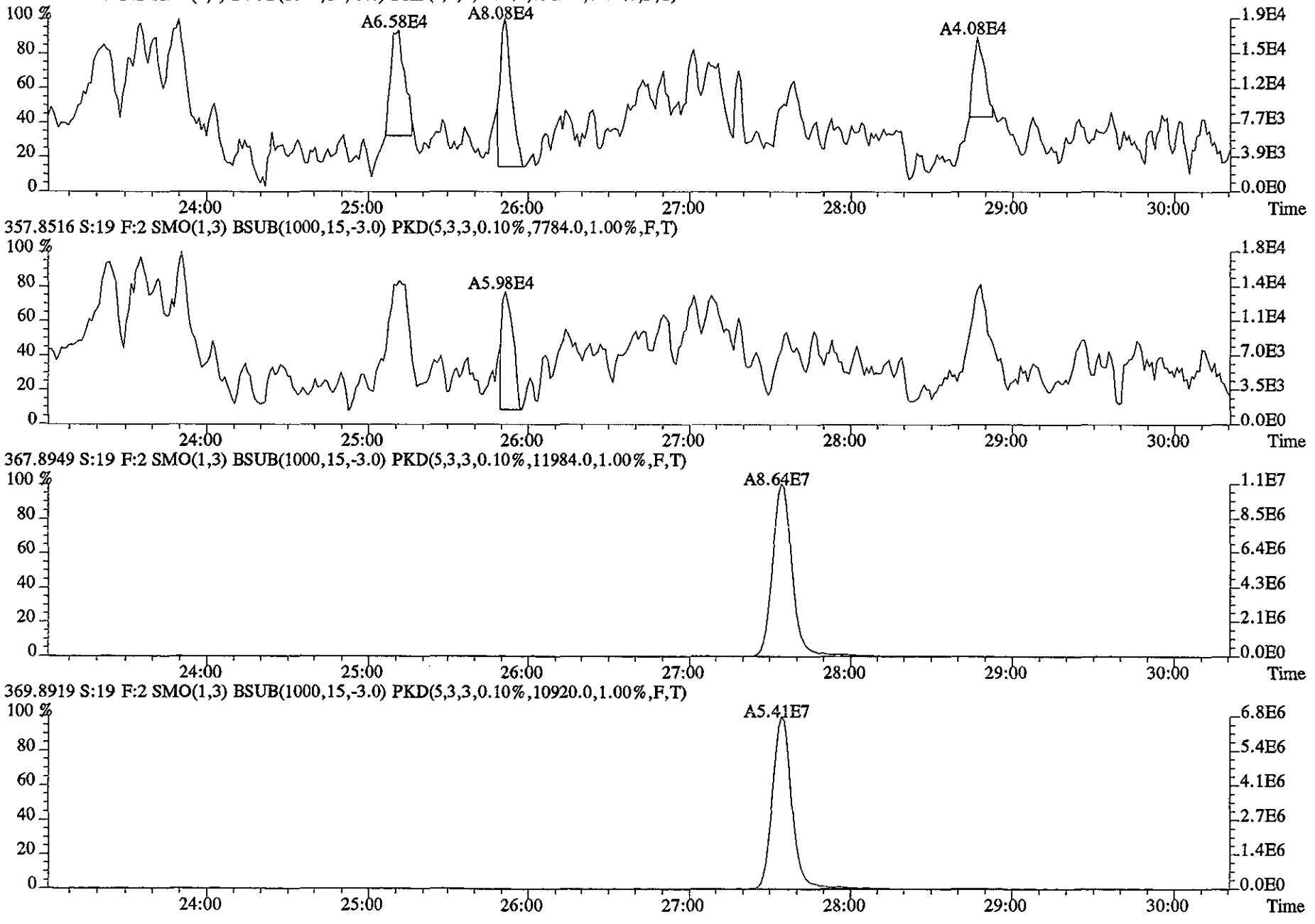
341.8567 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8252.0,1.00%,F,T)



409.7974 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,7688.0,1.00%,F,T)

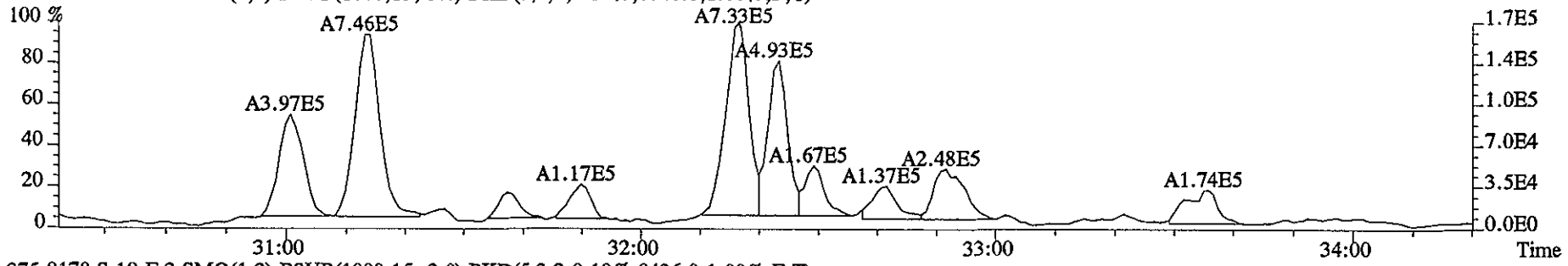


File:07DE104D5 #1-470 Acq: 8-DEC-2010 00:01:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#19 Text:MAQRD-1-AA :G0L020446-8 Exp:DIOXINRES

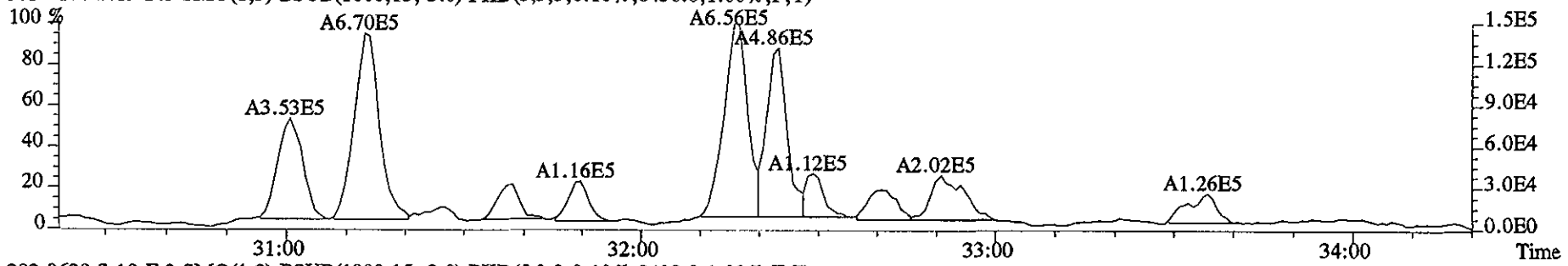


File:07DE104D5 #1-286 Acq: 8-DEC-2010 00:01:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#19 Text:MAQRD-1-AA :G0L020446-8 Exp:DIOXINRES

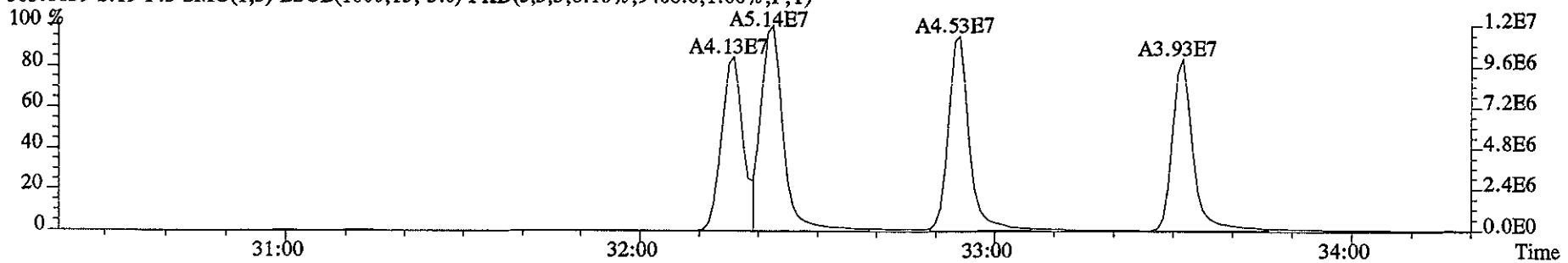
373.8208 S:19 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8748.0,1.00%,F,T)



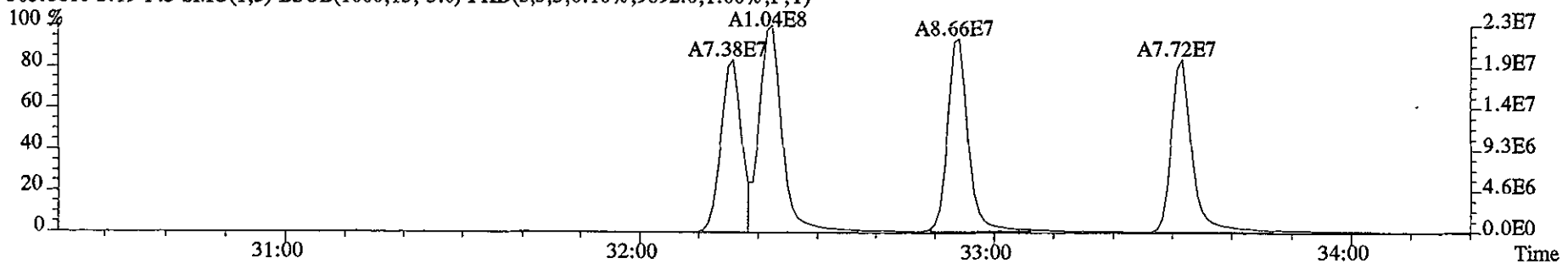
375.8178 S:19 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8436.0,1.00%,F,T)



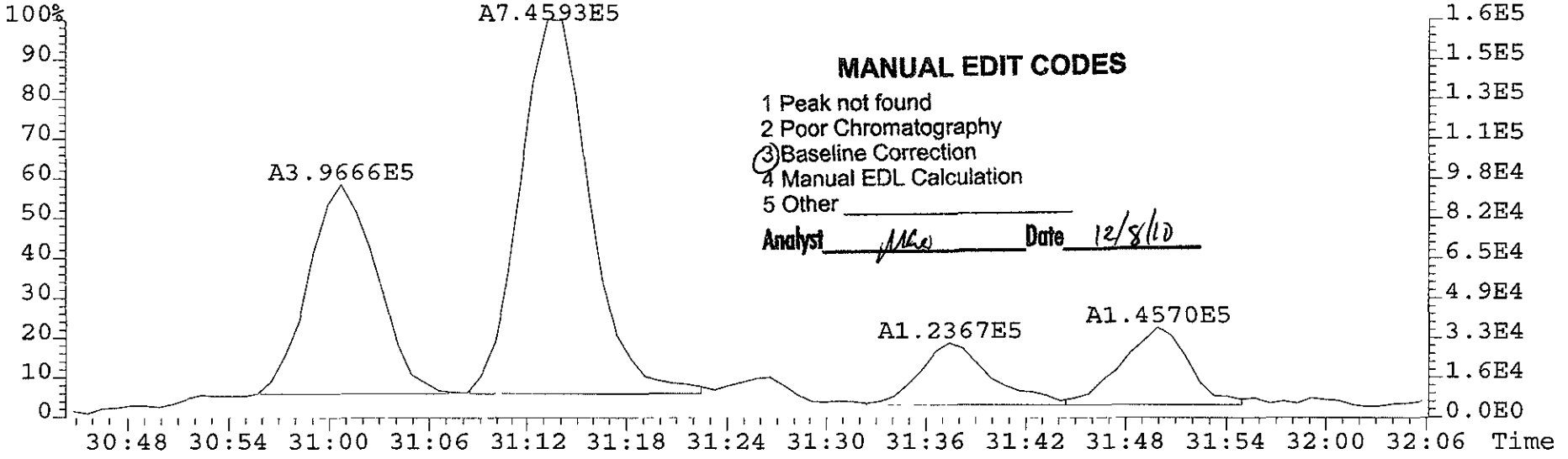
383.8639 S:19 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9408.0,1.00%,F,T)



385.8610 S:19 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9892.0,1.00%,F,T)



File:07DE104D5 #1-286 Acq: 8-DEC-2010 00:01:34 GC EI+ Voltage SIR Autospec-UltimaE
373.8208 S:19 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8748.0,1.00%,F,T) Exp:DIOXINRES >
Sample Text:MAQRD-1-AA :G0L020446-8

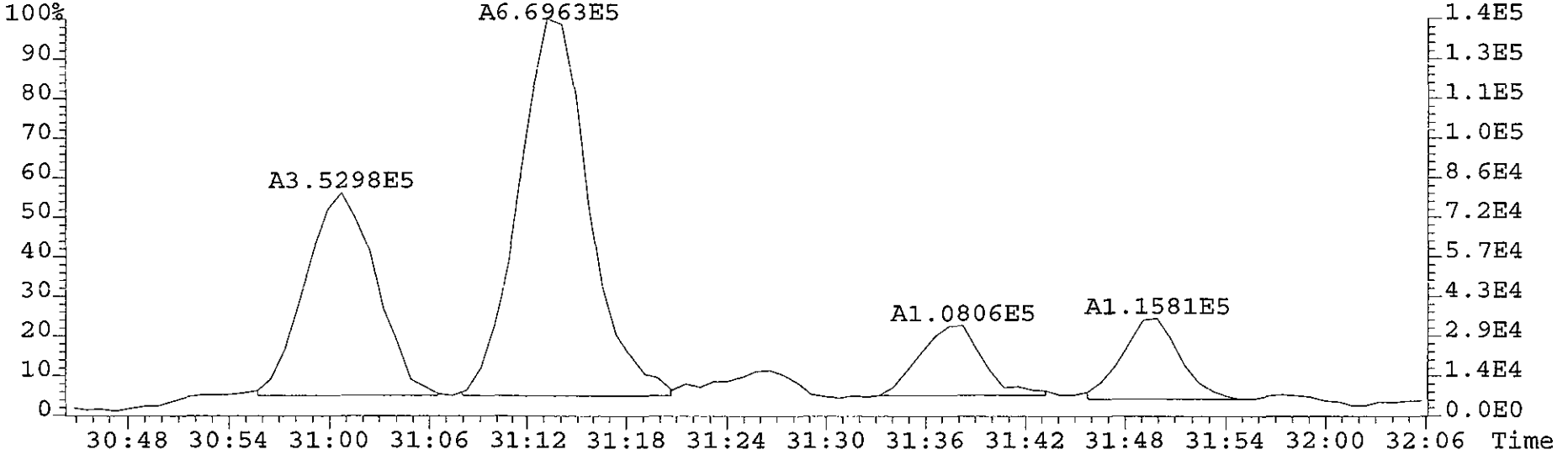


MANUAL EDIT CODES

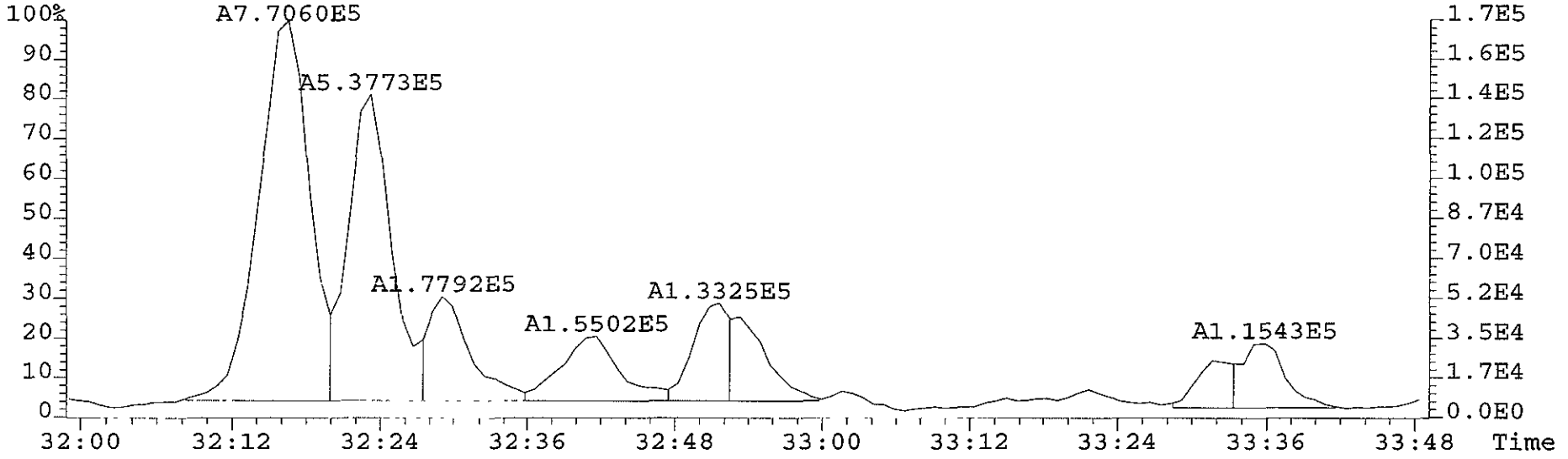
1 Peak not found
2 Poor Chromatography
(3) Baseline Correction
4 Manual EDL Calculation
5 Other _____

Analyst MC Date 12/8/10

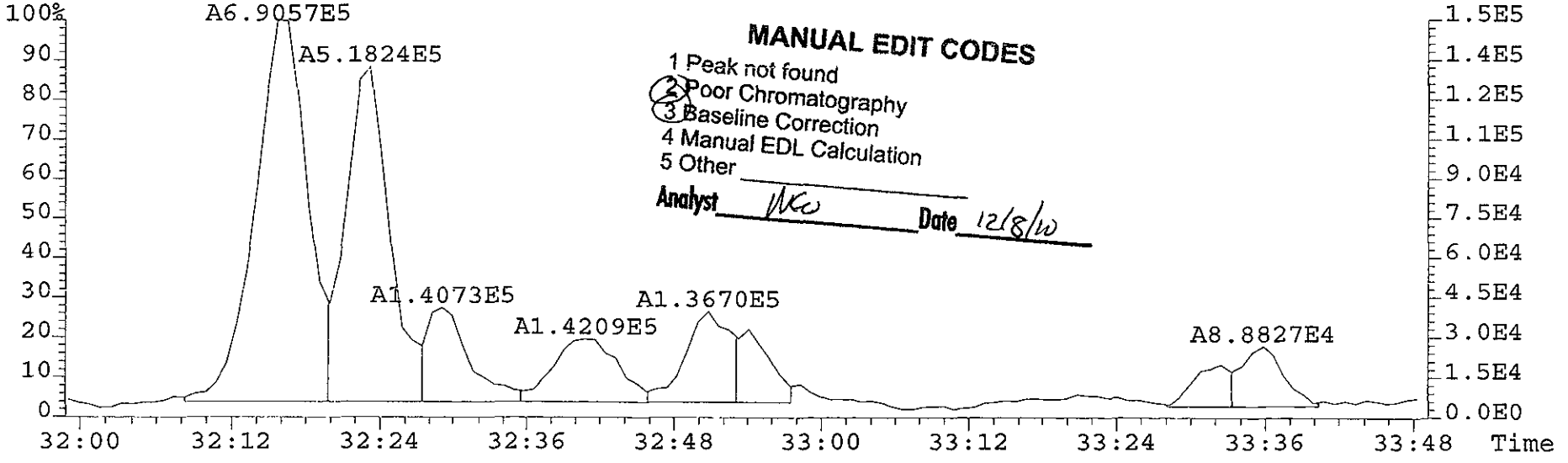
File:07DE104D5 #1-286 Acq: 8-DEC-2010 00:01:34 GC EI+ Voltage SIR Autospec-UltimaE
375.8178 S:19 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8436.0,1.00%,F,T) Exp:DIOXINRES >
Sample Text:MAQRD-1-AA :G0L020446-8



File:07DE104D5 #1-286 Acq: 8-DEC-2010 00:01:34 GC EI+ Voltage SIR Autospec-UltimaE
373.8208 S:19 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8748.0,1.00%,F,T) Exp:DIOXINRES >
Sample Text:MAQRD-1-AA :G0L020446-8



File:07DE104D5 #1-286 Acq: 8-DEC-2010 00:01:34 GC EI+ Voltage SIR Autospec-UltimaE
375.8178 S:19 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8436.0,1.00%,F,T) Exp:DIOXINRES >
Sample Text:MAQRD-1-AA :G0L020446-8

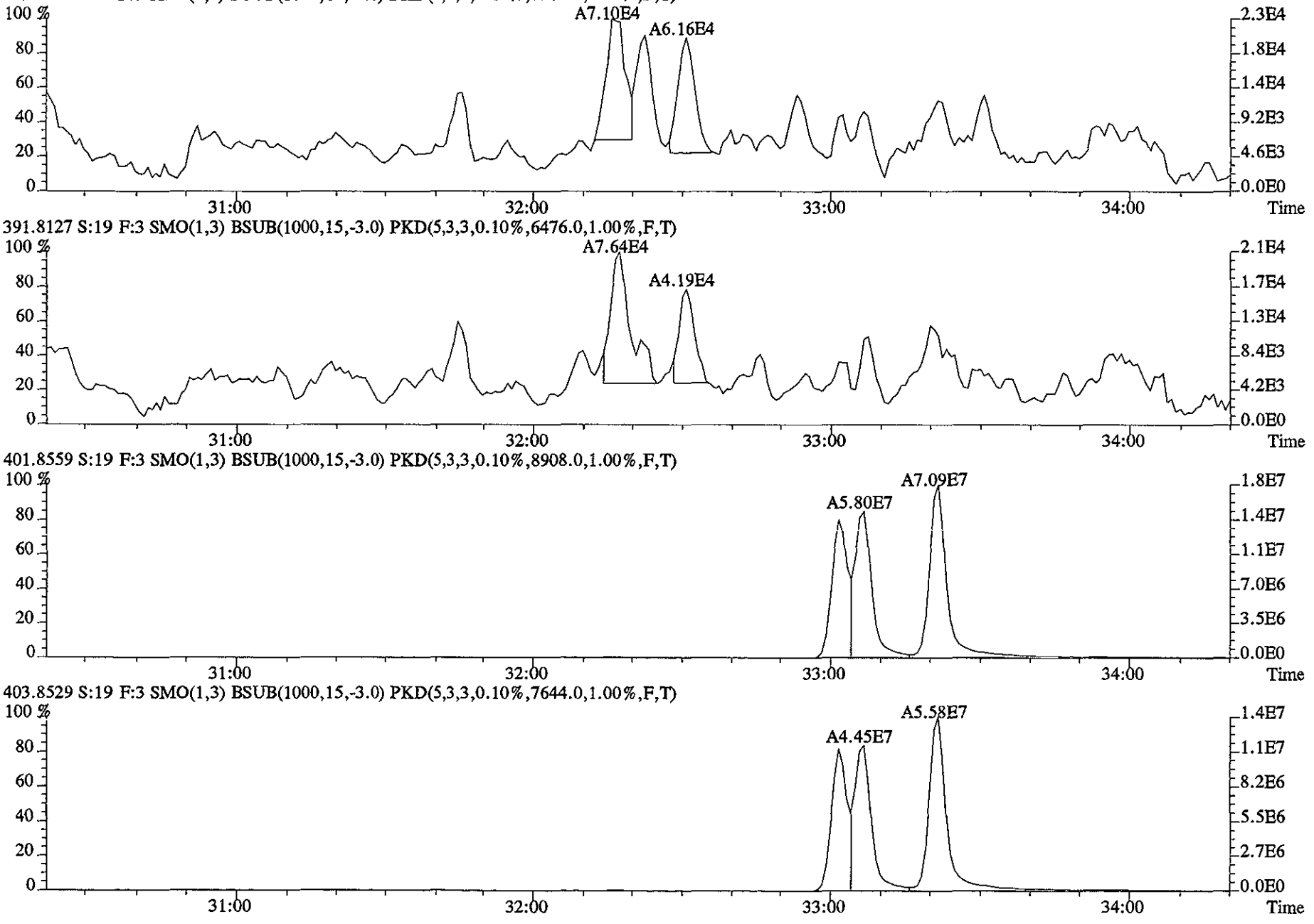


MANUAL EDIT CODES

1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
5 Other _____

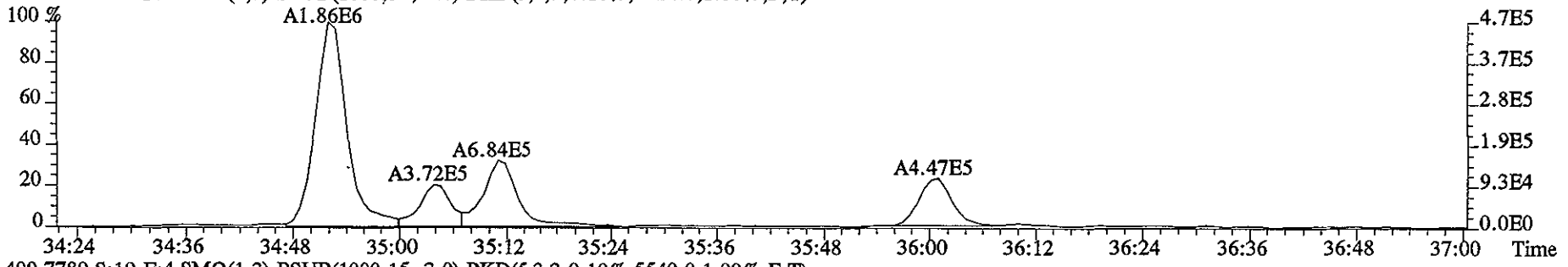
Analyst MKO Date 12/8/10

File:07DE104D5 #1-286 Acq: 8-DEC-2010 00:01:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#19 Text:MAQRD-1-AA :G0L020446-8 Exp:DIOXINRES

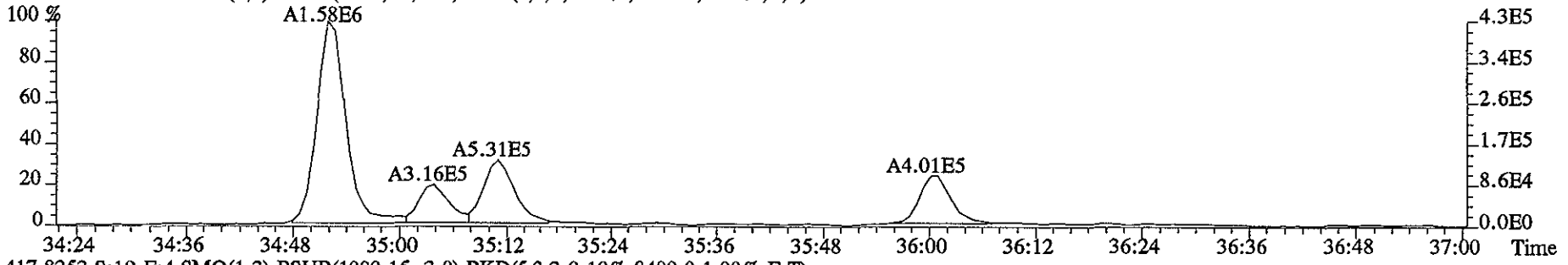


File:07DE104D5 #1-201 Acq: 8-DEC-2010 00:01:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#19 Text:MAQRD-1-AA :G0L020446-8 Exp:DIOXINRES

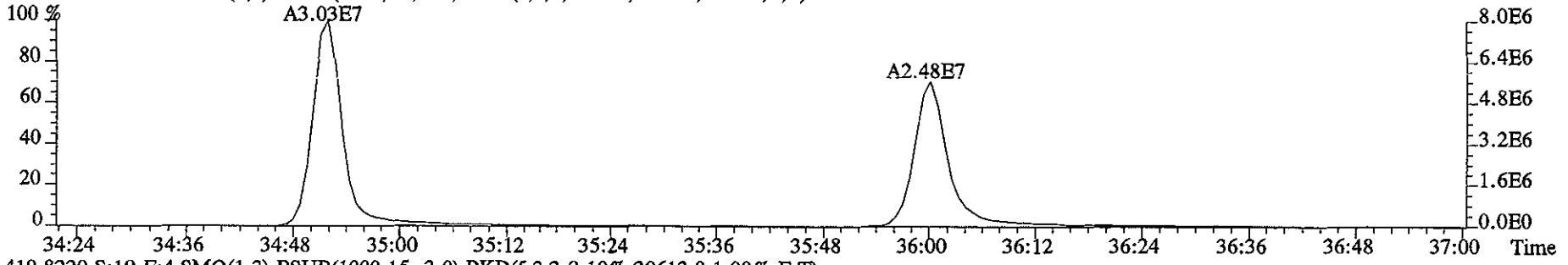
407.7818 S:19 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4624.0,1.00%,F,T)



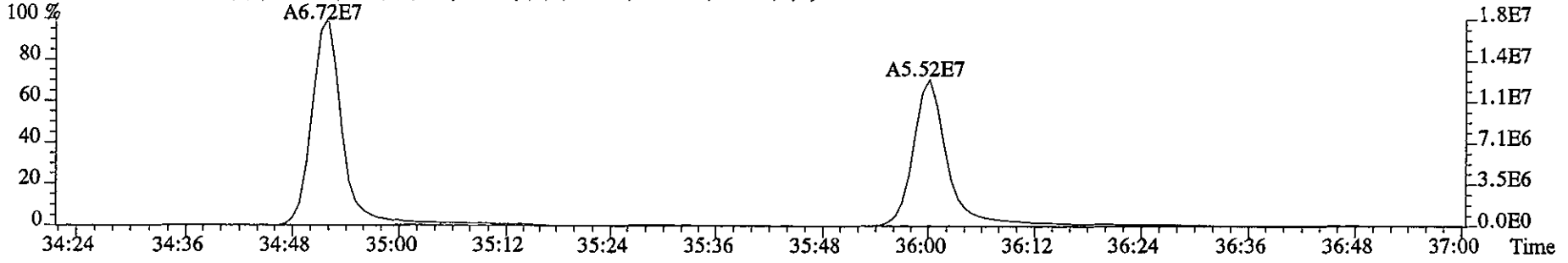
409.7789 S:19 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5540.0,1.00%,F,T)



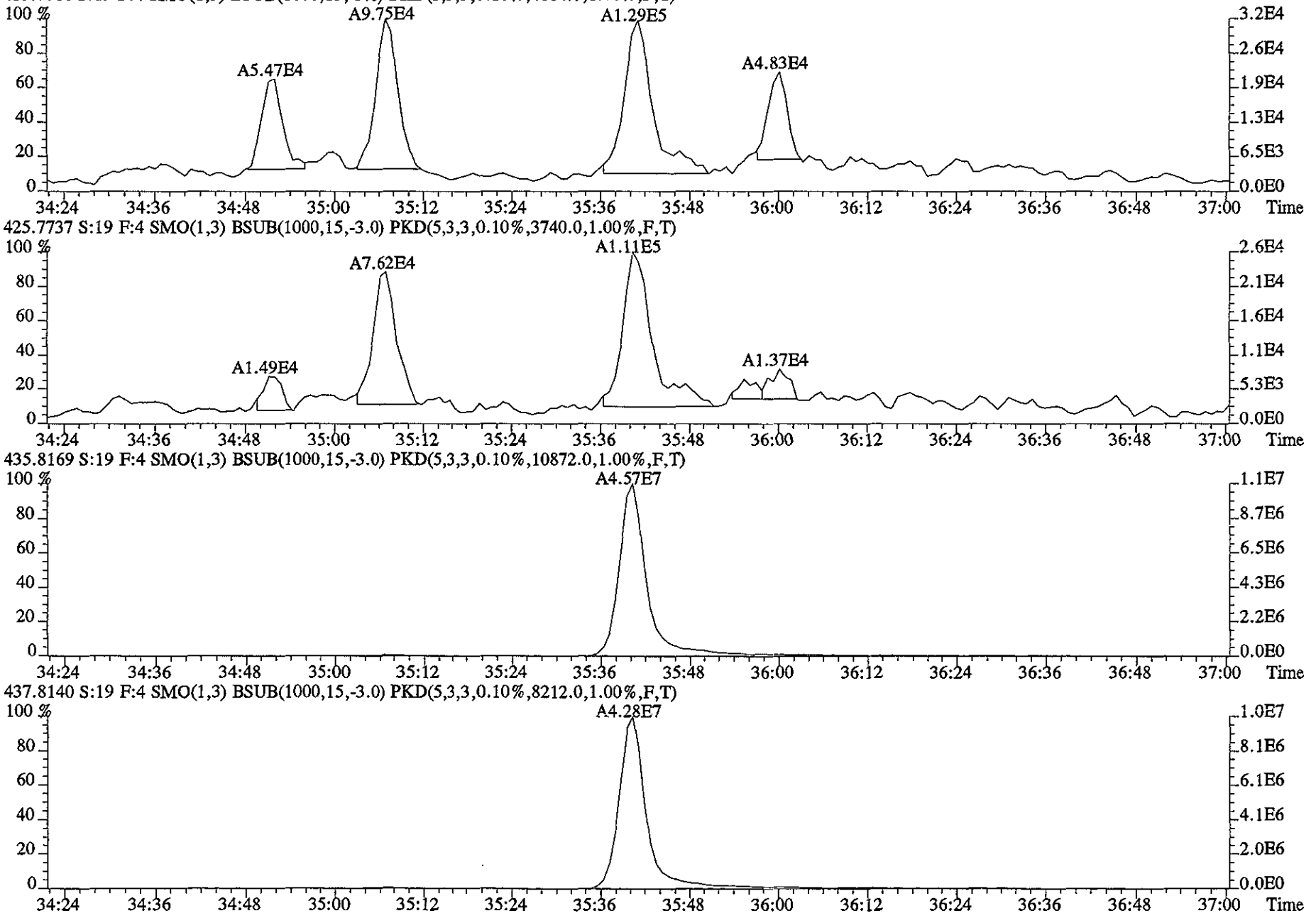
417.8253 S:19 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8400.0,1.00%,F,T)



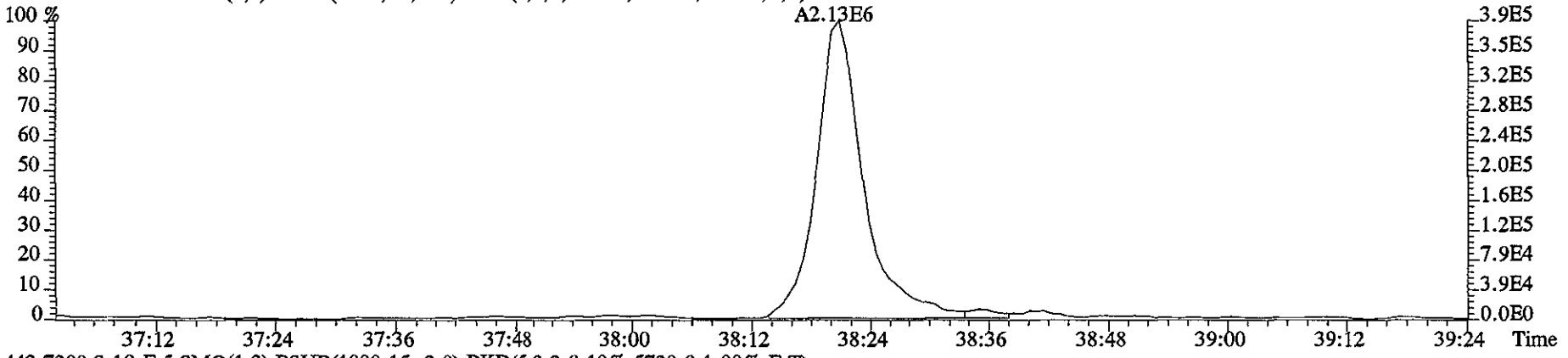
419.8220 S:19 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,29612.0,1.00%,F,T)



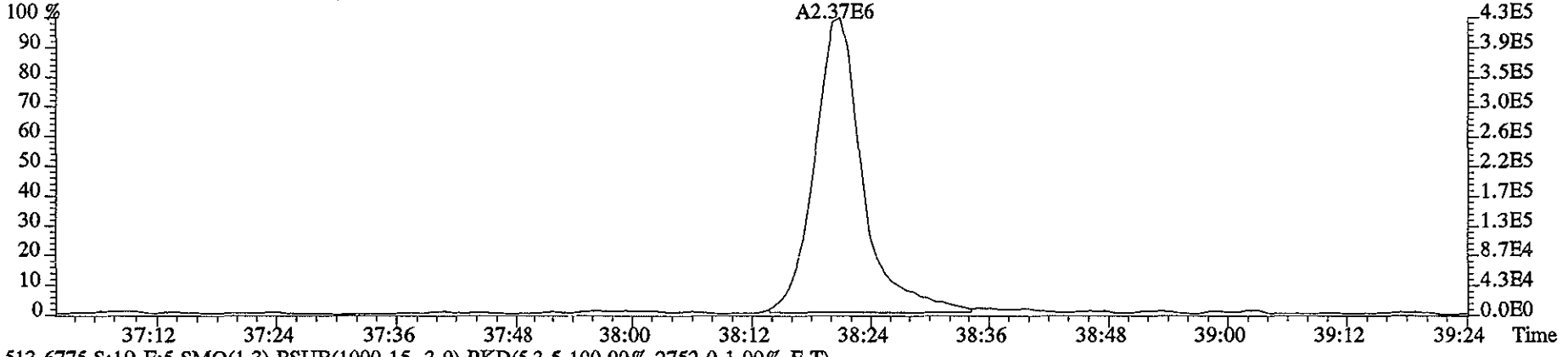
File:07DE104D5 #1-201 Acq: 8-DEC-2010 00:01:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#19 Text:MAQRD-1-AA :G0L020446-8 Exp:DIOXINRES



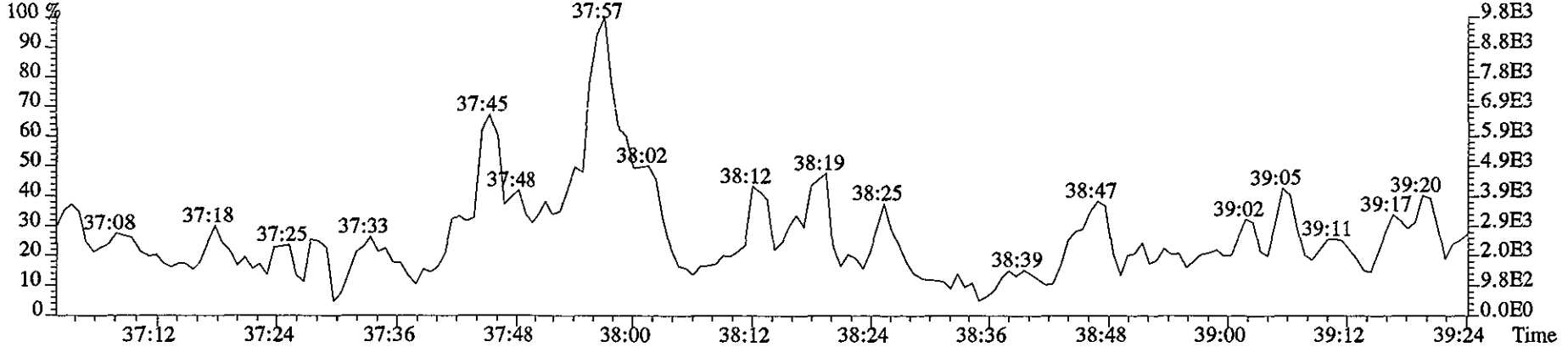
File:07DE104D5 #1-192 Acq: 8-DEC-2010 00:01:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#19 Text:MAQRD-1-AA :G0L020446-8 Exp:DIOXINRES
441.7428 S:19 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3572.0,1.00%,F,T)



443.7399 S:19 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5720.0,1.00%,F,T)

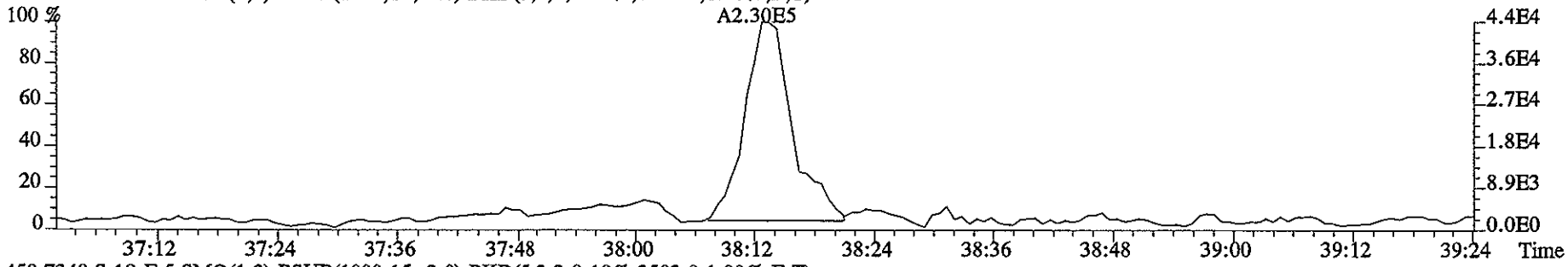


513.6775 S:19 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,2752.0,1.00%,F,T)

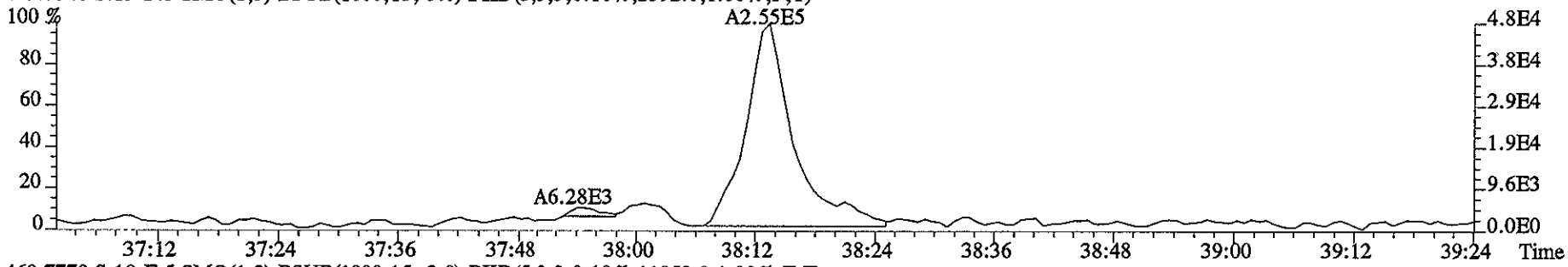


File:07DE104D5 #1-192 Acq: 8-DEC-2010 00:01:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#19 Text:MAQRD-1-AA :G0L020446-8 Exp:DIOXINRES

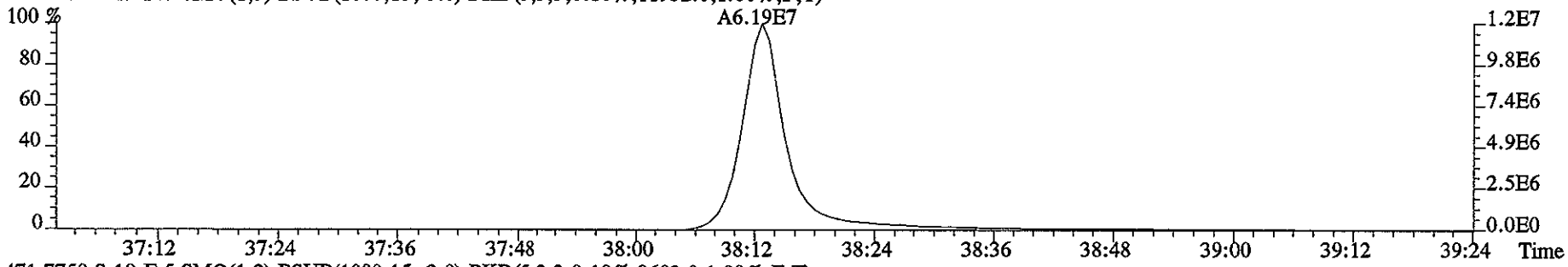
457.7377 S:19 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2788.0,1.00%,F,T)



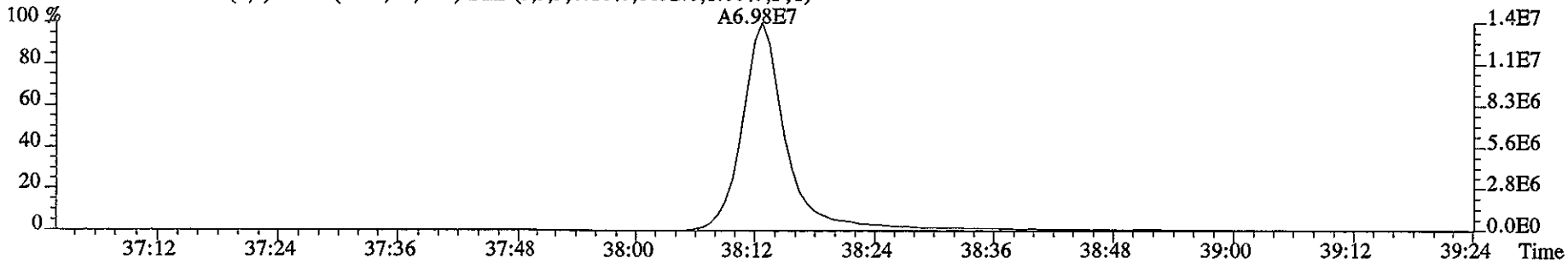
459.7348 S:19 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2592.0,1.00%,F,T)



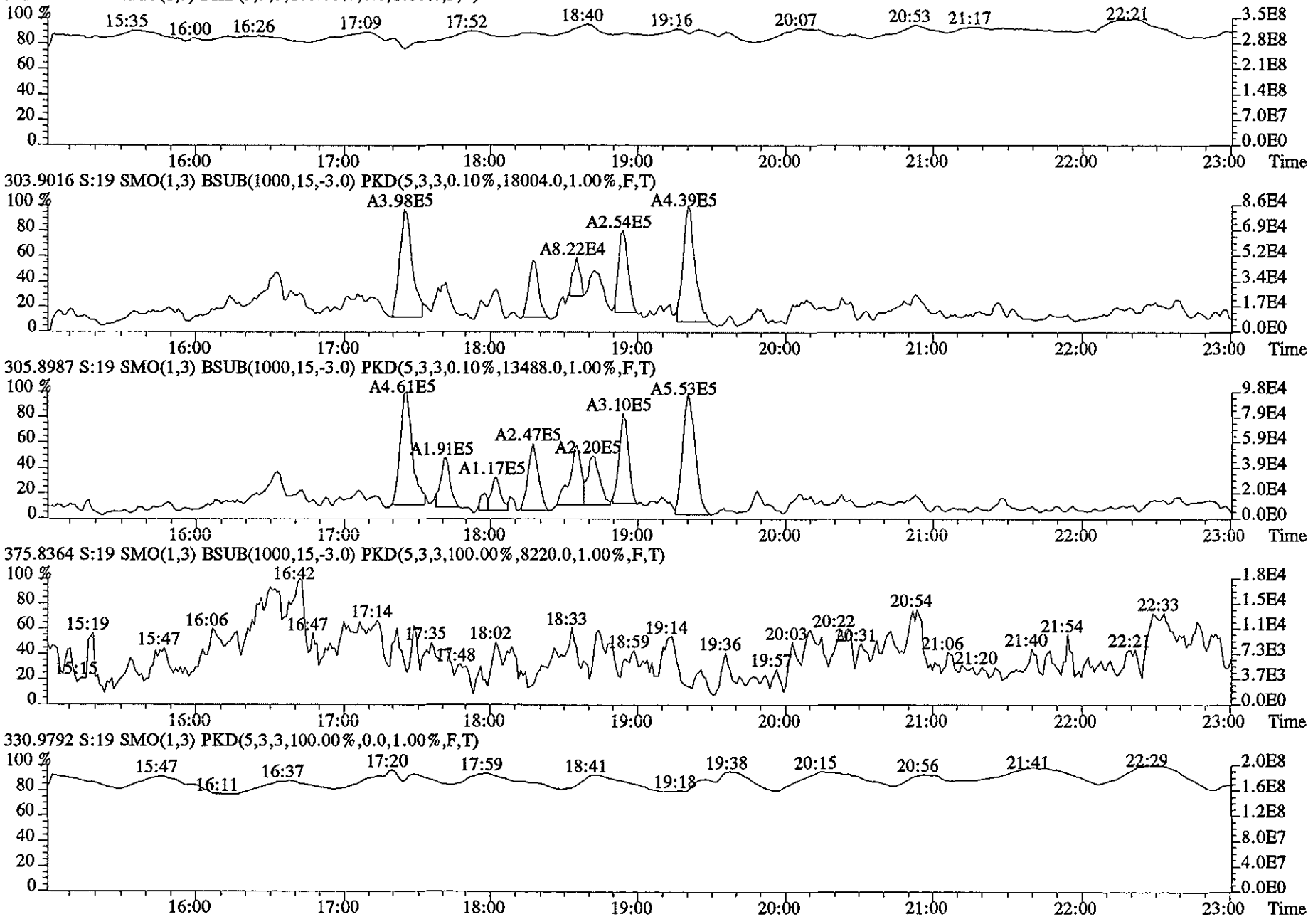
469.7779 S:19 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11952.0,1.00%,F,T)



471.7750 S:19 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8692.0,1.00%,F,T)

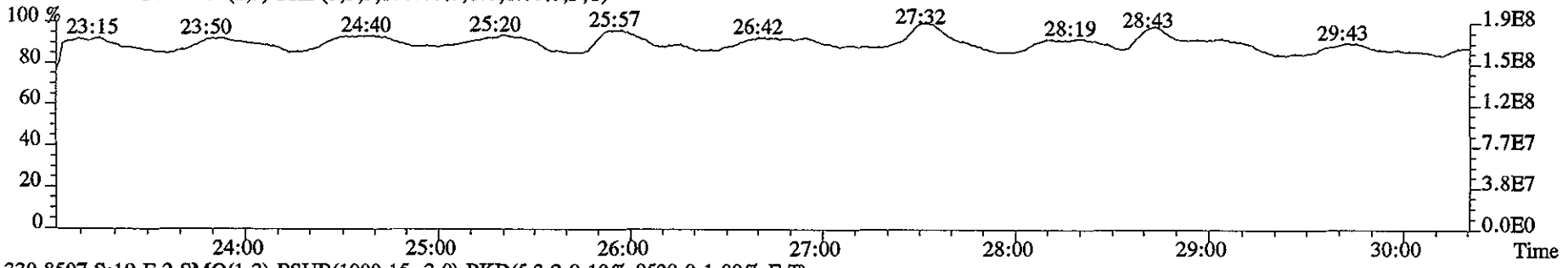


File:07DE104D5 #1-530 Acq: 8-DEC-2010 00:01:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#19 Text:MAQRD-1-AA :G0L020446-8 Exp:DIOXINRES

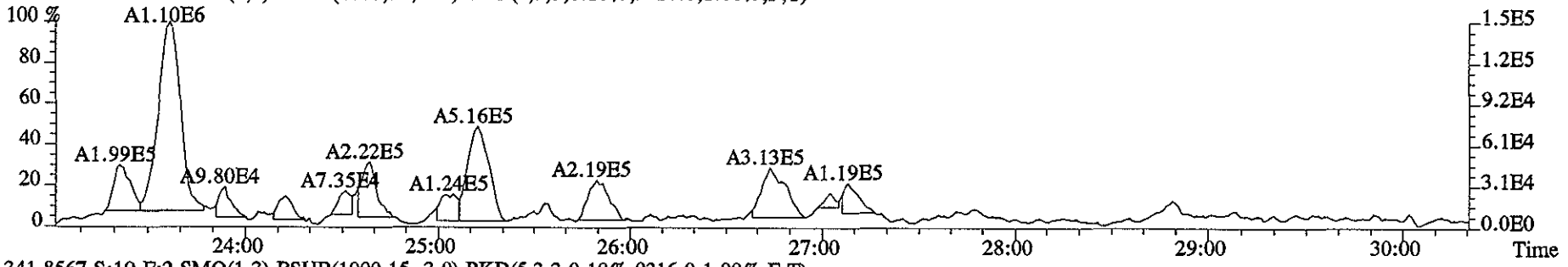


File:07DE104D5 #1-470 Acq: 8-DEC-2010 00:01:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#19 Text:MAQRD-1-AA :G0L020446-8 Exp:DIOXINRES

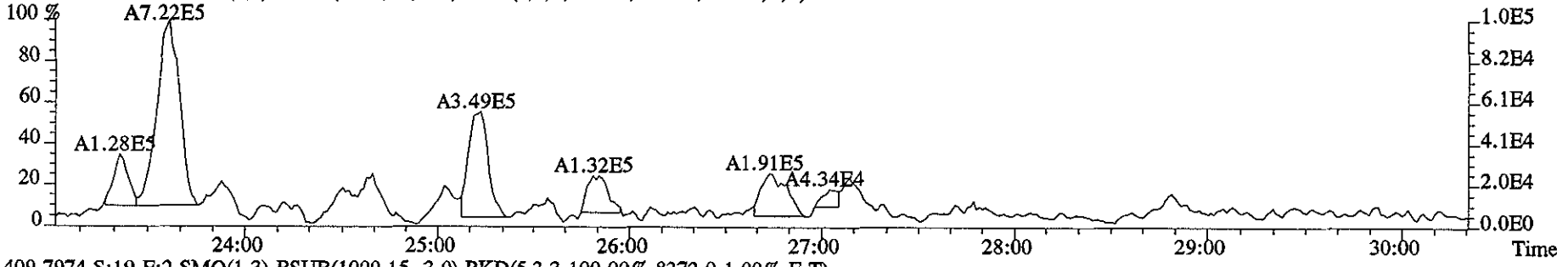
342.9792 S:19 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



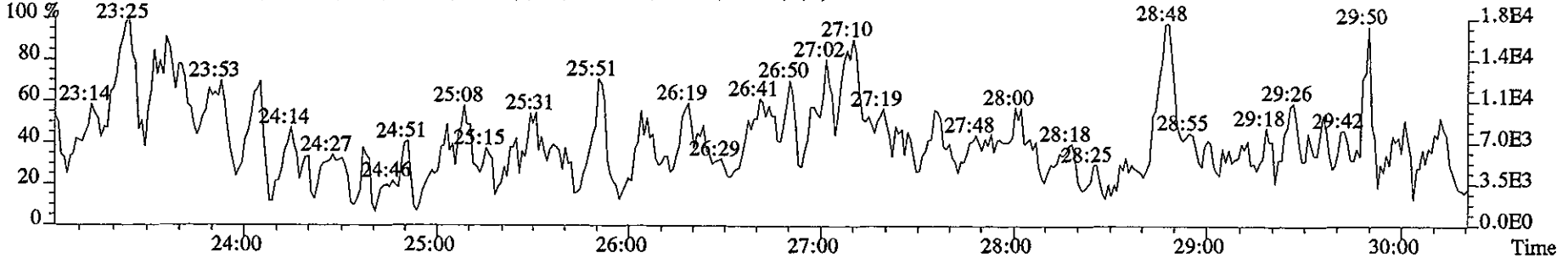
339.8597 S:19 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9520.0,1.00%,F,T)



341.8567 S:19 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9216.0,1.00%,F,T)

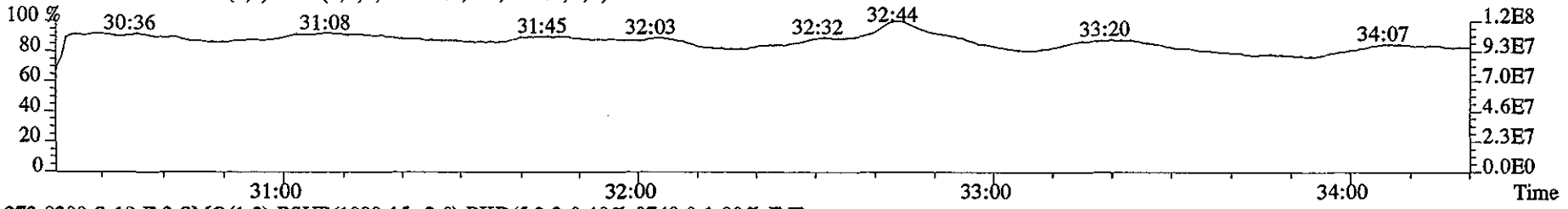


409.7974 S:19 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,8372.0,1.00%,F,T)

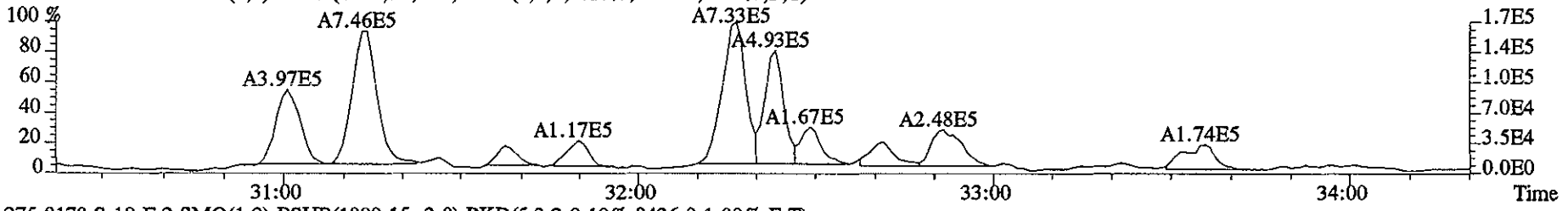


File:07DE104D5 #1-286 Acq: 8-DEC-2010 00:01:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#19 Text:MAQRD-1-AA :G0L020446-8 Exp:DIOXINRES

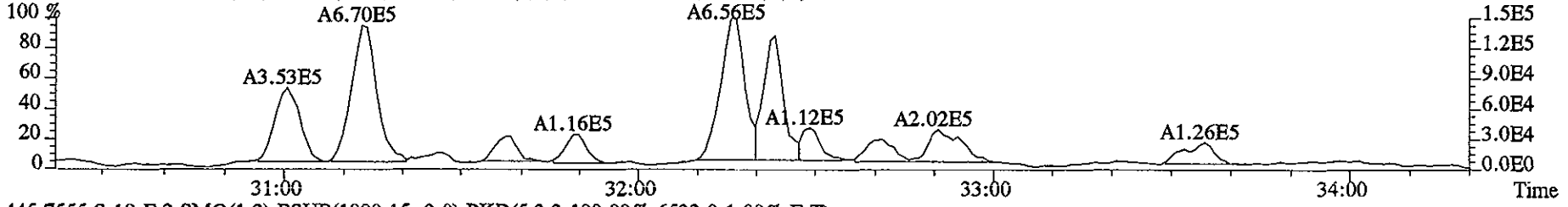
392.9760 S:19 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



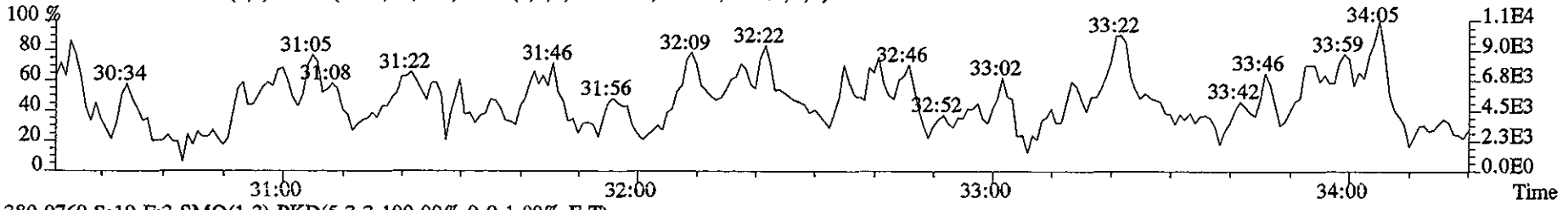
373.8208 S:19 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8748.0,1.00%,F,T)



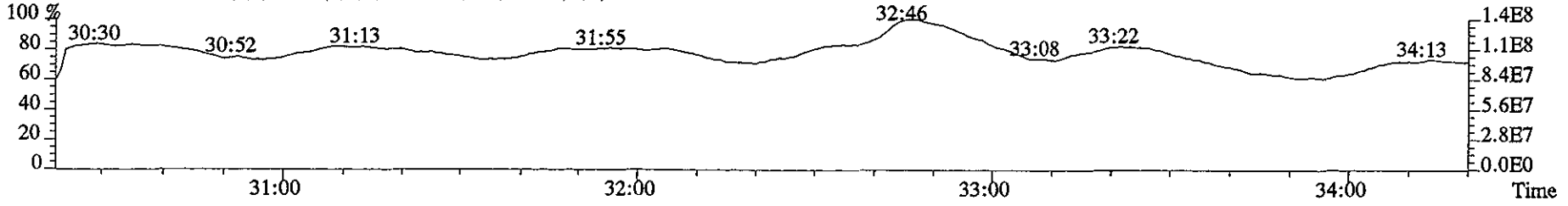
375.8178 S:19 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8436.0,1.00%,F,T)



445.7555 S:19 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,6532.0,1.00%,F,T)

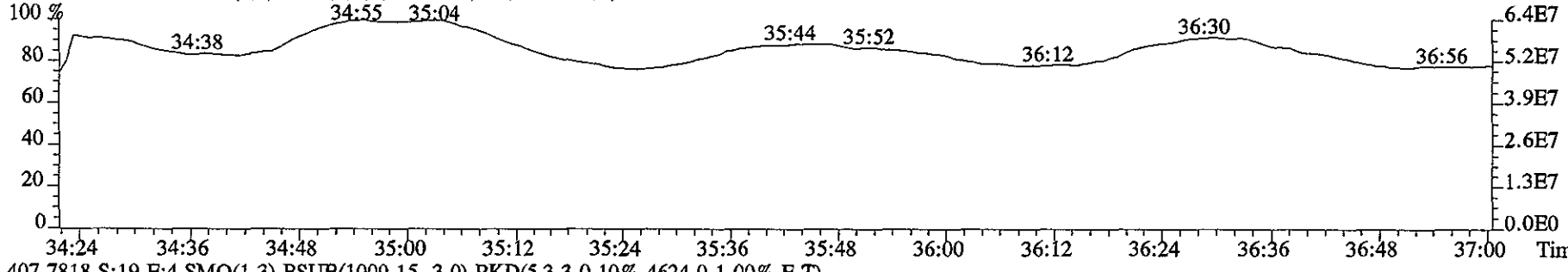


380.9760 S:19 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

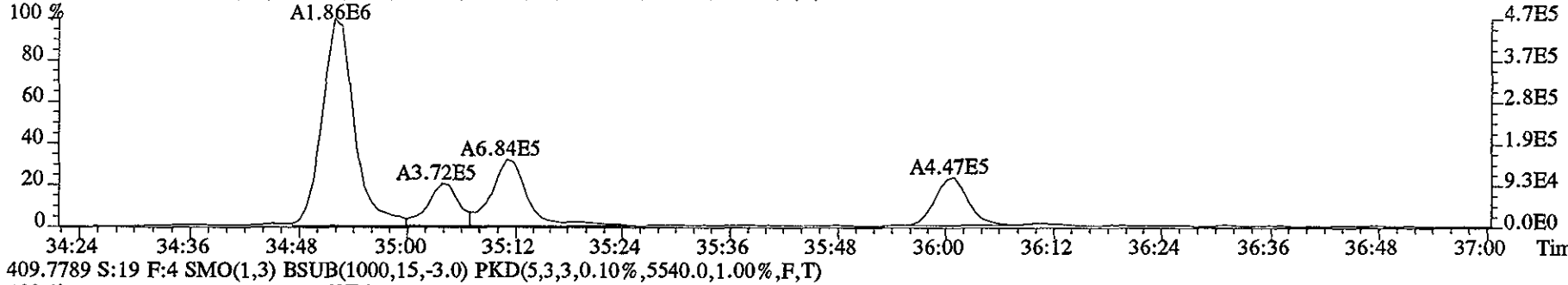


File:07DE104D5 #1-201 Acq: 8-DEC-2010 00:01:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#19 Text:MAQRD-1-AA :G0L020446-8 Exp:DIOXINRES

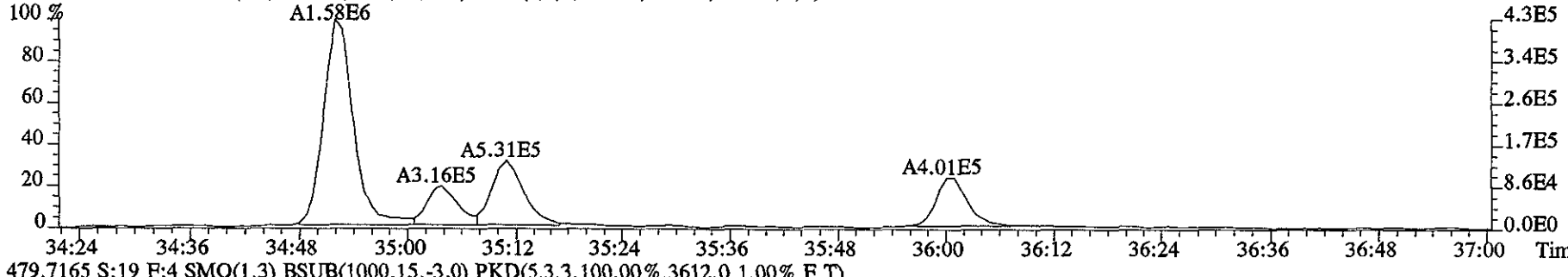
430.9728 S:19 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



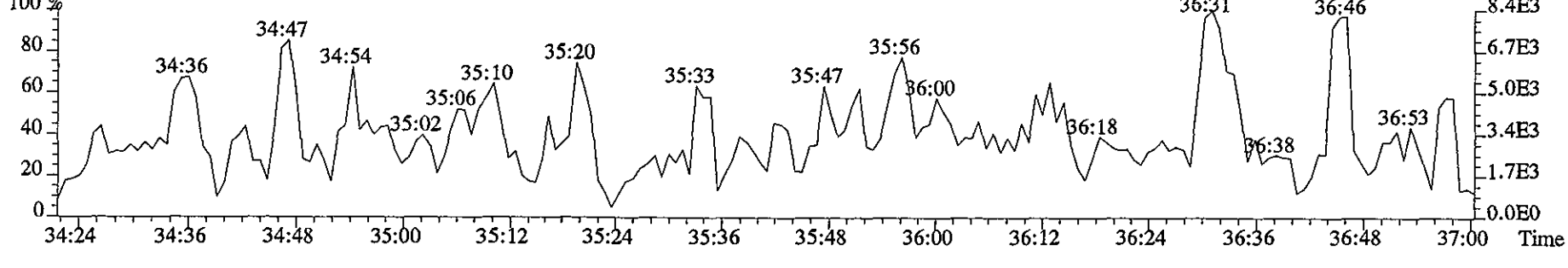
407.7818 S:19 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4624.0,1.00%,F,T)



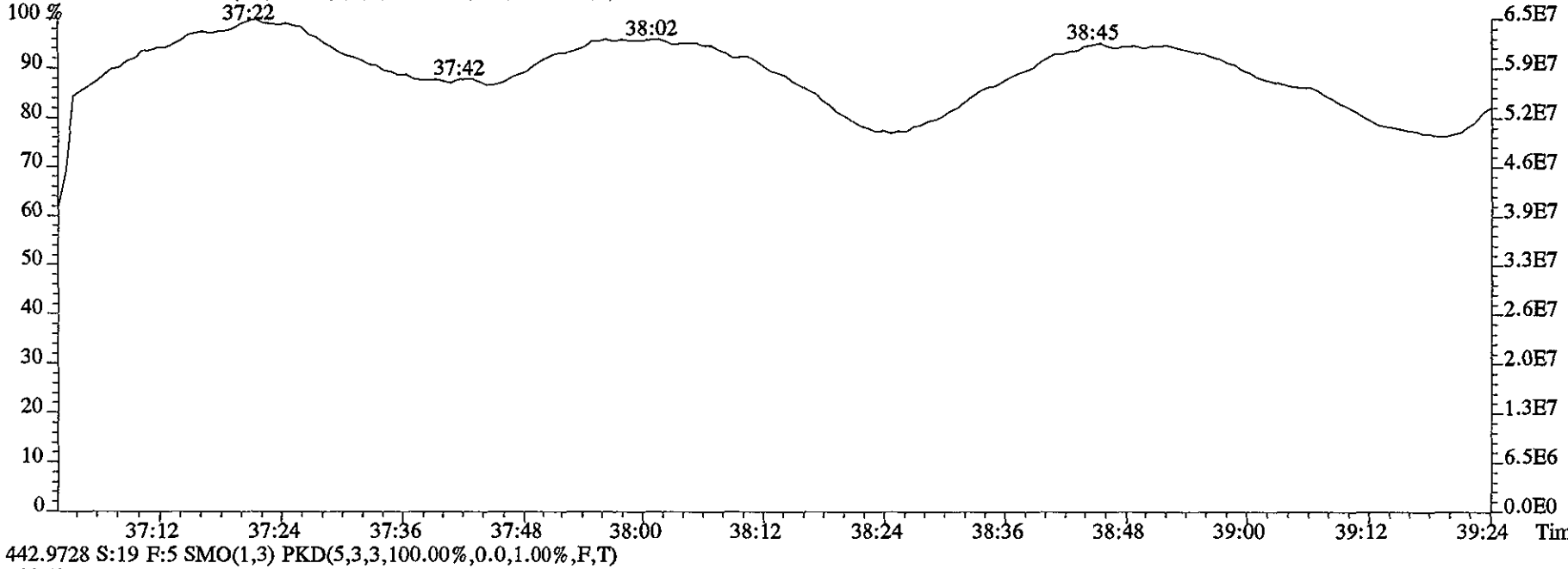
409.7789 S:19 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5540.0,1.00%,F,T)



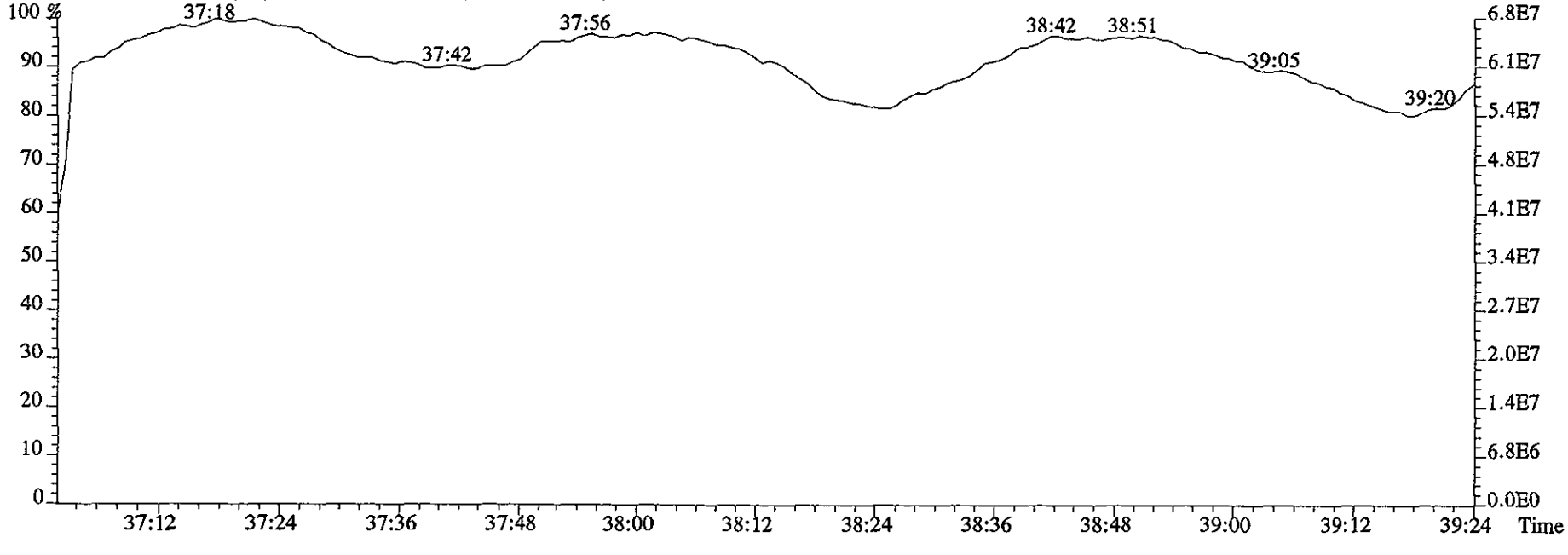
479.7165 S:19 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,3612.0,1.00%,F,T)



File:07DE104D5 #1-192 Acq: 8-DEC-2010 00:01:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#19 Text:MAQRD-1-AA :G0L020446-8 Exp:DIOXINRES
454.9728 S:19 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:19 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Test America – West Sacramento

Daily Calibration Checklist
Dioxin Methods

Method ID T09 **Associated ICAL** T09 072104D5

Column ID DB5 **Instrument ID** 4D5

STD ID ST1207, ST1207A **STD Solution** 10DXN461

Analyzed by AS **Date Analyzed** 12-07-10

Std. Pkg. By AS **Date Std. Pkg. Assembled** 12-08-10

Std. Pkg. Reviewed By NK **Date Std. Pkg. Reviewed** 12-08-10

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 std > 20% D for 1,2,3,6,7,8-HxCDF ≤ 25% D
use Avg. RRF = 1.55 see NCM # 07-0117736

* **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: ST1207 File text: ST1207 :CS3 10DXN461
Run #6 Filename 07DE104D5 S: 2 I: 1
Acquired: 7-DEC-10 11:24:44 Processed: 7-DEC-10 14:06:03
Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D58290

Name	Resp	RA		RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	123978300	0.80	y	19:55	-	100.00	-	n
13C-2,3,7,8-TCDF	176013000	0.81	y	19:19	1.42	100.00	15.5	n
2,3,7,8-TCDF	17940790	0.79	y	19:21	1.02	10.00	2.5	n
Total TCDF	18088949	0.99	n	18:18	1.02	10.00	2.5	n
13C-2,3,7,8-TCDD	121635500	0.81	y	20:08	0.98	100.00	8.4	n
2,3,7,8-TCDD	12608320	0.77	y	20:09	1.04	10.00	5.4	n
Total TCDD	12744050	2.73	n	16:57	1.04	10.00	5.4	n
37Cl-2,3,7,8-TCDD	15712060	1.00	y	20:09	1.29	10.00	-2.6	n
13C-1,2,3,7,8-PeCDF	133059600	1.60	y	25:11	1.07	100.00	22.5	n
1,2,3,7,8-PeCDF	74513300	1.60	y	25:13	1.12	50.00	4.0	n
2,3,4,7,8-PeCDF	68756500	1.60	y	26:46	1.03	50.00	-1.2	n
Total F2 PeCDF	144330112	0.82	n	23:37	1.08	100.00	1.5	n
Total F1 PeCDF	*	*	n	NotFnd	1.08	100.00	1.5	n
13C-1,2,3,7,8-PeCDD	92480800	1.59	y	27:35	0.75	100.00	12.9	n
1,2,3,7,8-PeCDD	48245400	1.59	y	27:37	1.04	50.00	12.7	n
Total PeCDD	48420345	1.59	y	27:37	1.04	50.00	12.7	n
13C-1,2,3,7,8,9-HxCDD	78038800	1.27	y	33:22	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	83357100	0.50	y	32:15	1.07	100.00	2.2	n
1,2,3,4,7,8-HxCDF	52834700	1.14	y	32:16	1.27	50.00	4.1	n
1,2,3,6,7,8-HxCDF	64329600	1.15	y	32:23	1.54	50.00	20.4	n
2,3,4,6,7,8-HxCDF	54027100	1.14	y	32:54	1.30	50.00	5.1	n
1,2,3,7,8,9-HxCDF	46506000	1.16	y	33:33	1.12	50.00	1.6	n
Total HxCDF	217800052	1.15	y	31:15	1.31	200.00	8.1	n
13C-1,2,3,6,7,8-HxCDD	75602700	1.29	y	33:06	0.97	100.00	16.6	n
1,2,3,4,7,8-HxCDD	32693000	1.18	y	33:03	0.86	50.00	-16.6	n
1,2,3,6,7,8-HxCDD	43259700	1.23	y	33:07	1.14	50.00	-1.6	n
1,2,3,7,8,9-HxCDD	40812100	1.23	y	33:23	1.08	50.00	-8.6	n
Total HxCDD	116764800	1.18	y	33:03	1.03	150.00	-8.7	n
13C-1,2,3,4,6,7,8-HpCDF	62057700	0.43	y	34:52	0.80	100.00	-12.6	n
1,2,3,4,6,7,8-HpCDF	46538000	1.07	y	34:53	1.50	50.00	11.4	n
1,2,3,4,7,8,9-HpCDF	39187800	1.07	y	36:00	1.26	50.00	15.5	n
Total HpCDF	86167690	1.07	y	34:53	1.38	100.00	13.3	n
13C-1,2,3,4,6,7,8-HpCDD	57827100	1.07	y	35:41	0.74	100.00	-10.4	n
1,2,3,4,6,7,8-HpCDD	32078900	1.04	y	35:41	1.11	50.00	3.5	n
Total HpCDD	32264754	1.00	y	35:06	1.11	50.00	3.5	n
13C-OCDD	79772600	0.89	y	38:13	0.51	200.00	-17.5	n
OCDF	58710400	0.94	y	38:20	1.47	100.00	7.4	n
OCDD	48140100	0.91	y	38:13	1.21	100.00	0.6	n

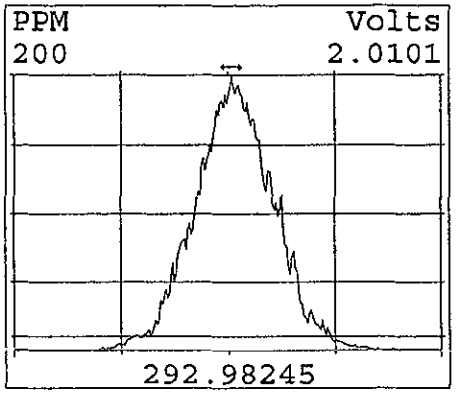
Run text: ST1207A File text: ST1207A :CS3 10DXN461
Run #11 Filename 07DE104D5 S: 13 I: 1
Acquired: 7-DEC-10 19:34:22 Processed: 8-DEC-10 07:53:20
Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D5TO9

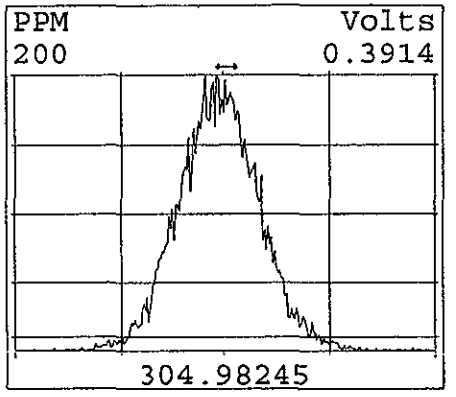
Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	249289184	0.80 y	19:55	-	100.00	-	n
13C-2,3,7,8-TCDF	321371584	0.80 y	19:19	1.29	100.00	4.9	n
2,3,7,8-TCDF	33798574	0.76 y	19:19	1.05	10.00	5.8	n
Total TCDF	34245287	0.64 n	18:17	1.05	10.00	5.8	n
13C-2,3,7,8-TCDD	230944520	0.80 y	20:07	0.93	100.00	2.4	n
2,3,7,8-TCDD	24056850	0.78 y	20:09	1.04	10.00	5.9	n
Total TCDD	24218671	1.57 n	16:56	1.04	10.00	5.9	n
37Cl-2,3,7,8-TCDD	28904410	1.00 y	20:09	1.25	10.00	-5.6	n
13C-1,2,3,7,8-PeCDF	237248744	1.57 y	25:11	0.95	100.00	8.6	n
1,2,3,7,8-PeCDF	133809932	1.59 y	25:13	1.13	50.00	4.8	n
2,3,4,7,8-PeCDF	123414344	1.56 y	26:46	1.04	50.00	-0.5	n
Total F2 PeCDF	259552935	1.10 n	23:37	1.08	100.00	2.2	n
Total F1 PeCDF	*	* n	NotFnd	1.08	100.00	2.2	n
13C-1,2,3,7,8-PeCDD	162820396	1.60 y	27:35	0.65	100.00	-1.2	n
1,2,3,7,8-PeCDD	85649256	1.54 y	27:37	1.05	50.00	13.7	n
Total PeCDD	85649256	1.54 y	27:37	1.05	50.00	13.7	n
13C-1,2,3,7,8,9-HxCDD	138467840	1.29 y	33:22	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	145460228	0.51 y	32:16	1.05	100.00	0.5	n
1,2,3,4,7,8-HxCDF	97072752	1.22 y	32:17	1.33	50.00	9.6	n
1,2,3,6,7,8-HxCDF	113191368	1.09 y	32:22	1.56	50.00	21.4	n ↑
2,3,4,6,7,8-HxCDF	92166940	1.18 y	32:55	1.27	50.00	2.7	n
1,2,3,7,8,9-HxCDF	81483412	1.16 y	33:33	1.12	50.00	2.0	n
Total HxCDF	384092320	1.48 n	31:13	1.32	200.00	9.3	n
13C-1,2,3,6,7,8-HxCDD	119134728	1.28 y	33:06	0.86	100.00	3.6	n
1,2,3,4,7,8-HxCDD	59134082	1.41 y	33:03	0.99	50.00	-4.3	n
1,2,3,6,7,8-HxCDD	72612384	1.12 y	33:07	1.22	50.00	4.8	n
1,2,3,7,8,9-HxCDD	74198934	1.26 y	33:23	1.25	50.00	5.4	n
Total HxCDD	205945400	1.41 y	33:03	1.15	150.00	2.2	n
13C-1,2,3,4,6,7,8-HpCDF	114558776	0.44 y	34:52	0.83	100.00	-9.1	n
1,2,3,4,6,7,8-HpCDF	86160904	1.06 y	34:52	1.50	50.00	11.8	n
1,2,3,4,7,8,9-HpCDF	70581288	1.07 y	36:01	1.23	50.00	12.7	n
Total HpCDF	157688853	1.06 y	34:52	1.37	100.00	12.2	n
13C-1,2,3,4,6,7,8-HpCDD	104599816	1.05 y	35:40	0.76	100.00	-8.6	n
1,2,3,4,6,7,8-HpCDD	58171288	1.03 y	35:41	1.11	50.00	3.8	n
Total HpCDD	58502073	0.90 y	35:08	1.11	50.00	3.8	n
13C-OCDD	151995728	0.90 y	38:14	0.55	200.00	-11.5	n
OCDF	111081248	0.92 y	38:22	1.46	100.00	6.7	n
OCDD	91575692	0.91 y	38:14	1.20	100.00	0.5	n

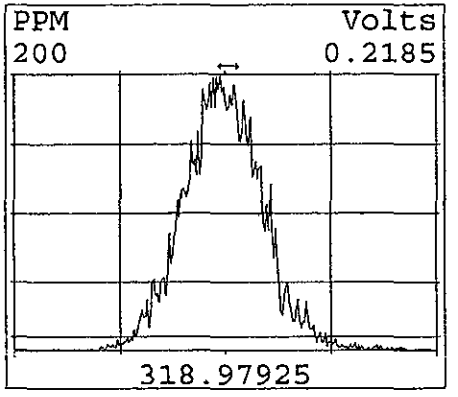
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
07DE104D5	1	CP1207	DB-5 CPSM 10LRES076				1.00000	
07DE104D5	2	ST1207	CS3 10DXN461				1.00000	
07DE104D5	3	MAVWM-1-AA	G0L020446-1MB	20	TO9/AIR	30	0.50000	SAM
07DE104D5	4	MAV34-1-AA	G0L040422-2	20	8290/SOLID		15.04000	g
07DE104D5	5	MAV35-1-AA	G0L040422-3	20	8290/SOLID		15.06000	g
07DE104D5	6	MAV36-1-AA	G0L040422-4	20	8290/SOLID		15.05000	g
07DE104D5	7	MAV37-1-AA	G0L040422-5	20	8290/SOLID		15.03000	g
07DE104D5	8	MATLN-1-AA	G0L030456-1	20	8290/SOLID		15.08000	g
07DE104D5	9	MATLN-1-AD	G0L030456-1MS	20	8290/SOLID		15.01000	g
07DE104D5	10	MATLN-1-AE	G0L030456-1MSD	20	8290/SOLID		15.04000	g
07DE104D5	11	MAVWM-1-AC	G0L020446-1LCS	20	TO9/AIR	30	0.50000	SAM
07DE104D5	12	MAVWM-1-AD	G0L020446-1DCS	20	TO9/AIR		0.50000	SAM
07DE104D5	13	ST1207A	CS3 10DXN461				1.00000	
07DE104D5	14	CP1207A	DB-5 CPSM 10LRES076				1.00000	
07DE104D5	15	ST1207B	CS3 10DXN461				1.00000	
07DE104D5	16	MAXGD-1-AA	G0L030524-1MB	20	8290/SOLID	31	10.00000	g
07DE104D5	17	MAQQV-1-AA	G0L020446-1	20	TO9/AIR	30	0.50000	SAM
07DE104D5	18	MAQQ6-1-AA	G0L020446-5	20	TO9/AIR		0.50000	SAM
07DE104D5	19	MAQRD-1-AA	G0L020446-8	20	TO9/AIR		0.50000	SAM
07DE104D5	20	MAT63-1-AD	G0L030524-1	20	8290/SOLID	31	10.98000	g
07DE104D5	21	MAFFX-1-AA	G0K220529-10 (25X)	20	8290/WASTE	25	0.10000	g
07DE104D5	22	MAT9E-1-AF	F0L030530-1	20	8290/SOLID	31	10.03500	g
DE104D5	23	MAT9K-1-AM	F0L030530-2	20	8290/SOLID		10.48500	g
/DE104D5	24	MAT9K-1-AN	F0L030530-2MS	20	8290/SOLID		10.21500	g
07DE104D5	25	MAT9K-1-AP	F0L030530-2MSD	20	8290/SOLID		10.00500	g
07DE104D5	26	MAT9M-1-AF	F0L030530-3	20	8290/SOLID		10.49500	g
07DE104D5	27	MAT9Q-1-AF	F0L030530-4	20	8290/SOLID		10.37500	g
07DE104D5	28	MAXGD-1-AC	G0L030524-1LCS	20	8290/SOLID	31	10.00000	g
07DE104D5	29	ST1207C	CS3 10DXN461				1.00000	
07DE104D5	30						1.00000	
07DE104D5	31						1.00000	
07DE104D5	32						1.00000	
07DE104D5	33		AS 12-07-10				1.00000	

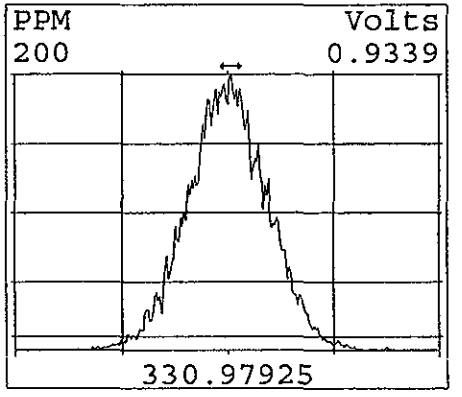
Logfile v1d
12/8/10
KSS

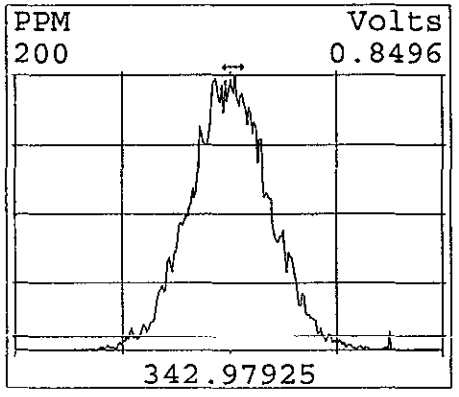
Peak Locate Examination: 7-DEC-2010:10:36 File:07DE104D5
Experiment:DIOXINRES Function:1 Reference:PFK

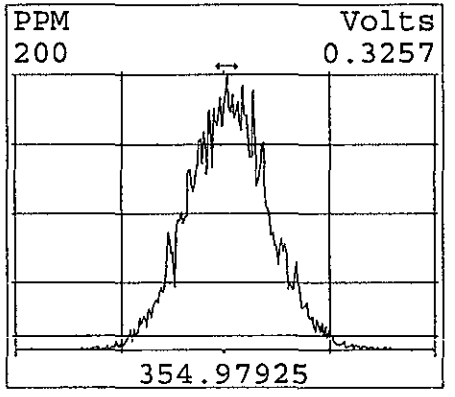


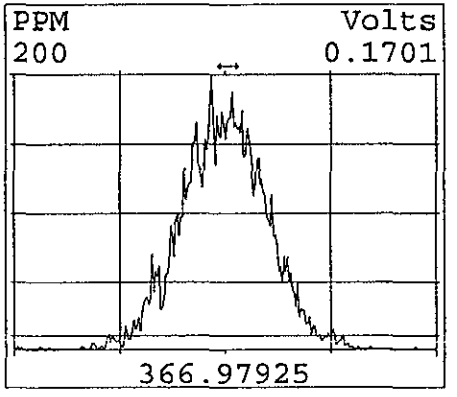


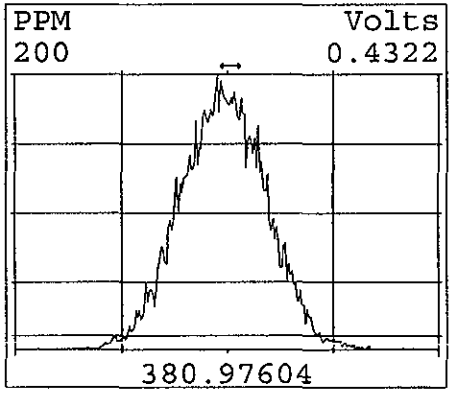


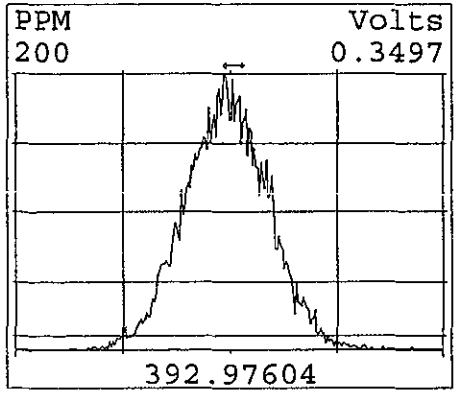


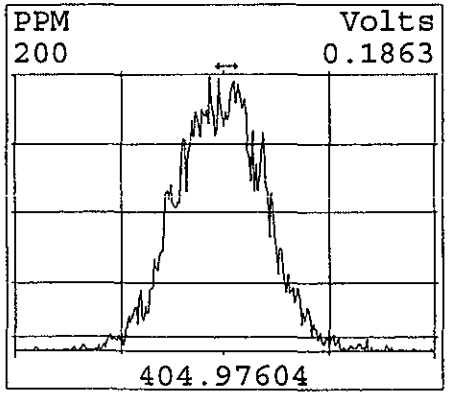


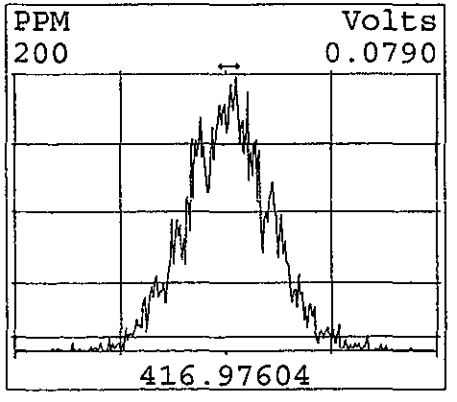




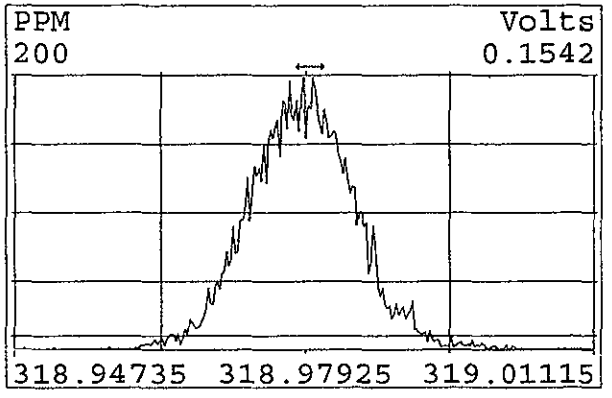


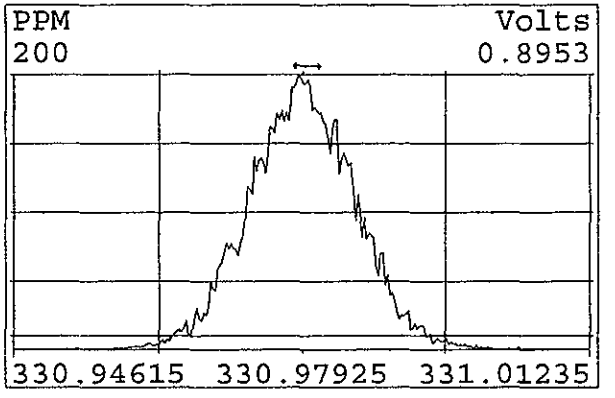


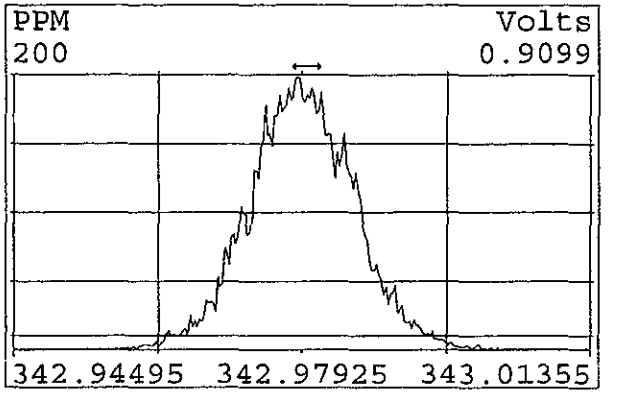


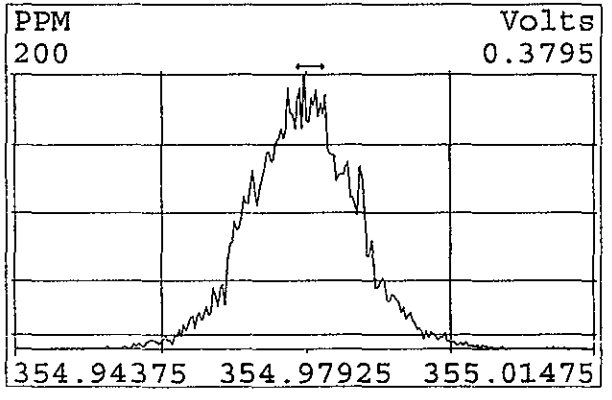


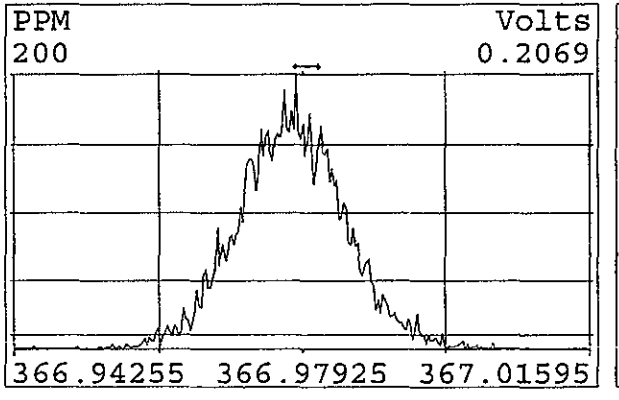
Peak Locate Examination: 7-DEC-2010:10:37 File:07DE104D5
Experiment:DIOXINRES Function:2 Reference:PFK

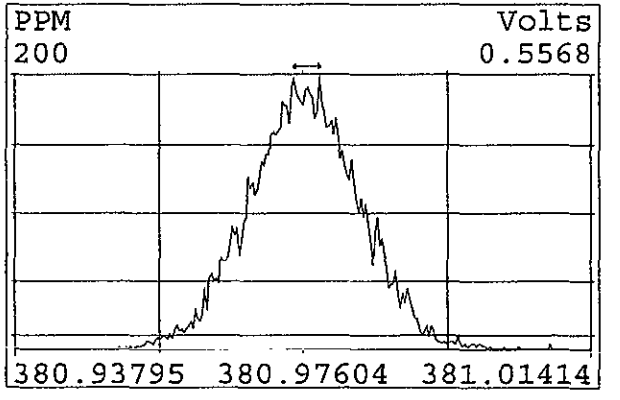


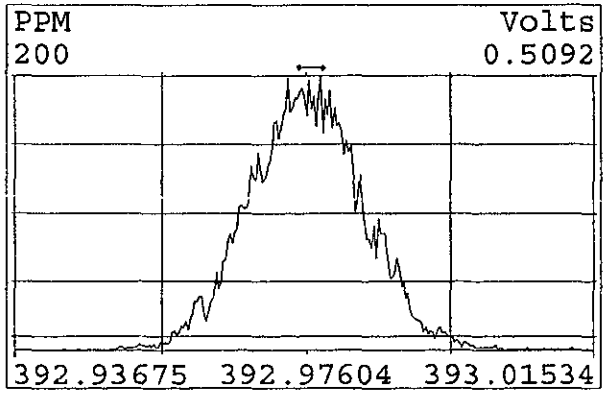


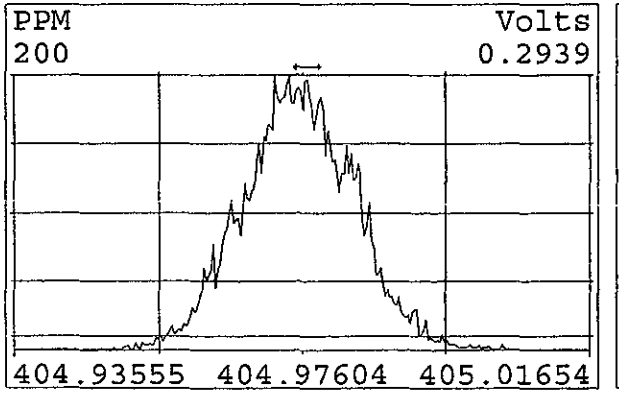


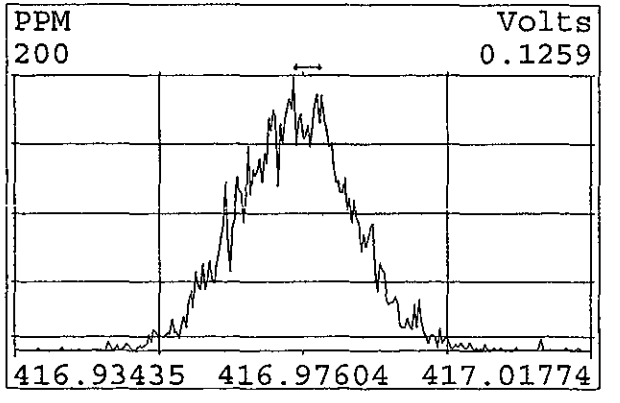




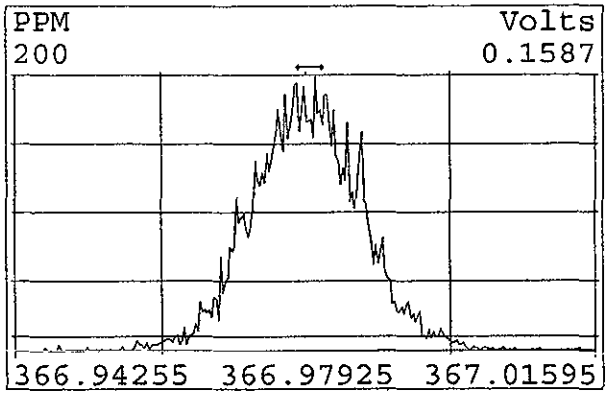


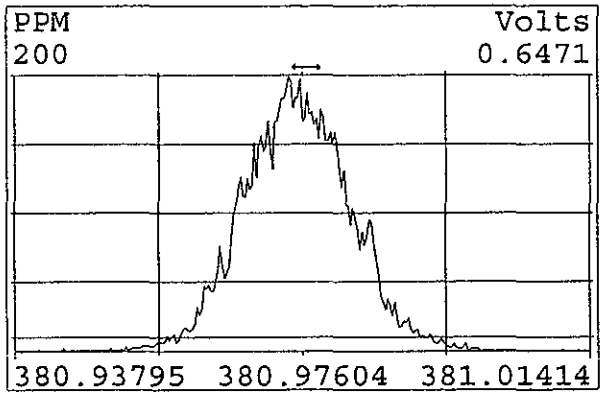


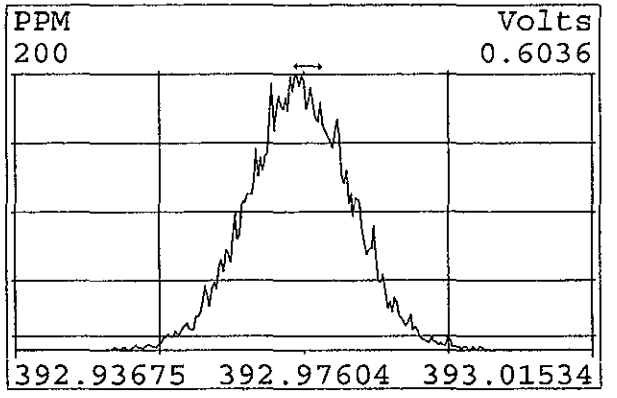


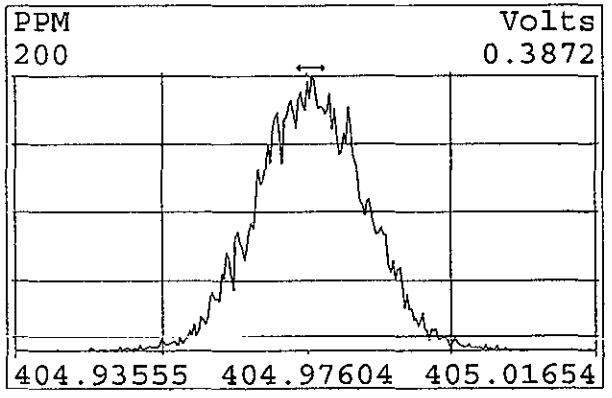


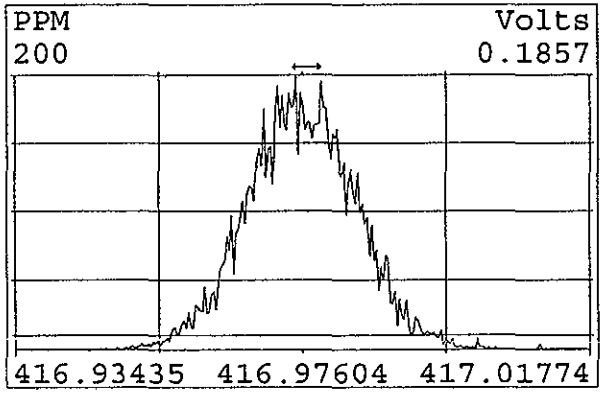
Peak Locate Examination: 7-DEC-2010:10:37 File:07DE104D5
Experiment:DIOXINRES Function:3 Reference:PFK

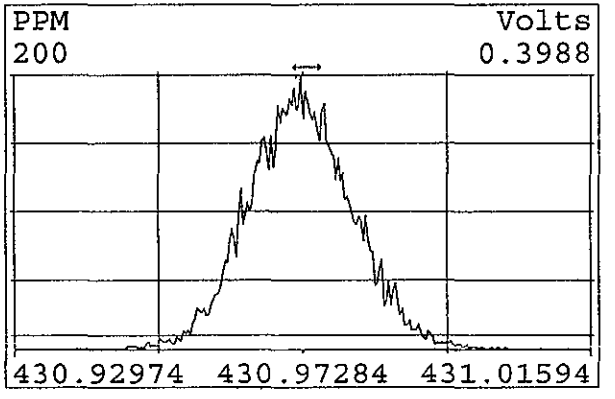


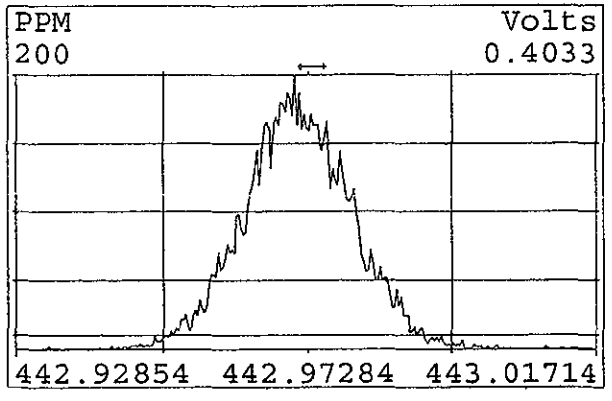


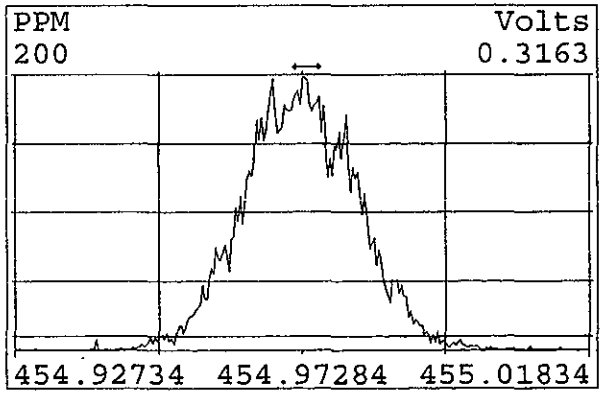




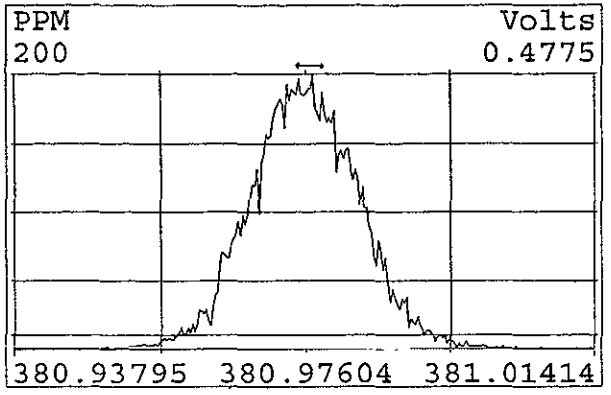


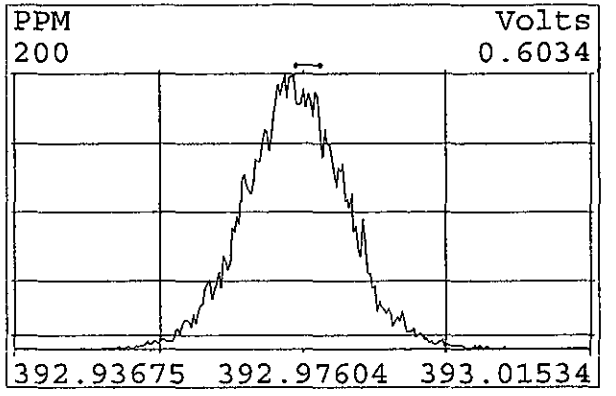


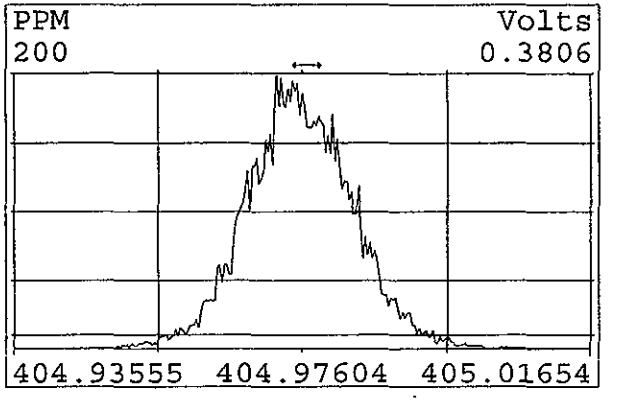


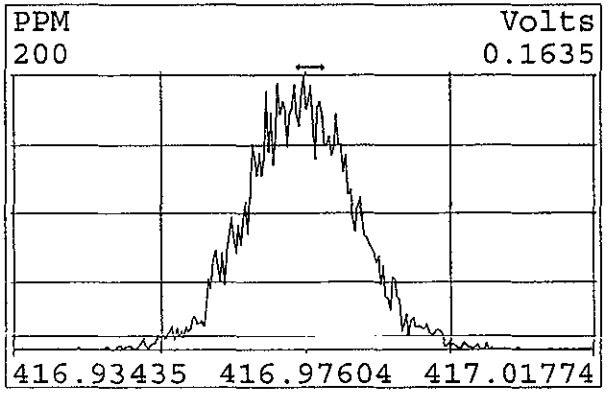


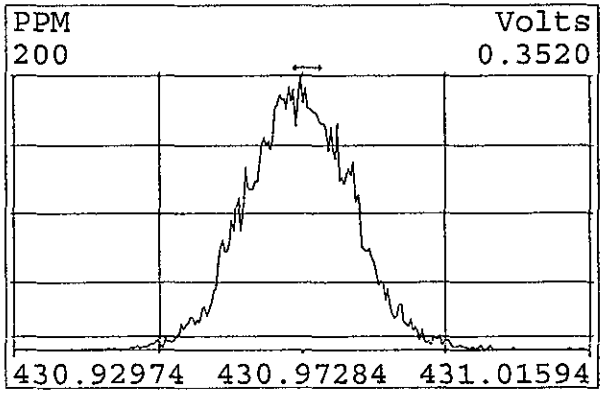
Peak Locate Examination: 7-DEC-2010:10:37 File:07DE104D5
Experiment:DIOXINRES Function:4 Reference:PFK

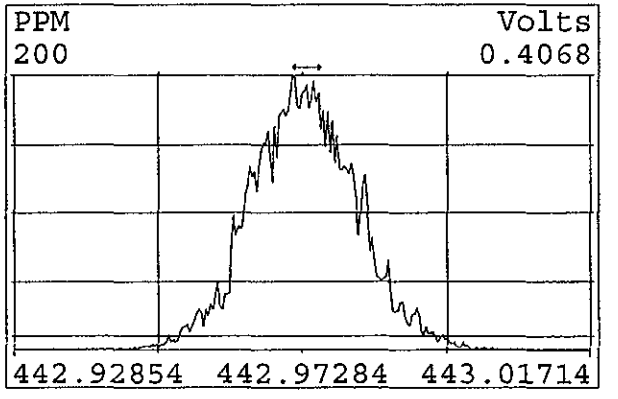


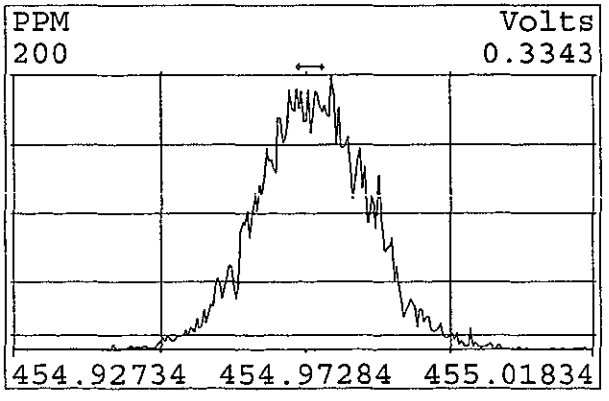


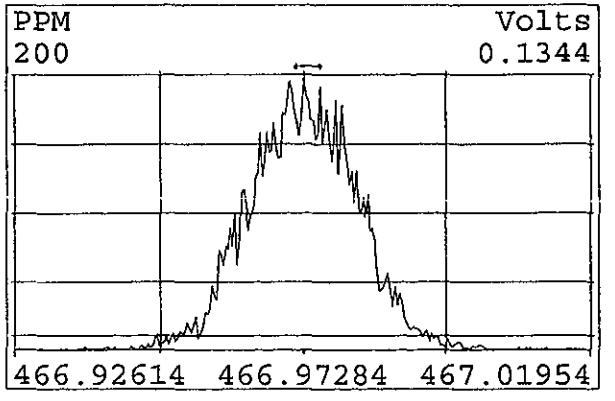


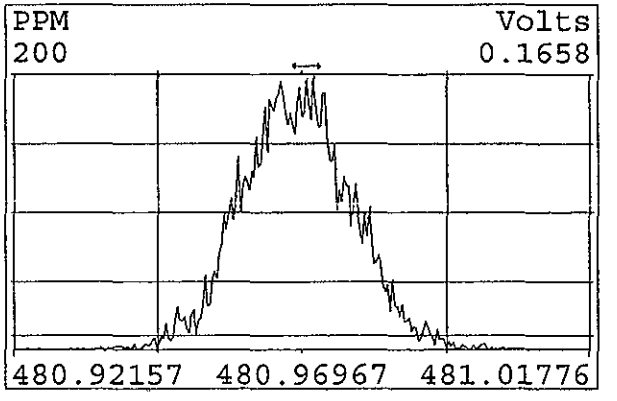




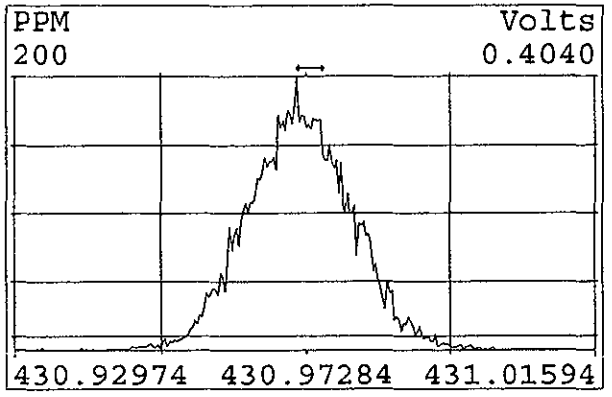


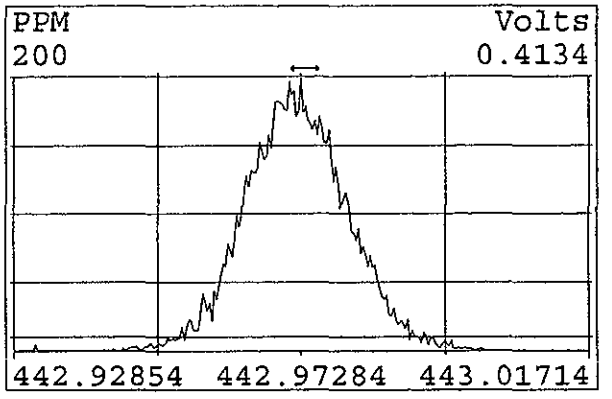


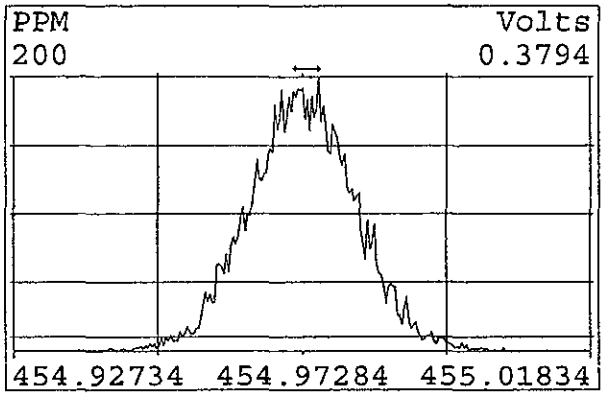


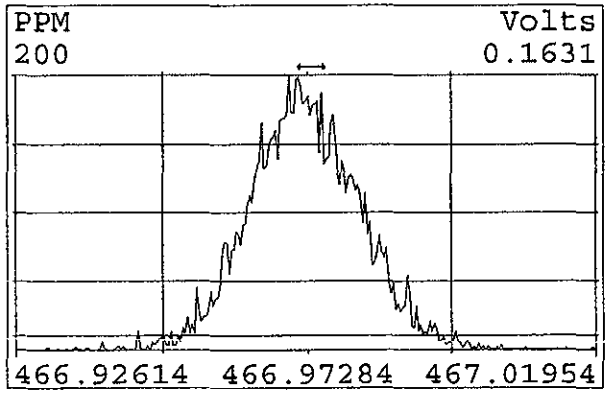


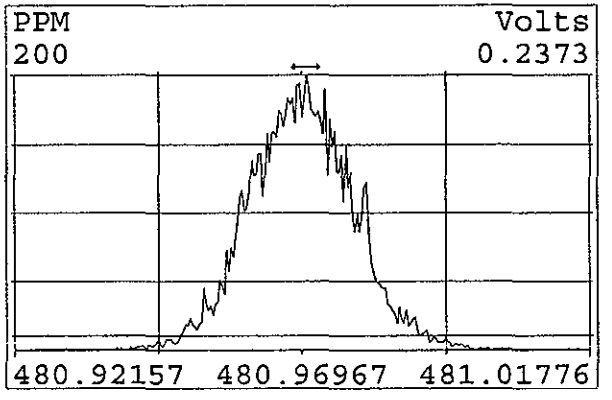
Peak Locate Examination: 7-DEC-2010:10:37 File:07DE104D5
Experiment:DIOXINRES Function:5 Reference:PFK

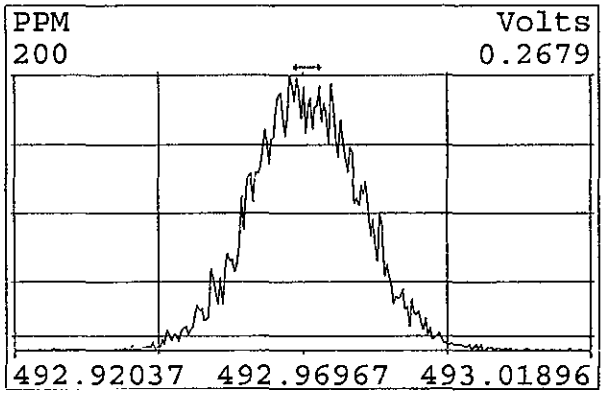


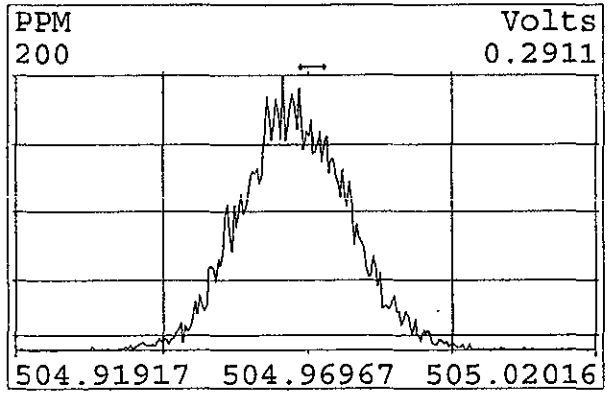


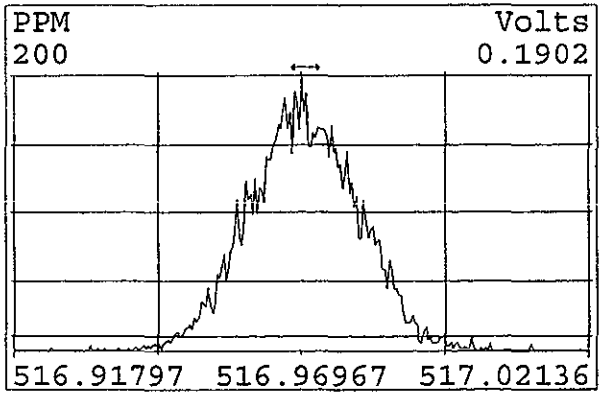




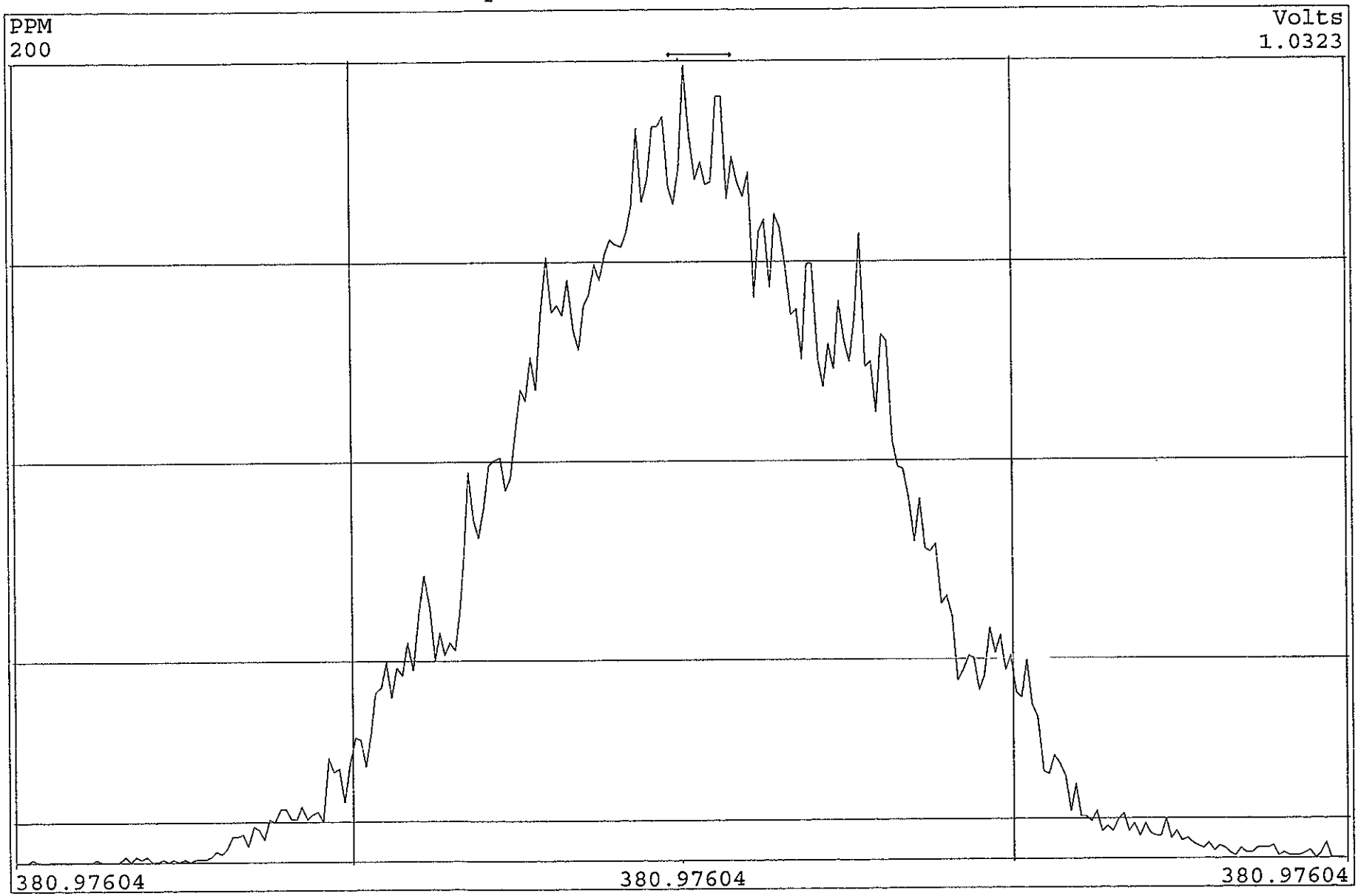




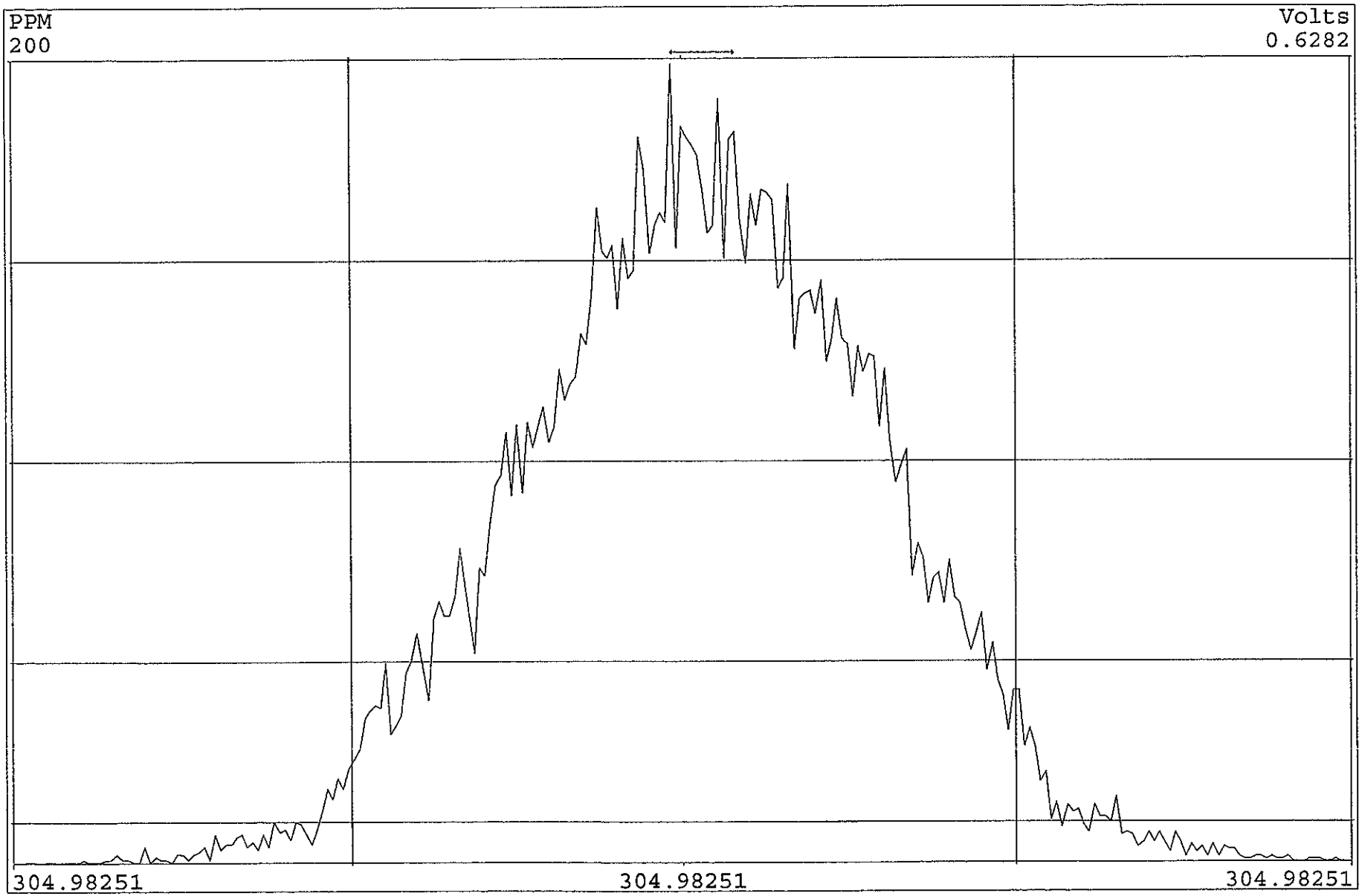




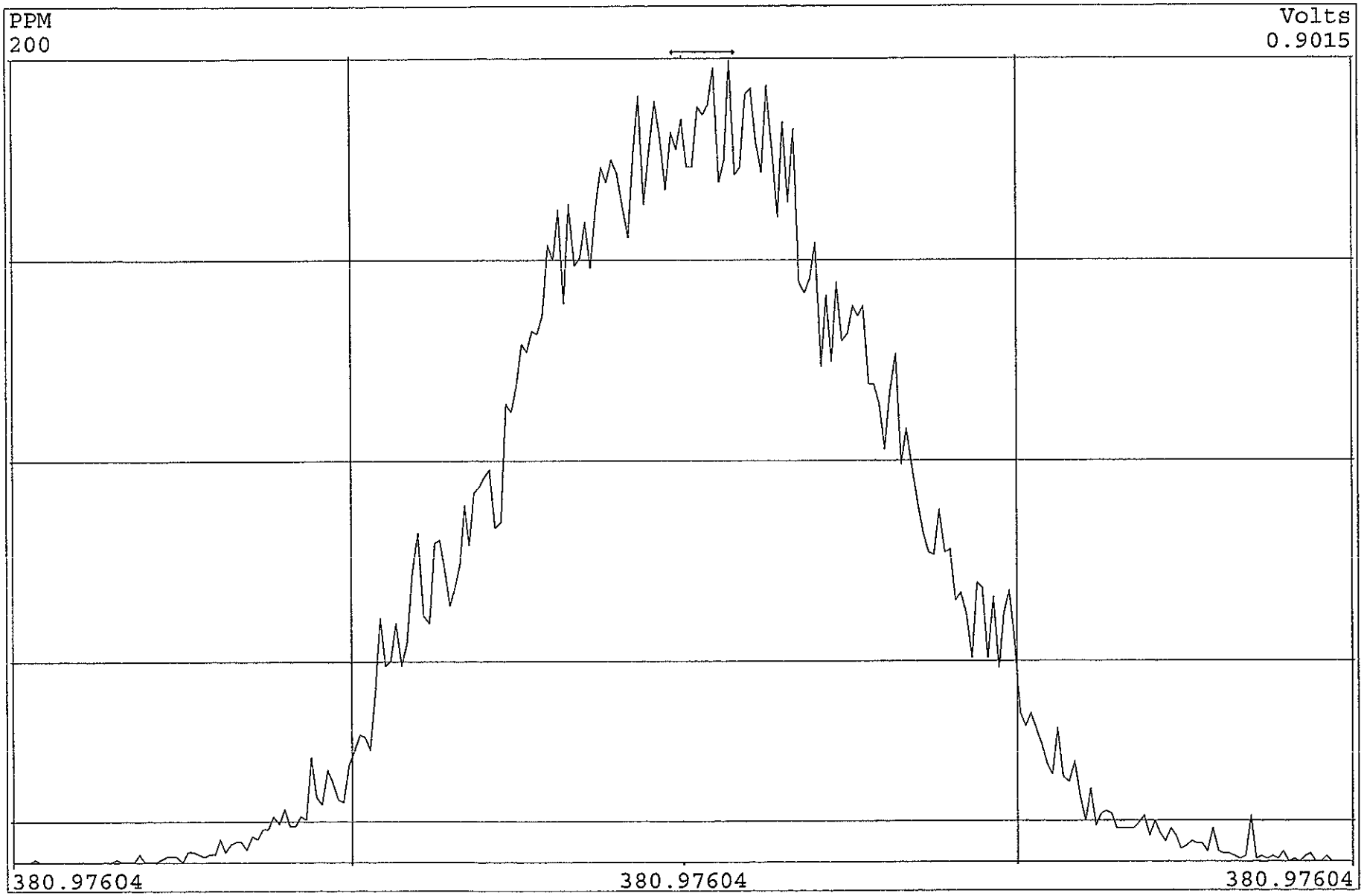
SIRLM Examination: 7-DEC-2010:19:30 File:07DE104D5
Experiment:DIOXINRES Function:6



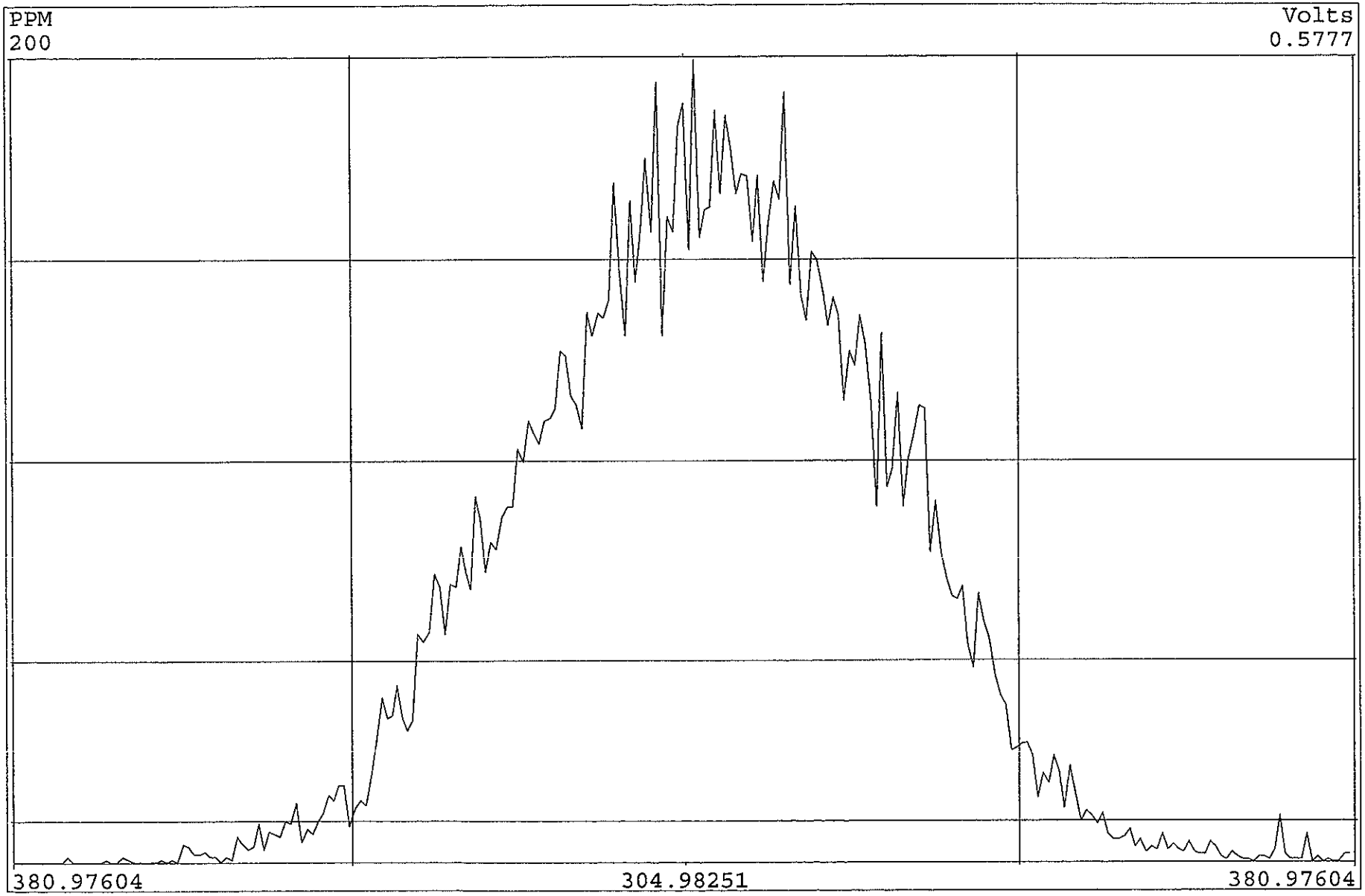
SIRLM Examination: 7-DEC-2010:19:31 File:07DE104D5
Experiment:DIOXINRES Function:7

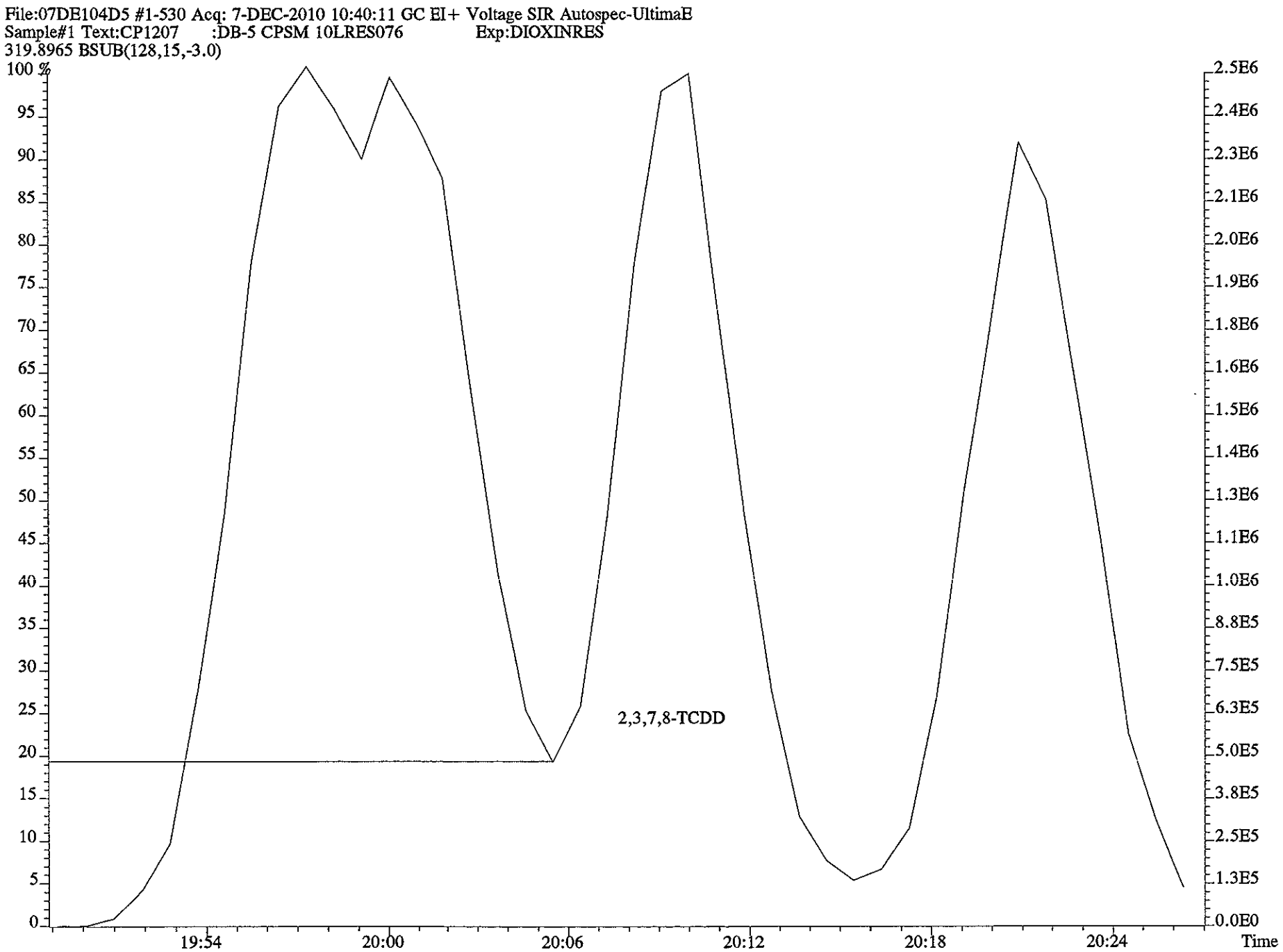


SIRLM Examination: 7-DEC-2010:20:14 File:07DE104D5
Experiment:DIOXINRES Function:6



SIRLM Examination: 7-DEC-2010:20:16 File:07DE104D5
Experiment:DIOXINRES Function:7




File:07DE104D5 #1-530 Acq: 7-DEC-2010 10:40:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1207 :DB-5 CPSM 10LRES076 Exp:DIOXINRES
319.8965 BSUB(128,15,-3.0)
100 %
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
2.5E6
2.4E6
2.3E6
2.1E6
2.0E6
1.9E6
1.8E6
1.6E6
1.5E6
1.4E6
1.3E6
1.1E6
1.0E6
8.8E5
7.5E5
6.3E5
5.0E5
3.8E5
2.5E5
1.3E5
0.0E0
2,3,7,8-TCDD
19:54
20:00
20:06
20:12
20:18
20:24
Time

Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5

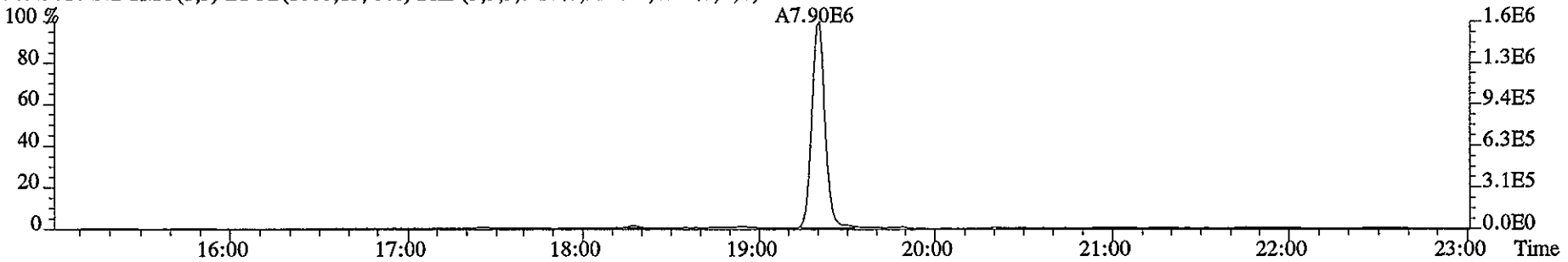
ST0721A :CS-1 10DXN342 ST0721B :CS-2 10DXN334 ST0721C :CS-3 10DXN336
ST0721D :CS-5 10DXN339 ST0721E :CS-4 10DXN337

Name	Mean	S. D.	%RSD	21JL10A4D5 S4 RRF1	21JL10A4D5 S5 RRF2	21JL10A4D5 S6 RRF3	21JL10A4D5 S7 RRF4	21JL10A4D5 S8 RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.229	0.154	12.5 %	1.30	1.31	1.39	1.03	1.11
2,3,7,8-TCDF	0.995	0.037	3.68 %	1.03	0.96	0.98	0.97	1.03
Total TCDF	0.995	0.037	3.68 %	1.03	0.96	0.98	0.97	1.03
13C-2,3,7,8-TCDD	0.905	0.029	3.25 %	0.92	0.92	0.94	0.88	0.87
2,3,7,8-TCDD	0.983	0.032	3.24 %	0.98	0.94	0.97	1.01	1.02
Total TCDD	0.983	0.032	3.24 %	0.98	0.94	0.97	1.01	1.02
37Cl-2,3,7,8-TCDD	1.326	0.015	1.12 %	1.33	1.31	1.32	1.35	1.32
13C-1,2,3,7,8-PeCDF	0.876	0.018	2.08 %	0.86	0.90	0.86	0.89	0.87
1,2,3,7,8-PeCDF	1.077	0.042	3.92 %	1.03	1.04	1.08	1.11	1.12
2,3,4,7,8-PeCDF	1.046	0.040	3.80 %	1.00	1.02	1.08	1.04	1.09
Total F2 PeCDF	1.061	0.039	3.67 %	1.01	1.03	1.08	1.08	1.10
Total F1 PeCDF	1.061	0.039	3.67 %	1.01	1.03	1.08	1.08	1.10
13C-1,2,3,7,8-PeCDD	0.661	0.010	1.45 %	0.65	0.66	0.67	0.67	0.65
1,2,3,7,8-PeCDD	0.925	0.038	4.09 %	0.89	0.88	0.94	0.95	0.97
Total PeCDD	0.925	0.038	4.09 %	0.89	0.88	0.94	0.95	0.97
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-
13C-1,2,3,4,7,8-HxCDF	1.045	0.067	6.44 %	1.03	1.15	0.98	1.00	1.07
1,2,3,4,7,8-HxCDF	1.217	0.012	1.02 %	1.21	1.20	1.22	1.22	1.23
1,2,3,6,7,8-HxCDF	1.282	0.089	6.95 %	1.19	1.22	1.41	1.33	1.26
2,3,4,6,7,8-HxCDF	1.233	0.080	6.49 %	1.19	1.15	1.35	1.27	1.21
1,2,3,7,8,9-HxCDF	1.098	0.096	8.73 %	1.08	0.99	1.25	1.10	1.06
Total HxCDF	1.208	0.066	5.43 %	1.17	1.14	1.31	1.23	1.19
13C-1,2,3,6,7,8-HxCDD	0.831	0.055	6.68 %	0.84	0.83	0.92	0.77	0.79
1,2,3,4,7,8-HxCDD	1.037	0.122	11.8 %	0.90	0.99	0.97	1.17	1.16

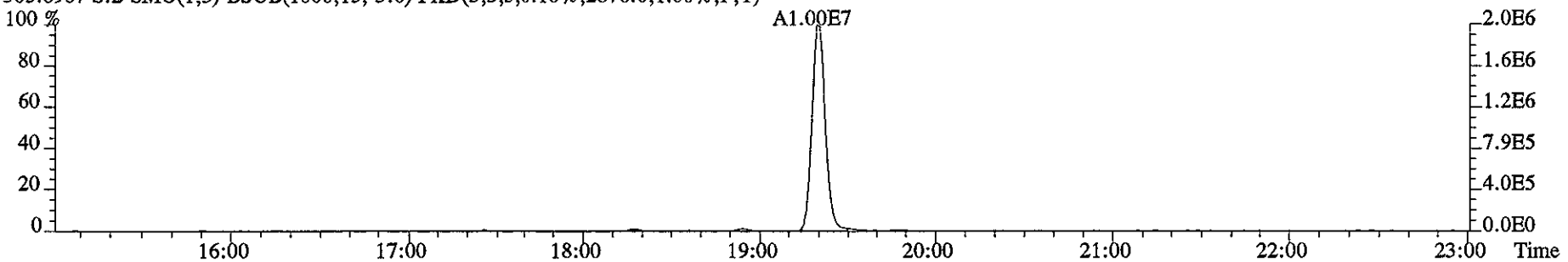
1,2,3,6,7,8-HxCDD	1.163	0.060	5.18 %	1.14	1.23	1.10	1.12	1.23
1,2,3,7,8,9-HxCDD	1.182	0.057	4.86 %	1.15	1.16	1.12	1.25	1.24
Total HxCDD	1.127	0.067	5.93 %	1.06	1.12	1.06	1.18	1.21
13C-1,2,3,4,6,7,8-HpCDF	0.910	0.051	5.65 %	0.99	0.91	0.92	0.87	0.86
1,2,3,4,6,7,8-HpCDF	1.346	0.027	1.99 %	1.31	1.34	1.35	1.35	1.38
1,2,3,4,7,8,9-HpCDF	1.093	0.049	4.49 %	1.01	1.09	1.11	1.13	1.13
Total HpCDF	1.220	0.037	3.05 %	1.16	1.21	1.23	1.24	1.26
13C-1,2,3,4,6,7,8-HpCDD	0.827	0.049	5.98 %	0.89	0.85	0.83	0.76	0.79
1,2,3,4,6,7,8-HpCDD	1.072	0.028	2.61 %	1.07	1.03	1.07	1.09	1.10
Total HpCDD	1.072	0.028	2.61 %	1.07	1.03	1.07	1.09	1.10
13C-OCDD	0.620	0.029	4.60 %	0.66	0.63	0.63	0.60	0.59
OCDF	1.370	0.027	1.98 %	1.36	1.35	1.35	1.39	1.41
OCDD	1.199	0.066	5.48 %	1.31	1.17	1.16	1.17	1.19

File:07DE104D5 #1-530 Acq: 7-DEC-2010 11:24:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1207 :CS3 10DXN461 Exp:DIOXINRES

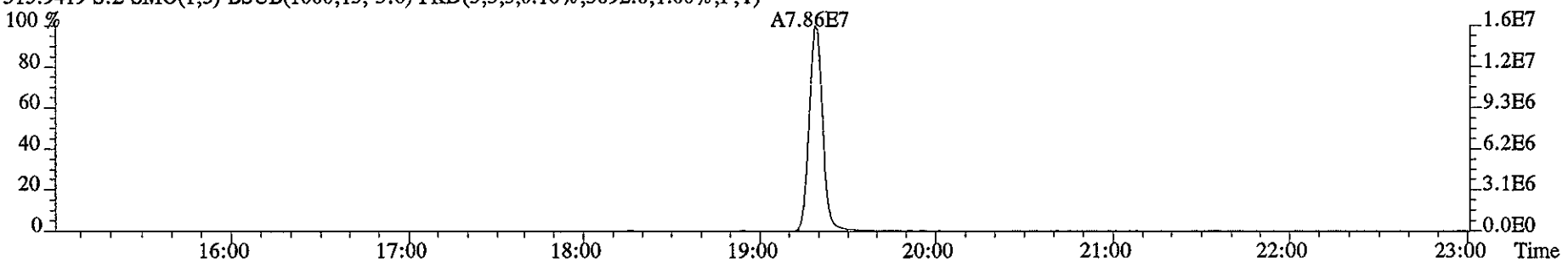
303.9016 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9248.0,1.00%,F,T)



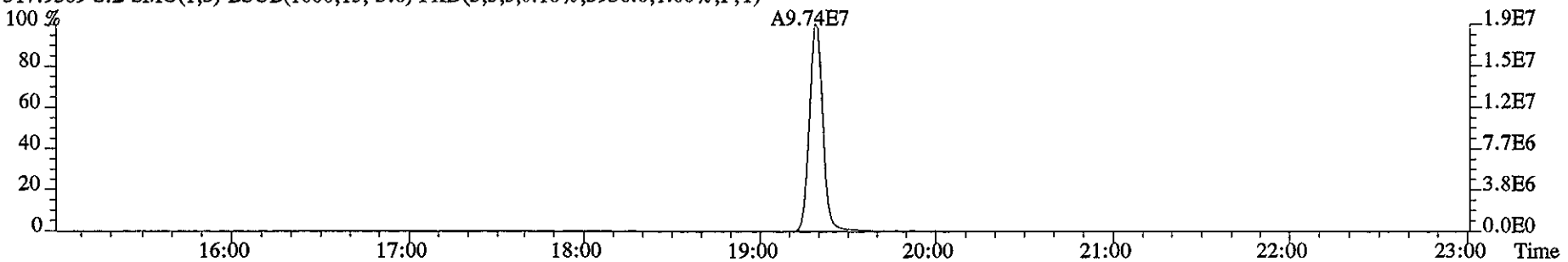
305.8987 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2876.0,1.00%,F,T)



315.9419 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3092.0,1.00%,F,T)

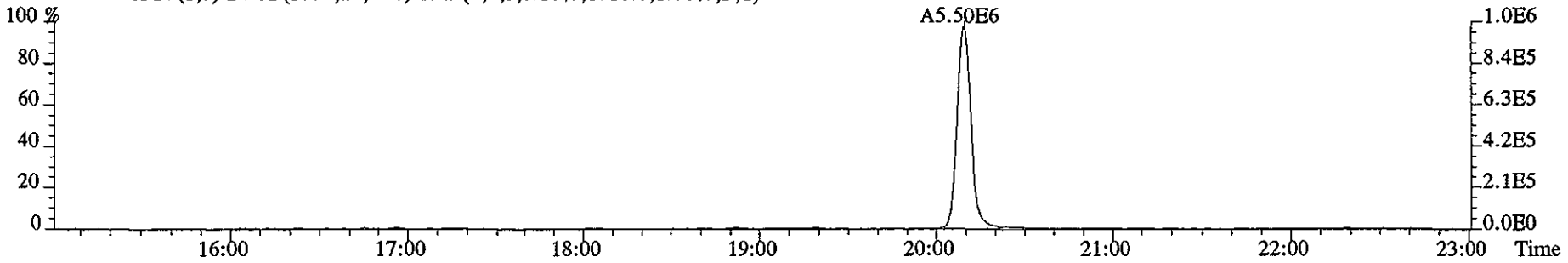


317.9389 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3936.0,1.00%,F,T)

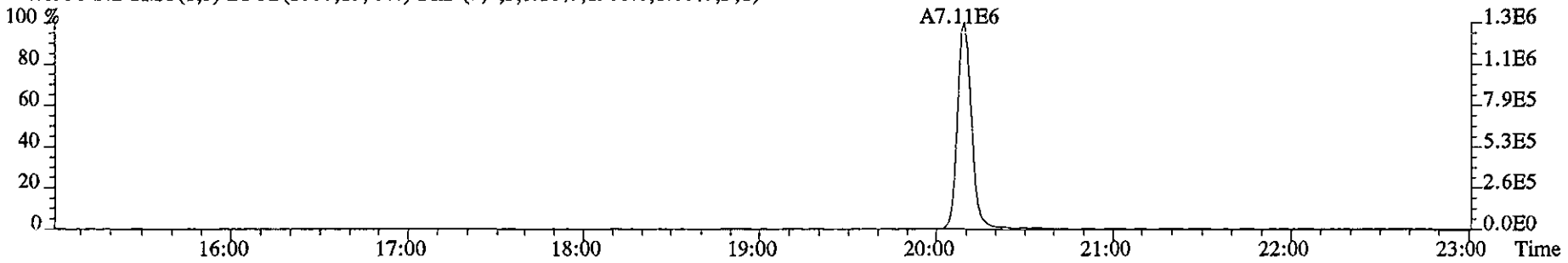


File:07DE104D5 #1-530 Acq: 7-DEC-2010 11:24:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1207 :CS3 10DXN461 Exp:DIOXINRES

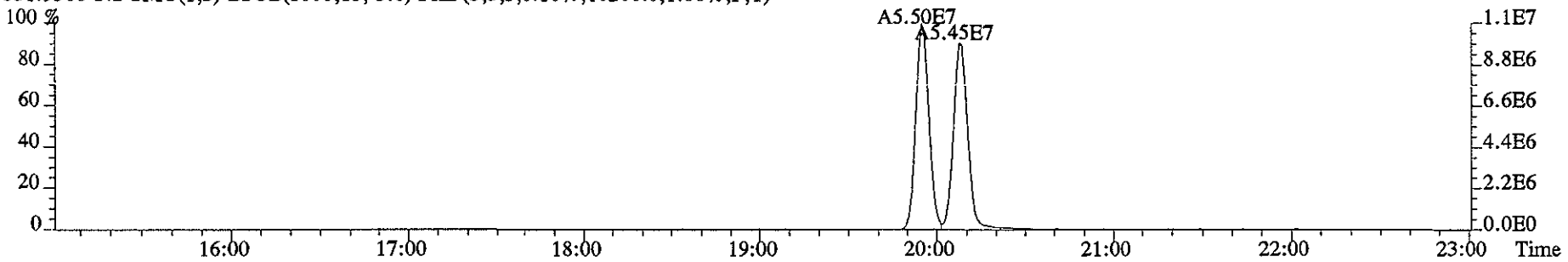
319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1716.0,1.00%,F,T)



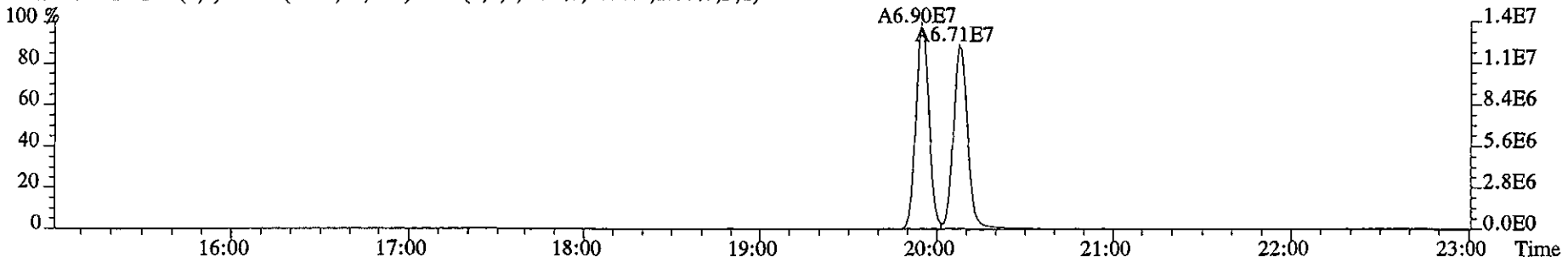
321.8936 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1908.0,1.00%,F,T)



331.9368 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10208.0,1.00%,F,T)

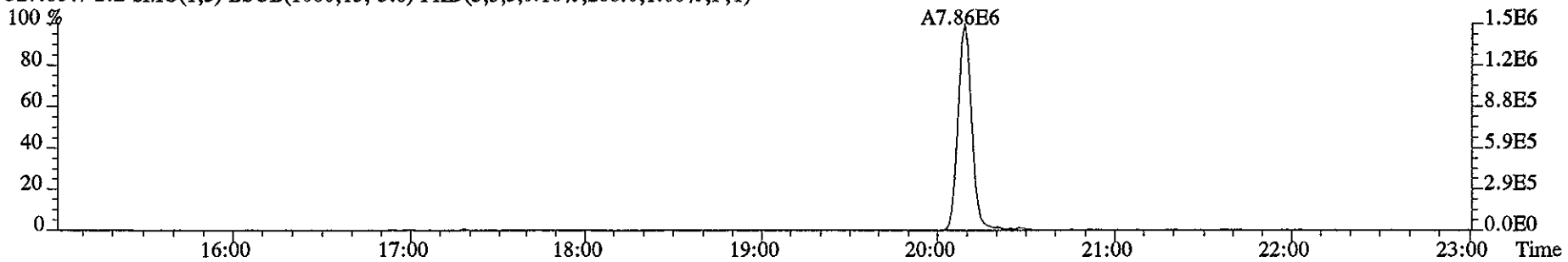


333.9339 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2652.0,1.00%,F,T)

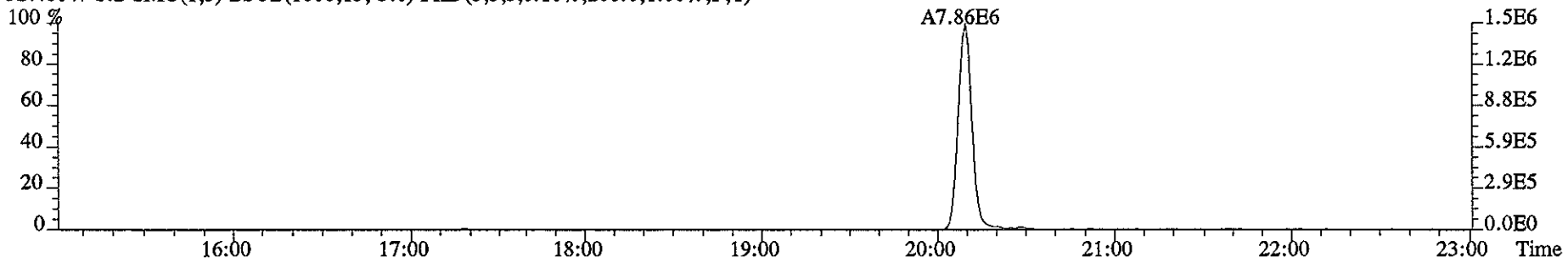


File:07DE104D5 #1-530 Acq: 7-DEC-2010 11:24:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1207 :CS3 10DXN461 Exp:DIOXINRES

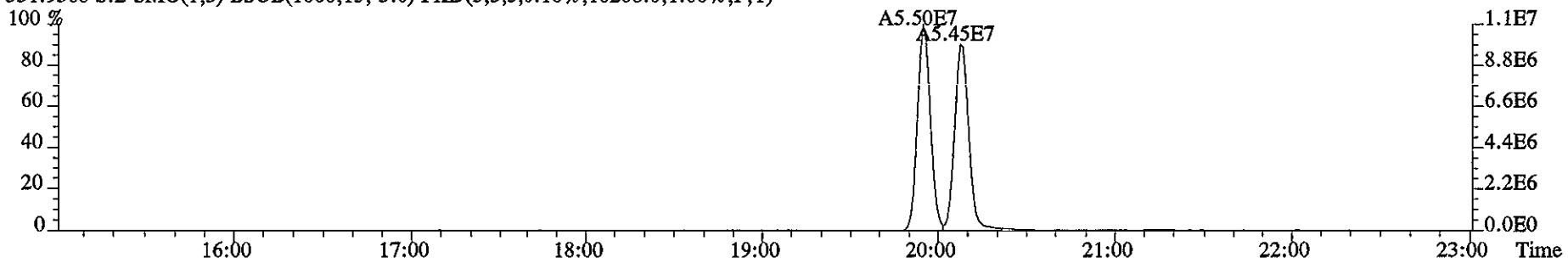
327.8847 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,288.0,1.00%,F,T)



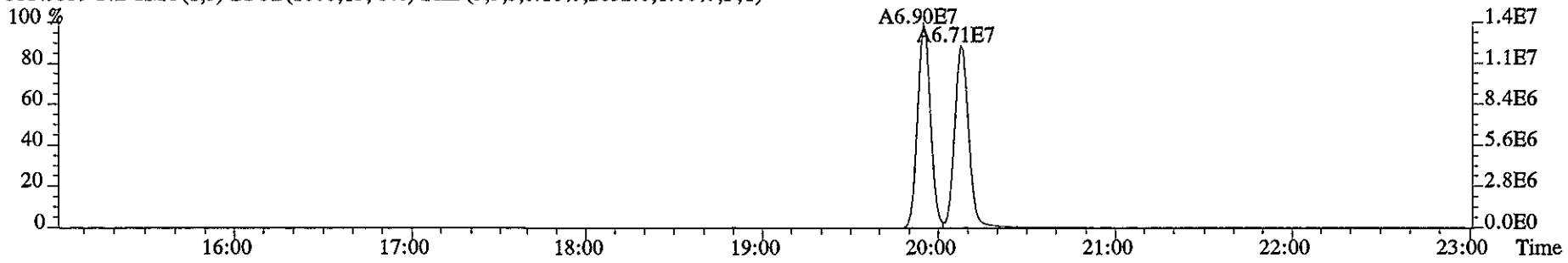
327.8847 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,288.0,1.00%,F,T)



331.9368 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10208.0,1.00%,F,T)

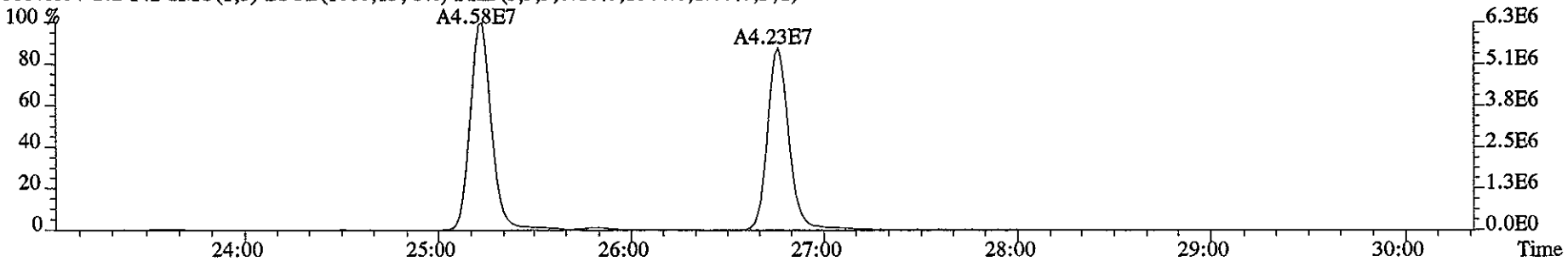


333.9339 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2652.0,1.00%,F,T)

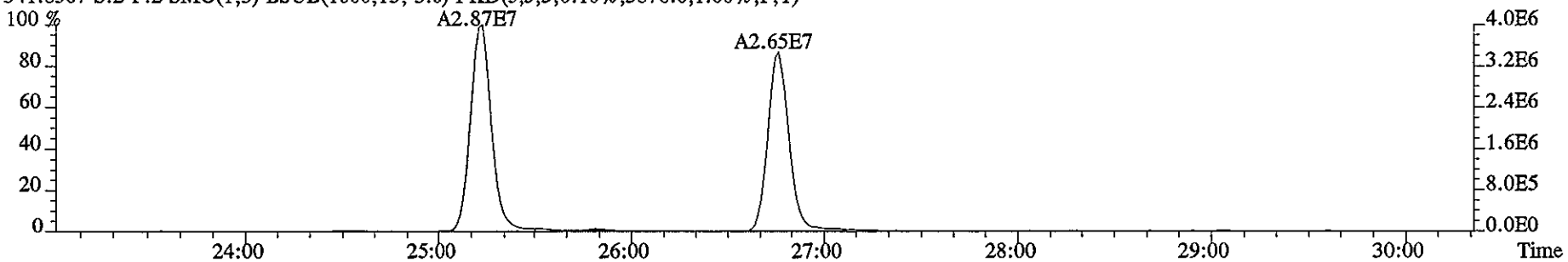


File:07DE104D5 #1-470 Acq: 7-DEC-2010 11:24:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1207 :CS3 10DXN461 Exp:DIOXINRES

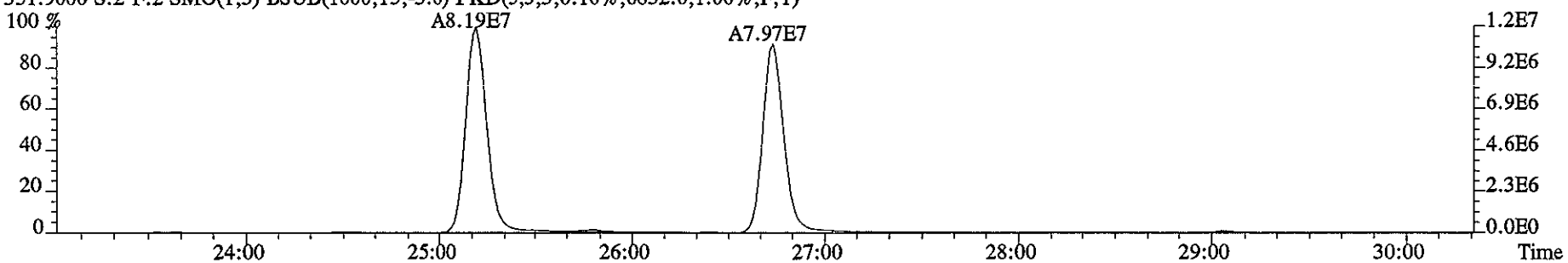
339.8597 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1844.0,1.00%,F,T)



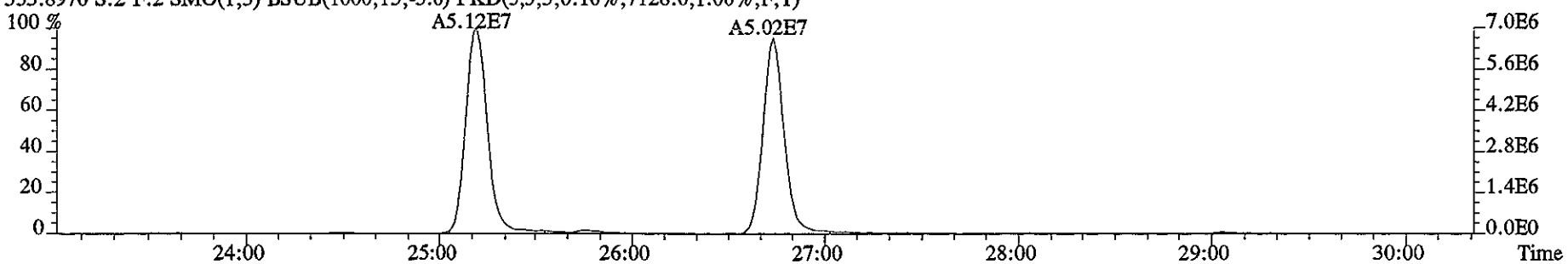
341.8567 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3876.0,1.00%,F,T)



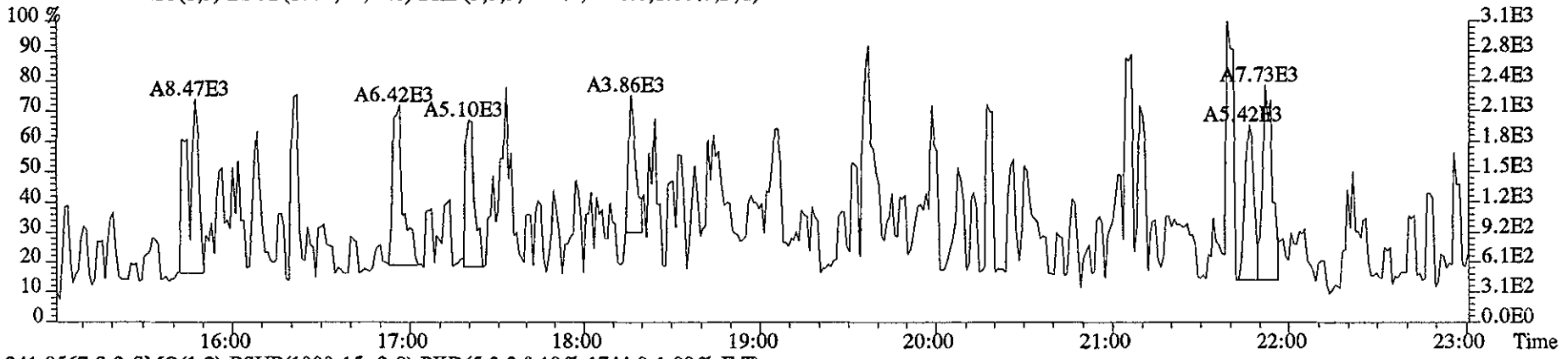
351.9000 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6852.0,1.00%,F,T)



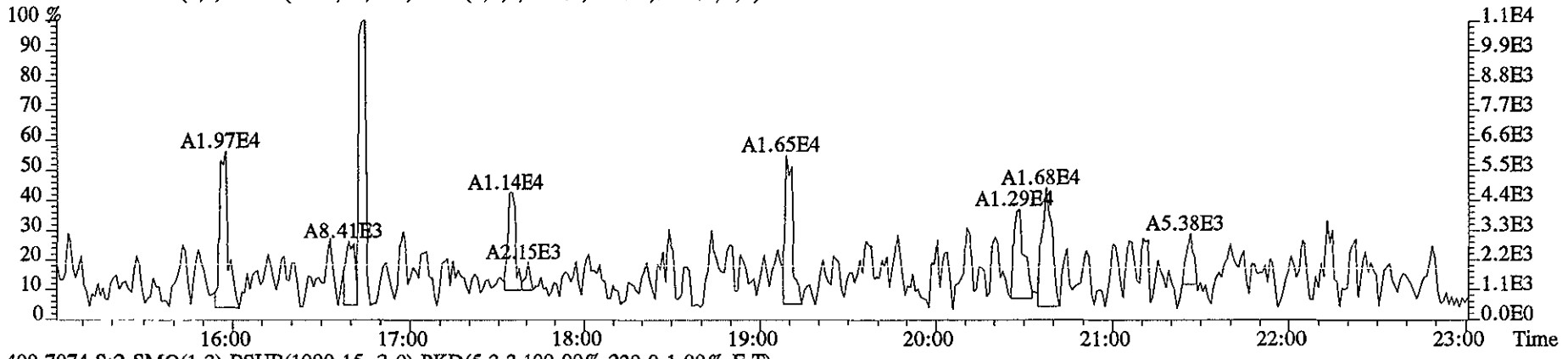
353.8970 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7128.0,1.00%,F,T)



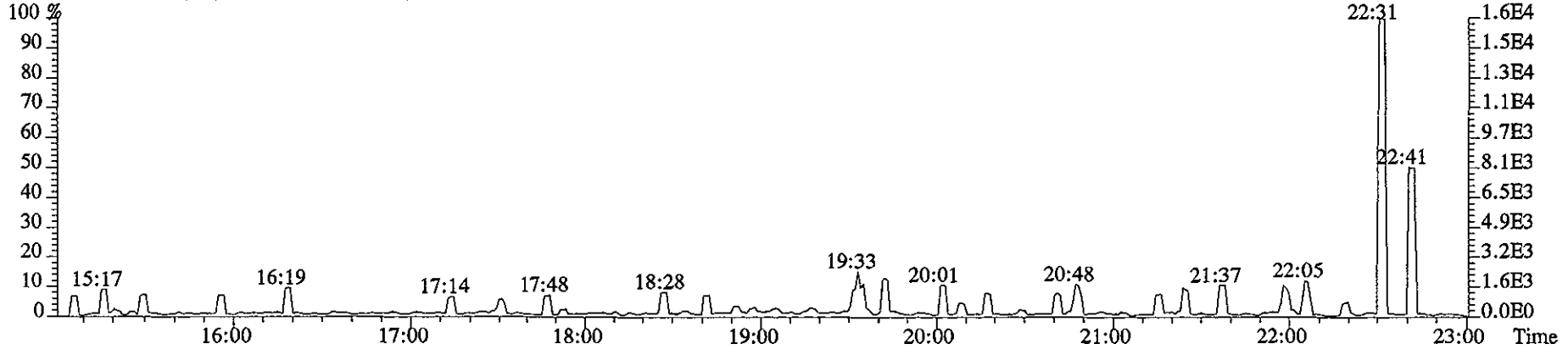
File:07DE104D5 #1-530 Acq: 7-DEC-2010 11:24:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1207 :CS3 10DXN461 Exp:DIOXINRES
339.8597 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1088.0,1.00%,F,T)



341.8567 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1744.0,1.00%,F,T)

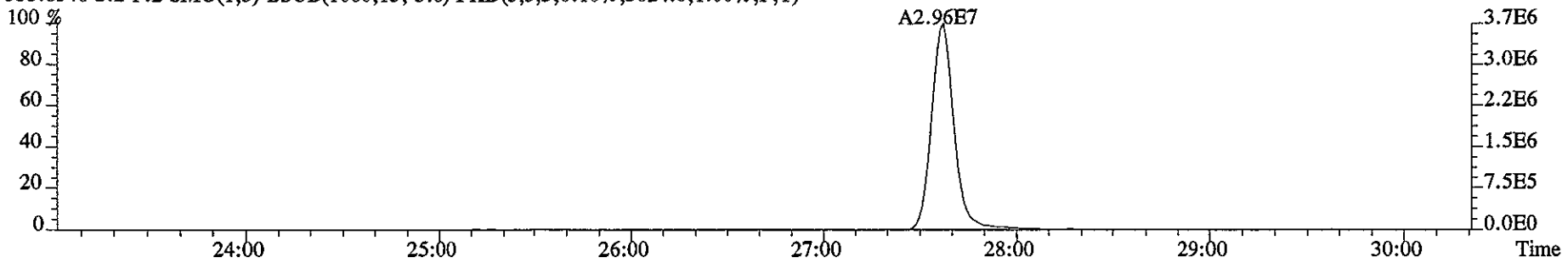


409.7974 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,220.0,1.00%,F,T)

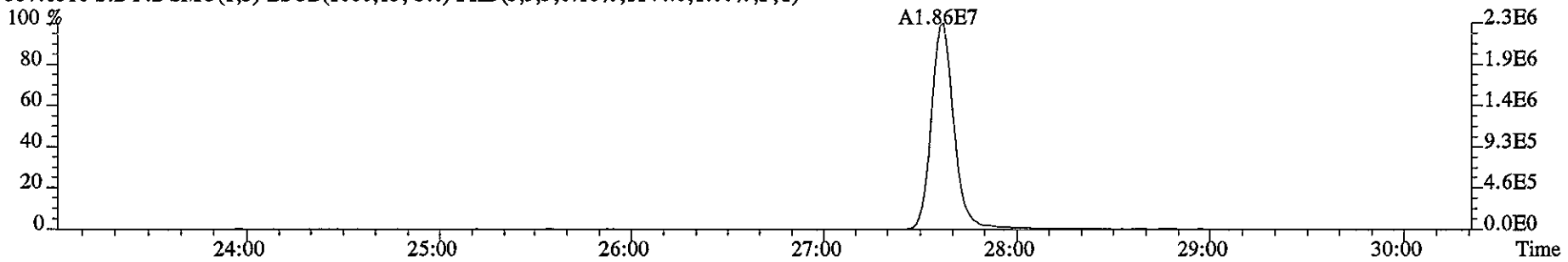


File:07DE104D5 #1-470 Acq: 7-DEC-2010 11:24:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1207 :CS3 10DXN461 Exp:DIOXINRES

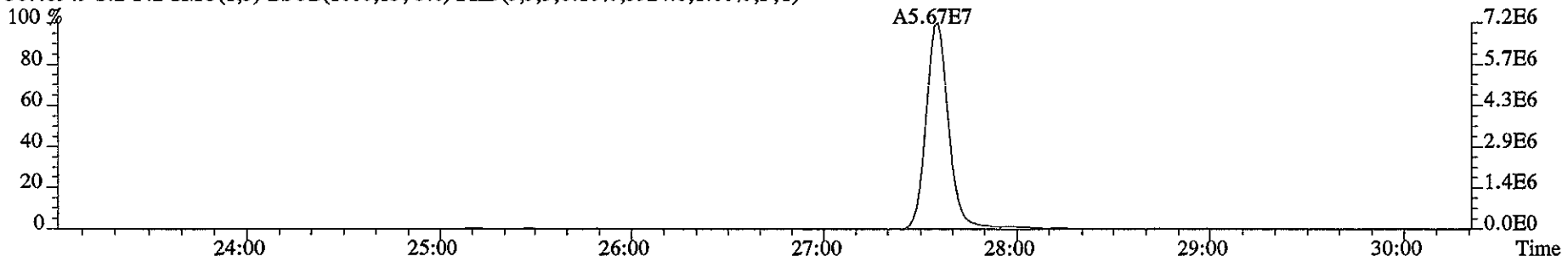
355.8546 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3024.0,1.00%,F,T)



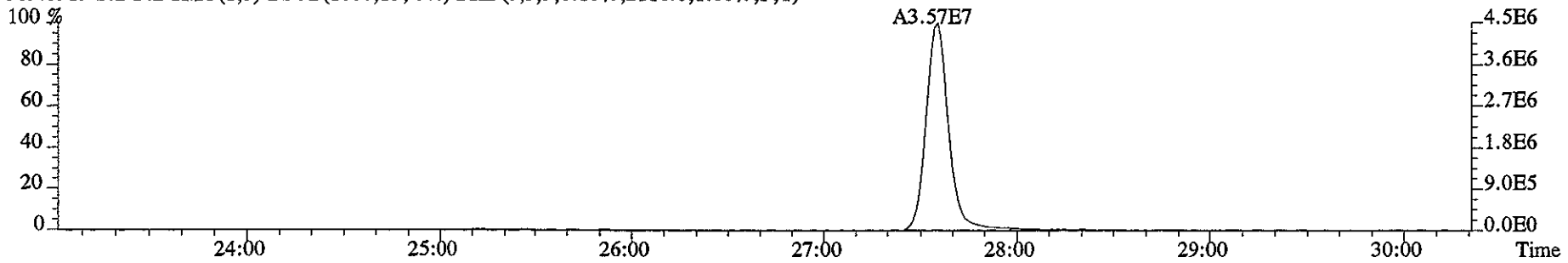
357.8516 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1144.0,1.00%,F,T)



367.8949 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3924.0,1.00%,F,T)

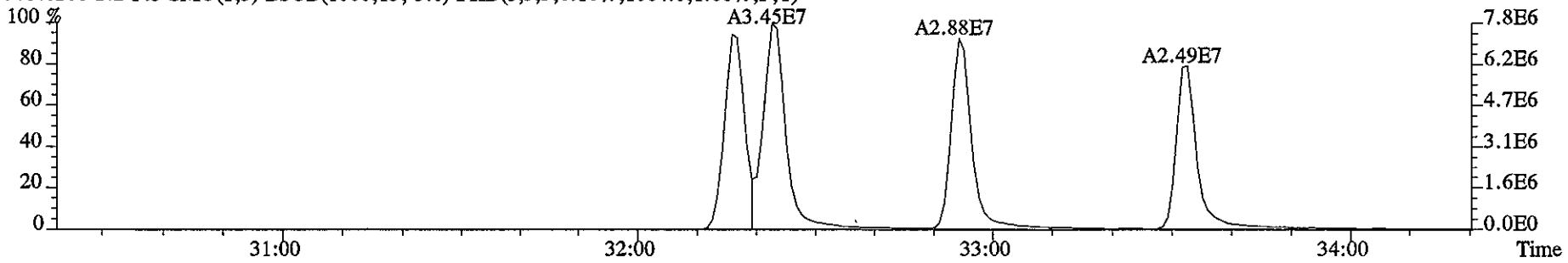


369.8919 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2116.0,1.00%,F,T)

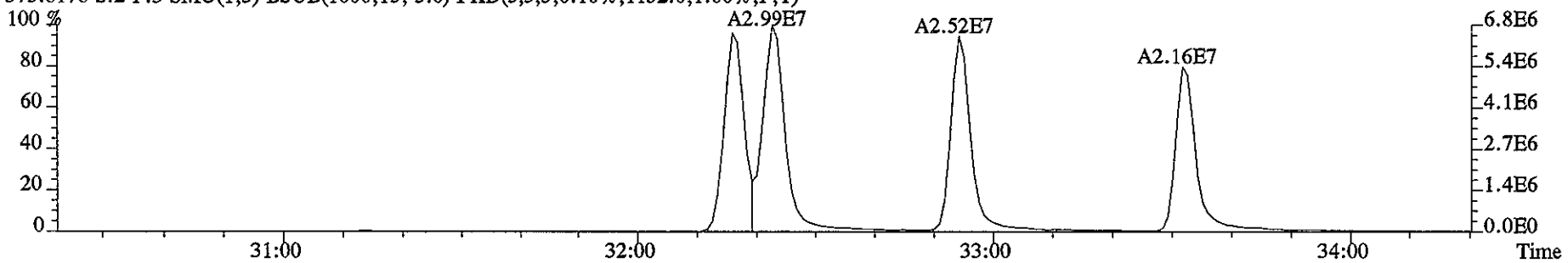


File:07DE104D5 #1-286 Acq: 7-DEC-2010 11:24:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1207 :CS3 10DXN461 Exp:DIOXINRES

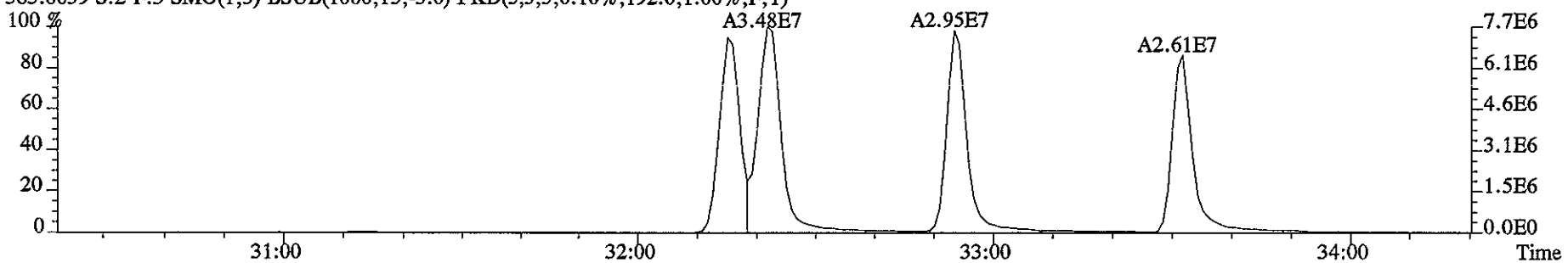
373.8208 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1064.0,1.00%,F,T)



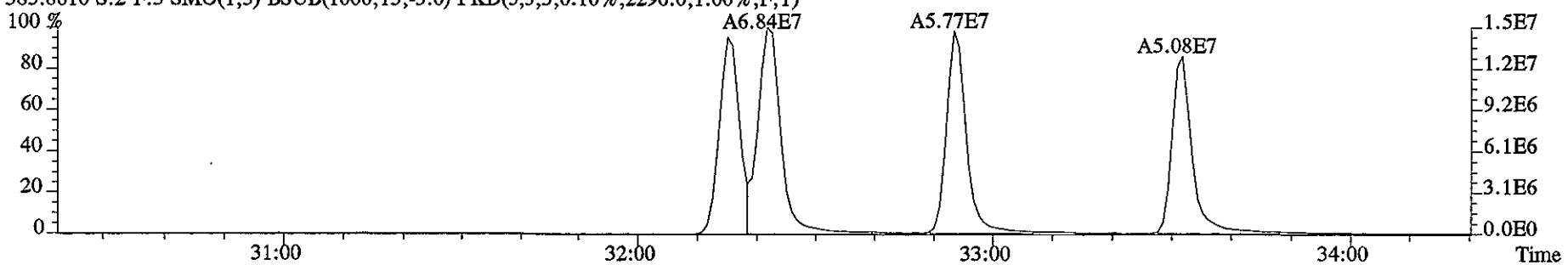
375.8178 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1132.0,1.00%,F,T)



383.8639 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,192.0,1.00%,F,T)

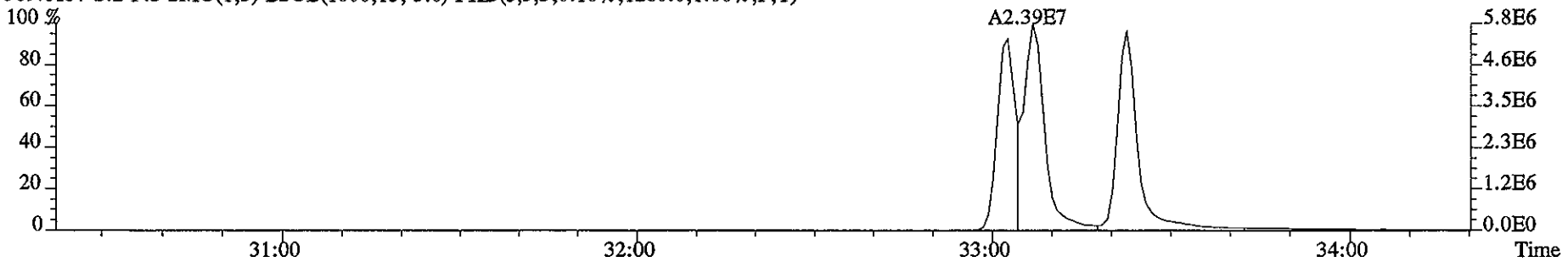


385.8610 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2296.0,1.00%,F,T)

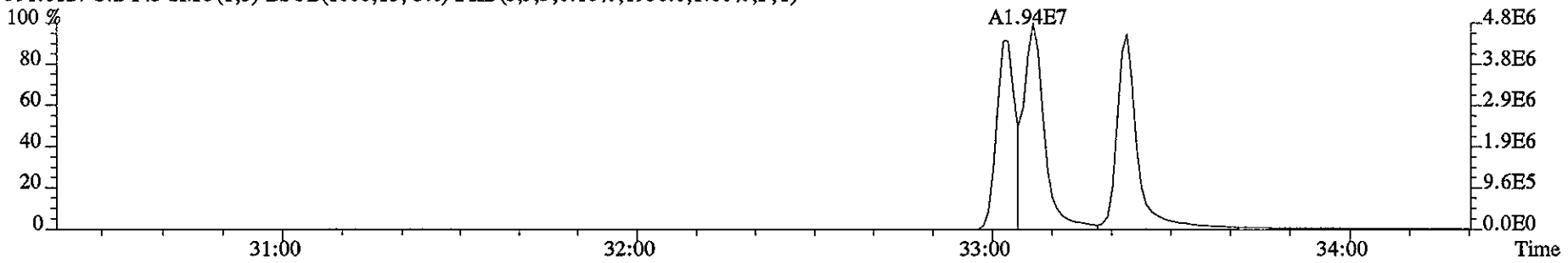


File:07DE104D5 #1-286 Acq: 7-DEC-2010 11:24:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1207 :CS3 10DXN461 Exp:DIOXINRES

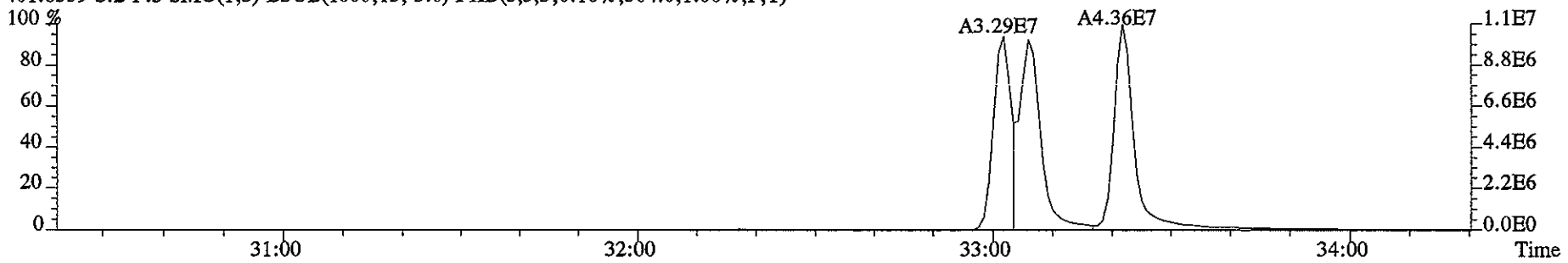
389.8157 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1280.0,1.00%,F,T)



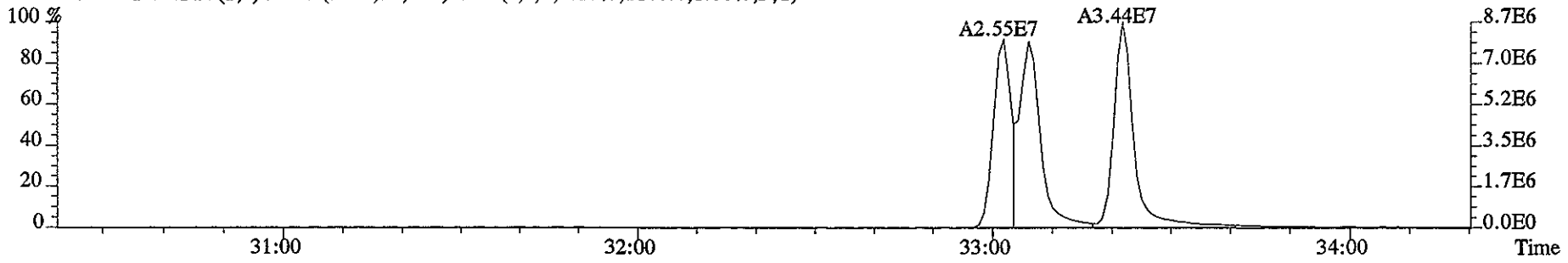
391.8127 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1936.0,1.00%,F,T)



401.8559 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,504.0,1.00%,F,T)

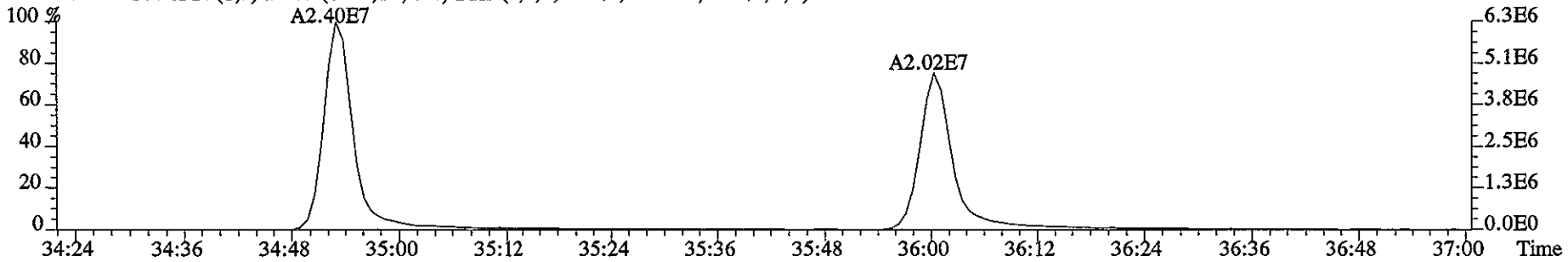


403.8529 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1160.0,1.00%,F,T)

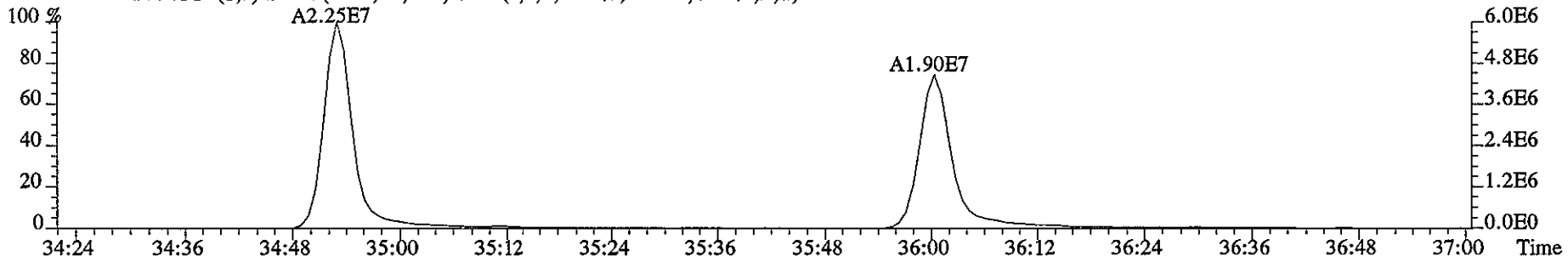


File:07DE104D5 #1-201 Acq: 7-DEC-2010 11:24:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1207 :CS3 10DXN461 Exp:DIOXINRES

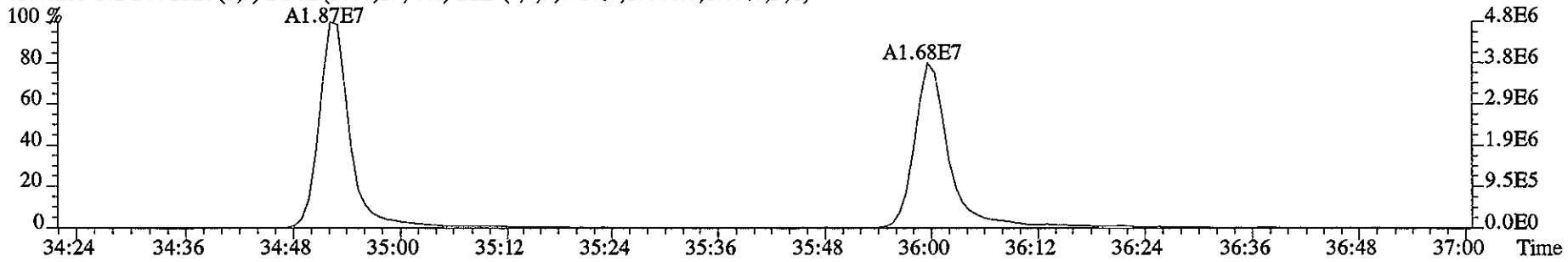
407.7818 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14412.0,1.00%,F,T)



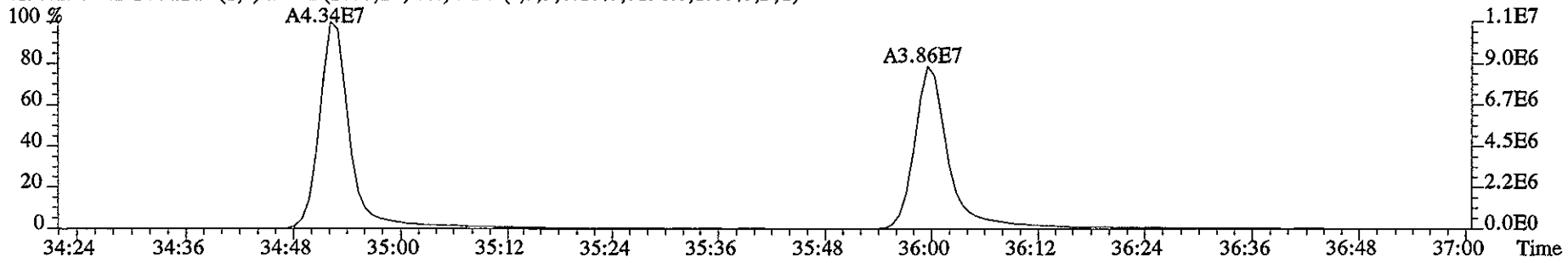
409.7789 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4520.0,1.00%,F,T)



417.8253 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15780.0,1.00%,F,T)

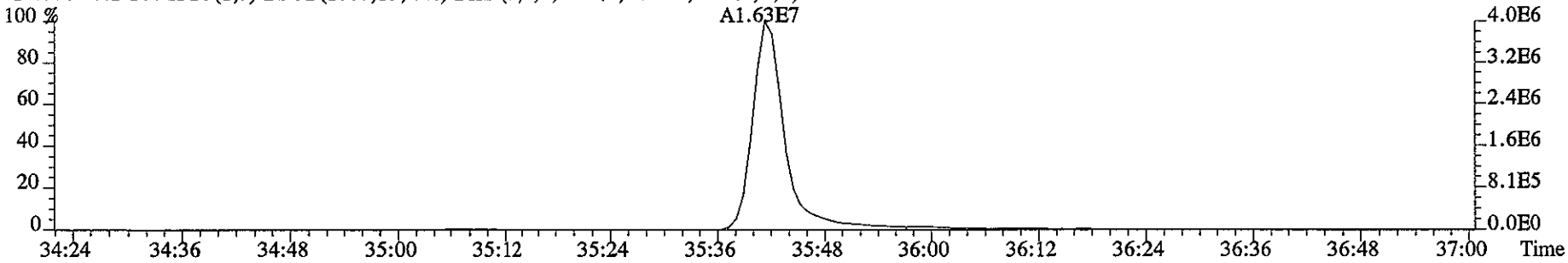


419.8220 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7196.0,1.00%,F,T)

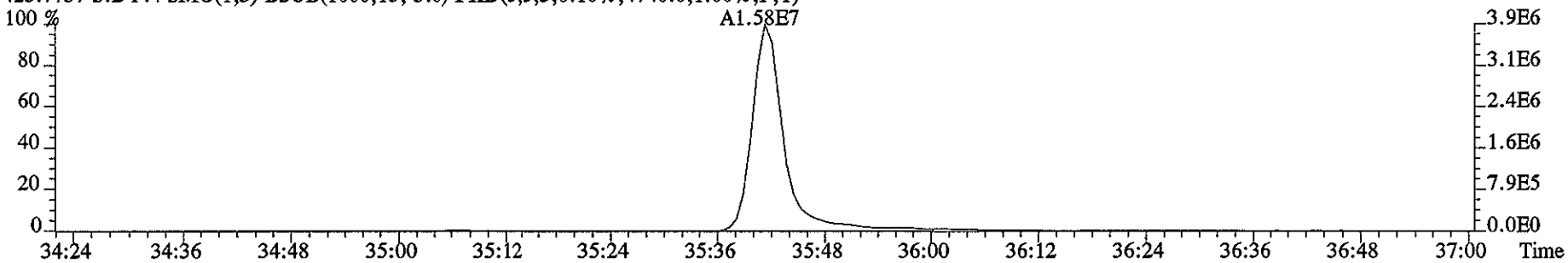


File:07DE104D5 #1-201 Acq: 7-DEC-2010 11:24:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1207 :CS3 10DXN461 Exp:DIOXINRES

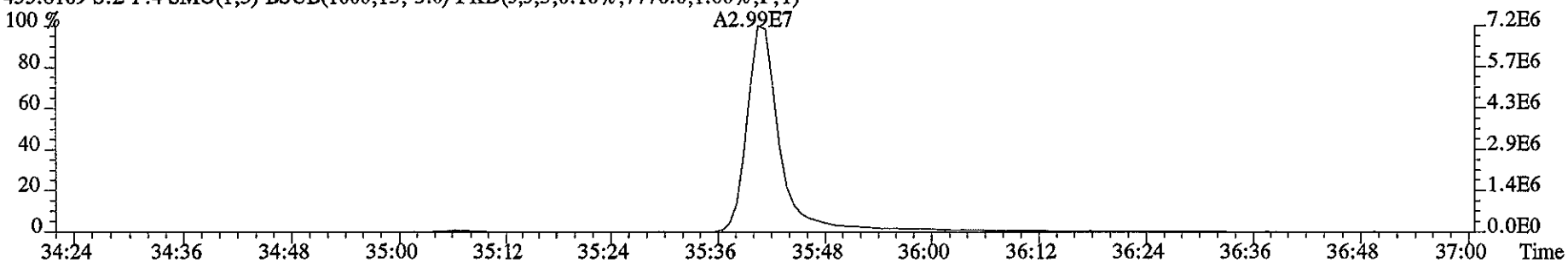
423.7766 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3440.0,1.00%,F,T)



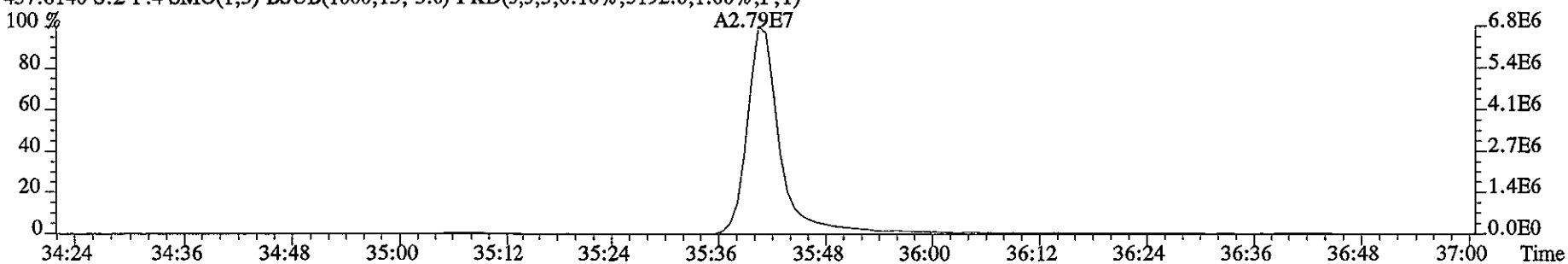
425.7737 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4740.0,1.00%,F,T)



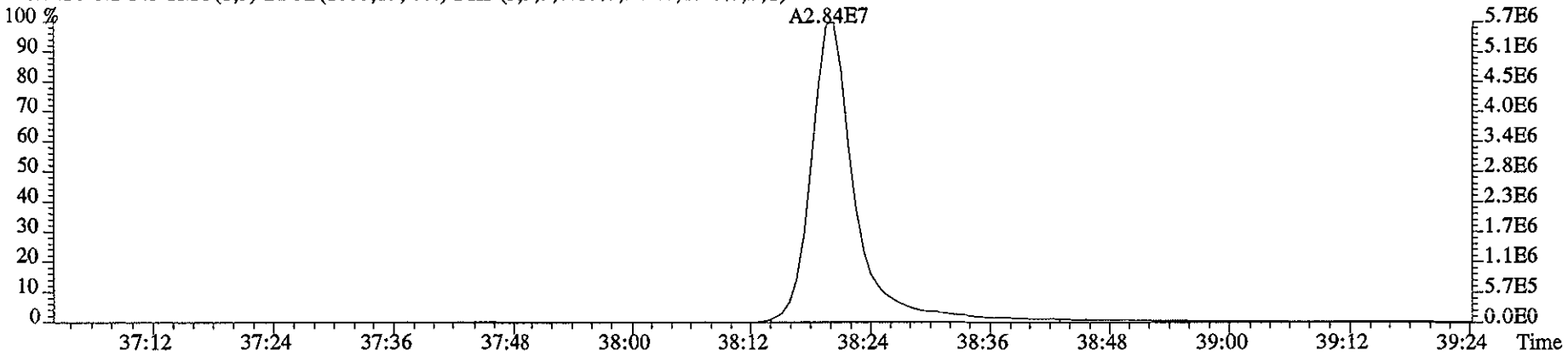
435.8169 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7776.0,1.00%,F,T)



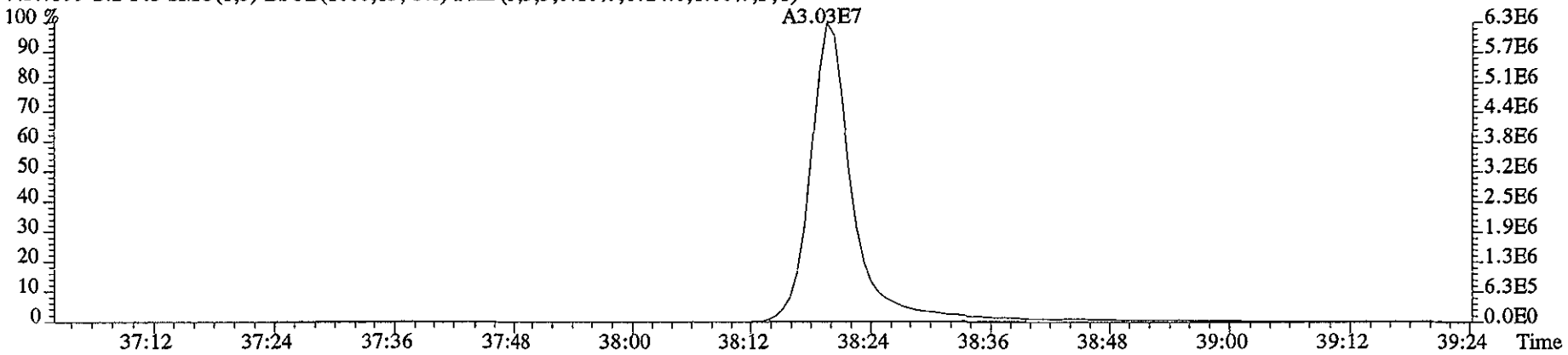
437.8140 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5192.0,1.00%,F,T)



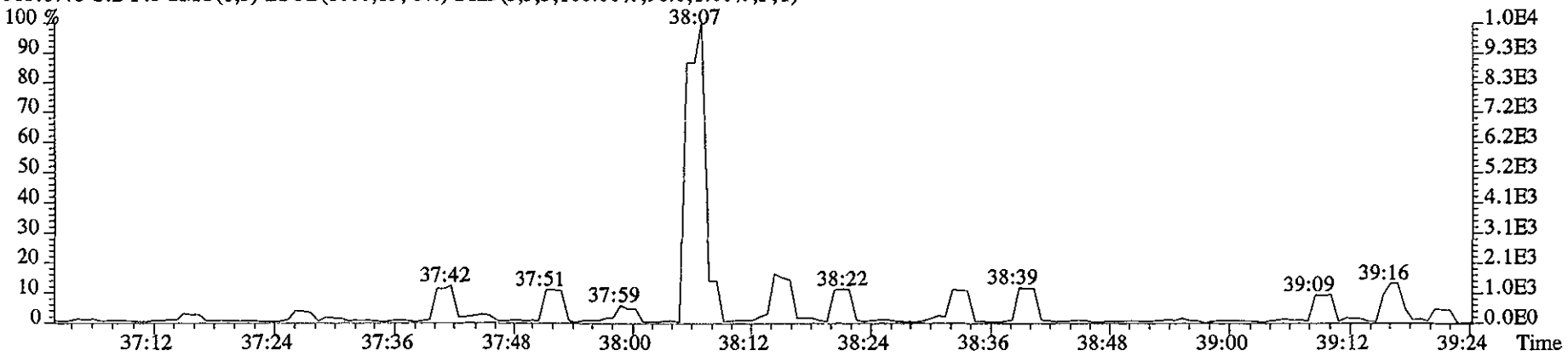
File:07DE104D5 #1-192 Acq: 7-DEC-2010 11:24:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1207 :CS3 10DXN461 Exp:DIOXINRES
441.7428 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,944.0,1.00%,F,T)



443.7399 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6724.0,1.00%,F,T)

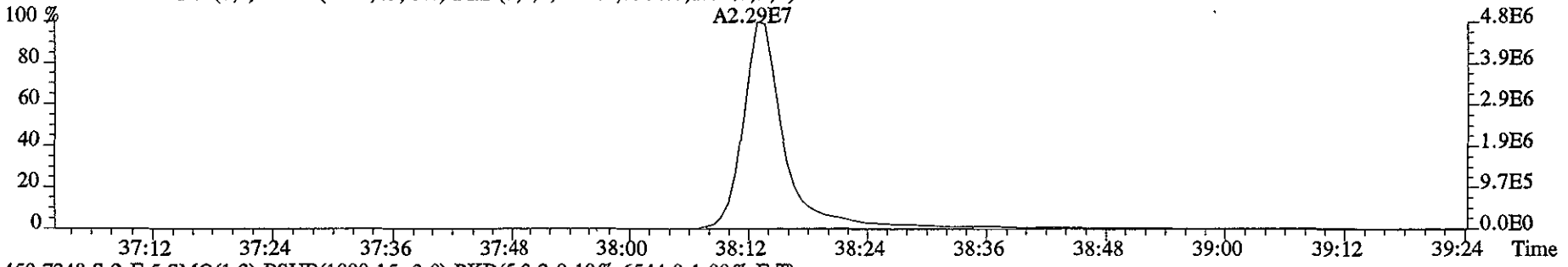


513.6775 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,96.0,1.00%,F,T)

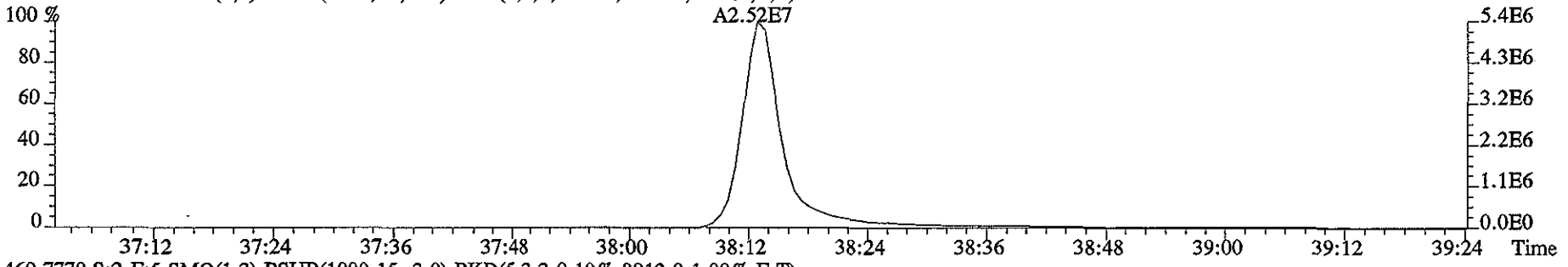


File:07DE104D5 #1-192 Acq: 7-DEC-2010 11:24:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1207 :CS3 10DXN461 Exp:DIOXINRES

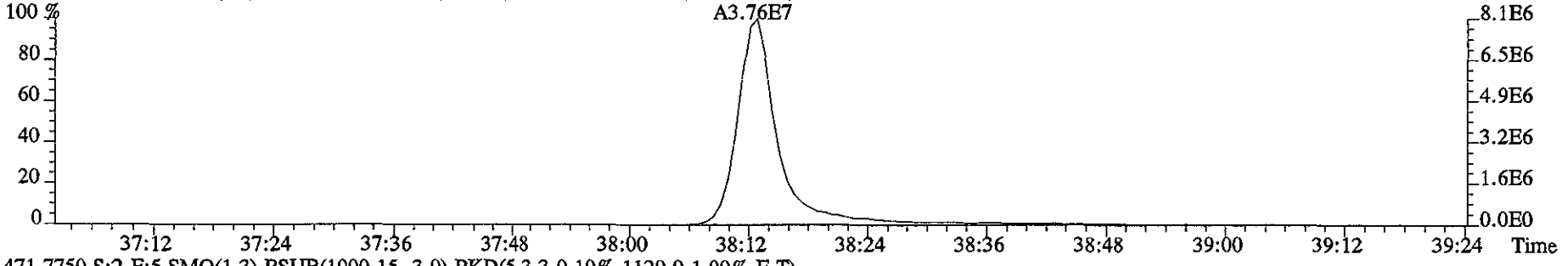
457.7377 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7504.0,1.00%,F,T)



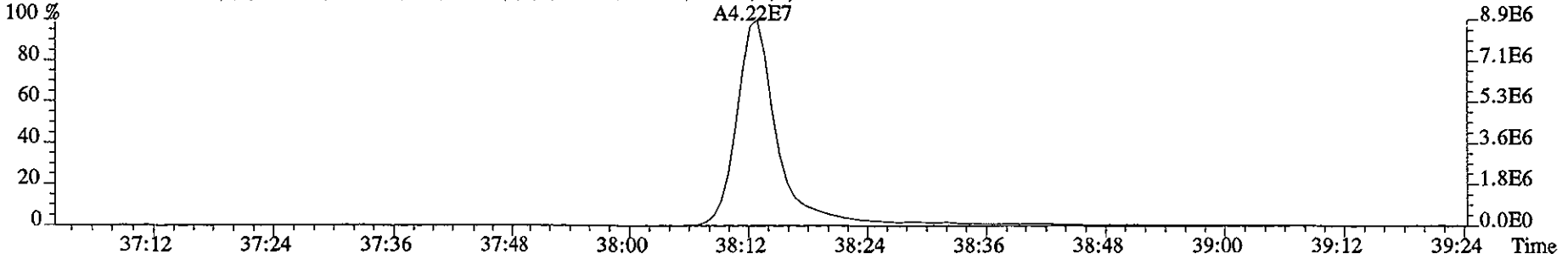
459.7348 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6544.0,1.00%,F,T)



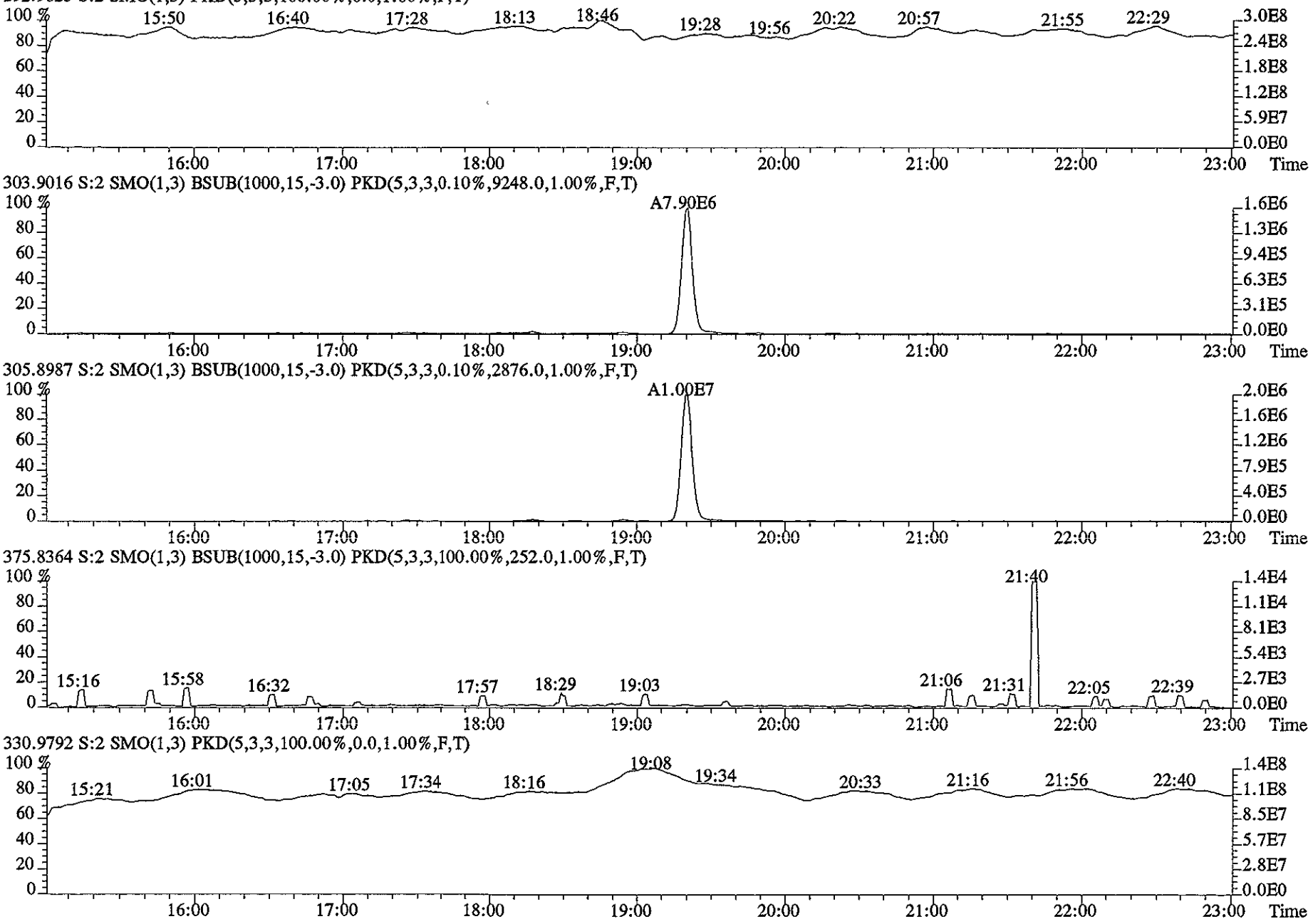
469.7779 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8912.0,1.00%,F,T)



471.7750 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1120.0,1.00%,F,T)

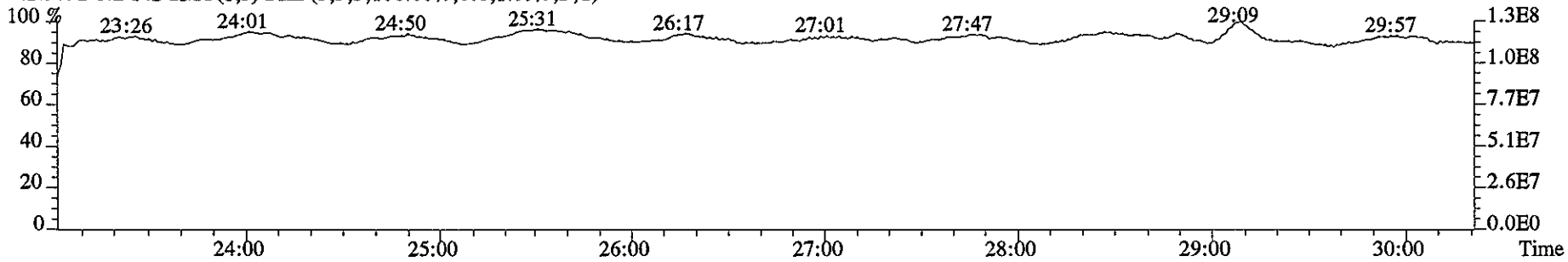


File:07DE104D5 #1-530 Acq: 7-DEC-2010 11:24:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1207 :CS3 10DXN461 Exp:DIOXINRES

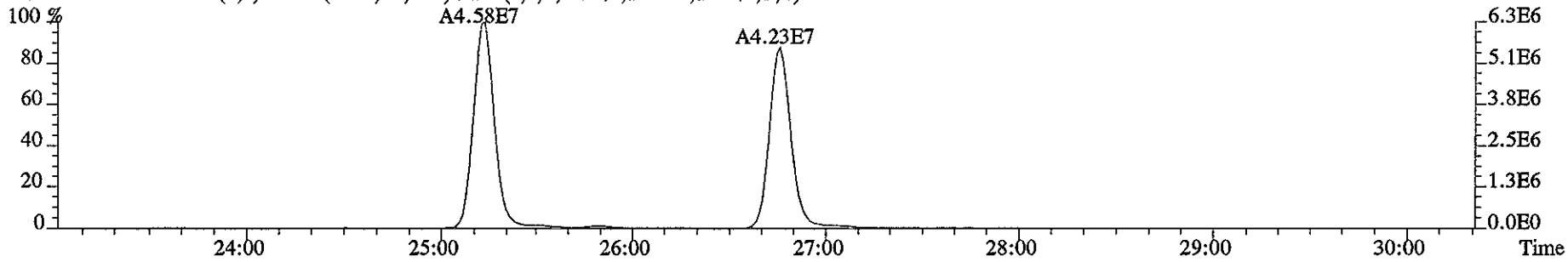


File:07DE104D5 #1-470 Acq: 7-DEC-2010 11:24:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1207 :CS3 10DXN461 Exp:DIOXINRES

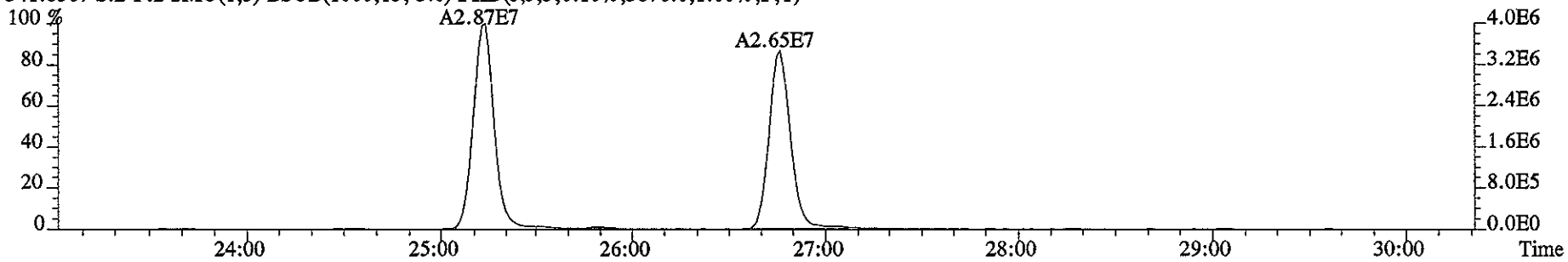
342.9792 S:2 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



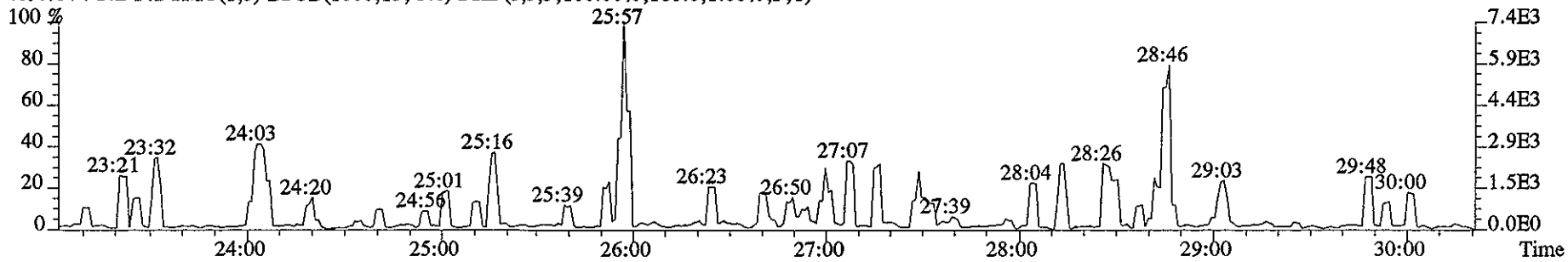
339.8597 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1844.0,1.00%,F,T)



341.8567 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3876.0,1.00%,F,T)

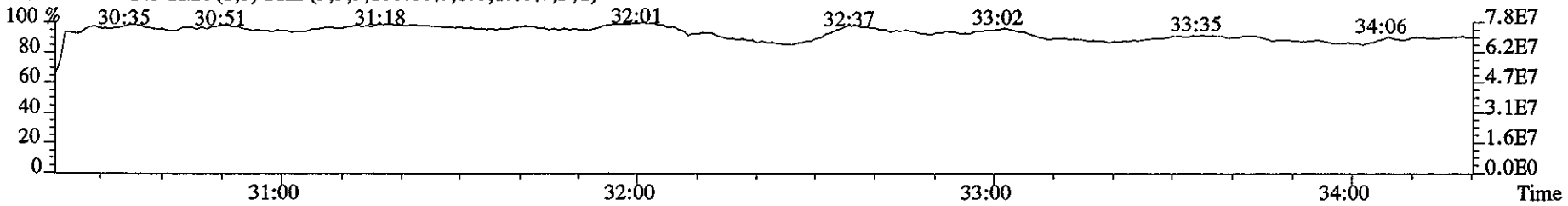


409.7974 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,168.0,1.00%,F,T)

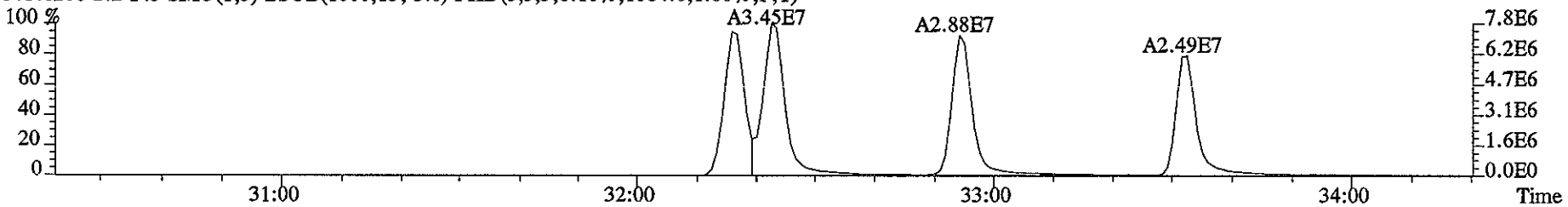


File:07DE104D5 #1-286 Acq: 7-DEC-2010 11:24:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1207 :CS3 10DXN461 Exp:DIOXINRES

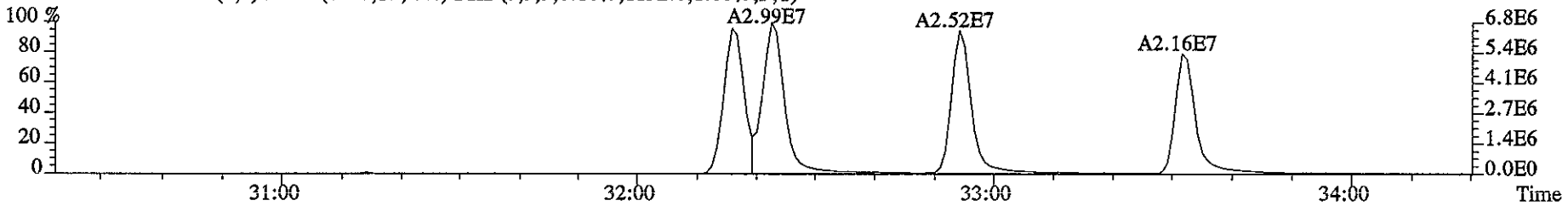
392.9760 S:2 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



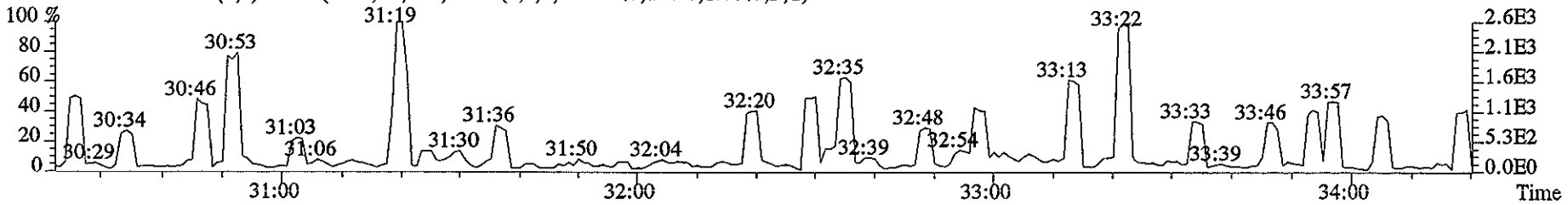
373.8208 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1064.0,1.00%,F,T)



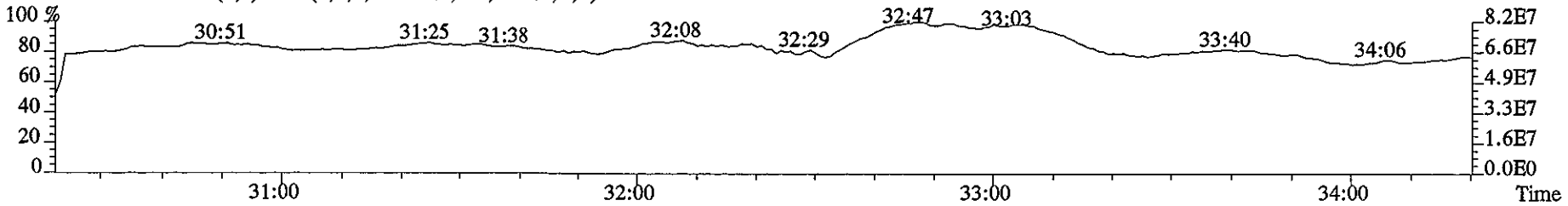
375.8178 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1132.0,1.00%,F,T)



445.7555 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,160.0,1.00%,F,T)

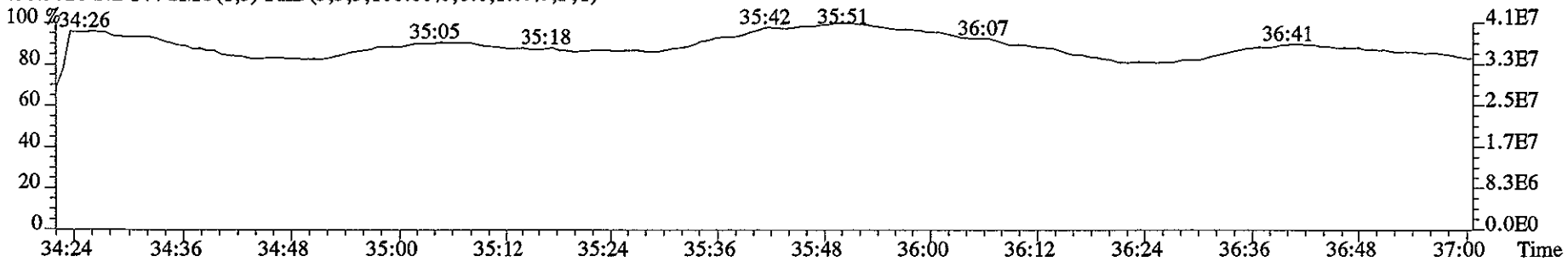


380.9760 S:2 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

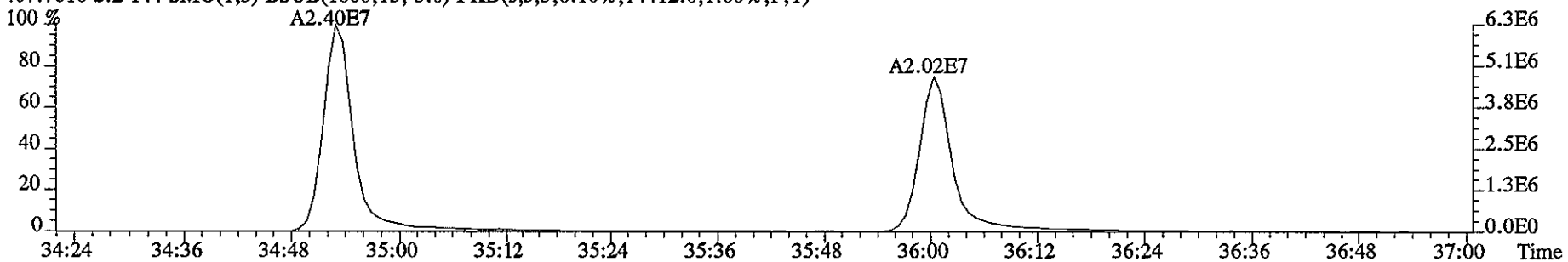


File:07DE104D5 #1-201 Acq: 7-DEC-2010 11:24:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1207 :CS3 10DXN461 Exp:DIOXINRES

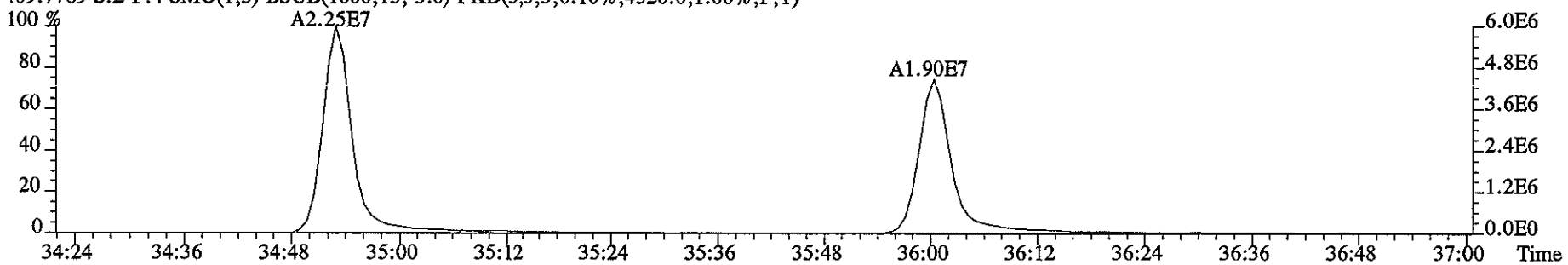
430.9728 S:2 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



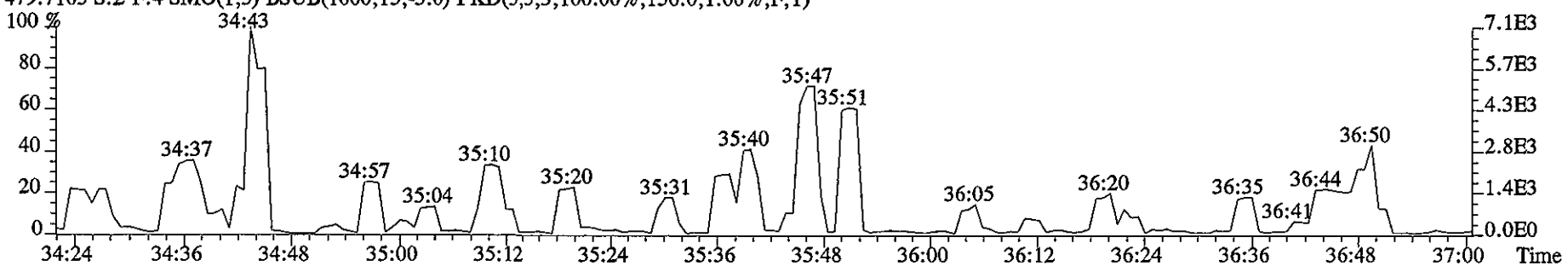
407.7818 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14412.0,1.00%,F,T)



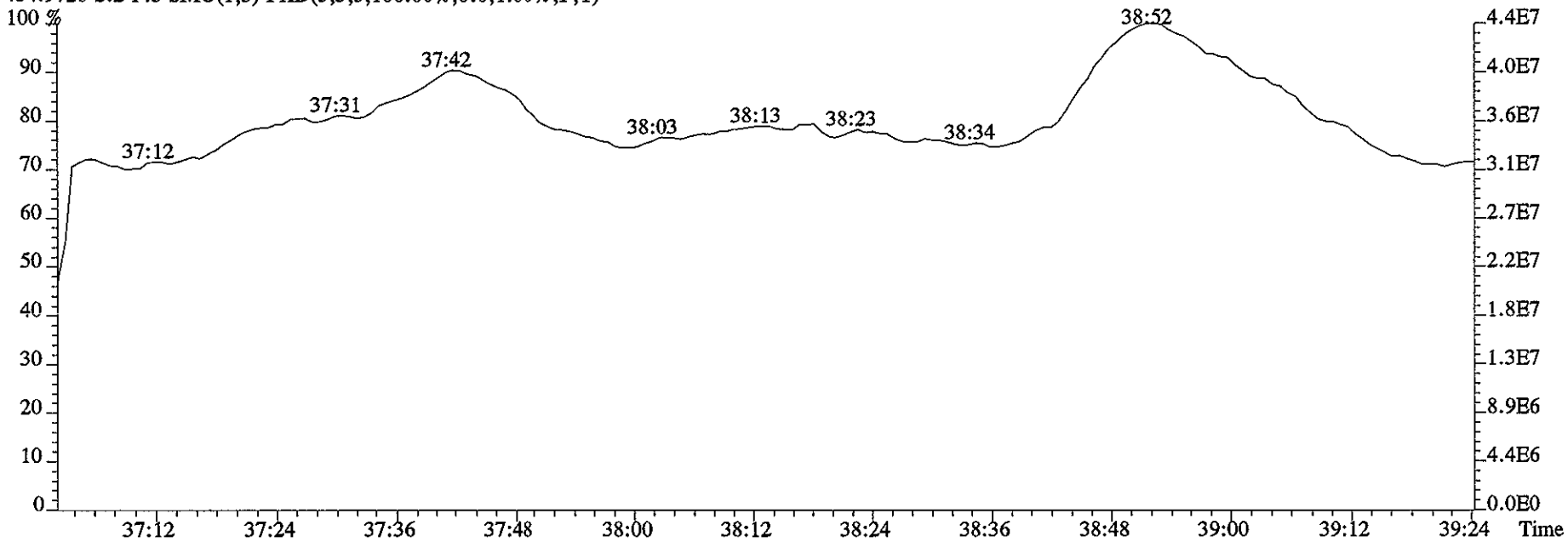
409.7789 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4520.0,1.00%,F,T)



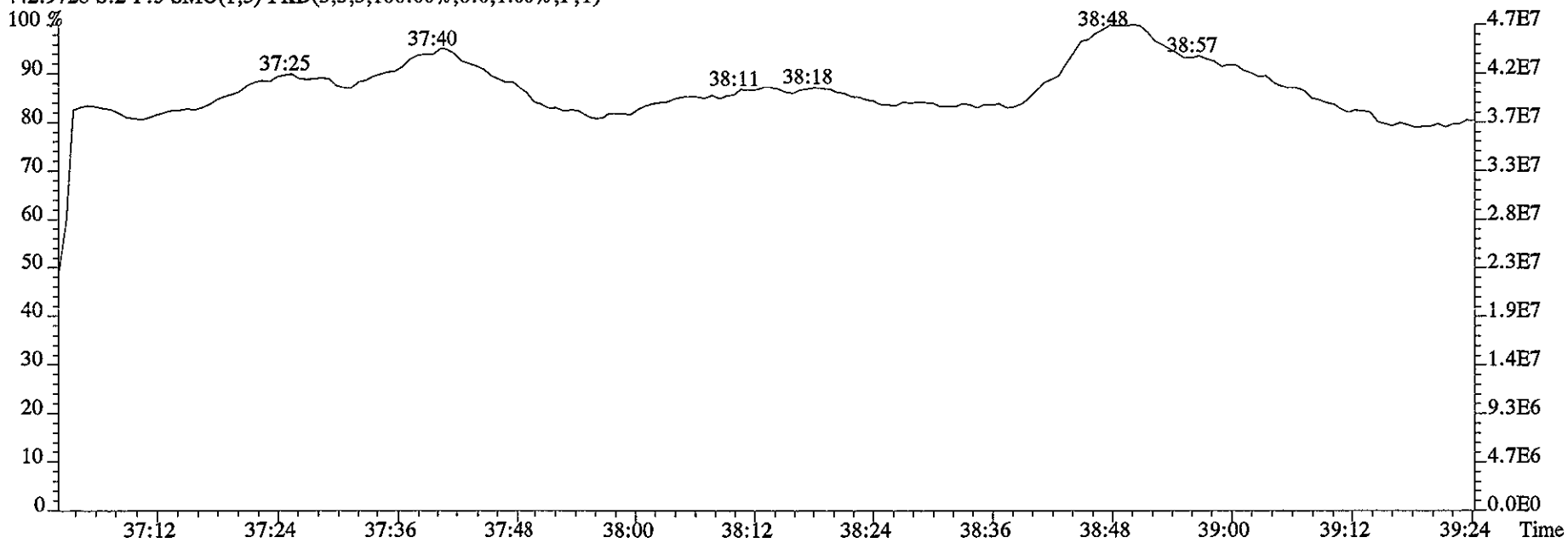
479.7165 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,156.0,1.00%,F,T)



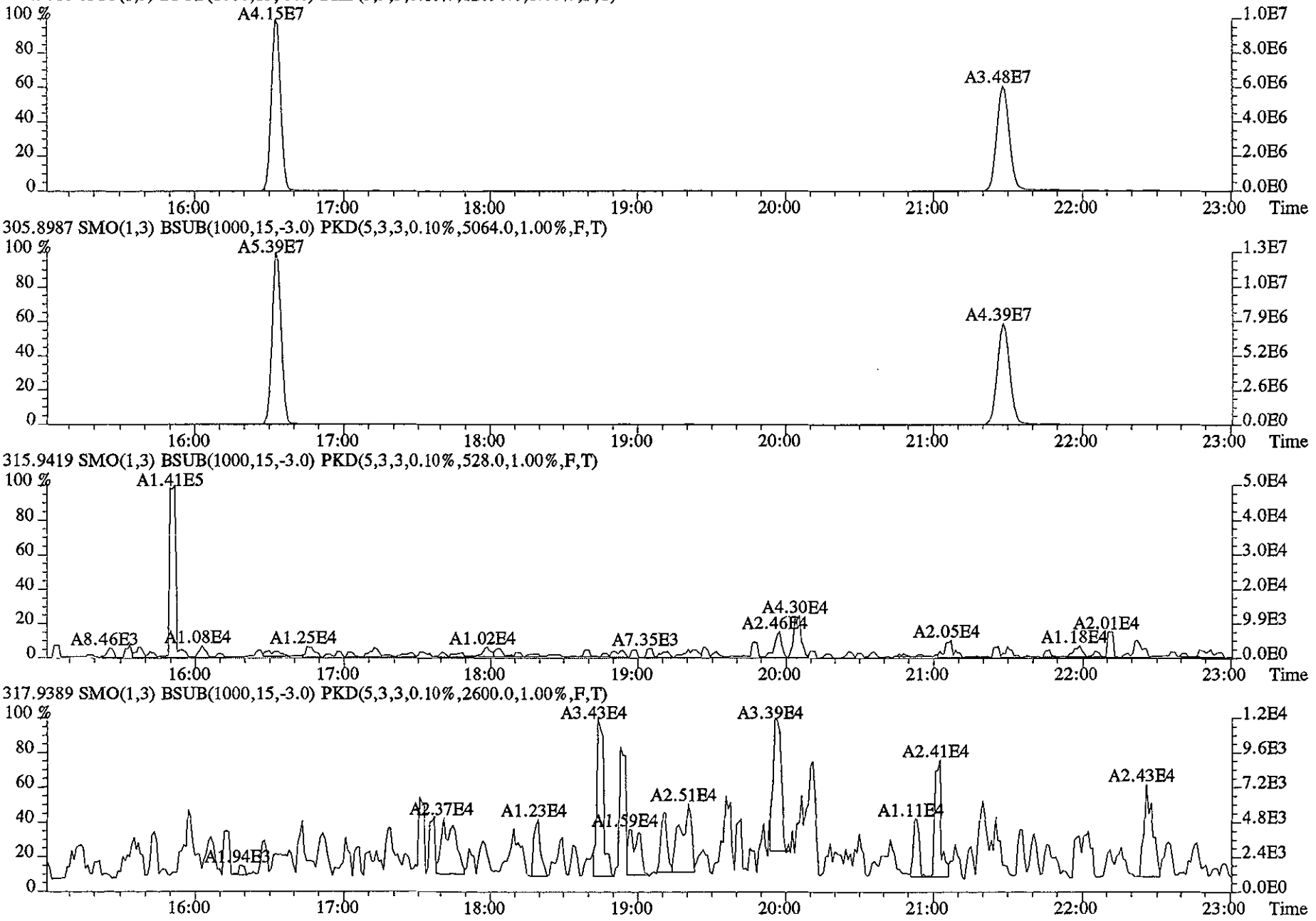
File:07DE104D5 #1-192 Acq: 7-DEC-2010 11:24:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1207 :CS3 10DXN461 Exp:DIOXINRES
454.9728 S:2 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



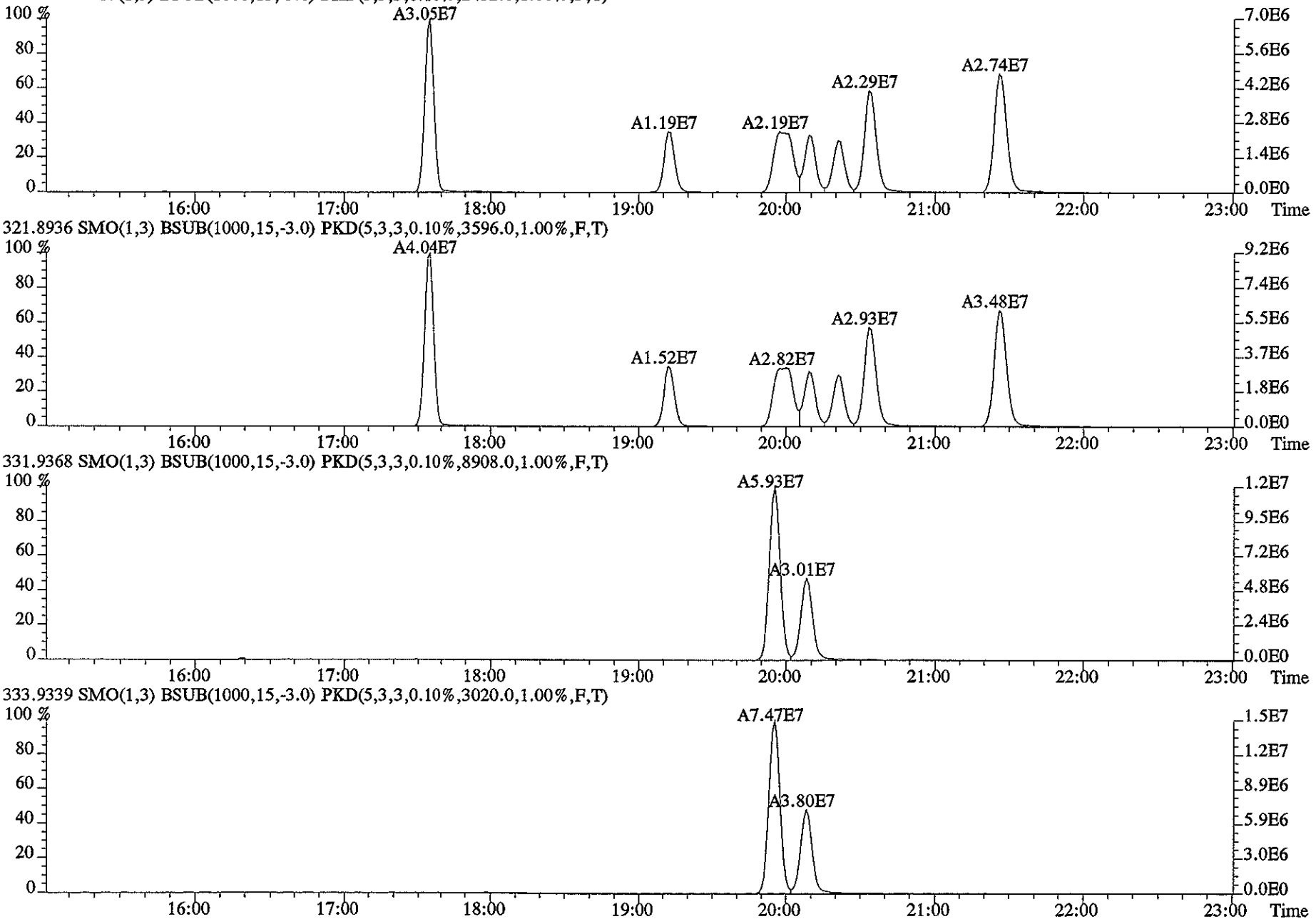
442.9728 S:2 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



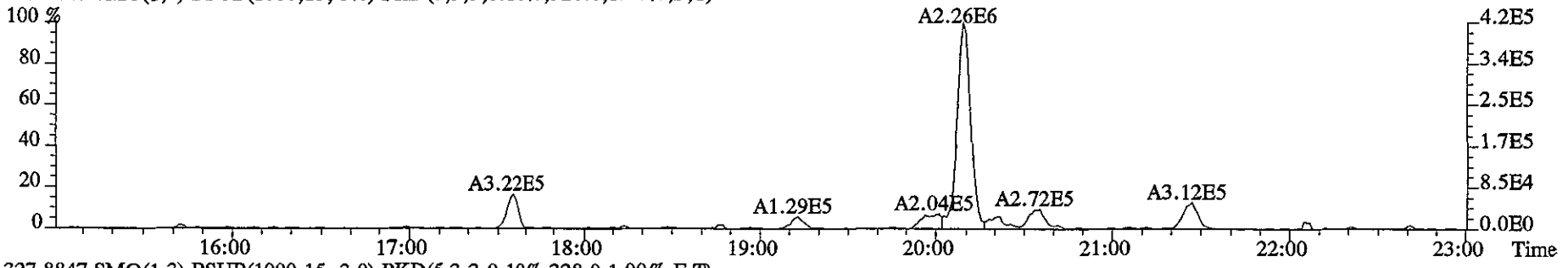
File:07DE104D5 #1-530 Acq: 7-DEC-2010 10:40:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1207 :DB-5 CPSM 10LRES076 Exp:DIOXINRES



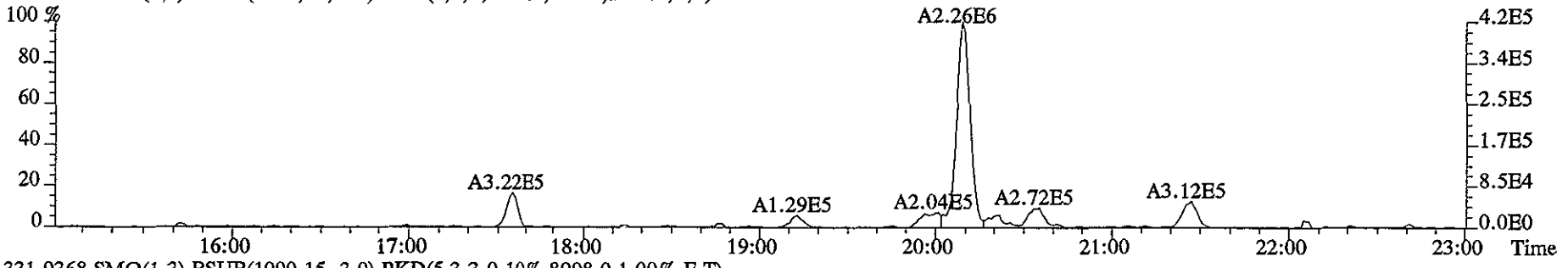
File:07DE104D5 #1-530 Acq: 7-DEC-2010 10:40:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1207 :DB-5 CPSM 10LRES076 Exp:DIOXINRES



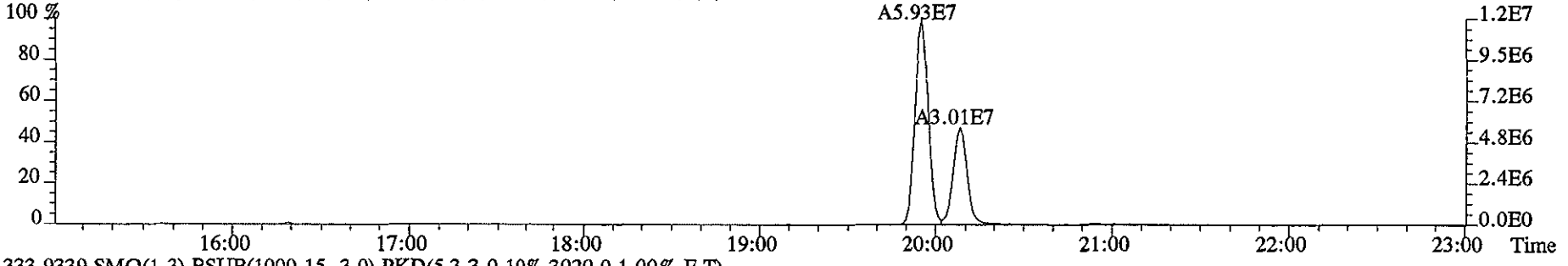
File:07DE104D5 #1-530 Acq: 7-DEC-2010 10:40:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1207 :DB-5 CPSM 10LRES076 Exp:DIOXINRES
327.8847 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,328.0,1.00%,F,T)



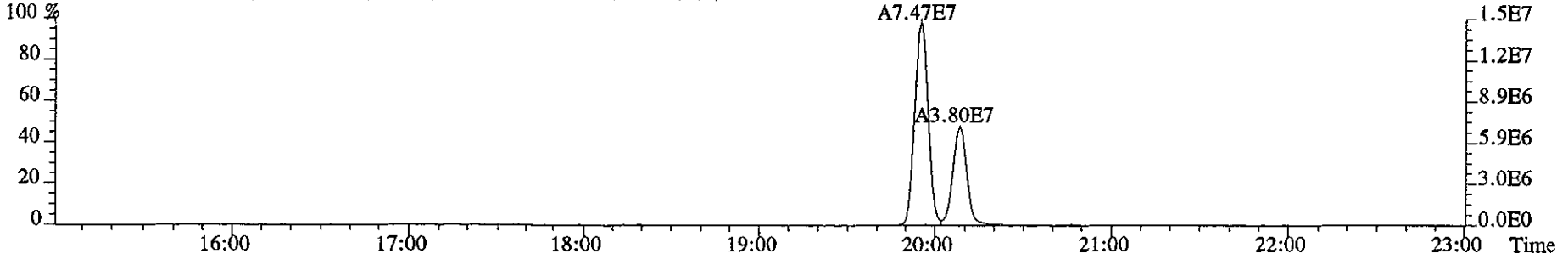
327.8847 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,328.0,1.00%,F,T)



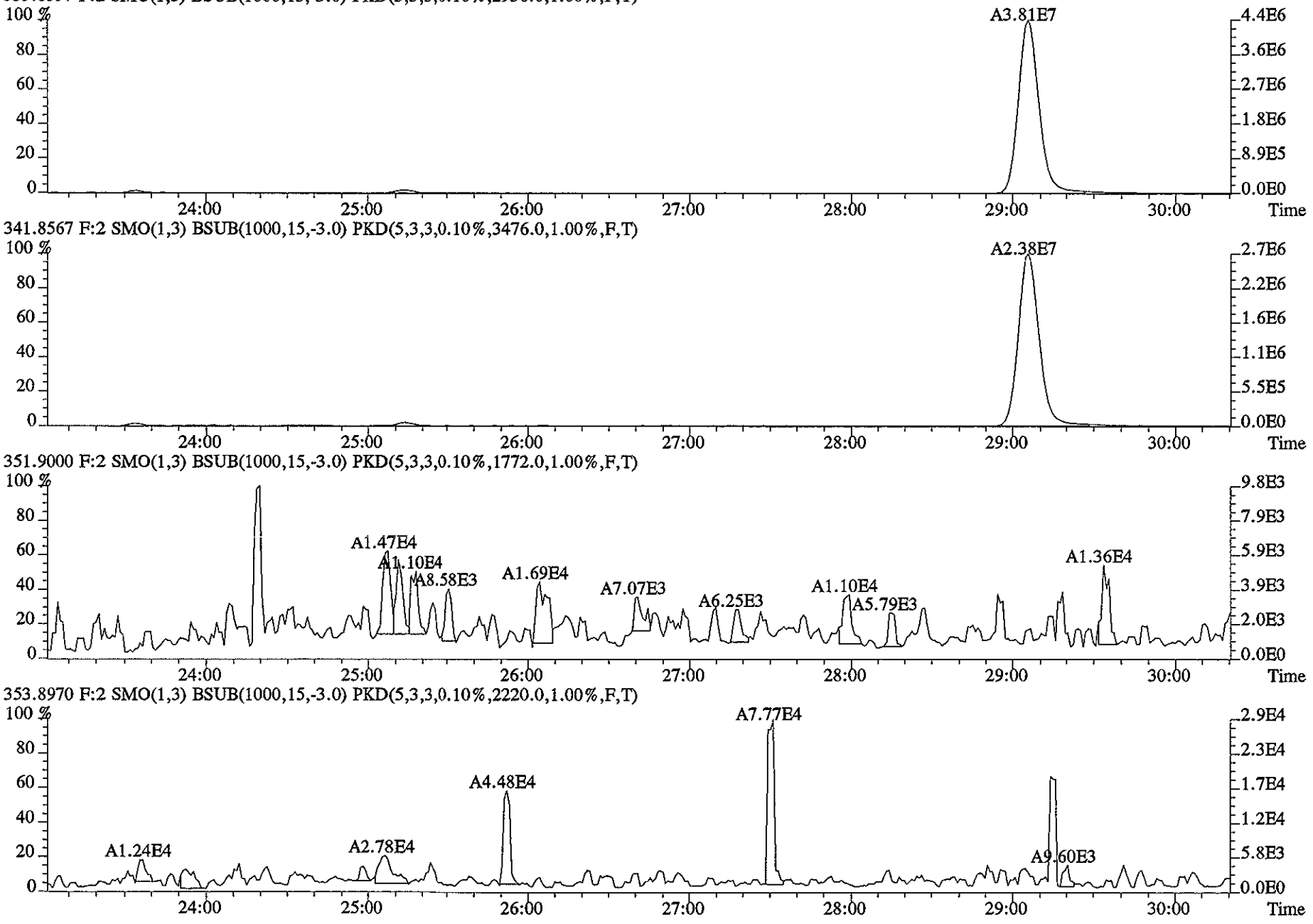
331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8908.0,1.00%,F,T)



333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3020.0,1.00%,F,T)

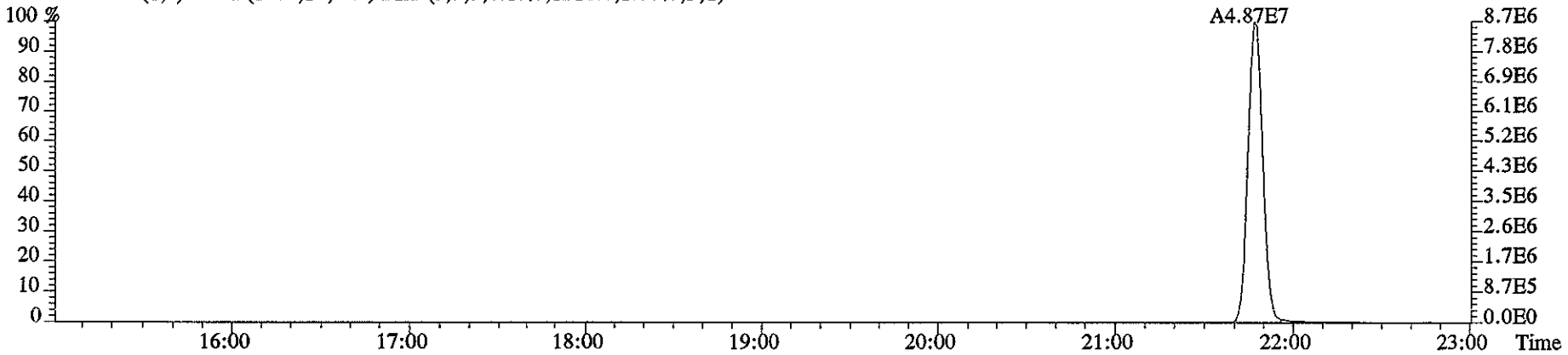


File:07DE104D5 #1-470 Acq: 7-DEC-2010 10:40:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1207 :DB-5 CPSM 10LRES076 Exp:DIOXINRES

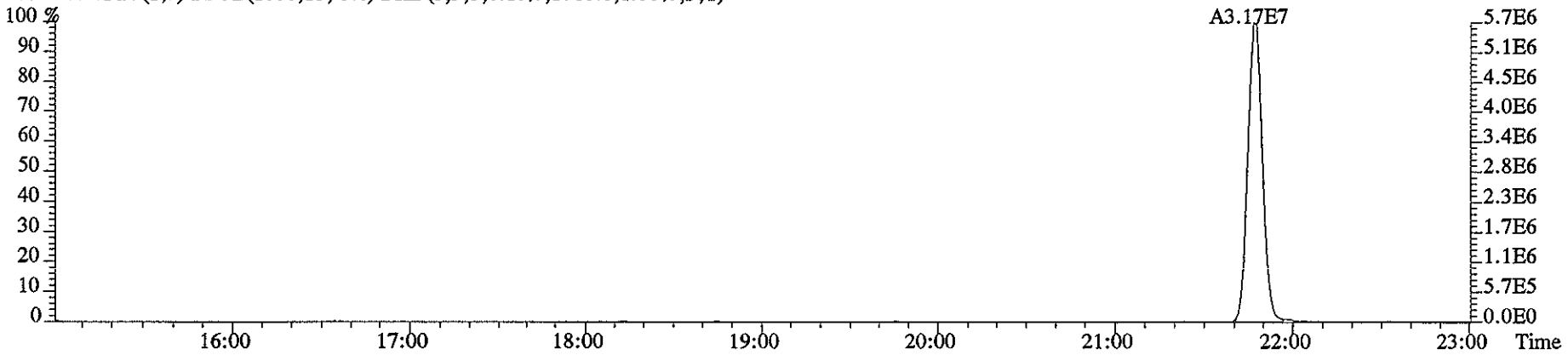


File:07DE104D5 #1-530 Acq: 7-DEC-2010 10:40:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1207 :DB-5 CPSM 10LRES076 Exp:DIOXINRES

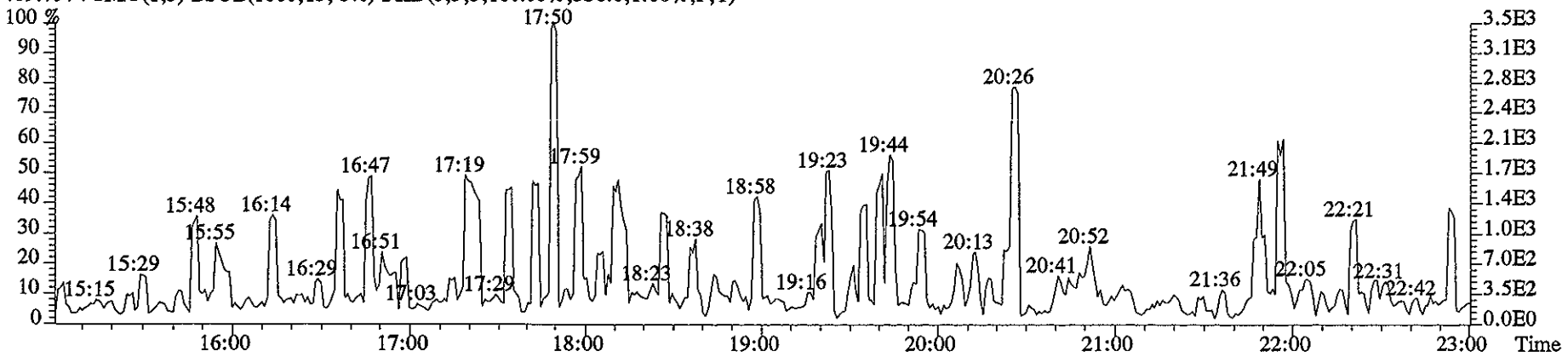
339.8597 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1212.0,1.00%,F,T)



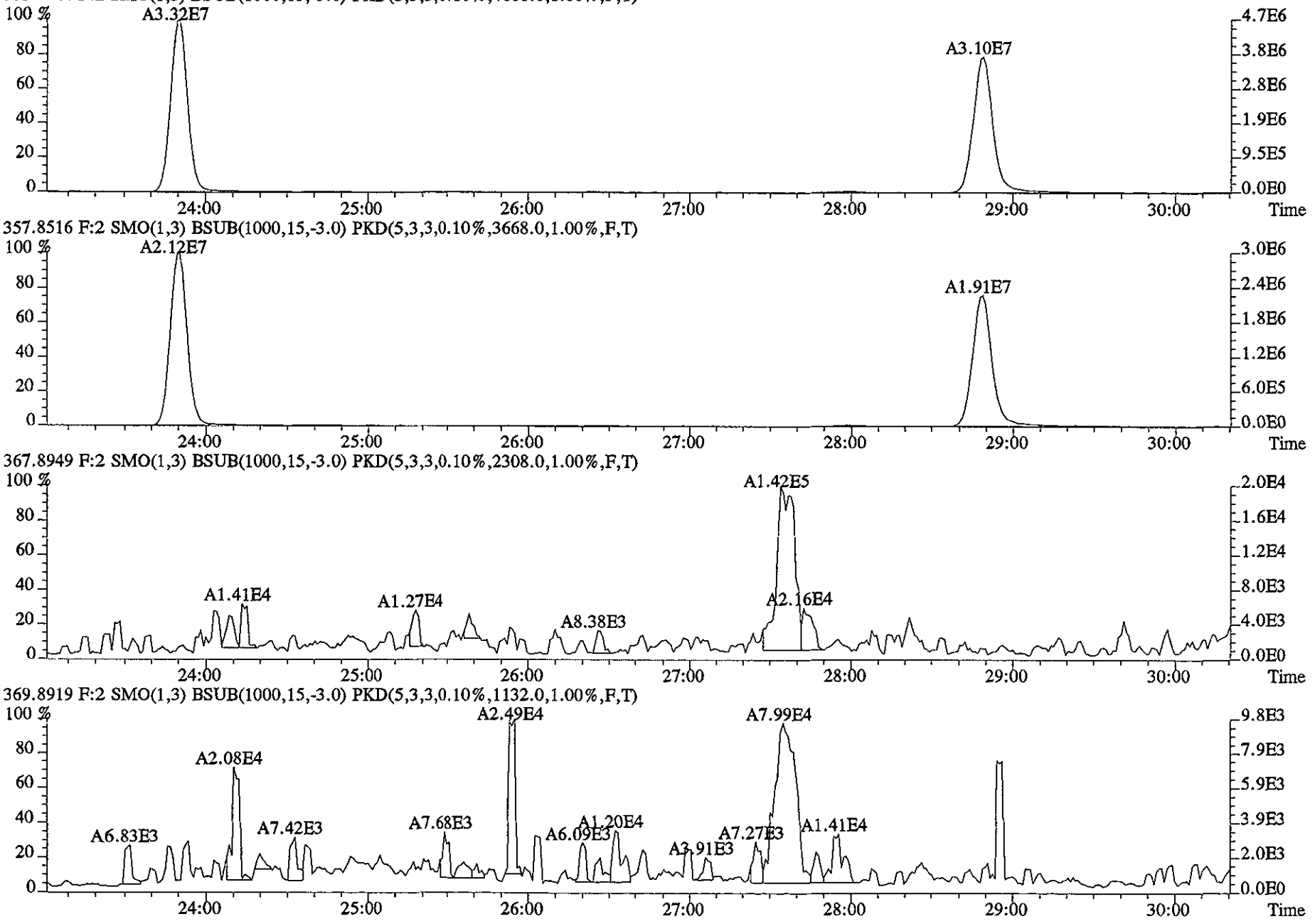
341.8567 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1760.0,1.00%,F,T)



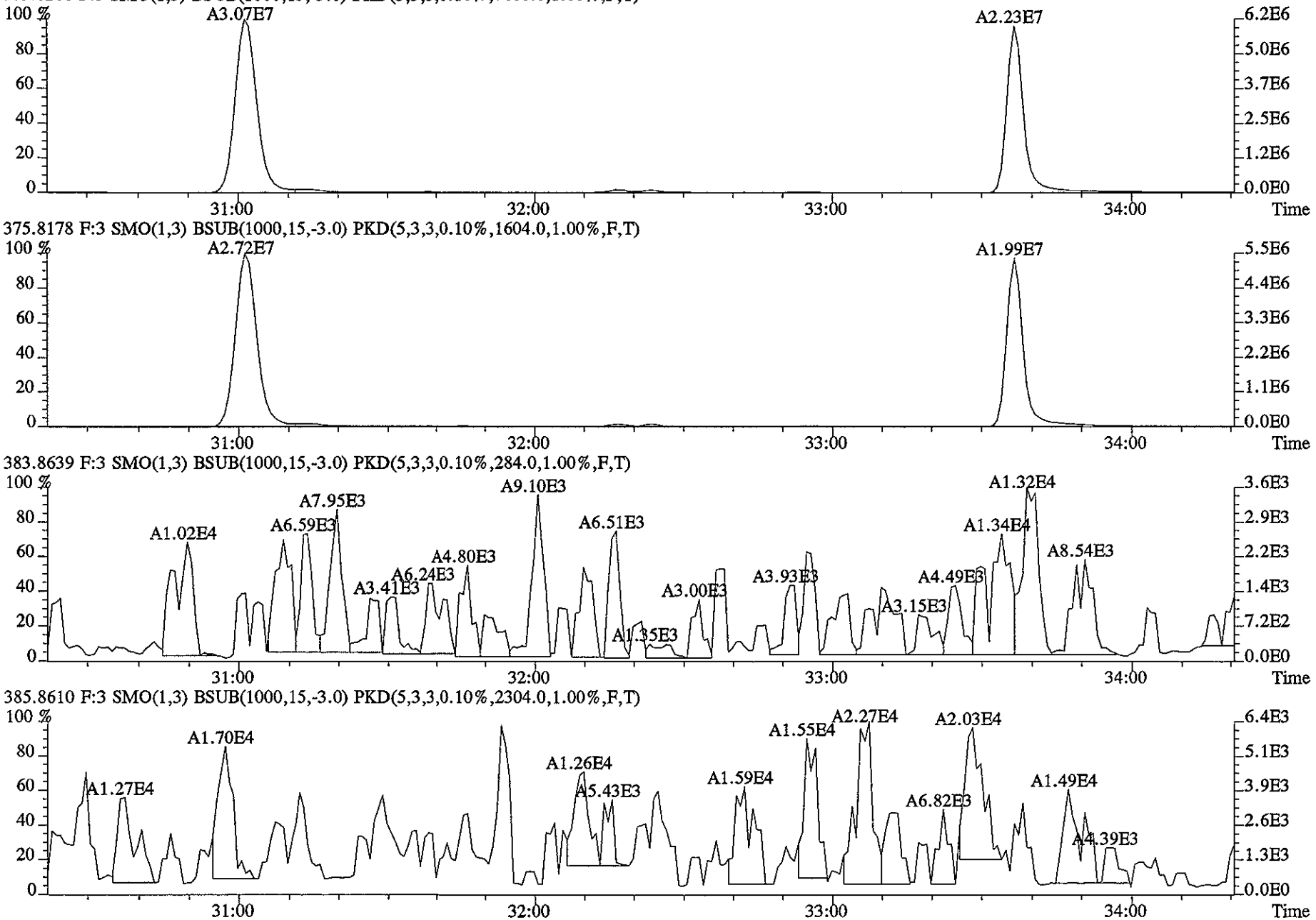
409.7974 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,336.0,1.00%,F,T)



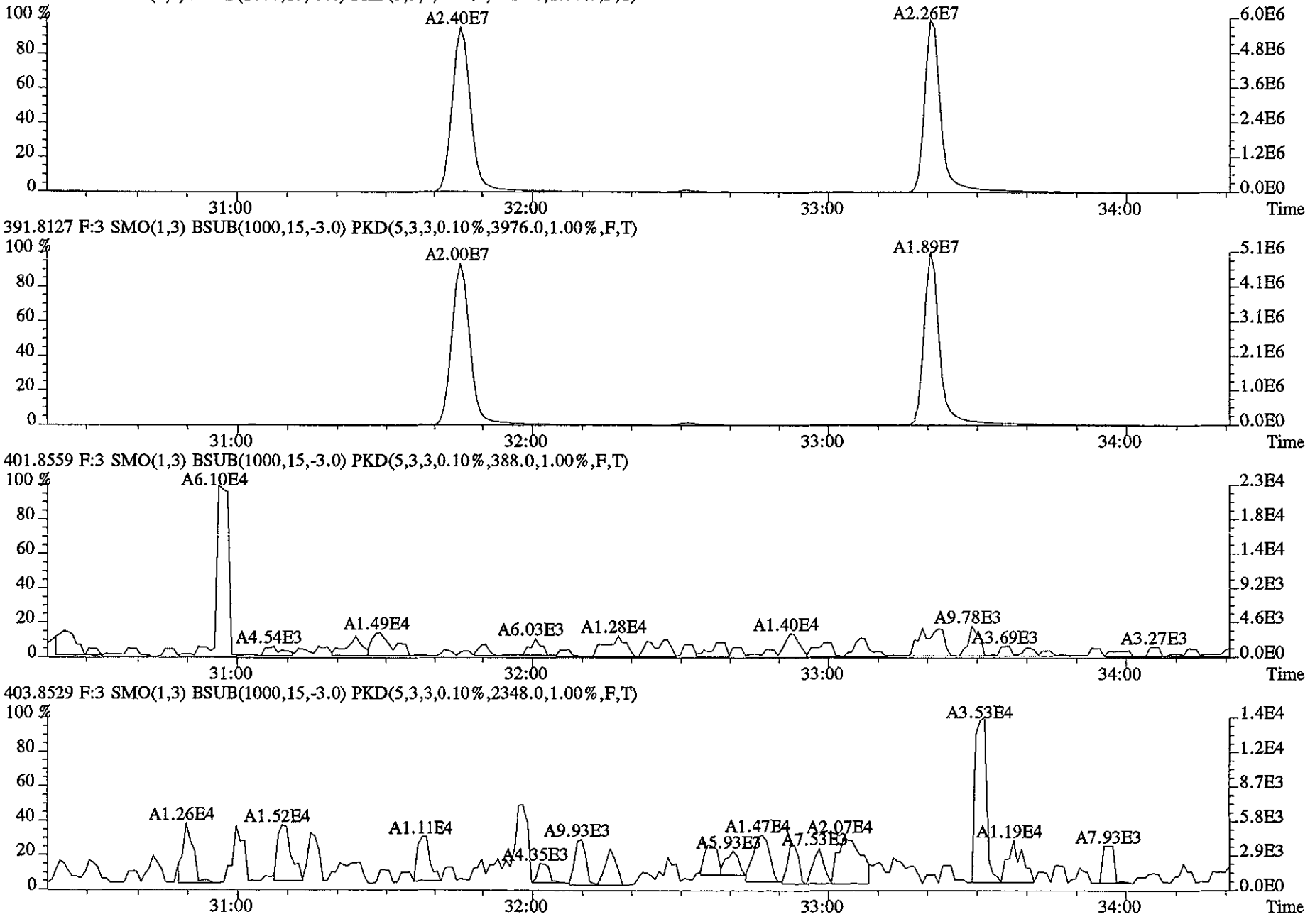
File:07DE104D5 #1-470 Acq: 7-DEC-2010 10:40:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1207 :DB-5 CPSM 10LRES076 Exp:DIOXINRES



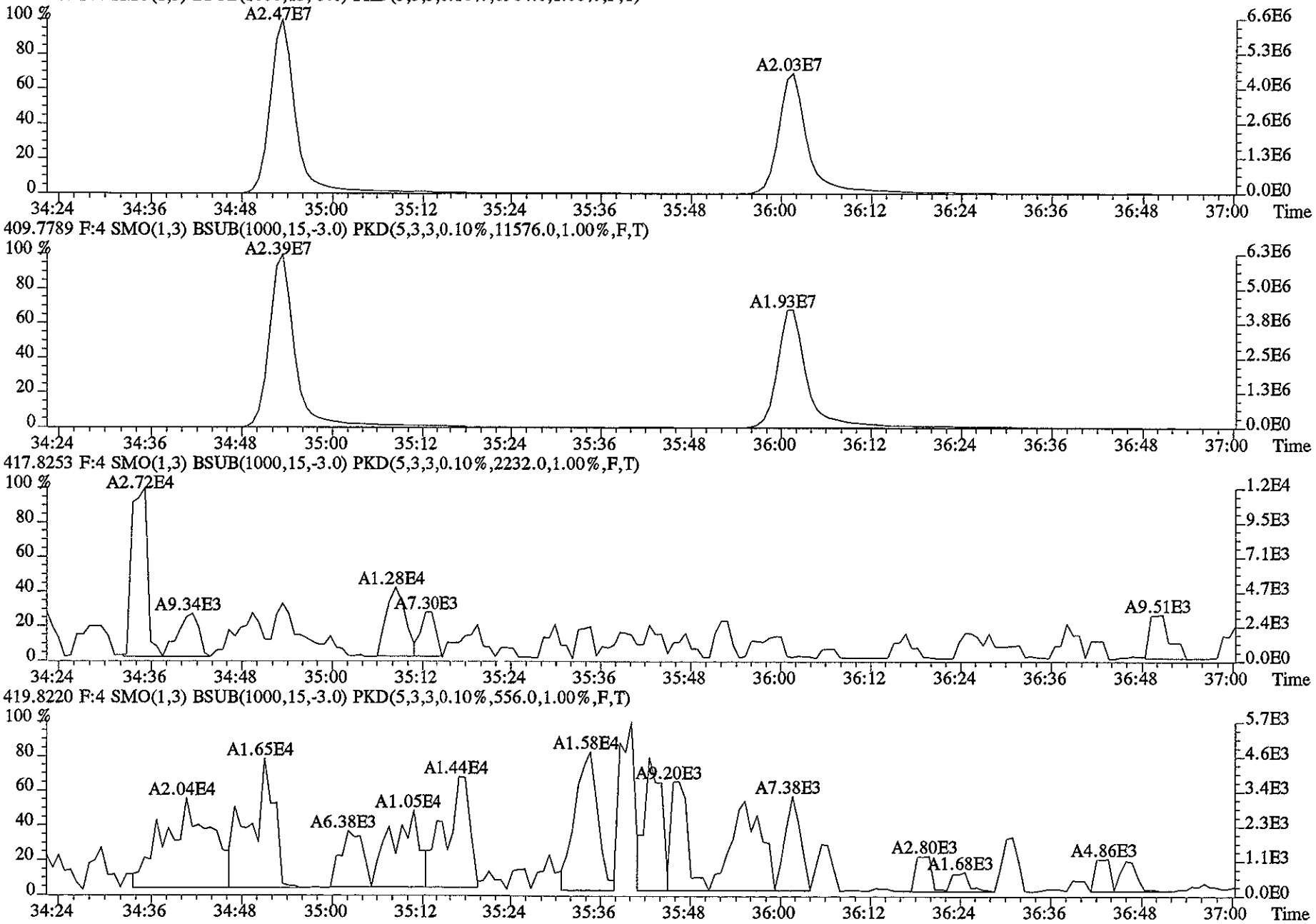
File:07DE104D5 #1-287 Acq: 7-DEC-2010 10:40:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1207 :DB-5 CPSM 10LRES076 Exp:DIOXINRES



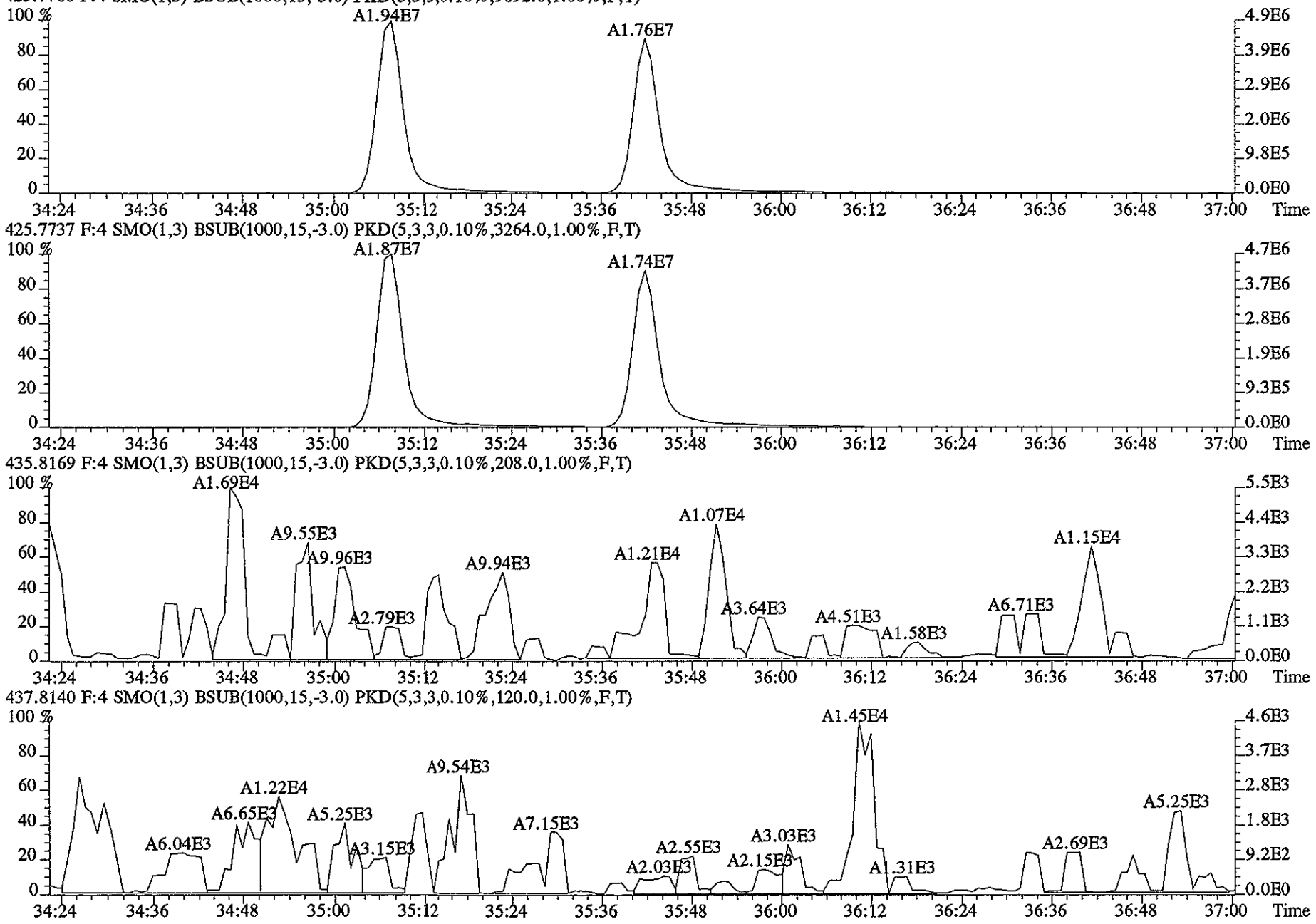
File:07DE104D5 #1-287 Acq: 7-DEC-2010 10:40:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1207 :DB-5 CPSM 10LRES076 Exp:DIOXINRES



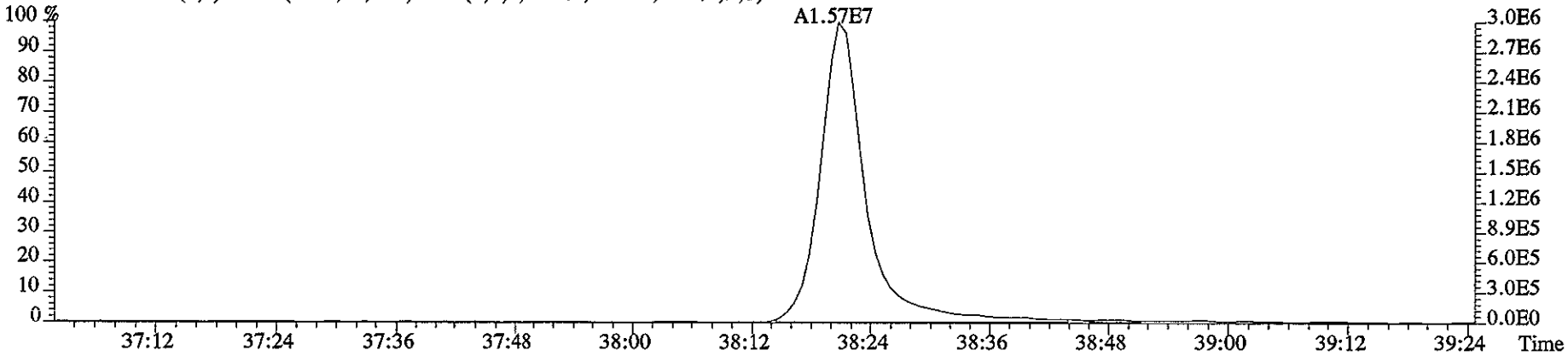
File:07DE104D5 #1-200 Acq: 7-DEC-2010 10:40:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1207 :DB-5 CPSM 10LRES076 Exp:DIOXINRES



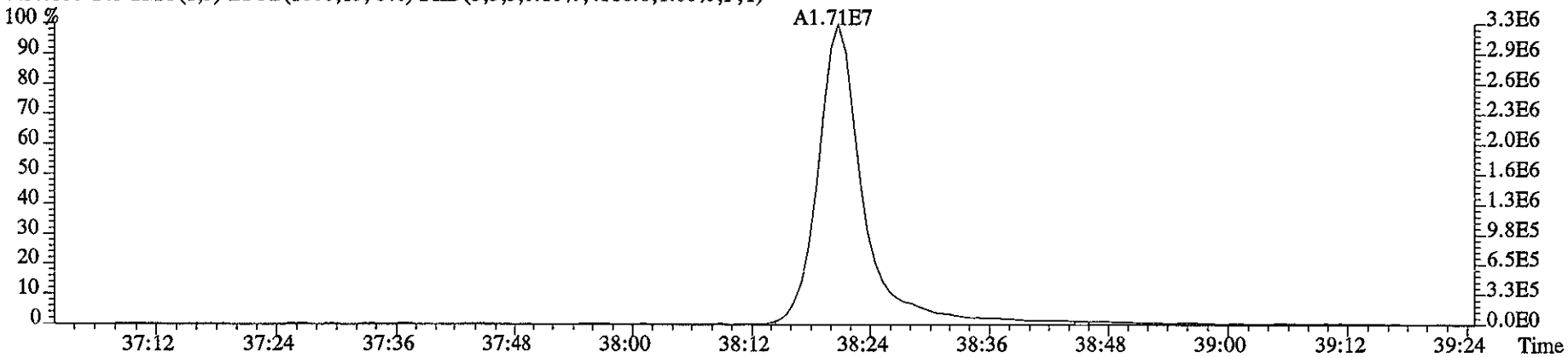
File:07DE104D5 #1-200 Acq: 7-DEC-2010 10:40:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1207 :DB-5 CPSM 10LRES076 Exp:DIOXINRES



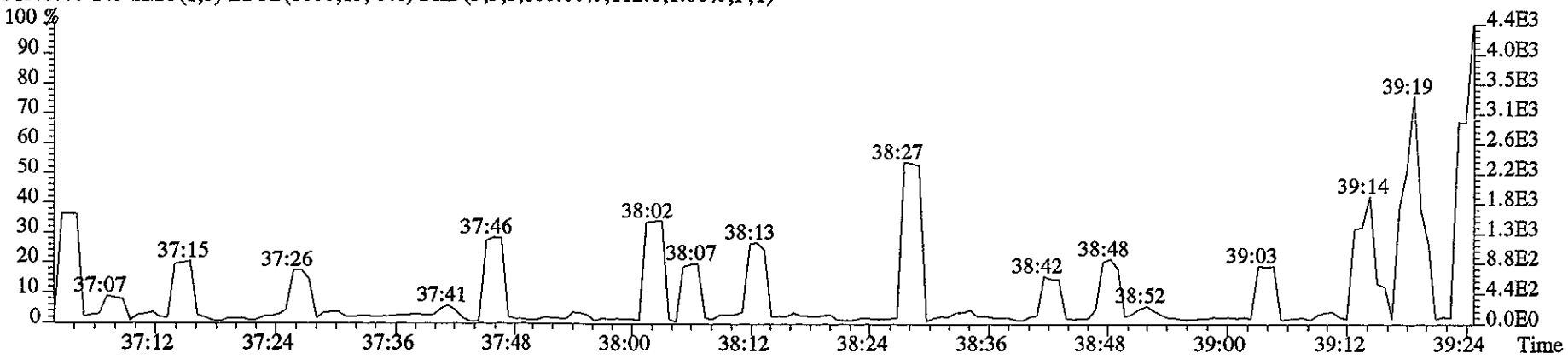
File:07DE104D5 #1-193 Acq: 7-DEC-2010 10:40:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1207 :DB-5 CPSM 10LRES076 Exp:DIOXINRES
441.7428 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4112.0,1.00%,F,T)



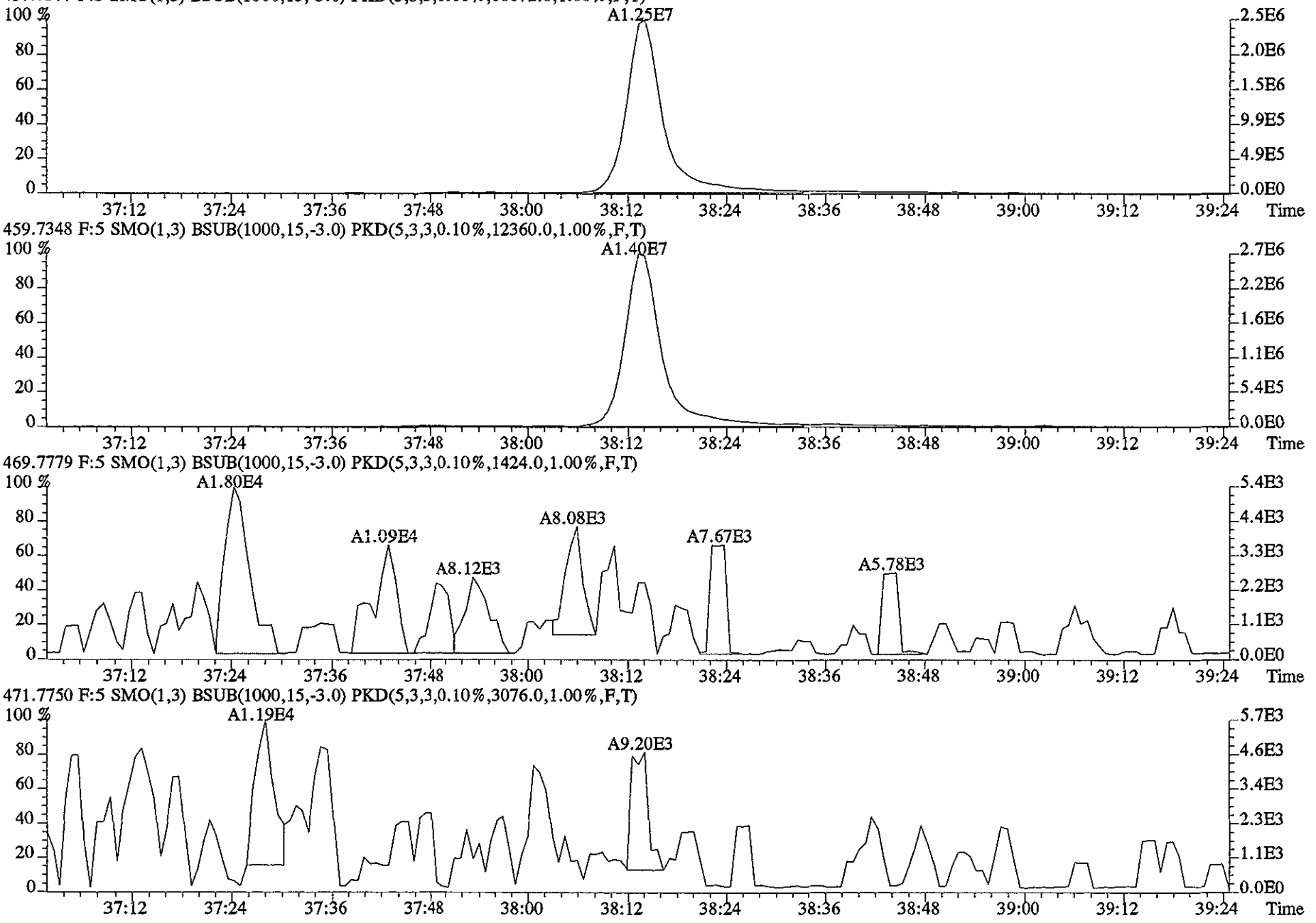
443.7399 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4116.0,1.00%,F,T)



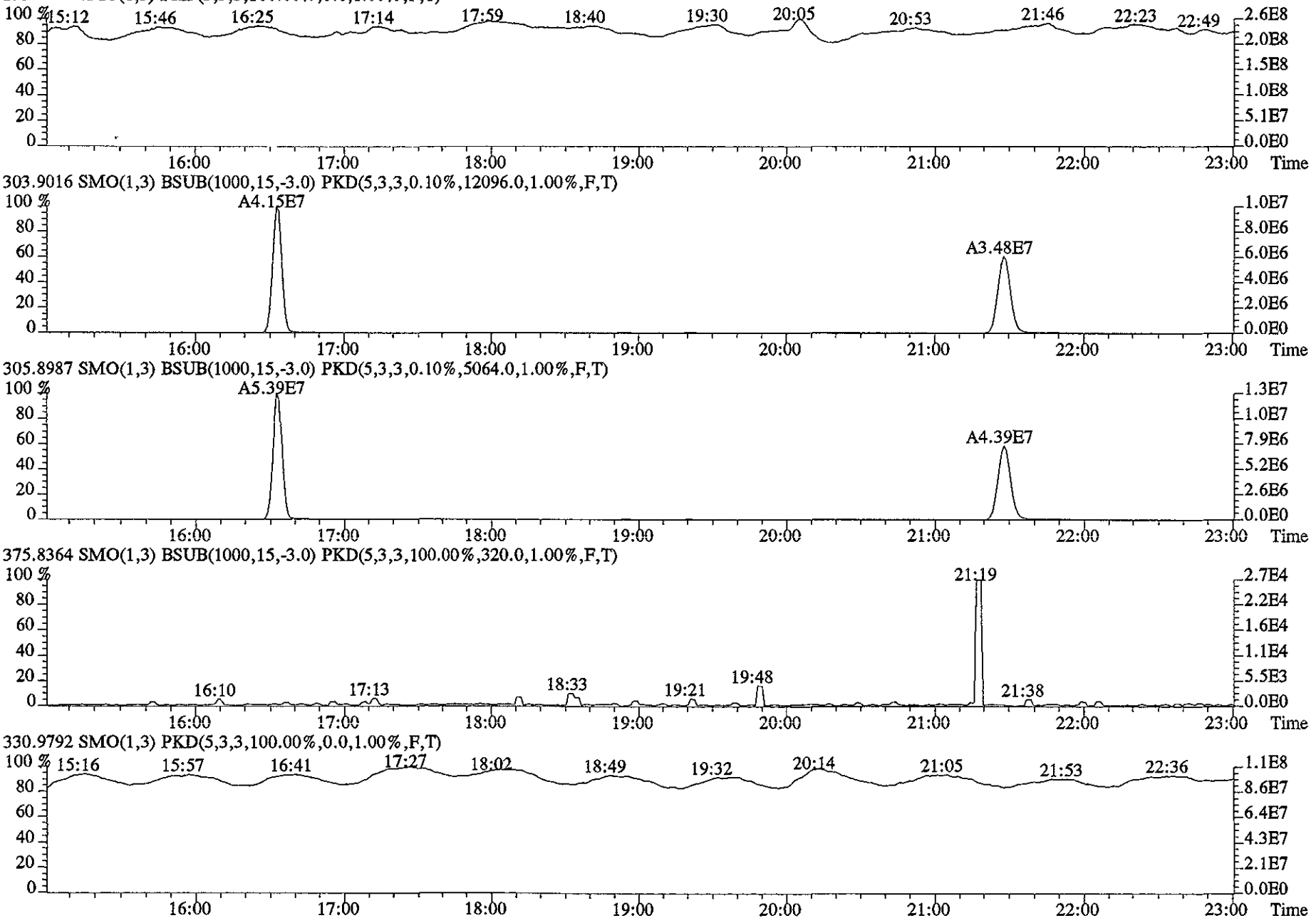
513.6775 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,112.0,1.00%,F,T)



File:07DE104D5 #1-193 Acq: 7-DEC-2010 10:40:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1207 :DB-5 CPSM 10LRES076 Exp:DIOXINRES

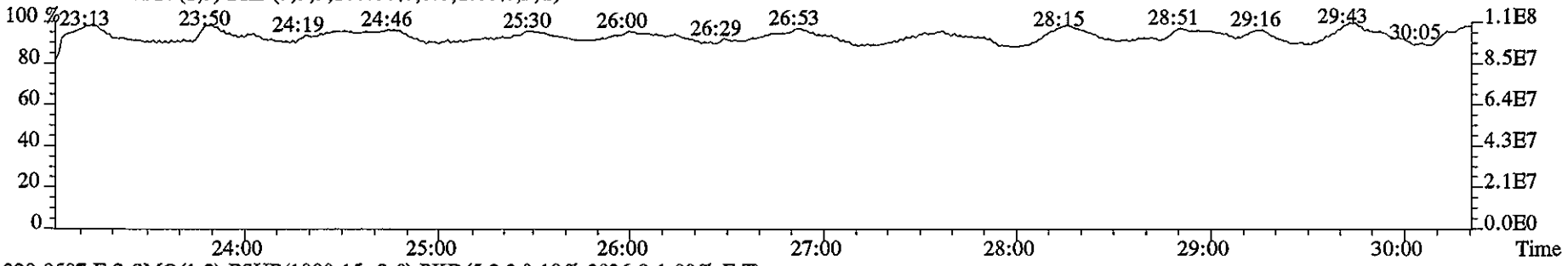


File:07DE104D5 #1-530 Acq: 7-DEC-2010 10:40:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1207 :DB-5 CPSM 10LRES076 Exp:DIOXINRES

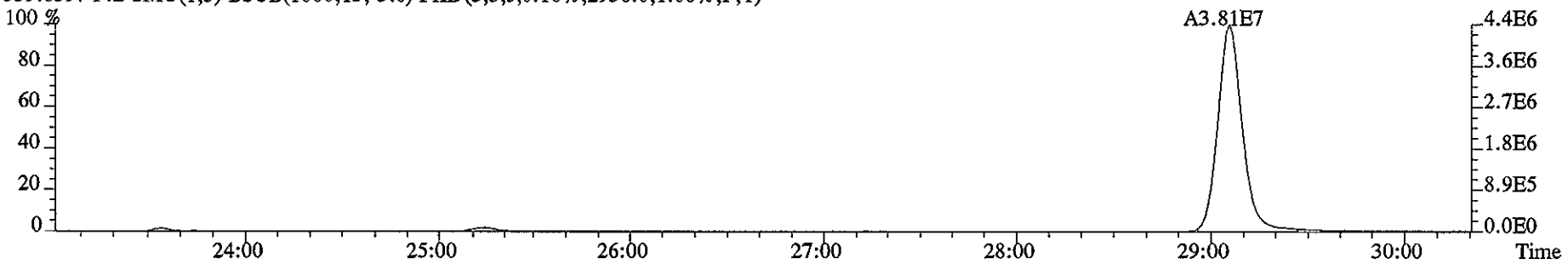


File:07DE104D5 #1-470 Acq: 7-DEC-2010 10:40:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1207 :DB-5 CPSM 10LRES076 Exp:DIOXINRES

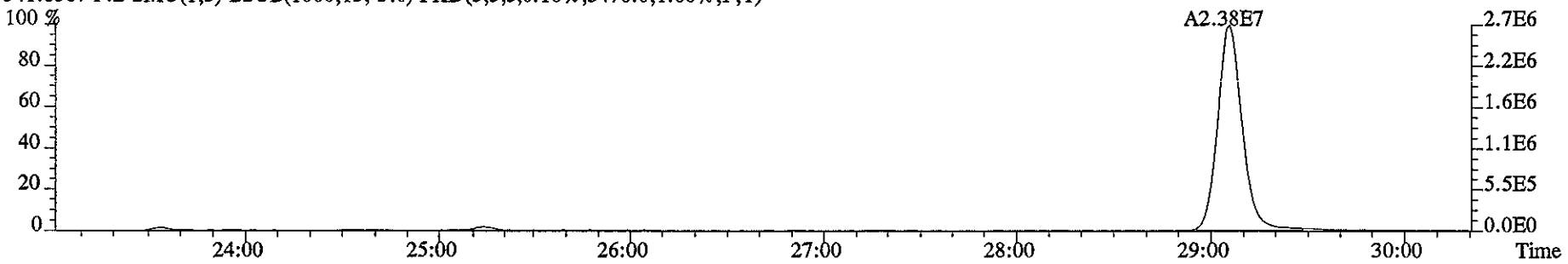
342.9792 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



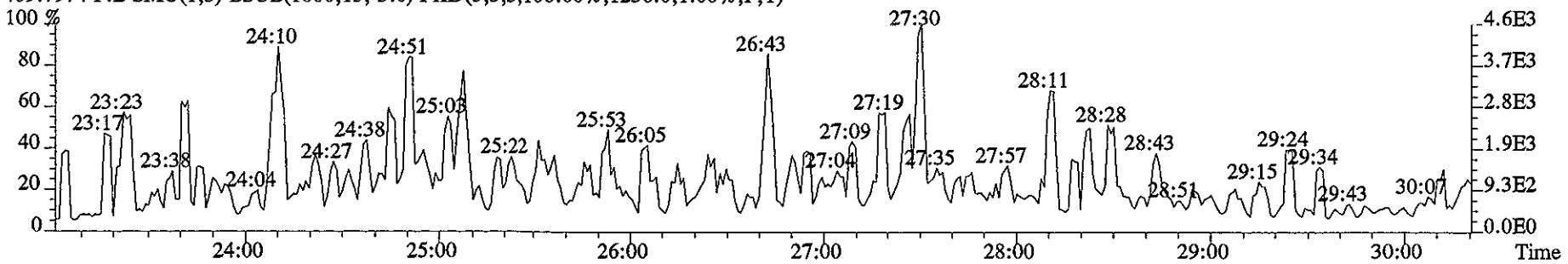
339.8597 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2936.0,1.00%,F,T)



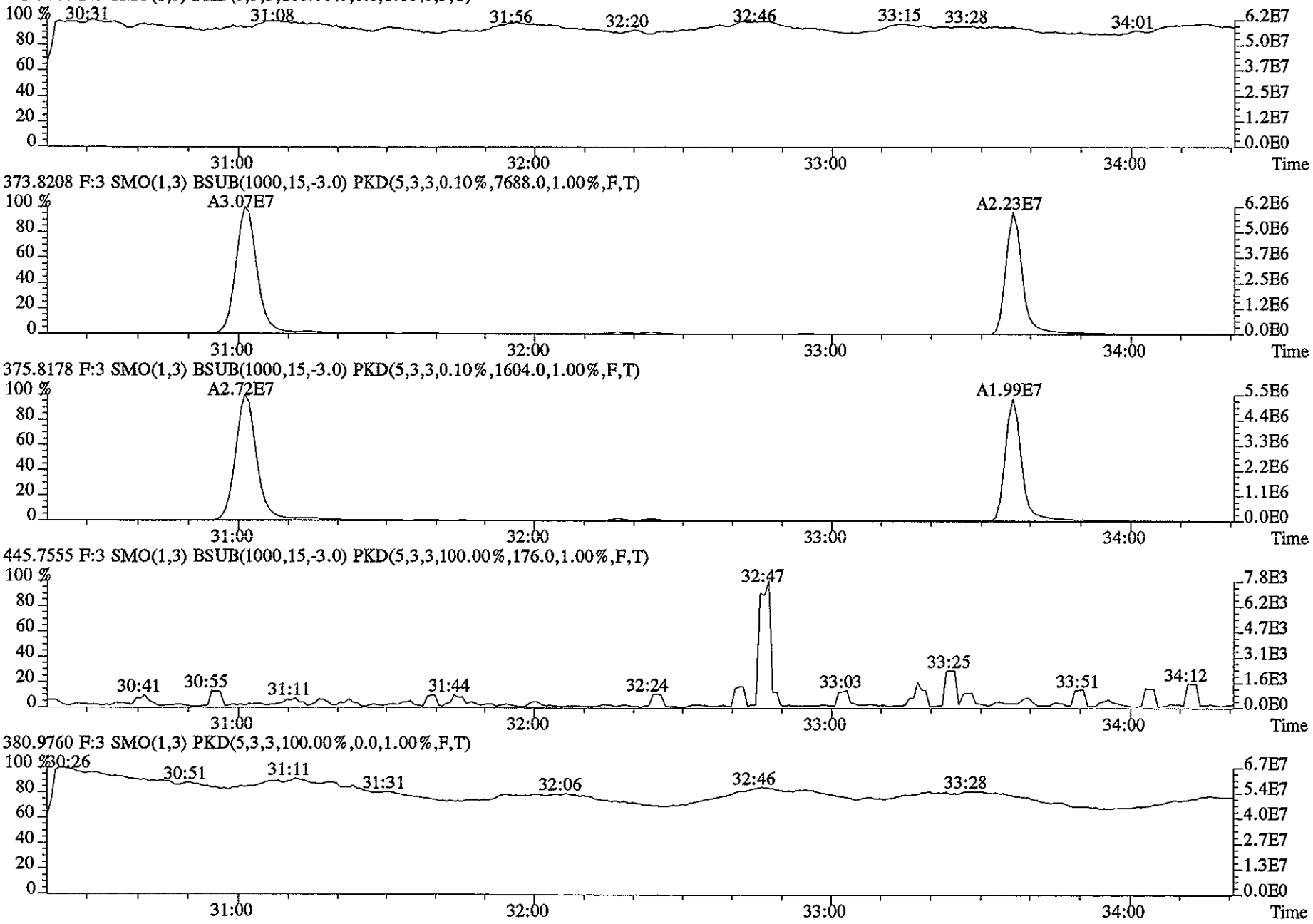
341.8567 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3476.0,1.00%,F,T)



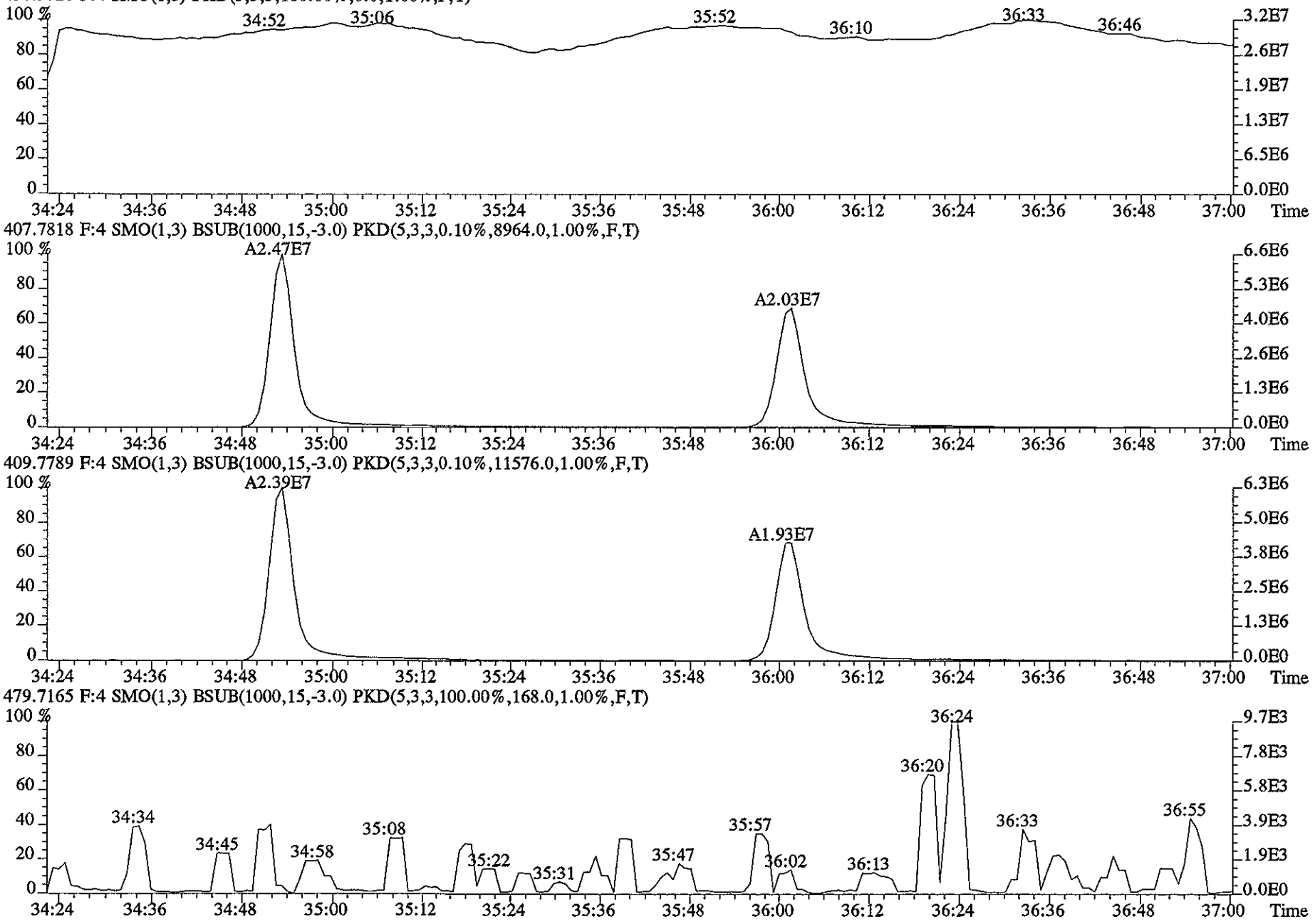
409.7974 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1236.0,1.00%,F,T)



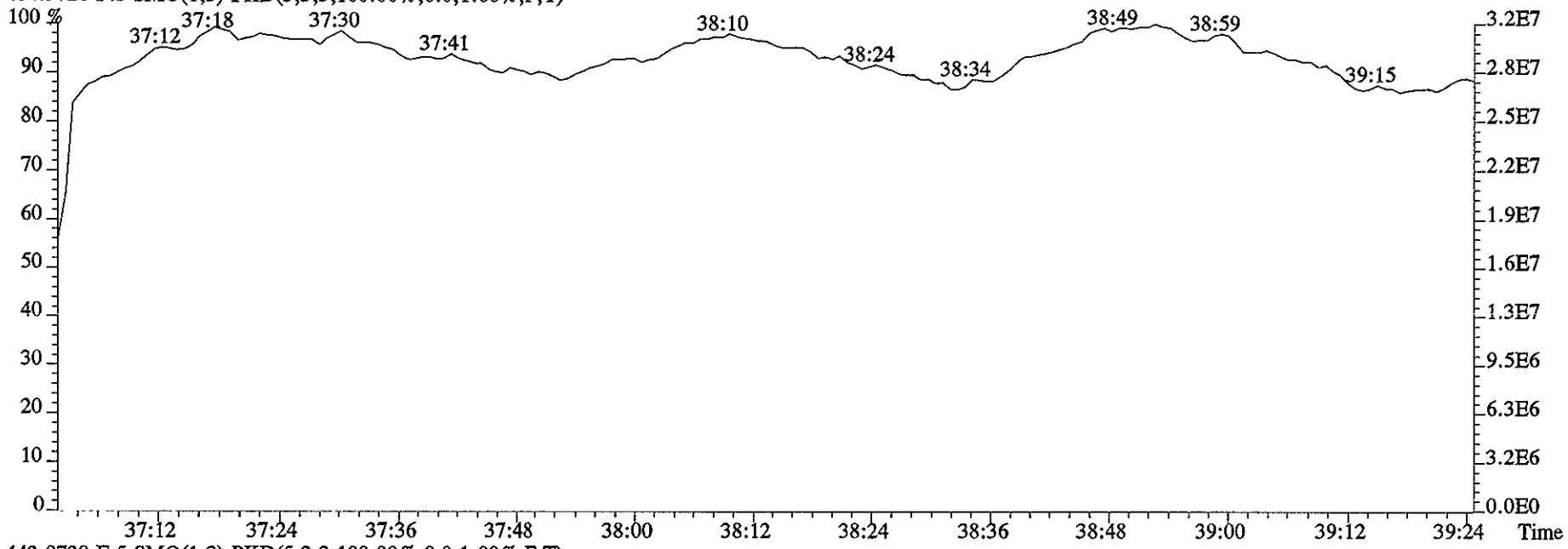
File:07DE104D5 #1-287 Acq: 7-DEC-2010 10:40:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1207 :DB-5 CPSM 10LRES076 Exp:DIOXINRES



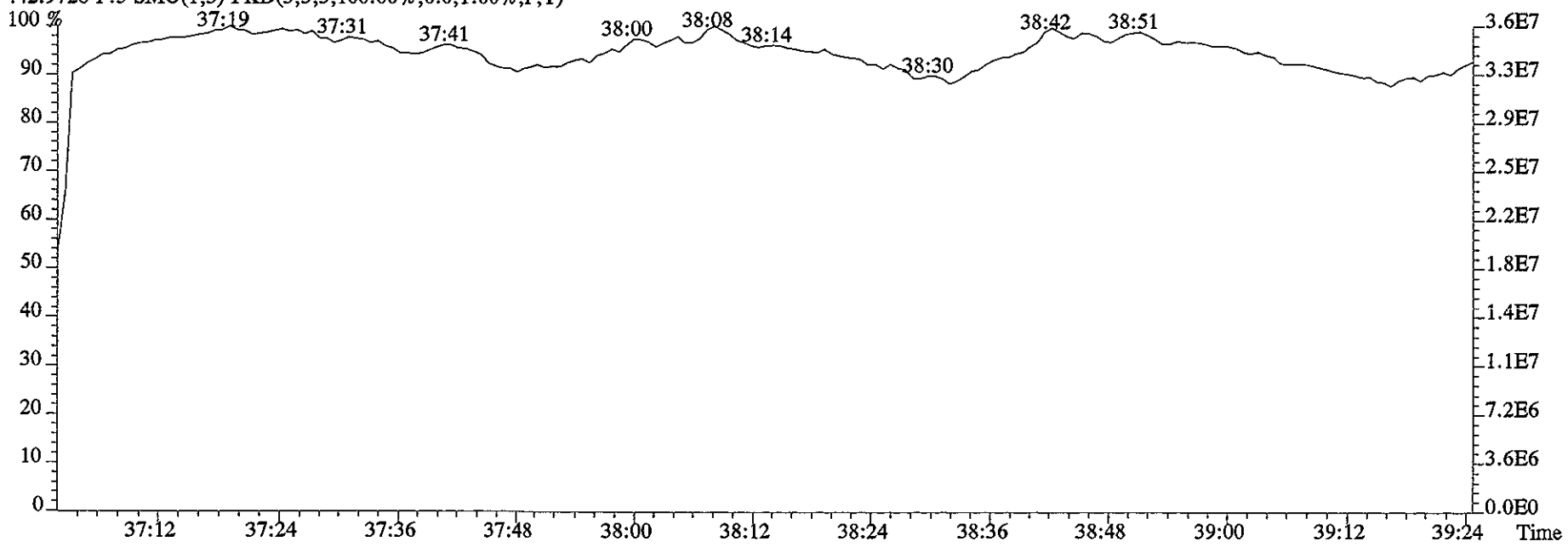
File:07DE104D5 #1-200 Acq: 7-DEC-2010 10:40:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1207 :DB-5 CPSM 10LRES076 Exp:DIOXINRES



File:07DE104D5 #1-193 Acq: 7-DEC-2010 10:40:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1207 :DB-5 CPSM 10LRES076 Exp:DIOXINRES
454.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

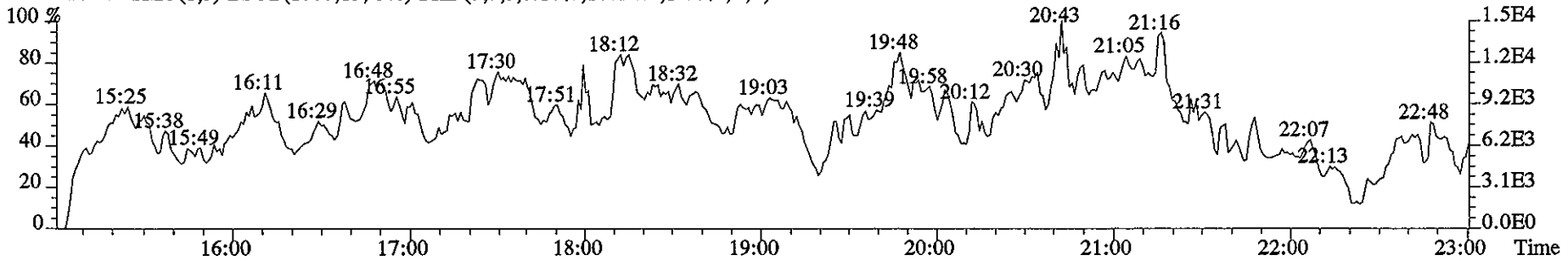


442.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

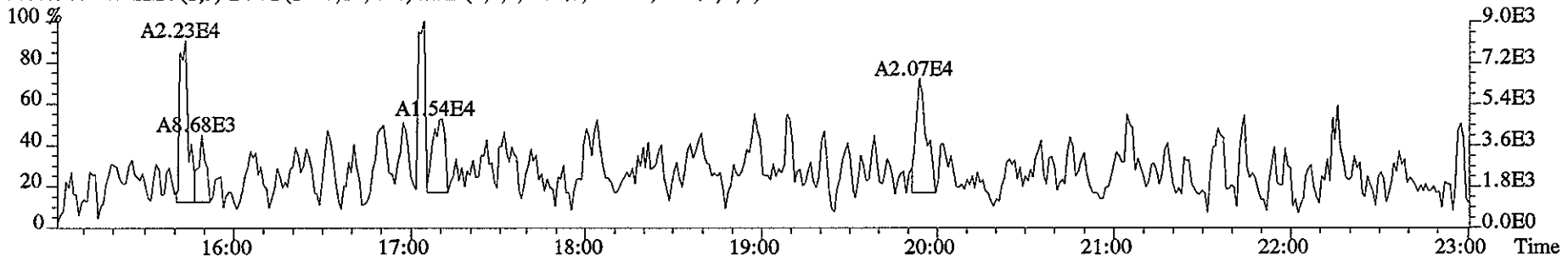


File:07DE104D5 #1-530 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES

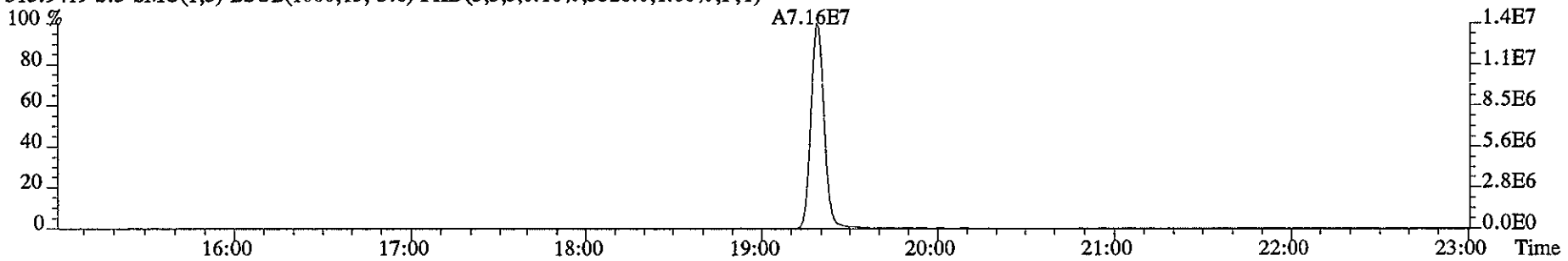
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10724.0,1.00%,F,T)



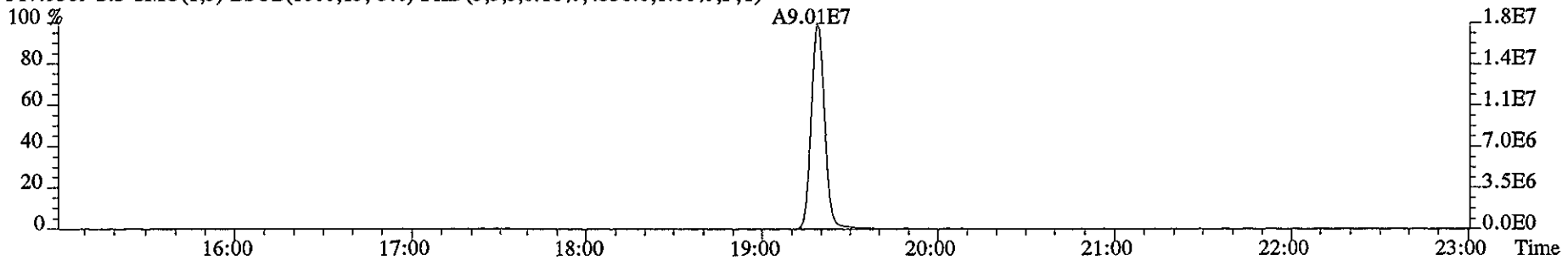
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3004.0,1.00%,F,T)



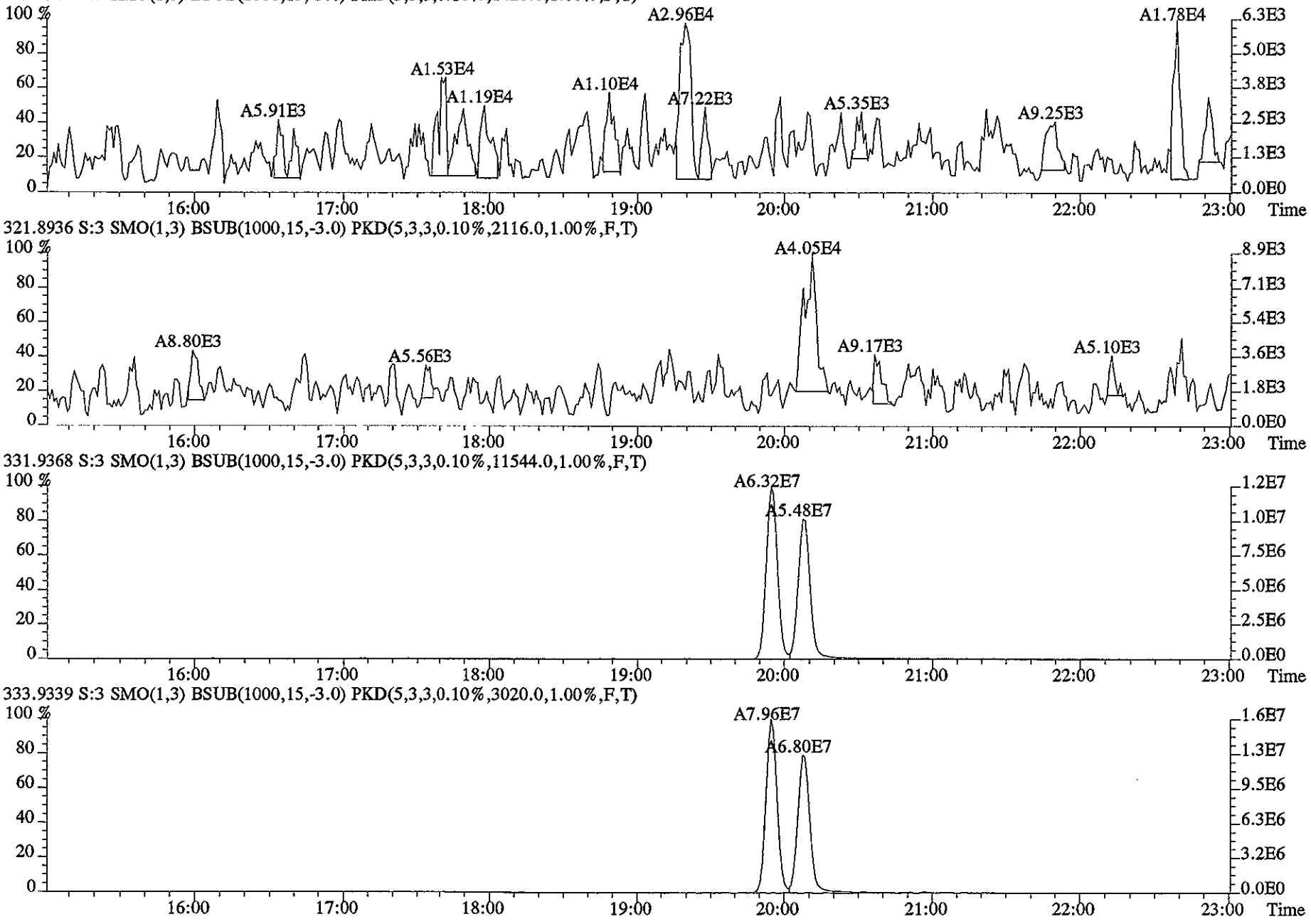
315.9419 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3528.0,1.00%,F,T)



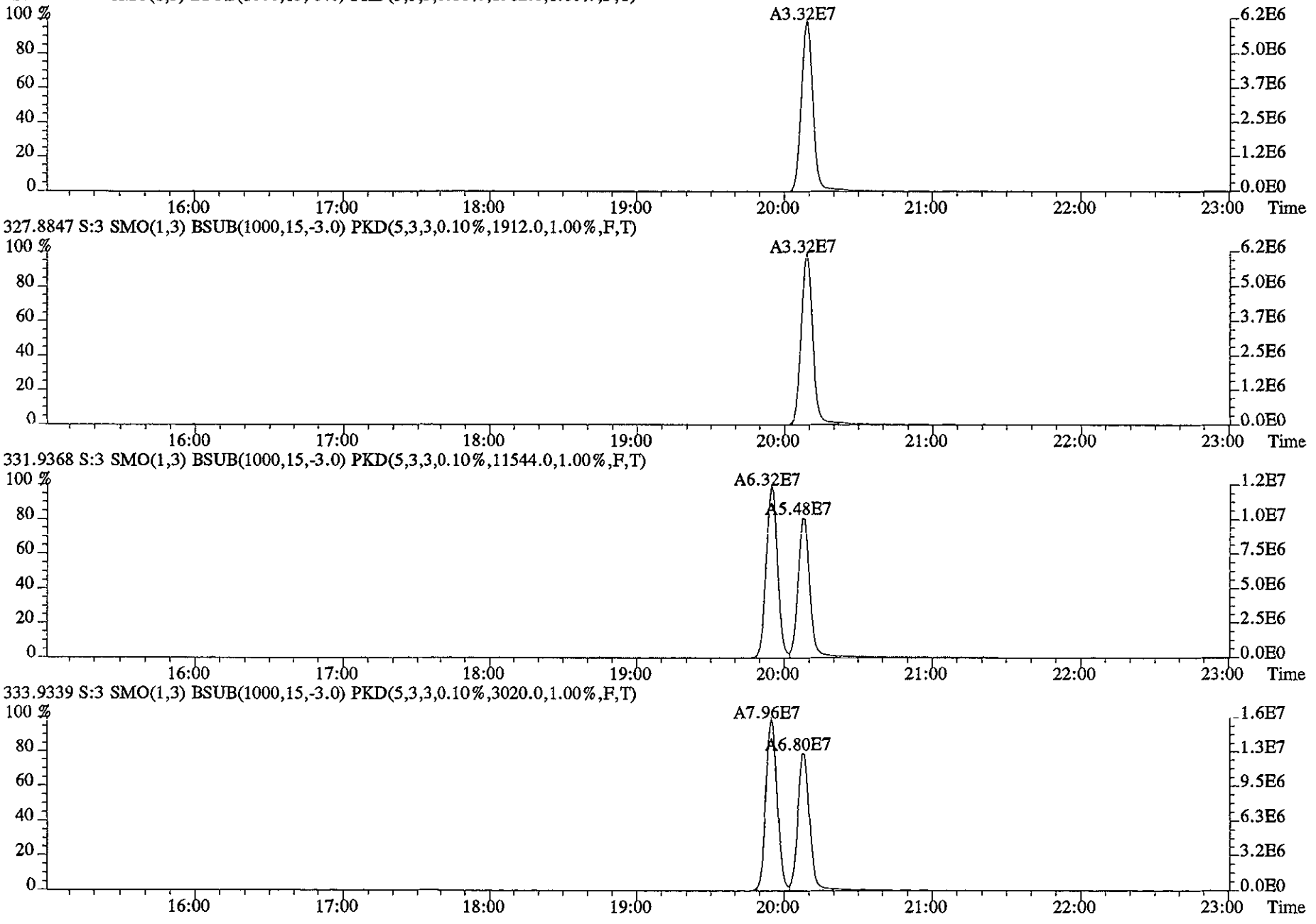
317.9389 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4536.0,1.00%,F,T)



File:07DE104D5 #1-530 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES

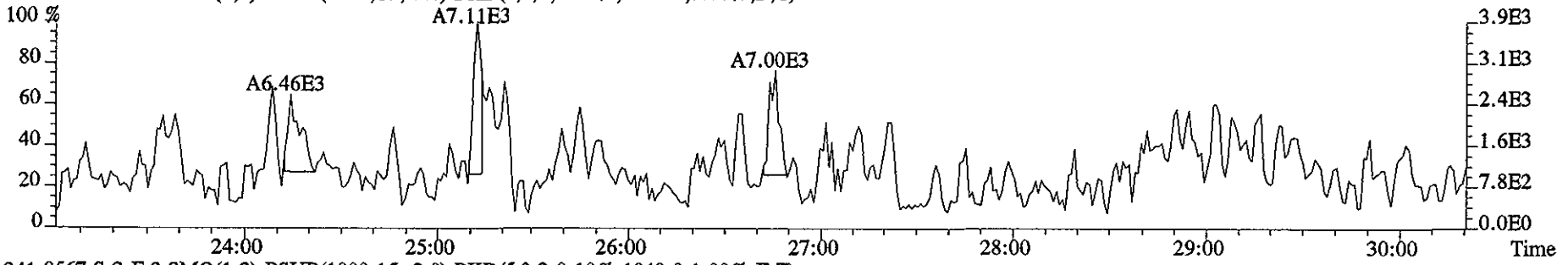


File:07DE104D5 #1-530 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES

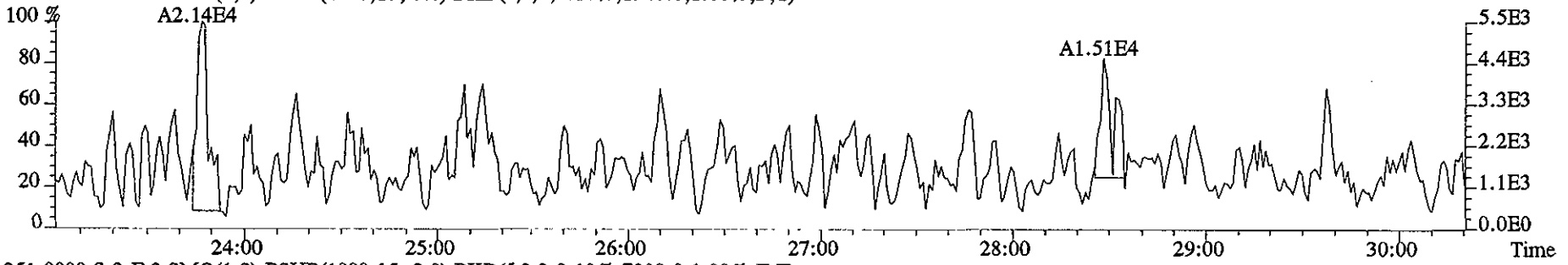


File:07DE104D5 #1-470 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES

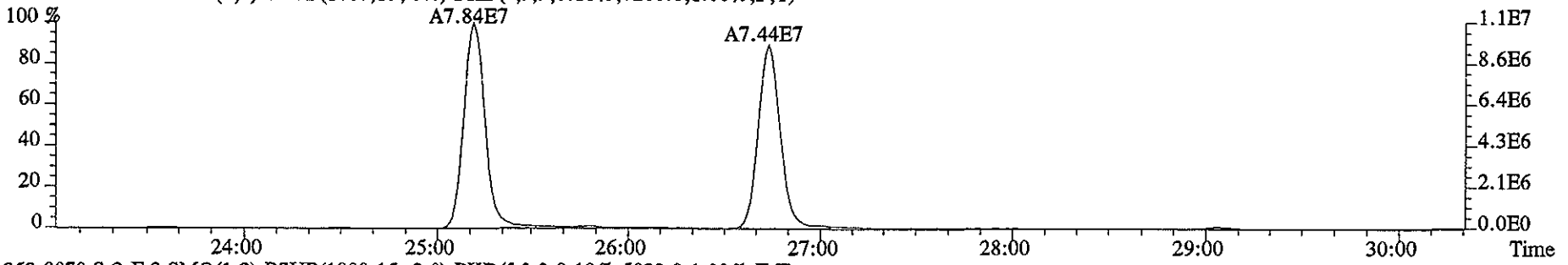
339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1260.0,1.00%,F,T)



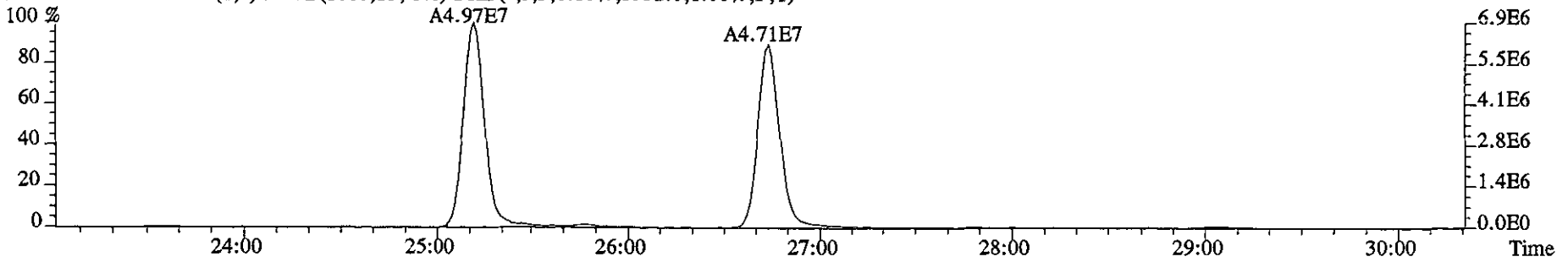
341.8567 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1940.0,1.00%,F,T)



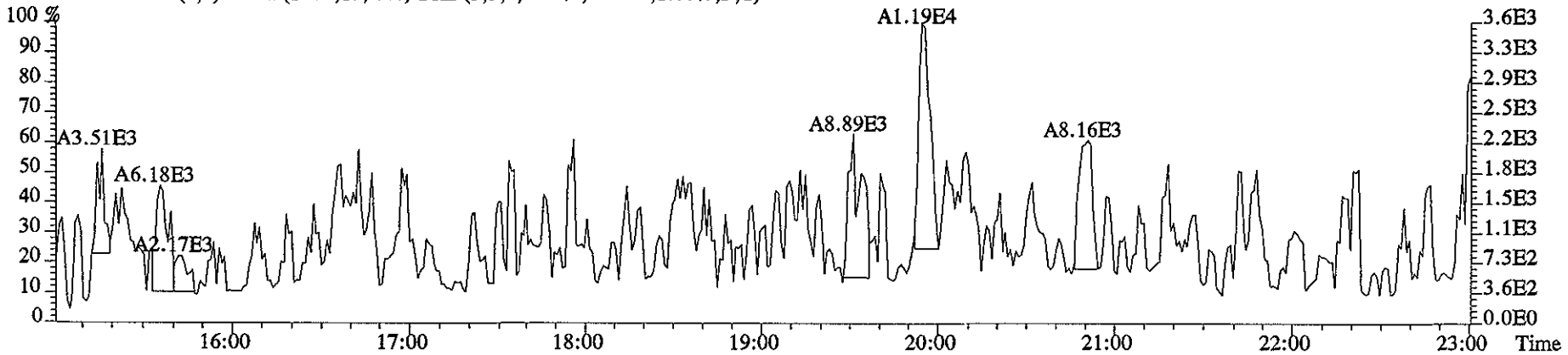
351.9000 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7208.0,1.00%,F,T)



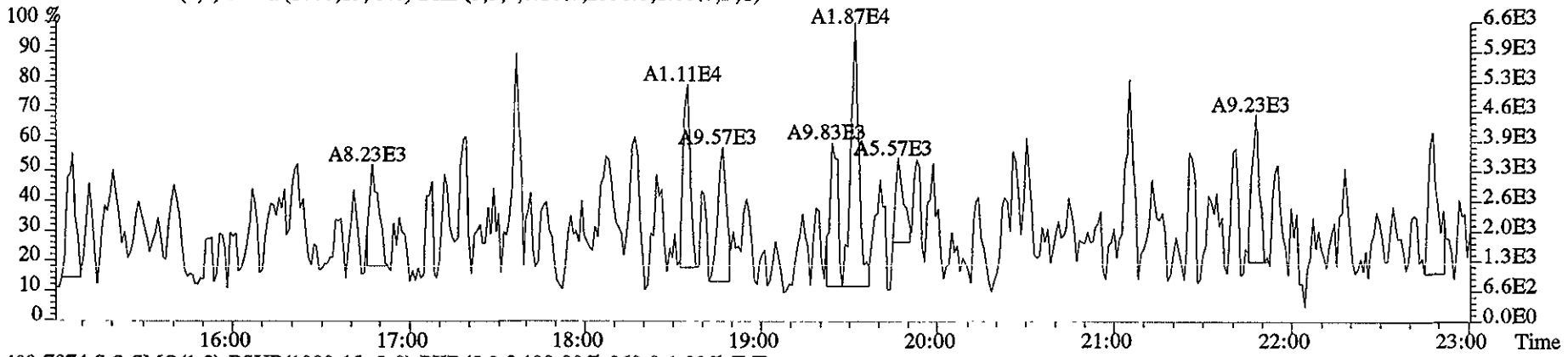
353.8970 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5932.0,1.00%,F,T)



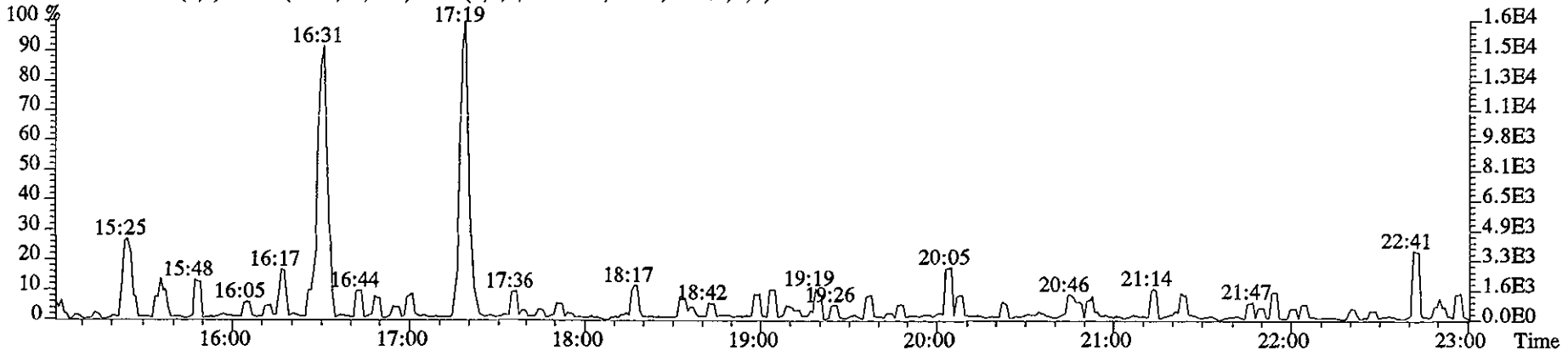
File:07DE104D5 #1-530 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES
339.8597 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1088.0,1.00%,F,T)



341.8567 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2336.0,1.00%,F,T)

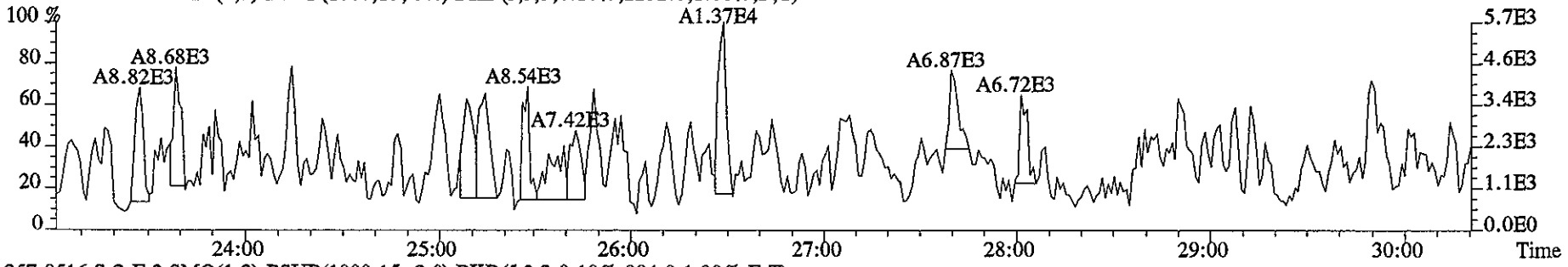


409.7974 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,260.0,1.00%,F,T)

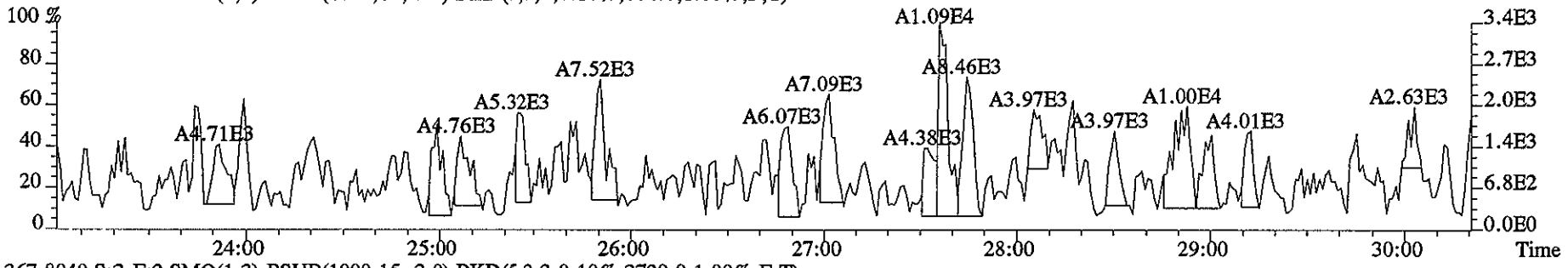


File:07DE104D5 #1-470 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES

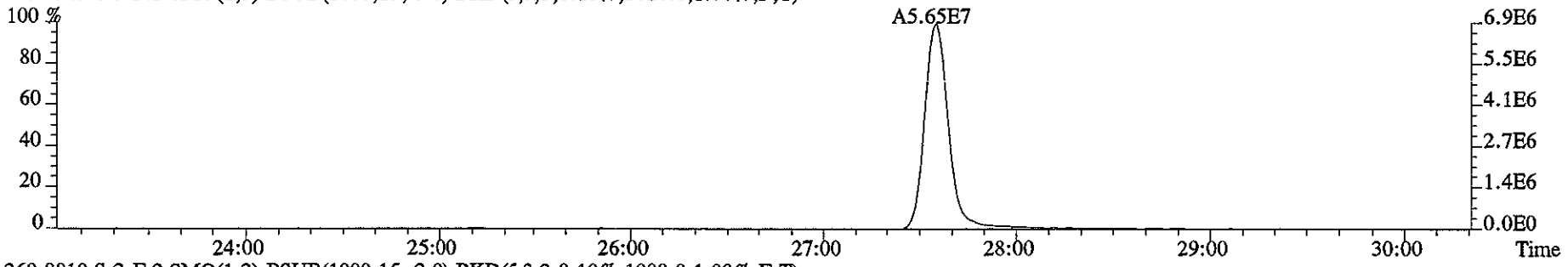
355.8546 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2232.0,1.00%,F,T)



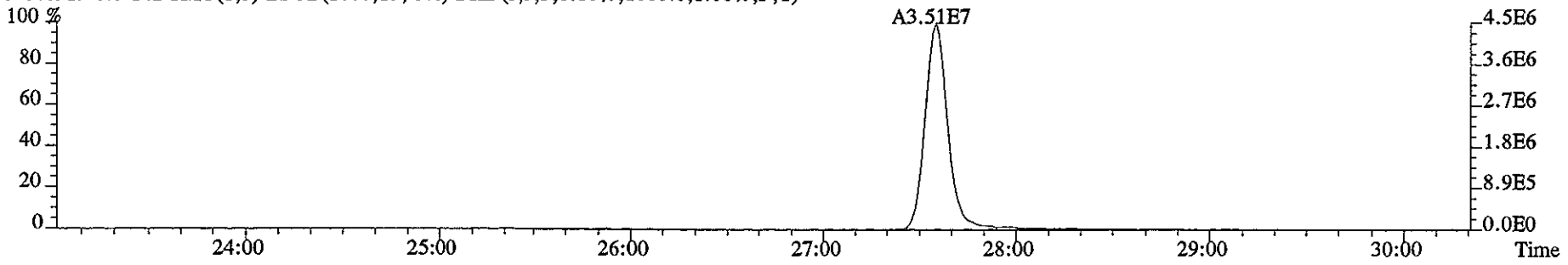
357.8516 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,884.0,1.00%,F,T)



367.8949 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3720.0,1.00%,F,T)

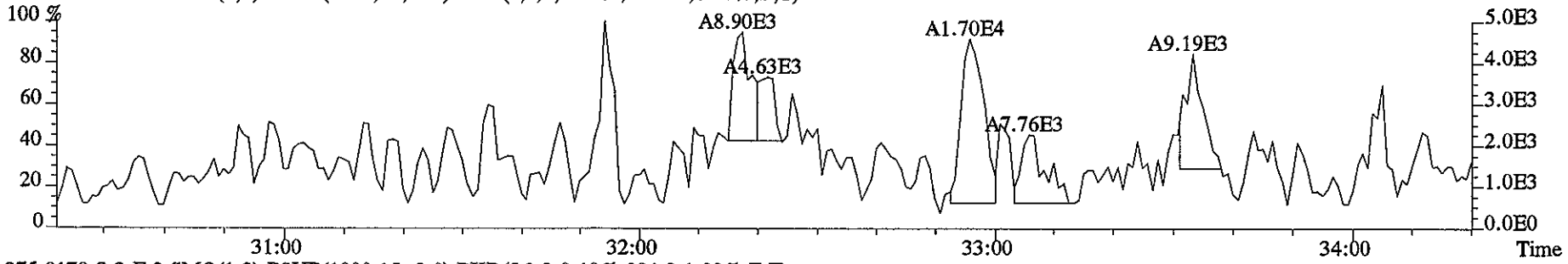


369.8919 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1008.0,1.00%,F,T)

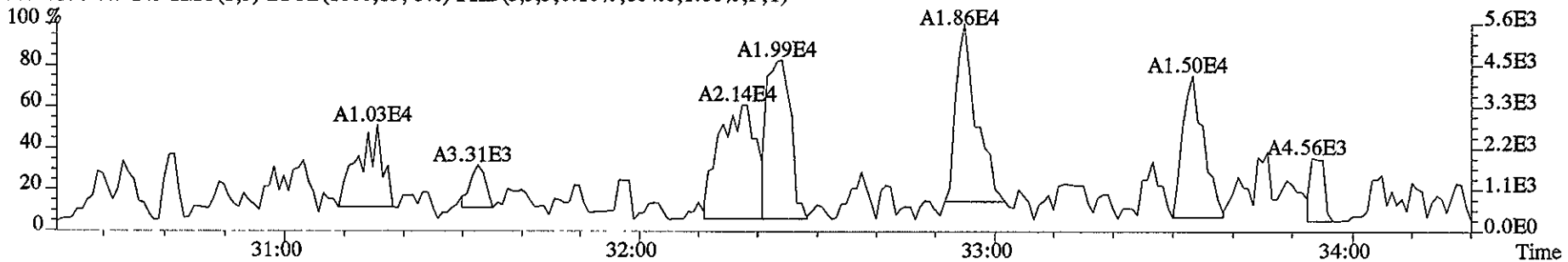


File:07DE104D5 #1-286 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES

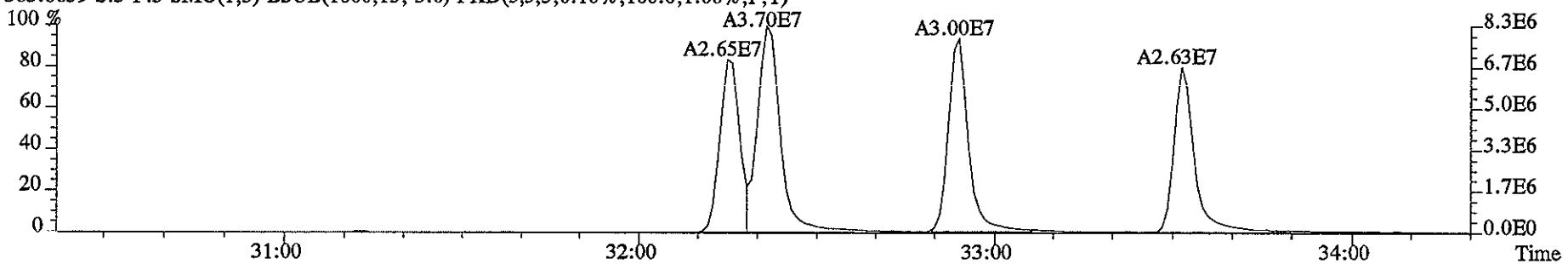
373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1956.0,1.00%,F,T)



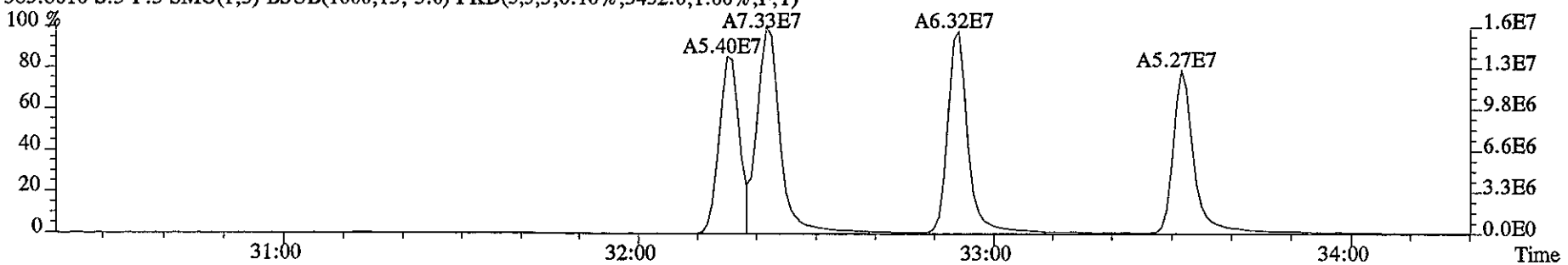
375.8178 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,884.0,1.00%,F,T)



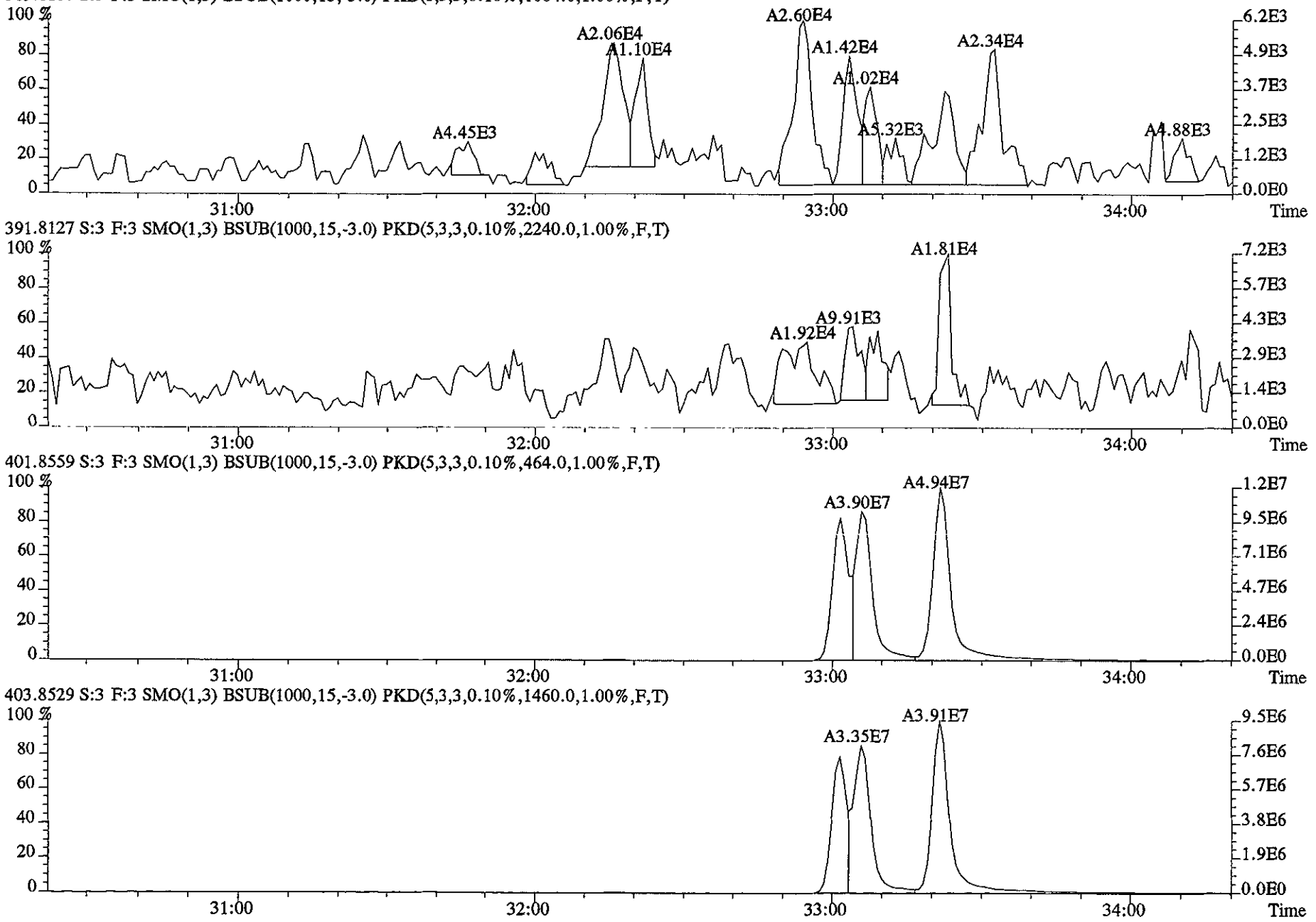
383.8639 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,160.0,1.00%,F,T)



385.8610 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3452.0,1.00%,F,T)

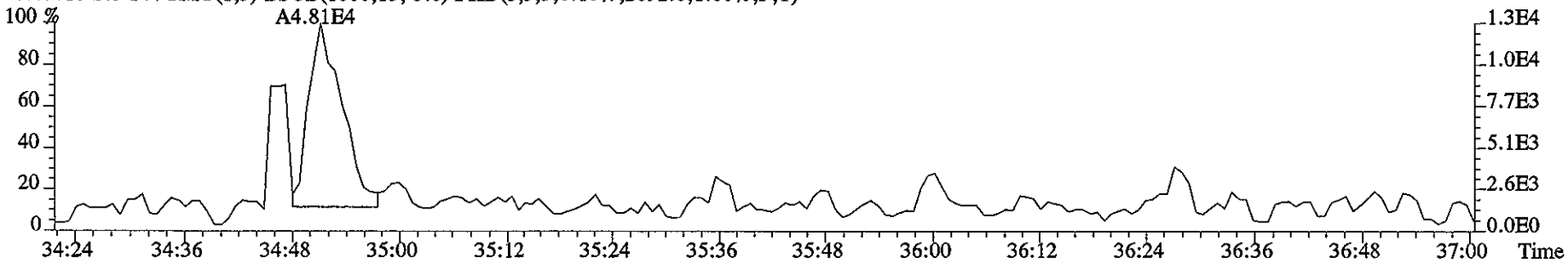


File:07DE104D5 #1-286 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES

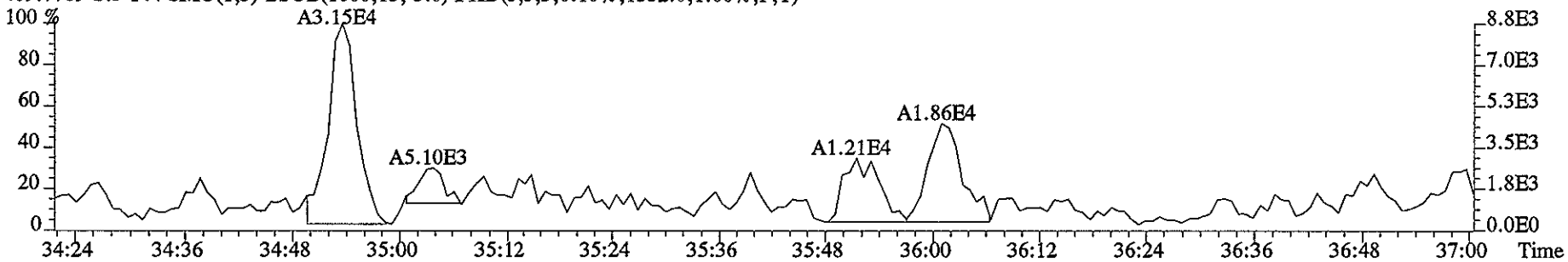


File:07DE104D5 #1-201 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES

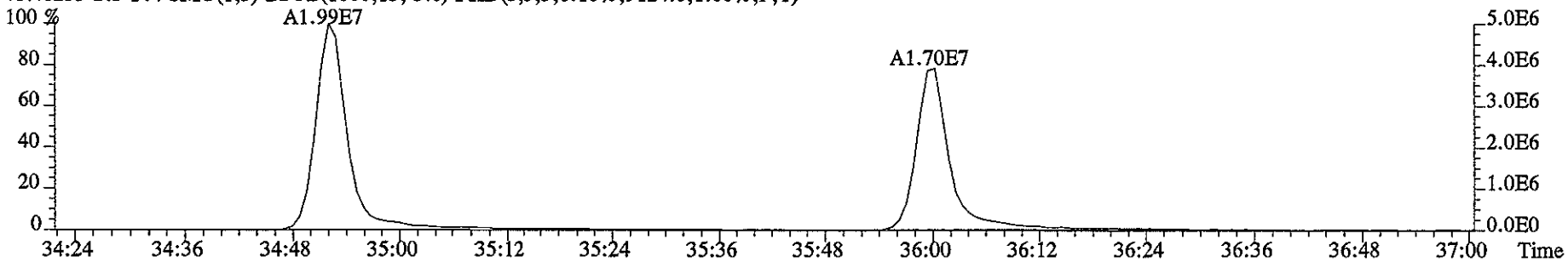
407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2092.0,1.00%,F,T)



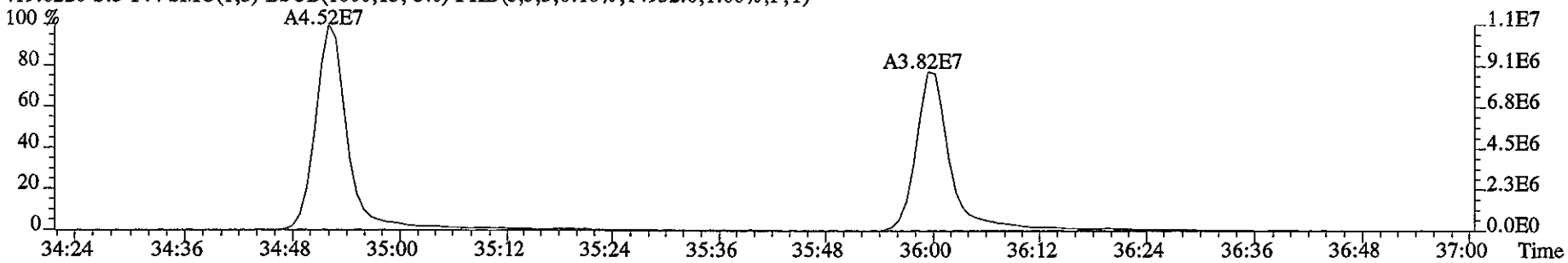
409.7789 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1552.0,1.00%,F,T)



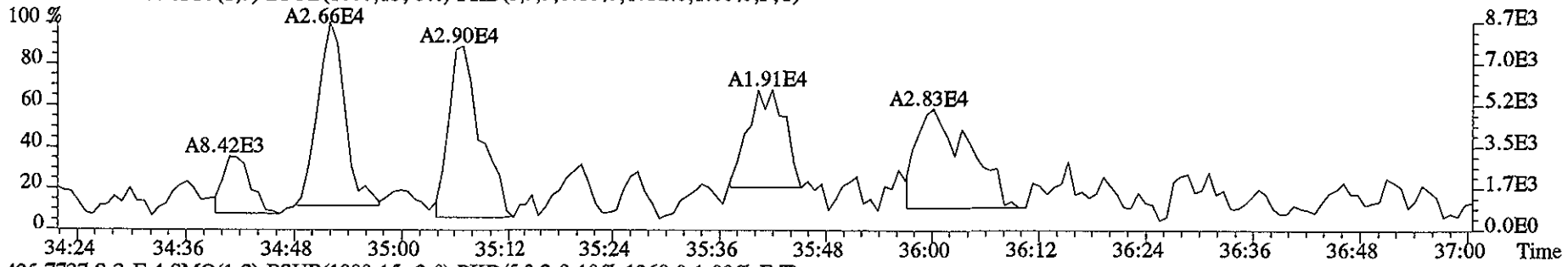
417.8253 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9124.0,1.00%,F,T)



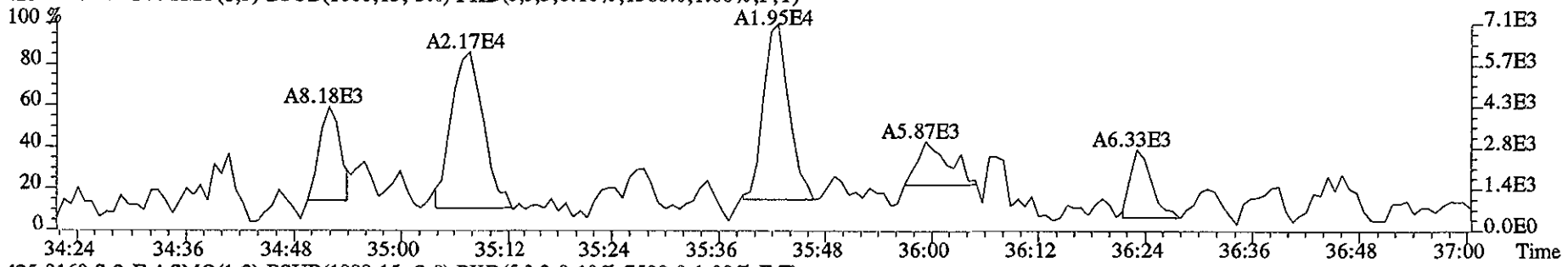
419.8220 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14932.0,1.00%,F,T)



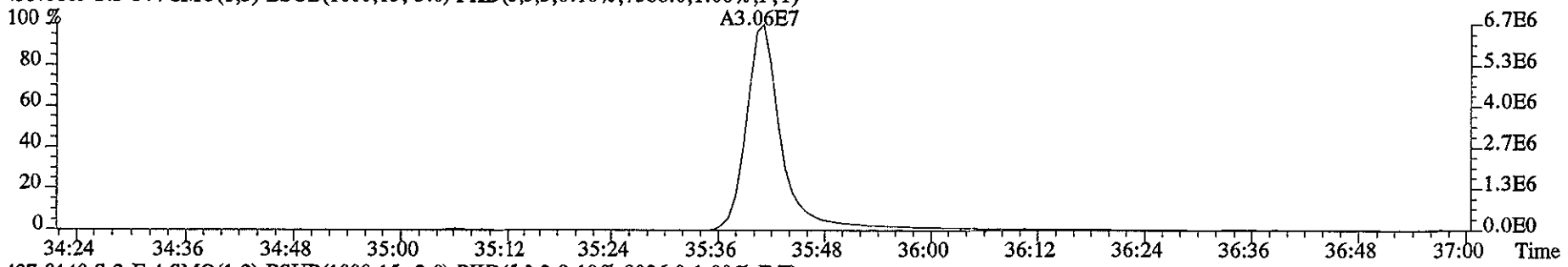
File:07DE104D5 #1-201 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES
423.7766 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1752.0,1.00%,F,T)



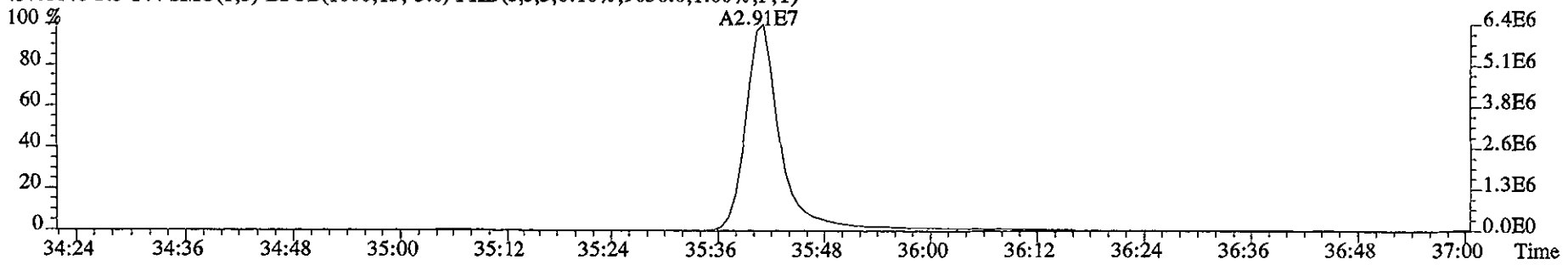
425.7737 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1368.0,1.00%,F,T)



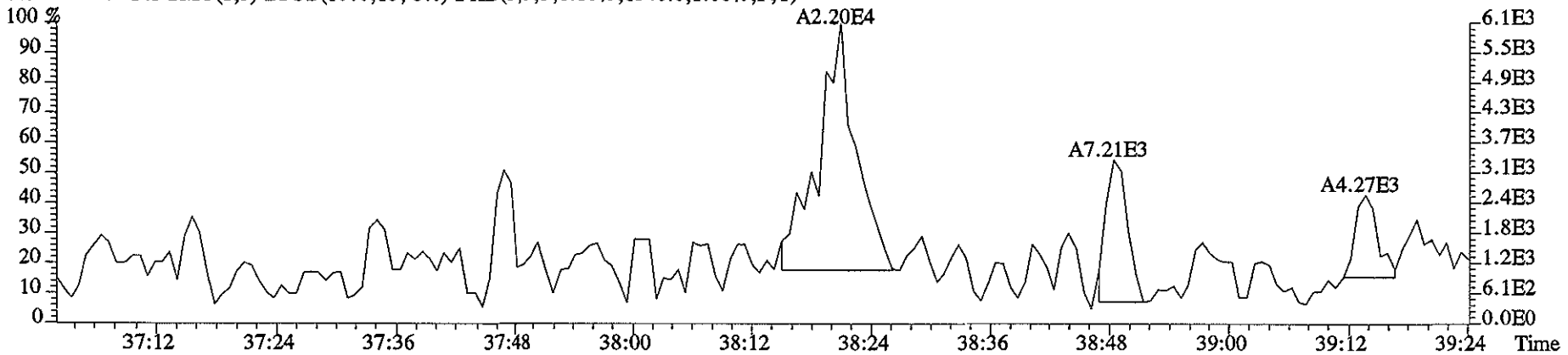
435.8169 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7588.0,1.00%,F,T)



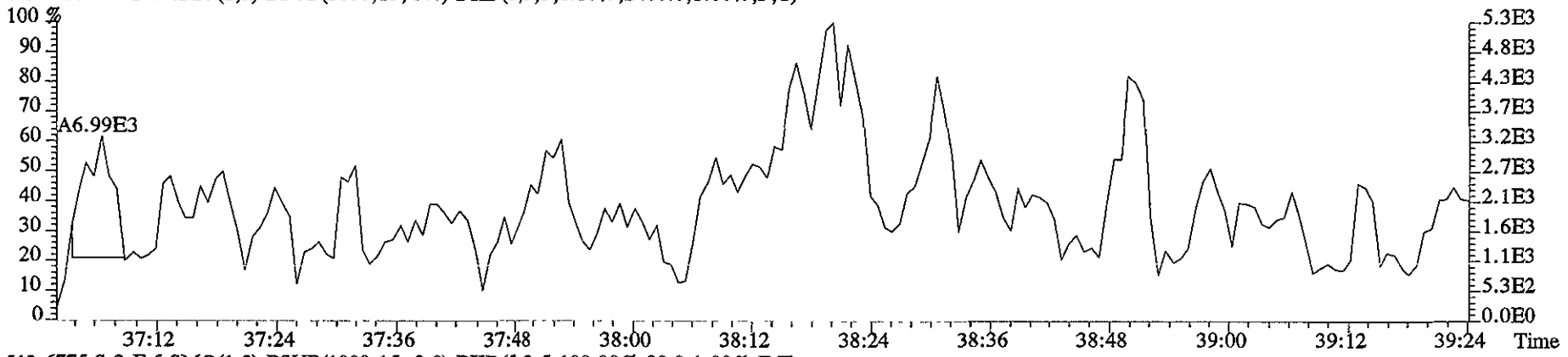
437.8140 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9036.0,1.00%,F,T)



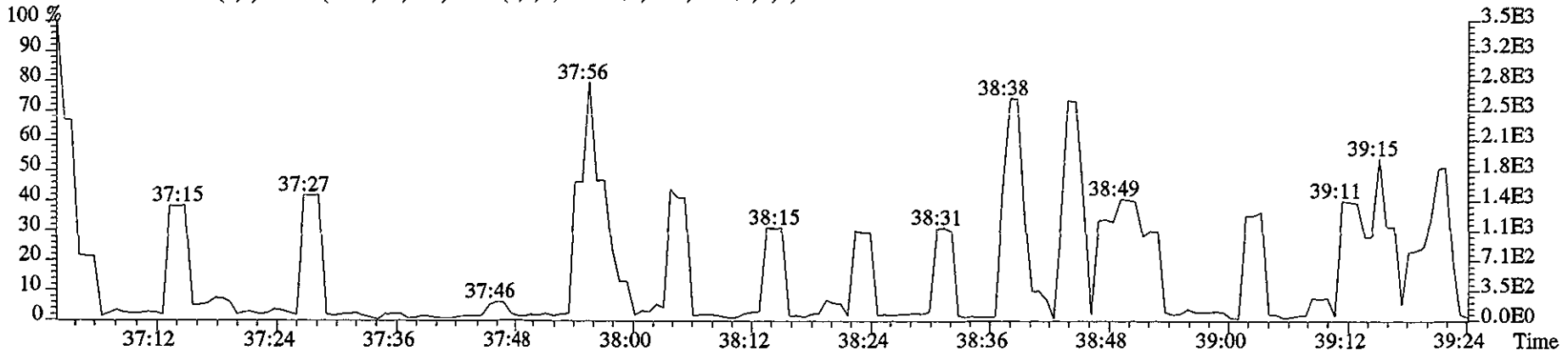
File:07DE104D5 #1-192 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES
441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1340.0,1.00%,F,T)

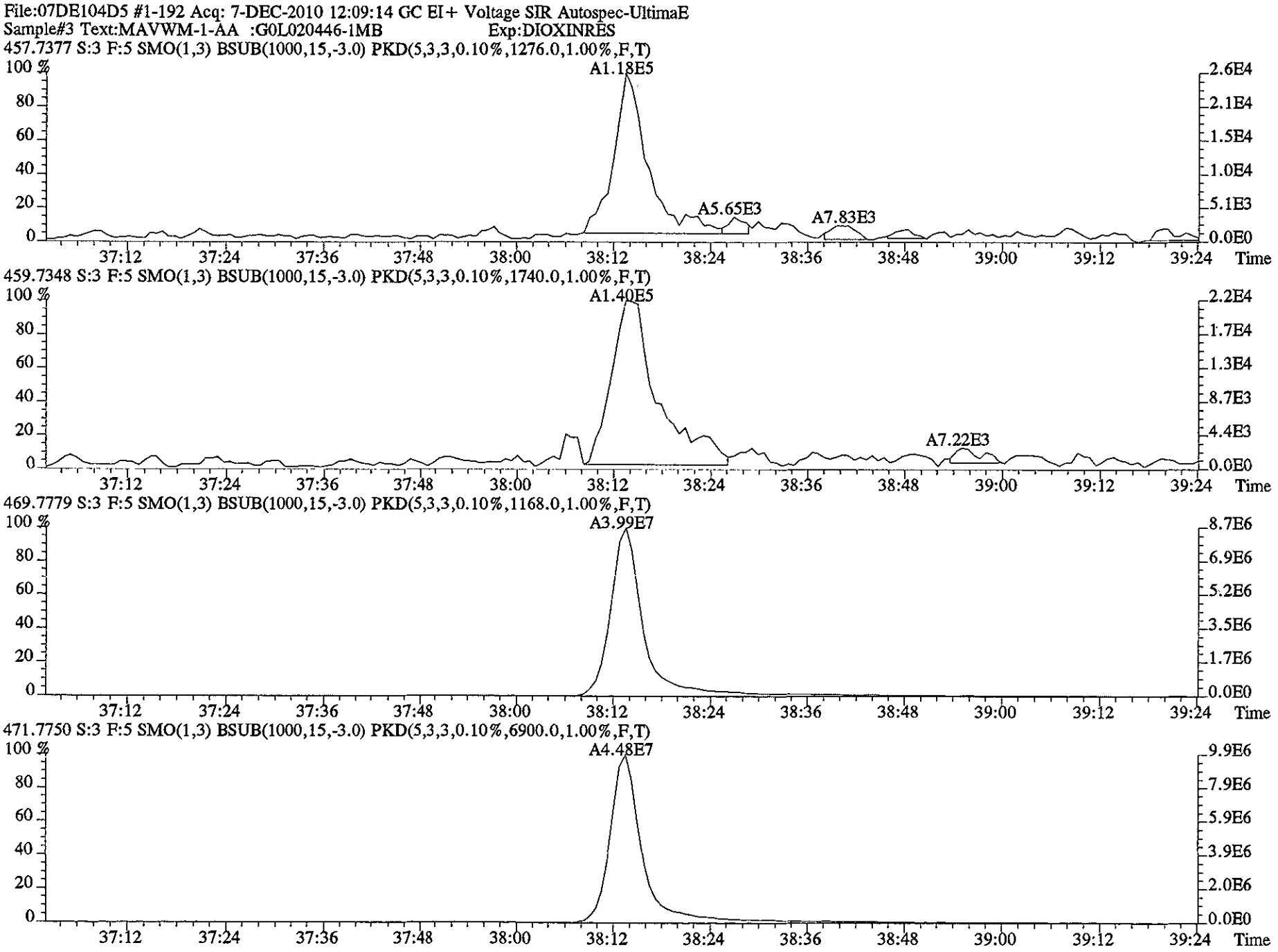


443.7399 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2408.0,1.00%,F,T)

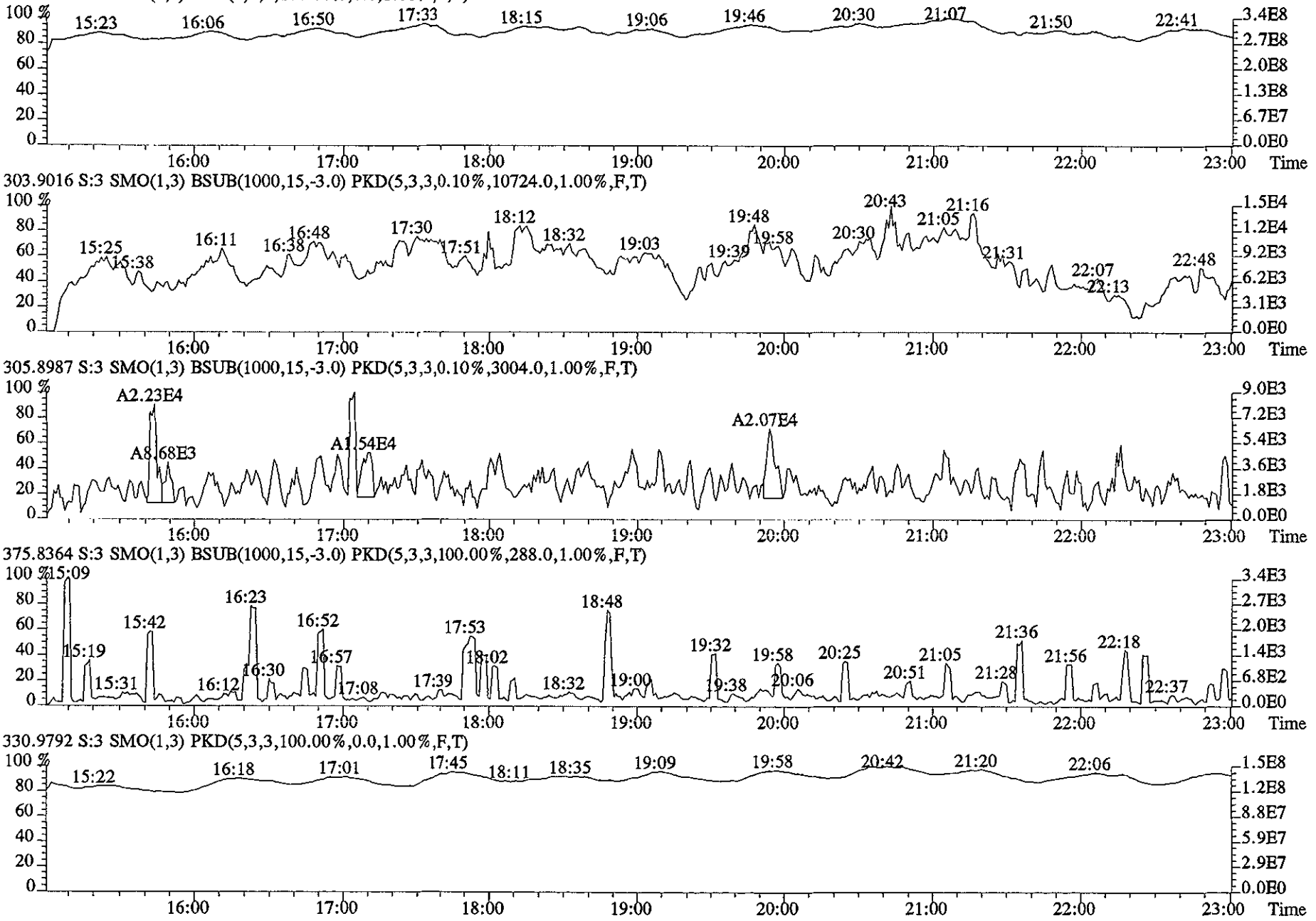


513.6775 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,88.0,1.00%,F,T)



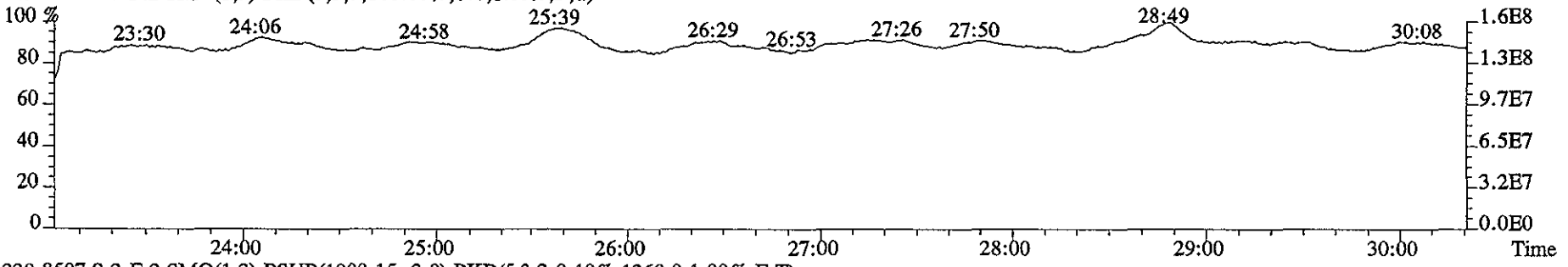

File:07DE104D5 #1-192 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES
457.7377 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1276.0,1.00%,F,T)
A1.18E5
A5.65E3
A7.83E3
459.7348 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1740.0,1.00%,F,T)
A1.40E5
A7.22E3
469.7779 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1168.0,1.00%,F,T)
A3.99E7
471.7750 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6900.0,1.00%,F,T)
A4.48E7
100 %
80
60
40
20
0
37:12
37:24
37:36
37:48
38:00
38:12
38:24
38:36
38:48
39:00
39:12
39:24
Time
2.6E4
2.1E4
1.5E4
1.0E4
5.1E3
0.0E0
2.2E4
1.7E4
1.3E4
8.7E3
4.4E3
0.0E0
8.7E6
6.9E6
5.2E6
3.5E6
1.7E6
0.0E0
9.9E6
7.9E6
5.9E6
3.9E6
2.0E6
0.0E0

File:07DE104D5 #1-530 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES

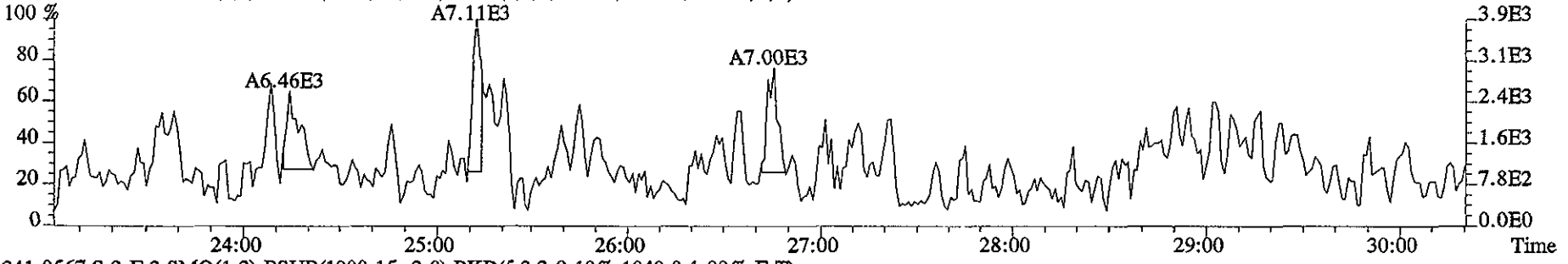


File:07DE104D5 #1-470 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES

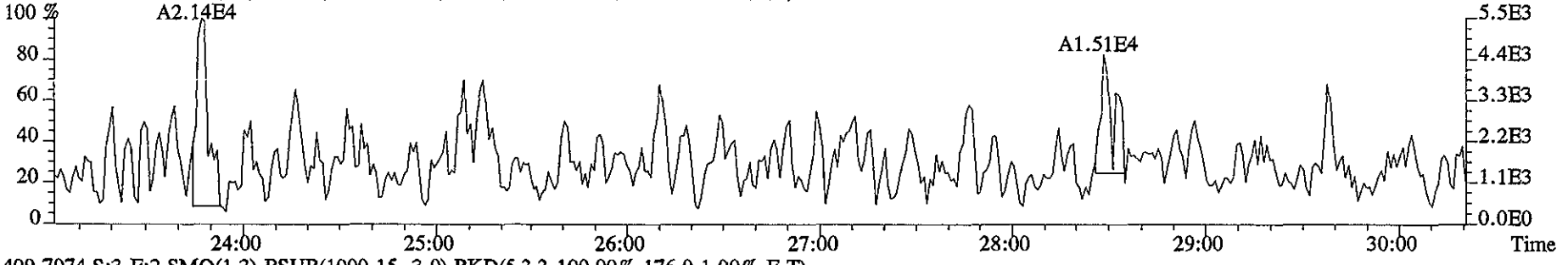
342.9792 S:3 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



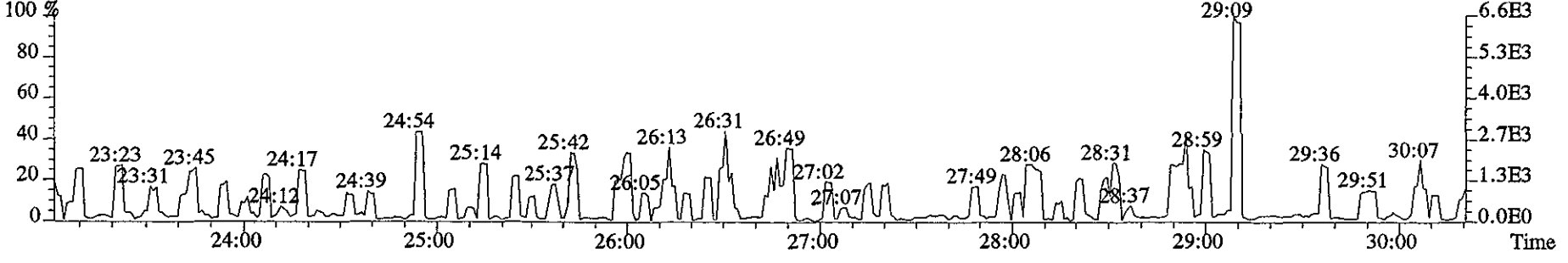
339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1260.0,1.00%,F,T)



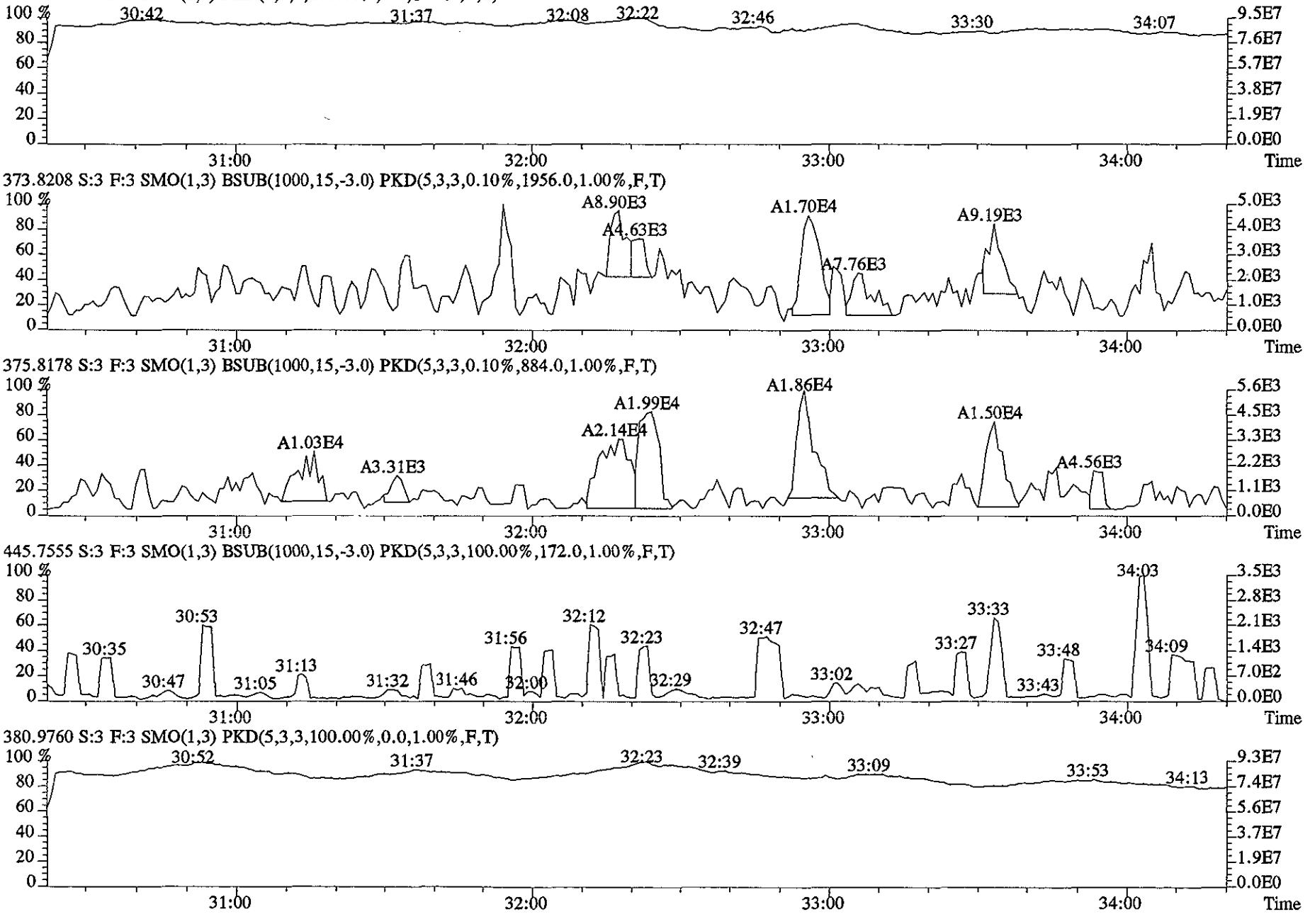
341.8567 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1940.0,1.00%,F,T)



409.7974 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,176.0,1.00%,F,T)

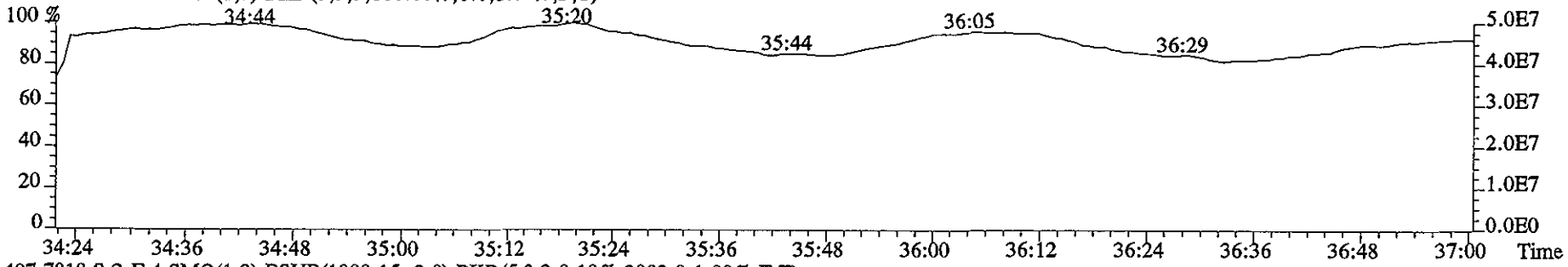


File:07DE104D5 #1-286 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES

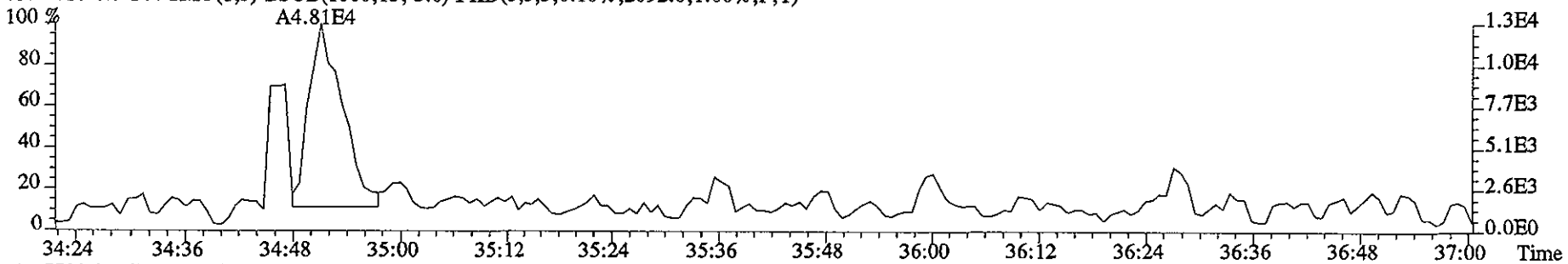


File:07DE104D5 #1-201 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES

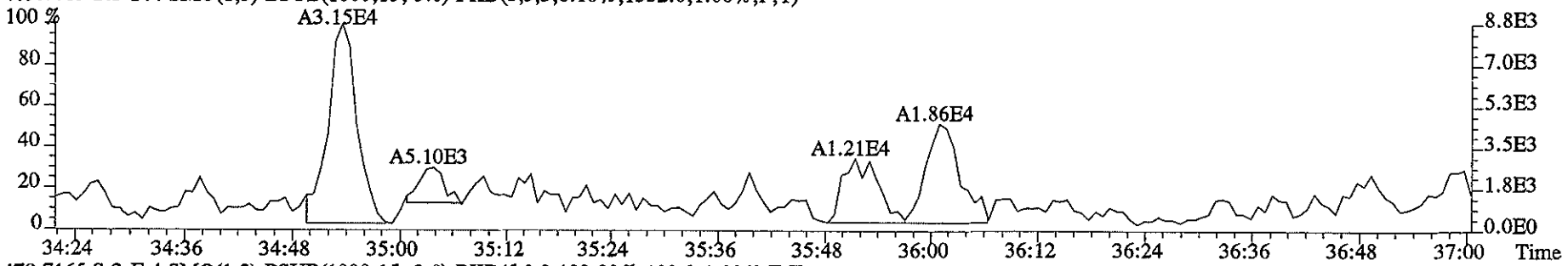
430.9728 S:3 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



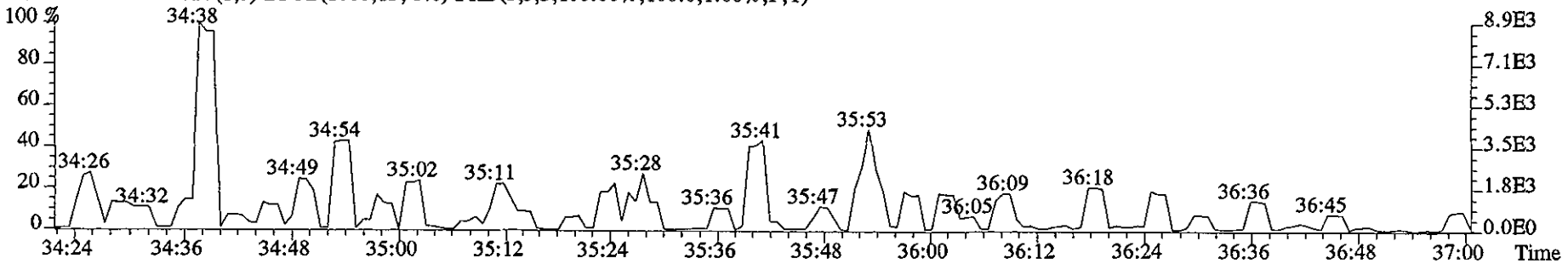
407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2092.0,1.00%,F,T)



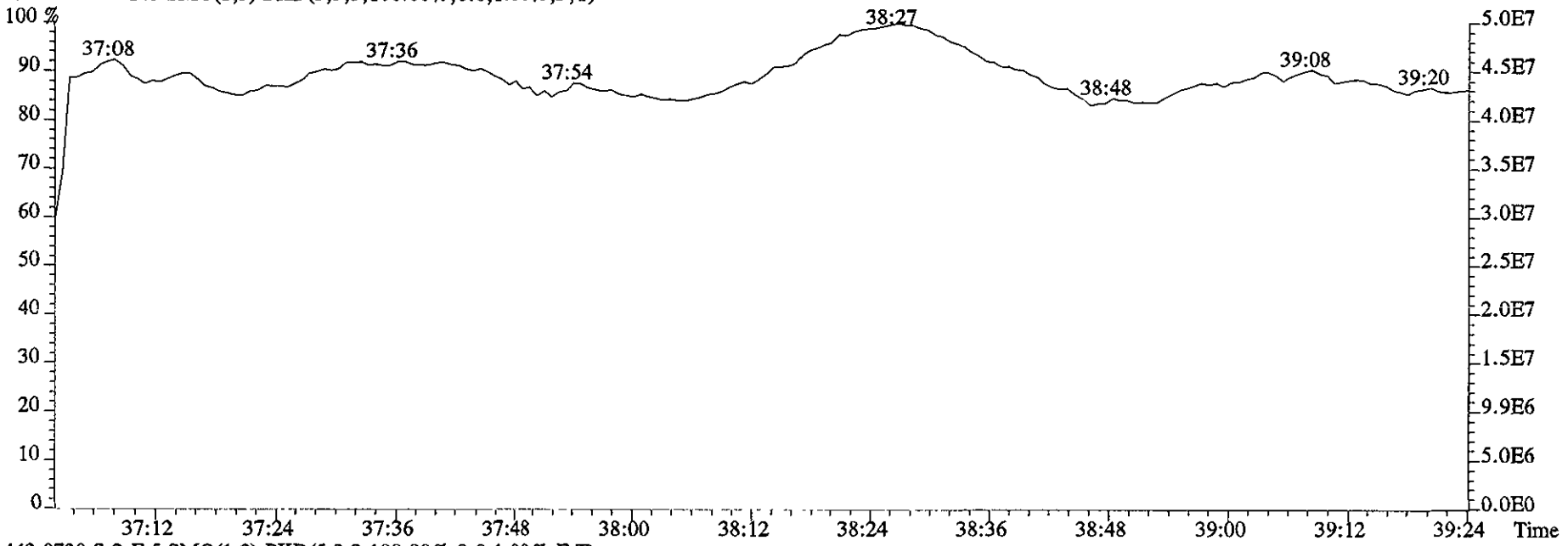
409.7789 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1552.0,1.00%,F,T)



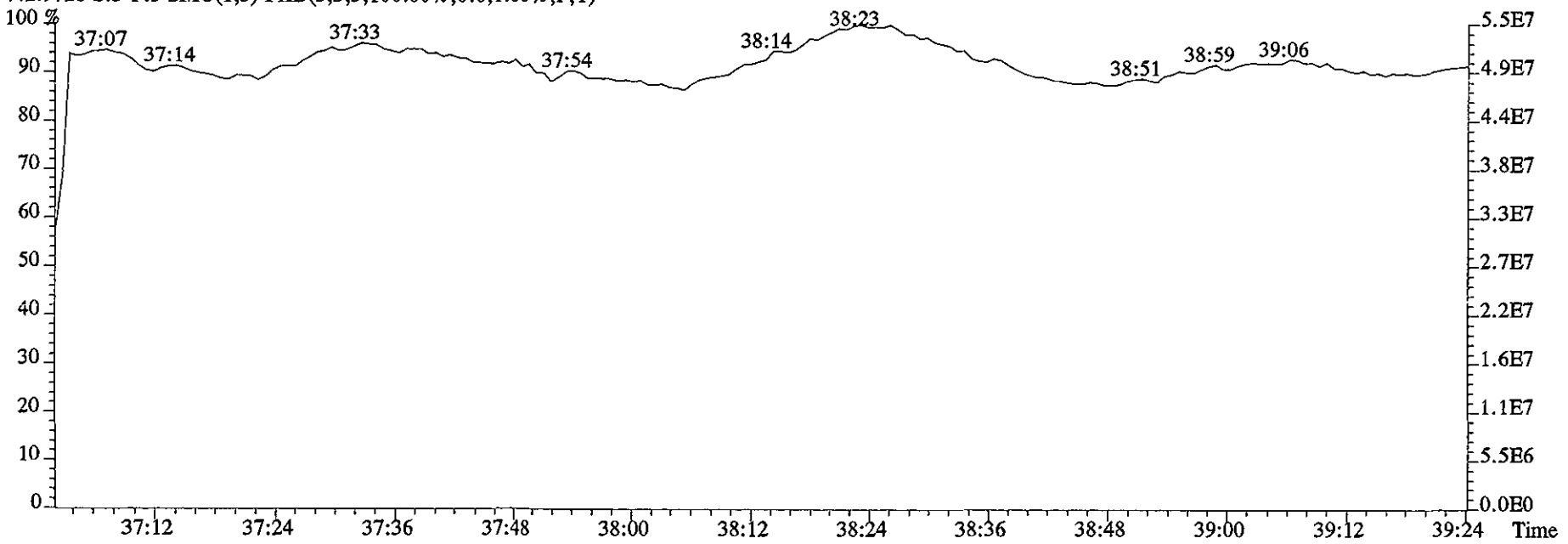
479.7165 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,100.0,1.00%,F,T)



File:07DE104D5 #1-192 Acq: 7-DEC-2010 12:09:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:MAVWM-1-AA :G0L020446-1MB Exp:DIOXINRES
454.9728 S:3 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

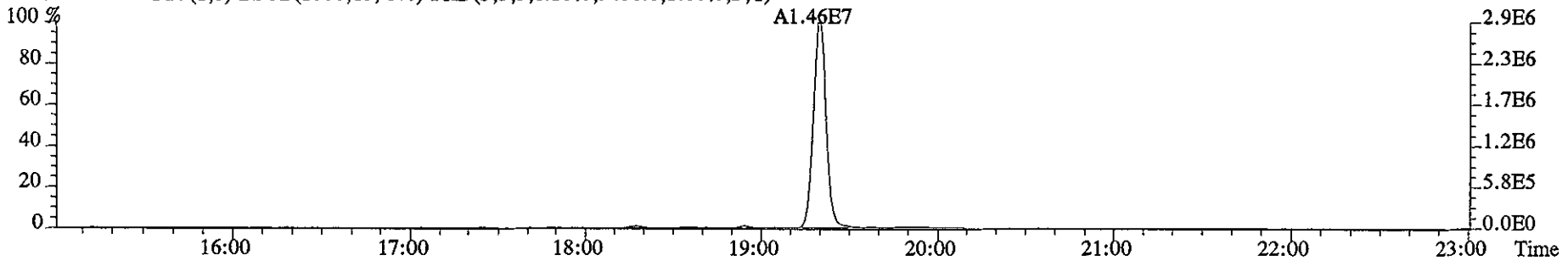


442.9728 S:3 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

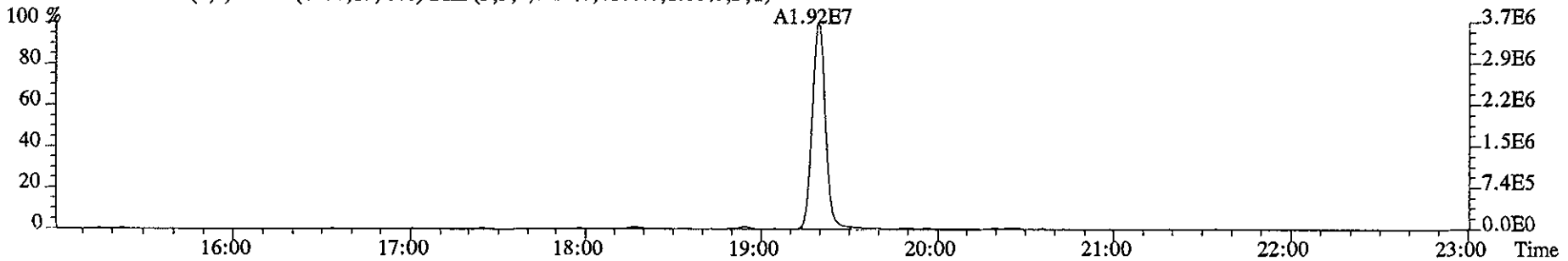


File:07DE104D5 #1-530 Acq: 7-DEC-2010 19:34:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:ST1207A :CS3 10DXN461 Exp:DIOXINRES

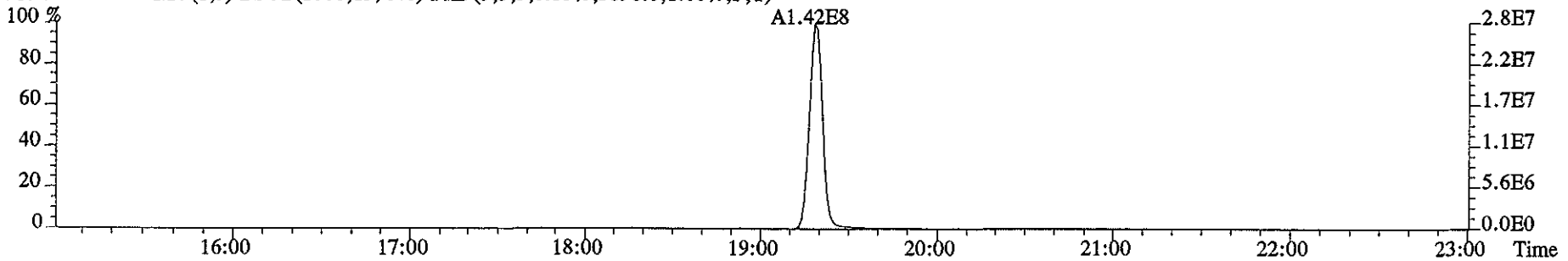
303.9016 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9456.0,1.00%,F,T)



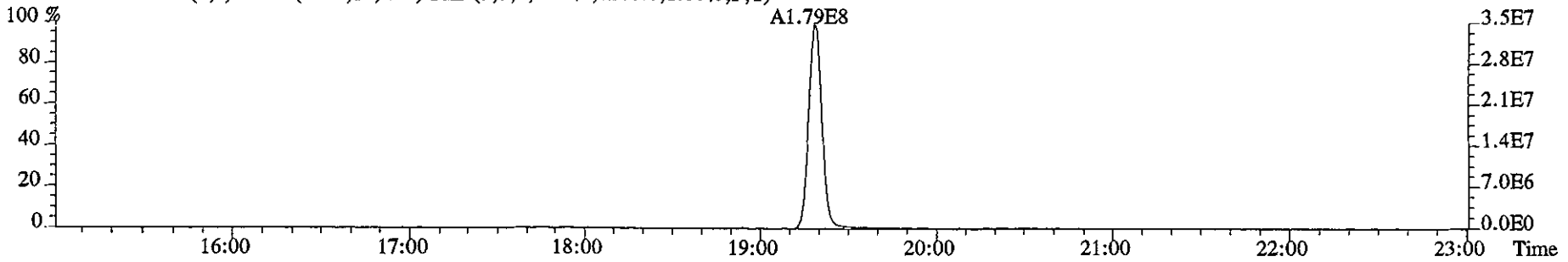
305.8987 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4100.0,1.00%,F,T)



315.9419 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5696.0,1.00%,F,T)

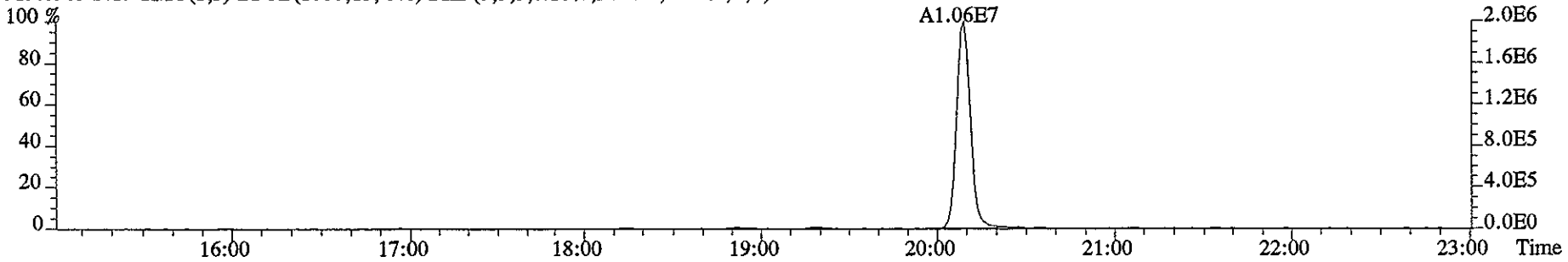


317.9389 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8260.0,1.00%,F,T)

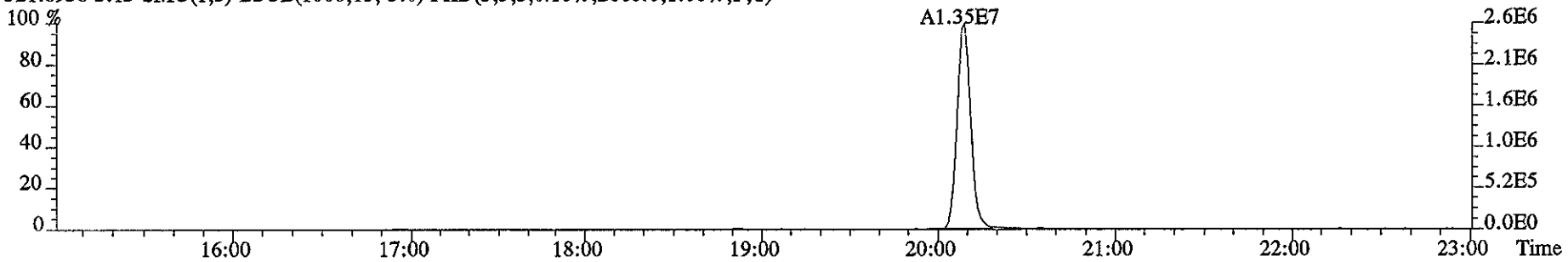


File:07DE104D5 #1-530 Acq: 7-DEC-2010 19:34:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:ST1207A :CS3 10DXN461 Exp:DIOXINRES

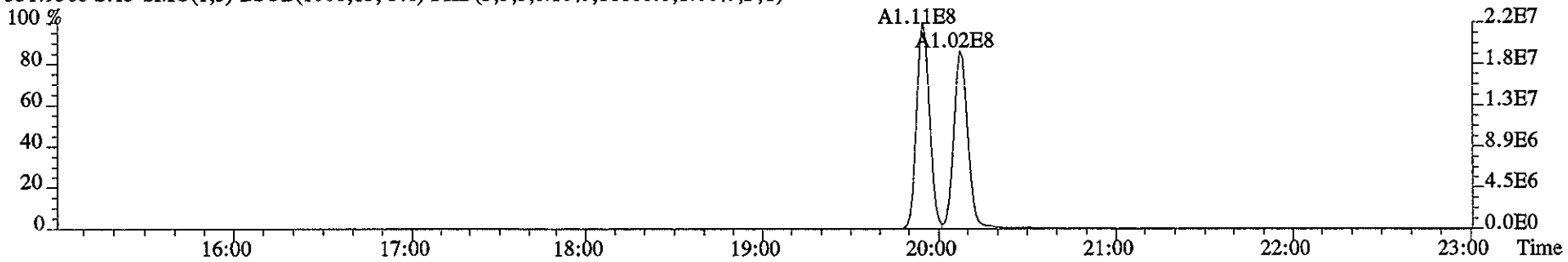
319.8965 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2652.0,1.00%,F,T)



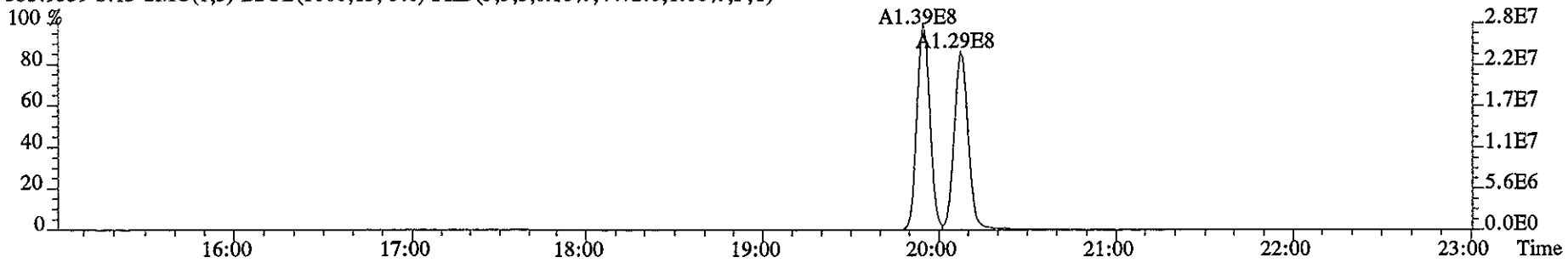
321.8936 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2668.0,1.00%,F,T)



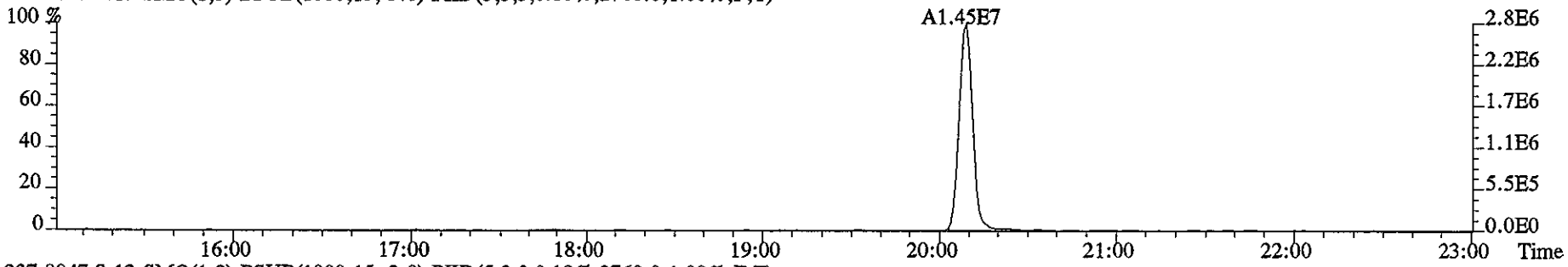
331.9368 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16888.0,1.00%,F,T)



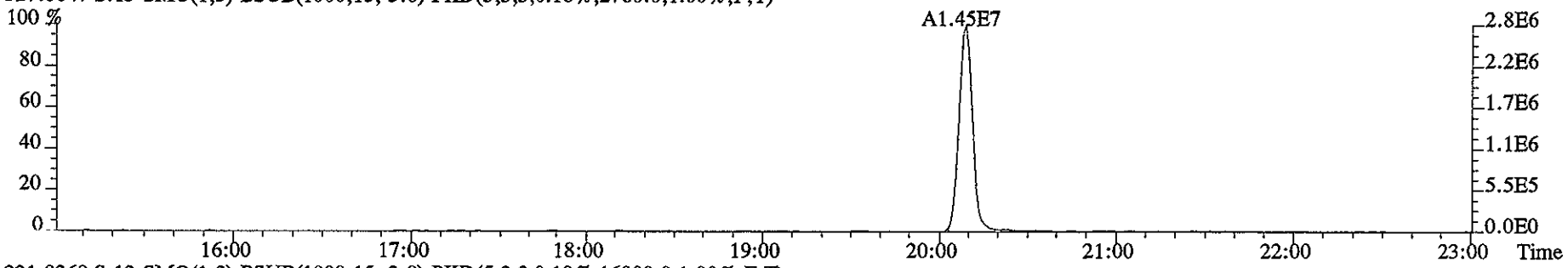
333.9339 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4472.0,1.00%,F,T)



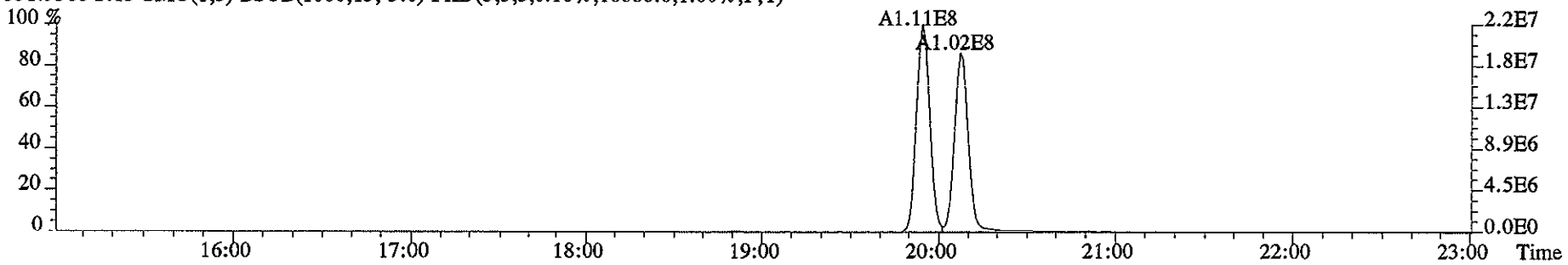
File:07DE104D5 #1-530 Acq: 7-DEC-2010 19:34:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:ST1207A :CS3 10DXN461 Exp:DIOXINRES
327.8847 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2760.0,1.00%,F,T)



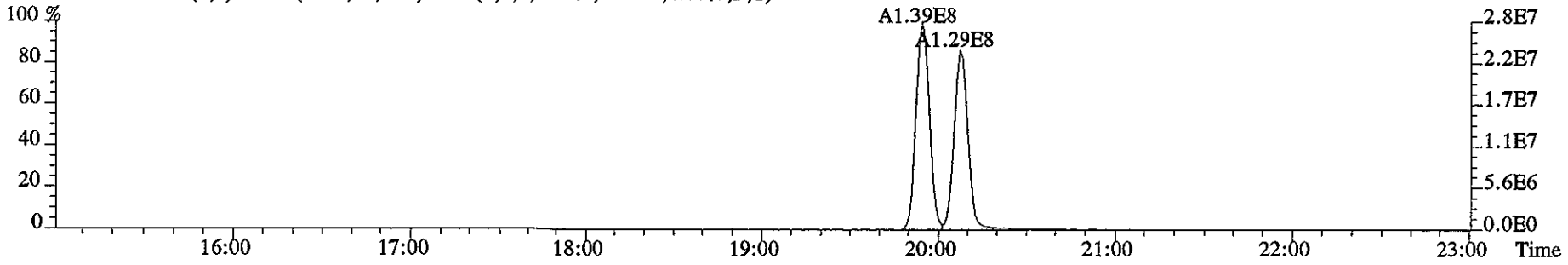
327.8847 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2760.0,1.00%,F,T)



331.9368 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16888.0,1.00%,F,T)

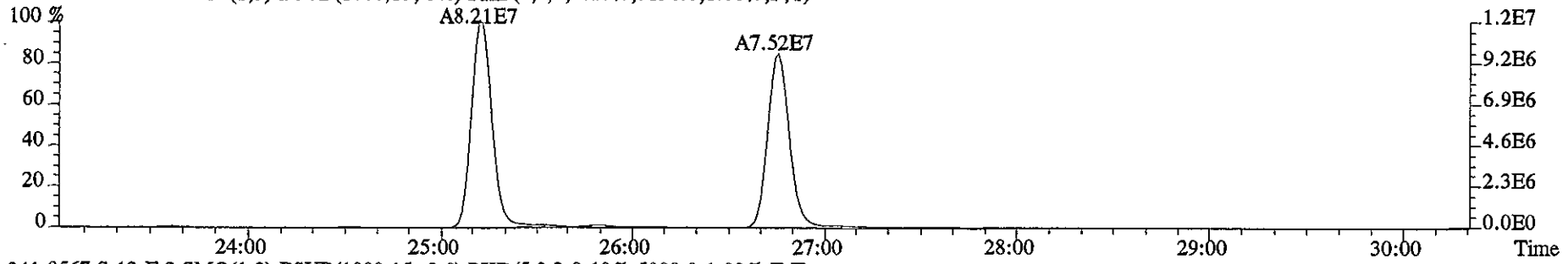


333.9339 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4472.0,1.00%,F,T)

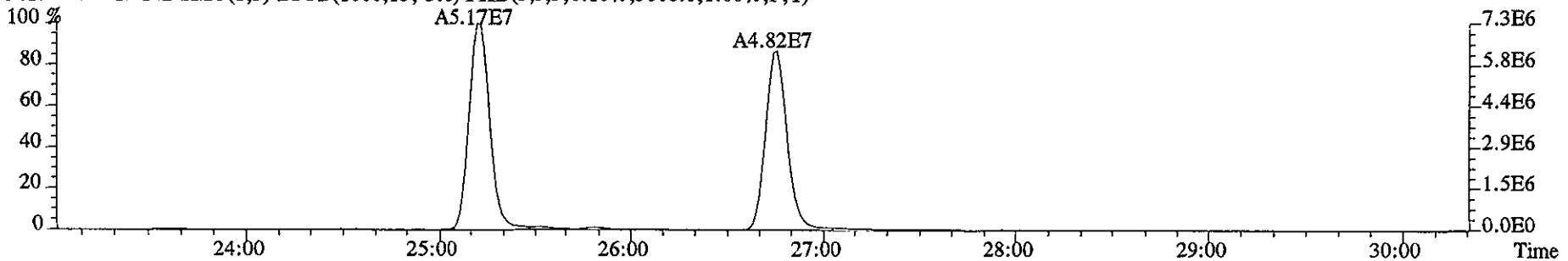


File:07DE104D5 #1-470 Acq: 7-DEC-2010 19:34:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:ST1207A :CS3 10DXN461 Exp:DIOXINRES

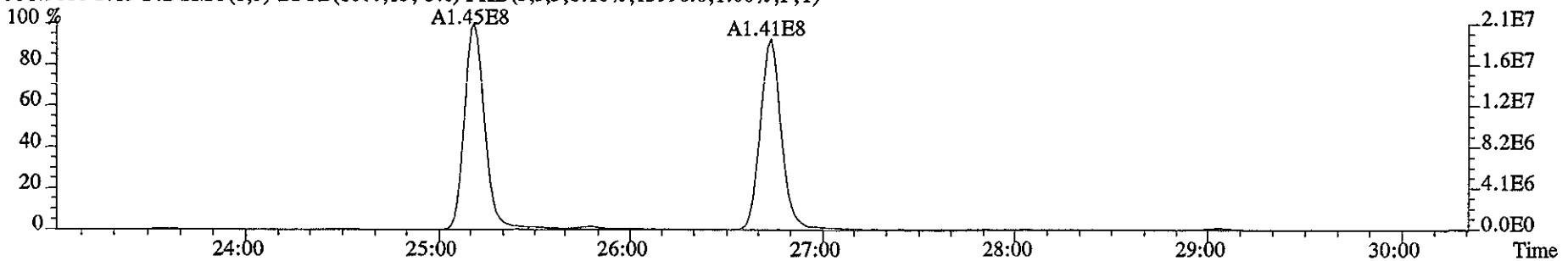
339.8597 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5196.0,1.00%,F,T)



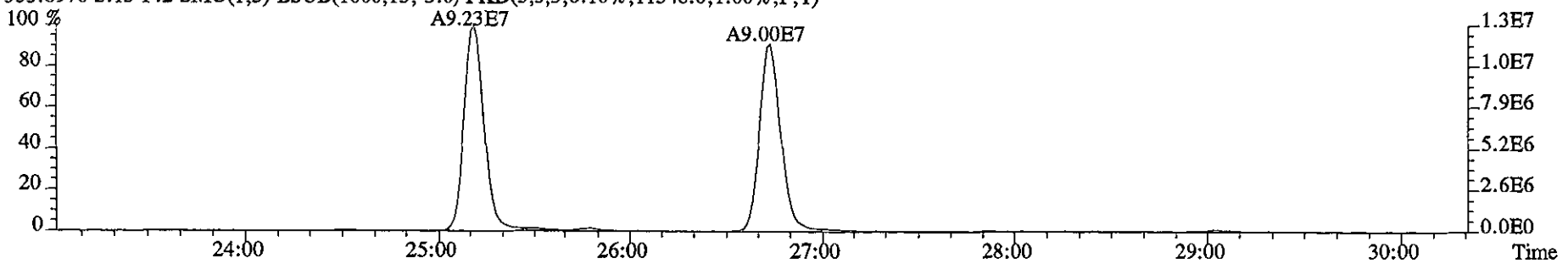
341.8567 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5008.0,1.00%,F,T)



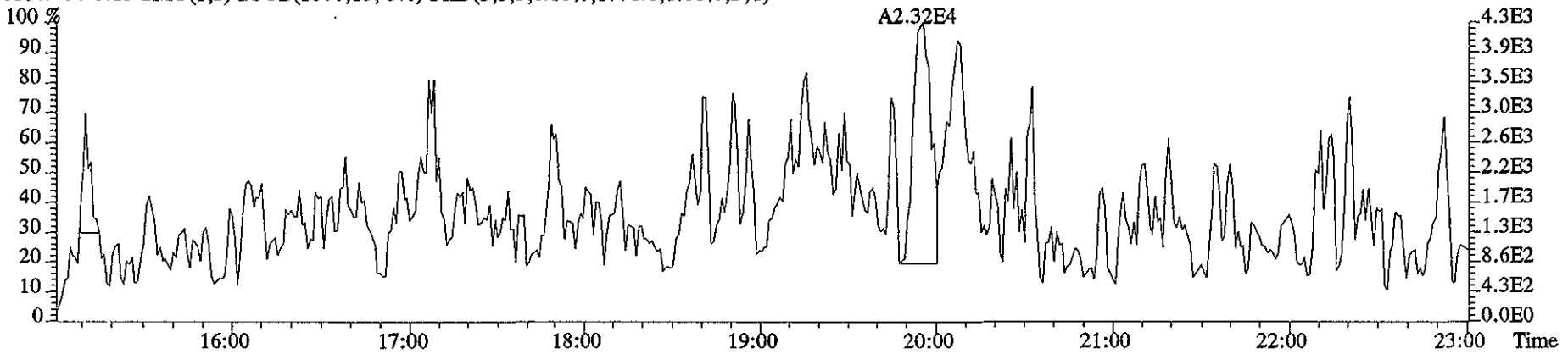
351.9000 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13996.0,1.00%,F,T)



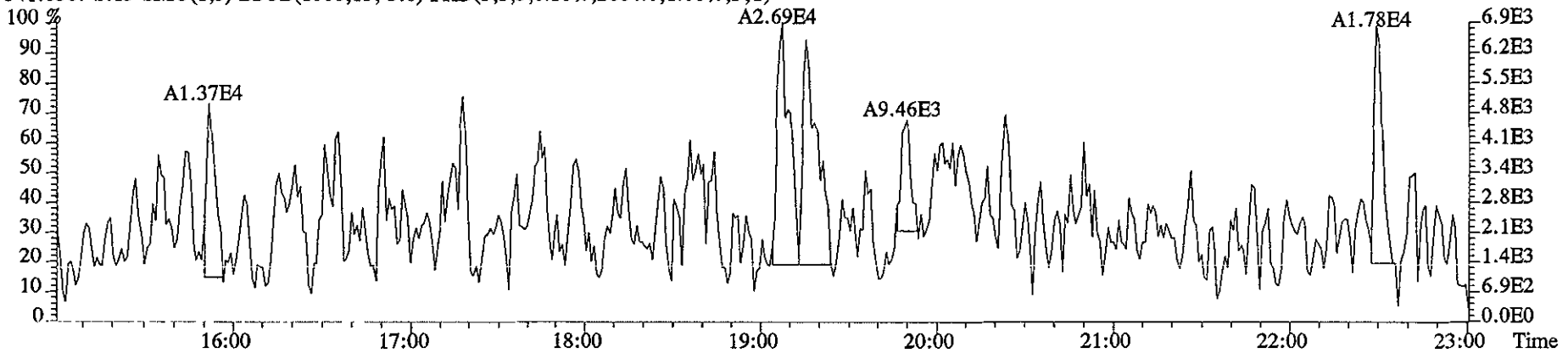
353.8970 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11348.0,1.00%,F,T)



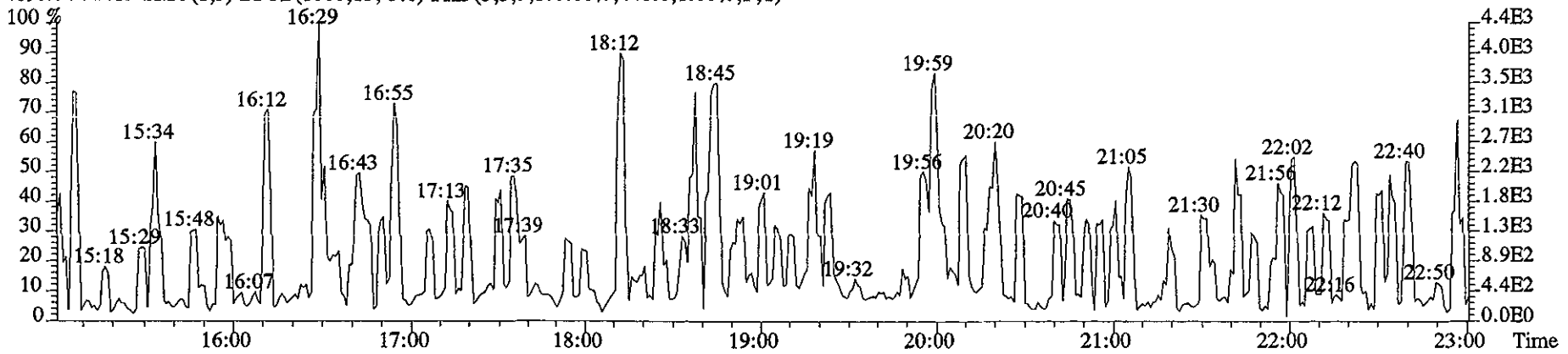
File:07DE104D5 #1-530 Acq: 7-DEC-2010 19:34:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:ST1207A :CS3 10DXN461 Exp:DIOXINRES
339.8597 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1776.0,1.00%,F,T)



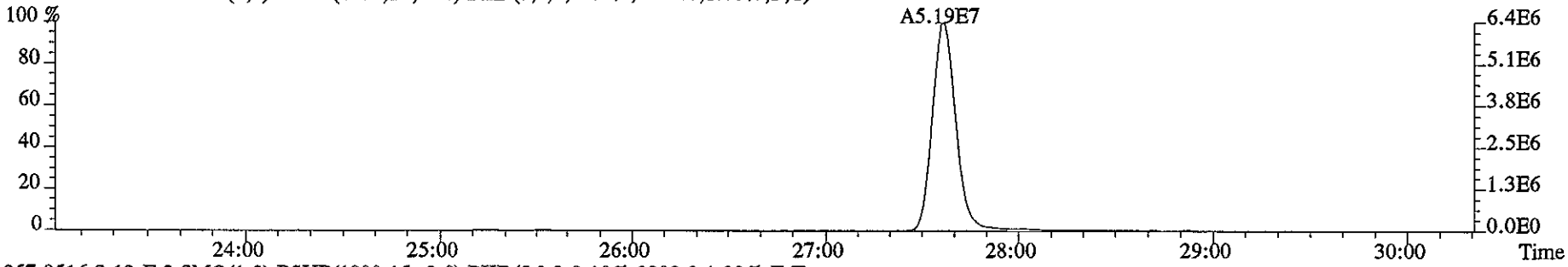
341.8567 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2684.0,1.00%,F,T)



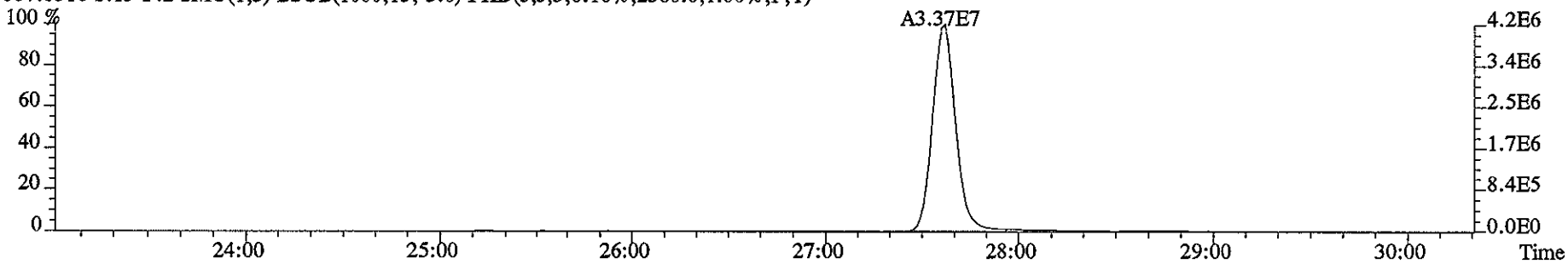
409.7974 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,440.0,1.00%,F,T)



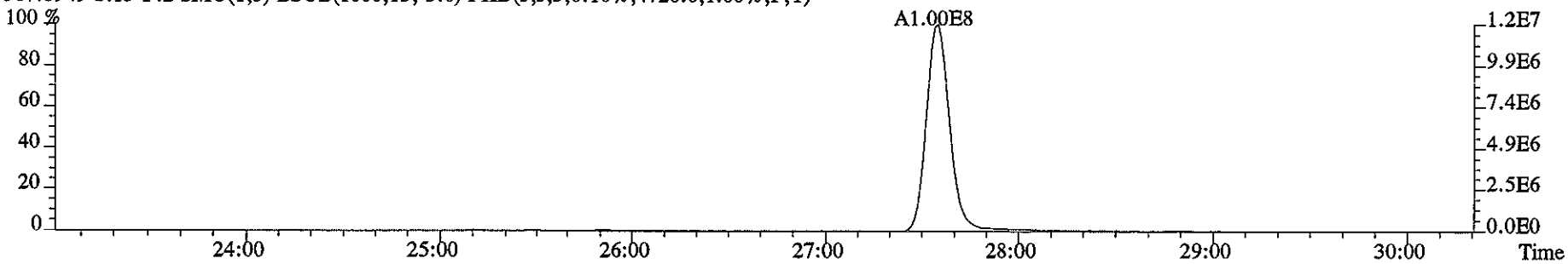
File:07DE104D5 #1-470 Acq: 7-DEC-2010 19:34:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:ST1207A :CS3 10DXN461 Exp:DIOXINRES
355.8546 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4008.0,1.00%,F,T)



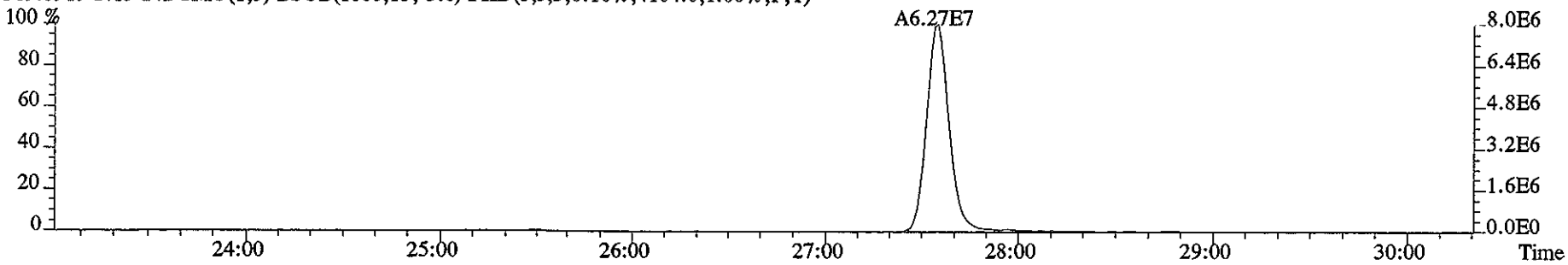
357.8516 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2380.0,1.00%,F,T)



367.8949 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4728.0,1.00%,F,T)

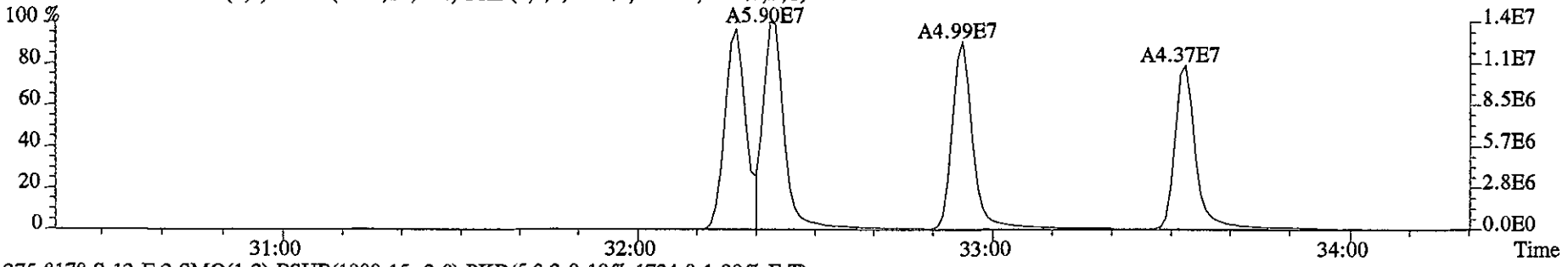


369.8919 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4104.0,1.00%,F,T)

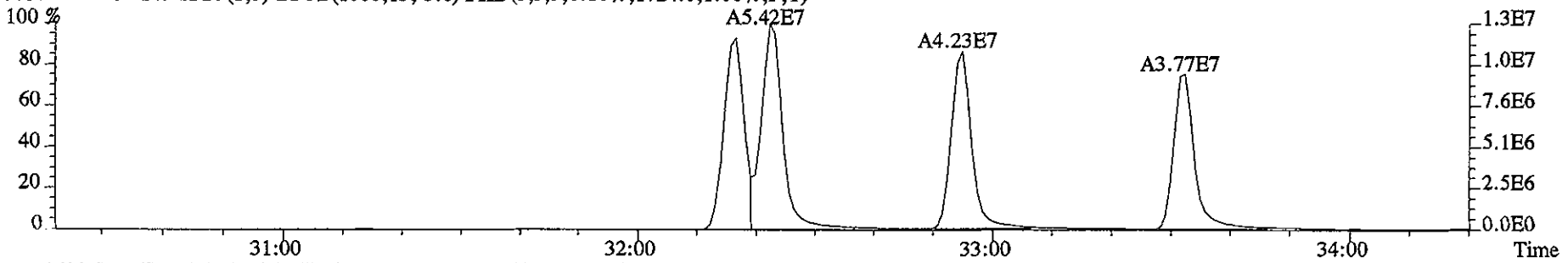


File:07DE104D5 #1-286 Acq: 7-DEC-2010 19:34:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:ST1207A :CS3 10DXN461 Exp:DIOXINRES

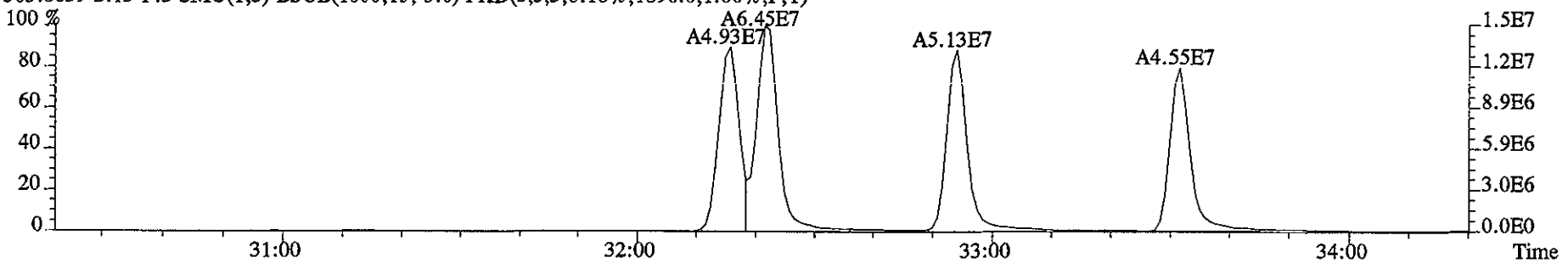
373.8208 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1812.0,1.00%,F,T)



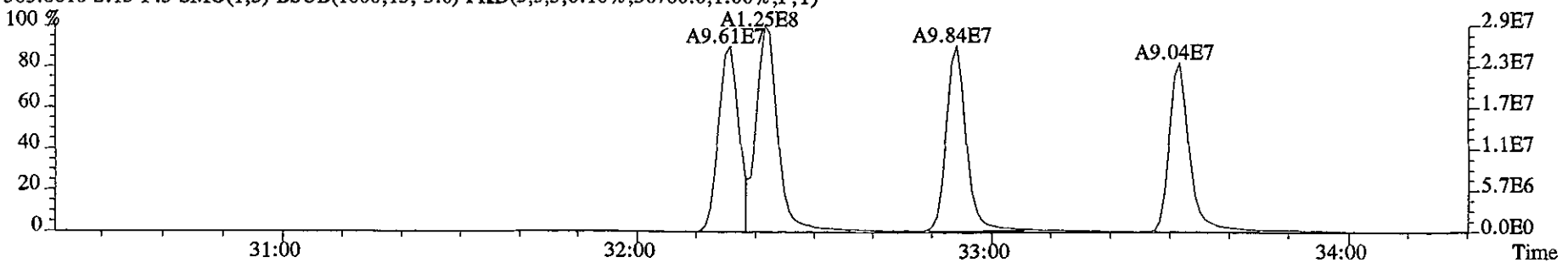
375.8178 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1724.0,1.00%,F,T)



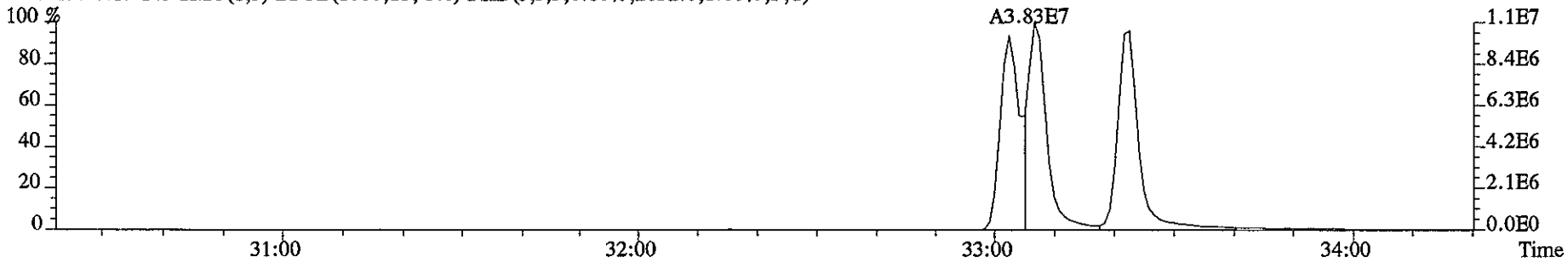
383.8639 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1896.0,1.00%,F,T)



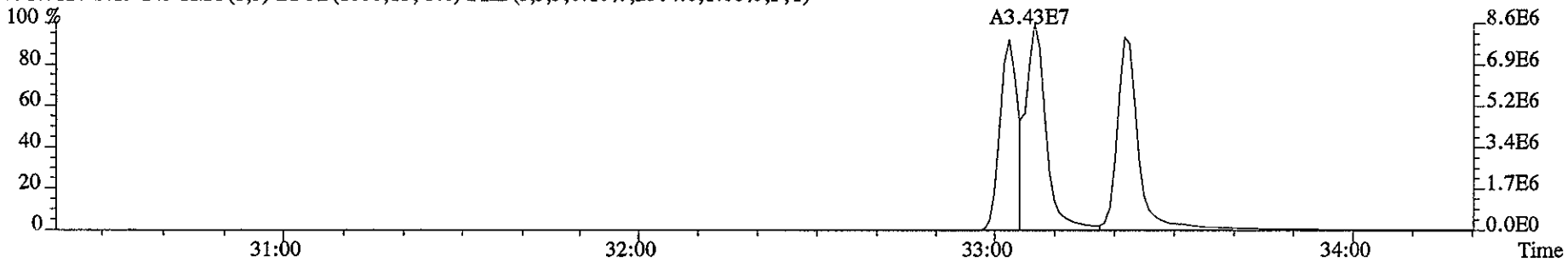
385.8610 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,36780.0,1.00%,F,T)



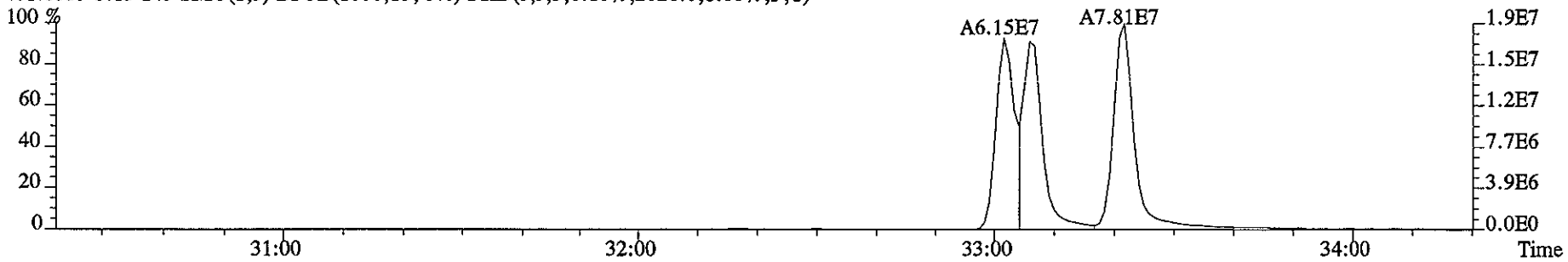
File:07DE104D5 #1-286 Acq: 7-DEC-2010 19:34:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:ST1207A :CS3 10DXN461 Exp:DIOXINRES
389.8157 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2032.0,1.00%,F,T)



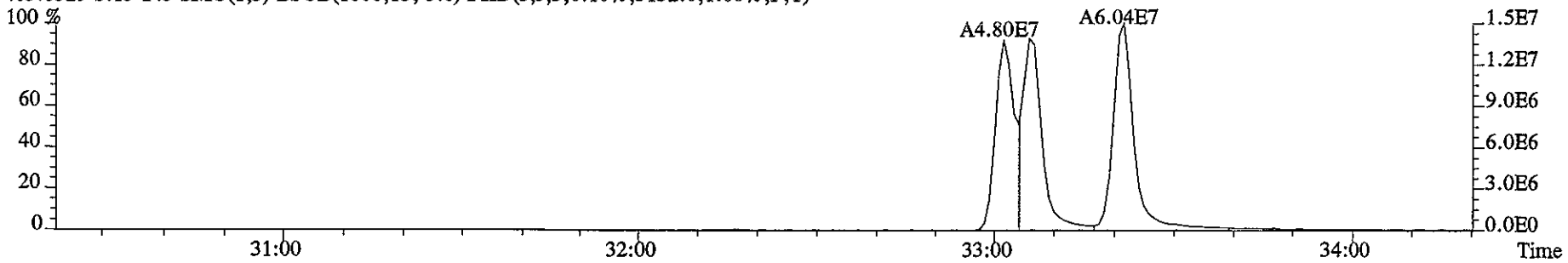
391.8127 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2504.0,1.00%,F,T)



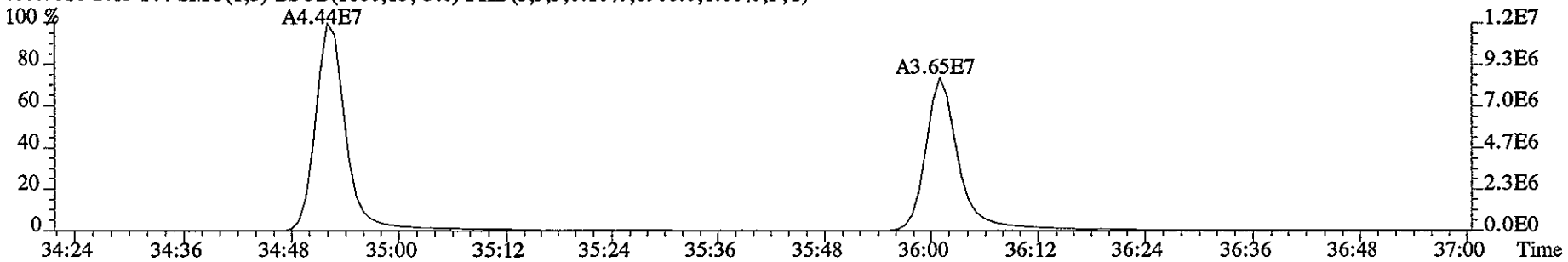
401.8559 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2028.0,1.00%,F,T)



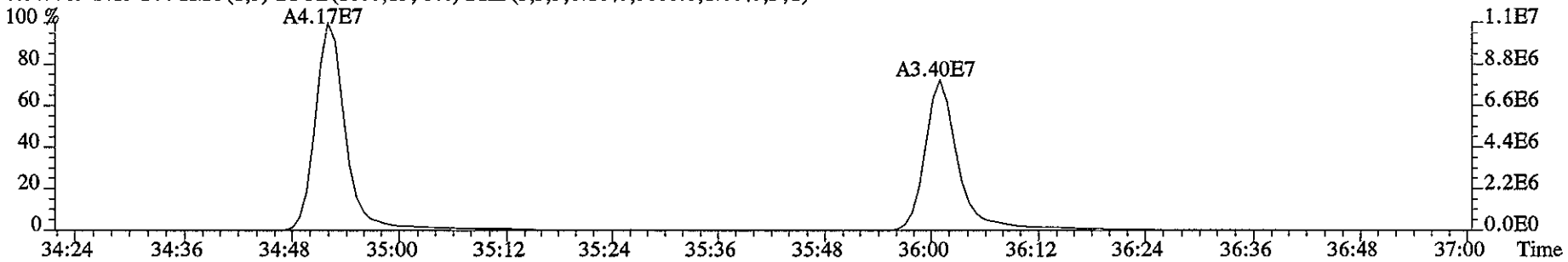
403.8529 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3132.0,1.00%,F,T)



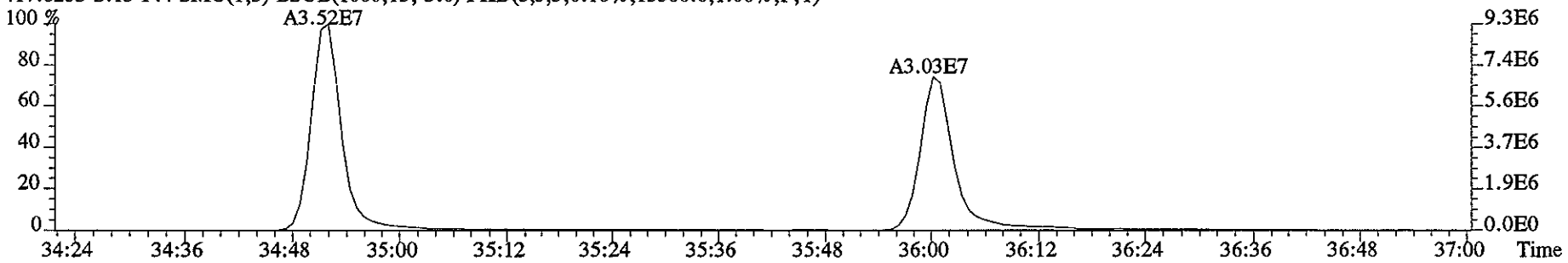
File:07DE104D5 #1-201 Acq: 7-DEC-2010 19:34:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:ST1207A :CS3 10DXN461 Exp:DIOXINRES
407.7818 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8908.0,1.00%,F,T)



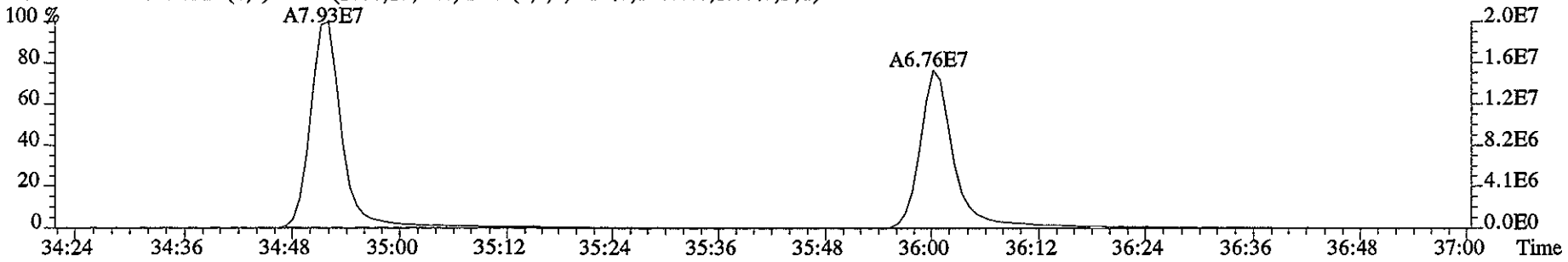
409.7789 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5888.0,1.00%,F,T)



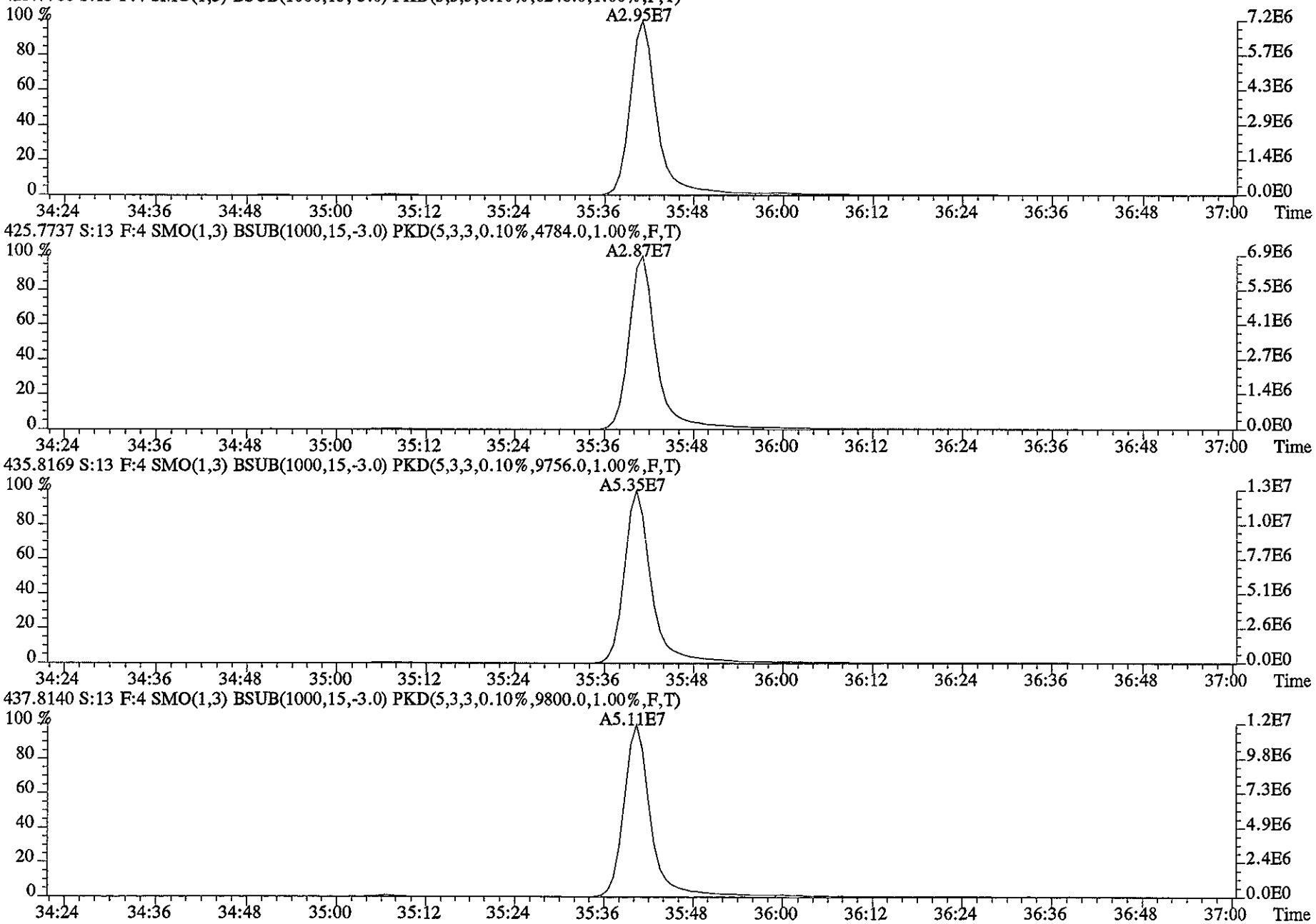
417.8253 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15500.0,1.00%,F,T)



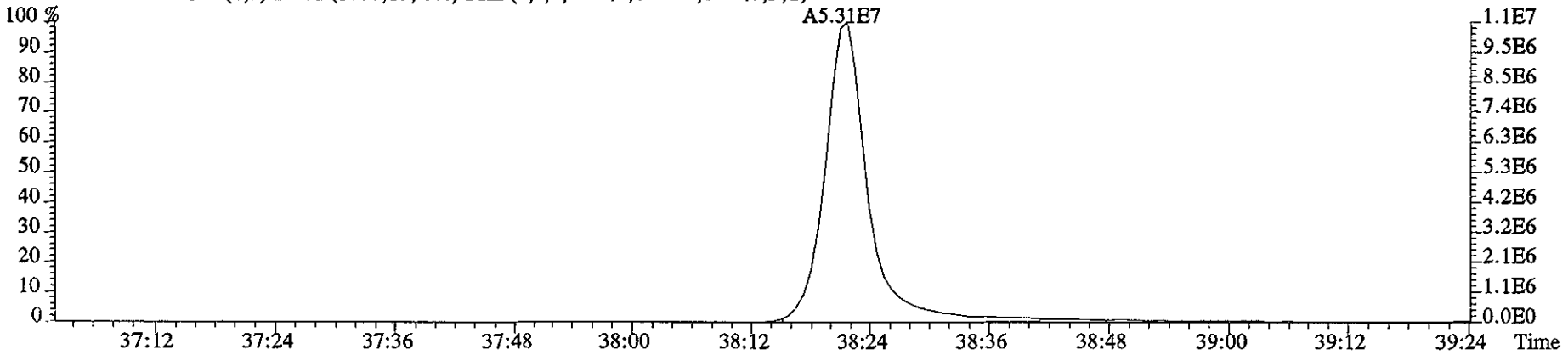
419.8220 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14400.0,1.00%,F,T)



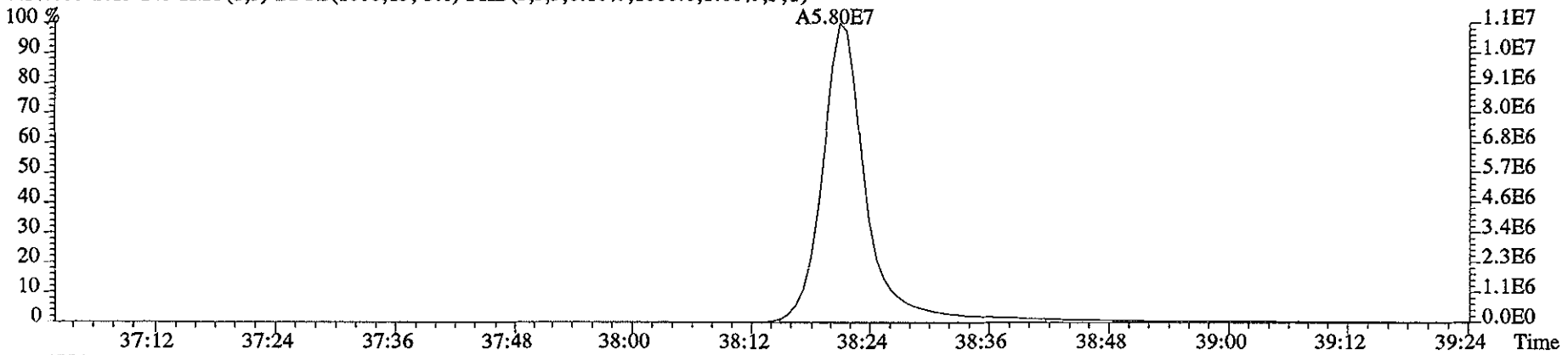
File:07DE104D5 #1-201 Acq: 7-DEC-2010 19:34:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:ST1207A :CS3 10DXN461 Exp:DIOXINRES



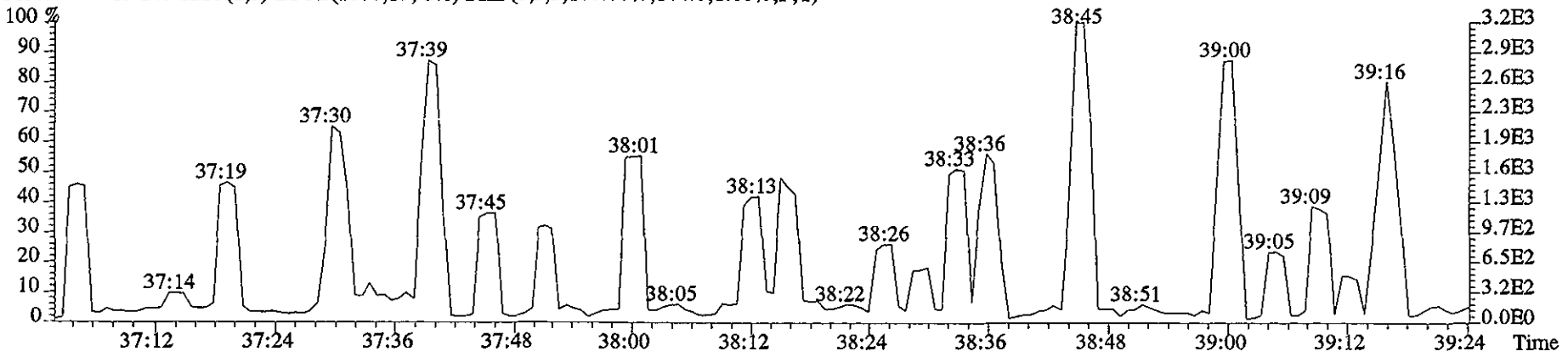
File:07DE104D5 #1-192 Acq: 7-DEC-2010 19:34:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:ST1207A :CS3 10DXN461 Exp:DIOXINRES
441.7428 S:13 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1164.0,1.00%,F,T)



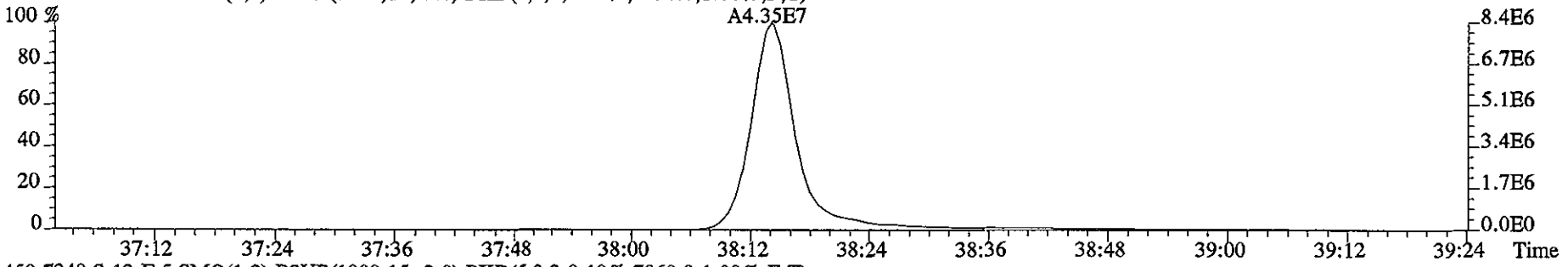
443.7399 S:13 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1880.0,1.00%,F,T)



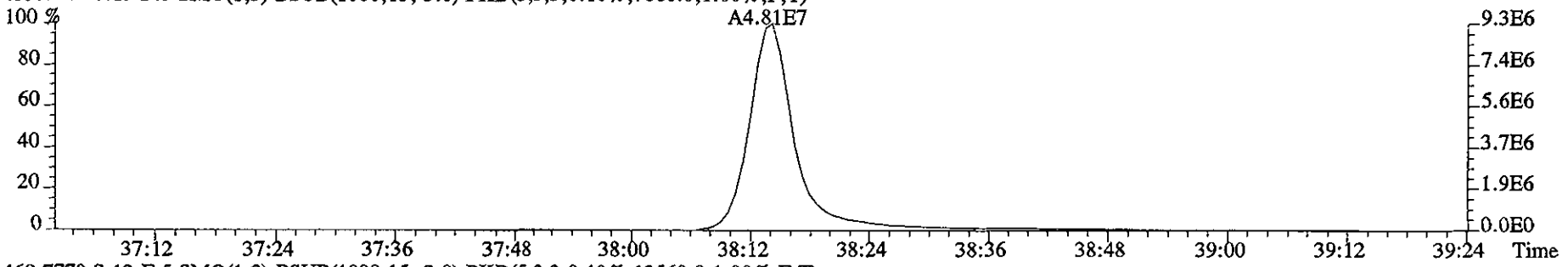
513.6775 S:13 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,164.0,1.00%,F,T)



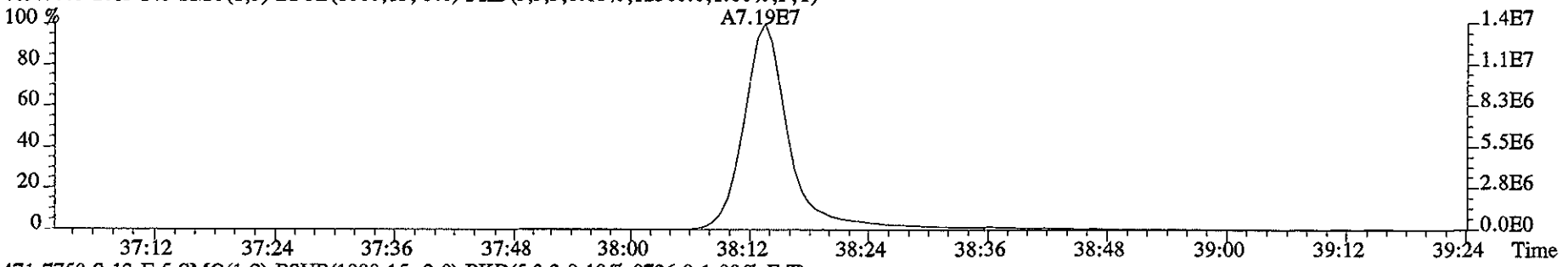
File:07DE104D5 #1-192 Acq: 7-DEC-2010 19:34:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:ST1207A :CS3 10DXN461 Exp:DIOXINRES
457.7377 S:13 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4992.0,1.00%,F,T)



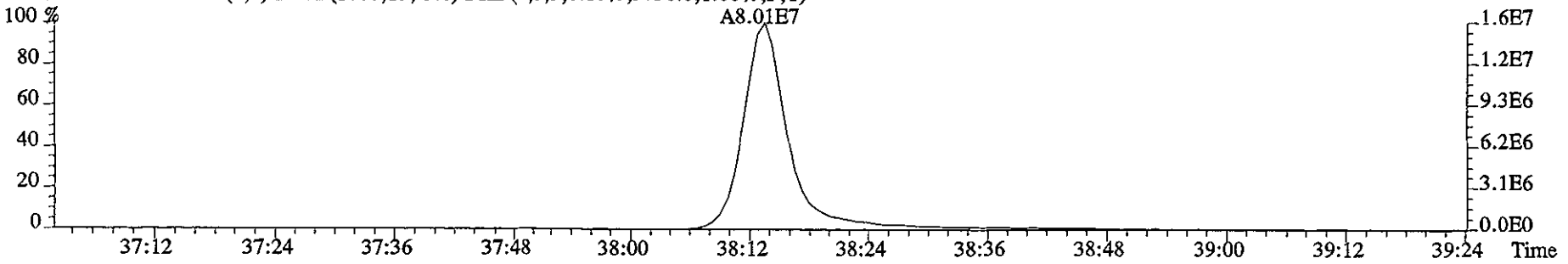
459.7348 S:13 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7860.0,1.00%,F,T)



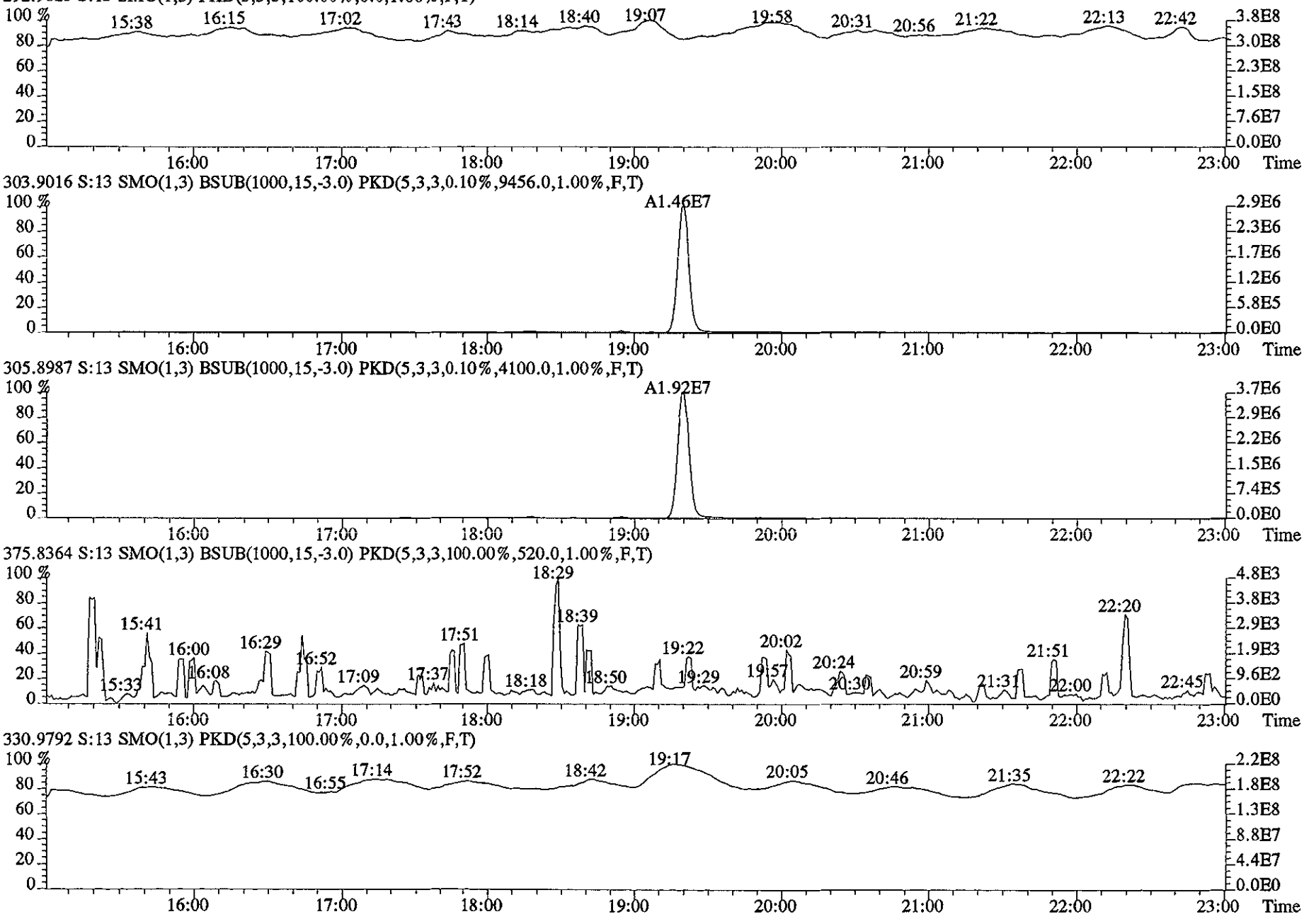
469.7779 S:13 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12560.0,1.00%,F,T)



471.7750 S:13 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9736.0,1.00%,F,T)

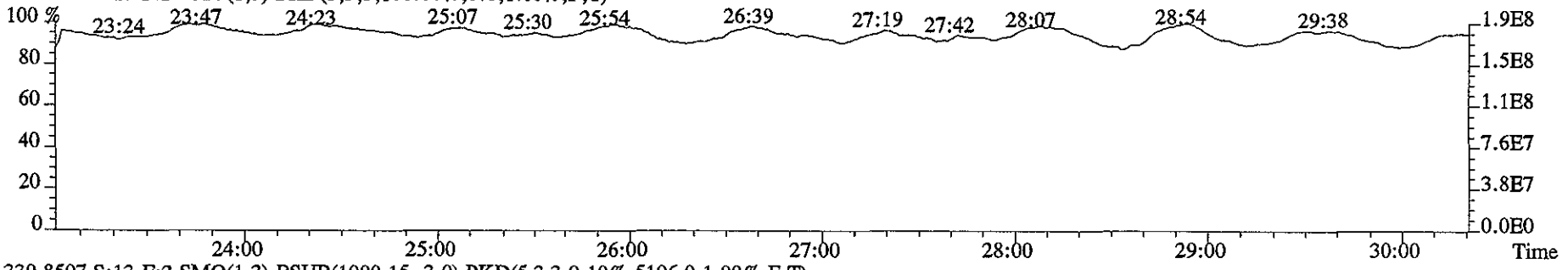


File:07DE104D5 #1-530 Acq: 7-DEC-2010 19:34:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:ST1207A :CS3 10DXN461 Exp:DIOXINRES

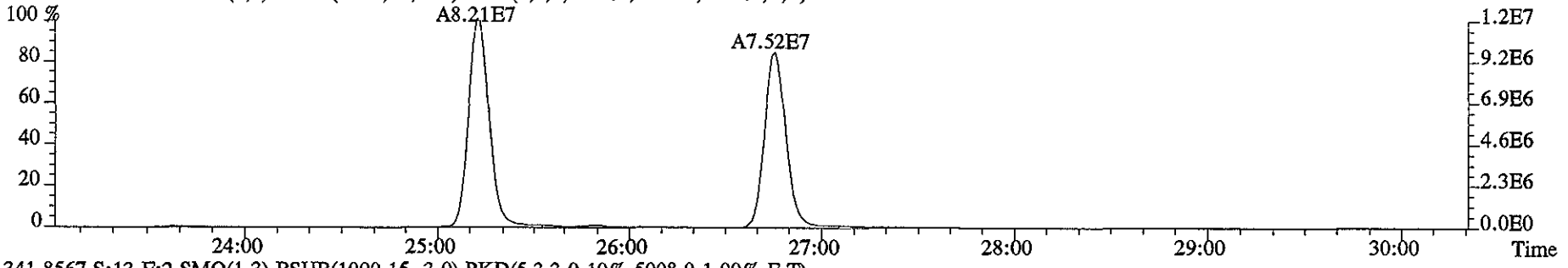


File:07DE104D5 #1-470 Acq: 7-DEC-2010 19:34:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:ST1207A :CS3 10DXN461 Exp:DIOXINRES

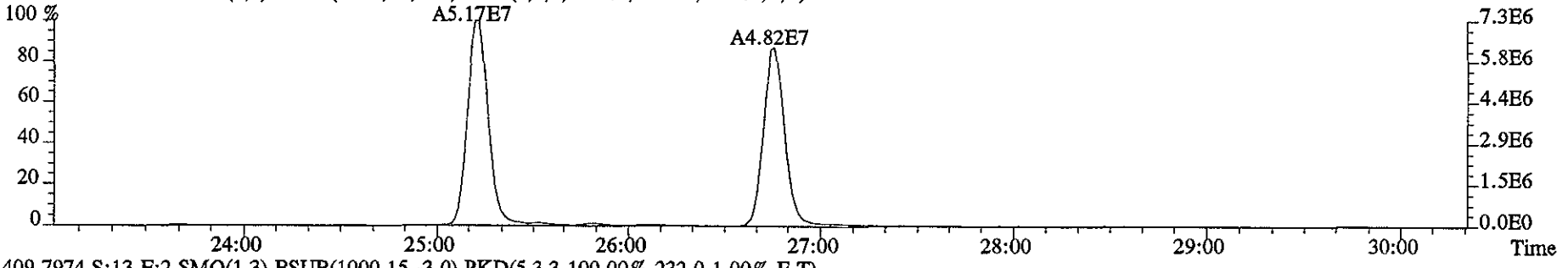
342.9792 S:13 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



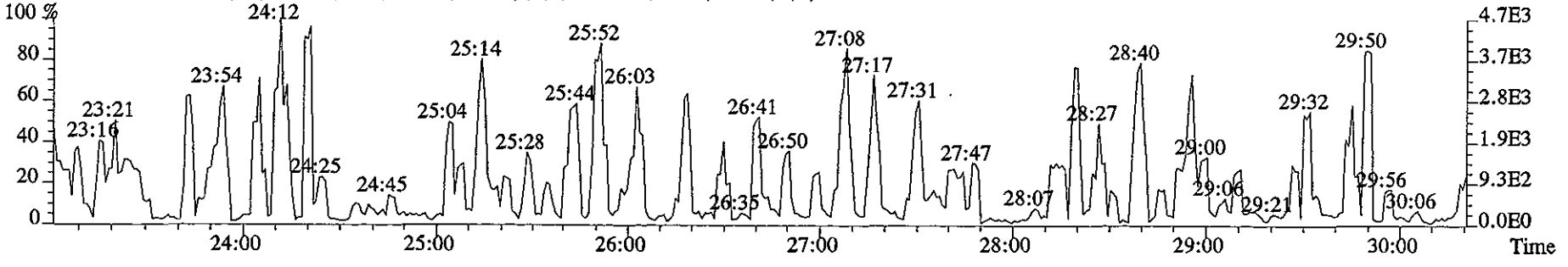
339.8597 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5196.0,1.00%,F,T)



341.8567 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5008.0,1.00%,F,T)

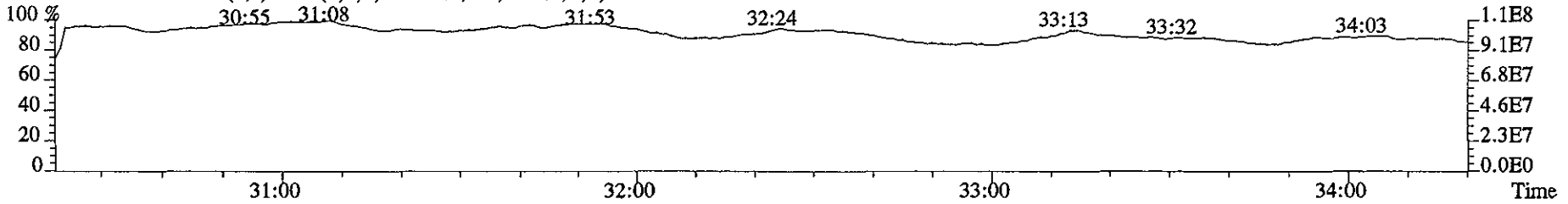


409.7974 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,232.0,1.00%,F,T)

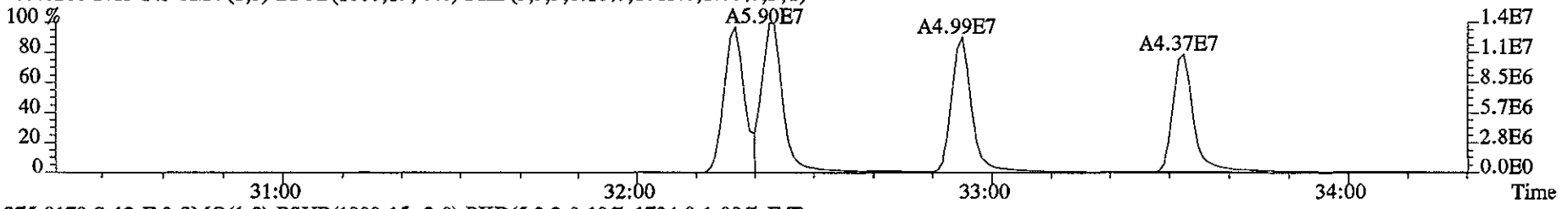


File:07DE104D5 #1-286 Acq: 7-DEC-2010 19:34:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:ST1207A :CS3 10DXN461 Exp:DIOXINRES

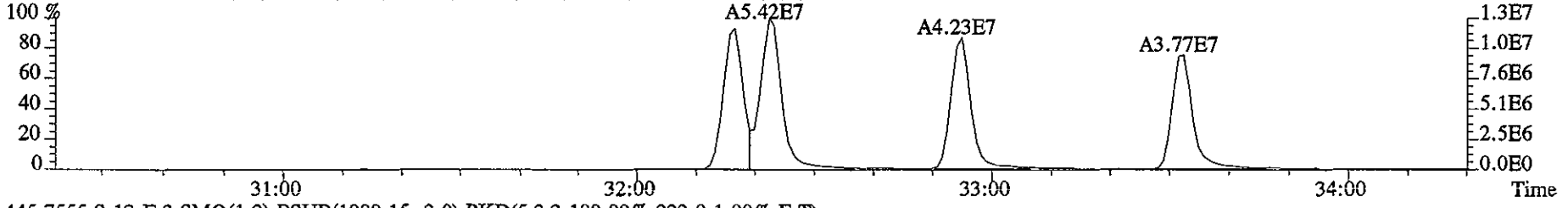
392.9760 S:13 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



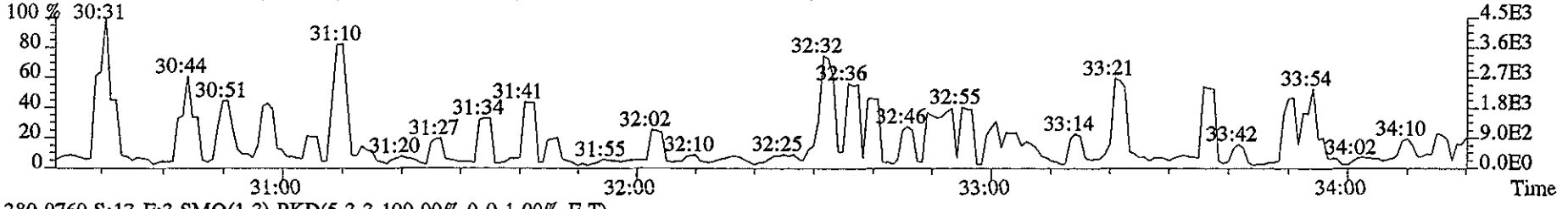
373.8208 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1812.0,1.00%,F,T)



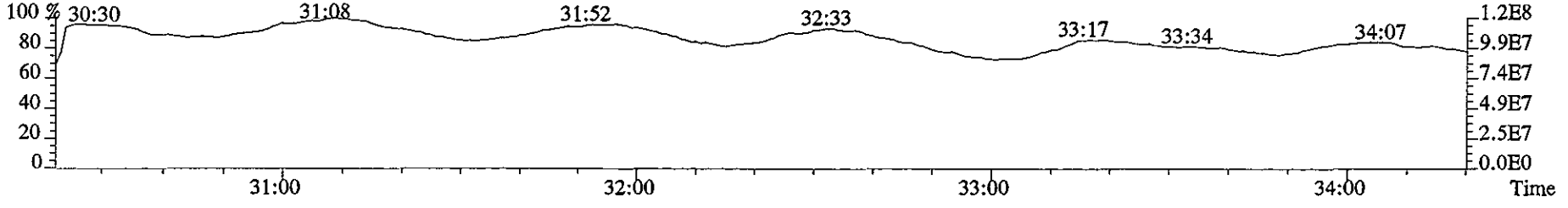
375.8178 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1724.0,1.00%,F,T)



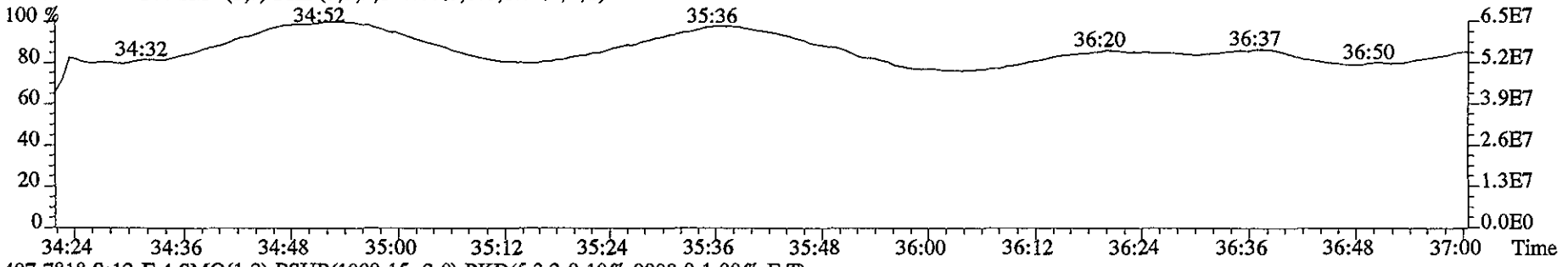
445.7555 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,332.0,1.00%,F,T)



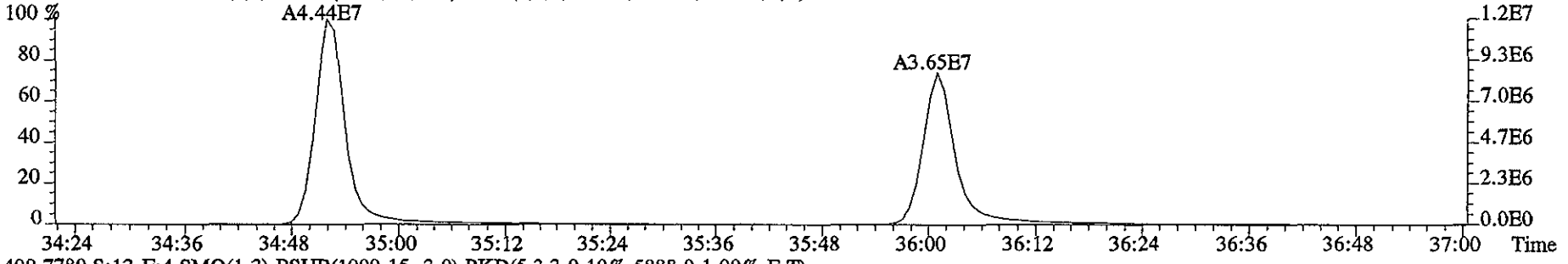
380.9760 S:13 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



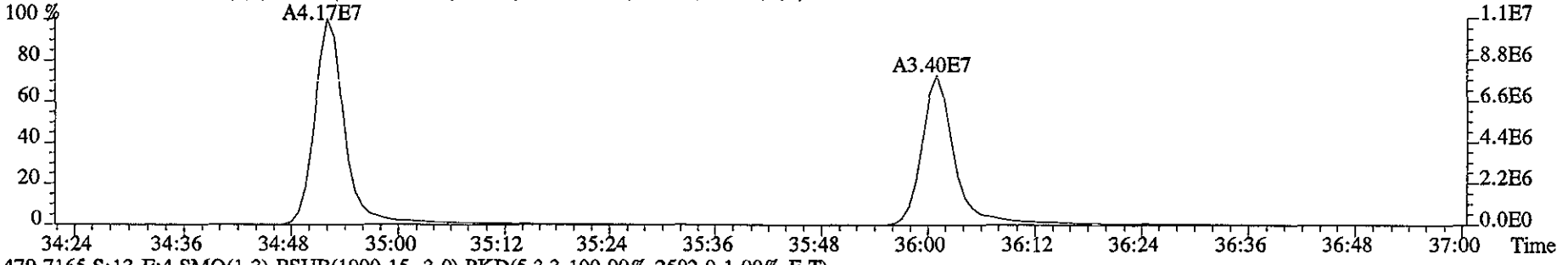
File:07DE104D5 #1-201 Acq: 7-DEC-2010 19:34:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:ST1207A :CS3 10DXN461 Exp:DIOXINRES
430.9728 S:13 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



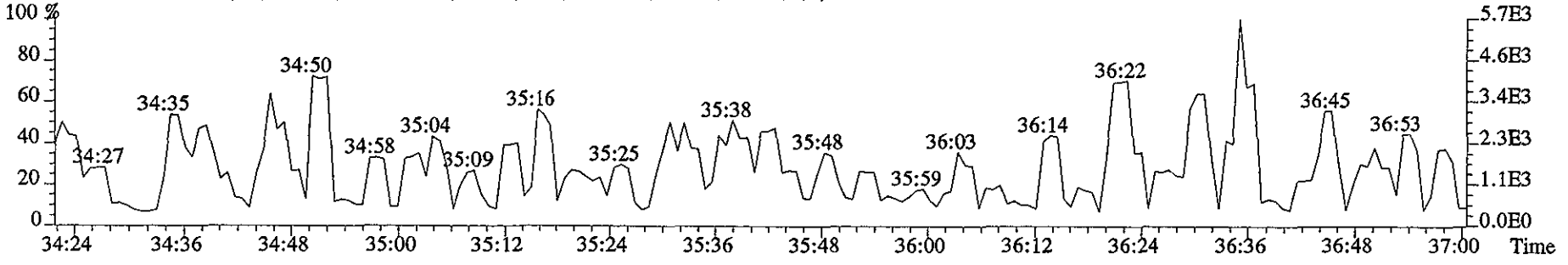
407.7818 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8908.0,1.00%,F,T)



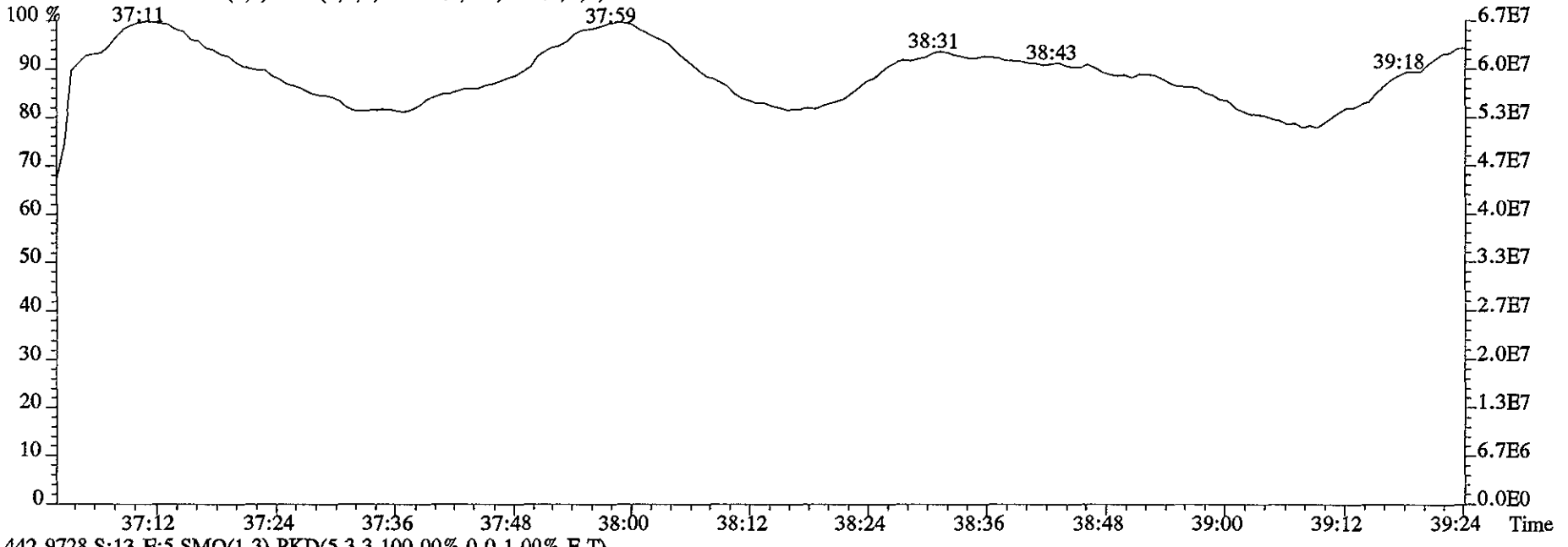
409.7789 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5888.0,1.00%,F,T)



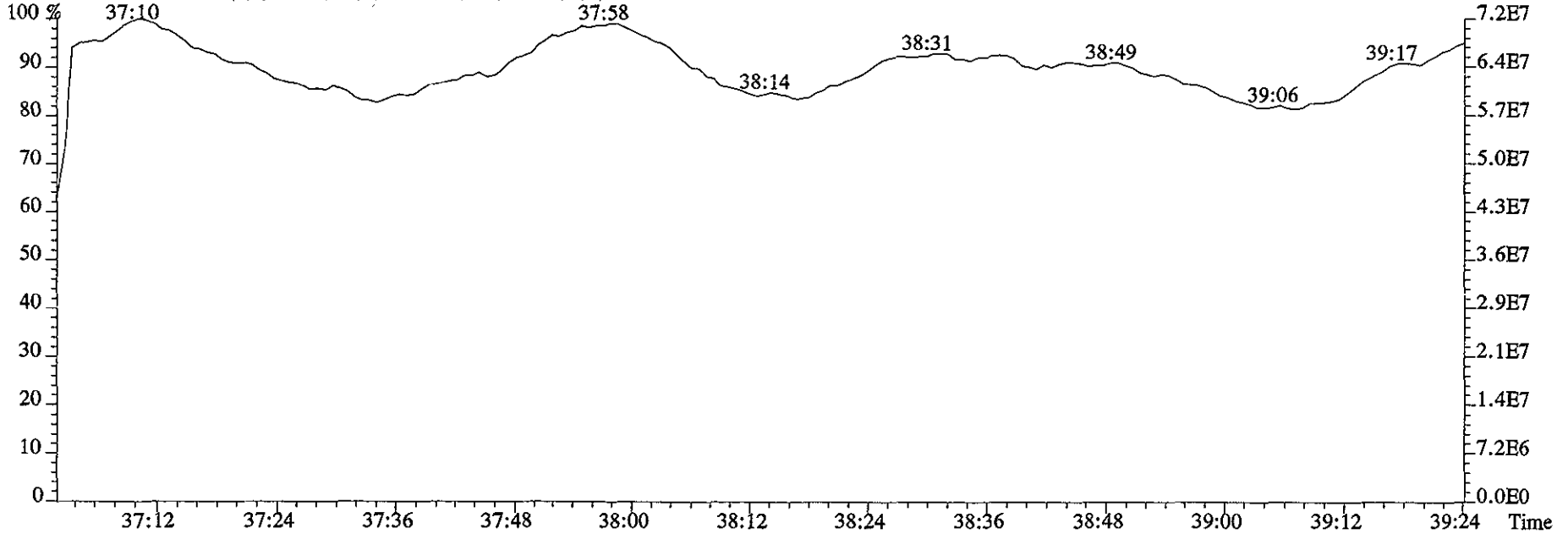
479.7165 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2592.0,1.00%,F,T)



File:07DE104D5 #1-192 Acq: 7-DEC-2010 19:34:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:ST1207A :CS3 10DXN461 Exp:DIOXINRES
454.9728 S:13 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:13 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



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Daily Calibration Checklist
Dioxin Methods

Method ID T09 **Associated ICAL** T09 072110 4D5

Column ID DB5 **Instrument ID** 4D5

STD ID ST1207B, ST1207C **STD Solution** 10 DXN461

Analyzed by AB **Date Analyzed** 12-07-10 & 12-08-10

Std. Pkg. By AB **Date Std. Pkg. Assembled** 12-08-10

Std. Pkg. Reviewed By NK **Date Std. Pkg. Reviewed** 12-08-10

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?	✓	✓
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 std: ST1207C > 20% D for 1,2,3,6,7,8-HxCDF < 25% D Use Avg. RRF = 1.54 see NCM # 07-01177744

* **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: ST1207B File text: ST1207B :CS3 10DXN461
Run #13 Filename 07DE104D5 S: 15 I: 1
Acquired: 7-DEC-10 21:03:21 Processed: 8-DEC-10 07:53:22
Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D5TO9

Name	Resp	RA		RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	222813352	0.80	y	19:55	-	100.00	-	n
13C-2,3,7,8-TCDF	314538272	0.80	y	19:19	1.41	100.00	14.8	n
2,3,7,8-TCDF	32931696	0.79	y	19:19	1.05	10.00	5.3	n
Total TCDF	33414827	0.95	n	18:17	1.05	10.00	5.3	n
13C-2,3,7,8-TCDD	215938592	0.79	y	20:07	0.97	100.00	7.1	n
2,3,7,8-TCDD	22726580	0.76	y	20:09	1.05	10.00	7.0	n
Total TCDD	23073246	2.72	n	16:57	1.05	10.00	7.0	n
37Cl-2,3,7,8-TCDD	27974458	1.00	y	20:09	1.30	10.00	-2.3	n
13C-1,2,3,7,8-PeCDF	222146680	1.56	y	25:11	1.00	100.00	13.8	n
1,2,3,7,8-PeCDF	125461396	1.57	y	25:12	1.13	50.00	4.9	n
2,3,4,7,8-PeCDF	114999028	1.56	y	26:46	1.04	50.00	-1.0	n
Total F2 PeCDF	244988586	1.35	y	23:37	1.08	100.00	2.0	n
Total F1 PeCDF	*	*	n	NotFnd	1.08	100.00	2.0	n
13C-1,2,3,7,8-PeCDD	147739076	1.63	y	27:35	0.66	100.00	0.3	n
1,2,3,7,8-PeCDD	79040572	1.54	y	27:37	1.07	50.00	15.6	n
Total PeCDD	79114248	1.30	n	25:31	1.07	50.00	15.6	n
13C-1,2,3,7,8,9-HxCDD	122475976	1.28	y	33:22	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	124413440	0.51	y	32:16	1.02	100.00	-2.8	n
1,2,3,4,7,8-HxCDF	81165036	1.22	y	32:17	1.30	50.00	7.2	n
1,2,3,6,7,8-HxCDF	95426936	1.11	y	32:22	1.53	50.00	19.7	n
2,3,4,6,7,8-HxCDF	80268920	1.16	y	32:55	1.29	50.00	4.6	n
1,2,3,7,8,9-HxCDF	71363172	1.18	y	33:33	1.15	50.00	4.5	n
Total HxCDF	328448576	1.18	y	31:14	1.32	200.00	9.2	n
13C-1,2,3,6,7,8-HxCDD	106880300	1.28	y	33:06	0.87	100.00	5.0	n
1,2,3,4,7,8-HxCDD	48862404	1.21	y	33:02	0.91	50.00	-11.8	n
1,2,3,6,7,8-HxCDD	69052934	1.25	y	33:07	1.29	50.00	11.1	n
1,2,3,7,8,9-HxCDD	66200664	1.25	y	33:23	1.24	50.00	4.8	n
Total HxCDD	184116002	1.21	y	33:02	1.15	150.00	1.9	n
13C-1,2,3,4,6,7,8-HpCDF	101045982	0.44	y	34:52	0.83	100.00	-9.3	n
1,2,3,4,6,7,8-HpCDF	75200028	1.08	y	34:53	1.49	50.00	10.6	n
1,2,3,4,7,8,9-HpCDF	61853490	1.07	y	36:01	1.22	50.00	12.0	n
Total HpCDF	137972790	1.08	y	34:53	1.36	100.00	11.2	n
13C-1,2,3,4,6,7,8-HpCDD	90357272	1.06	y	35:40	0.74	100.00	-10.7	n
1,2,3,4,6,7,8-HpCDD	50075074	1.04	y	35:41	1.11	50.00	3.4	n
Total HpCDD	50371855	0.85	n	35:08	1.11	50.00	3.4	n
13C-OCDD	127514060	0.91	y	38:15	0.52	200.00	-16.0	n
OCDF	96263948	0.91	y	38:22	1.51	100.00	10.2	n
OCDD	77970416	0.91	y	38:15	1.22	100.00	2.0	n

Run text: ST1207C File text: ST1207C :CS3 10DXN461
Run #17 Filename 07DE104D5 S: 29 I: 1
Acquired: 8-DEC-10 07:26:46 Processed: 8-DEC-10 09:00:36
Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D5TO9

Name	Resp	RA		RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	213215496	0.81	y	19:55	-	100.00	-	n
13C-2,3,7,8-TCDF	287925320	0.81	y	19:19	1.35	100.00	9.8	n
2,3,7,8-TCDF	30076573	0.78	y	19:20	1.04	10.00	5.0	n
Total TCDF	30671972	0.76	y	18:17	1.04	10.00	5.0	n
13C-2,3,7,8-TCDD	208175384	0.81	y	20:07	0.98	100.00	7.9	n
2,3,7,8-TCDD	21961753	0.77	y	20:09	1.05	10.00	7.3	n
Total TCDD	22094651	0.73	y	18:51	1.05	10.00	7.3	n
37Cl-2,3,7,8-TCDD	27137796	1.00	y	20:09	1.30	10.00	-1.7	n
13C-1,2,3,7,8-PeCDF	207097944	1.58	y	25:11	0.97	100.00	10.9	n
1,2,3,7,8-PeCDF	117000700	1.59	y	25:13	1.13	50.00	4.9	n
2,3,4,7,8-PeCDF	108287168	1.57	y	26:46	1.05	50.00	0.0	n
Total F2 PeCDF	227153762	1.96	n	23:36	1.09	100.00	2.5	n
Total F1 PeCDF	*	*	n	NotFnd	1.09	100.00	2.5	n
13C-1,2,3,7,8-PeCDD	135549800	1.67	y	27:34	0.64	100.00	-3.8	n
1,2,3,7,8-PeCDD	73941266	1.53	y	27:37	1.09	50.00	17.9	n
Total PeCDD	73941266	1.53	y	27:37	1.09	50.00	17.9	n
13C-1,2,3,7,8,9-HxCDD	113121160	1.26	y	33:22	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	110690792	0.50	y	32:16	0.98	100.00	-6.3	n
1,2,3,4,7,8-HxCDF	71835186	1.21	y	32:17	1.30	50.00	6.6	n
1,2,3,6,7,8-HxCDF	85814208	1.10	y	32:22	1.55	50.00	21.0	n ↑
2,3,4,6,7,8-HxCDF	76426872	1.14	y	32:55	1.38	50.00	12.0	n
1,2,3,7,8,9-HxCDF	65754280	1.15	y	33:32	1.19	50.00	8.2	n
Total HxCDF	299974778	0.85	n	31:13	1.35	200.00	12.2	n
13C-1,2,3,6,7,8-HxCDD	97243148	1.28	y	33:06	0.86	100.00	3.5	n
1,2,3,4,7,8-HxCDD	47560400	1.24	y	33:02	0.98	50.00	-5.7	y
1,2,3,6,7,8-HxCDD	61071800	1.27	y	33:07	1.26	50.00	8.0	y
1,2,3,7,8,9-HxCDD	61073100	1.27	y	33:22	1.26	50.00	6.3	n
Total HxCDD	169705300	1.24	y	33:02	1.16	150.00	3.2	y
13C-1,2,3,4,6,7,8-HpCDF	92573958	0.43	y	34:52	0.82	100.00	-10.1	n
1,2,3,4,6,7,8-HpCDF	69849984	1.07	y	34:53	1.51	50.00	12.1	n
1,2,3,4,7,8,9-HpCDF	57425612	1.06	y	36:01	1.24	50.00	13.5	n
Total HpCDF	127275596	1.07	y	34:53	1.37	100.00	12.7	n
13C-1,2,3,4,6,7,8-HpCDD	82815052	1.07	y	35:40	0.73	100.00	-11.4	n
1,2,3,4,6,7,8-HpCDD	46457622	1.01	y	35:41	1.12	50.00	4.7	n
Total HpCDD	46717767	1.11	y	35:08	1.12	50.00	4.7	n
13C-OCDD	120042476	0.91	y	38:14	0.53	200.00	-14.4	n
OCDF	90032364	0.92	y	38:21	1.50	100.00	9.5	n
OCDD	73397864	0.90	y	38:14	1.22	100.00	2.0	n

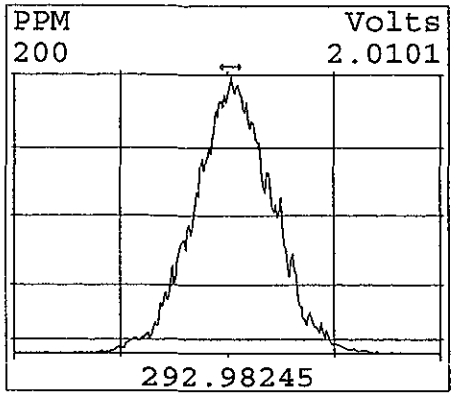
Run text: ST1207C File text: ST1207C :CS3 10DXN461
Run #17 Filename 07DE104D5 S: 29 I: 1
Acquired: 8-DEC-10 07:26:46 Processed: 8-DEC-10 09:00:36
Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5 Results: 07DE104D5TO9

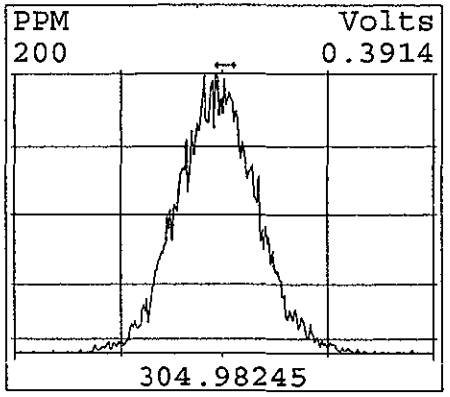
Name	Resp	RA		RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	213215496	0.81	y	19:55	-	100.00	-	n
13C-2,3,7,8-TCDF	287925320	0.81	y	19:19	1.35	100.00	9.8	n
2,3,7,8-TCDF	30076573	0.78	y	19:20	1.04	10.00	5.0	n
Total TCDF	30671972	0.76	y	18:17	1.04	10.00	5.0	n
13C-2,3,7,8-TCDD	208175384	0.81	y	20:07	0.98	100.00	7.9	n
2,3,7,8-TCDD	21961753	0.77	y	20:09	1.05	10.00	7.3	n
Total TCDD	22094651	0.73	y	18:51	1.05	10.00	7.3	n
37Cl-2,3,7,8-TCDD	27137796	1.00	y	20:09	1.30	10.00	-1.7	n
13C-1,2,3,7,8-PeCDF	207097944	1.58	y	25:11	0.97	100.00	10.9	n
1,2,3,7,8-PeCDF	117000700	1.59	y	25:13	1.13	50.00	4.9	n
2,3,4,7,8-PeCDF	108287168	1.57	y	26:46	1.05	50.00	0.0	n
Total F2 PeCDF	227153762	1.96	n	23:36	1.09	100.00	2.5	n
Total F1 PeCDF	*	*	n	NotFnd	1.09	100.00	2.5	n
13C-1,2,3,7,8-PeCDD	135549800	1.67	y	27:34	0.64	100.00	-3.8	n
1,2,3,7,8-PeCDD	73941266	1.53	y	27:37	1.09	50.00	17.9	n
Total PeCDD	73941266	1.53	y	27:37	1.09	50.00	17.9	n
13C-1,2,3,7,8,9-HxCDD	113121160	1.26	y	33:22	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	110690792	0.50	y	32:16	0.98	100.00	-6.3	n
1,2,3,4,7,8-HxCDF	71835186	1.21	y	32:17	1.30	50.00	6.6	n
1,2,3,6,7,8-HxCDF	85814208	1.10	y	32:22	1.55	50.00	21.0	n
2,3,4,6,7,8-HxCDF	76426872	1.14	y	32:55	1.38	50.00	12.0	n
1,2,3,7,8,9-HxCDF	65754280	1.15	y	33:32	1.19	50.00	8.2	n
Total HxCDF	299974778	0.85	n	31:13	1.35	200.00	12.2	n
13C-1,2,3,6,7,8-HxCDD	97243148	1.28	y	33:06	0.86	100.00	3.5	n
1,2,3,4,7,8-HxCDD	44285208	1.44	n	33:02	0.91	50.00	-12.2	n
1,2,3,6,7,8-HxCDD	60389242	1.13	y	33:07	1.24	50.00	6.8	n
1,2,3,7,8,9-HxCDD	61073050	1.27	y	33:22	1.26	50.00	6.3	n
Total HxCDD	165747500	1.44	n	33:02	1.14	150.00	0.8	n
13C-1,2,3,4,6,7,8-HpCDF	92573958	0.43	y	34:52	0.82	100.00	-10.1	n
1,2,3,4,6,7,8-HpCDF	69849984	1.07	y	34:53	1.51	50.00	12.1	n
1,2,3,4,7,8,9-HpCDF	57425612	1.06	y	36:01	1.24	50.00	13.5	n
Total HpCDF	127275596	1.07	y	34:53	1.37	100.00	12.7	n
13C-1,2,3,4,6,7,8-HpCDD	82815052	1.07	y	35:40	0.73	100.00	-11.4	n
1,2,3,4,6,7,8-HpCDD	46457622	1.01	y	35:41	1.12	50.00	4.7	n
Total HpCDD	46717767	1.11	y	35:08	1.12	50.00	4.7	n
13C-OCDD	120042476	0.91	y	38:14	0.53	200.00	-14.4	n
OCDF	90032364	0.92	y	38:21	1.50	100.00	9.5	n
OCDD	73397864	0.90	y	38:14	1.22	100.00	2.0	n

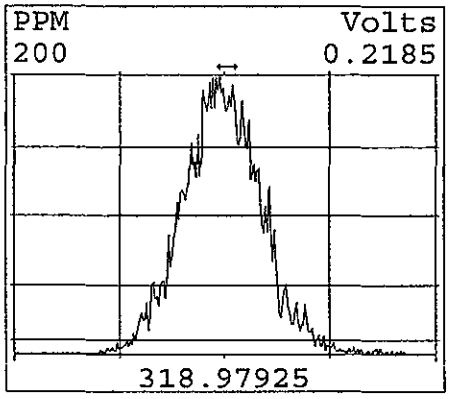
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
07DE104D5	1	CP1207	DB-5 CPSM 10LRES076				1.00000	
07DE104D5	2	ST1207	CS3 10DXN461				1.00000	
07DE104D5	3	MAVWM-1-AA	G0L020446-1MB	20	TO9/AIR	30	0.50000	SAM
07DE104D5	4	MAV34-1-AA	G0L040422-2	20	8290/SOLID		15.04000	g
07DE104D5	5	MAV35-1-AA	G0L040422-3	20	8290/SOLID		15.06000	g
07DE104D5	6	MAV36-1-AA	G0L040422-4	20	8290/SOLID		15.05000	g
07DE104D5	7	MAV37-1-AA	G0L040422-5	20	8290/SOLID		15.03000	g
07DE104D5	8	MATLN-1-AA	G0L030456-1	20	8290/SOLID		15.08000	g
07DE104D5	9	MATLN-1-AD	G0L030456-1MS	20	8290/SOLID		15.01000	g
07DE104D5	10	MATLN-1-AE	G0L030456-1MSD	20	8290/SOLID		15.04000	g
07DE104D5	11	MAVWM-1-AC	G0L020446-1LCS	20	TO9/AIR	30	0.50000	SAM
07DE104D5	12	MAVWM-1-AD	G0L020446-1DCS	20	TO9/AIR		0.50000	SAM
07DE104D5	13	ST1207A	CS3 10DXN461				1.00000	
07DE104D5	14	CP1207A	DB-5 CPSM 10LRES076				1.00000	
07DE104D5	15	ST1207B	CS3 10DXN461				1.00000	
07DE104D5	16	MAXGD-1-AA	G0L030524-1MB	20	8290/SOLID	31	10.00000	g
07DE104D5	17	MAQQV-1-AA	G0L020446-1	20	TO9/AIR	30	0.50000	SAM
07DE104D5	18	MAQQ6-1-AA	G0L020446-5	20	TO9/AIR		0.50000	SAM
07DE104D5	19	MAQRD-1-AA	G0L020446-8	20	TO9/AIR		0.50000	SAM
07DE104D5	20	MAT63-1-AD	G0L030524-1	20	8290/SOLID	31	10.98000	g
07DE104D5	21	MAFFX-1-AA	G0K220529-10 (25X)	20	8290/WASTE	25	0.10000	g
07DE104D5	22	MAT9E-1-AF	F0L030530-1	20	8290/SOLID	31	10.03500	g
`DE104D5	23	MAT9K-1-AM	F0L030530-2	20	8290/SOLID		10.48500	g
,/DE104D5	24	MAT9K-1-AN	F0L030530-2MS	20	8290/SOLID		10.21500	g
07DE104D5	25	MAT9K-1-AP	F0L030530-2MSD	20	8290/SOLID		10.00500	g
07DE104D5	26	MAT9M-1-AF	F0L030530-3	20	8290/SOLID		10.49500	g
07DE104D5	27	MAT9Q-1-AF	F0L030530-4	20	8290/SOLID		10.37500	g
07DE104D5	28	MAXGD-1-AC	G0L030524-1LCS	20	8290/SOLID	31	10.00000	g
07DE104D5	29	ST1207C	CS3 10DXN461				1.00000	
07DE104D5	30						1.00000	
07DE104D5	31						1.00000	
07DE104D5	32						1.00000	
07DE104D5	33		AS 12-07-10				1.00000	

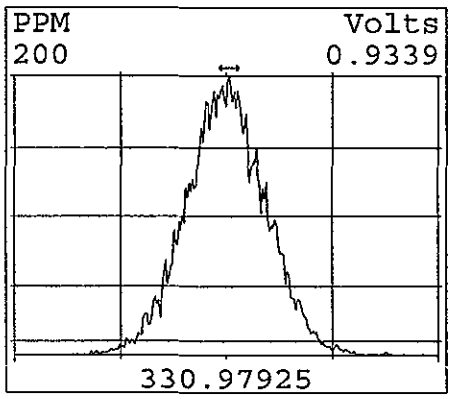
Logfile v1d
12/8/10
KSS

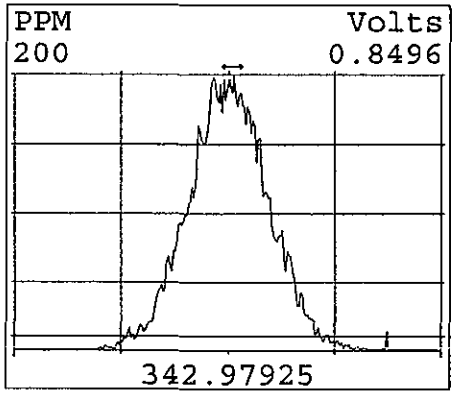
Peak Locate Examination: 7-DEC-2010:10:36 File:07DE104D5
Experiment:DIOXINRES Function:1 Reference:PFK

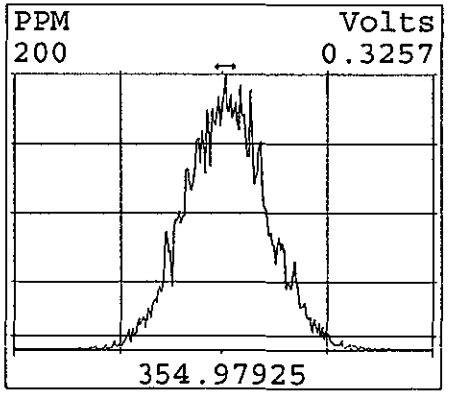


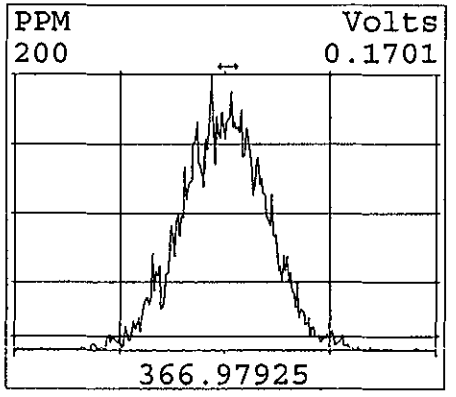


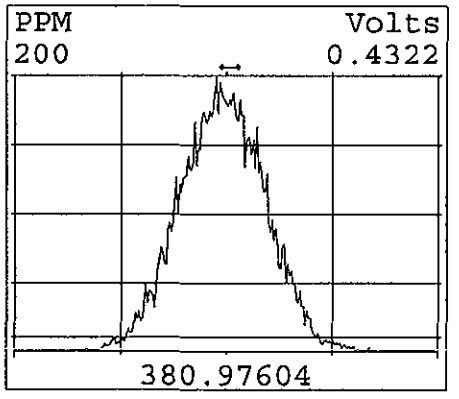


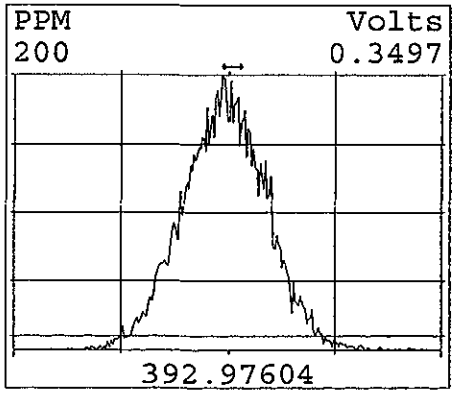


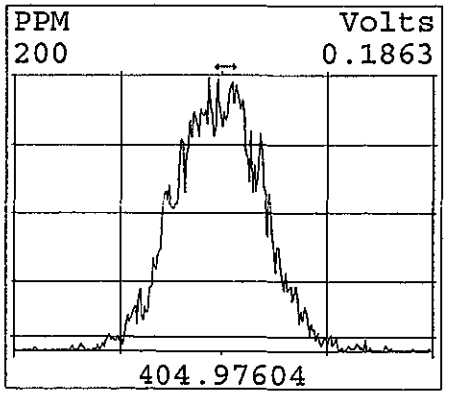


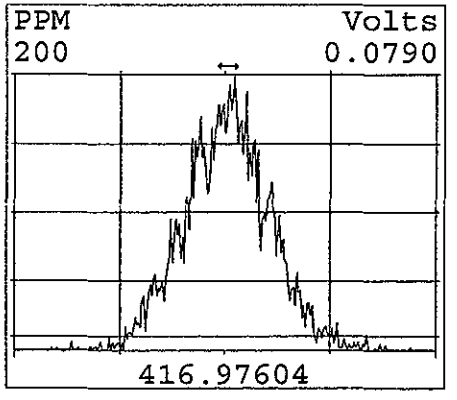




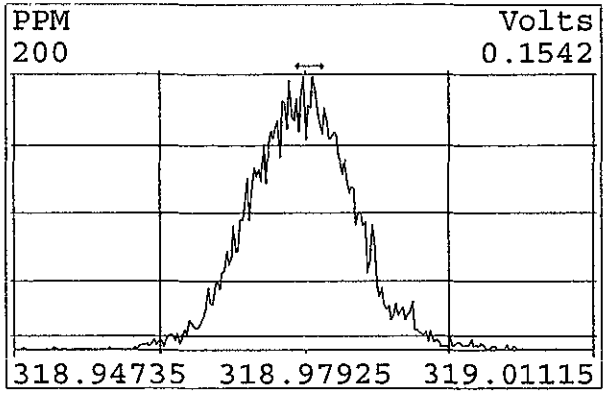


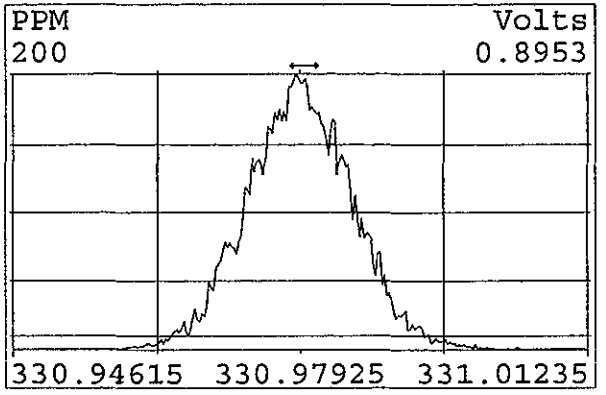


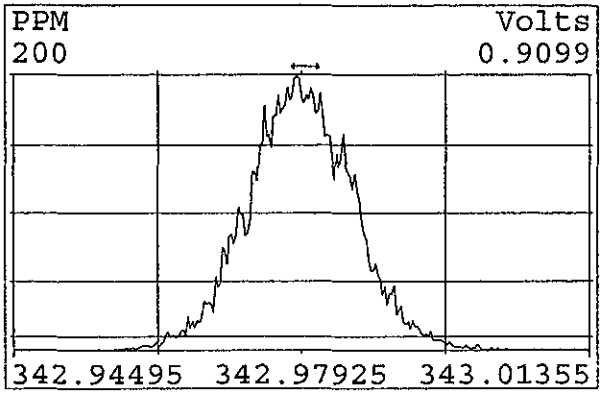


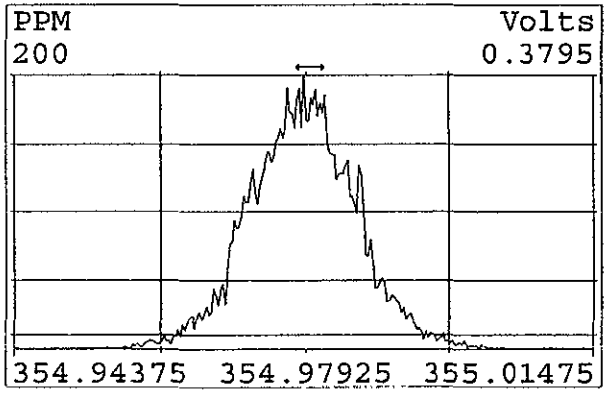


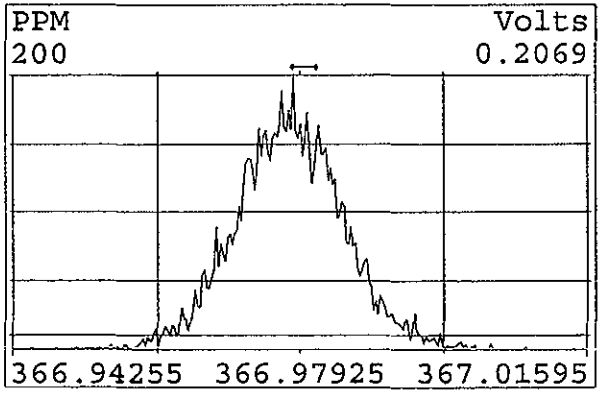
Peak Locate Examination: 7-DEC-2010:10:37 File:07DE104D5
Experiment:DIOXINRES Function:2 Reference:PFK

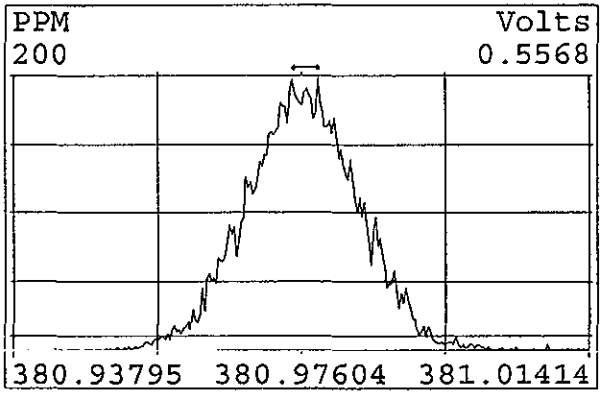


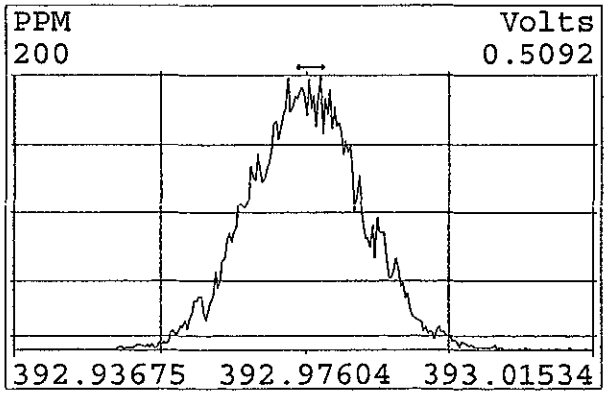


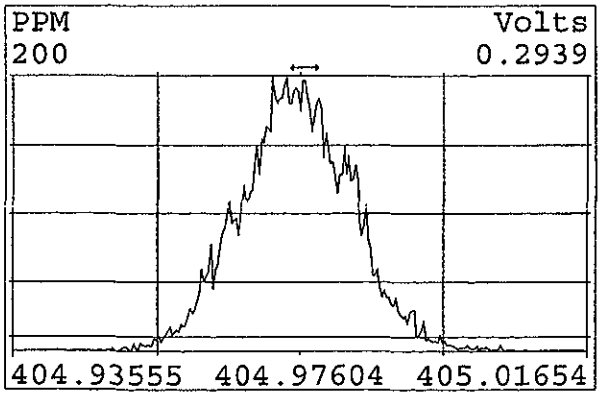


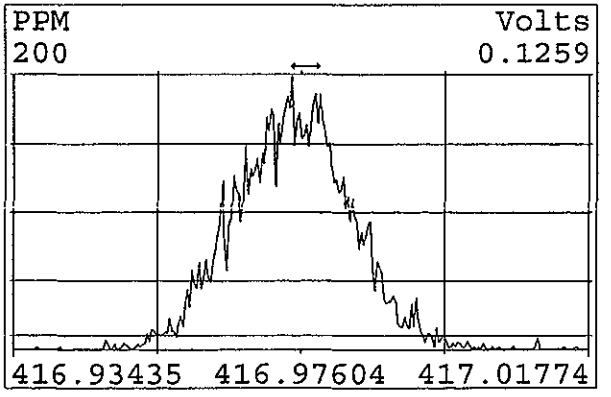




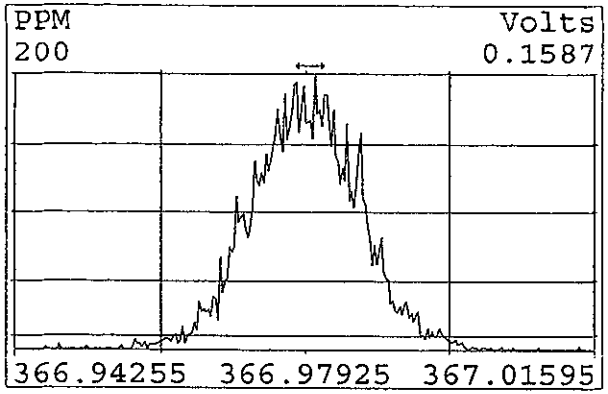


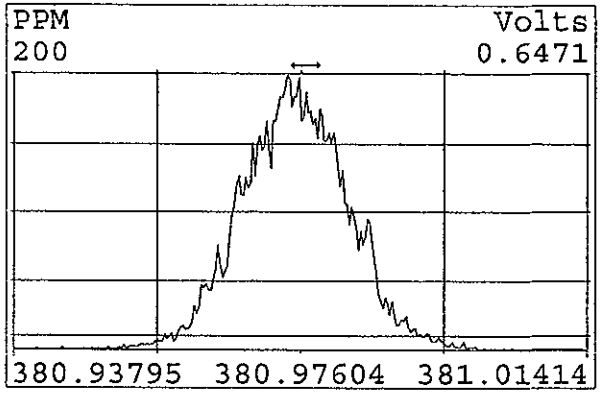


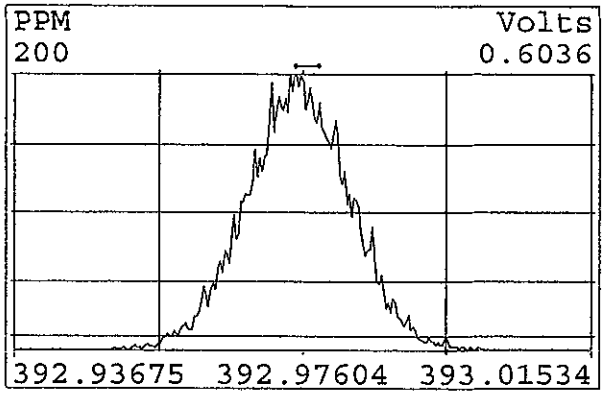


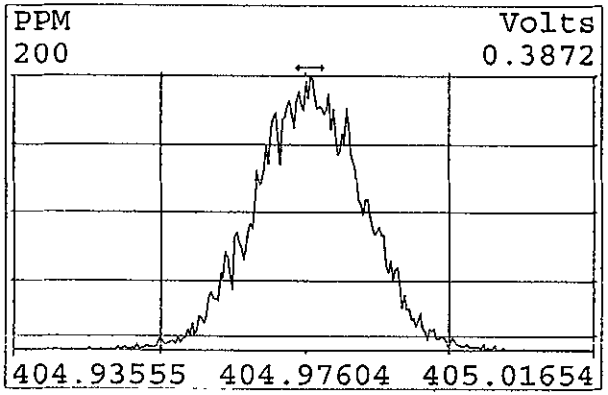


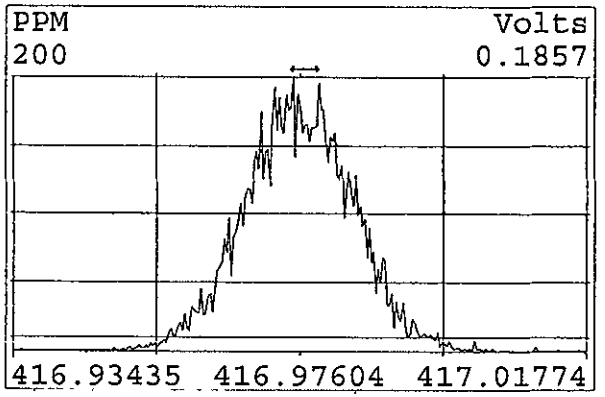
Peak Locate Examination: 7-DEC-2010:10:37 File:07DE104D5
Experiment:DIOXINRES Function:3 Reference:PFK

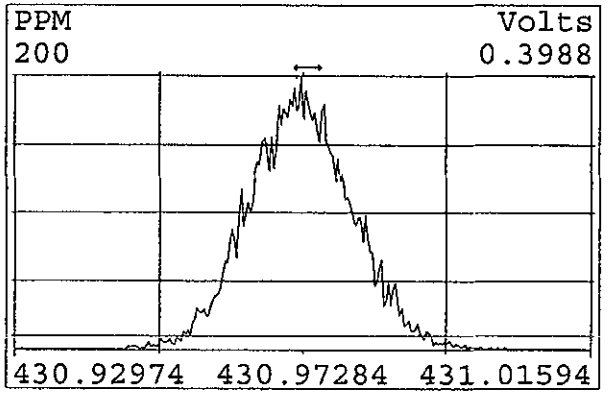


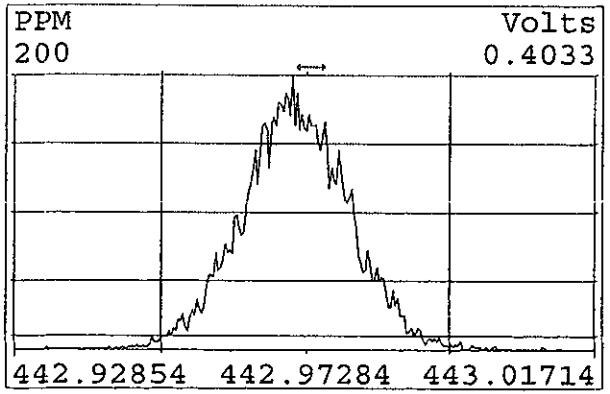


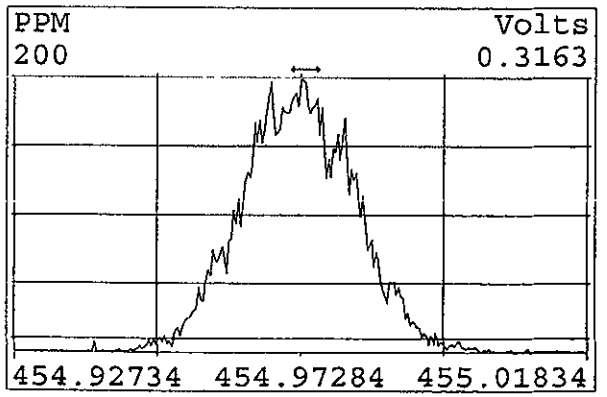




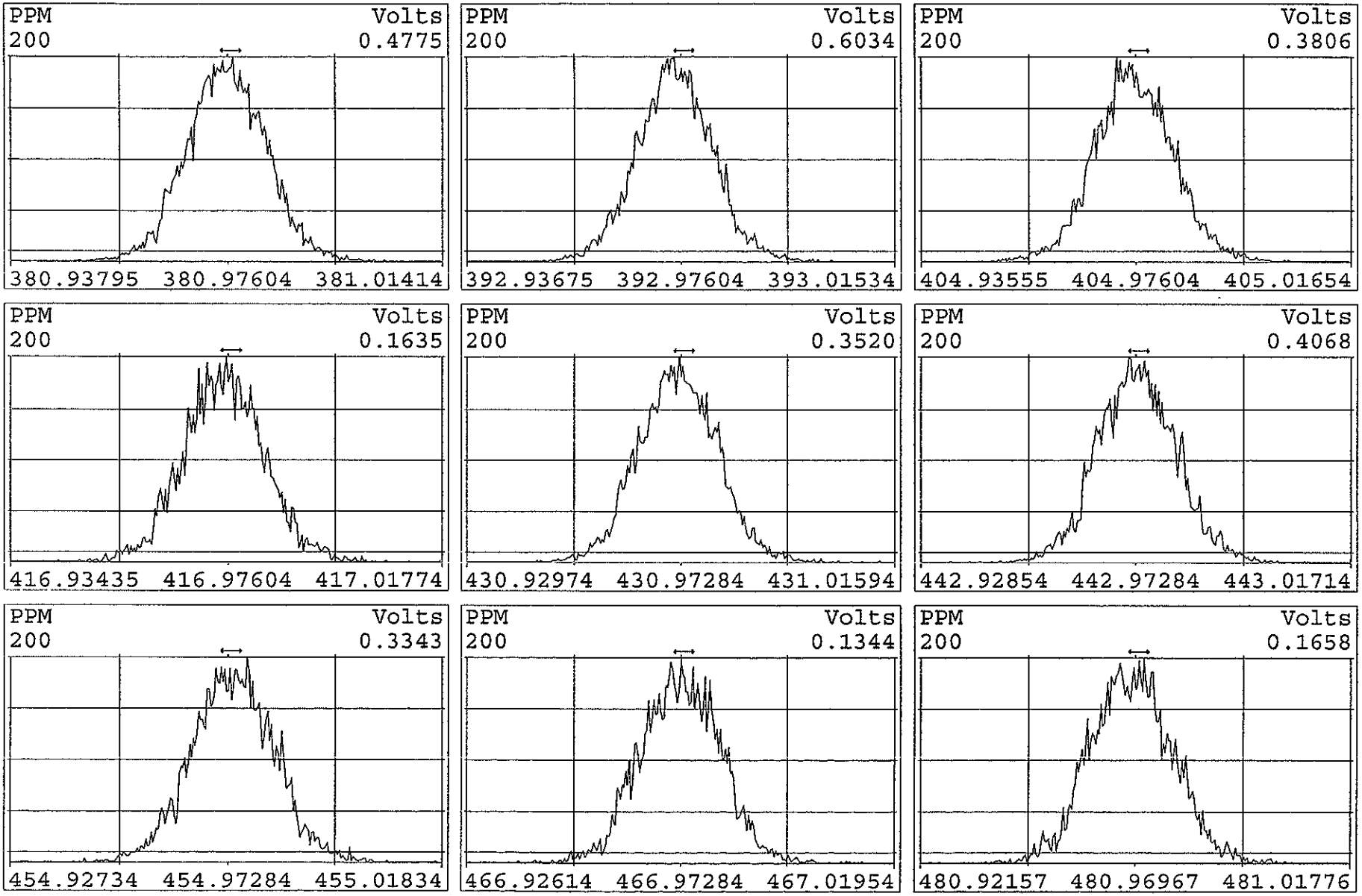




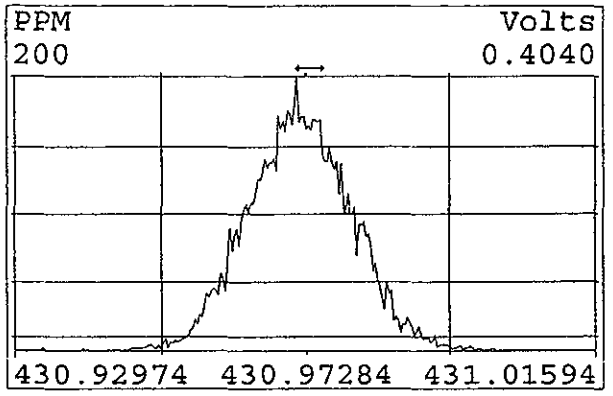


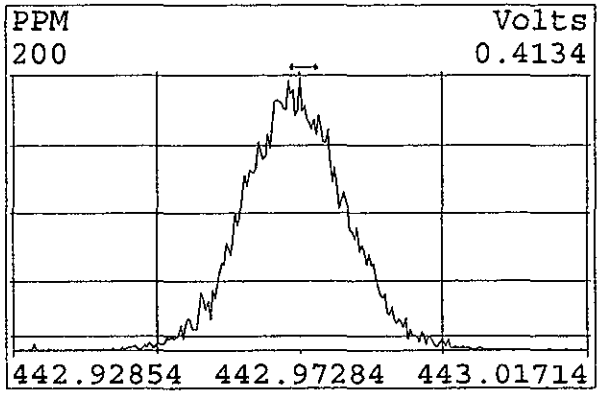


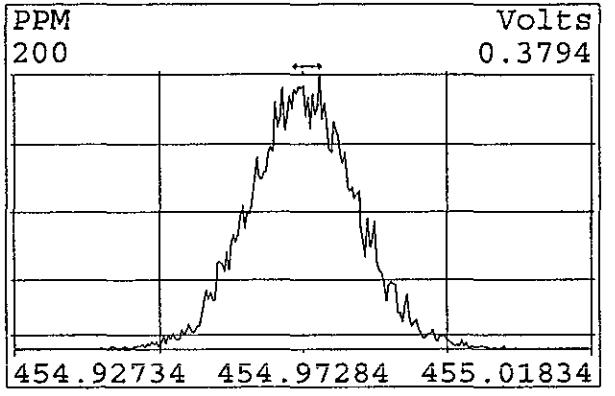
Peak Locate Examination: 7-DEC-2010:10:37 File:07DE104D5
Experiment:DIOXINRES Function:4 Reference:PFK

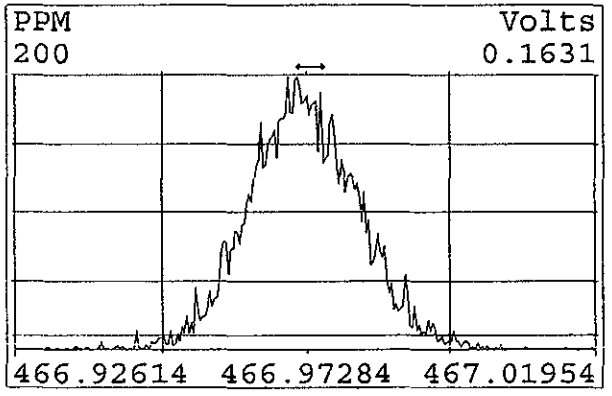


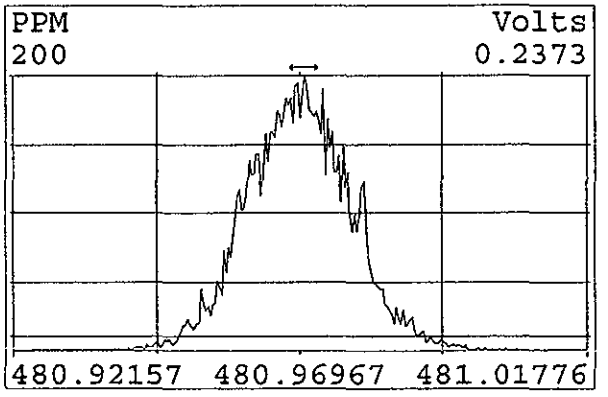
Peak Locate Examination: 7-DEC-2010:10:37 File:07DE104D5
Experiment:DIOXINRES Function:5 Reference:PFK

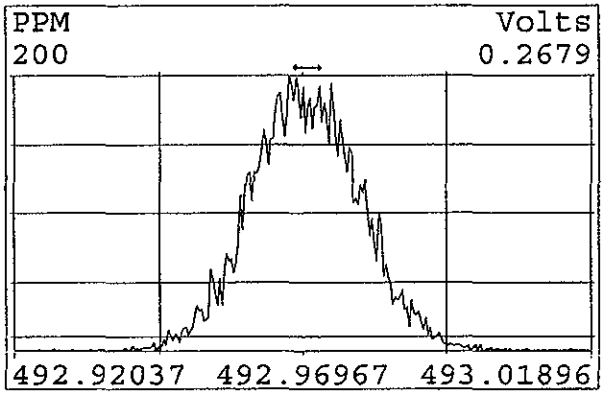


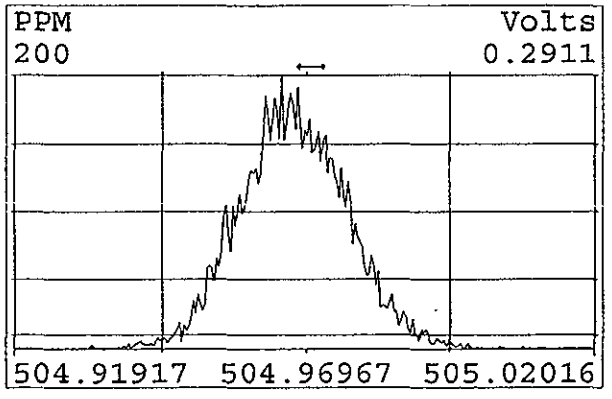


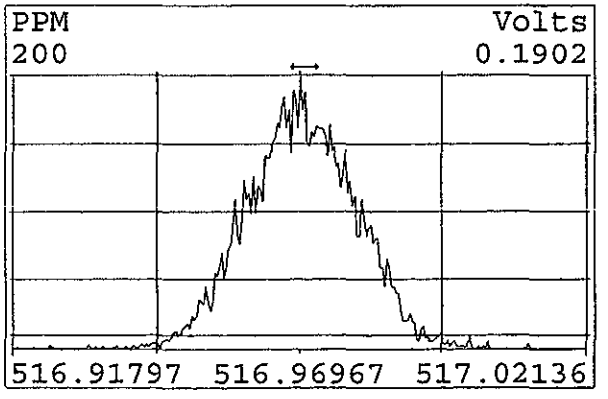




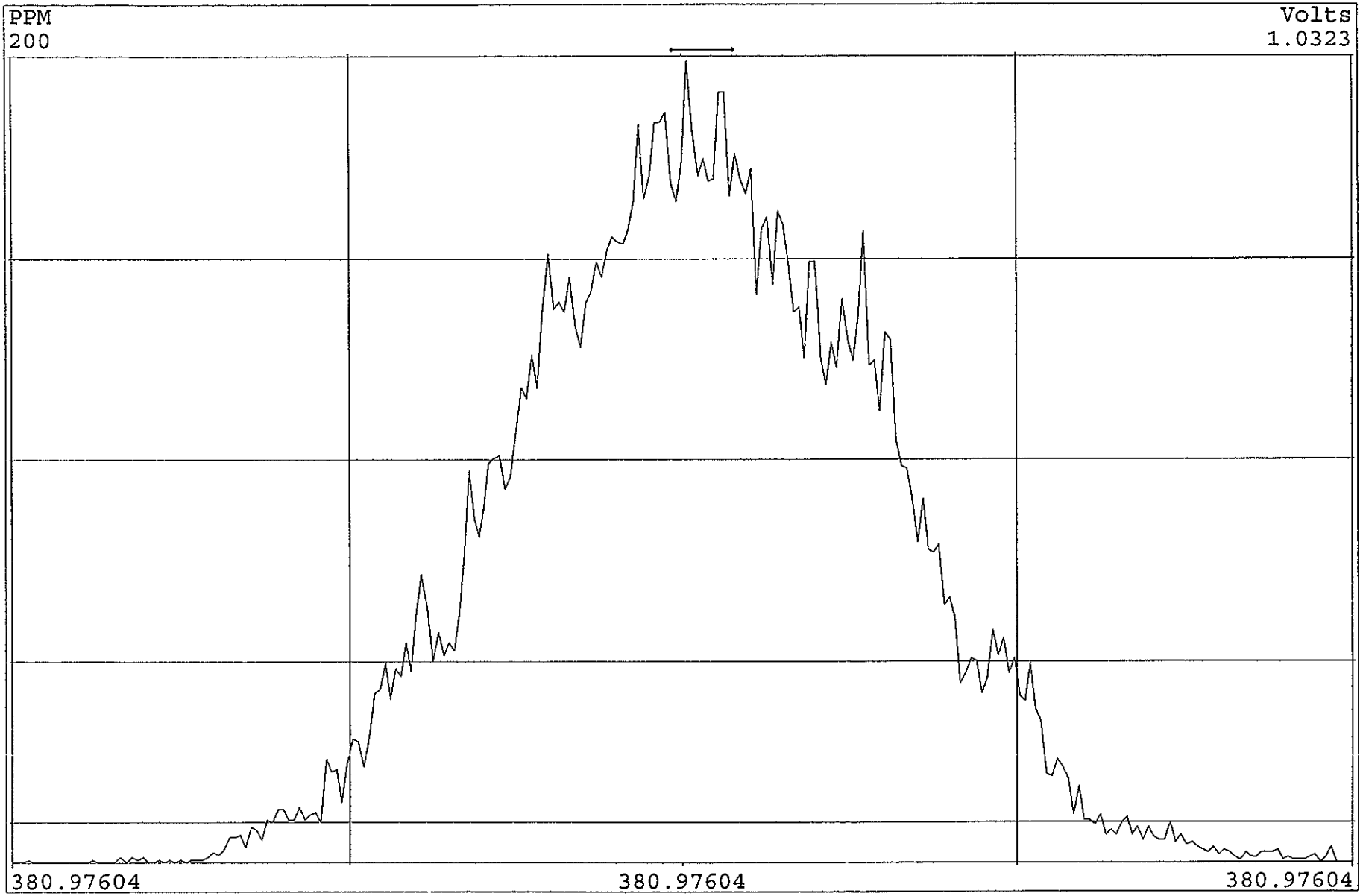




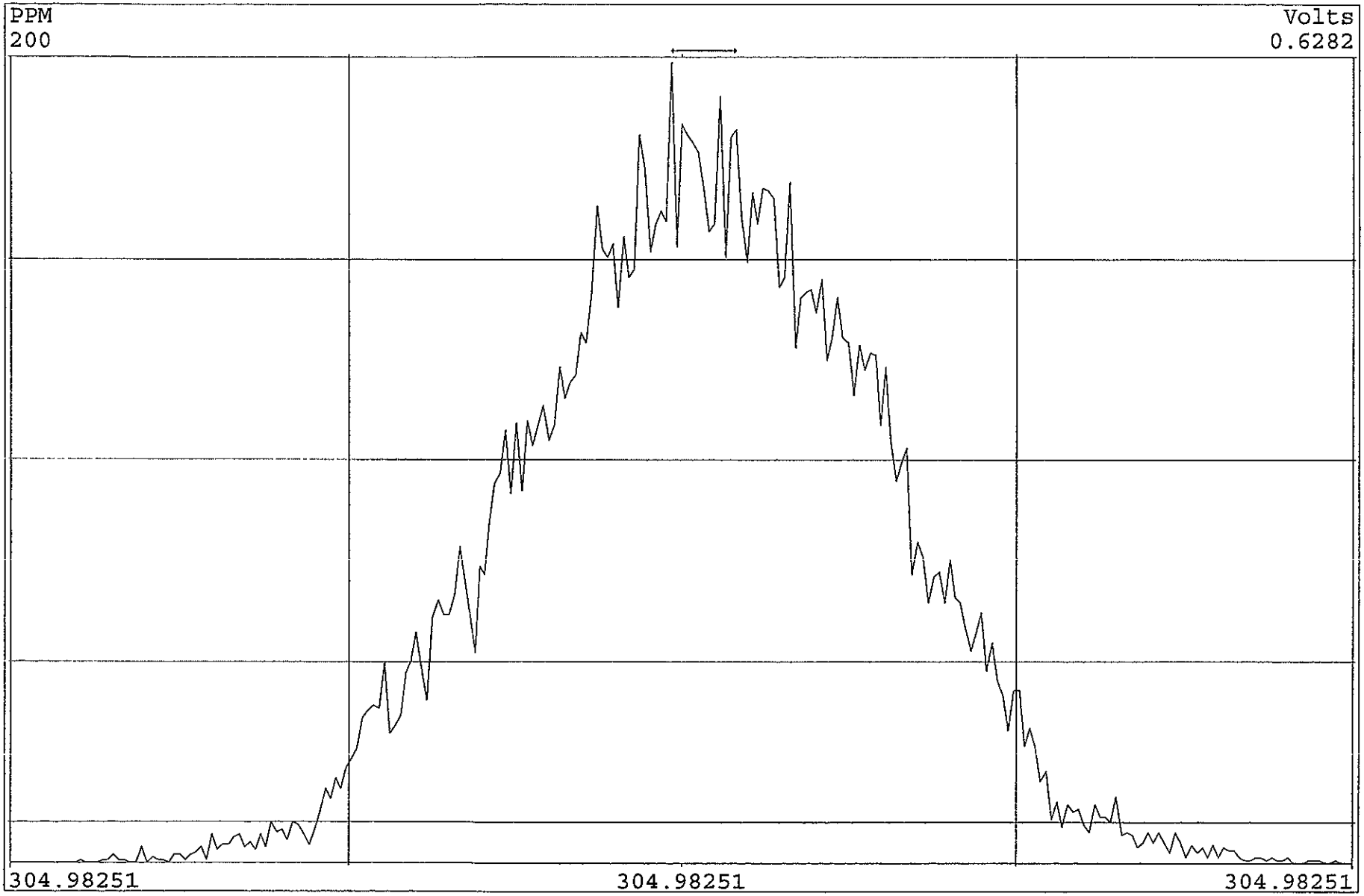




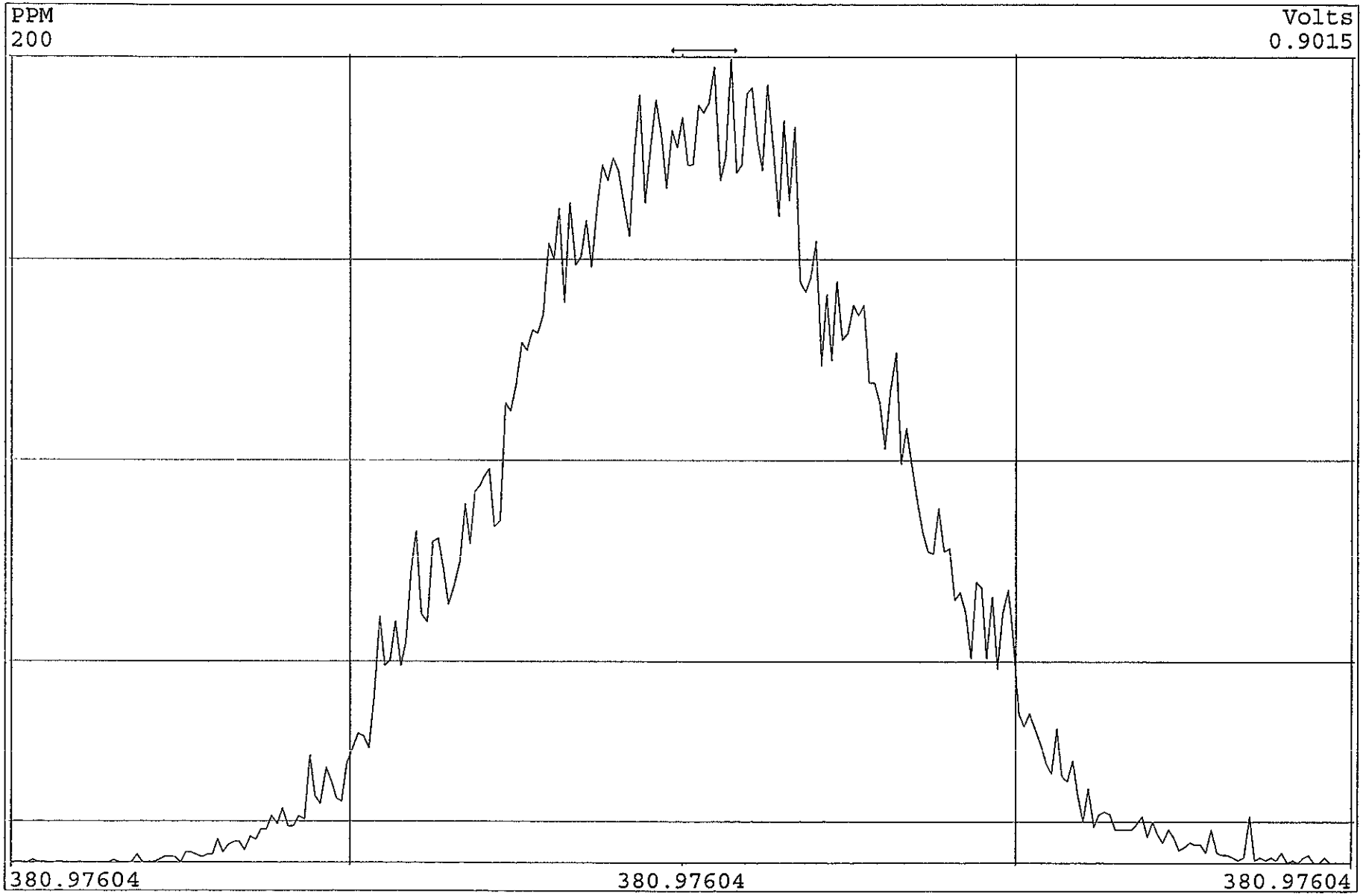
SIRLM Examination: 7-DEC-2010:19:30 File:07DE104D5
Experiment:DIOXINRES Function:6



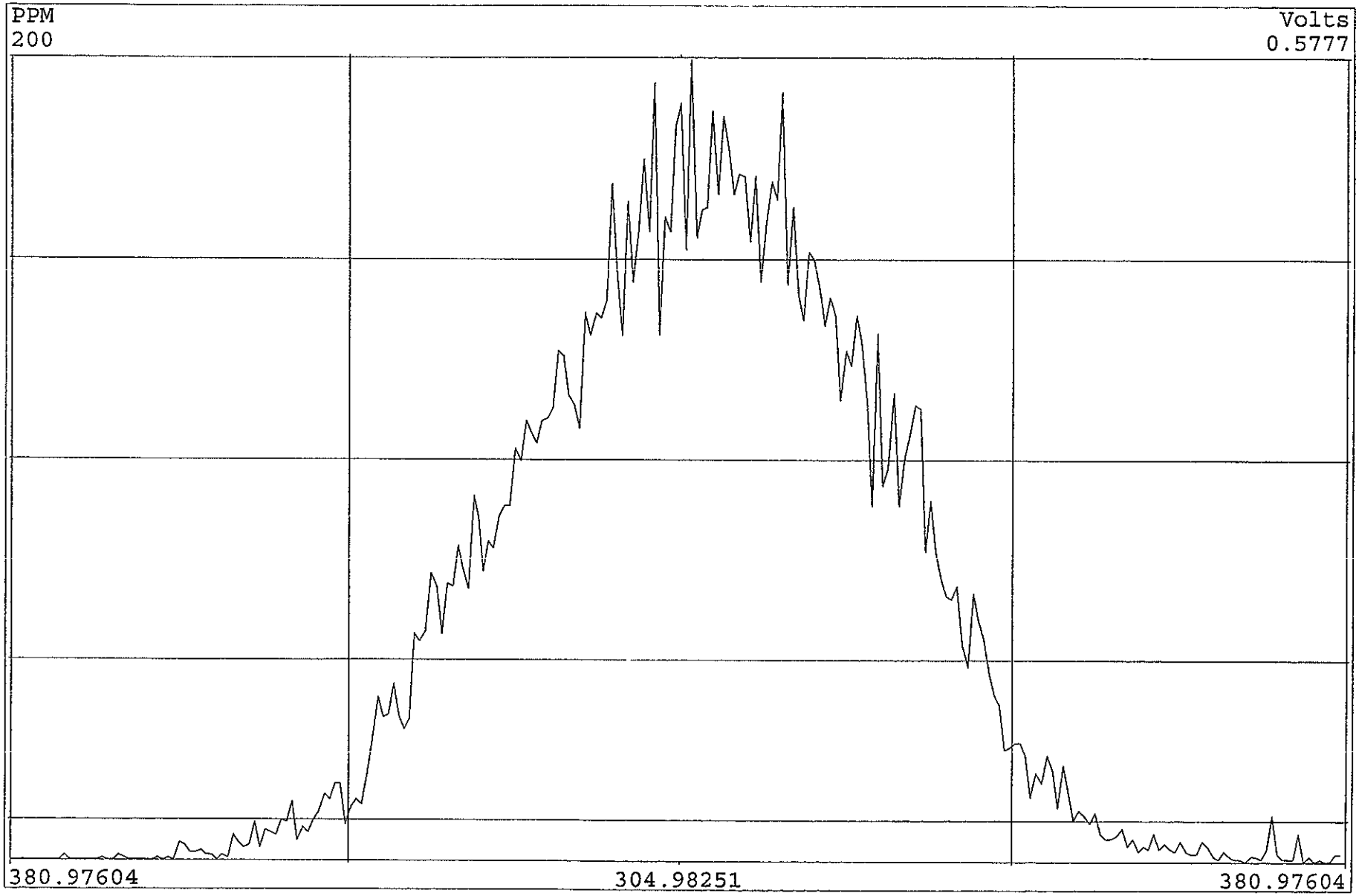
SIRLM Examination: 7-DEC-2010:19:31 File:07DE104D5
Experiment:DIOXINRES Function:7



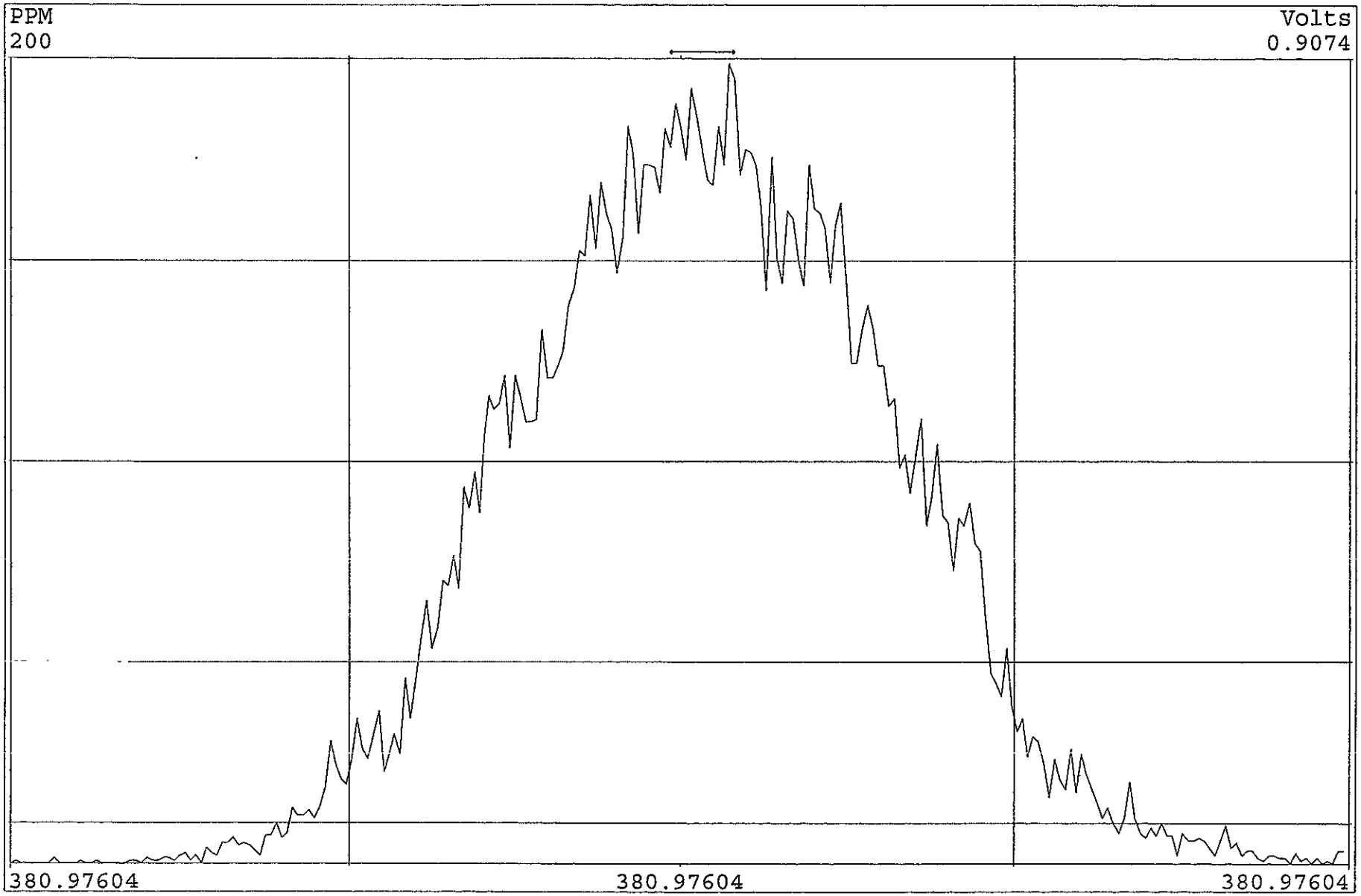
SIRLM Examination: 7-DEC-2010:20:14 File:07DE104D5
Experiment:DIOXINRES Function:6



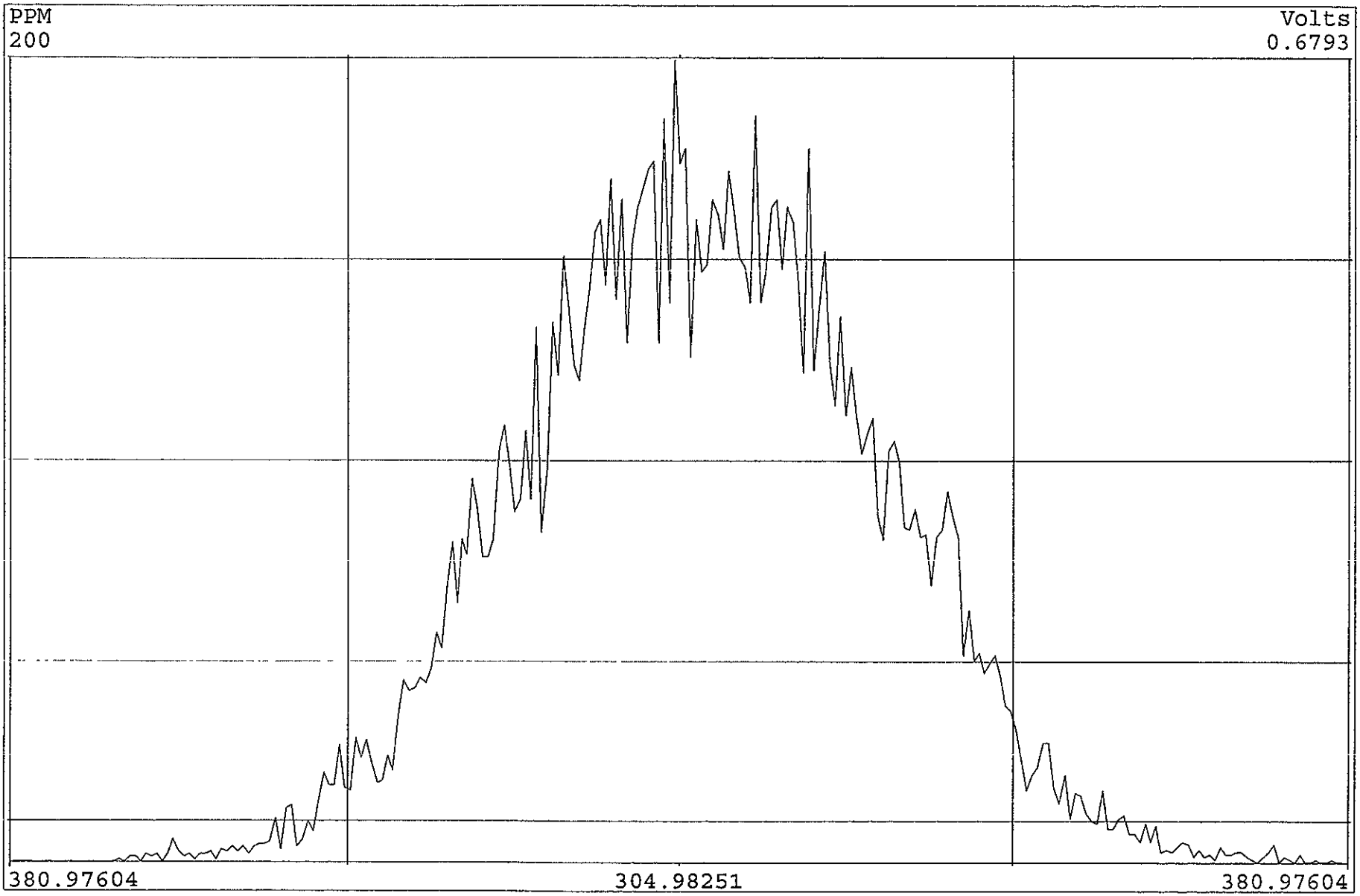
SIRLM Examination: 7-DEC-2010:20:16 File:07DE104D5
Experiment:DIOXINRES Function:7



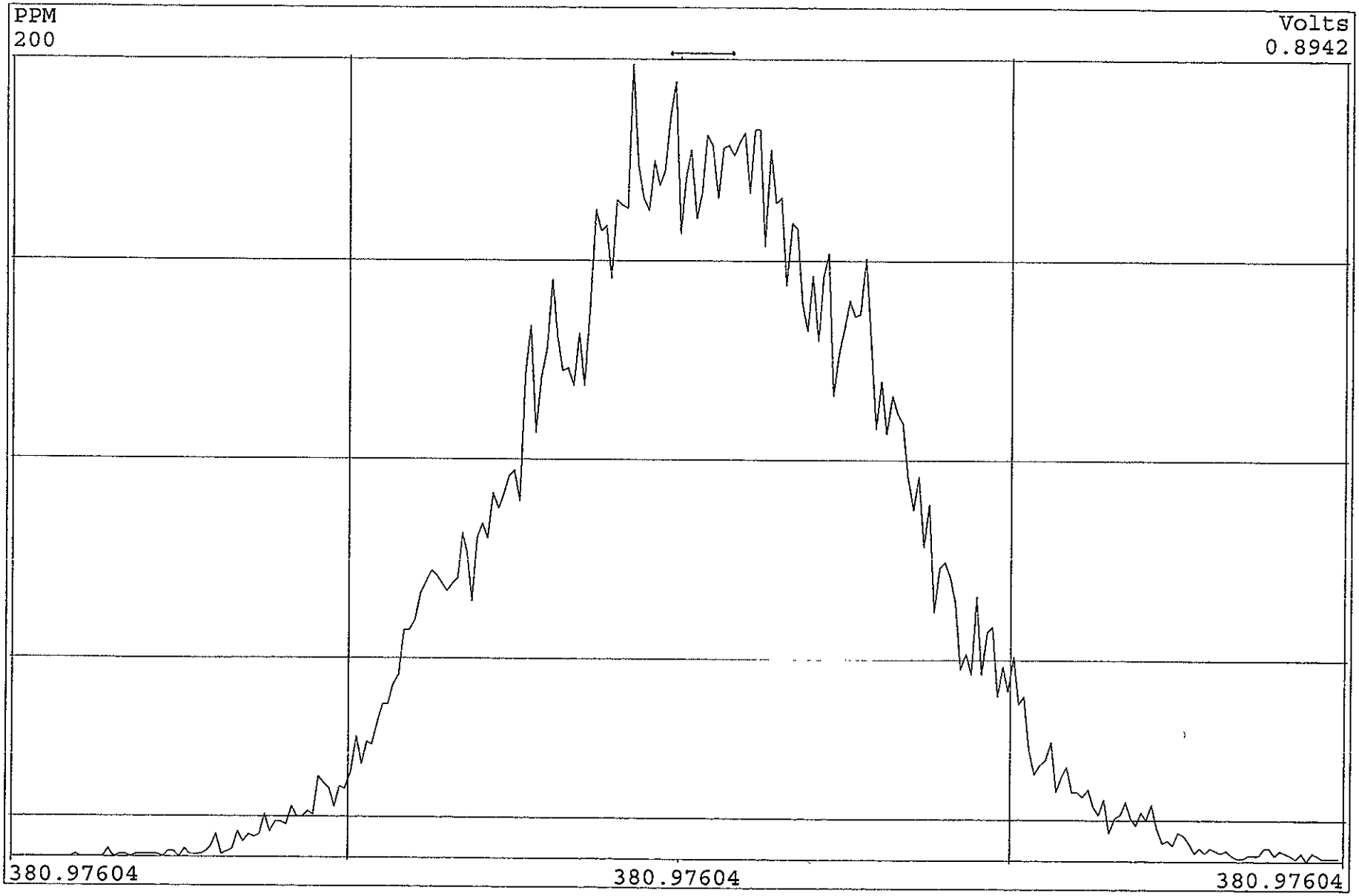
SIRLM Examination: 7-DEC-2010:20:59 File:07DE104D5
Experiment:DIOXINRES Function:6



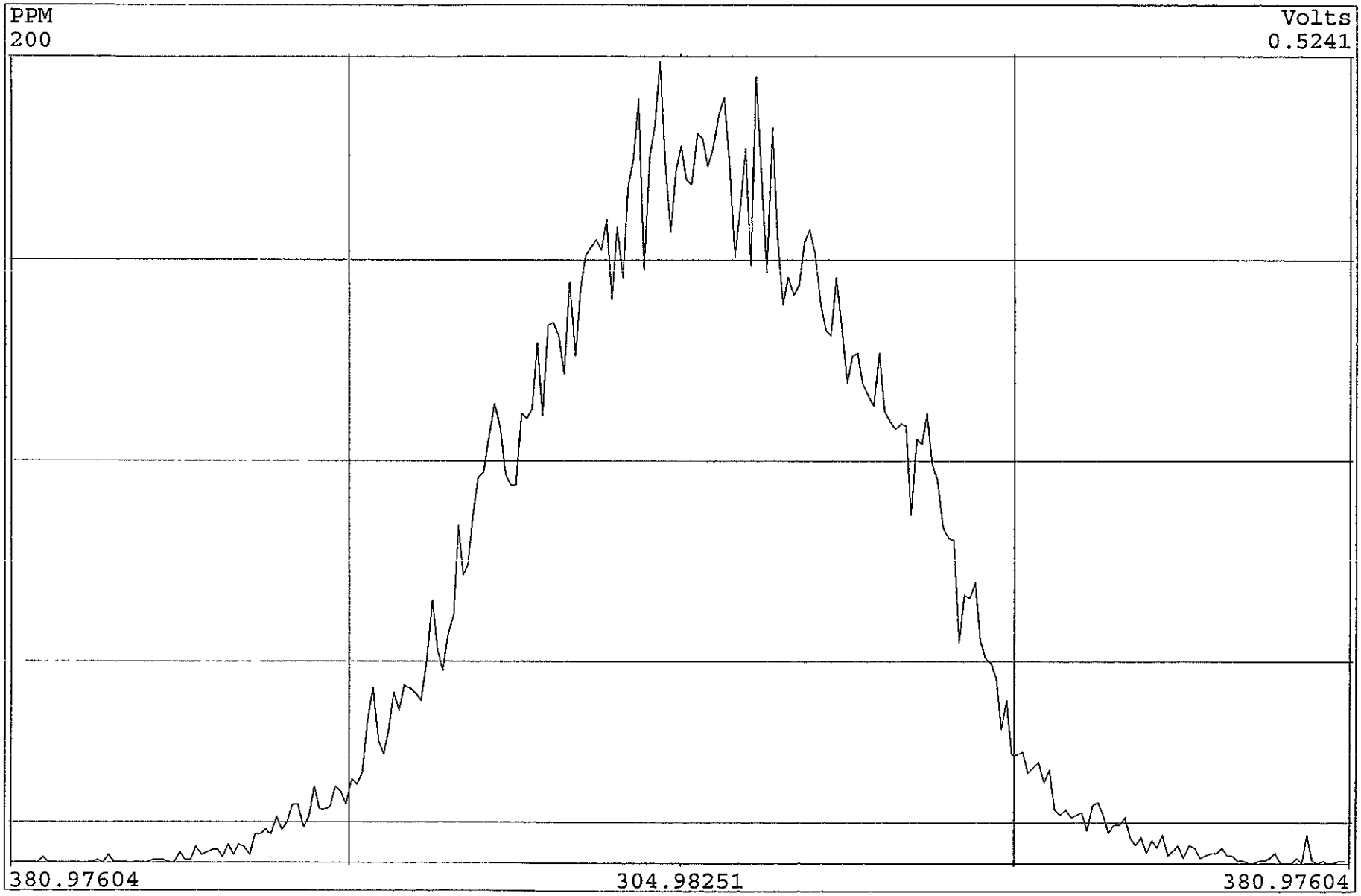
SIRLM Examination: 7-DEC-2010:21:00 File:07DE104D5
Experiment:DIOXINRES Function:7



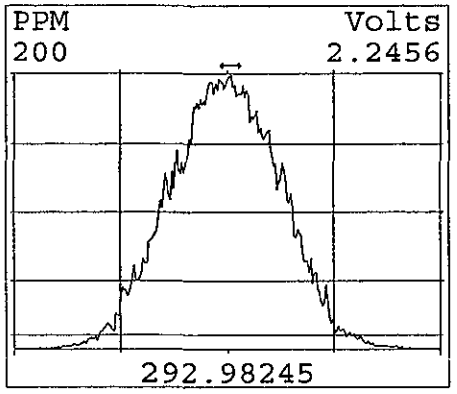
SIRLM Examination: 7-DEC-2010:21:43 File:07DE104D5
Experiment:DIOXINRES Function:6

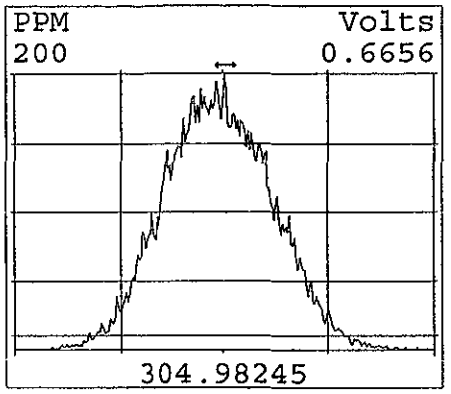


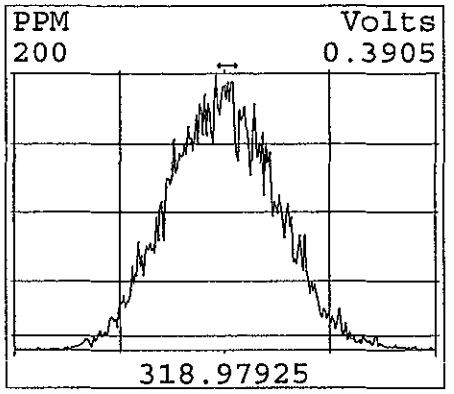
SIRLM Examination: 7-DEC-2010:21:45 File:07DE104D5
Experiment:DIOXINRES Function:7

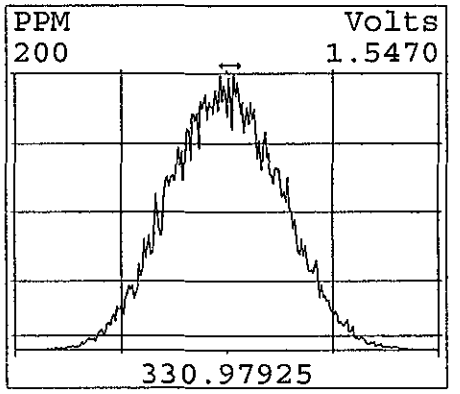


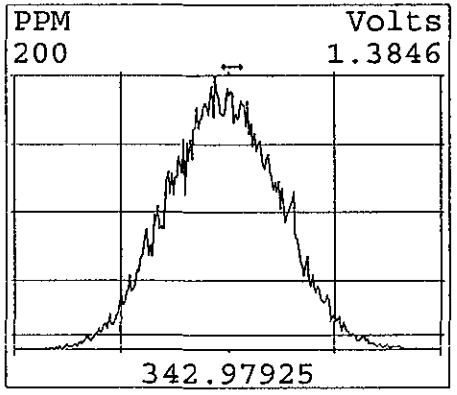
Peak Locate Examination: 8-DEC-2010:08:16 File:07DE104D5ENDRES
Experiment:DIOXINRES Function:1 Reference:PFK

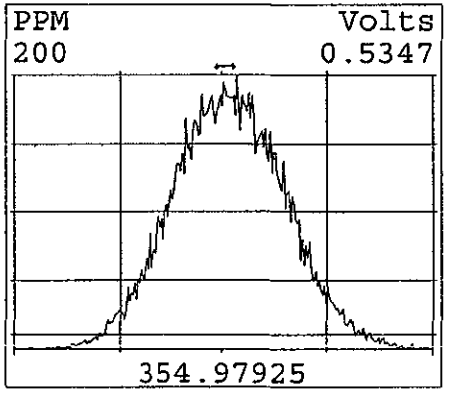


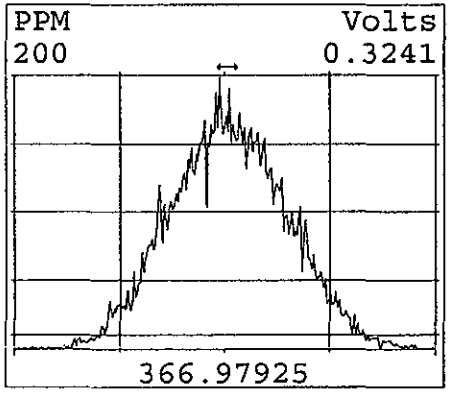


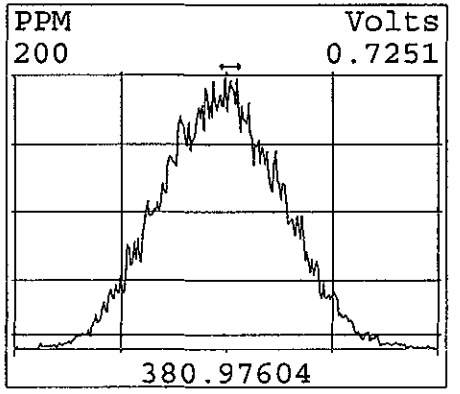


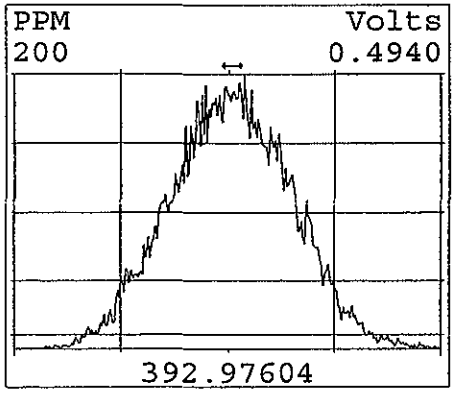


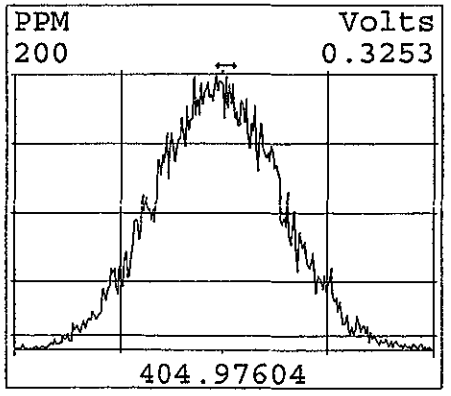


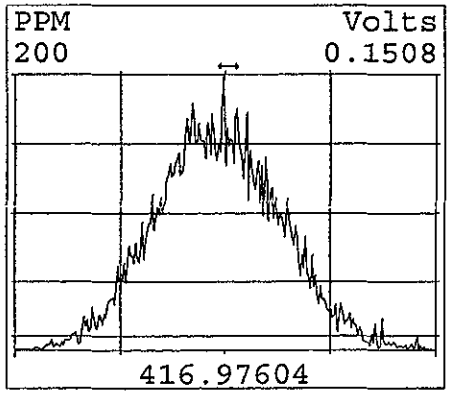




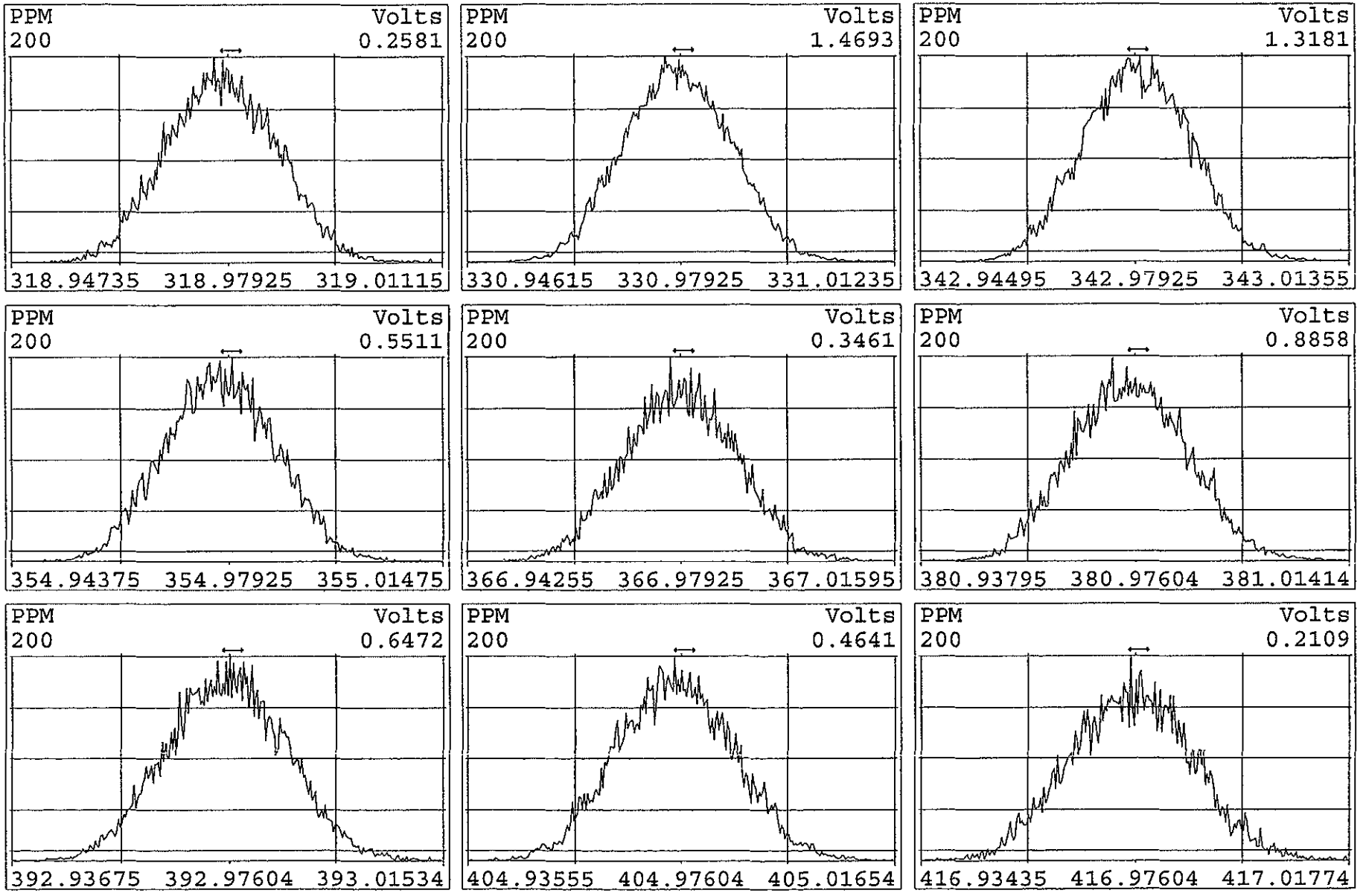




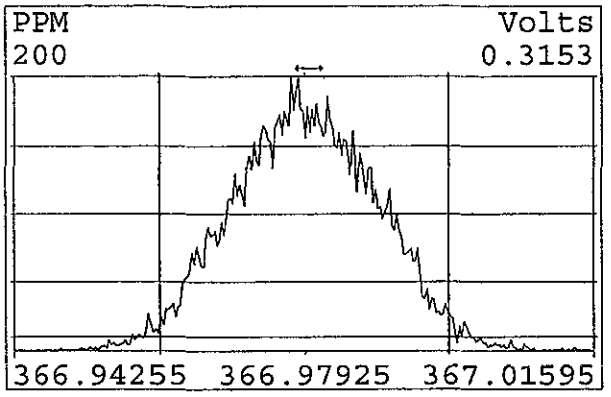


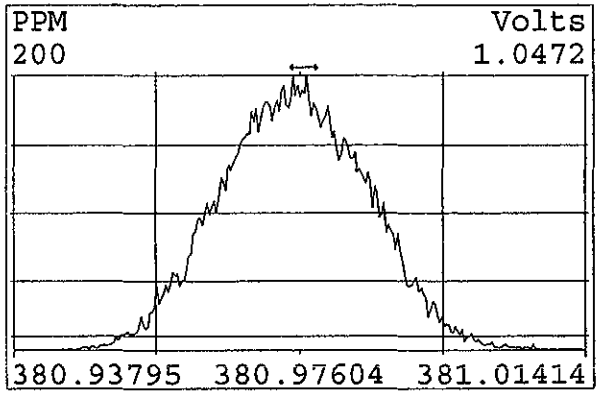


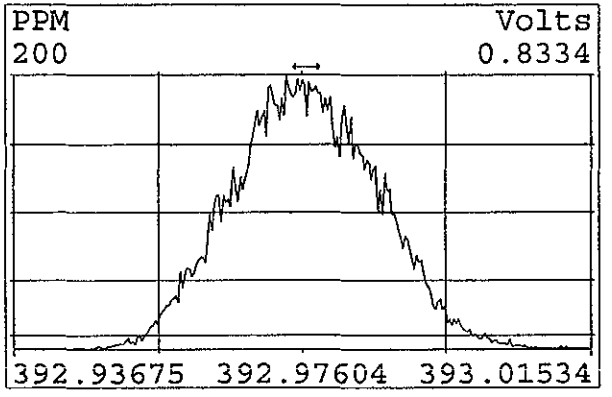
Peak Locate Examination: 8-DEC-2010:08:16 File:07DE104D5ENDRES
Experiment:DIOXINRES Function:2 Reference:PFK

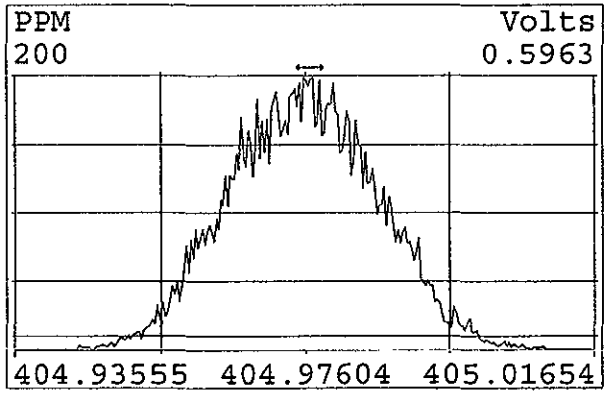


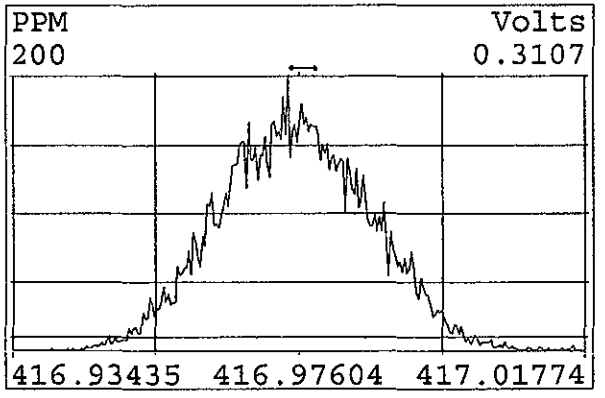
Peak Locate Examination: 8-DEC-2010:08:16 File:07DE104D5ENDRES
Experiment:DIOXINRES Function:3 Reference:PFK

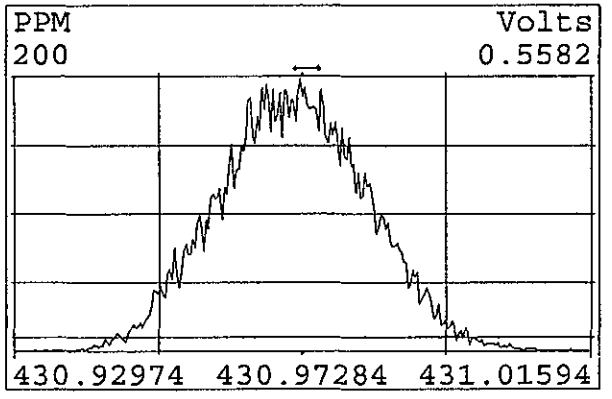


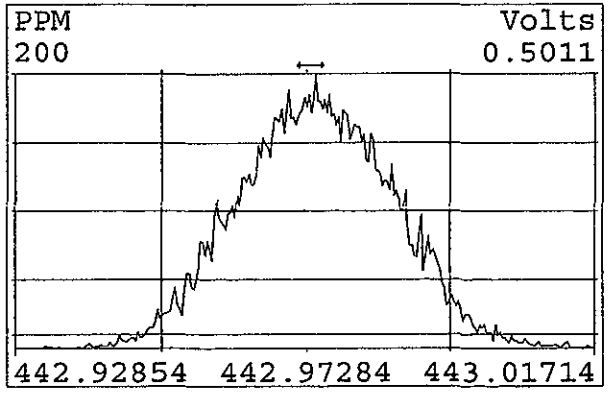


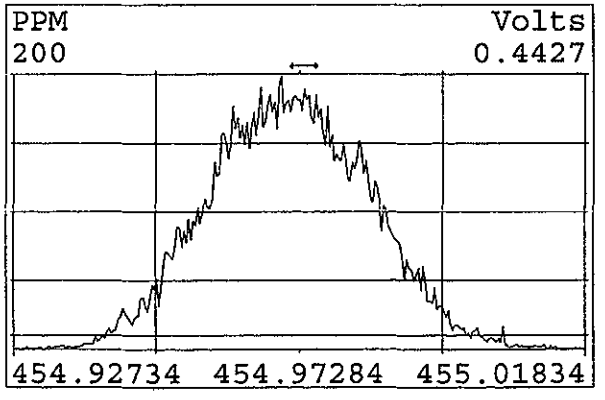




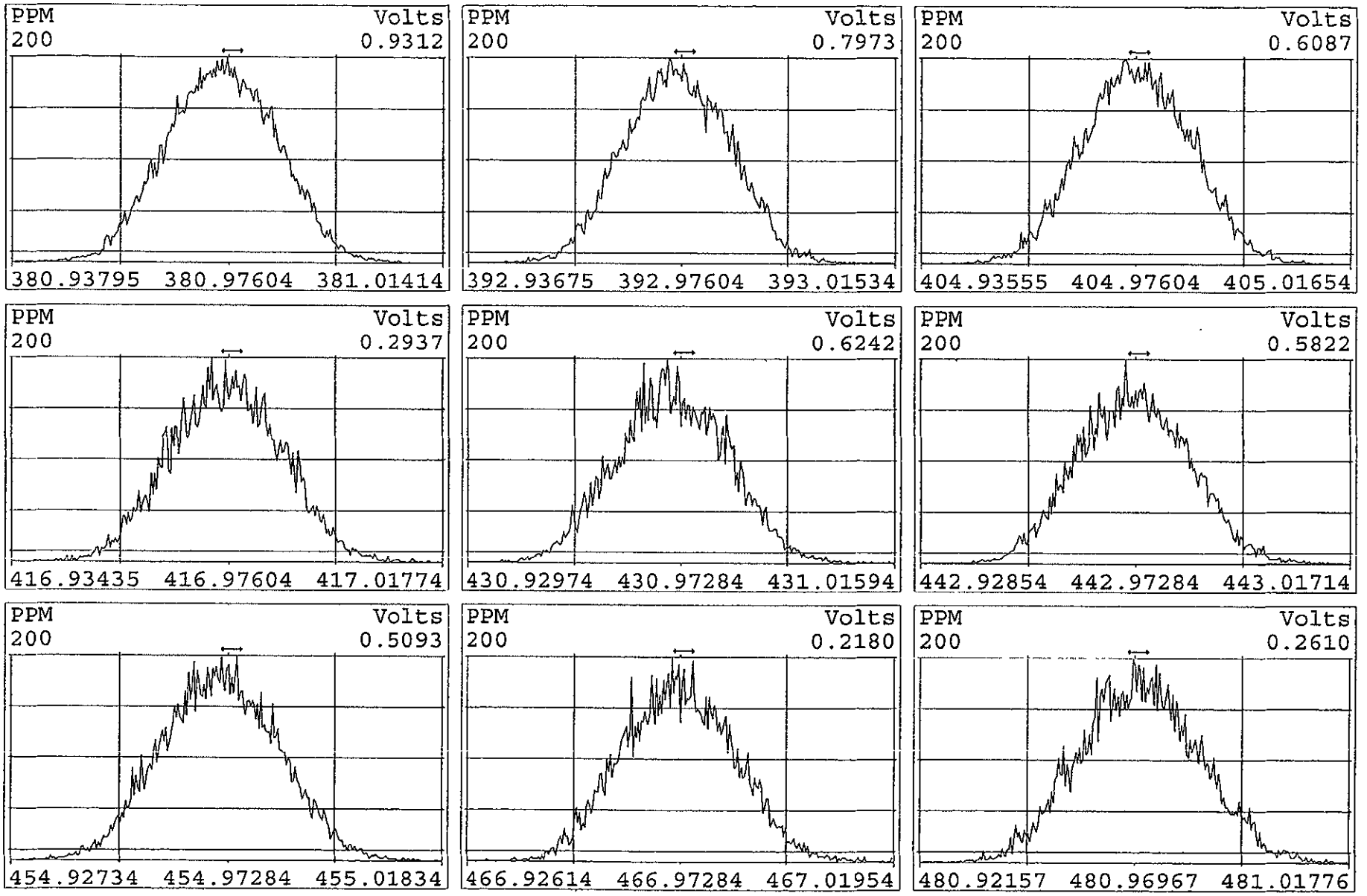




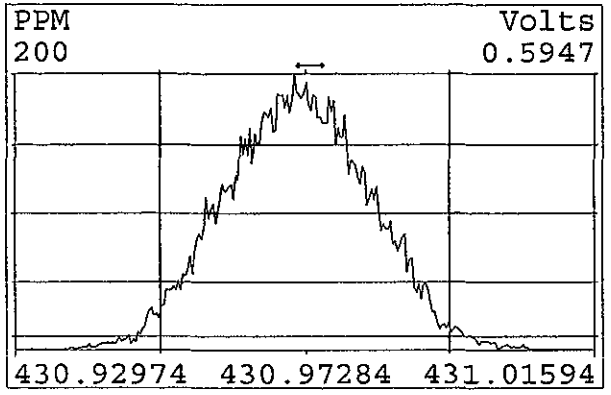


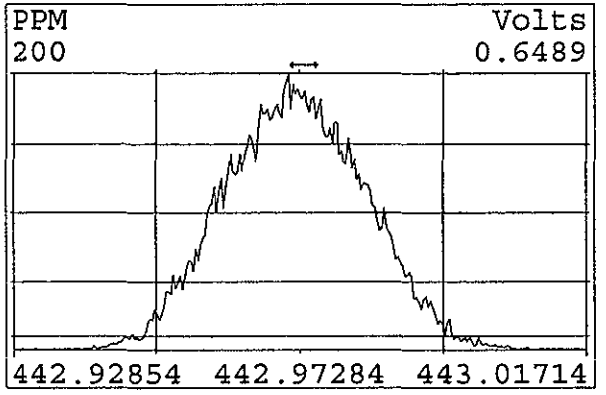


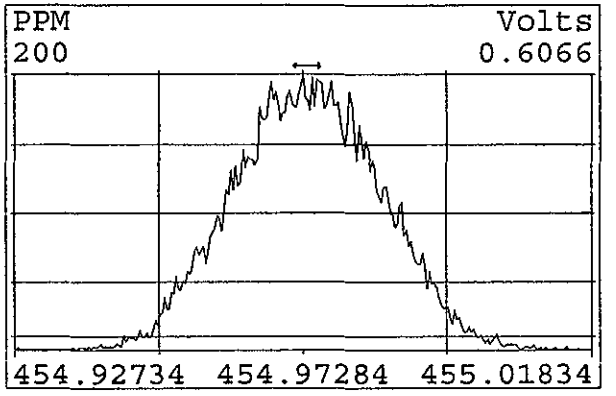
Peak Locate Examination: 8-DEC-2010:08:17 File:07DE104D5ENDRES
Experiment:DIOXINRES Function:4 Reference:PFK

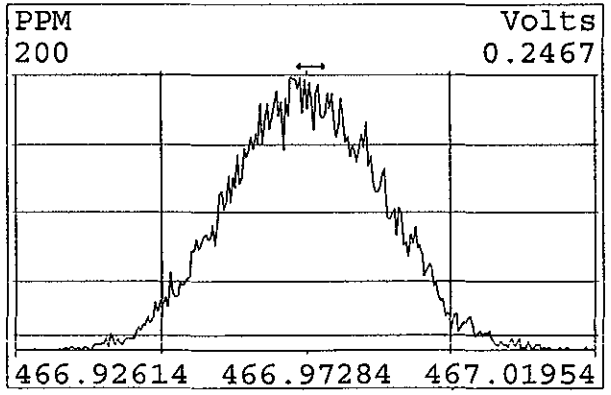


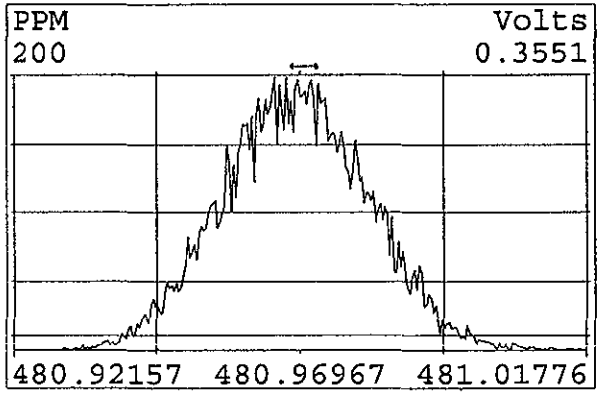
Peak Locate Examination: 8-DEC-2010:08:17 File:07DE104D5ENDRES
Experiment:DIOXINRES Function:5 Reference:PFK

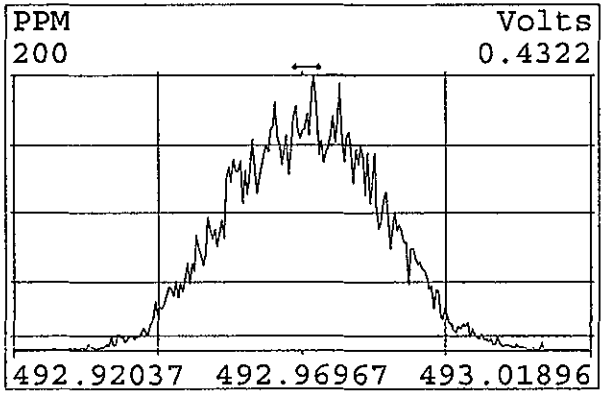


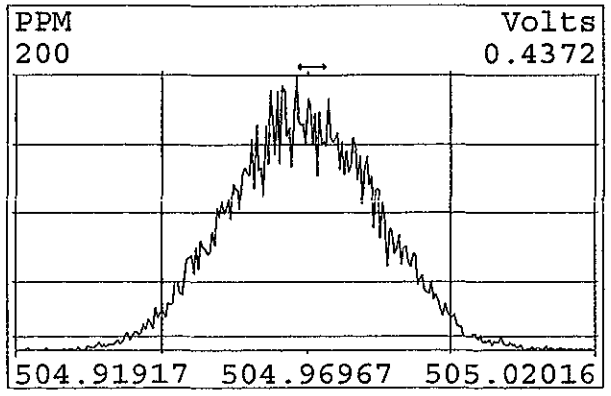


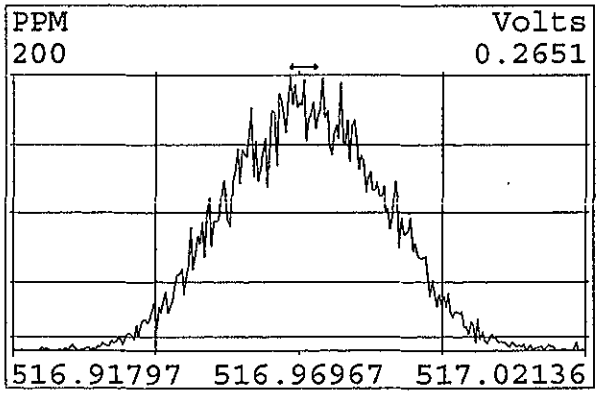


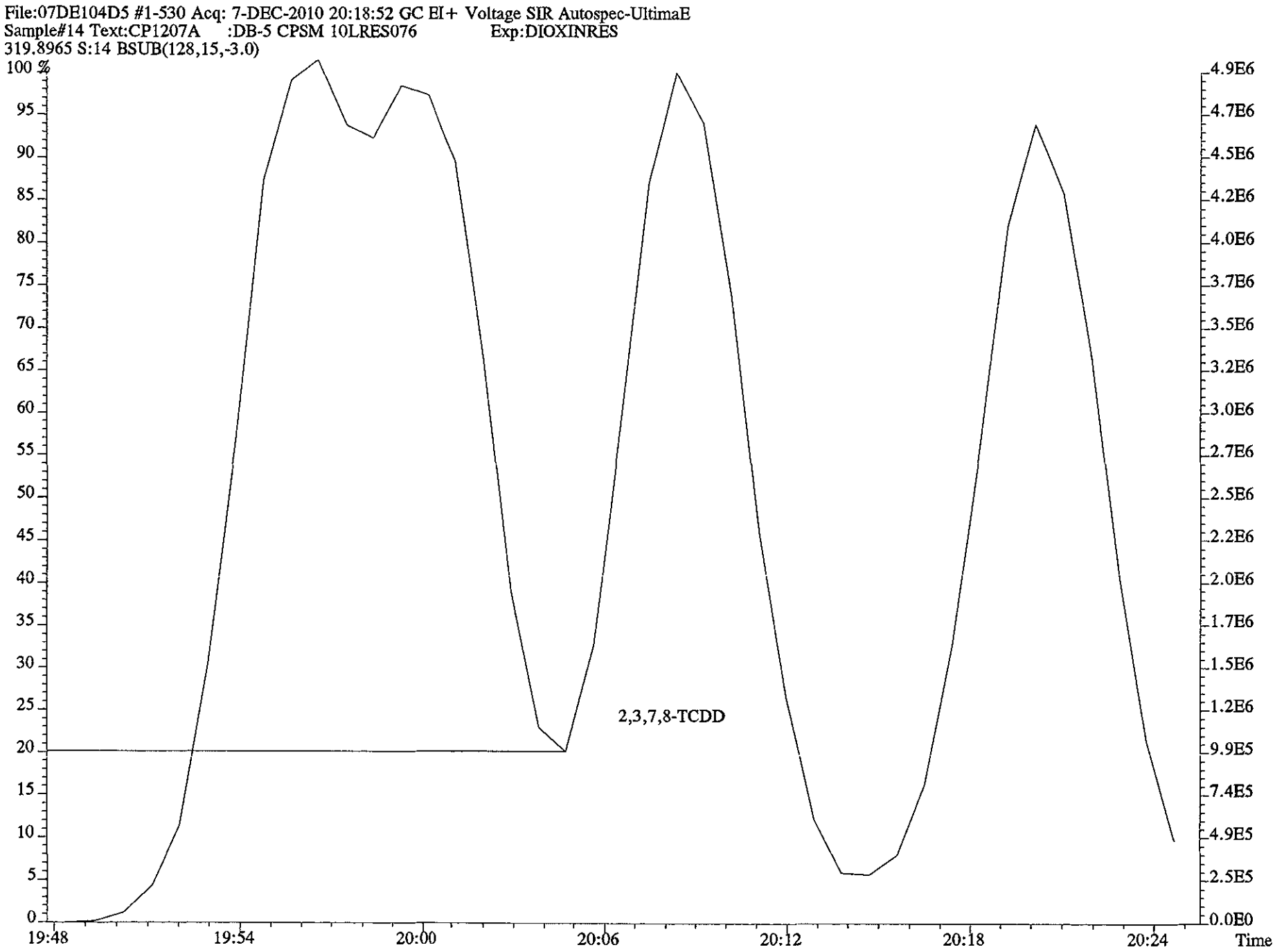











File:07DE104D5 #1-530 Acq: 7-DEC-2010 20:18:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:CP1207A :DB-5 CPSM 10LRES076 Exp:DIOXINRES
319.8965 S:14 BSUB(128,15,-3.0)
100 %
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
4.9E6
4.7E6
4.5E6
4.2E6
4.0E6
3.7E6
3.5E6
3.2E6
3.0E6
2.7E6
2.5E6
2.2E6
2.0E6
1.7E6
1.5E6
1.2E6
9.9E5
7.4E5
4.9E5
2.5E5
0.0E0
2,3,7,8-TCDD
19:48
19:54
20:00
20:06
20:12
20:18
20:24
Time

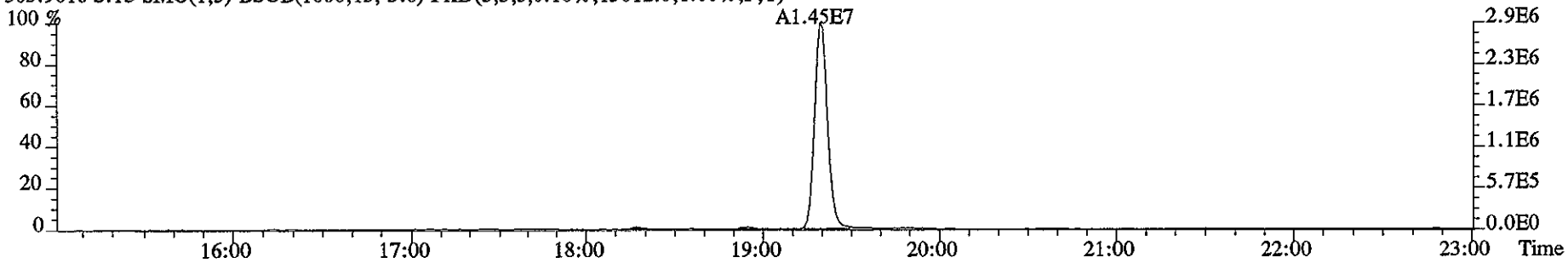
Run: 07DE104D5 Analyte: TO9 Cal: TO90721104D5

ST0721A :CS-1 10DXN342 ST0721B :CS-2 10DXN334 ST0721C :CS-3 10DXN336
ST0721D :CS-5 10DXN339 ST0721E :CS-4 10DXN337

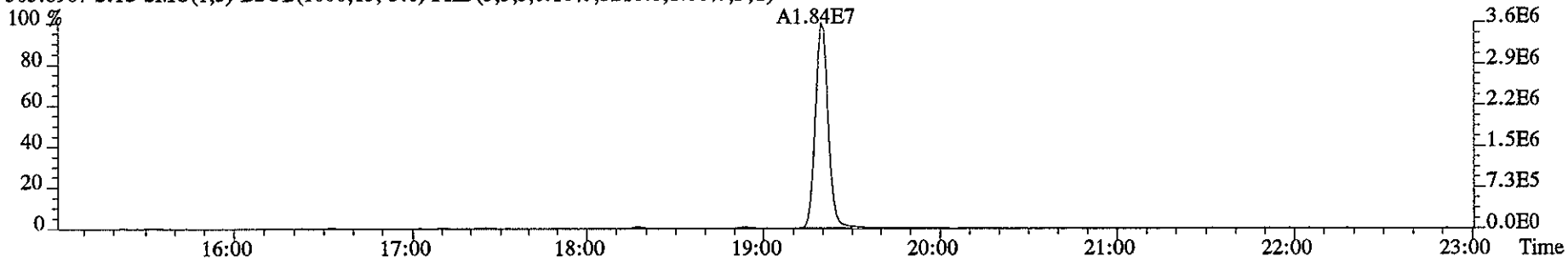
				21JL10A4D5	21JL10A4D5	21JL10A4D5	21JL10A4D5	21JL10A4D5
				S4	S5	S6	S7	S8
Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.229	0.154	12.5 %	1.30	1.31	1.39	1.03	1.11
2,3,7,8-TCDF	0.995	0.037	3.68 %	1.03	0.96	0.98	0.97	1.03
Total TCDF	0.995	0.037	3.68 %	1.03	0.96	0.98	0.97	1.03
13C-2,3,7,8-TCDD	0.905	0.029	3.25 %	0.92	0.92	0.94	0.88	0.87
2,3,7,8-TCDD	0.983	0.032	3.24 %	0.98	0.94	0.97	1.01	1.02
Total TCDD	0.983	0.032	3.24 %	0.98	0.94	0.97	1.01	1.02
37Cl-2,3,7,8-TCDD	1.326	0.015	1.12 %	1.33	1.31	1.32	1.35	1.32
13C-1,2,3,7,8-PeCDF	0.876	0.018	2.08 %	0.86	0.90	0.86	0.89	0.87
1,2,3,7,8-PeCDF	1.077	0.042	3.92 %	1.03	1.04	1.08	1.11	1.12
2,3,4,7,8-PeCDF	1.046	0.040	3.80 %	1.00	1.02	1.08	1.04	1.09
Total F2 PeCDF	1.061	0.039	3.67 %	1.01	1.03	1.08	1.08	1.10
Total F1 PeCDF	1.061	0.039	3.67 %	1.01	1.03	1.08	1.08	1.10
13C-1,2,3,7,8-PeCDD	0.661	0.010	1.45 %	0.65	0.66	0.67	0.67	0.65
1,2,3,7,8-PeCDD	0.925	0.038	4.09 %	0.89	0.88	0.94	0.95	0.97
Total PeCDD	0.925	0.038	4.09 %	0.89	0.88	0.94	0.95	0.97
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-
13C-1,2,3,4,7,8-HxCDF	1.045	0.067	6.44 %	1.03	1.15	0.98	1.00	1.07
1,2,3,4,7,8-HxCDF	1.217	0.012	1.02 %	1.21	1.20	1.22	1.22	1.23
1,2,3,6,7,8-HxCDF	1.282	0.089	6.95 %	1.19	1.22	1.41	1.33	1.26
2,3,4,6,7,8-HxCDF	1.233	0.080	6.49 %	1.19	1.15	1.35	1.27	1.21
1,2,3,7,8,9-HxCDF	1.098	0.096	8.73 %	1.08	0.99	1.25	1.10	1.06
Total HxCDF	1.208	0.066	5.43 %	1.17	1.14	1.31	1.23	1.19
13C-1,2,3,6,7,8-HxCDD	0.831	0.055	6.68 %	0.84	0.83	0.92	0.77	0.79
1,2,3,4,7,8-HxCDD	1.037	0.122	11.8 %	0.90	0.99	0.97	1.17	1.16

1,2,3,6,7,8-HxCDD	1.163	0.060	5.18 %	1.14	1.23	1.10	1.12	1.23
1,2,3,7,8,9-HxCDD	1.182	0.057	4.86 %	1.15	1.16	1.12	1.25	1.24
Total HxCDD	1.127	0.067	5.93 %	1.06	1.12	1.06	1.18	1.21
13C-1,2,3,4,6,7,8-HpCDF	0.910	0.051	5.65 %	0.99	0.91	0.92	0.87	0.86
1,2,3,4,6,7,8-HpCDF	1.346	0.027	1.99 %	1.31	1.34	1.35	1.35	1.38
1,2,3,4,7,8,9-HpCDF	1.093	0.049	4.49 %	1.01	1.09	1.11	1.13	1.13
Total HpCDF	1.220	0.037	3.05 %	1.16	1.21	1.23	1.24	1.26
13C-1,2,3,4,6,7,8-HpCDD	0.827	0.049	5.98 %	0.89	0.85	0.83	0.76	0.79
1,2,3,4,6,7,8-HpCDD	1.072	0.028	2.61 %	1.07	1.03	1.07	1.09	1.10
Total HpCDD	1.072	0.028	2.61 %	1.07	1.03	1.07	1.09	1.10
13C-OCDD	0.620	0.029	4.60 %	0.66	0.63	0.63	0.60	0.59
OCDF	1.370	0.027	1.98 %	1.36	1.35	1.35	1.39	1.41
OCDD	1.199	0.066	5.48 %	1.31	1.17	1.16	1.17	1.19

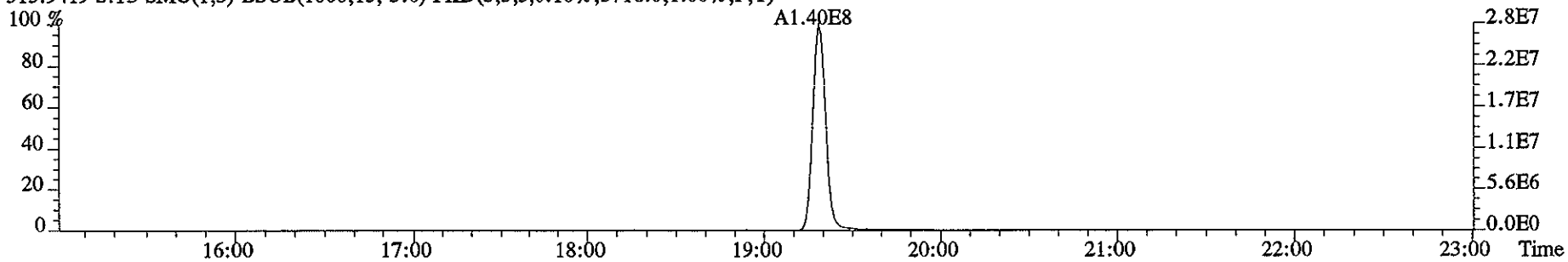
File:07DE104D5 #1-530 Acq: 7-DEC-2010 21:03:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1207B :CS3 10DXN461 Exp:DIOXINRES
303.9016 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13012.0,1.00%,F,T)



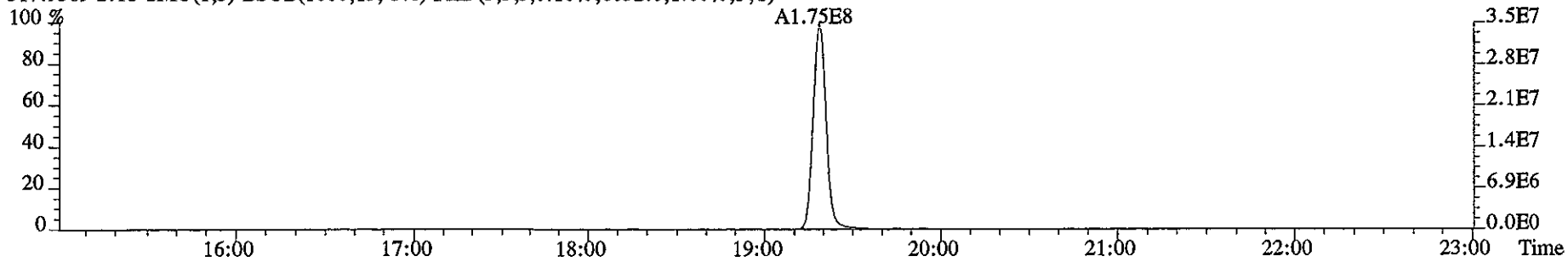
305.8987 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5216.0,1.00%,F,T)



315.9419 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5716.0,1.00%,F,T)

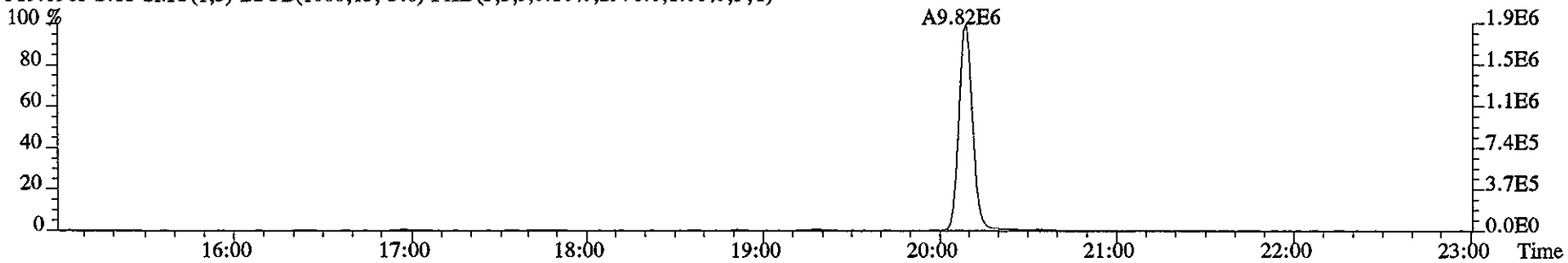


317.9389 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6032.0,1.00%,F,T)

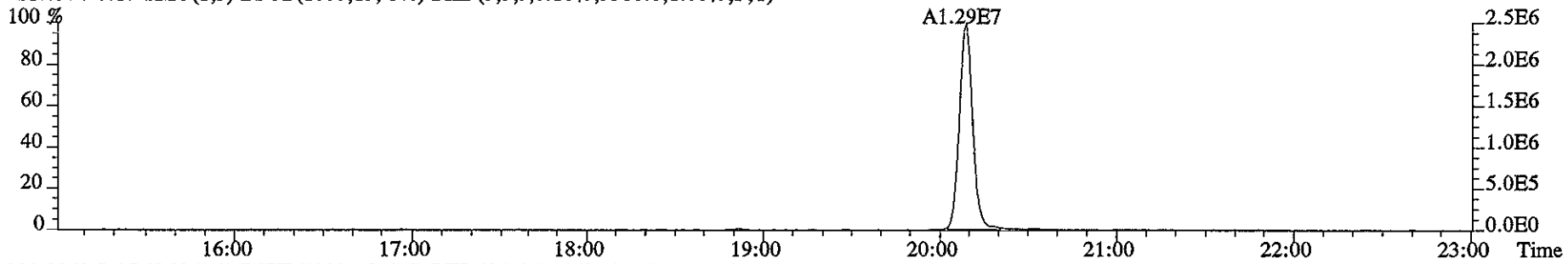


File:07DE104D5 #1-530 Acq: 7-DEC-2010 21:03:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1207B :CS3 10DXN461 Exp:DIOXINRES

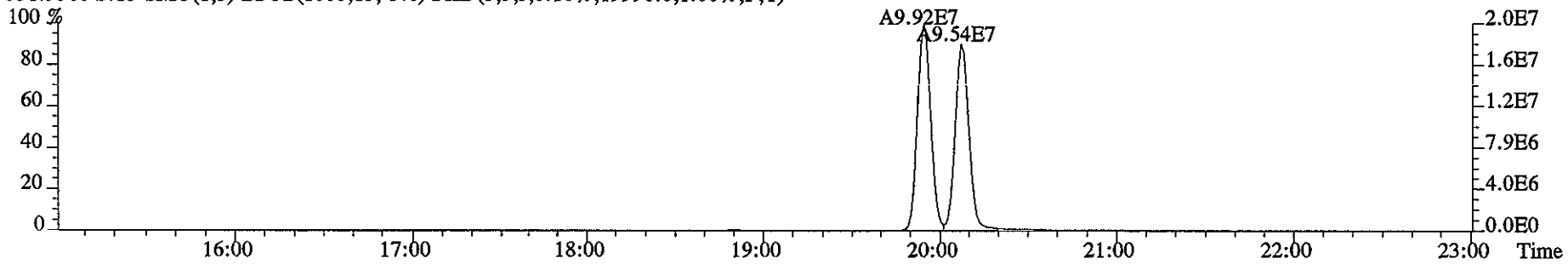
319.8965 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2976.0,1.00%,F,T)



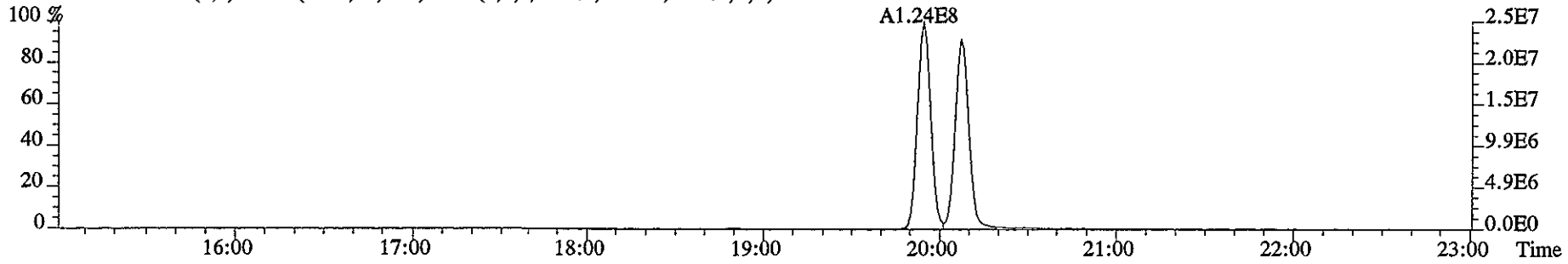
321.8936 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3380.0,1.00%,F,T)



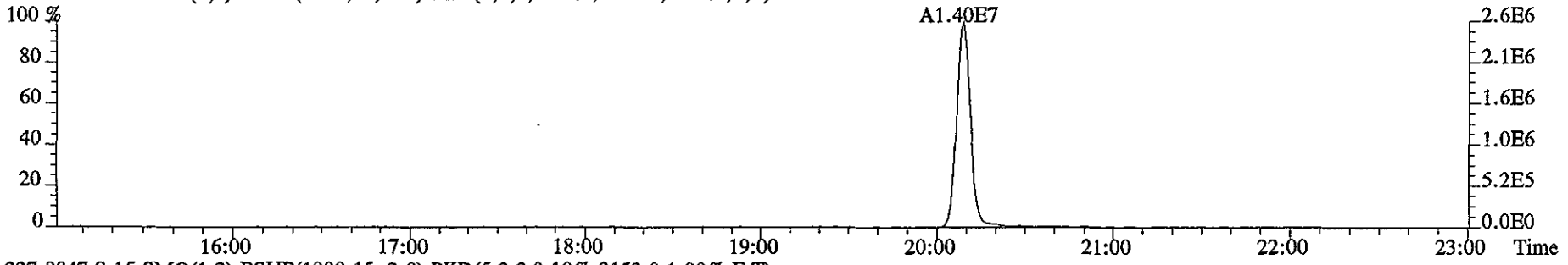
331.9368 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19996.0,1.00%,F,T)



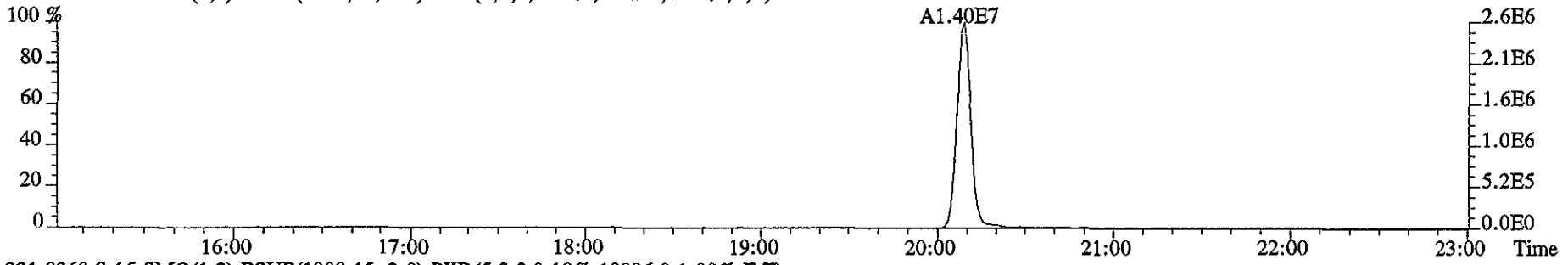
333.9339 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5628.0,1.00%,F,T)



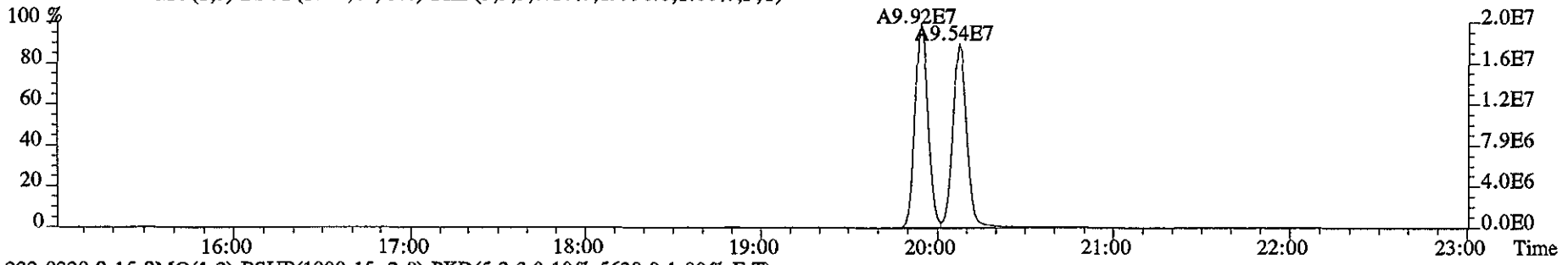
File:07DE104D5 #1-530 Acq: 7-DEC-2010 21:03:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1207B :CS3 10DXN461 Exp:DIOXINRES
327.8847 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2152.0,1.00%,F,T)



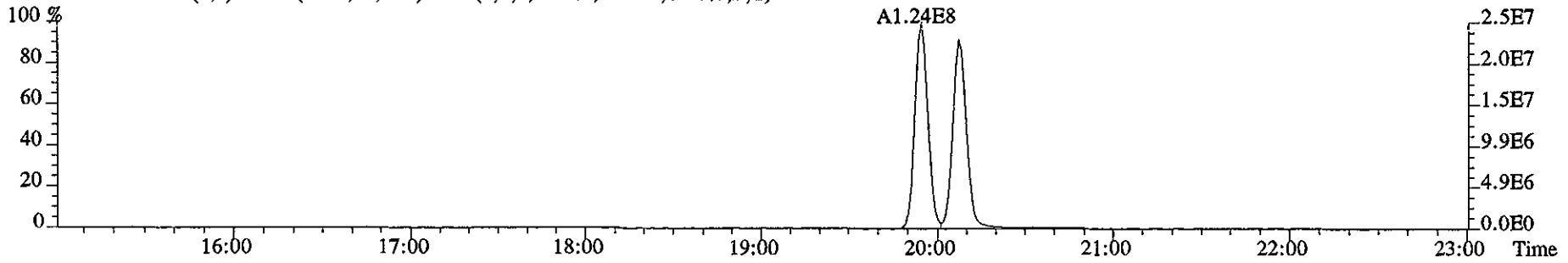
327.8847 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2152.0,1.00%,F,T)



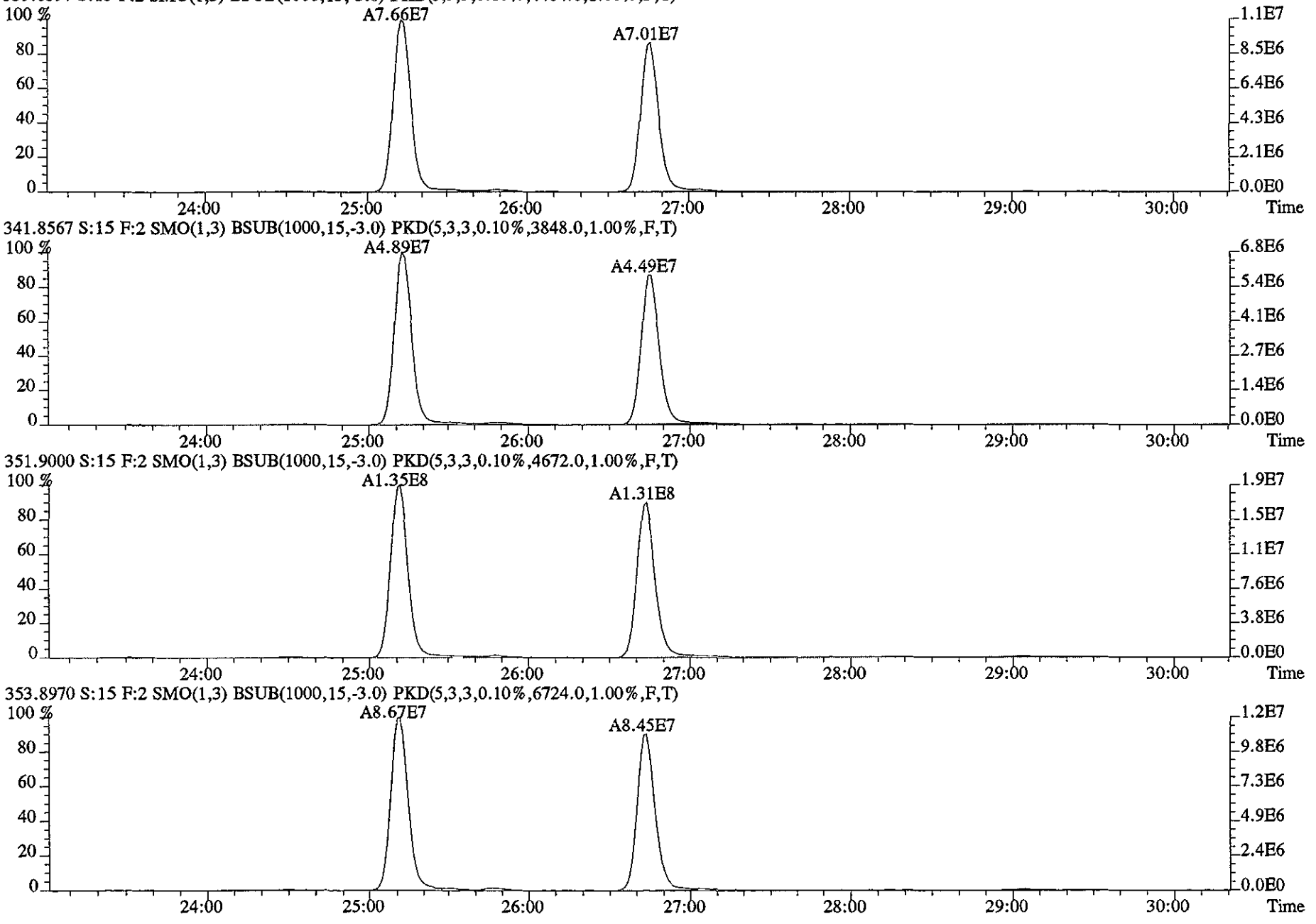
331.9368 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19996.0,1.00%,F,T)



333.9339 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5628.0,1.00%,F,T)

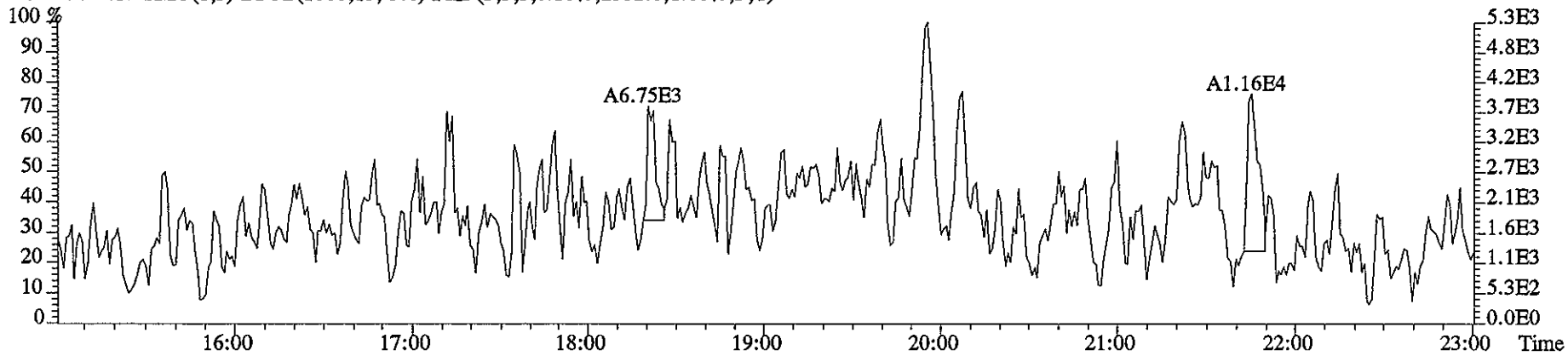


File:07DE104D5 #1-470 Acq: 7-DEC-2010 21:03:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1207B :CS3 10DXN461 Exp:DIOXINRES

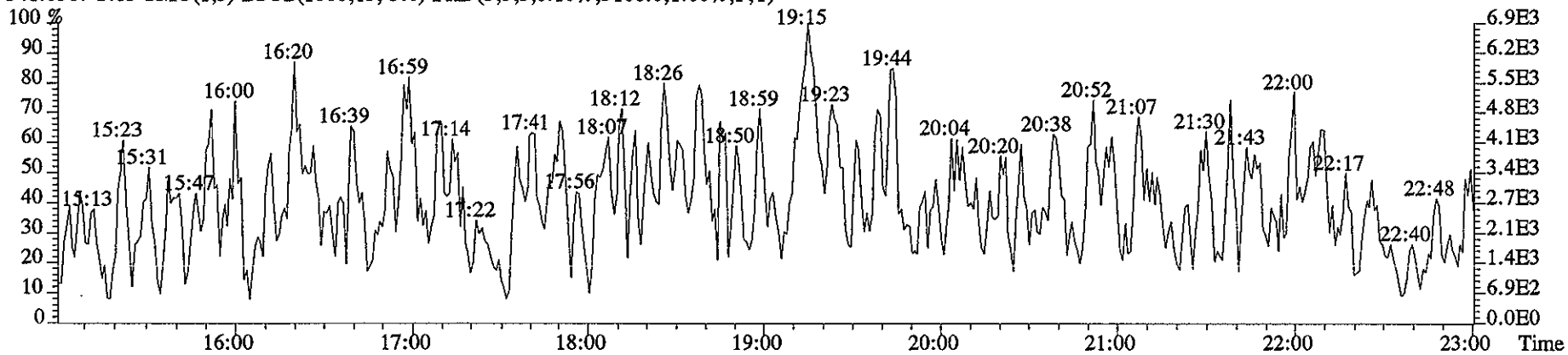


File:07DE104D5 #1-530 Acq: 7-DEC-2010 21:03:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1207B :CS3 10DXN461 Exp:DIOXINRES

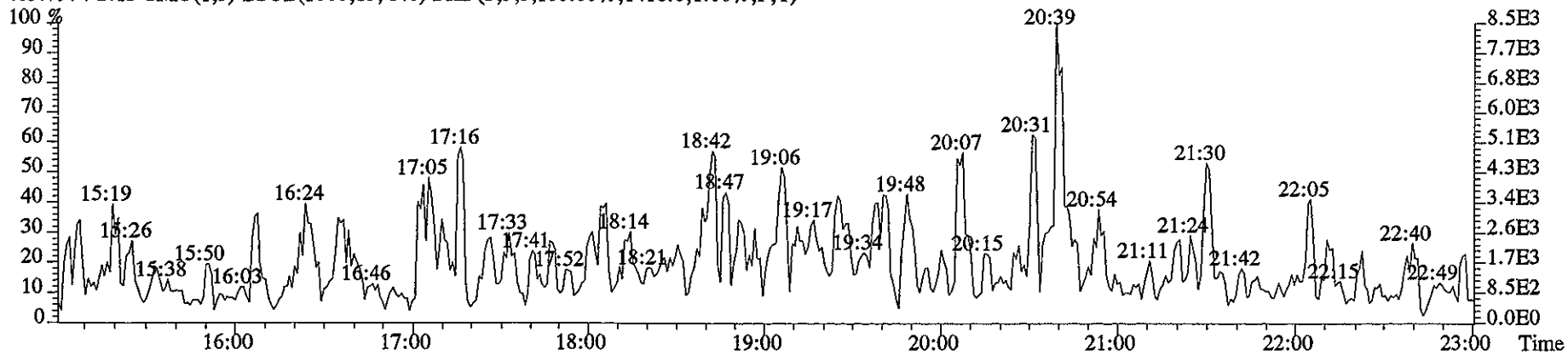
339.8597 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2352.0,1.00%,F,T)



341.8567 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3188.0,1.00%,F,T)

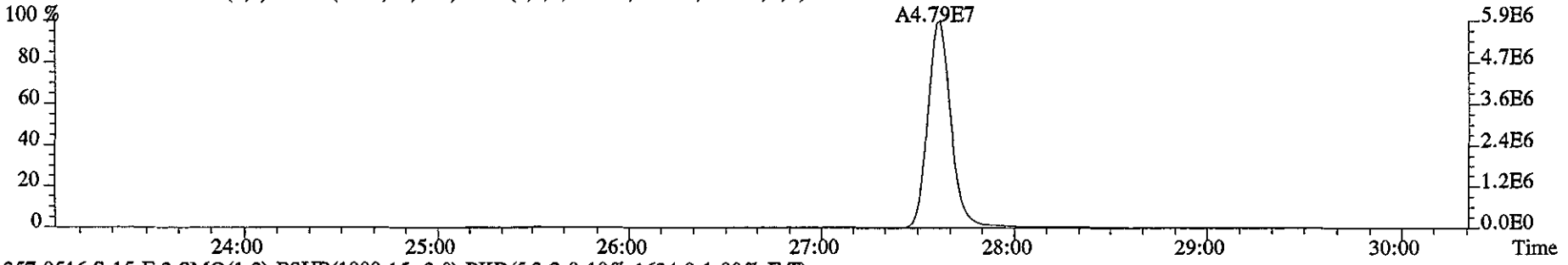


409.7974 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1416.0,1.00%,F,T)

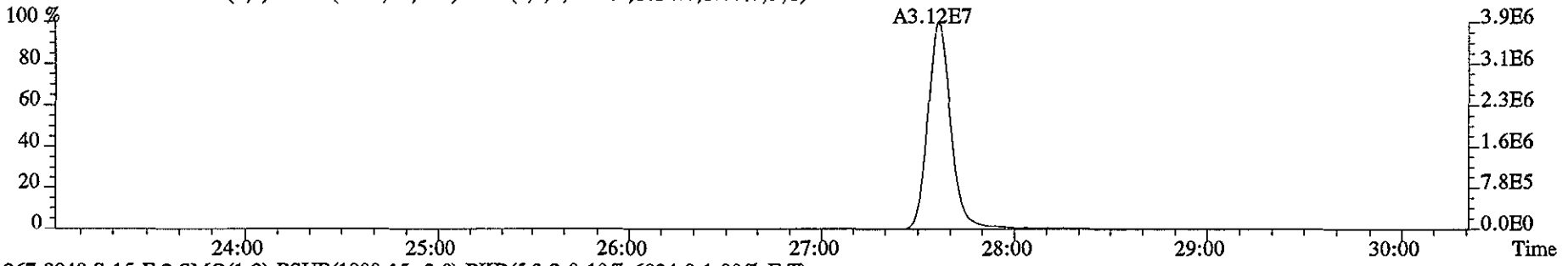


File:07DE104D5 #1-470 Acq: 7-DEC-2010 21:03:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1207B :CS3 10DXN461 Exp:DIOXINRES

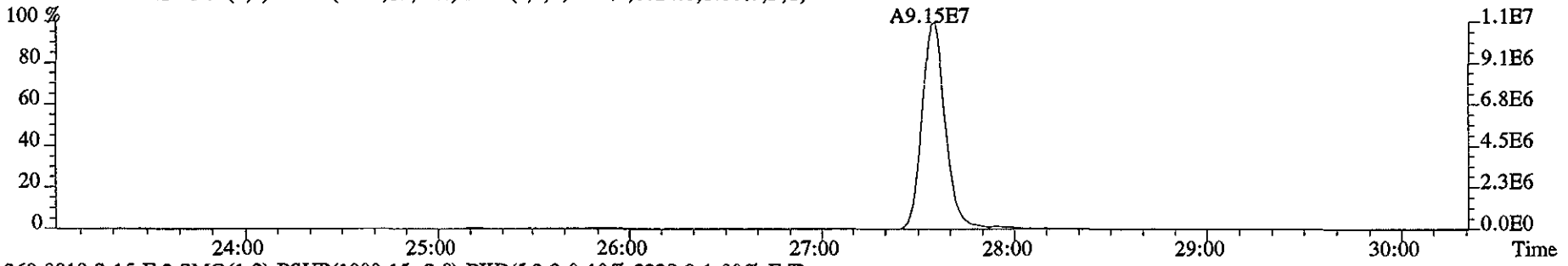
355.8546 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4040.0,1.00%,F,T)



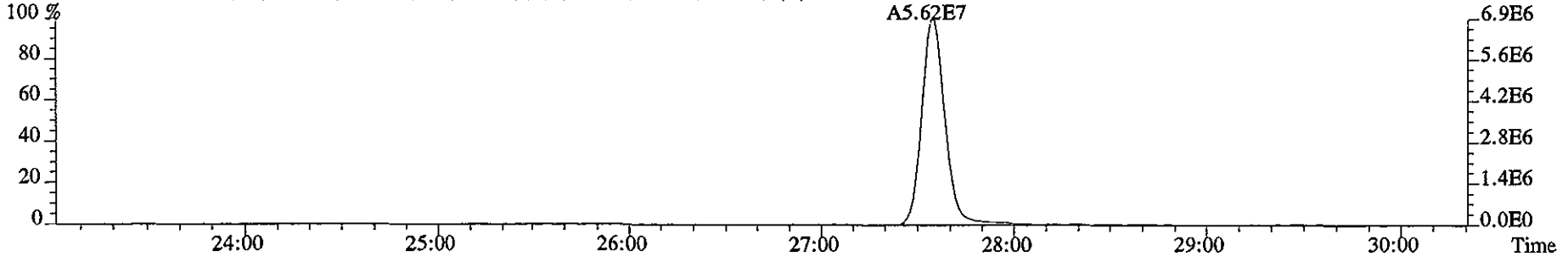
357.8516 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1624.0,1.00%,F,T)



367.8949 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6024.0,1.00%,F,T)

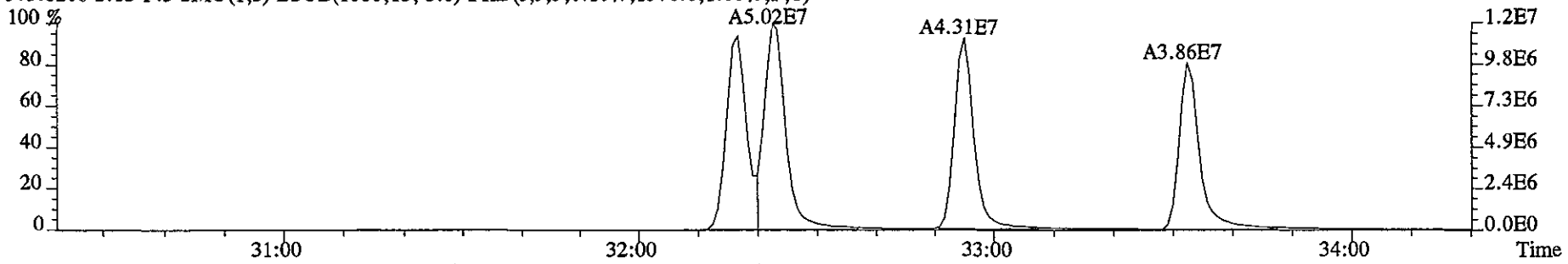


369.8919 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3328.0,1.00%,F,T)

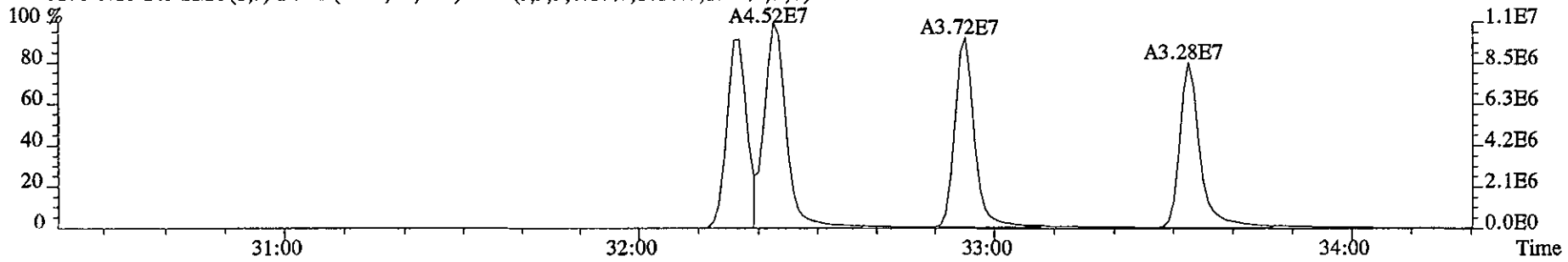


File:07DE104D5 #1-286 Acq: 7-DEC-2010 21:03:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1207B :CS3 10DXN461 Exp:DIOXINRES

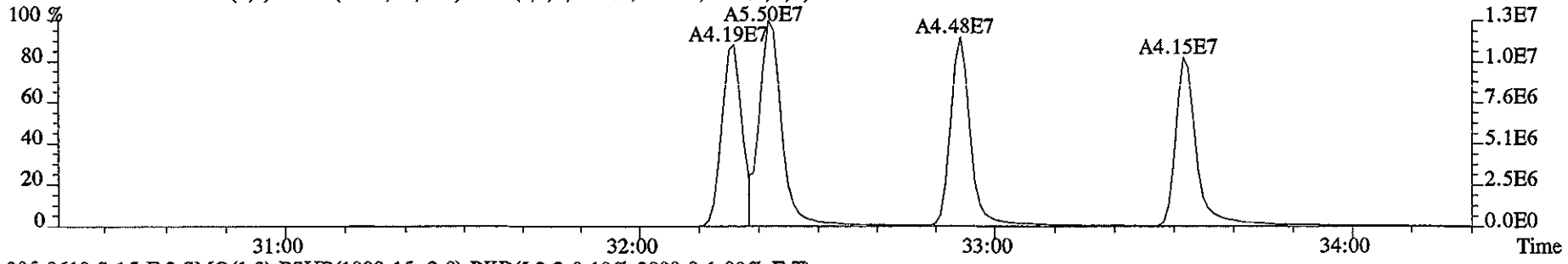
373.8208 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1376.0,1.00%,F,T)



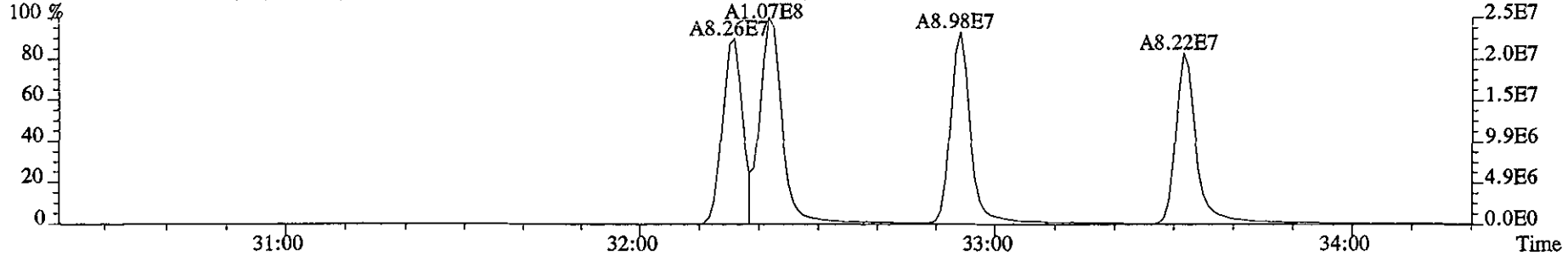
375.8178 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1020.0,1.00%,F,T)



383.8639 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2740.0,1.00%,F,T)

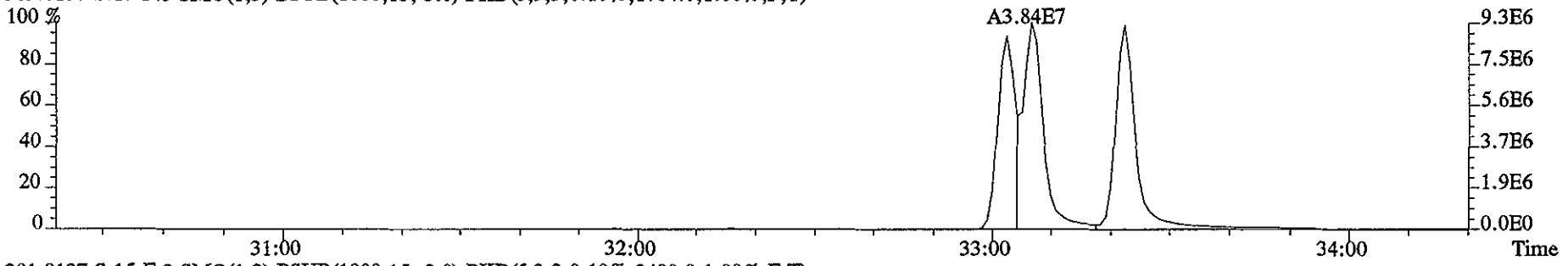


385.8610 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3908.0,1.00%,F,T)

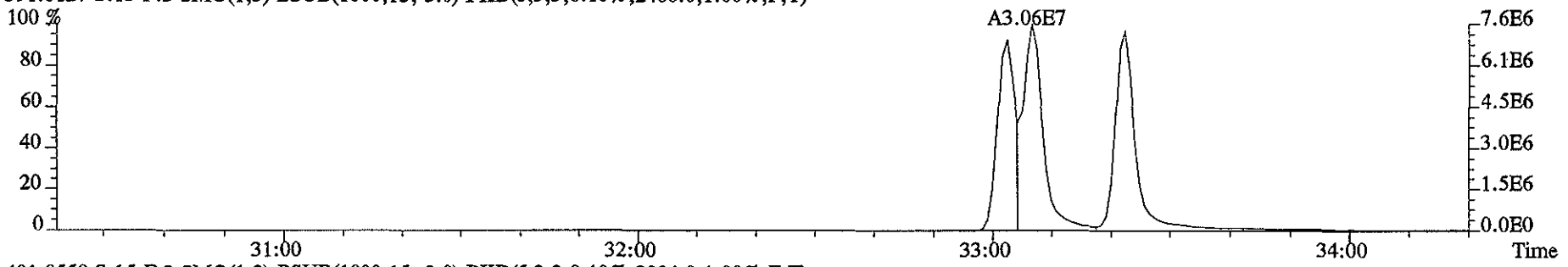


File:07DE104D5 #1-286 Acq: 7-DEC-2010 21:03:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1207B :CS3 10DXN461 Exp:DIOXINRES

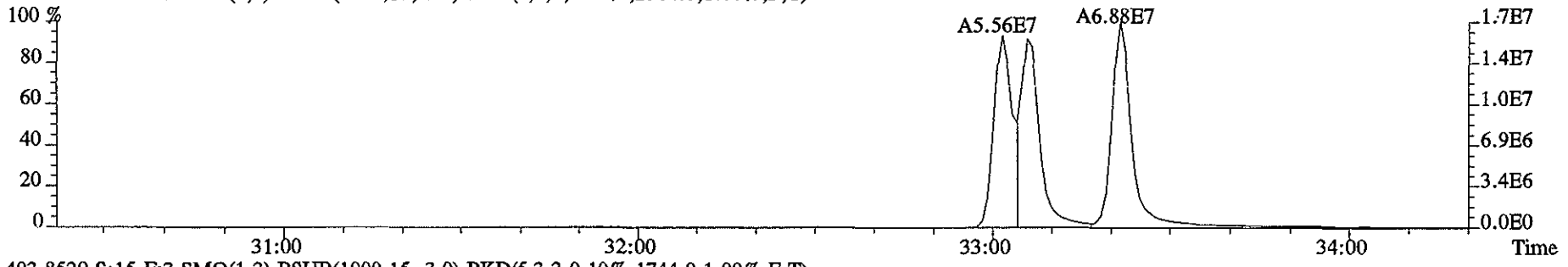
389.8157 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1784.0,1.00%,F,T)



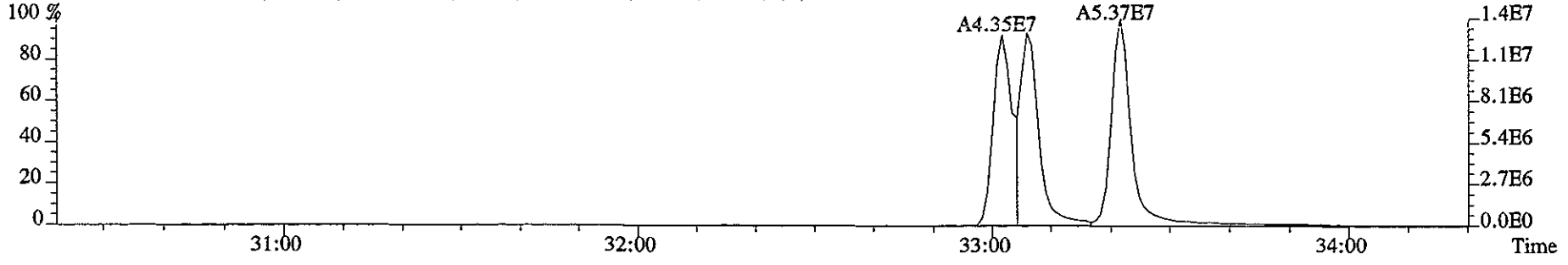
391.8127 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2480.0,1.00%,F,T)



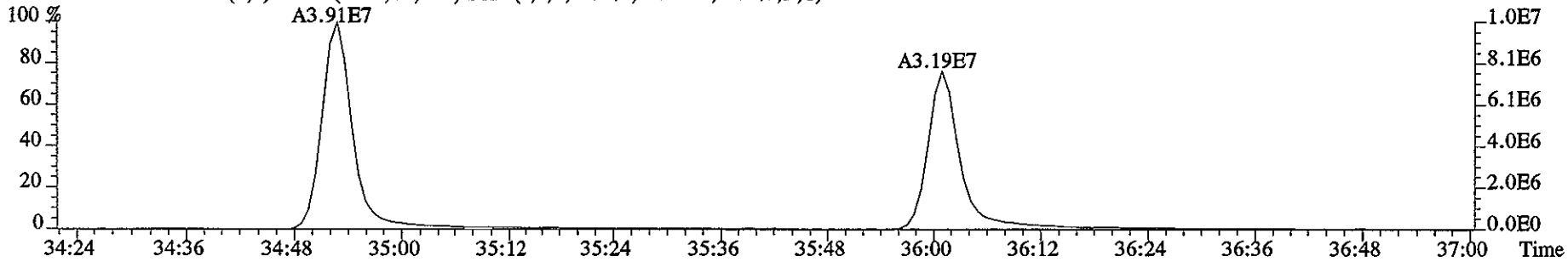
401.8559 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2384.0,1.00%,F,T)



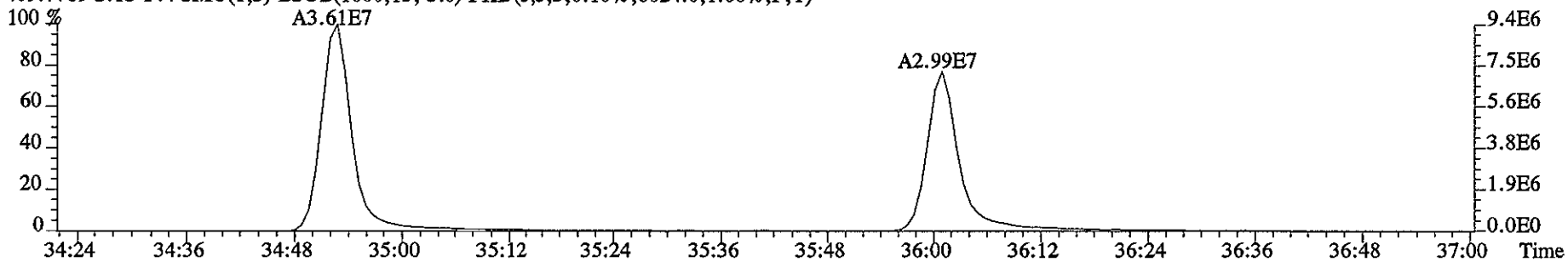
403.8529 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1744.0,1.00%,F,T)



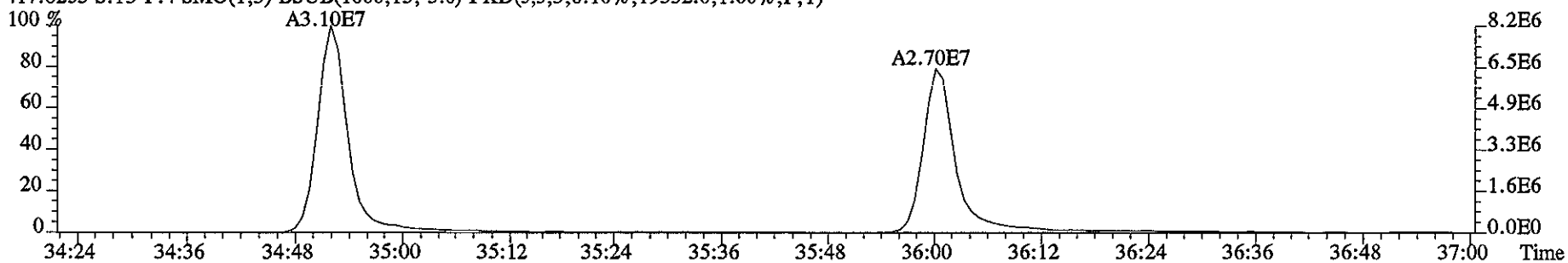
File:07DE104D5 #1-201 Acq: 7-DEC-2010 21:03:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1207B :CS3 10DXN461 Exp:DIOXINRES
407.7818 S:15 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15264.0,1.00%,F,T)



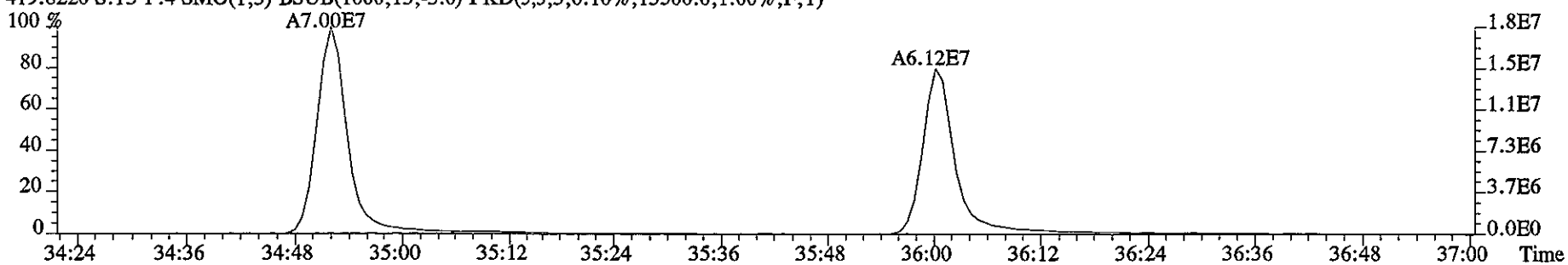
409.7789 S:15 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6024.0,1.00%,F,T)



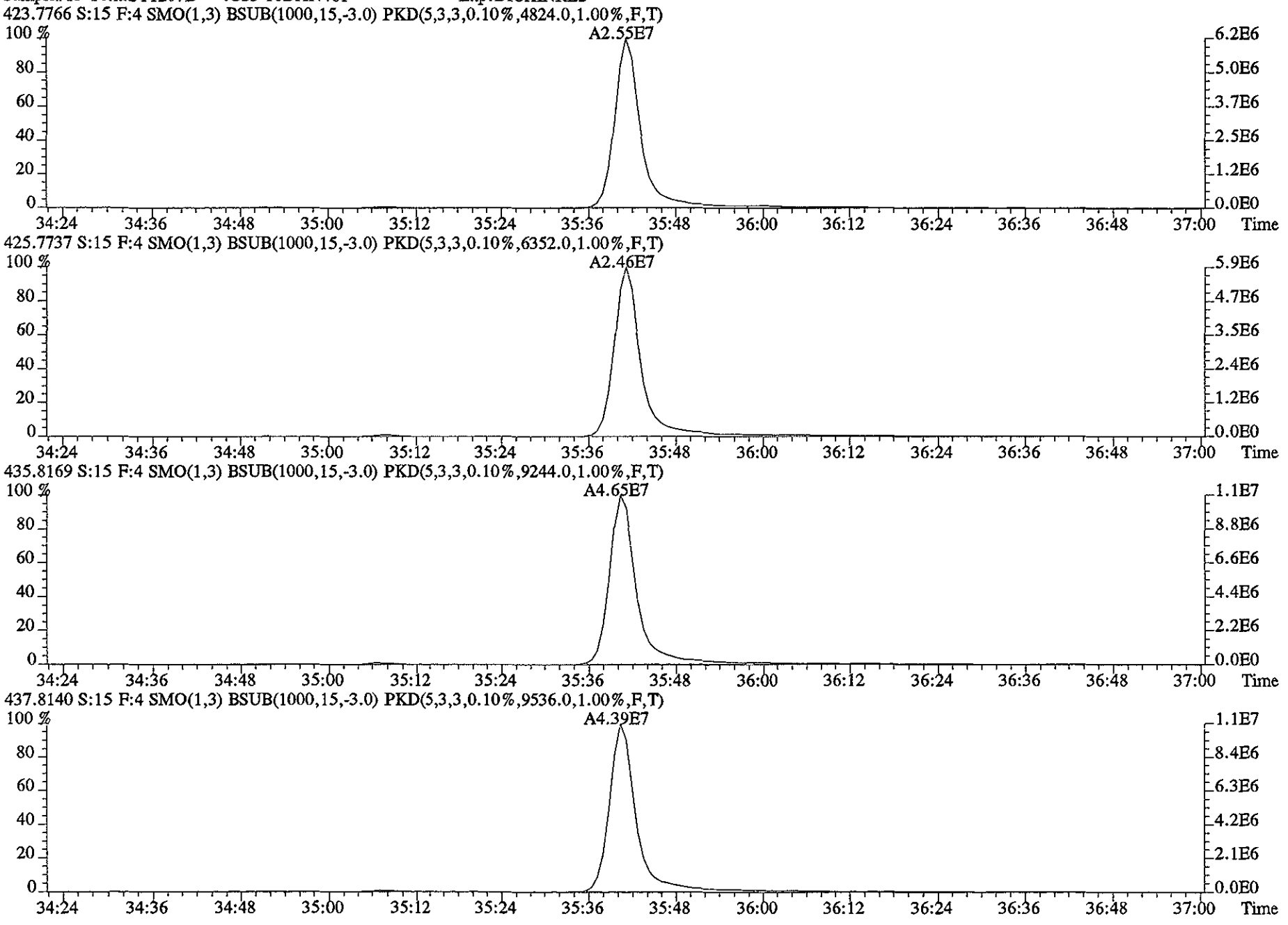
417.8253 S:15 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19552.0,1.00%,F,T)



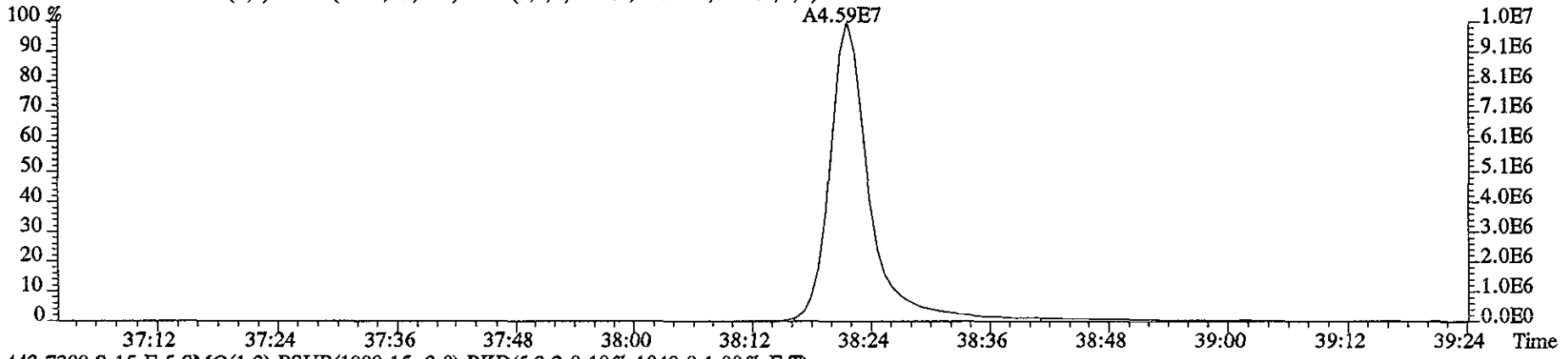
419.8220 S:15 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13500.0,1.00%,F,T)



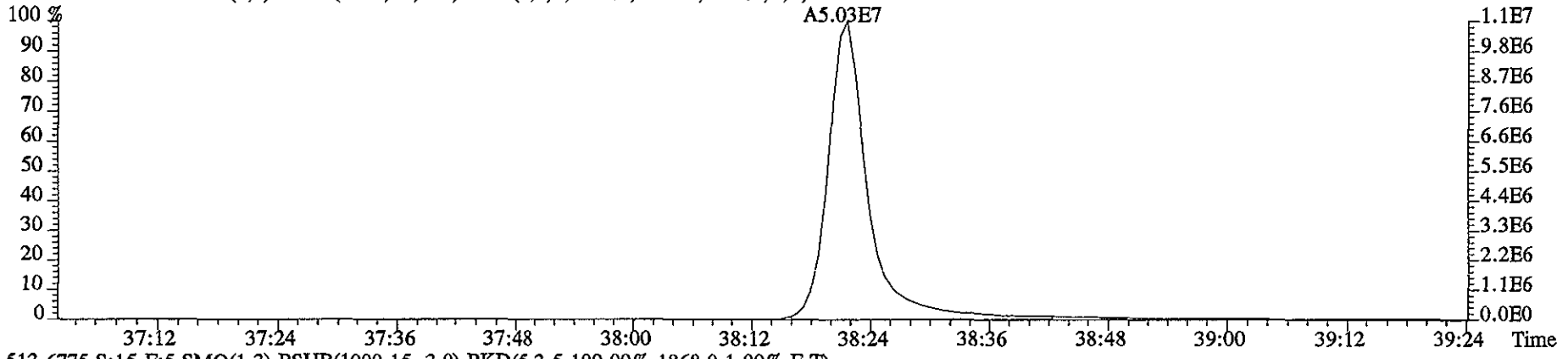
File:07DE104D5 #1-201 Acq: 7-DEC-2010 21:03:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1207B :CS3 10DXN461 Exp:DIOXINRES



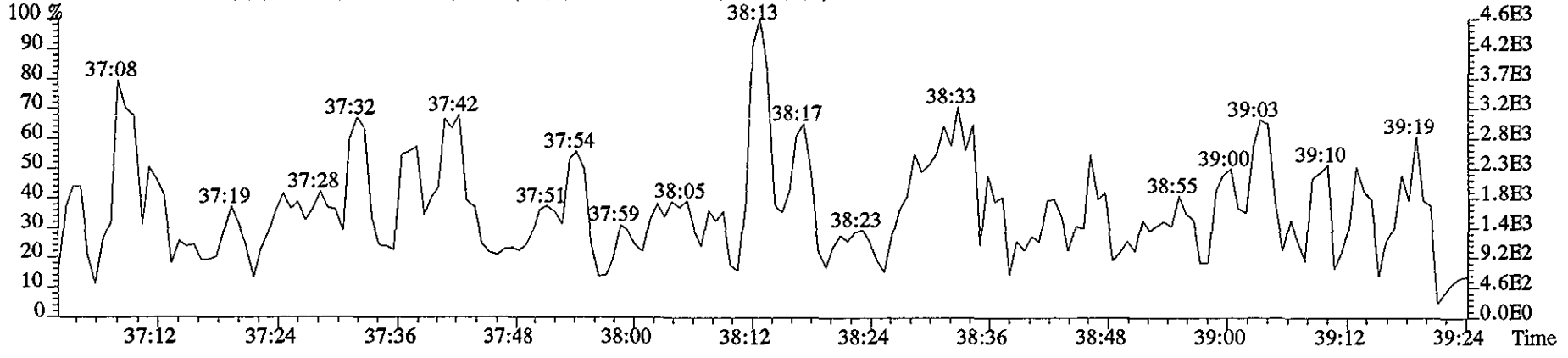
File:07DE104D5 #1-192 Acq: 7-DEC-2010 21:03:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1207B :CS3 10DXN461 Exp:DIOXINRES
441.7428 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10432.0,1.00%,F,T)



443.7399 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1848.0,1.00%,F,T)

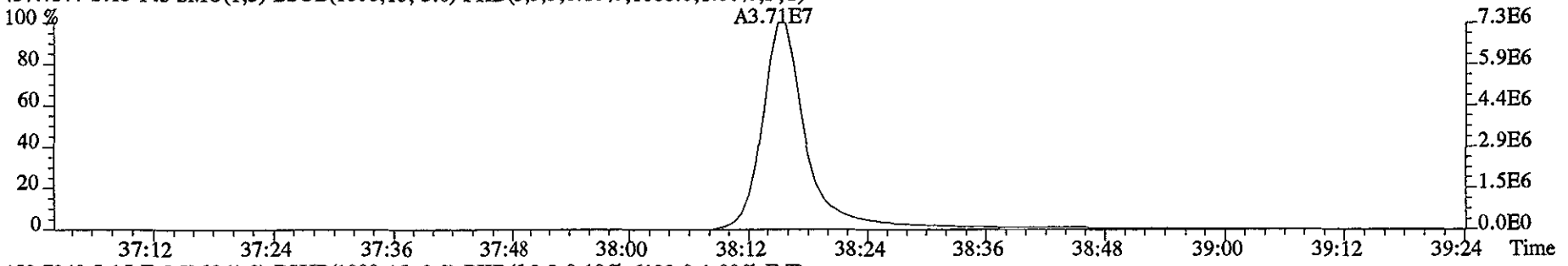


513.6775 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,1868.0,1.00%,F,T)

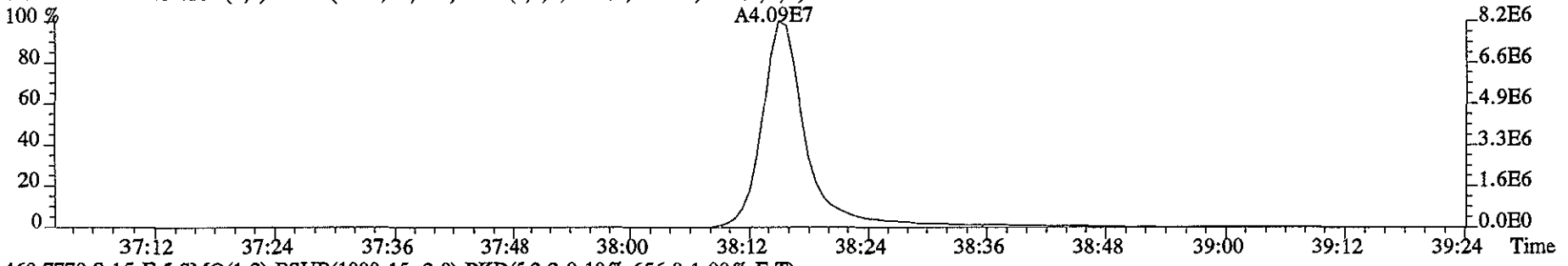


File:07DE104D5 #1-192 Acq: 7-DEC-2010 21:03:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1207B :CS3 10DXN461 Exp:DIOXINRES

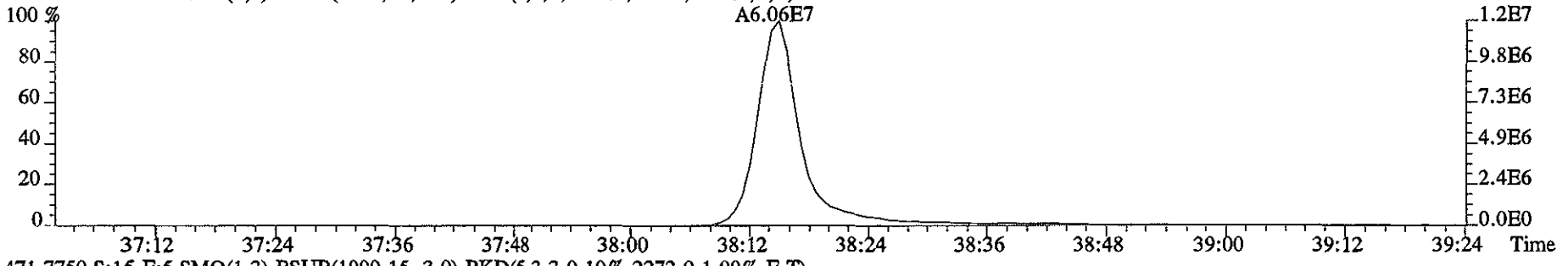
457.7377 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1088.0,1.00%,F,T)



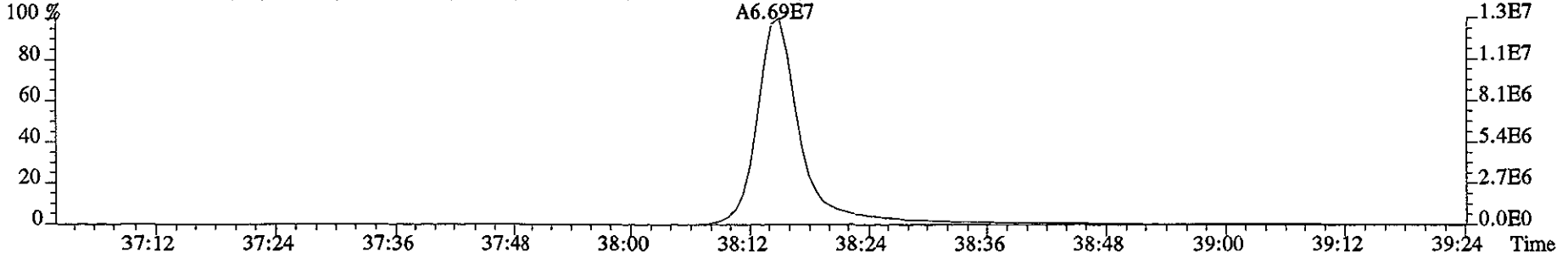
459.7348 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6132.0,1.00%,F,T)



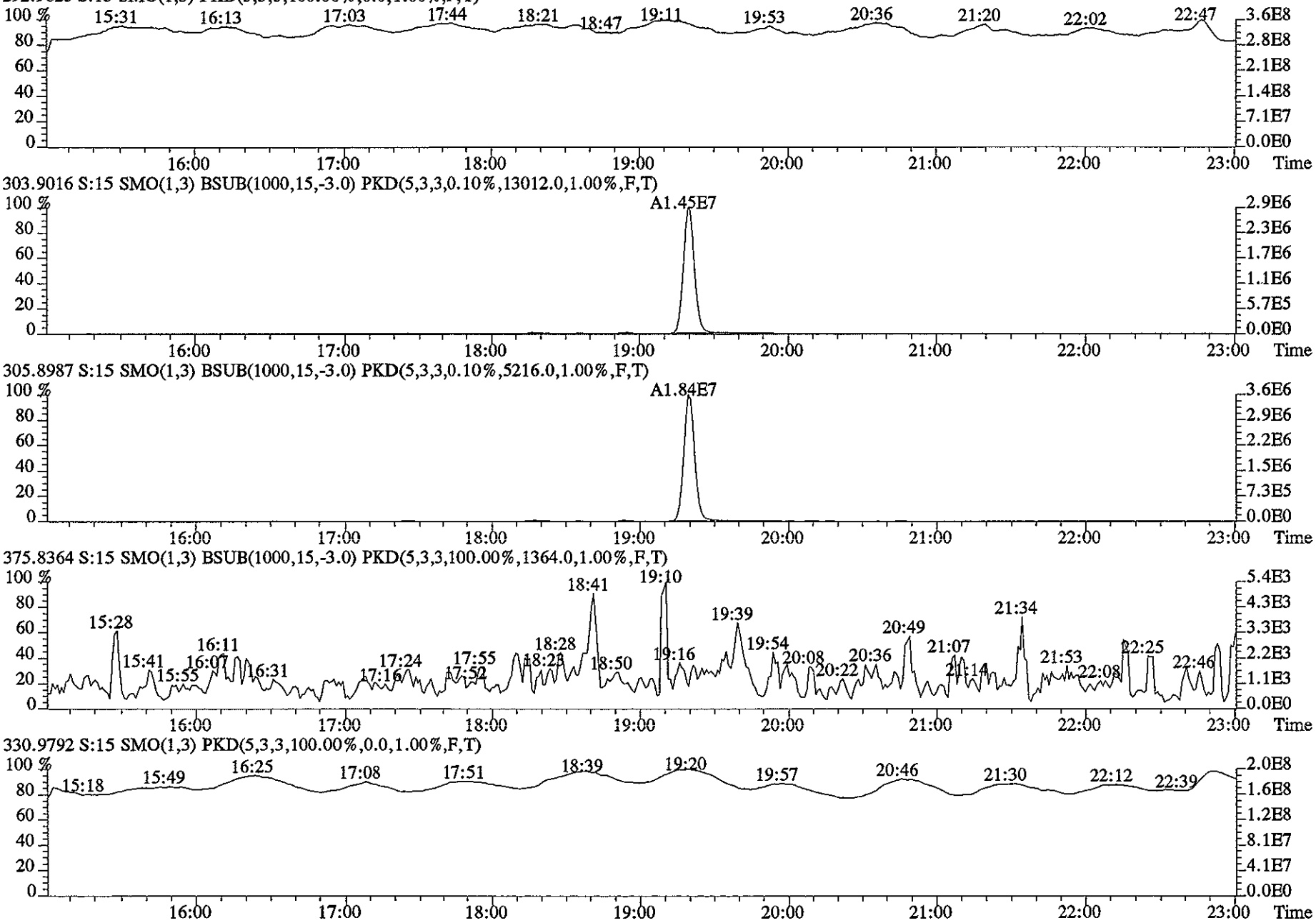
469.7779 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,656.0,1.00%,F,T)



471.7750 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2272.0,1.00%,F,T)

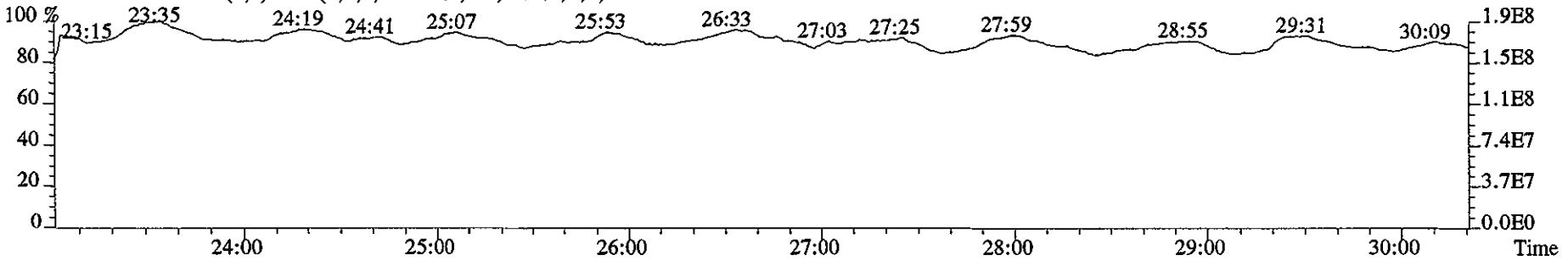


File:07DE104D5 #1-530 Acq: 7-DEC-2010 21:03:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1207B :CS3 10DXN461 Exp:DIOXINRES

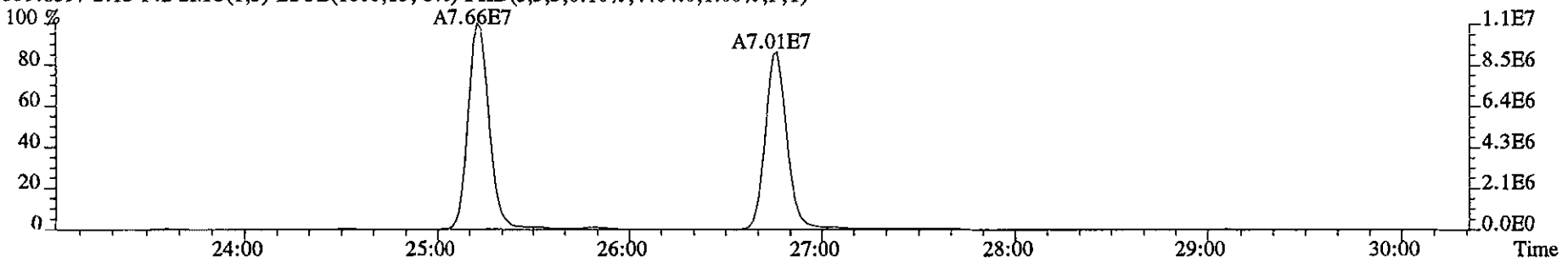


File:07DE104D5 #1-470 Acq: 7-DEC-2010 21:03:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1207B :CS3 10DXN461 Exp:DIOXINRES

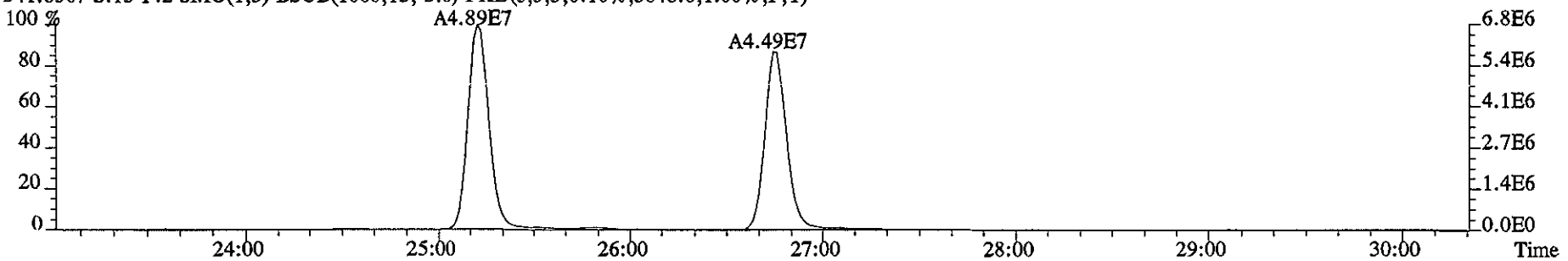
342.9792 S:15 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



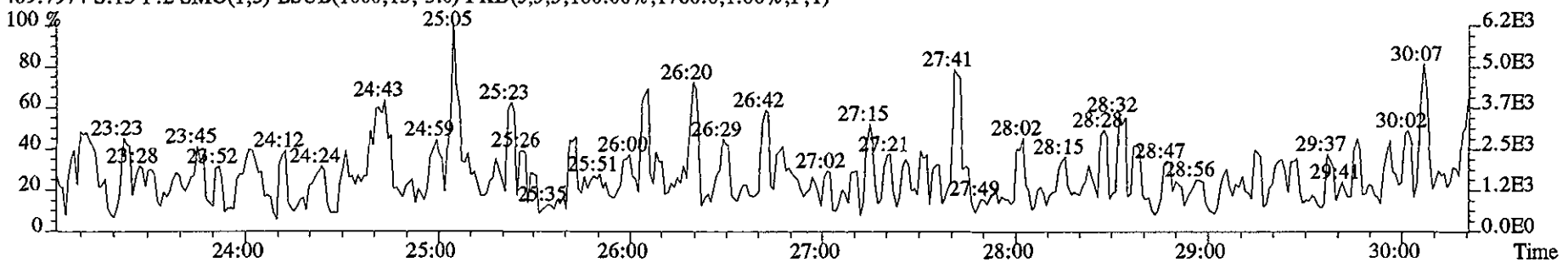
339.8597 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4404.0,1.00%,F,T)



341.8567 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3848.0,1.00%,F,T)

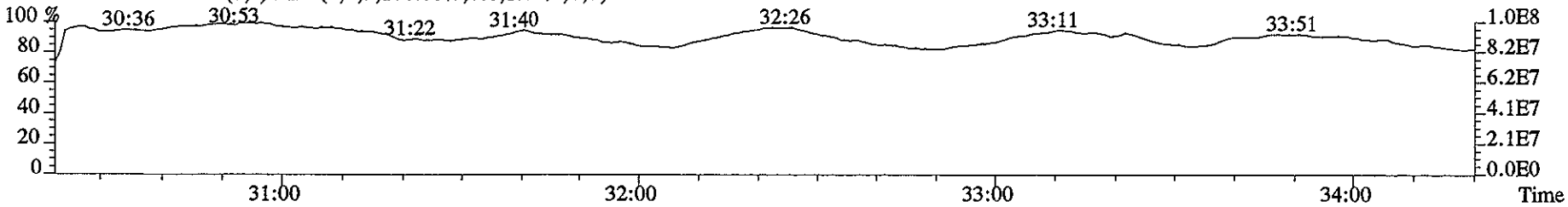


409.7974 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1760.0,1.00%,F,T)

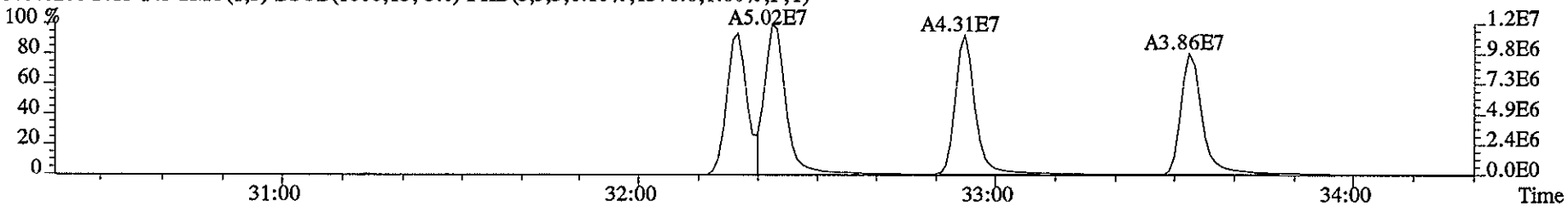


File:07DE104D5 #1-286 Acq: 7-DEC-2010 21:03:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1207B :CS3 10DXN461 Exp:DIOXINRES

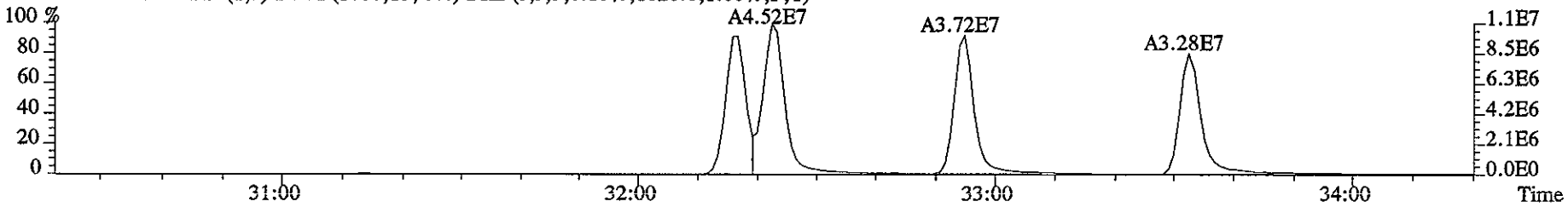
392.9760 S:15 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



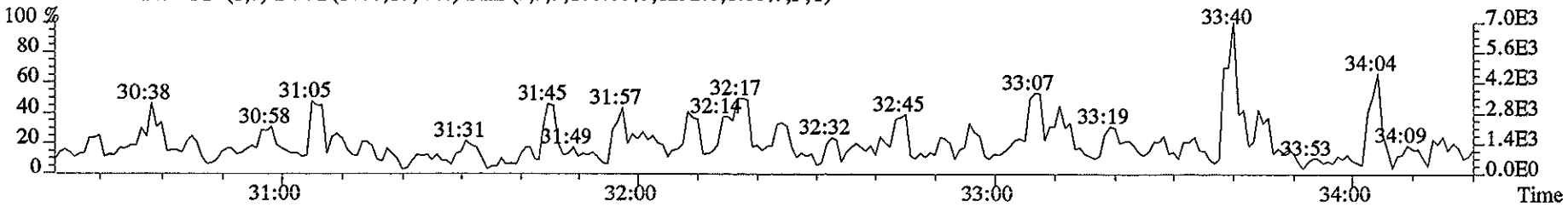
373.8208 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1376.0,1.00%,F,T)



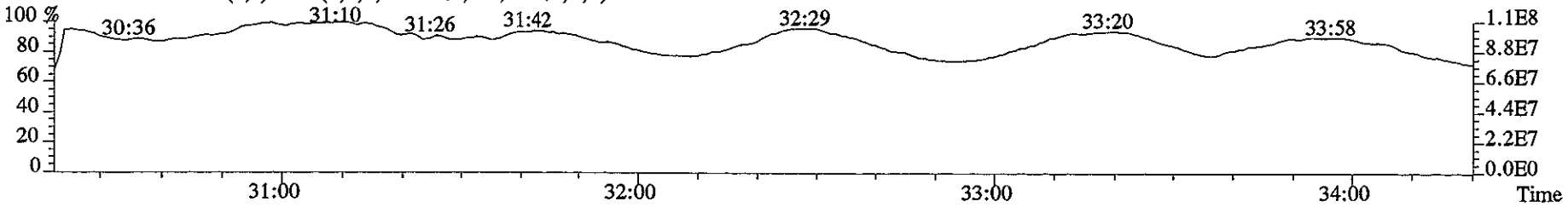
375.8178 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1020.0,1.00%,F,T)



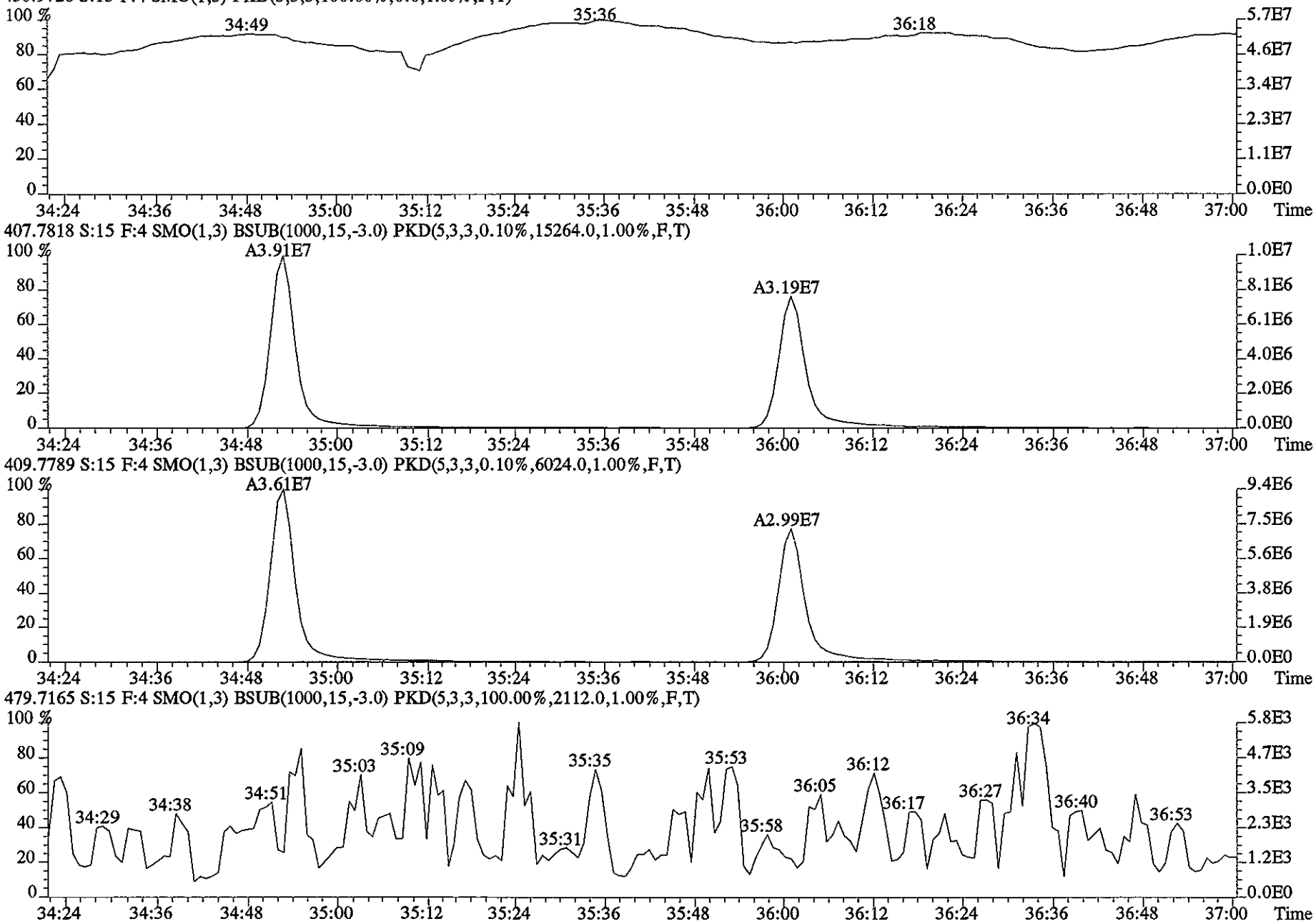
445.7555 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1292.0,1.00%,F,T)



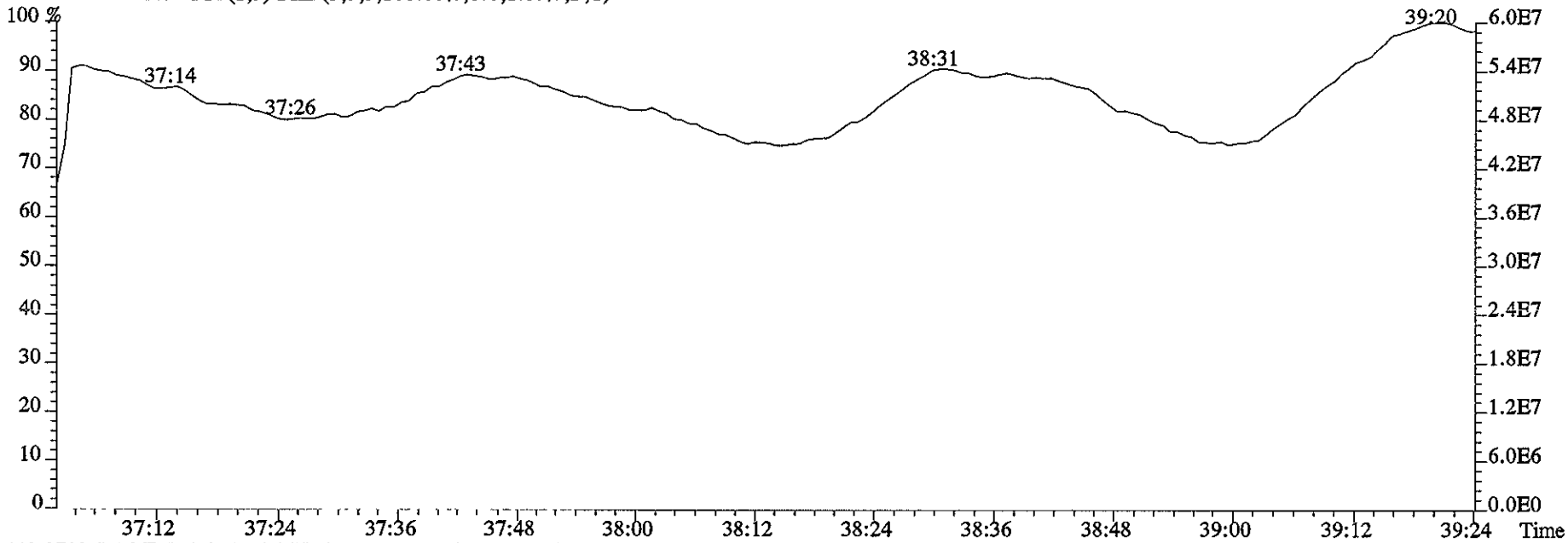
380.9760 S:15 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



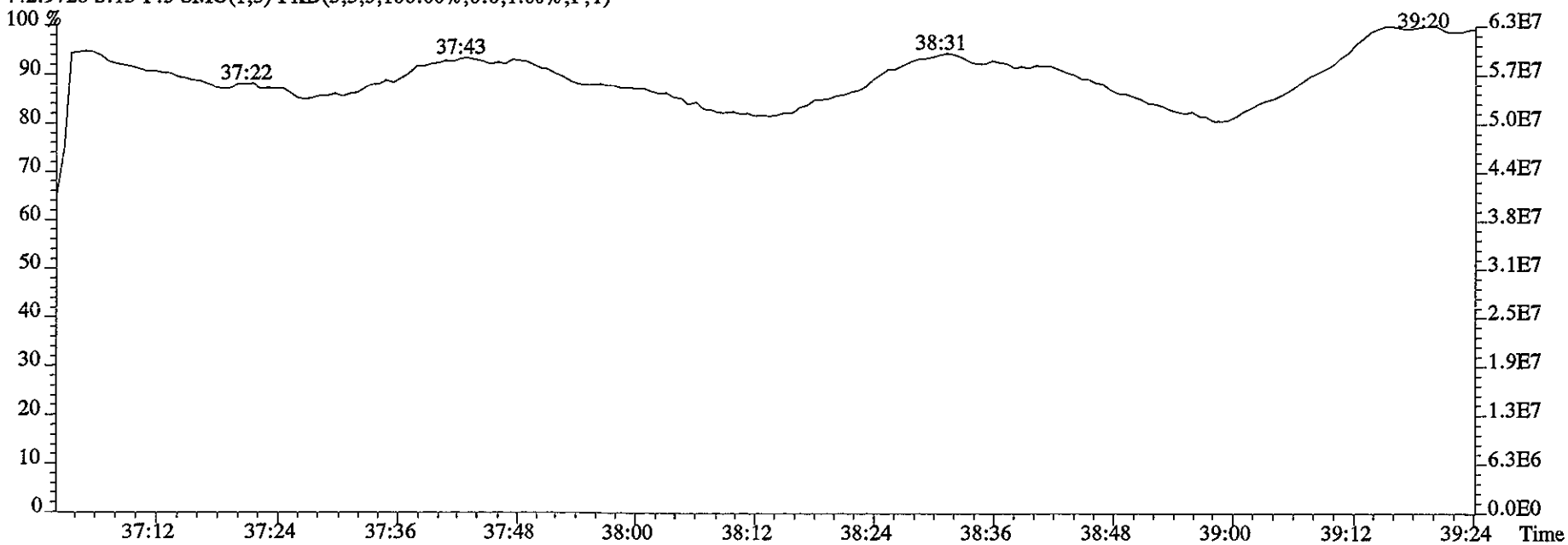
File:07DE104D5 #1-201 Acq: 7-DEC-2010 21:03:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1207B :CS3 10DXN461 Exp:DIOXINRES



File:07DE104D5 #1-192 Acq: 7-DEC-2010 21:03:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1207B :CS3 10DXN461 Exp:DIOXINRES
454.9728 S:15 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

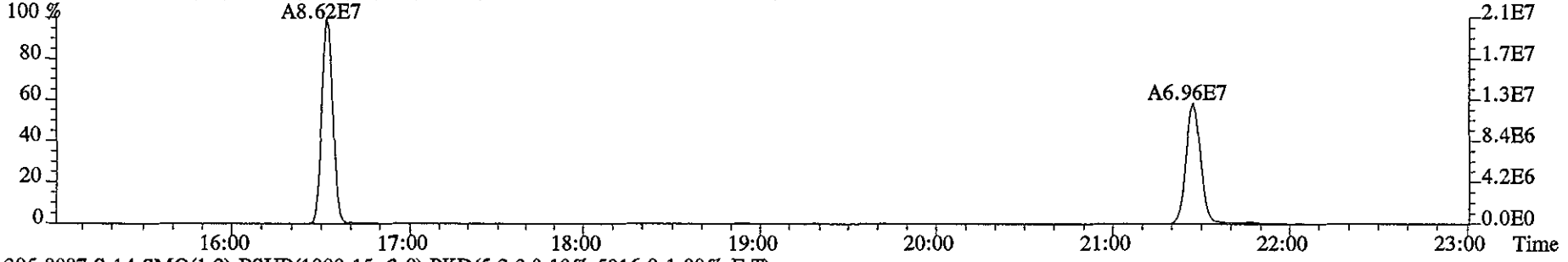


442.9728 S:15 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

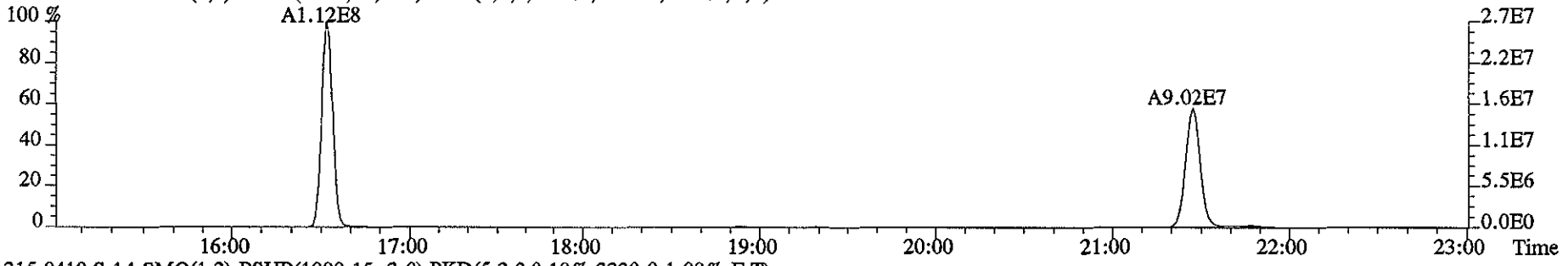


File:07DE104D5 #1-530 Acq: 7-DEC-2010 20:18:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:CP1207A :DB-5 CPSM 10LRES076 Exp:DIOXINRES

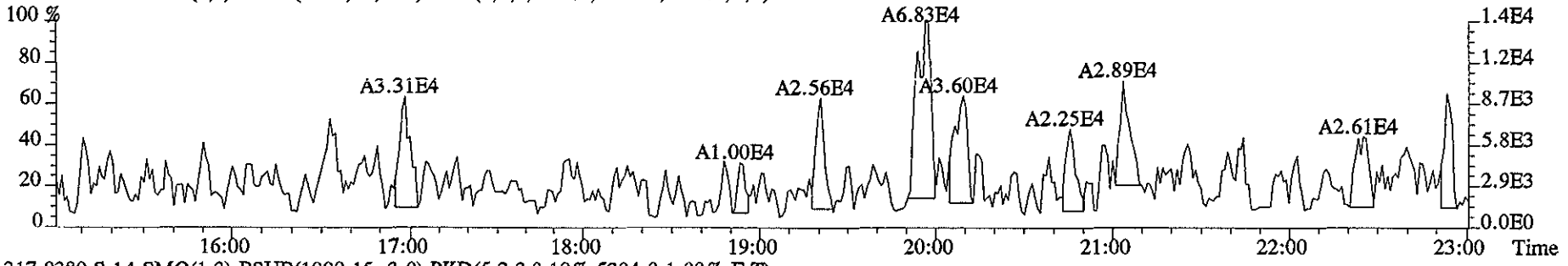
303.9016 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12084.0,1.00%,F,T)



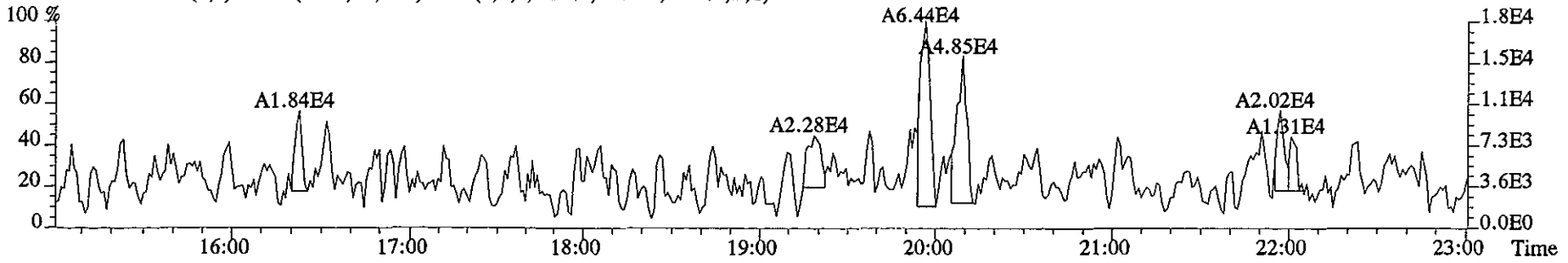
305.8987 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5816.0,1.00%,F,T)



315.9419 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3320.0,1.00%,F,T)

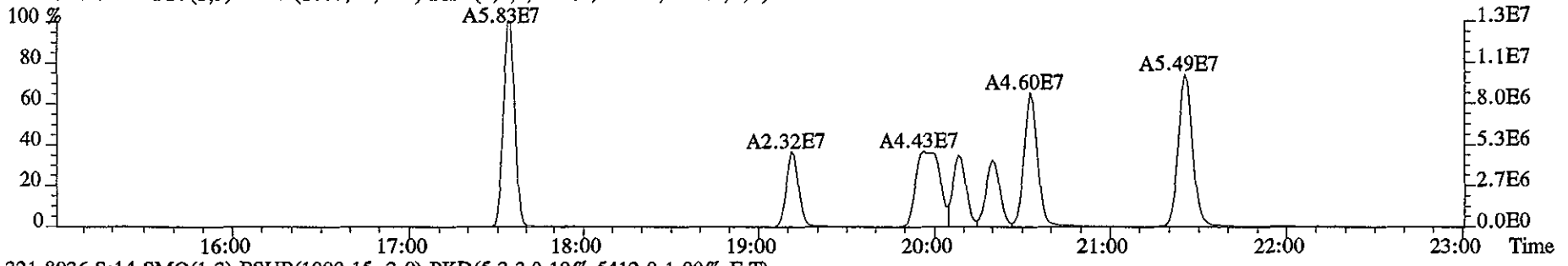


317.9389 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5304.0,1.00%,F,T)

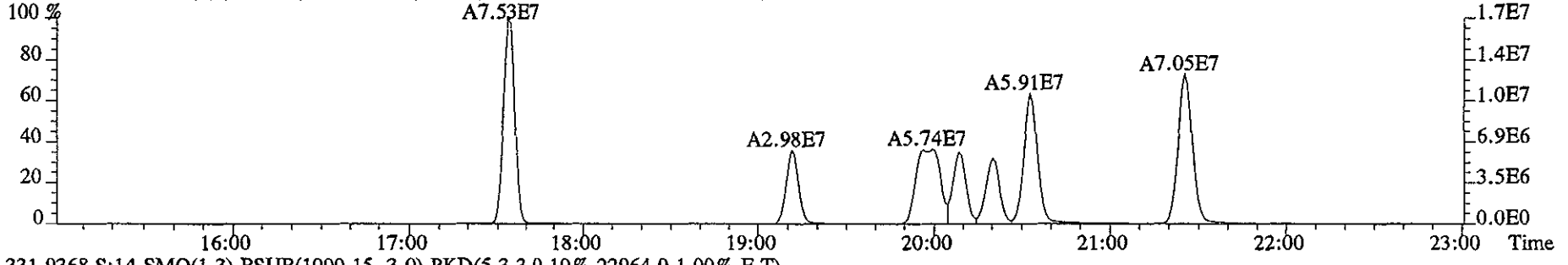


File:07DE104D5 #1-530 Acq: 7-DEC-2010 20:18:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:CP1207A :DB-5 CPSM 10LRES076 Exp:DIOXINRES

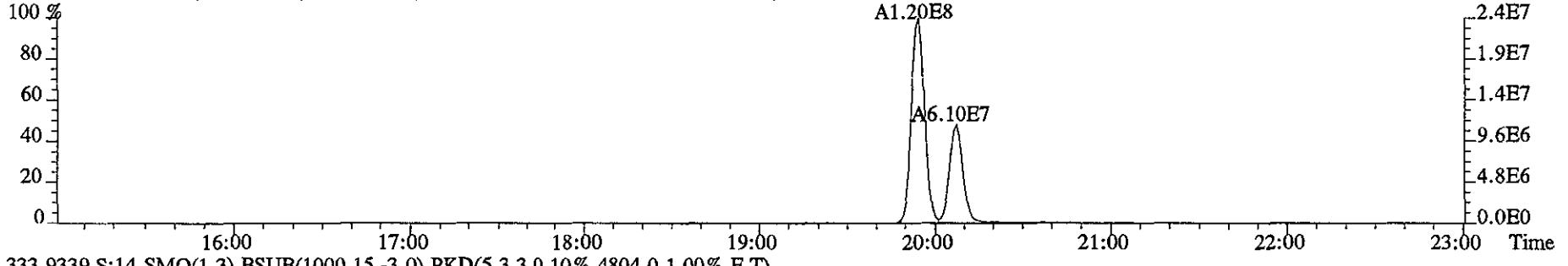
319.8965 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3672.0,1.00%,F,T)



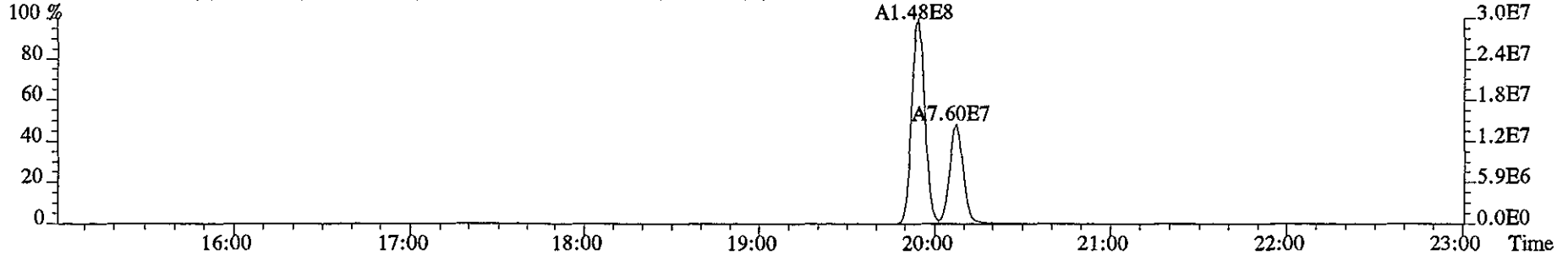
321.8936 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5412.0,1.00%,F,T)



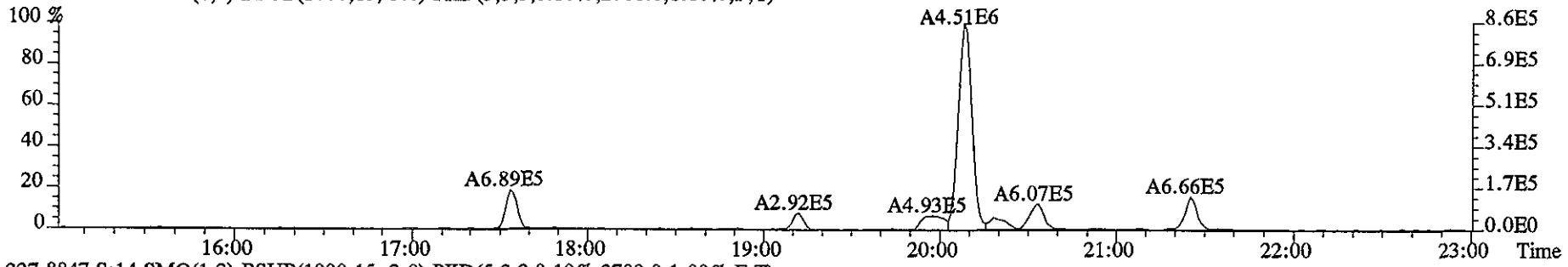
331.9368 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22964.0,1.00%,F,T)



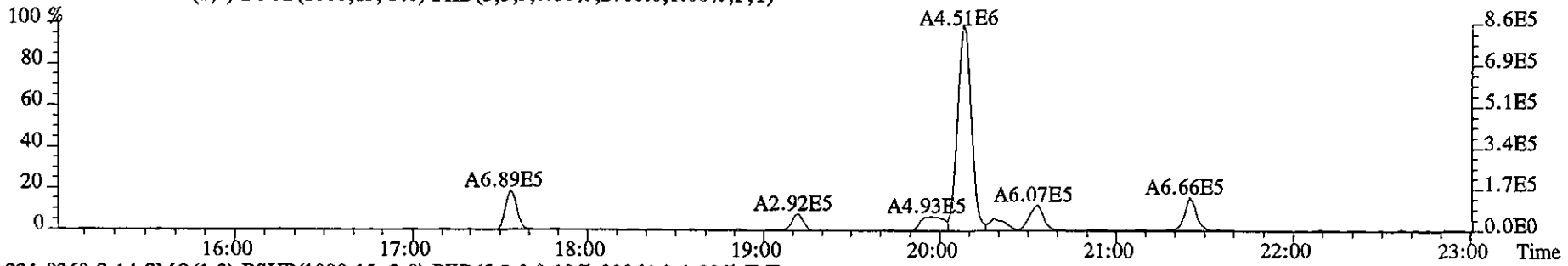
333.9339 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4804.0,1.00%,F,T)



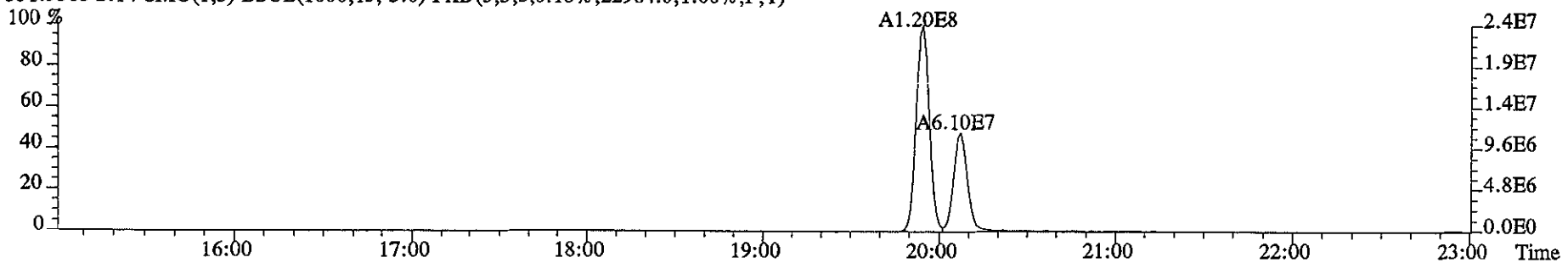
File:07DE104D5 #1-530 Acq: 7-DEC-2010 20:18:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:CP1207A :DB-5 CPSM 10LRES076 Exp:DIOXINRES
327.8847 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2788.0,1.00%,F,T)



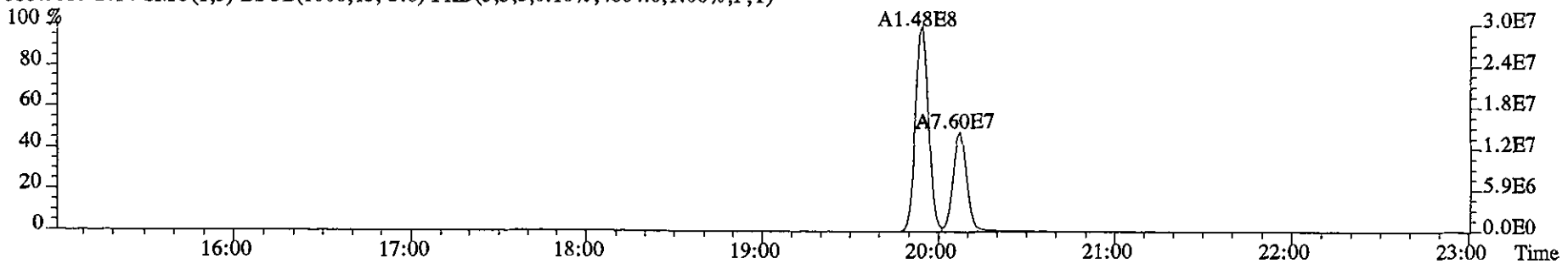
327.8847 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2788.0,1.00%,F,T)



331.9368 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22964.0,1.00%,F,T)

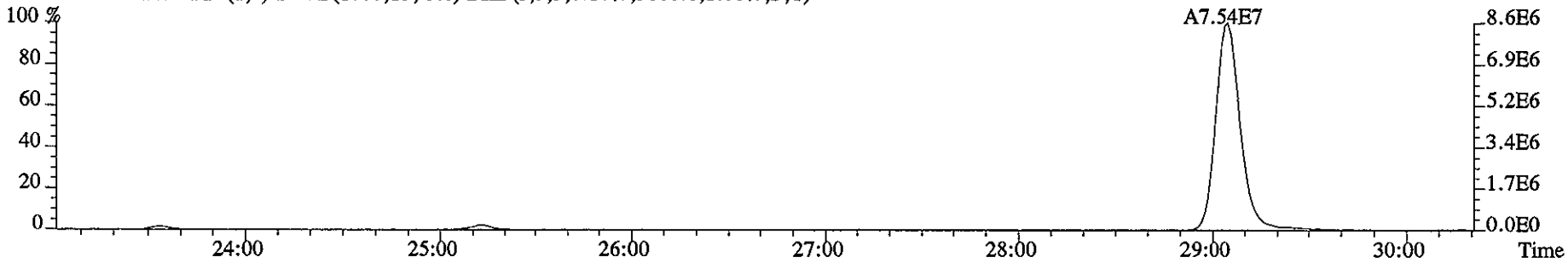


333.9339 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4804.0,1.00%,F,T)

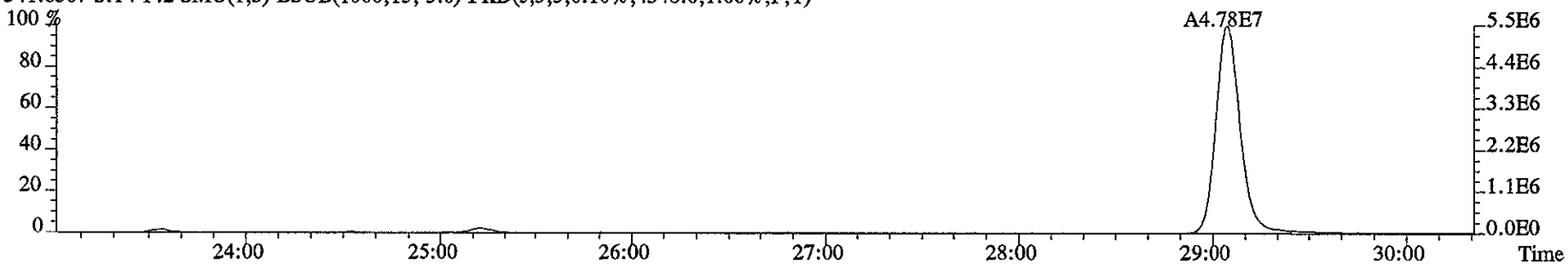


File:07DE104D5 #1-470 Acq: 7-DEC-2010 20:18:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:CP1207A :DB-5 CPSM 10LRES076 Exp:DIOXINRES

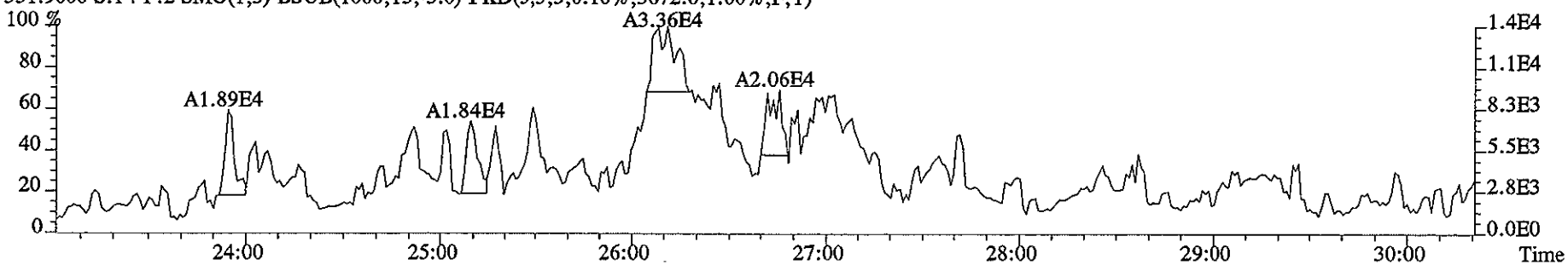
339.8597 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3800.0,1.00%,F,T)



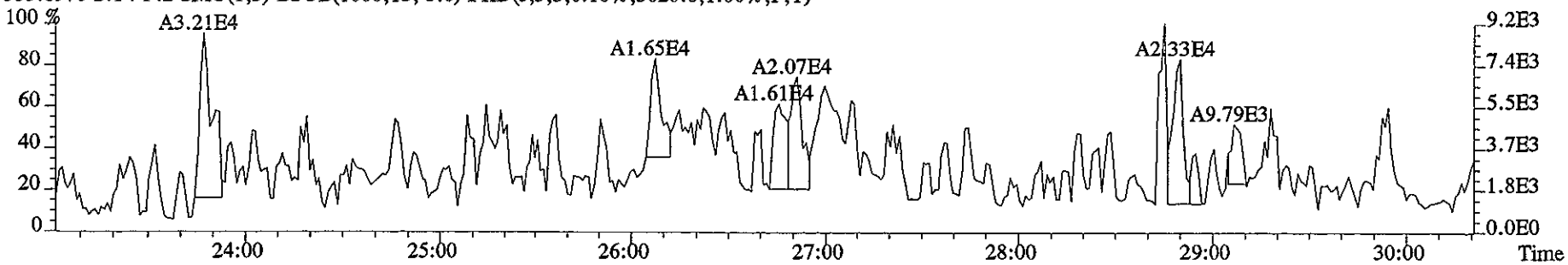
341.8567 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4348.0,1.00%,F,T)



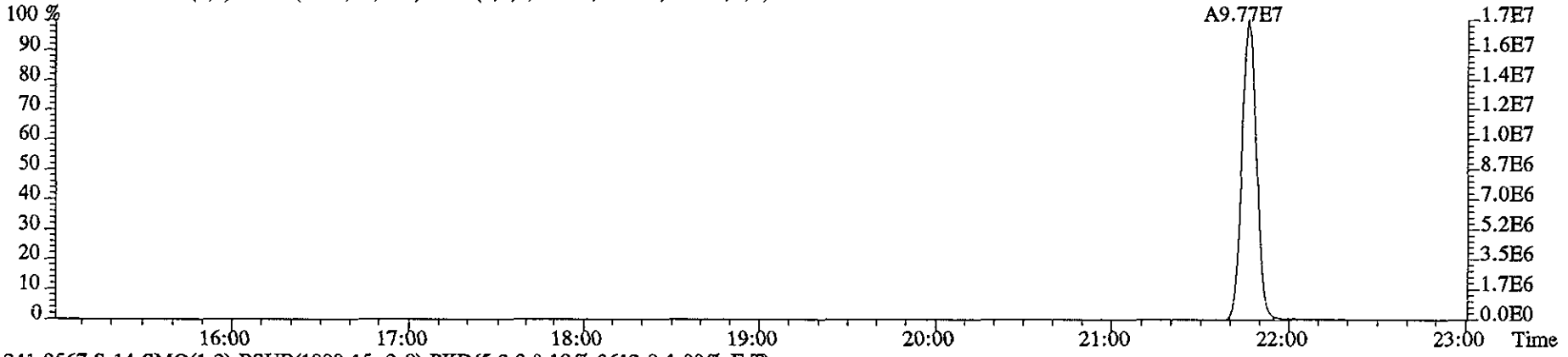
351.9000 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3672.0,1.00%,F,T)



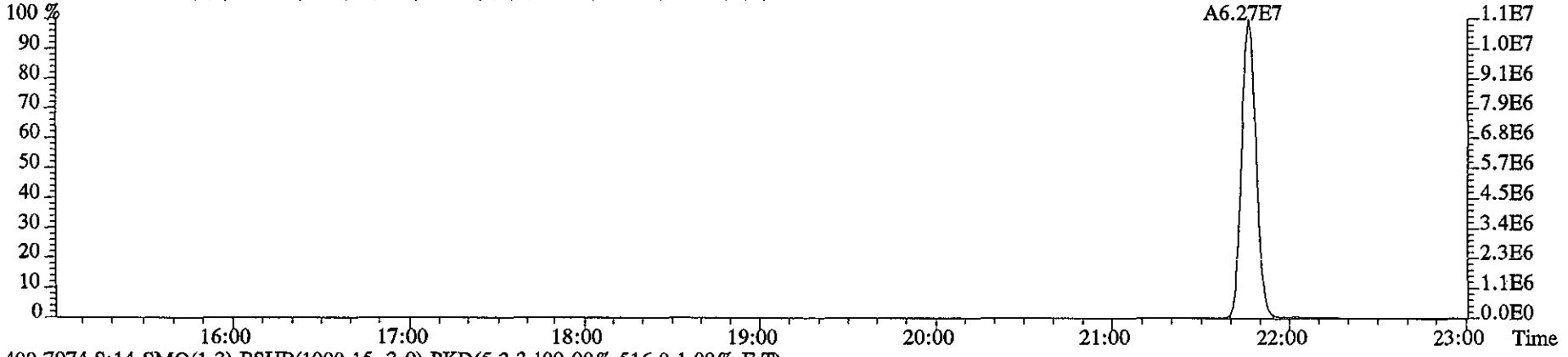
353.8970 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3020.0,1.00%,F,T)



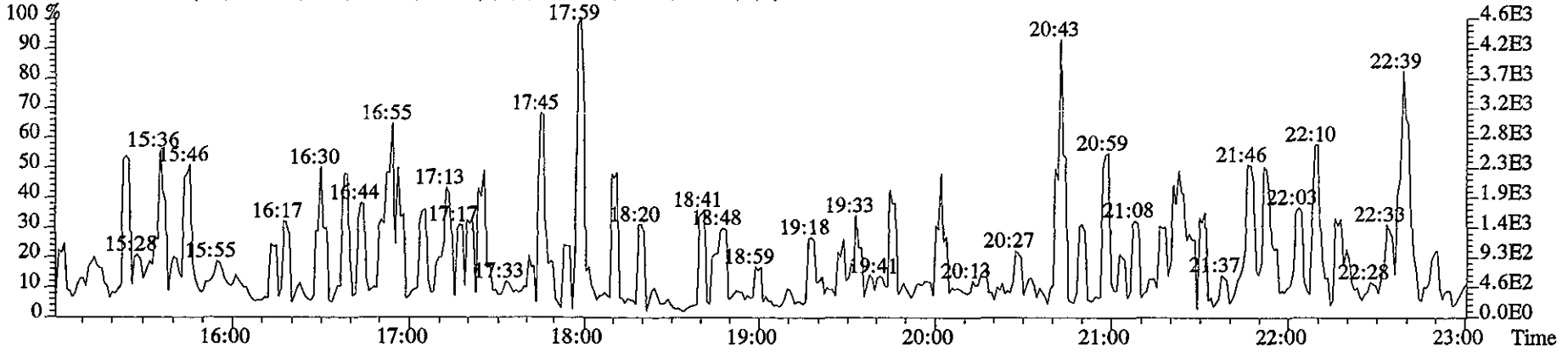
File:07DE104D5 #1-530 Acq: 7-DEC-2010 20:18:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:CP1207A :DB-5 CPSM 10LRES076 Exp:DIOXINRES
339.8597 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1872.0,1.00%,F,T)



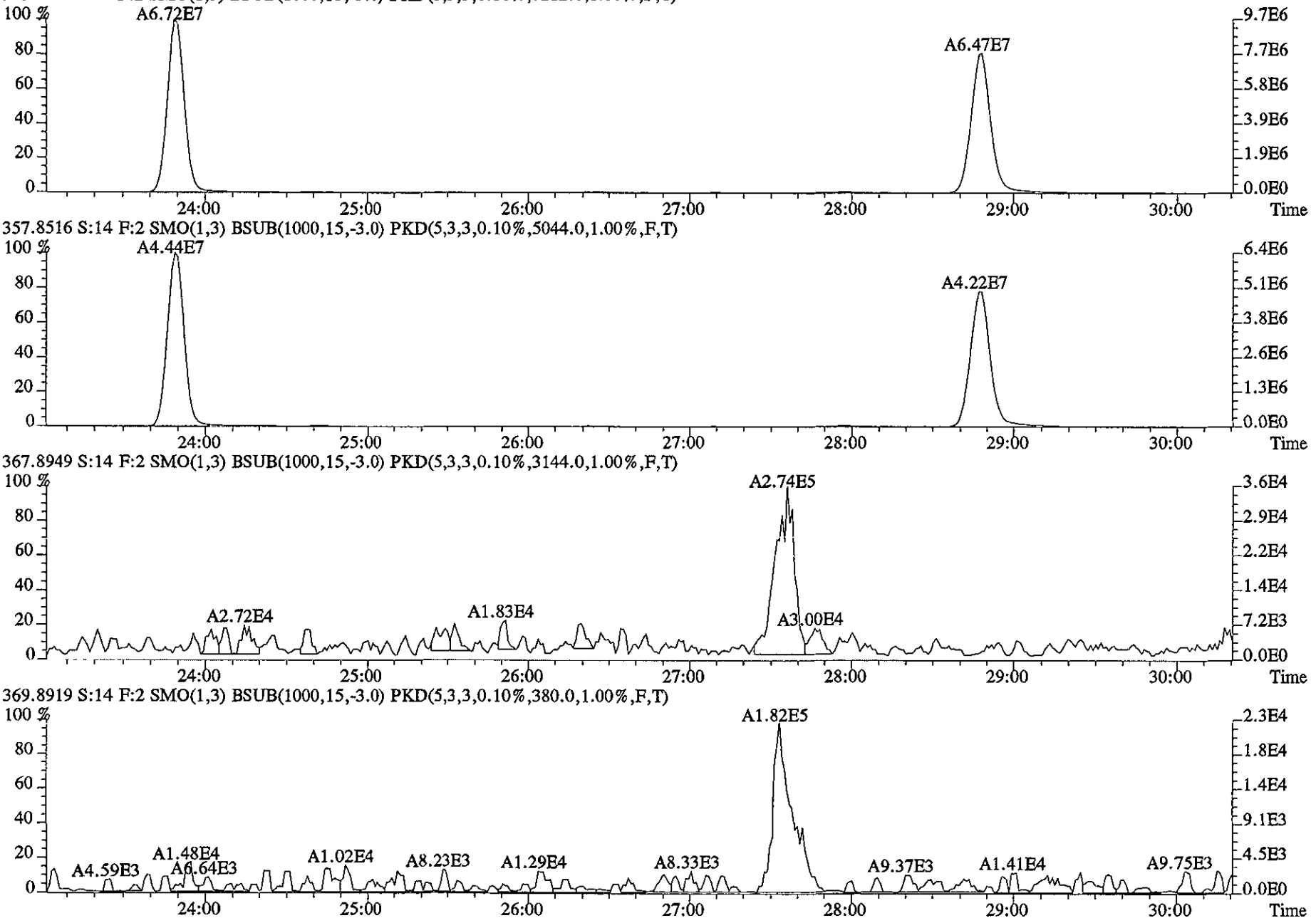
341.8567 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2612.0,1.00%,F,T)



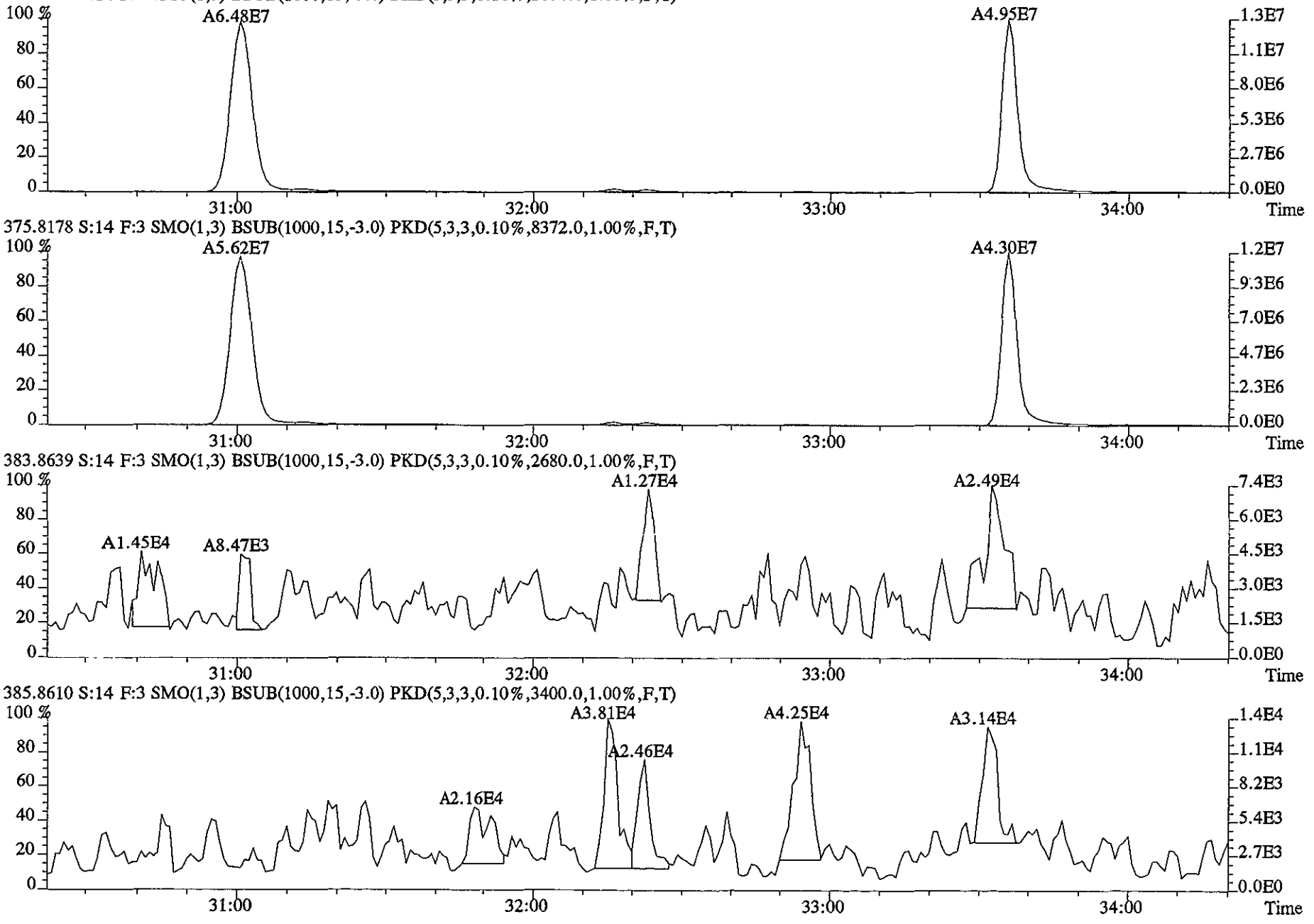
409.7974 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,516.0,1.00%,F,T)



File:07DE104D5 #1-470 Acq: 7-DEC-2010 20:18:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:CP1207A :DB-5 CPSM 10LRES076 Exp:DIOXINRES

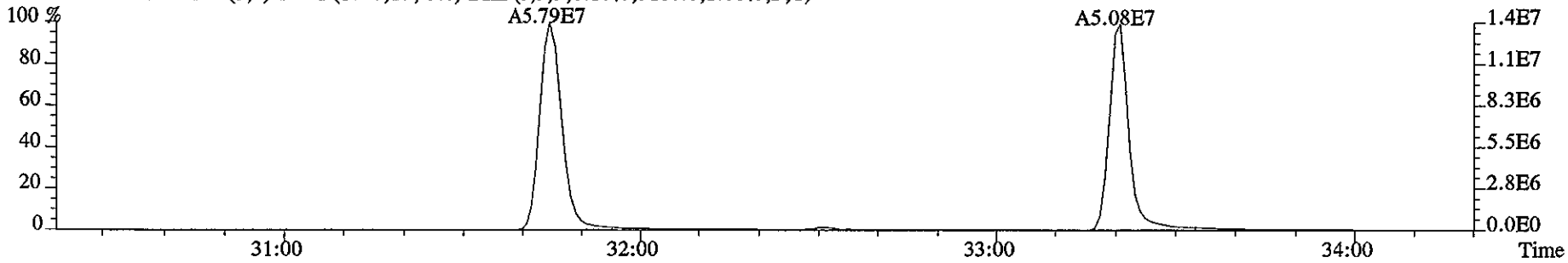


File:07DE104D5 #1-286 Acq: 7-DEC-2010 20:18:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:CP1207A :DB-5 CPSM 10LRES076 Exp:DIOXINRES

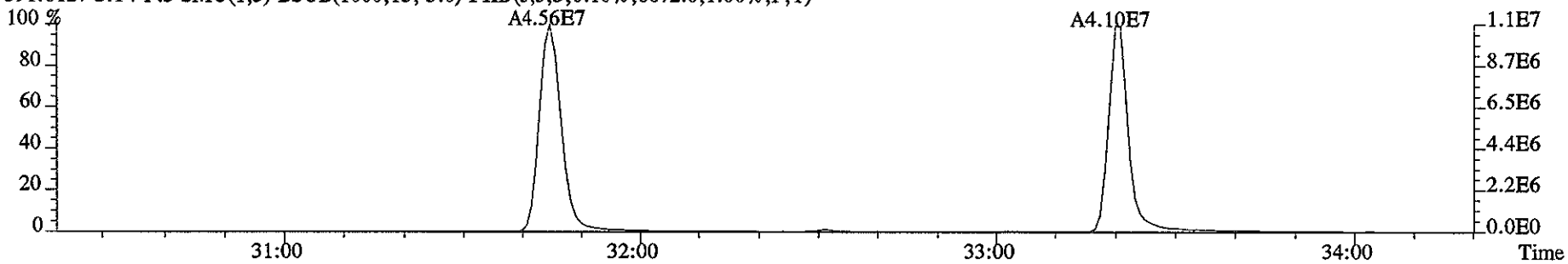


File:07DE104D5 #1-286 Acq: 7-DEC-2010 20:18:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:CP1207A :DB-5 CPSM 10LRES076 Exp:DIOXINRES

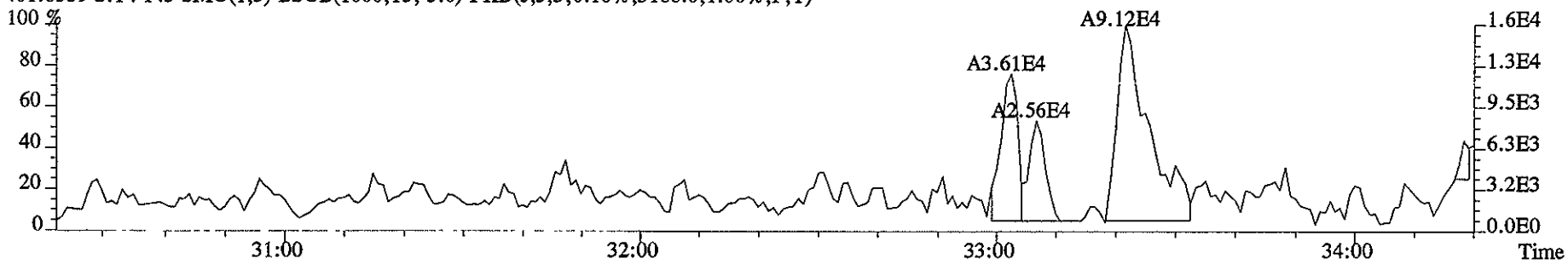
389.8157 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5180.0,1.00%,F,T)



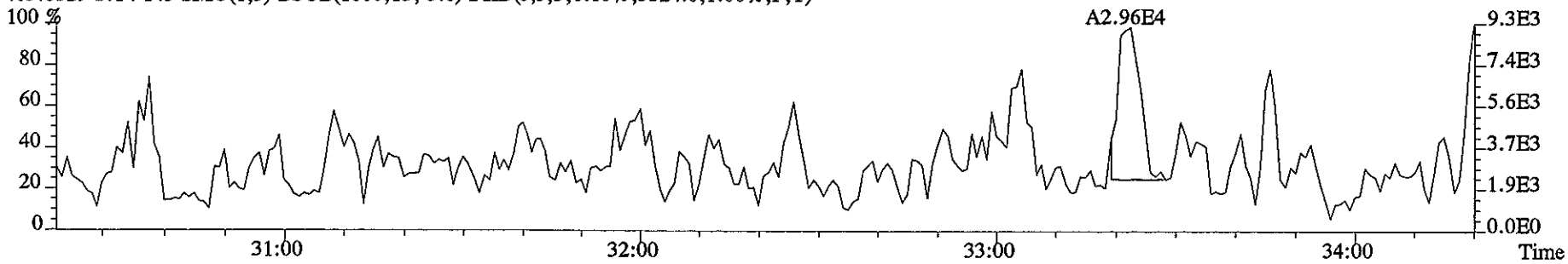
391.8127 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6672.0,1.00%,F,T)



401.8559 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3188.0,1.00%,F,T)

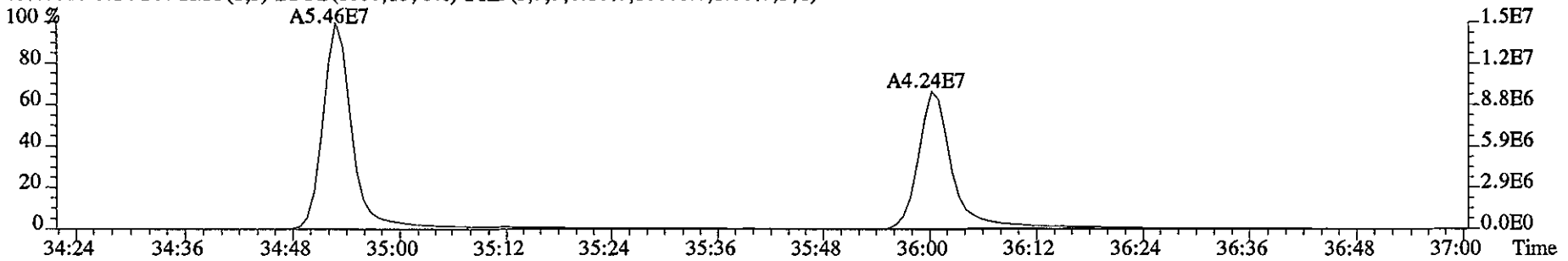


403.8529 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3524.0,1.00%,F,T)

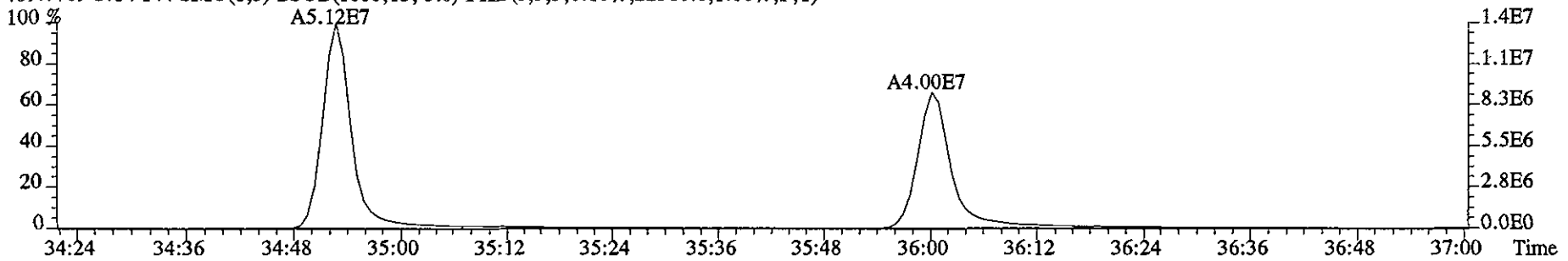


File:07DE104D5 #1-201 Acq: 7-DEC-2010 20:18:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:CP1207A :DB-5 CPSM 10LRES076 Exp:DIOXINRES

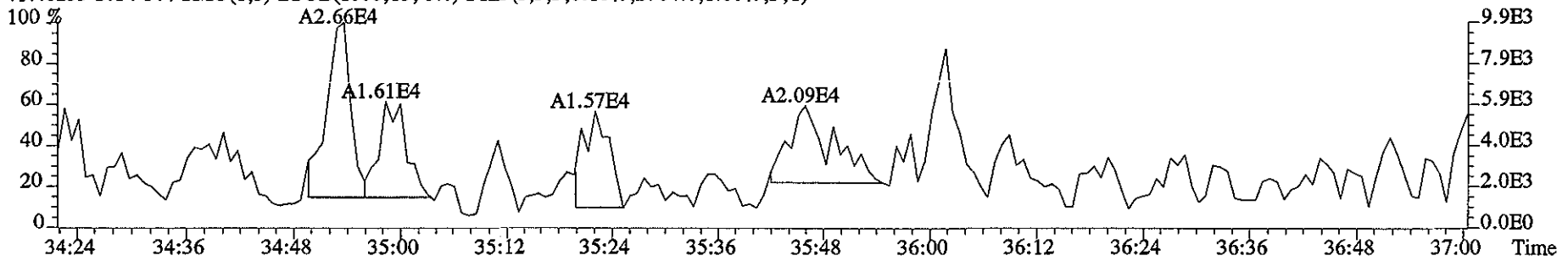
407.7818 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18688.0,1.00%,F,T)



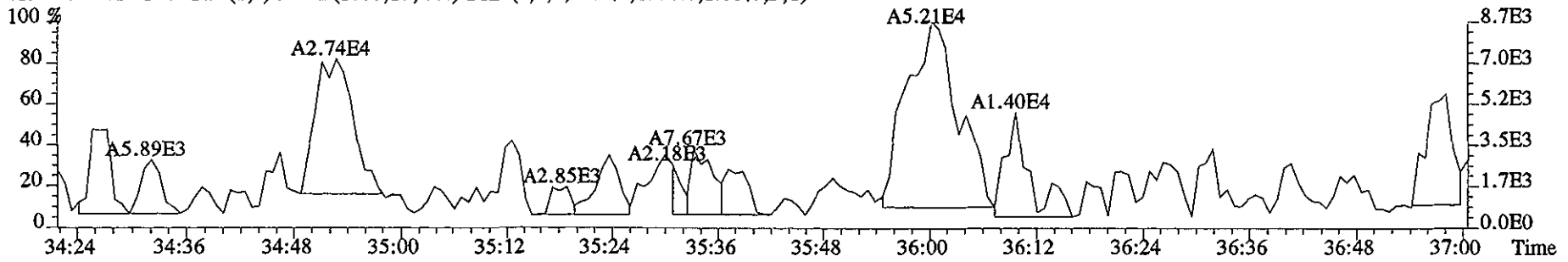
409.7789 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22560.0,1.00%,F,T)



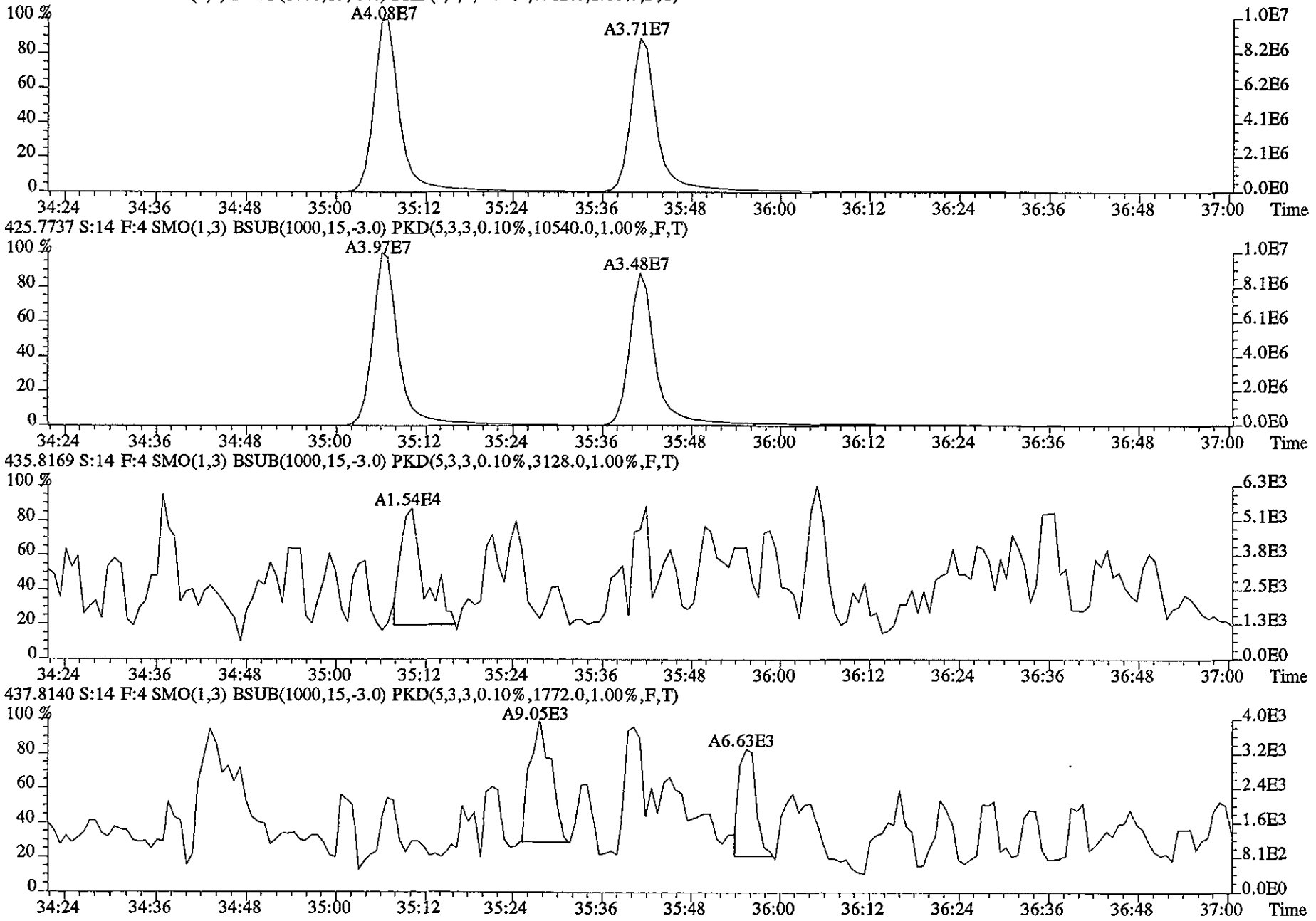
417.8253 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2764.0,1.00%,F,T)



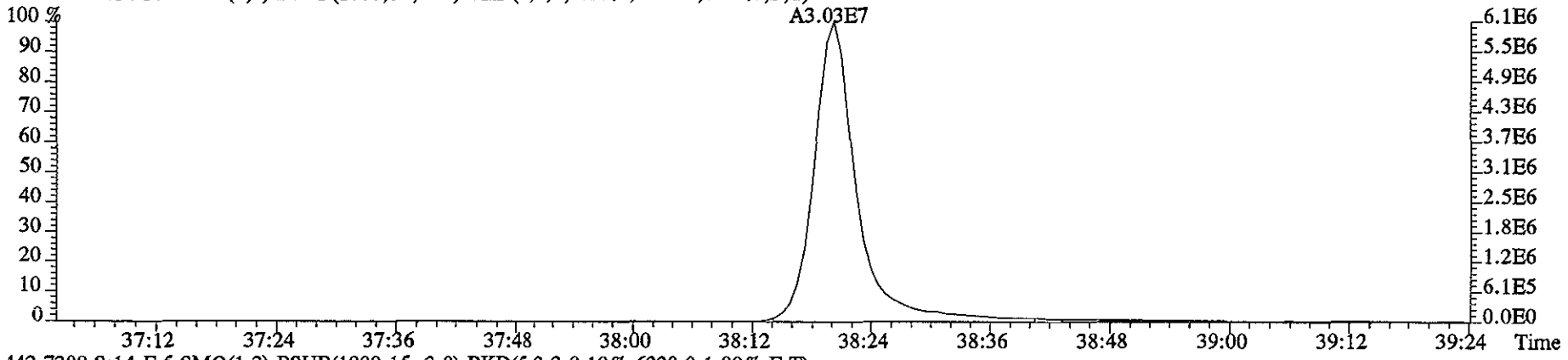
419.8220 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1576.0,1.00%,F,T)



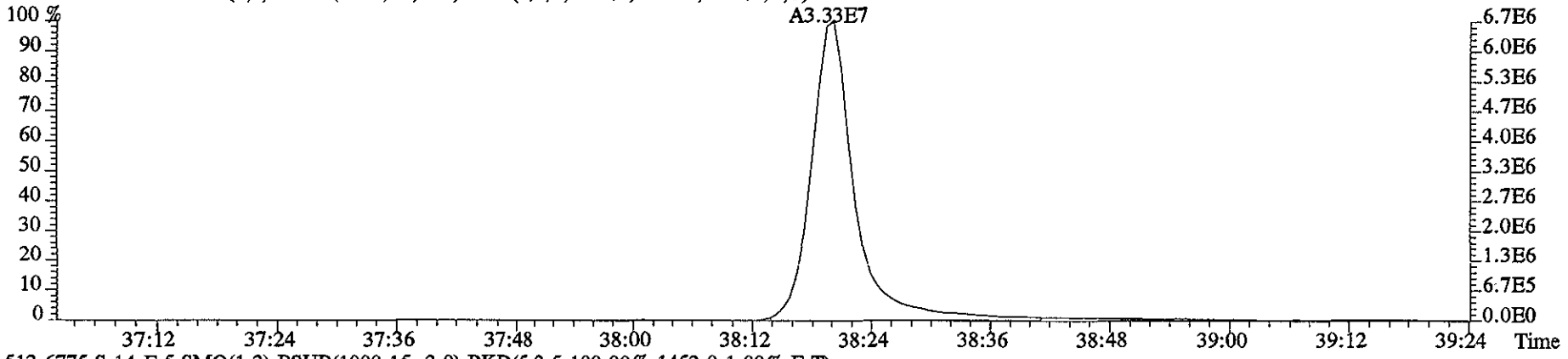
File:07DE104D5 #1-201 Acq: 7-DEC-2010 20:18:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:CP1207A :DB-5 CPSM 10LRES076 Exp:DIOXINRES



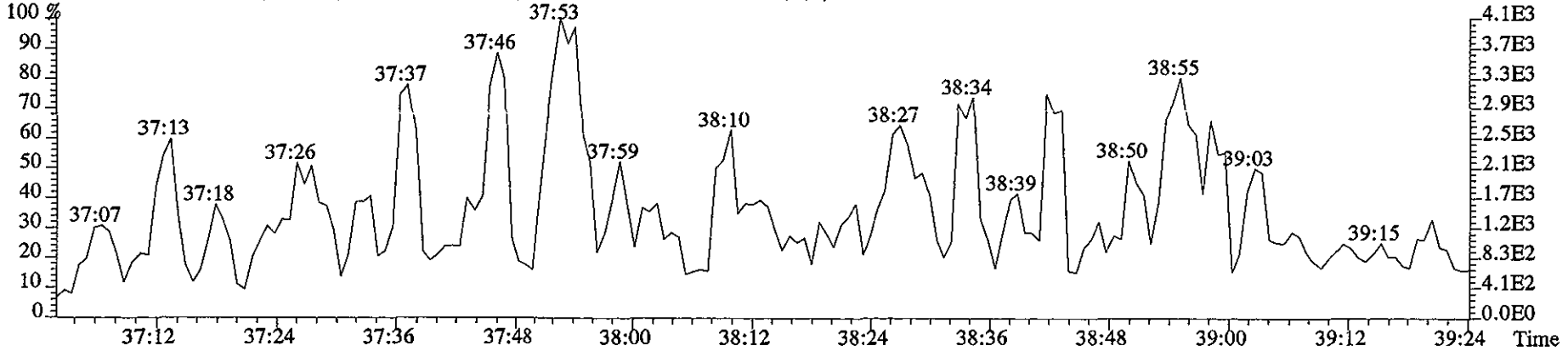
File:07DE104D5 #1-192 Acq: 7-DEC-2010 20:18:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:CP1207A :DB-5 CPSM 10LRES076 Exp:DIOXINRES
441.7428 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6084.0,1.00%,F,T)



443.7399 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6228.0,1.00%,F,T)

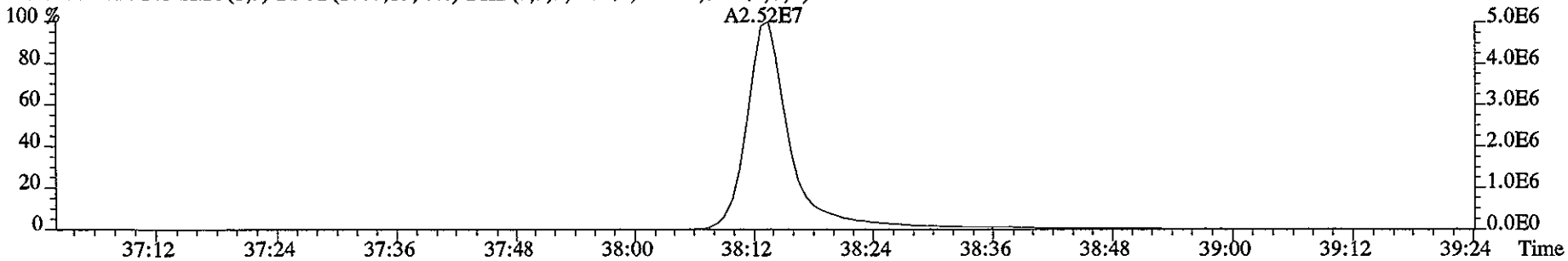


513.6775 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,1452.0,1.00%,F,T)

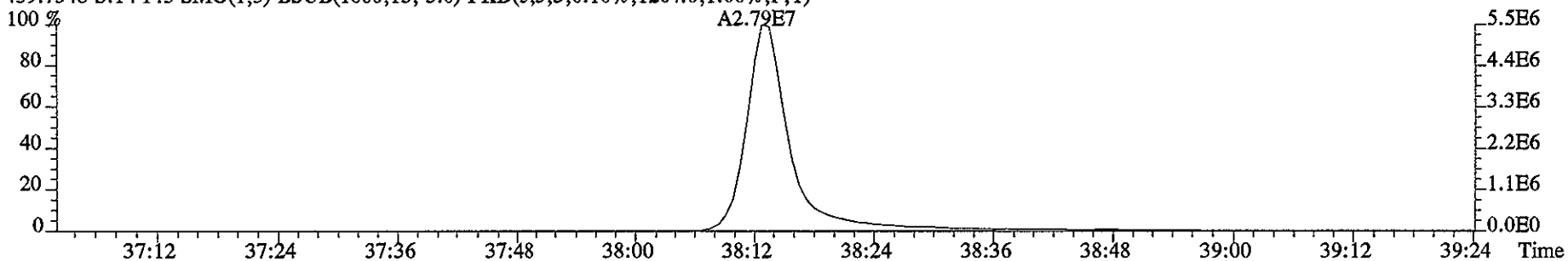


File:07DE104D5 #1-192 Acq: 7-DEC-2010 20:18:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:CP1207A :DB-5 CPSM 10LRES076 Exp:DIOXINRES

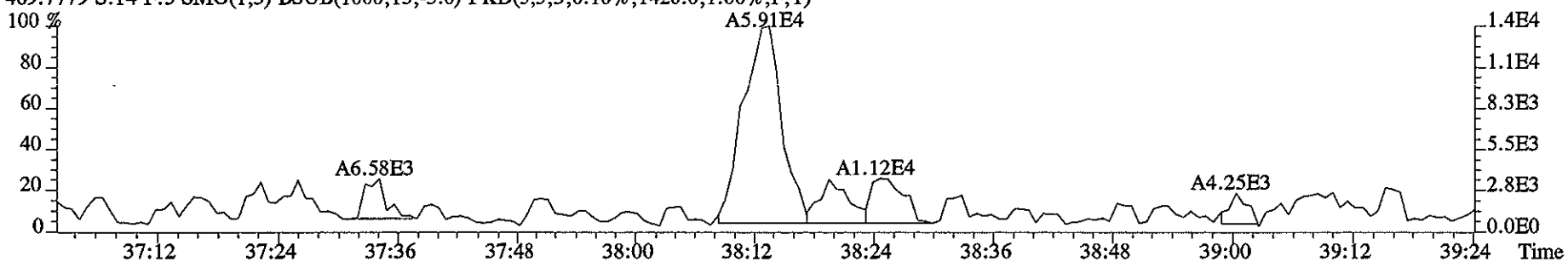
457.7377 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6376.0,1.00%,F,T)



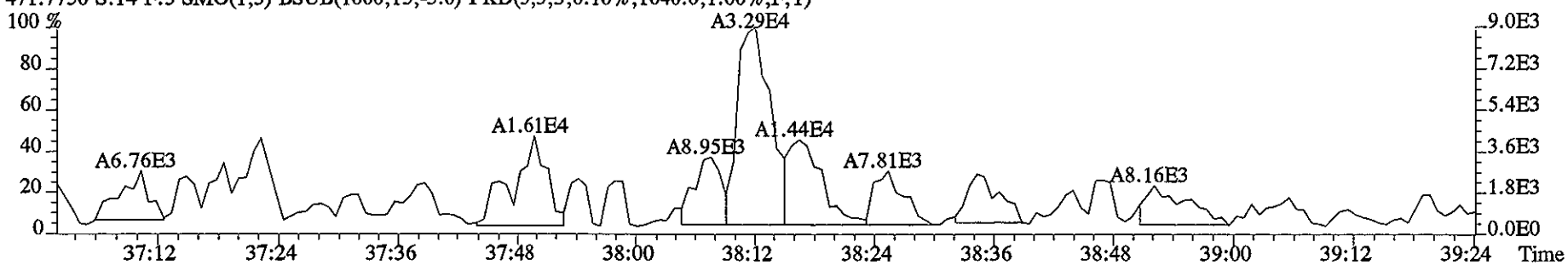
459.7348 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1264.0,1.00%,F,T)



469.7779 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1420.0,1.00%,F,T)

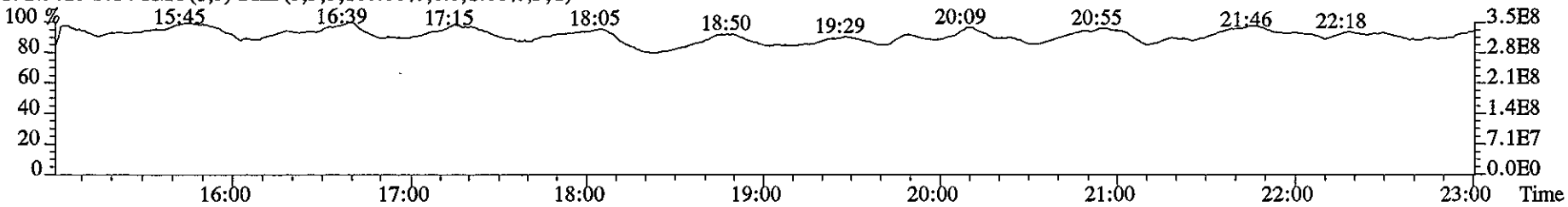


471.7750 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1040.0,1.00%,F,T)

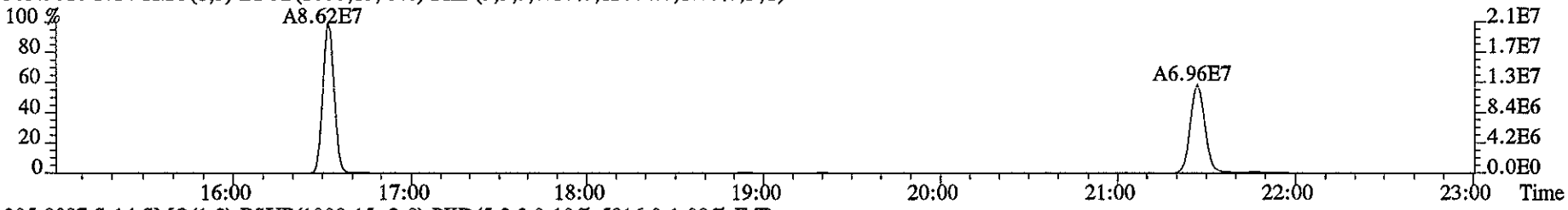


File:07DE104D5 #1-530 Acq: 7-DEC-2010 20:18:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:CP1207A :DB-5 CPSM 10LRES076 Exp:DIOXINRES

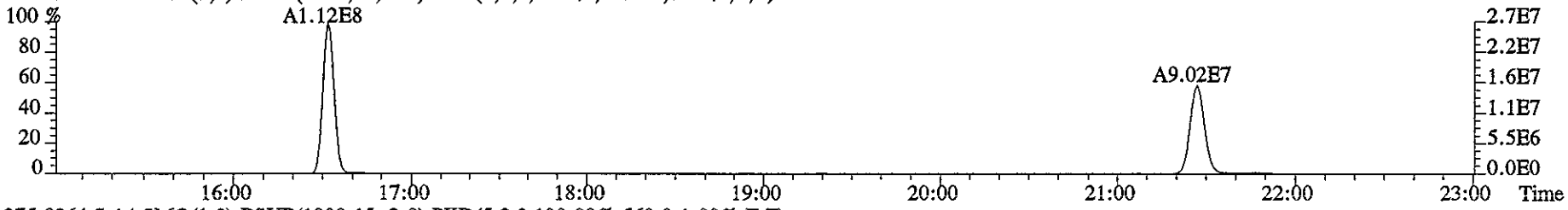
292.9825 S:14 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



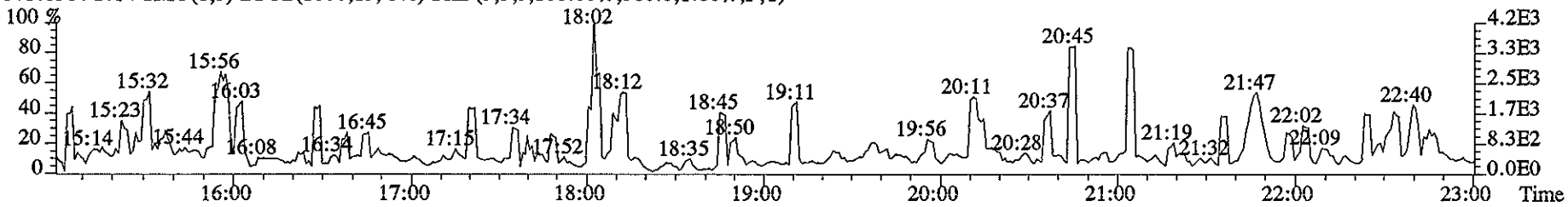
303.9016 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12084.0,1.00%,F,T)



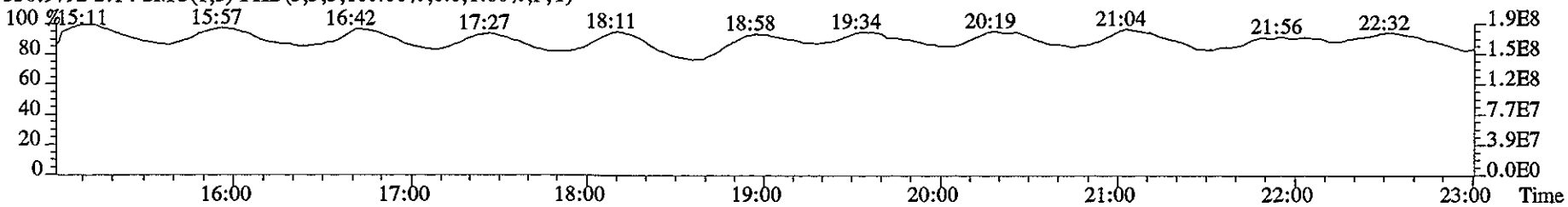
305.8987 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5816.0,1.00%,F,T)



375.8364 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,560.0,1.00%,F,T)

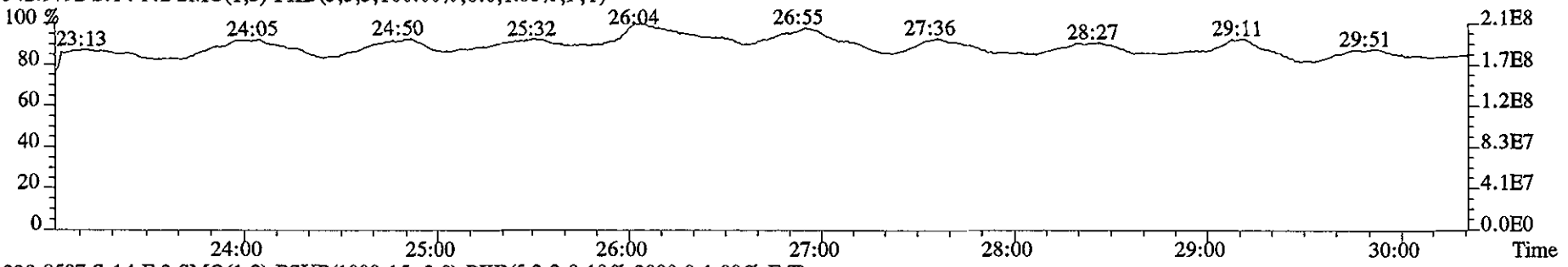


330.9792 S:14 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

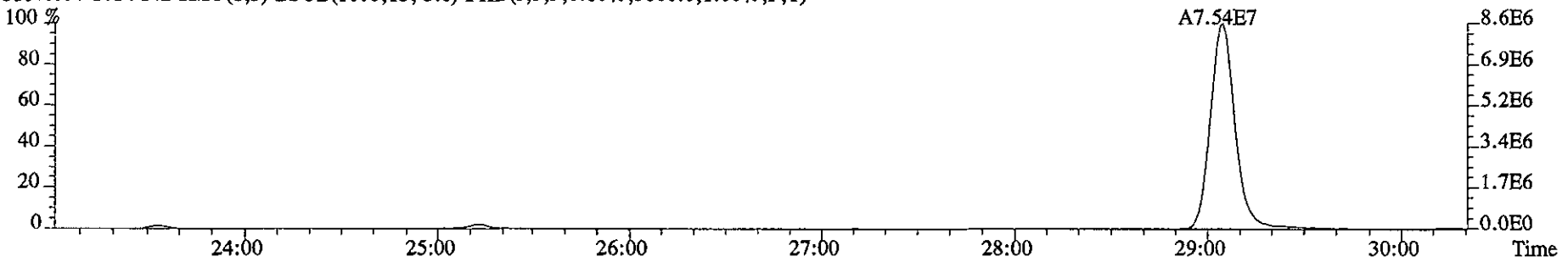


File:07DE104D5 #1-470 Acq: 7-DEC-2010 20:18:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:CP1207A :DB-5 CPSM 10LRES076 Exp:DIOXINRES

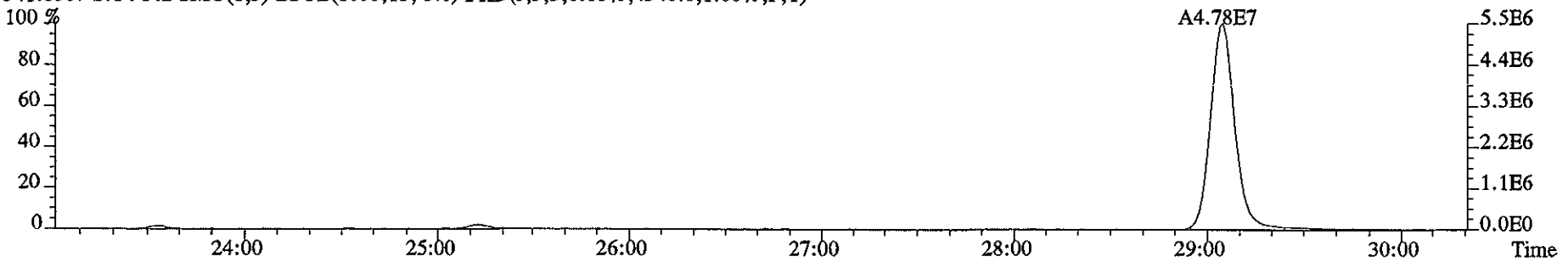
342.9792 S:14 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



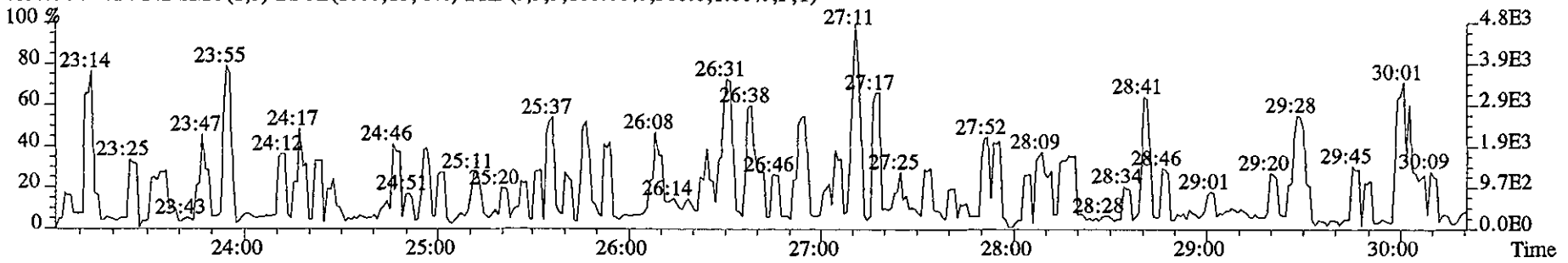
339.8597 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3800.0,1.00%,F,T)



341.8567 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4348.0,1.00%,F,T)

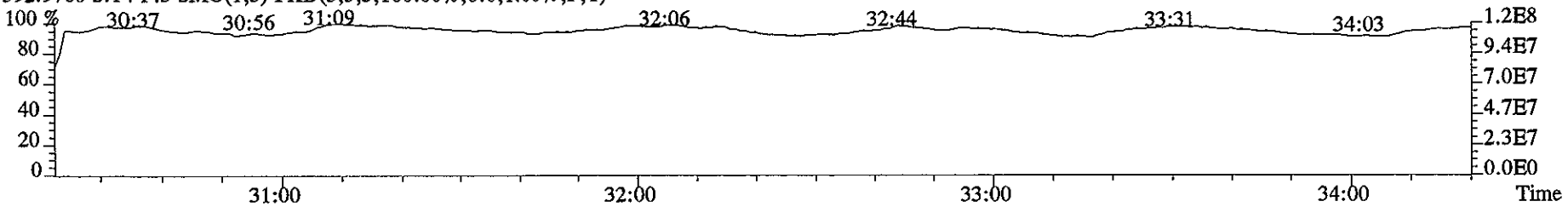


409.7974 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,380.0,1.00%,F,T)

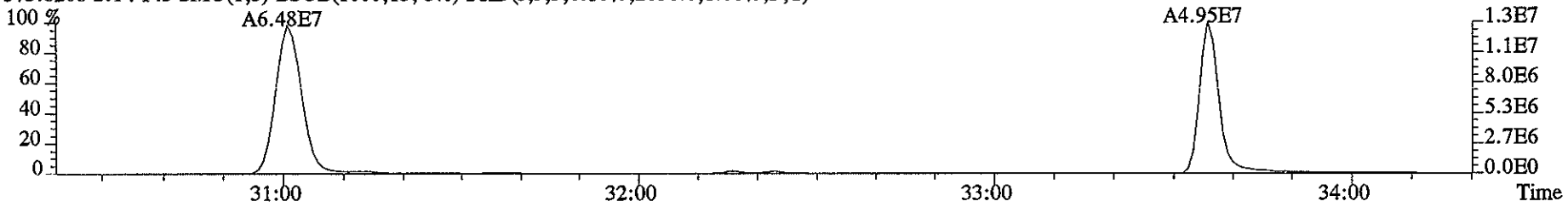


File:07DE104D5 #1-286 Acq: 7-DEC-2010 20:18:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:CP1207A :DB-5 CPSM 10LRES076 Exp:DIOXINRES

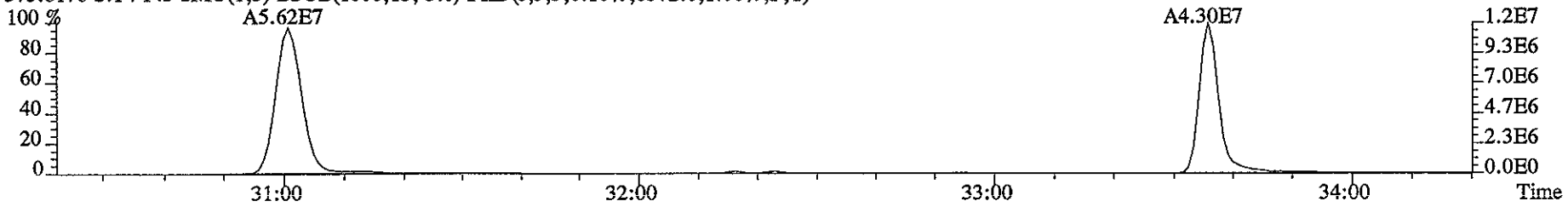
392.9760 S:14 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



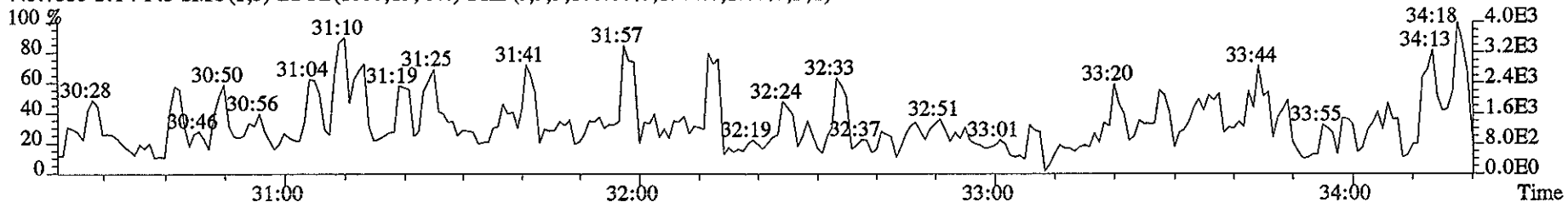
373.8208 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2056.0,1.00%,F,T)



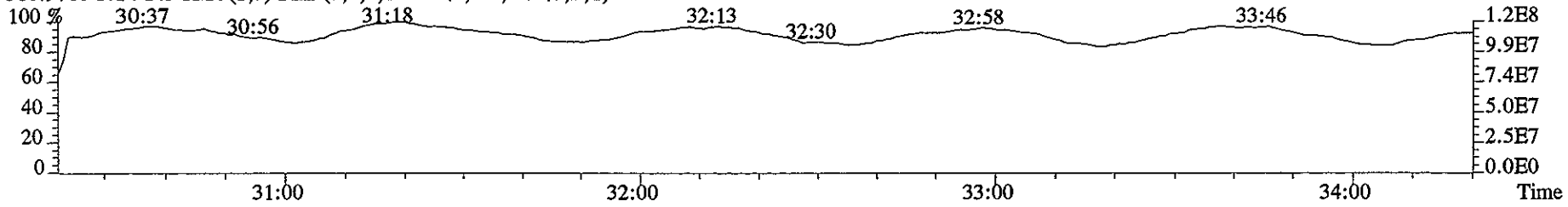
375.8178 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8372.0,1.00%,F,T)



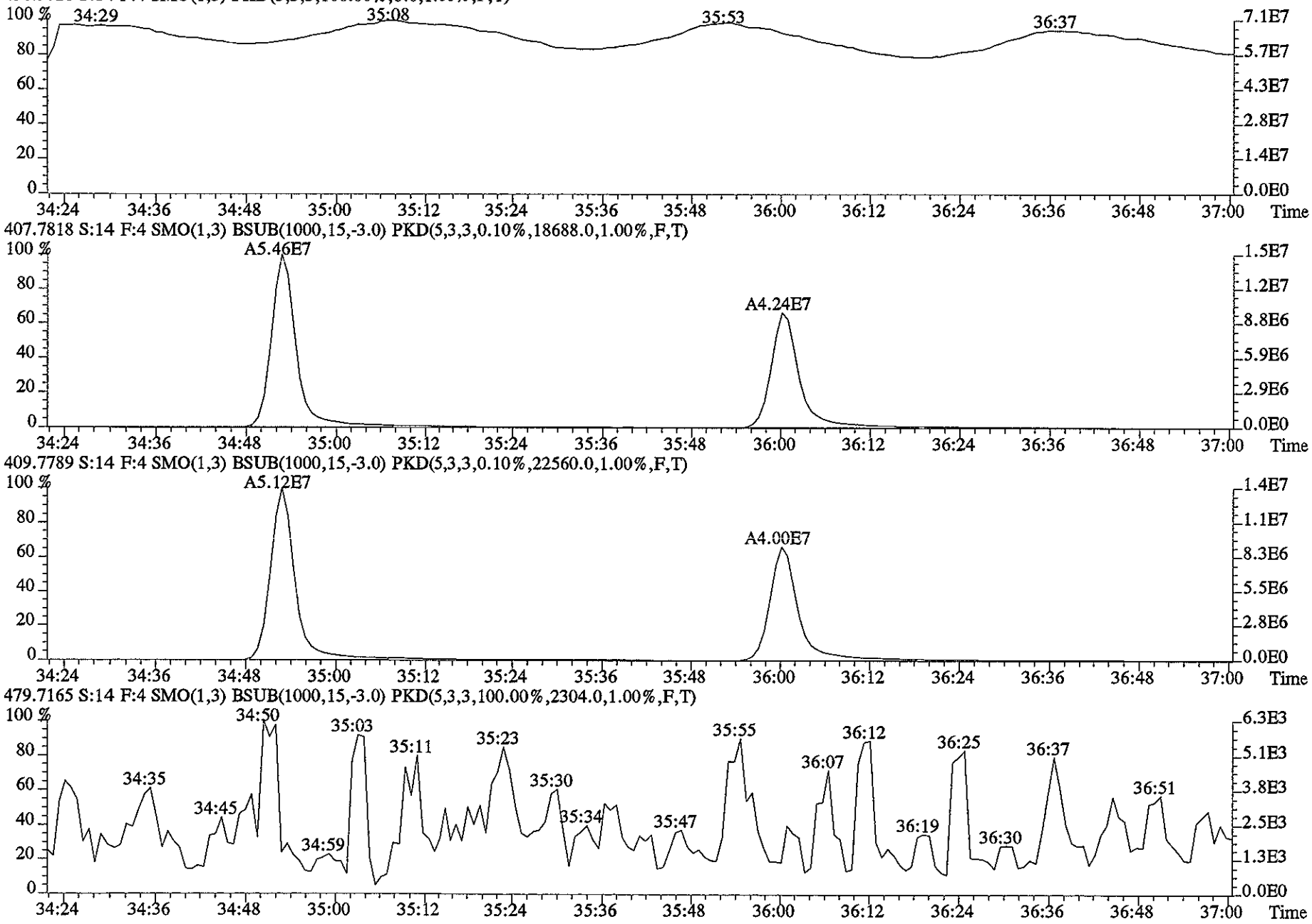
445.7555 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1364.0,1.00%,F,T)



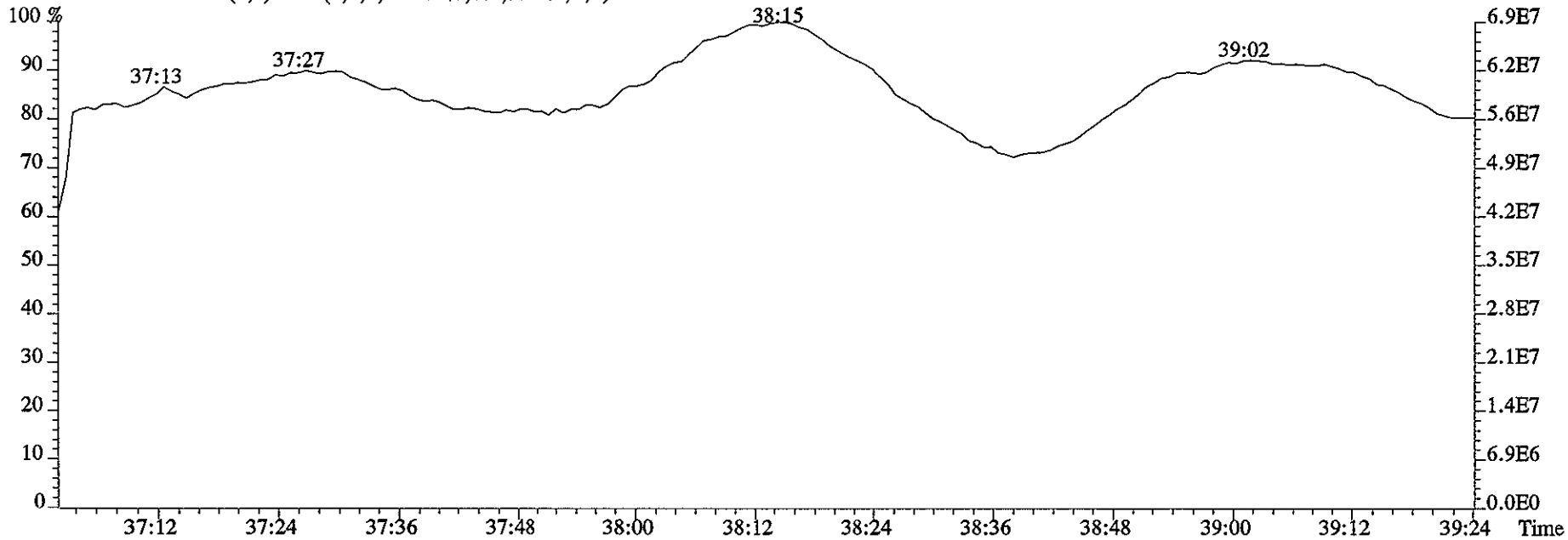
380.9760 S:14 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



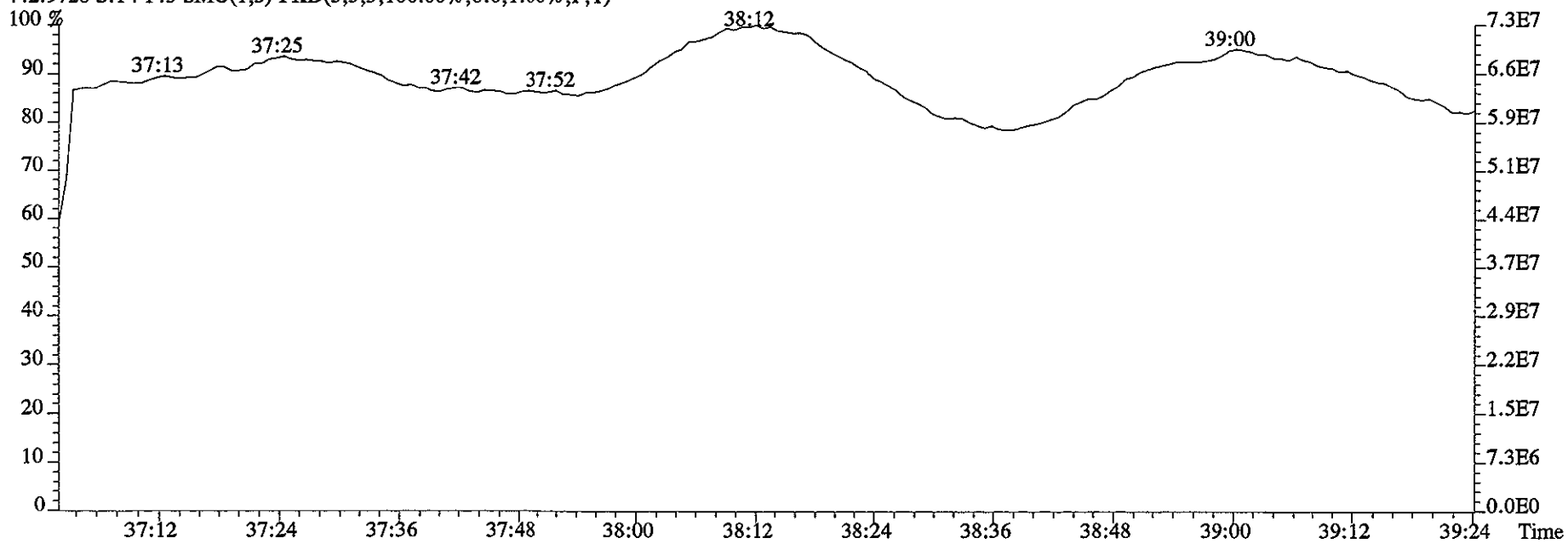
File:07DE104D5 #1-201 Acq: 7-DEC-2010 20:18:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:CP1207A :DB-5 CPSM 10LRES076 Exp:DIOXINRES



File:07DE104D5 #1-192 Acq: 7-DEC-2010 20:18:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:CP1207A :DB-5 CPSM 10LRES076 Exp:DIOXINRES
454.9728 S:14 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

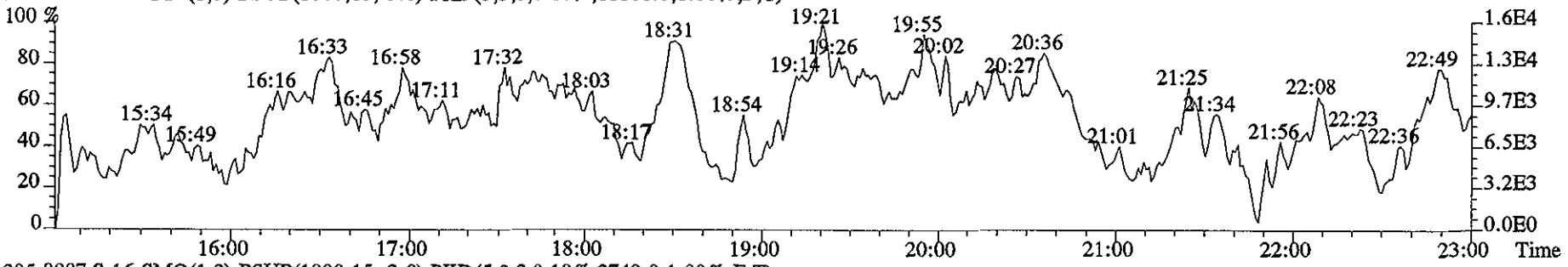


442.9728 S:14 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

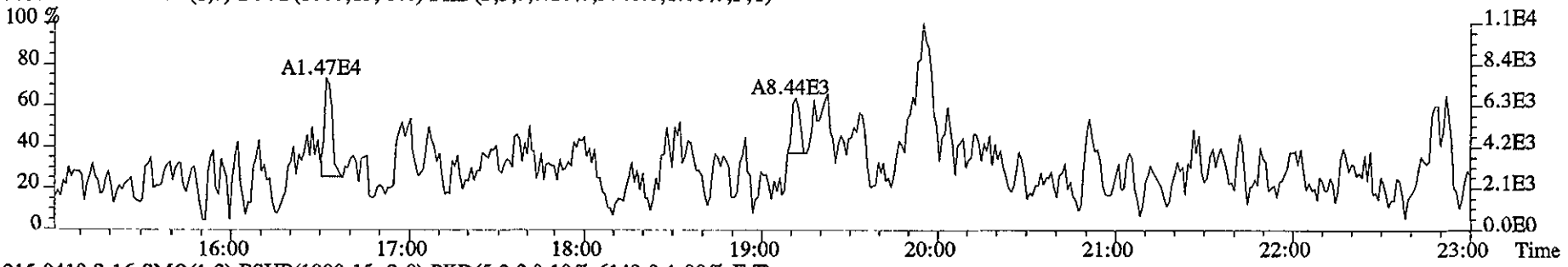


File:07DE104D5 #1-529 Acq: 7-DEC-2010 21:48:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 Text:MAXGD-1-AA :G0L030524-1MB Exp:DIOXINRES

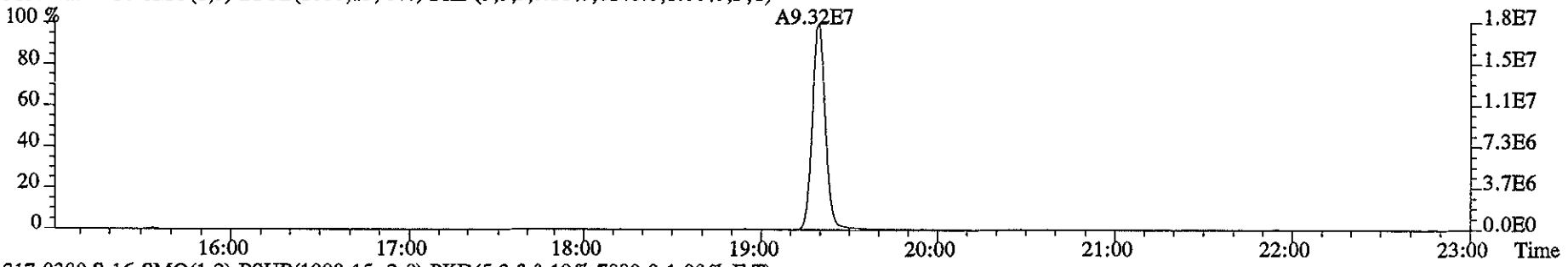
303.9016 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11168.0,1.00%,F,T)



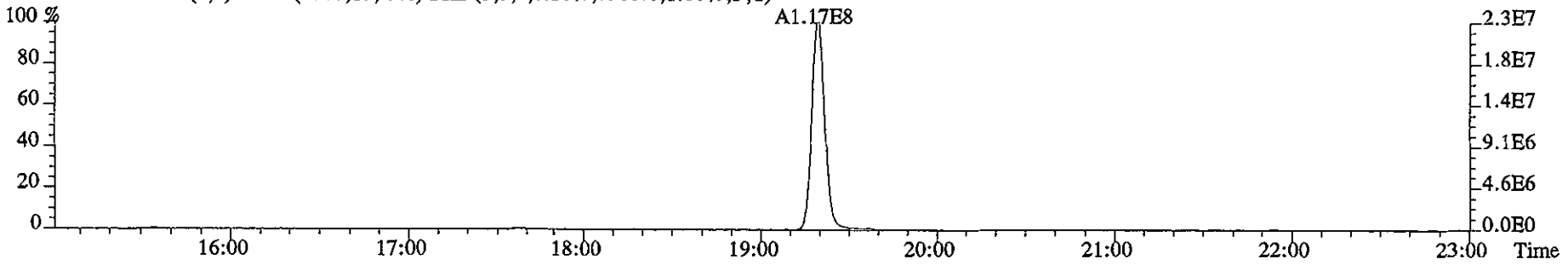
305.8987 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3740.0,1.00%,F,T)



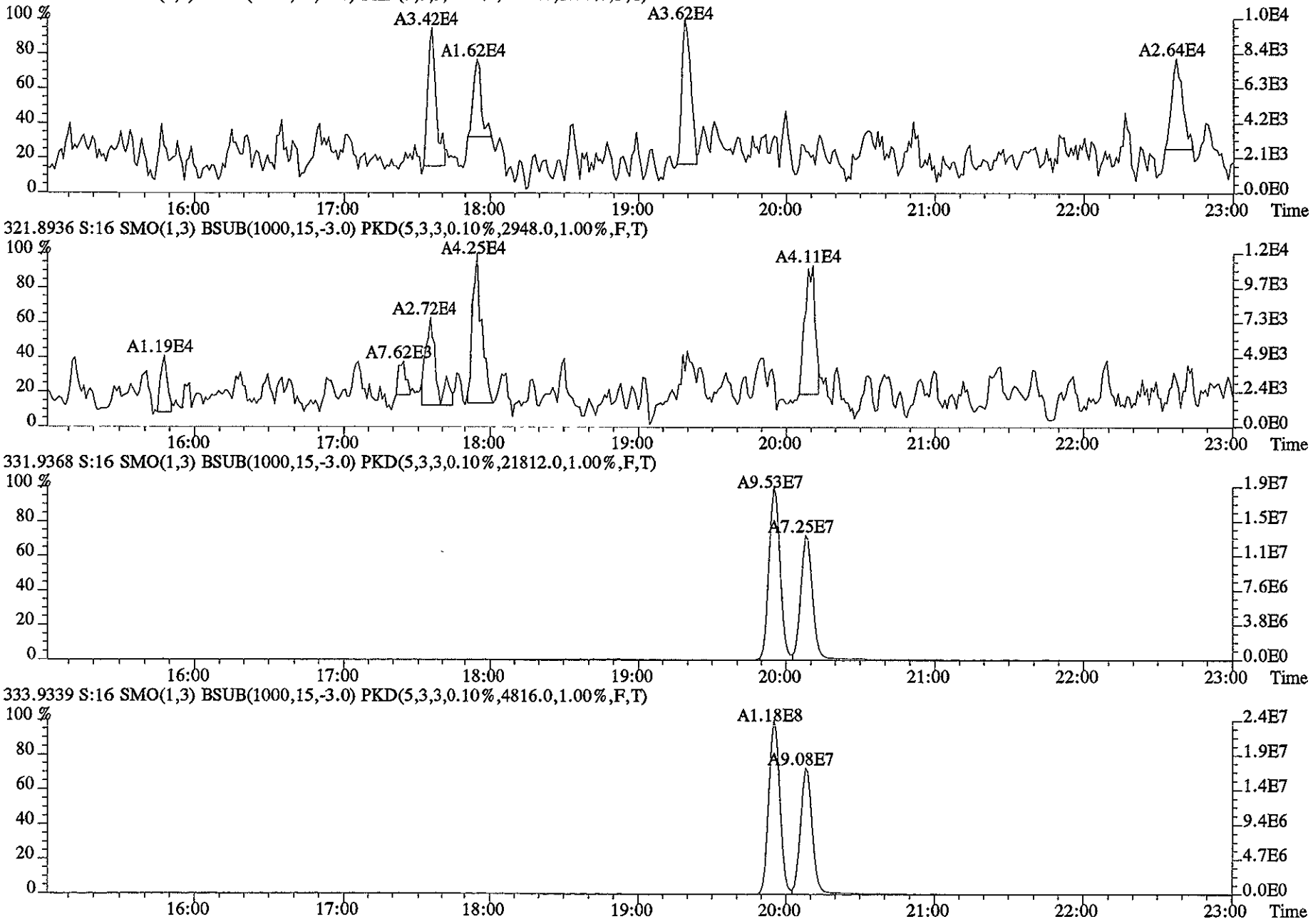
315.9419 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6148.0,1.00%,F,T)



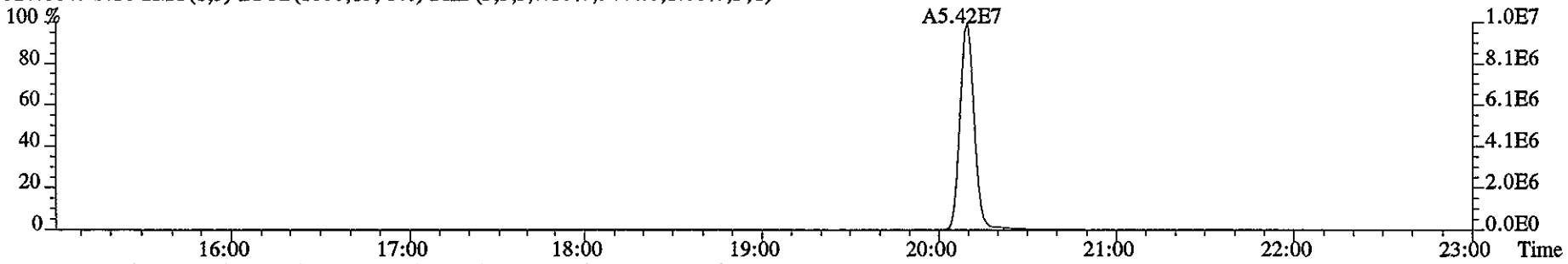
317.9389 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7980.0,1.00%,F,T)



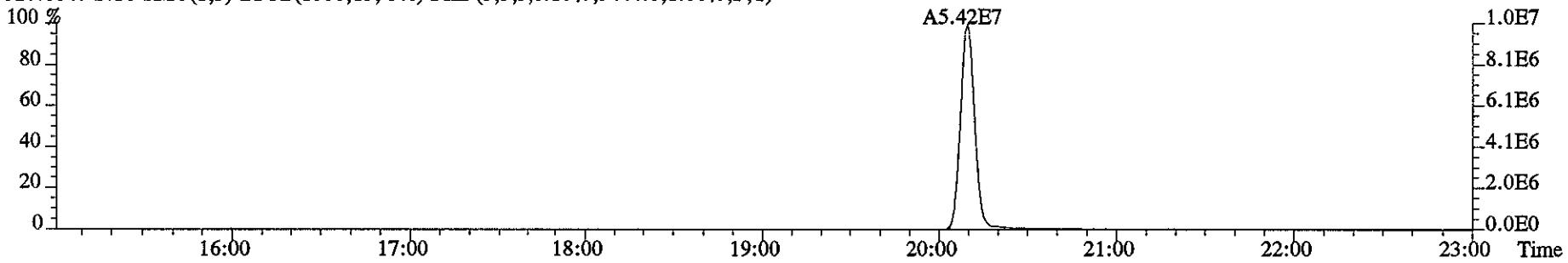
File:07DE104D5 #1-529 Acq: 7-DEC-2010 21:48:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 Text:MAXGD-1-AA :G0L030524-1MB Exp:DIOXINRES



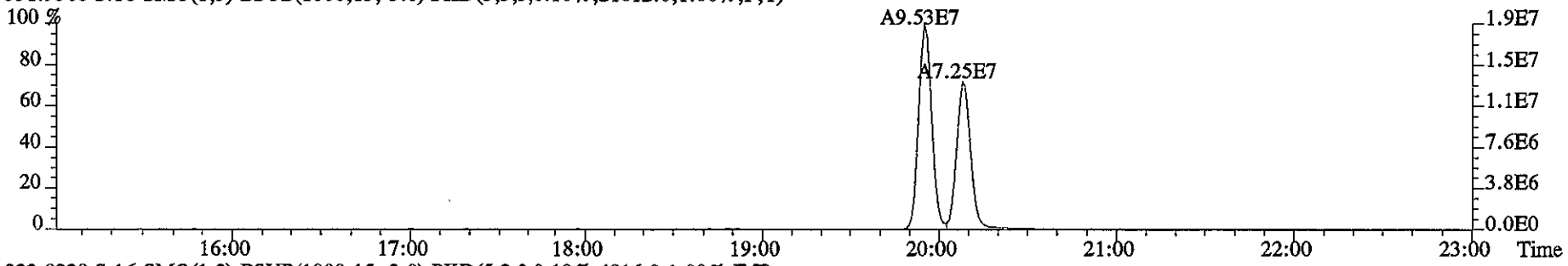
File:07DE104D5 #1-529 Acq: 7-DEC-2010 21:48:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 Text:MAXGD-1-AA :G0L030524-1MB Exp:DIOXINRES
327.8847 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3444.0,1.00%,F,T)



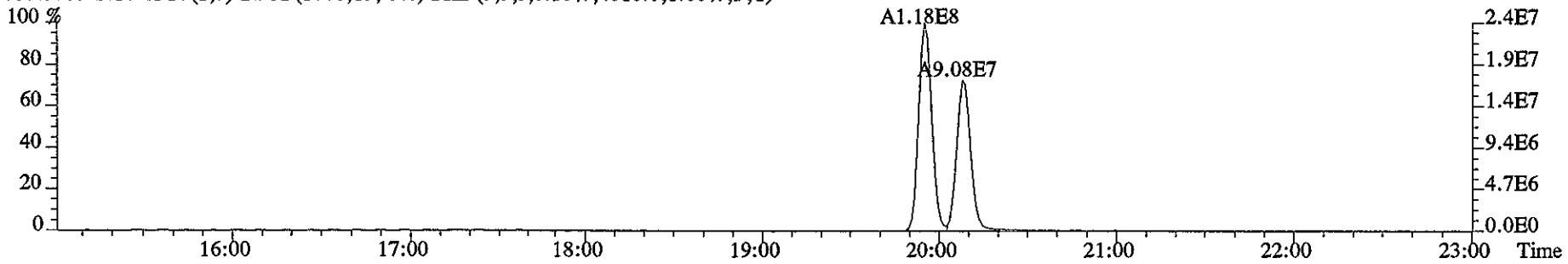
327.8847 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3444.0,1.00%,F,T)



331.9368 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21812.0,1.00%,F,T)

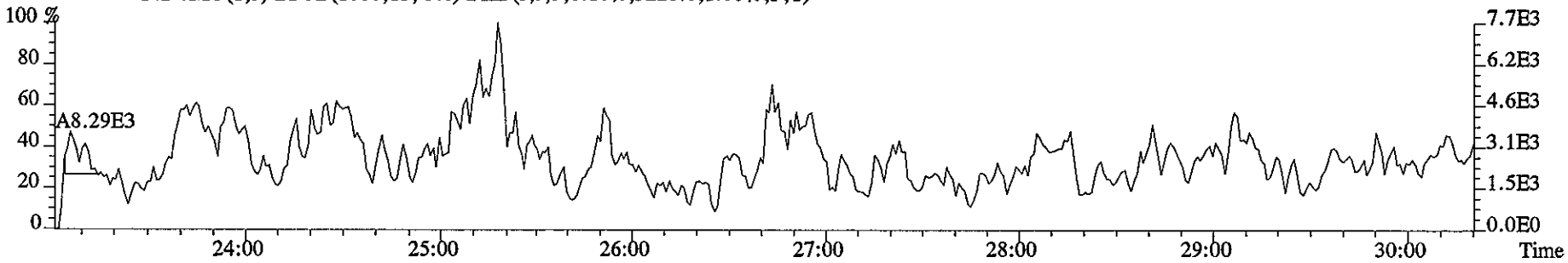


333.9339 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4816.0,1.00%,F,T)

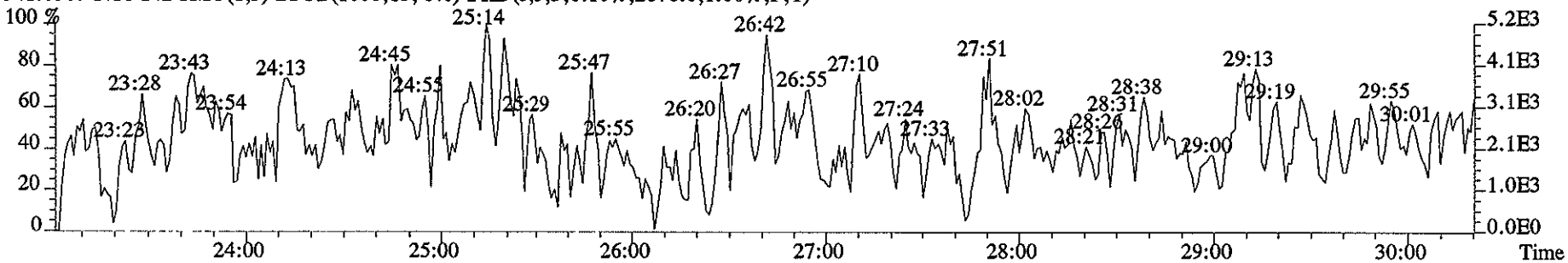


File:07DE104D5 #1-470 Acq: 7-DEC-2010 21:48:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 Text:MAXGD-1-AA :G0L030524-1MB Exp:DIOXINRES

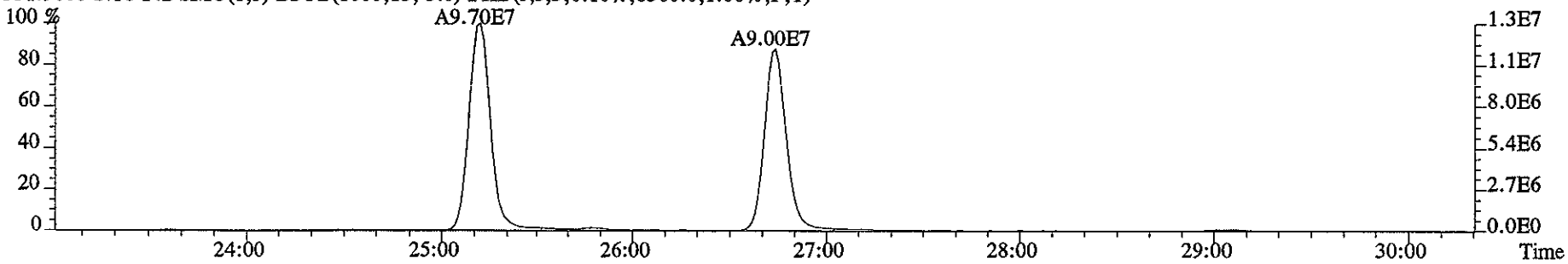
339.8597 S:16 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3228.0,1.00%,F,T)



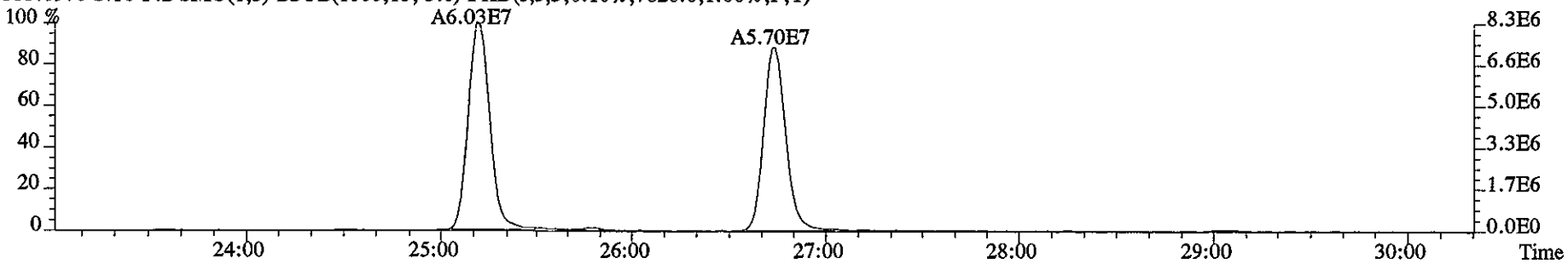
341.8567 S:16 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2876.0,1.00%,F,T)



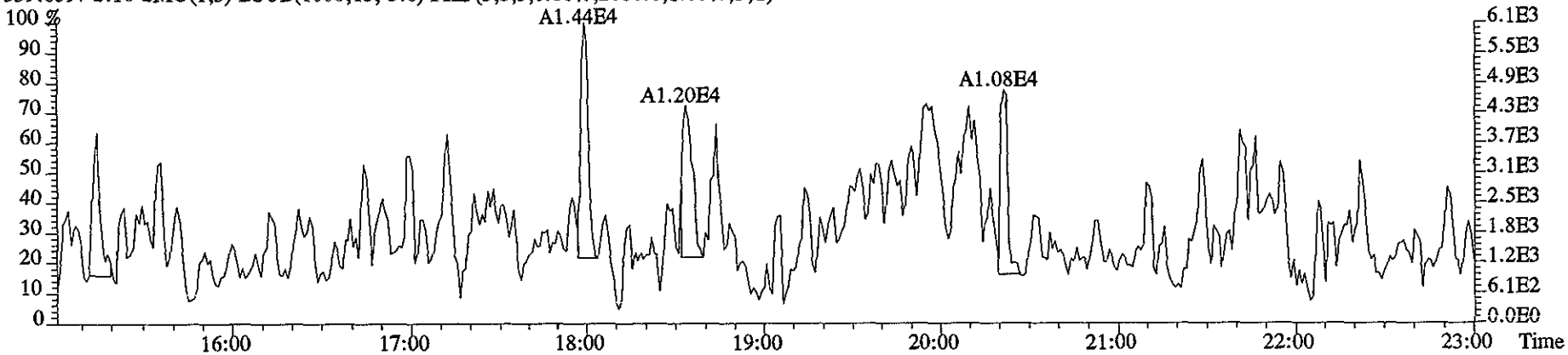
351.9000 S:16 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6560.0,1.00%,F,T)



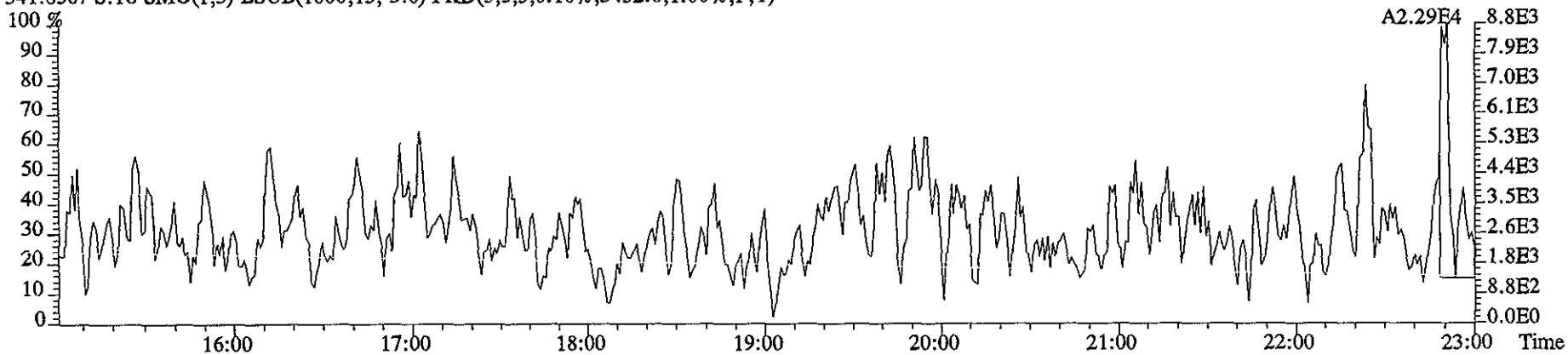
353.8970 S:16 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7828.0,1.00%,F,T)



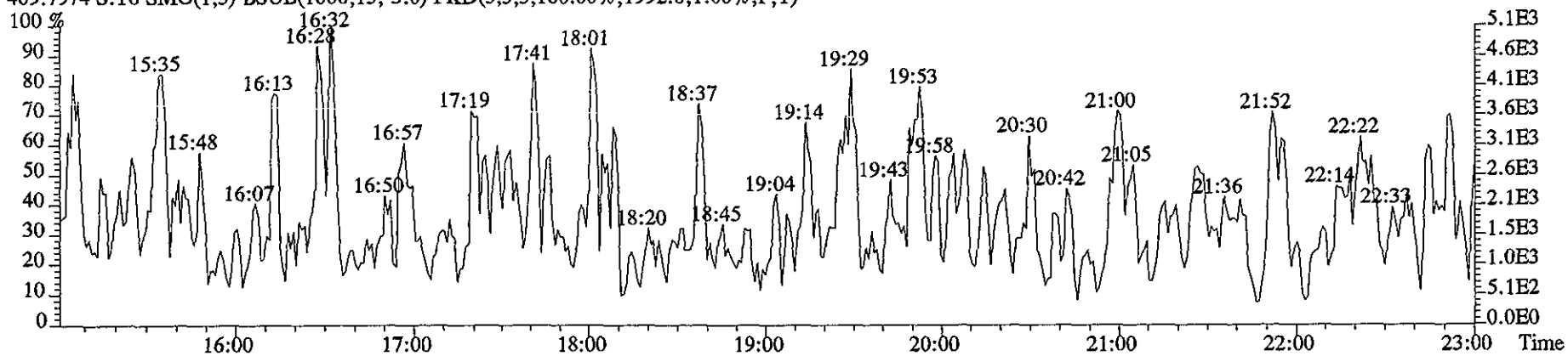
File:07DE104D5 #1-529 Acq: 7-DEC-2010 21:48:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 Text:MAXGD-1-AA :G0L030524-1MB Exp:DIOXINRES
339.8597 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2080.0,1.00%,F,T)



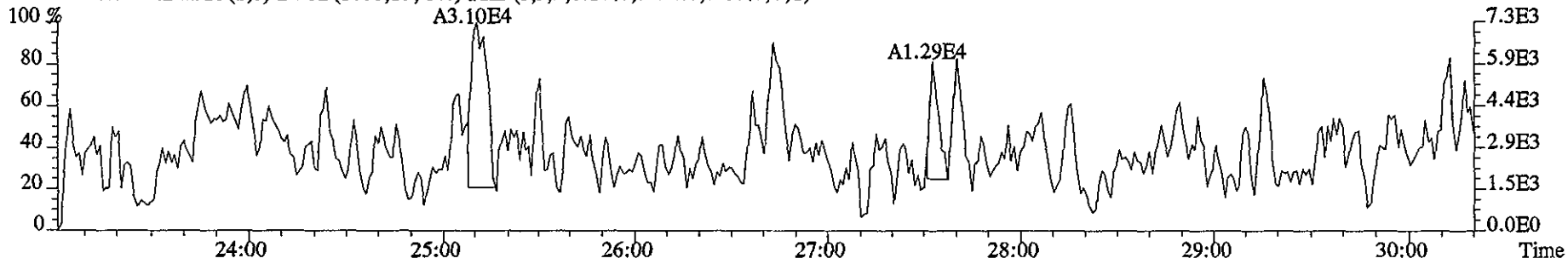
341.8567 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3452.0,1.00%,F,T)



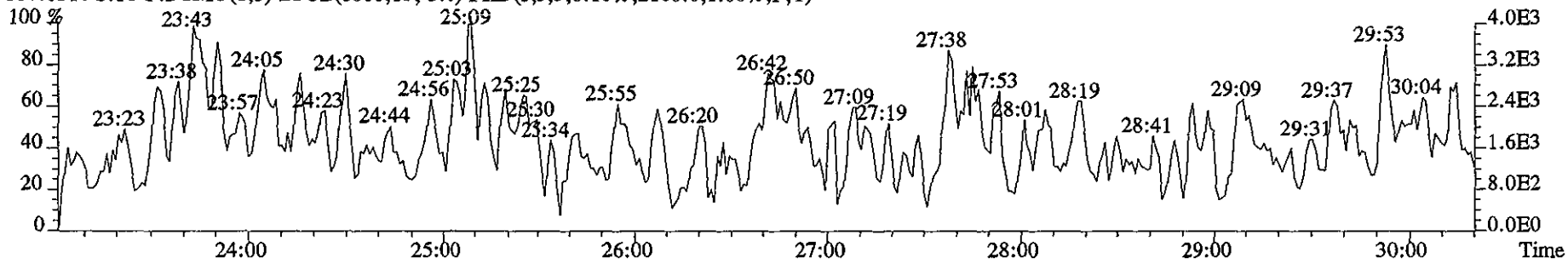
409.7974 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1992.0,1.00%,F,T)



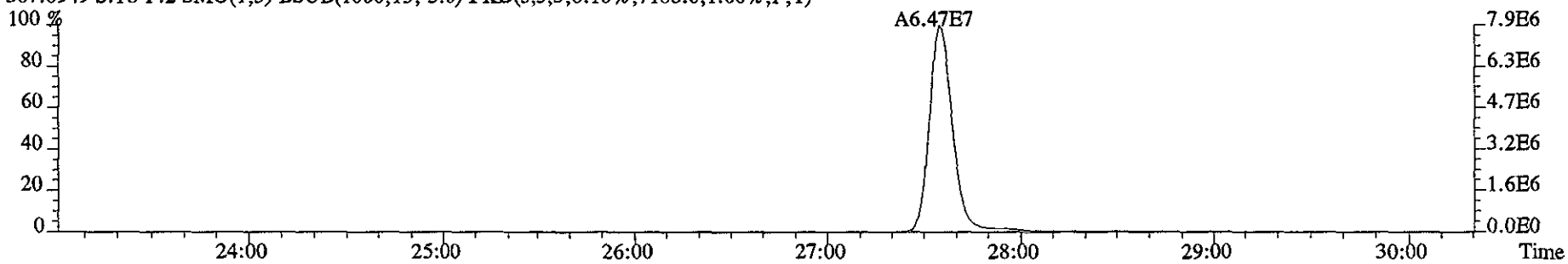
File:07DE104D5 #1-470 Acq: 7-DEC-2010 21:48:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 Text:MAXGD-1-AA :G0L030524-1MB Exp:DIOXINRES
355.8546 S:16 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3524.0,1.00%,F,T)



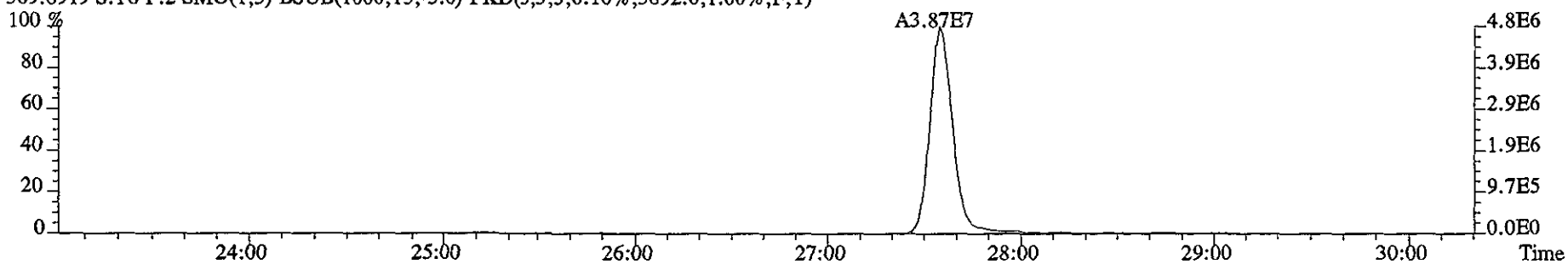
357.8516 S:16 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2160.0,1.00%,F,T)



367.8949 S:16 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7188.0,1.00%,F,T)

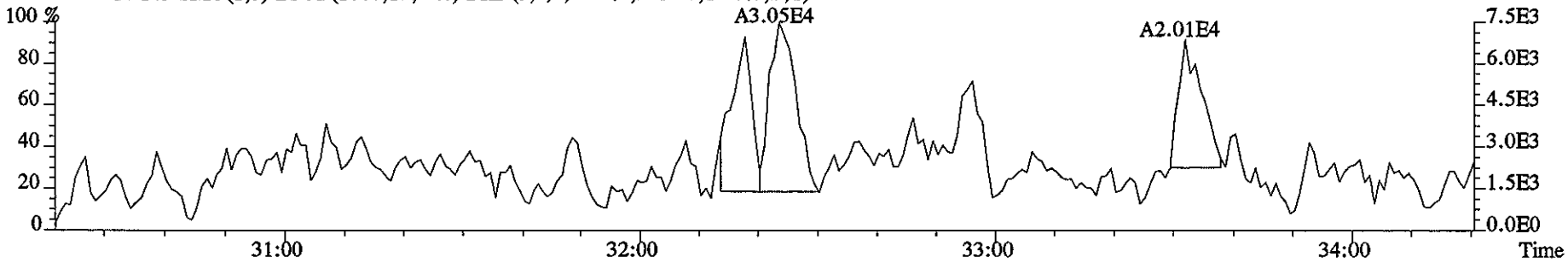


369.8919 S:16 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3892.0,1.00%,F,T)

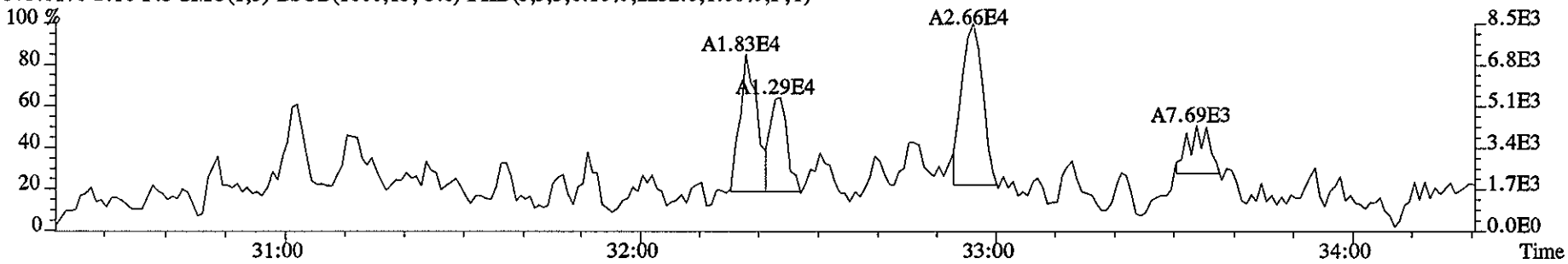


File:07DE104D5 #1-287 Acq: 7-DEC-2010 21:48:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 Text:MAXGD-1-AA :G0L030524-1MB Exp:DIOXINRES

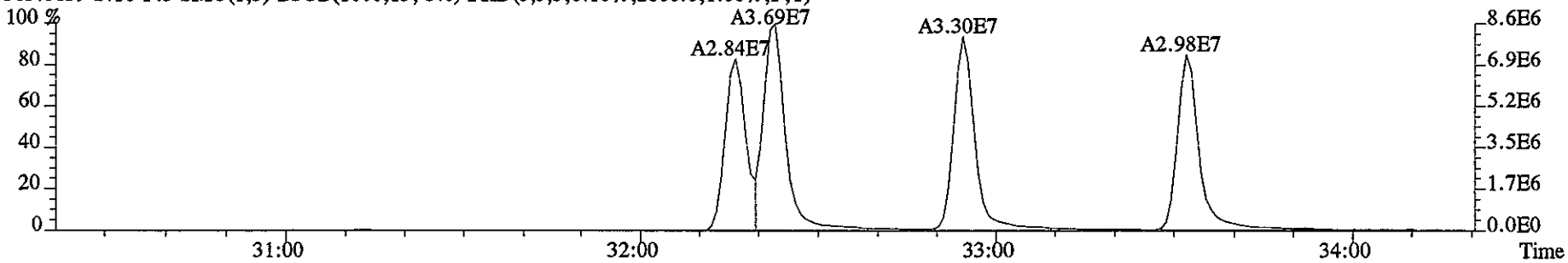
373.8208 S:16 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2712.0,1.00%,F,T)



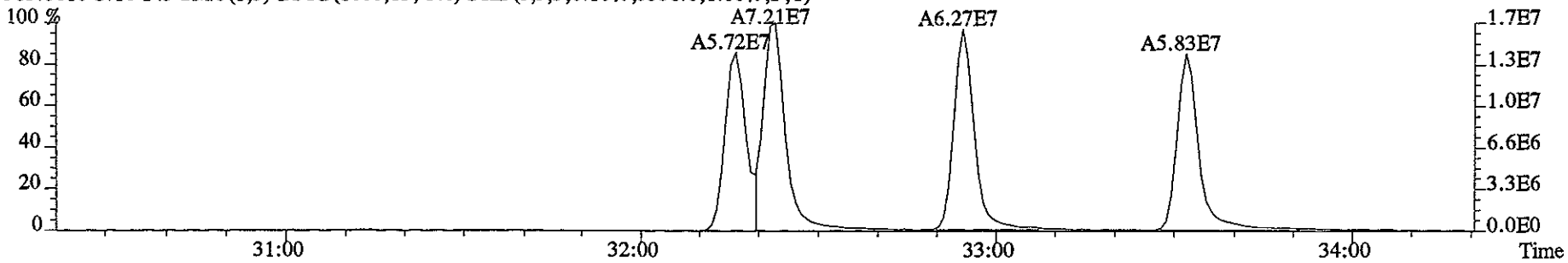
375.8178 S:16 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2232.0,1.00%,F,T)



383.8639 S:16 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2888.0,1.00%,F,T)

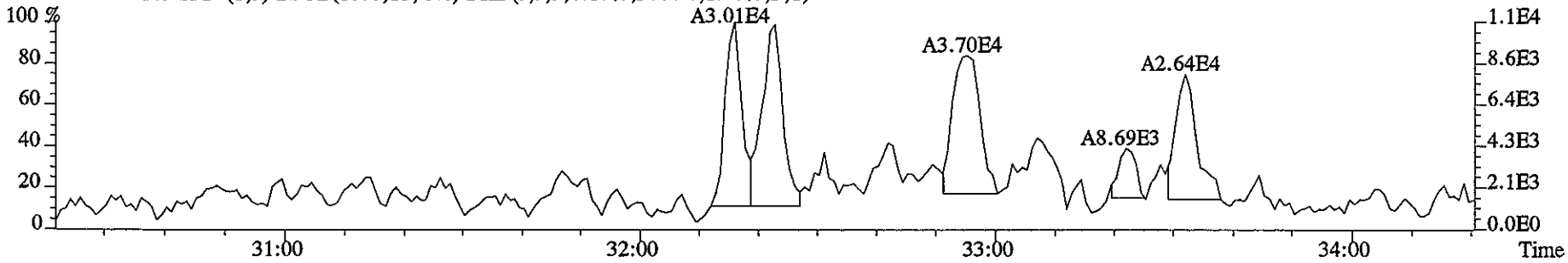


385.8610 S:16 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3356.0,1.00%,F,T)

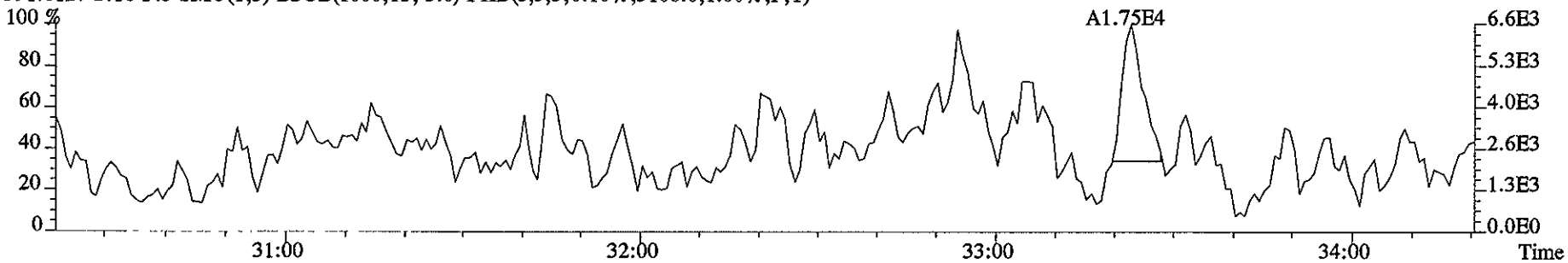


File:07DE104D5 #1-287 Acq: 7-DEC-2010 21:48:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 Text:MAXGD-1-AA :G0L030524-1MB Exp:DIOXINRES

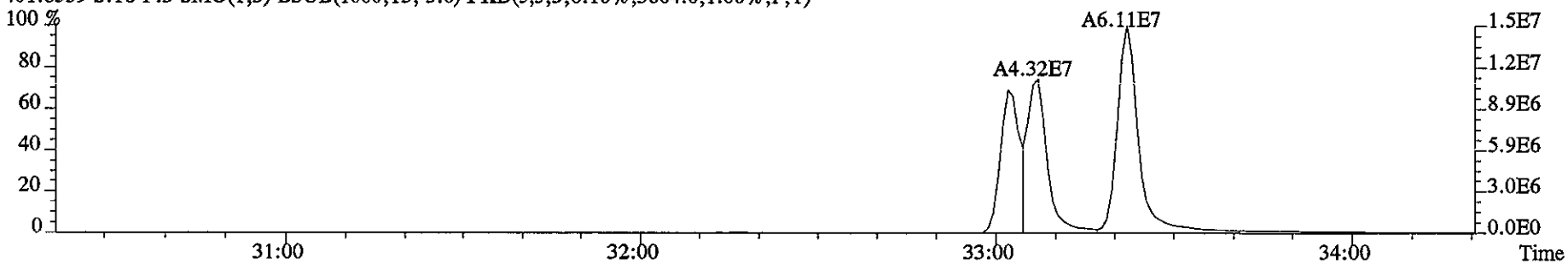
389.8157 S:16 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2084.0,1.00%,F,T)



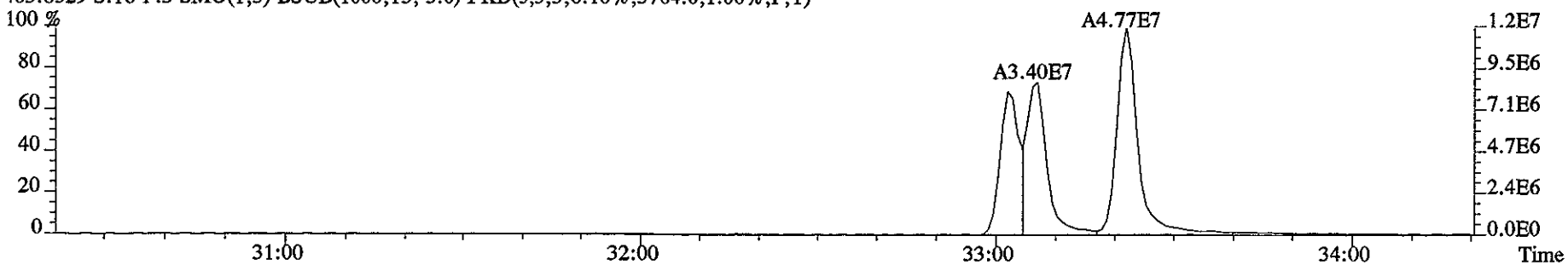
391.8127 S:16 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3108.0,1.00%,F,T)



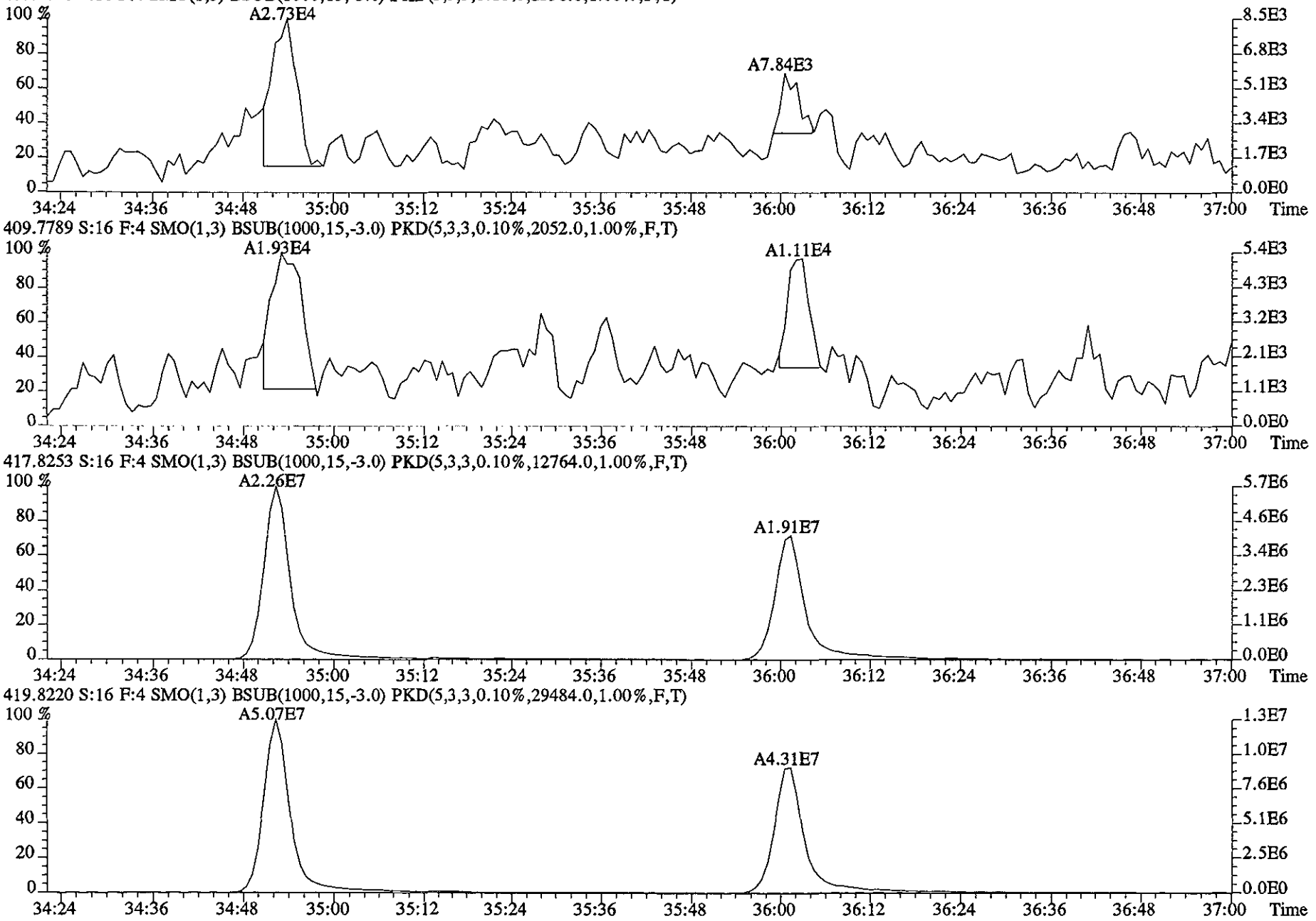
401.8559 S:16 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3004.0,1.00%,F,T)



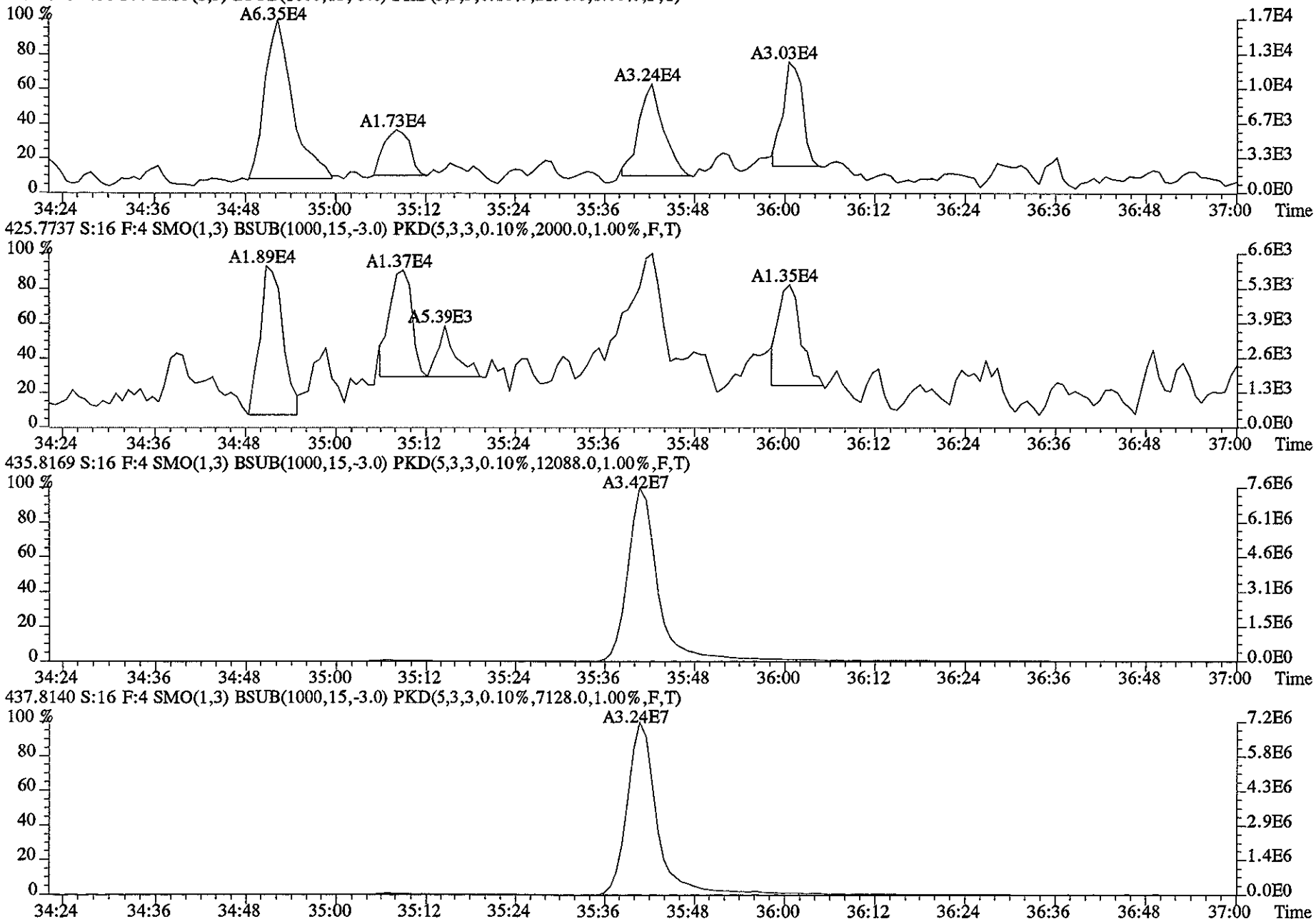
403.8529 S:16 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3764.0,1.00%,F,T)



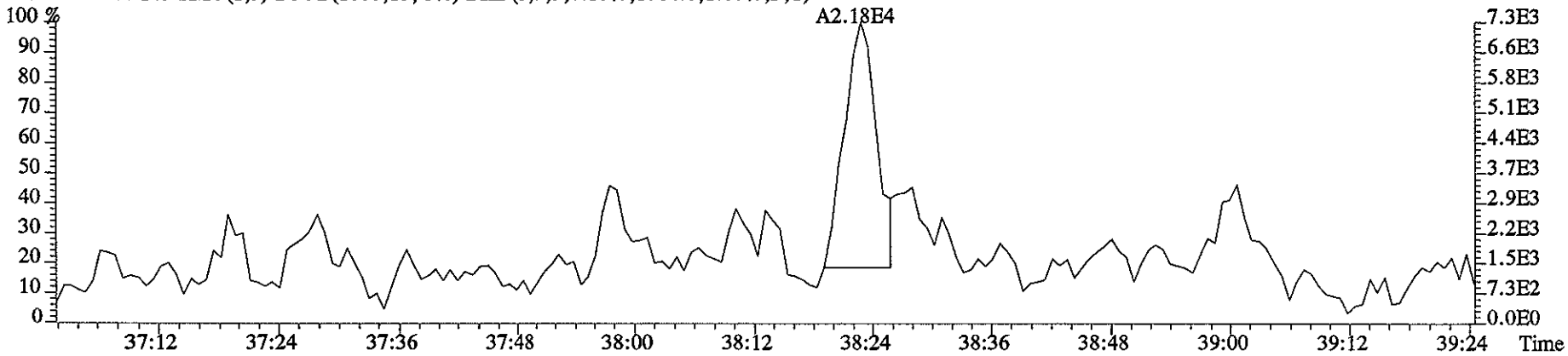
File:07DE104D5 #1-200 Acq: 7-DEC-2010 21:48:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 Text:MAXGD-1-AA :G0L030524-1MB Exp:DIOXINRES



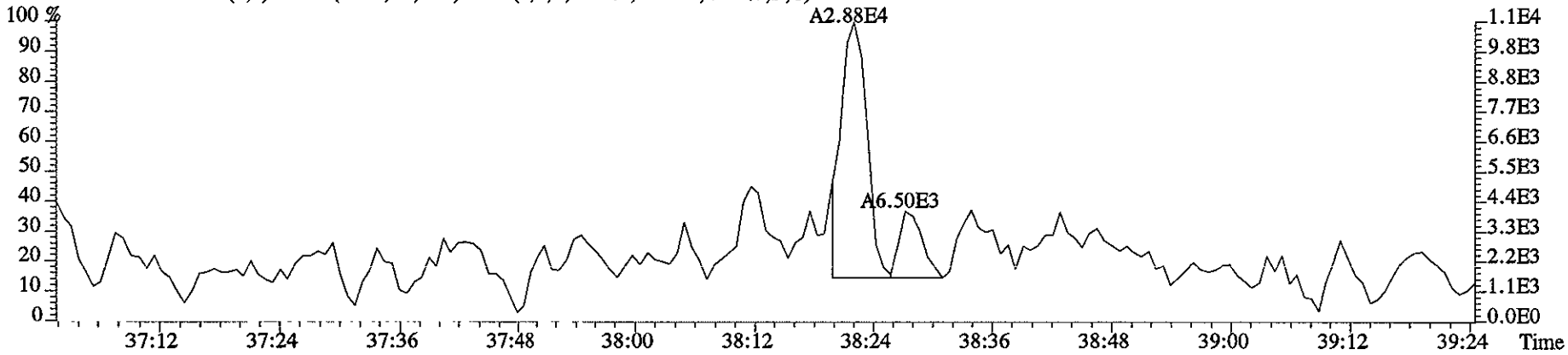
File:07DE104D5 #1-200 Acq: 7-DEC-2010 21:48:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 Text:MAXGD-1-AA :G0L030524-1MB Exp:DIOXINRES



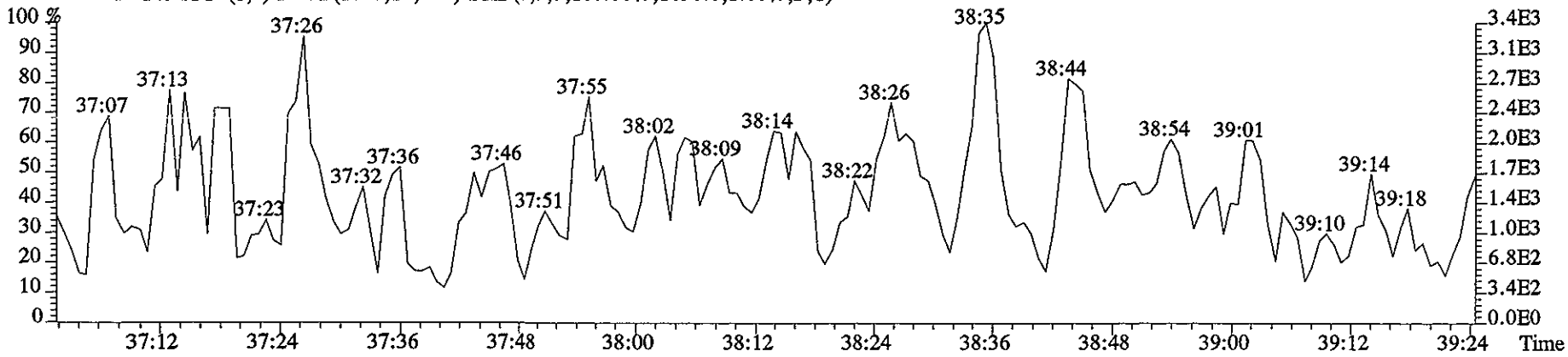
File:07DE104D5 #1-193 Acq: 7-DEC-2010 21:48:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 Text:MAXGD-1-AA :G0L030524-1MB Exp:DIOXINRES
441.7428 S:16 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1764.0,1.00%,F,T)

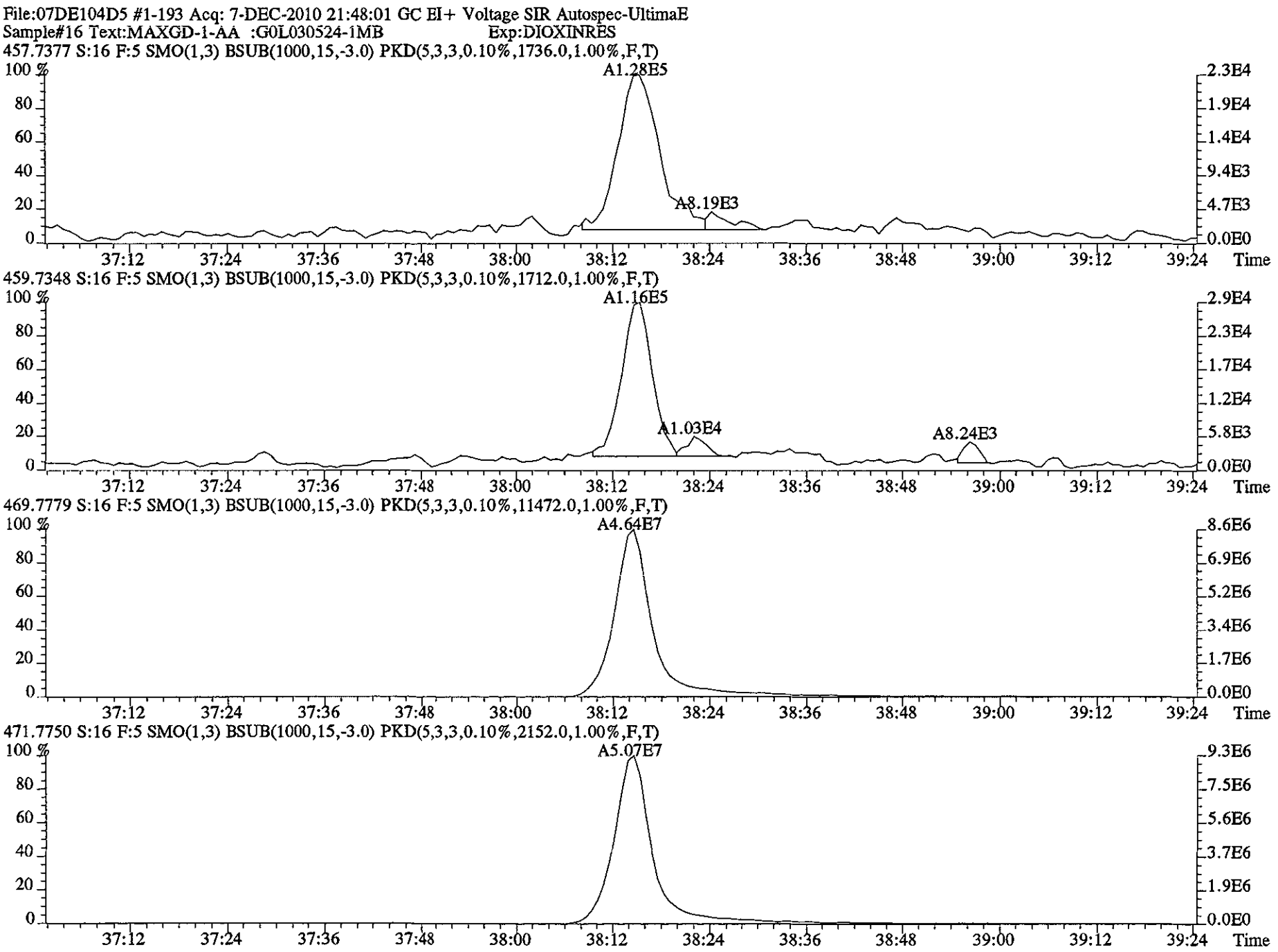


443.7399 S:16 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2844.0,1.00%,F,T)

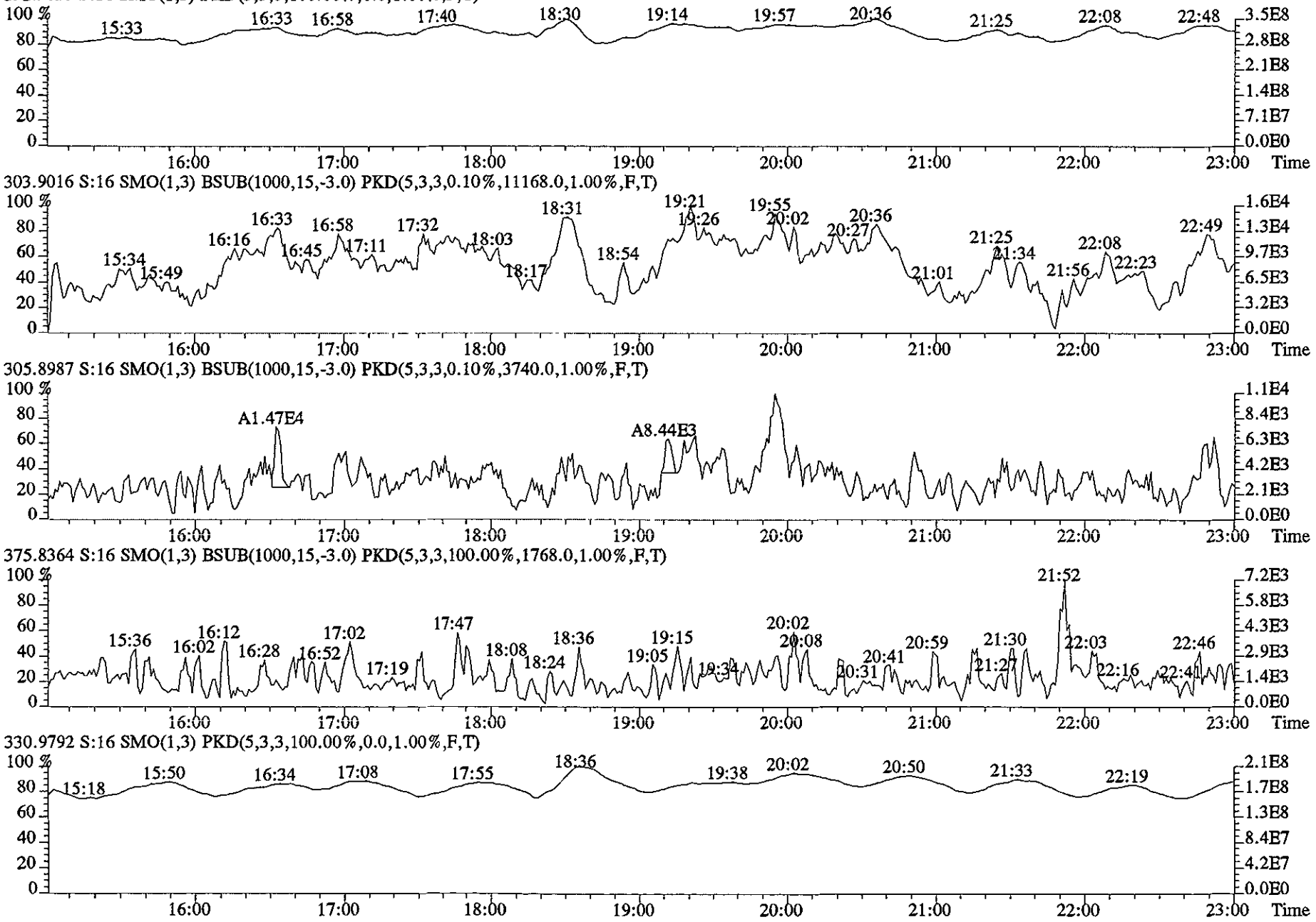


513.6775 S:16 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,1636.0,1.00%,F,T)



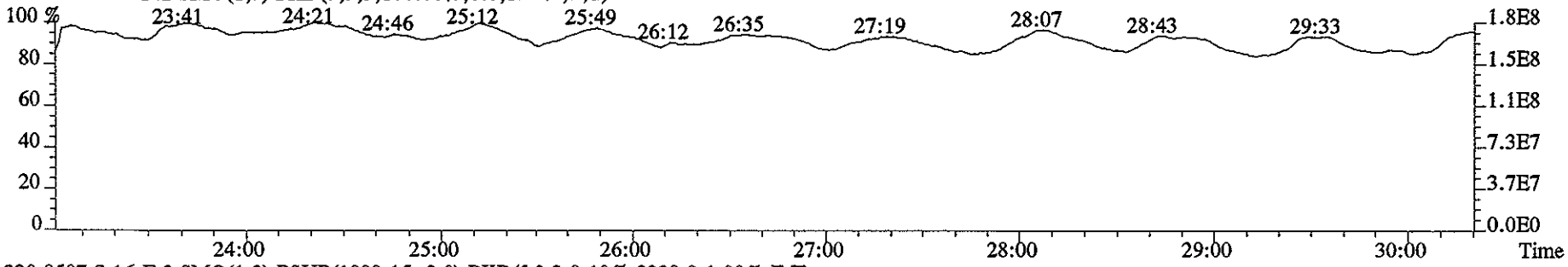

File:07DE104D5 #1-193 Acq: 7-DEC-2010 21:48:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 Text:MAXGD-1-AA :G0L030524-1MB Exp:DIOXINRES
457.7377 S:16 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1736.0,1.00%,F,T)
A1.28E5
A8.19E3
459.7348 S:16 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1712.0,1.00%,F,T)
A1.16E5
A1.03E4
A8.24E3
469.7779 S:16 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11472.0,1.00%,F,T)
A4.64E7
471.7750 S:16 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2152.0,1.00%,F,T)
A5.07E7
100 %
80
60
40
20
0
37:12
37:24
37:36
37:48
38:00
38:12
38:24
38:36
38:48
39:00
39:12
39:24
Time
2.3E4
1.9E4
1.4E4
9.4E3
4.7E3
0.0E0
2.9E4
2.3E4
1.7E4
1.2E4
5.8E3
0.0E0
8.6E6
6.9E6
5.2E6
3.4E6
1.7E6
0.0E0
9.3E6
7.5E6
5.6E6
3.7E6
1.9E6
0.0E0

File:07DE104D5 #1-529 Acq: 7-DEC-2010 21:48:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 Text:MAXGD-1-AA :G0L030524-1MB Exp:DIOXINRES

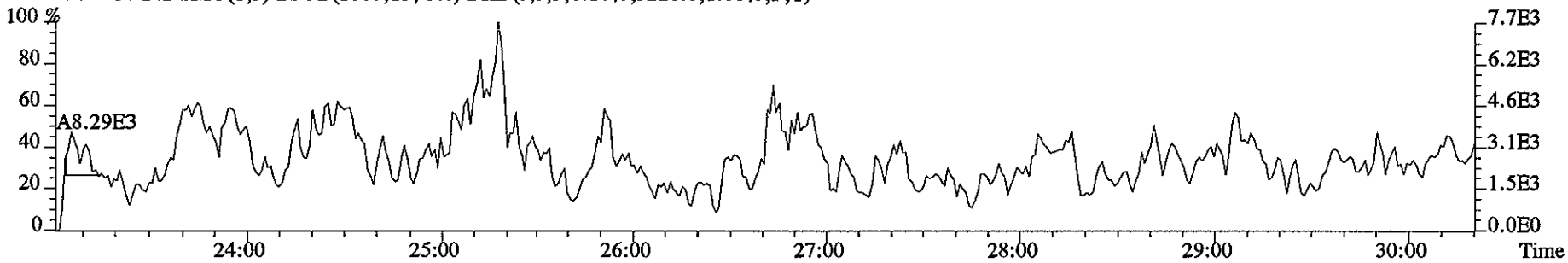


File:07DE104D5 #1-470 Acq: 7-DEC-2010 21:48:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 Text:MAXGD-1-AA :G0L030524-1MB Exp:DIOXINRES

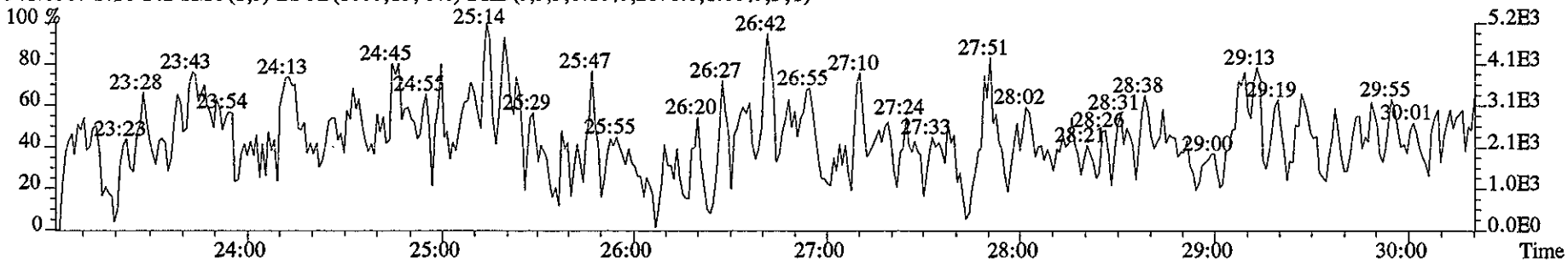
342.9792 S:16 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



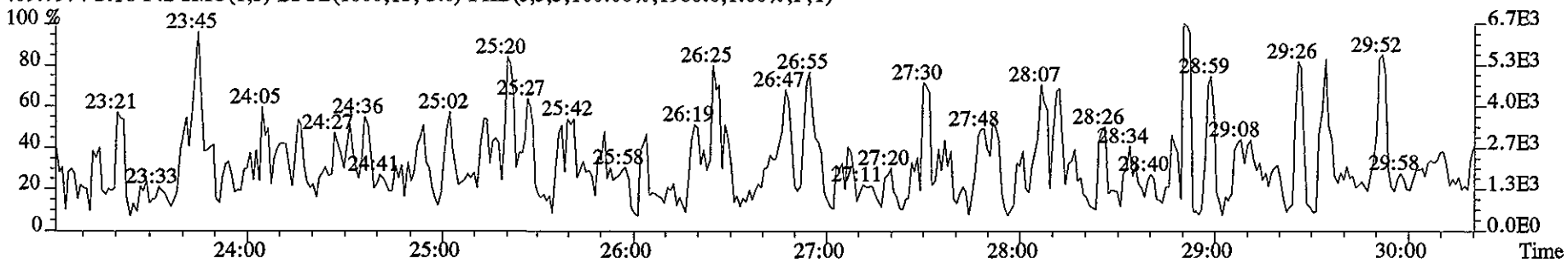
339.8597 S:16 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3228.0,1.00%,F,T)



341.8567 S:16 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2876.0,1.00%,F,T)

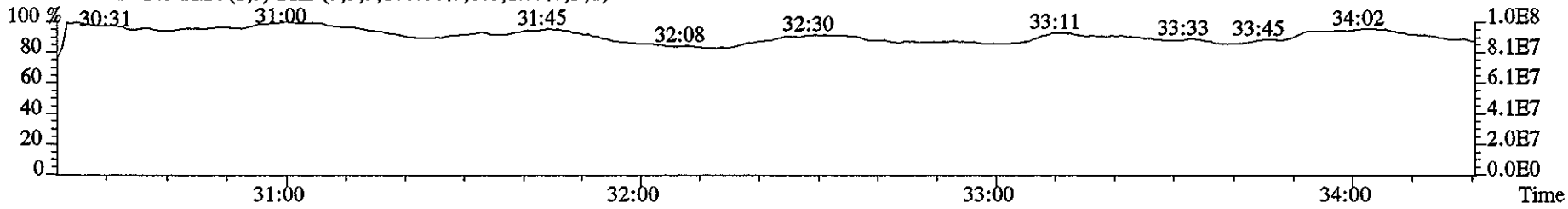


409.7974 S:16 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1980.0,1.00%,F,T)

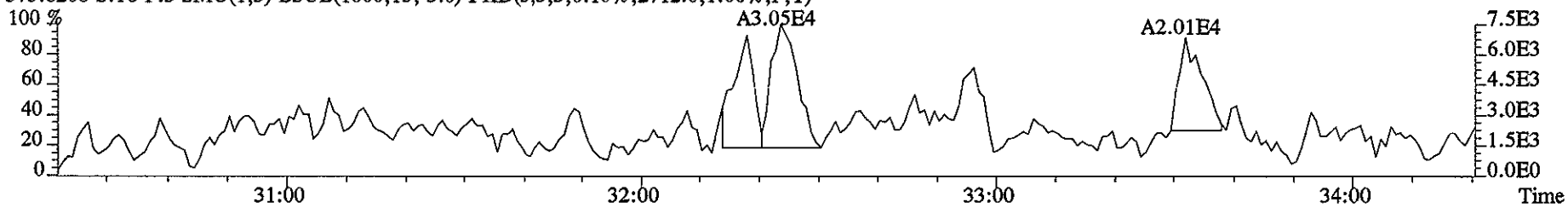


File:07DE104D5 #1-287 Acq: 7-DEC-2010 21:48:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 Text:MAXGD-1-AA :G0L030524-1MB Exp:DIOXINRES

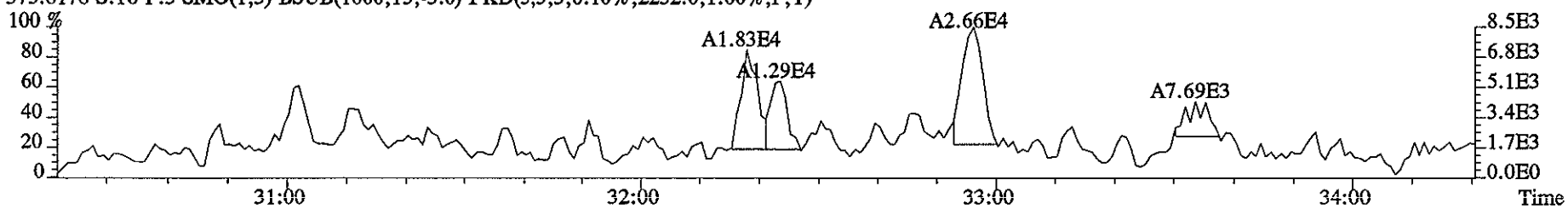
392.9760 S:16 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



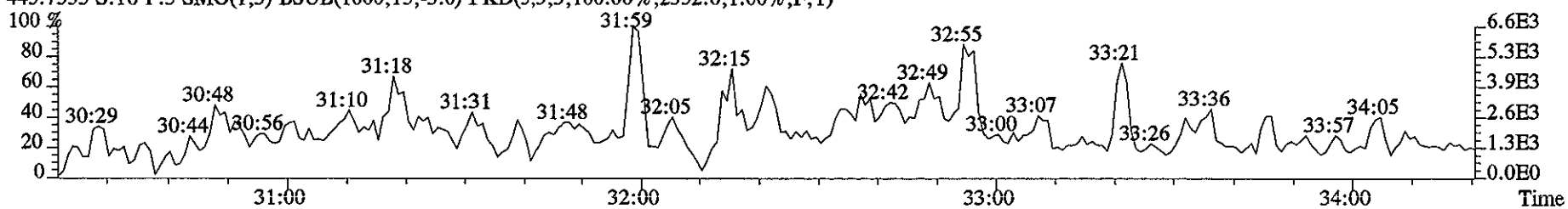
373.8208 S:16 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2712.0,1.00%,F,T)



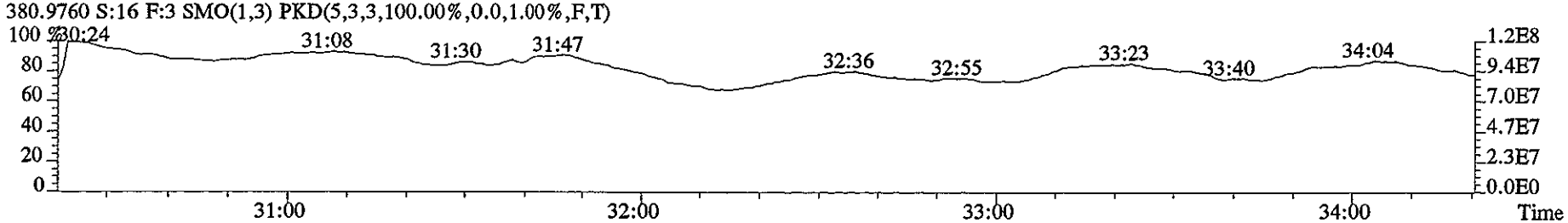
375.8178 S:16 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2232.0,1.00%,F,T)



445.7555 S:16 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2352.0,1.00%,F,T)

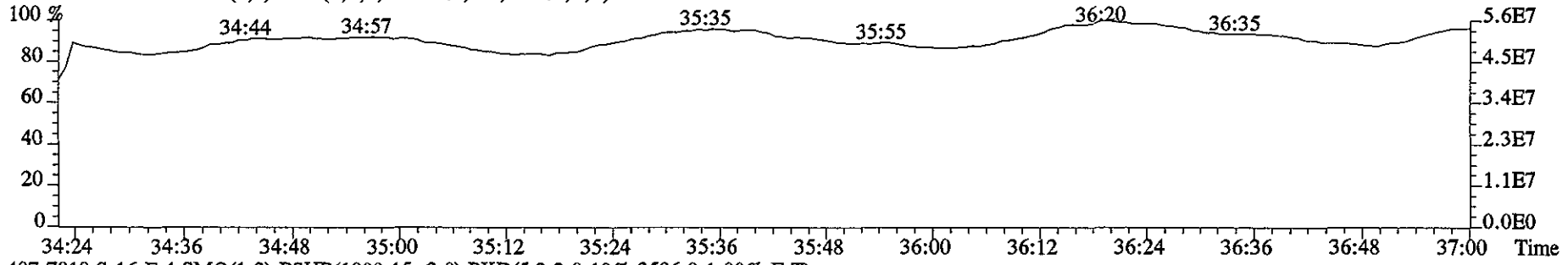


380.9760 S:16 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

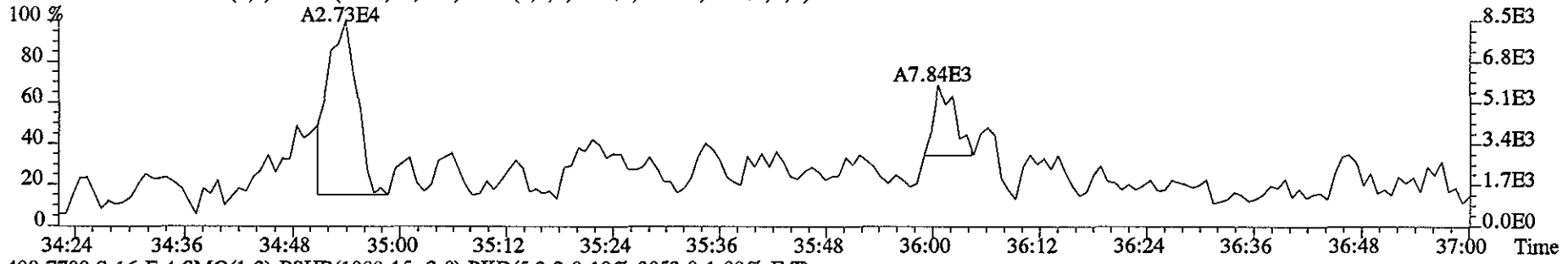


File:07DE104D5 #1-200 Acq: 7-DEC-2010 21:48:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 Text:MAXGD-1-AA :G0L030524-1MB Exp:DIOXINRES

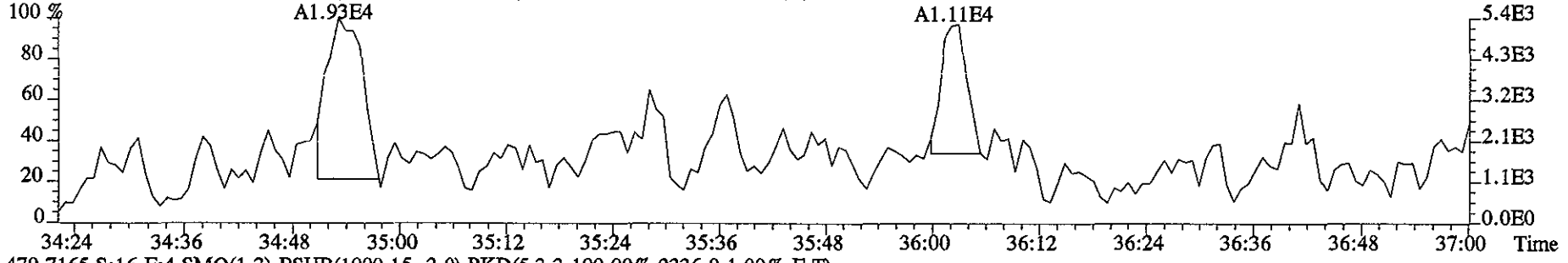
430.9728 S:16 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



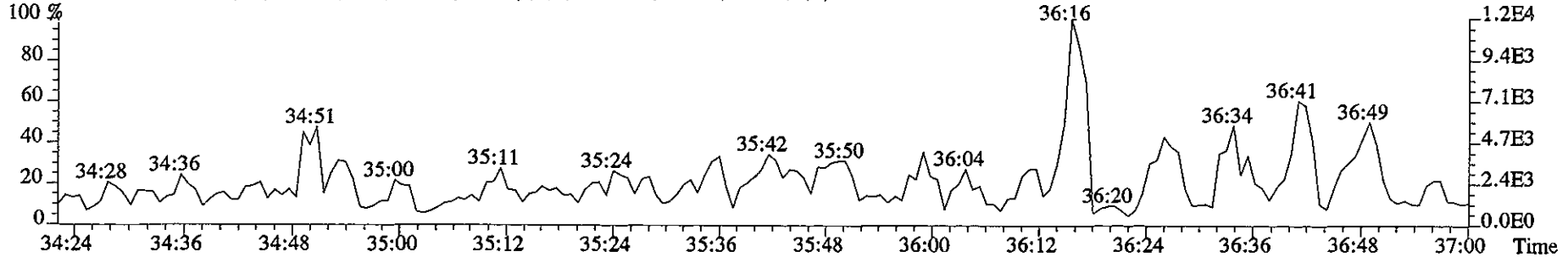
407.7818 S:16 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2596.0,1.00%,F,T)



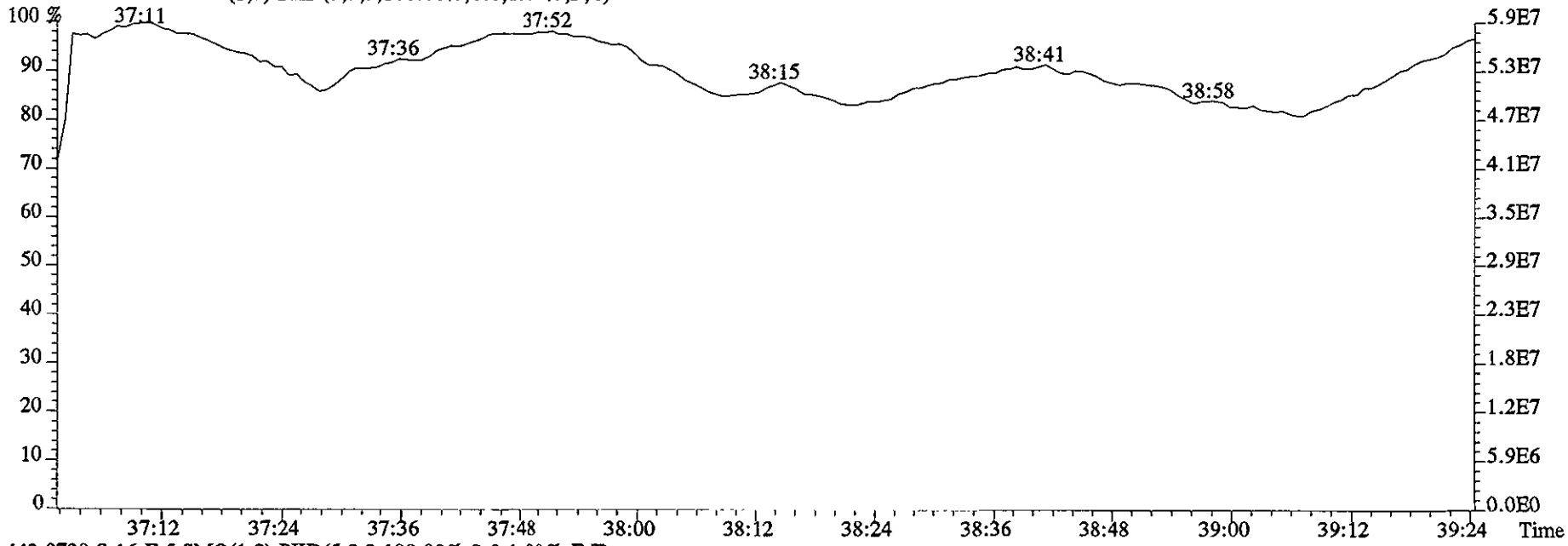
409.7789 S:16 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2052.0,1.00%,F,T)



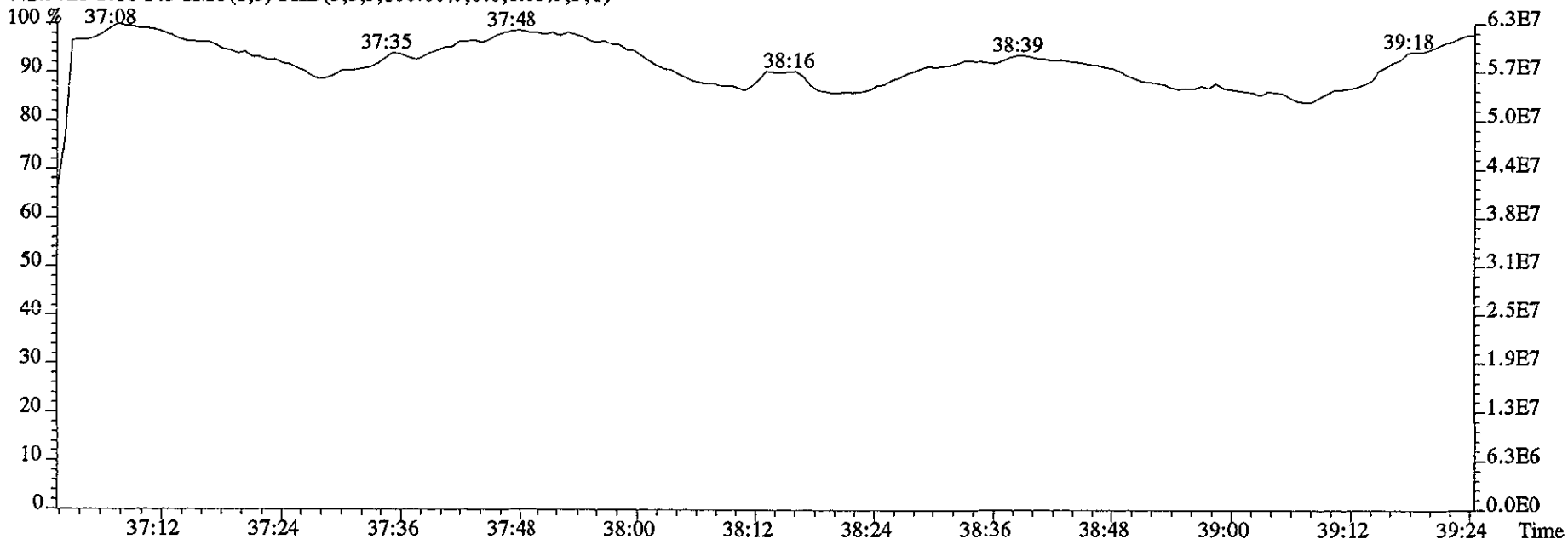
479.7165 S:16 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2336.0,1.00%,F,T)



File:07DE104D5 #1-193 Acq: 7-DEC-2010 21:48:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#16 Text:MAXGD-1-AA :G0L030524-1MB Exp:DIOXINRES
454.9728 S:16 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

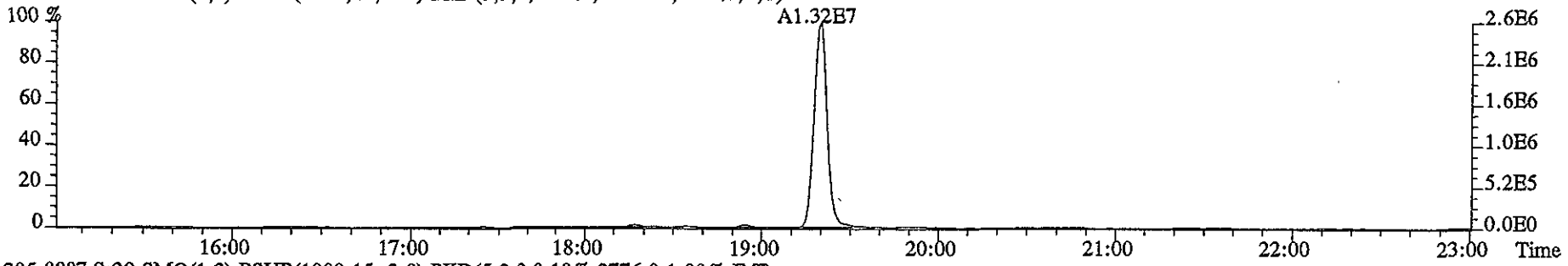


442.9728 S:16 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

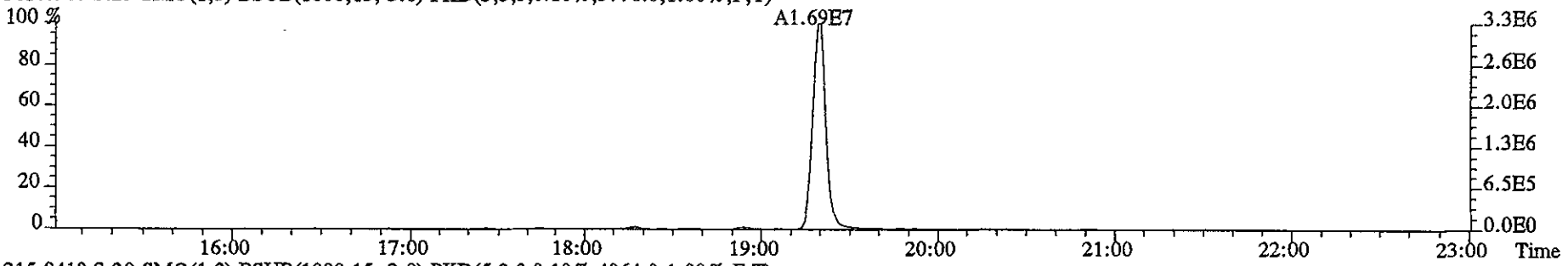


File:07DE104D5 #1-530 Acq: 8-DEC-2010 07:26:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#29 Text:ST1207C :CS3 10DXN461 Exp:DIOXINRES

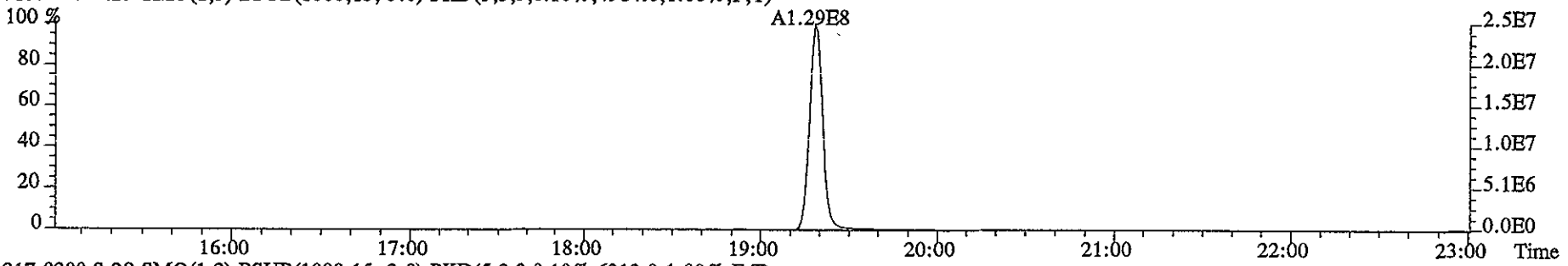
303.9016 S:29 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14876.0,1.00%,F,T)



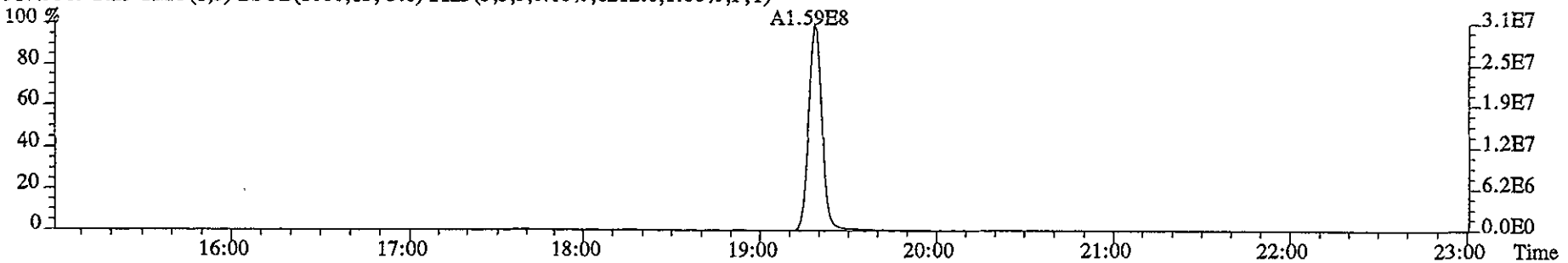
305.8987 S:29 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3776.0,1.00%,F,T)



315.9419 S:29 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4964.0,1.00%,F,T)

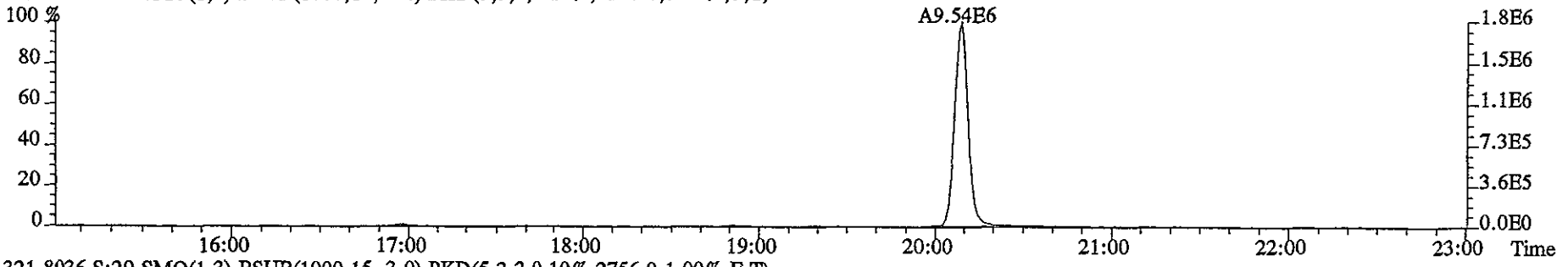


317.9389 S:29 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6212.0,1.00%,F,T)

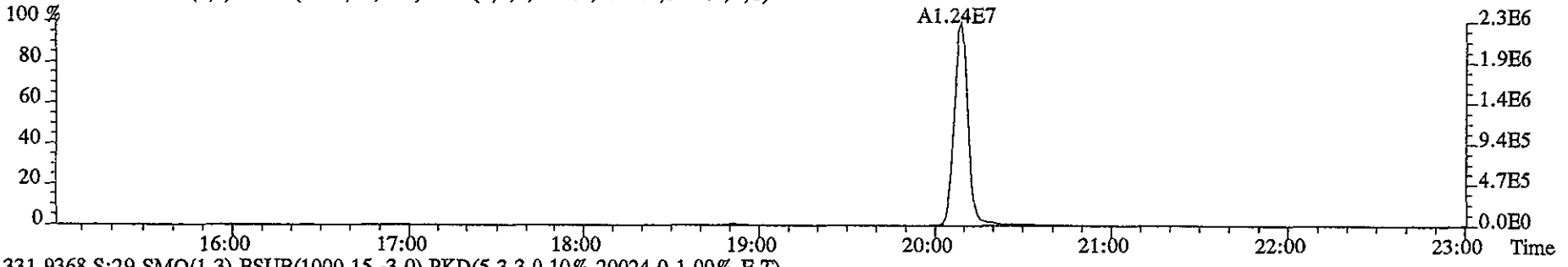


File:07DE104D5 #1-530 Acq: 8-DEC-2010 07:26:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#29 Text:ST1207C :CS3 10DXN461 Exp:DIOXINRES

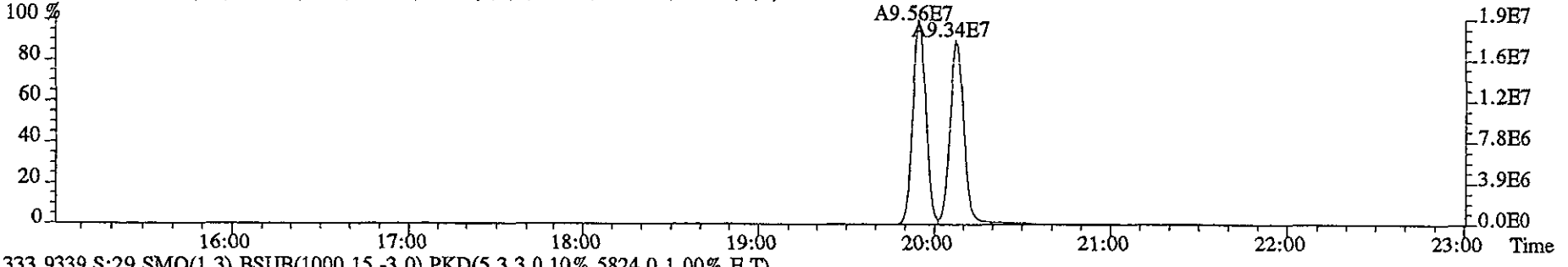
319.8965 S:29 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3260.0,1.00%,F,T)



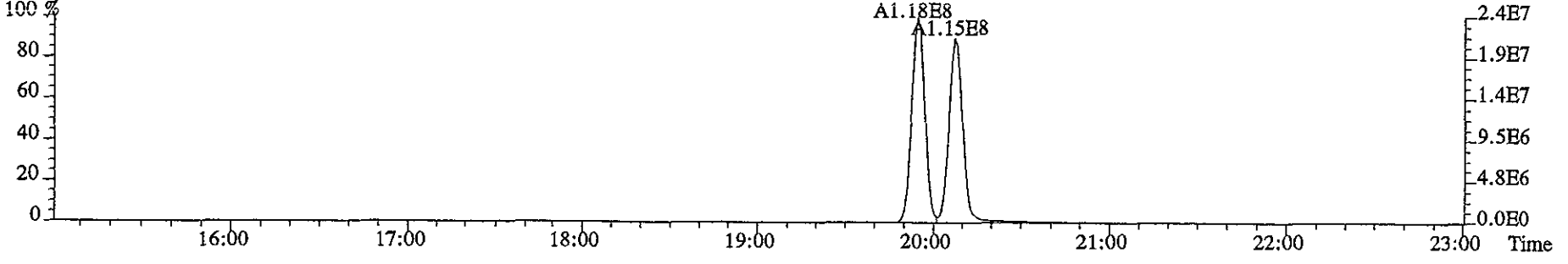
321.8936 S:29 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2756.0,1.00%,F,T)



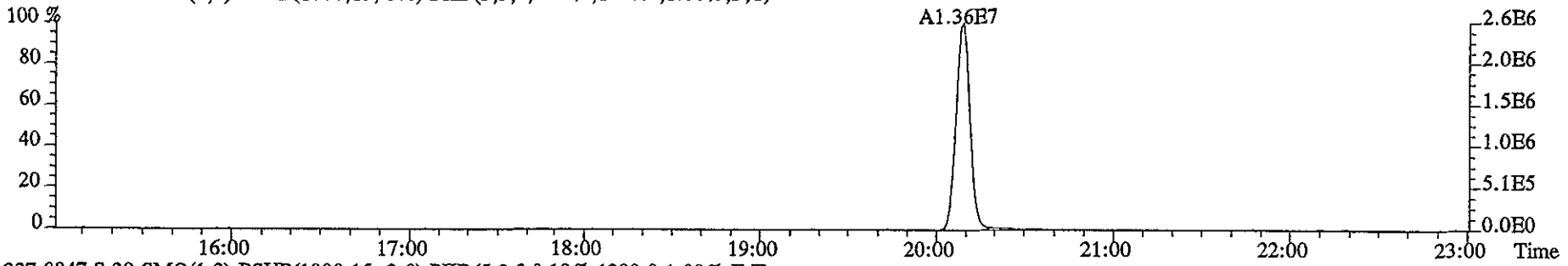
331.9368 S:29 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20024.0,1.00%,F,T)



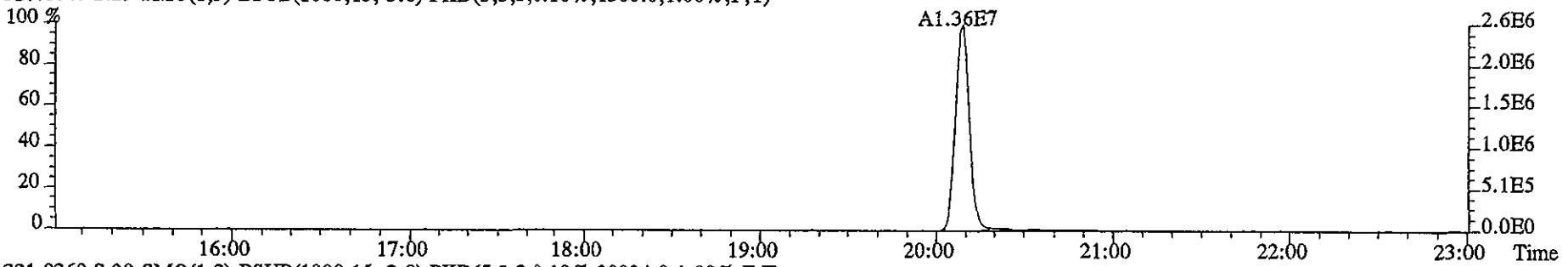
333.9339 S:29 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5824.0,1.00%,F,T)



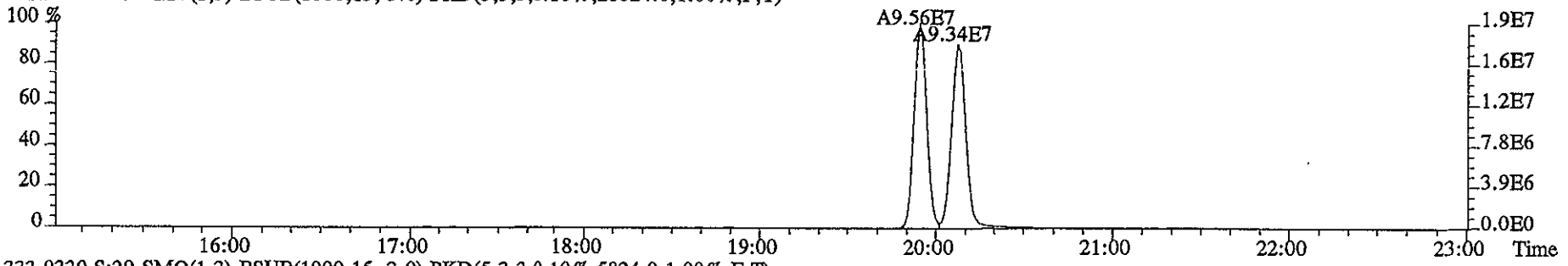
File:07DE104D5 #1-530 Acq: 8-DEC-2010 07:26:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#29 Text:ST1207C :CS3 10DXN461 Exp:DIOXINRES
327.8847 S:29 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1300.0,1.00%,F,T)



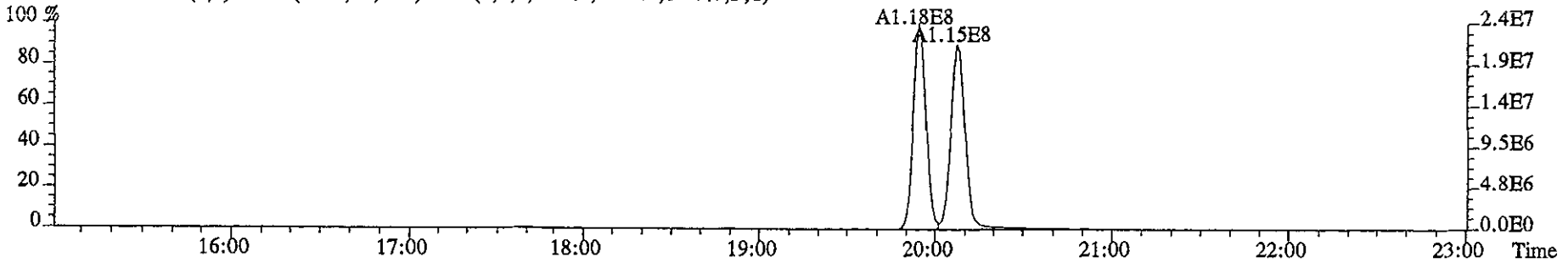
327.8847 S:29 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1300.0,1.00%,F,T)



331.9368 S:29 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20024.0,1.00%,F,T)

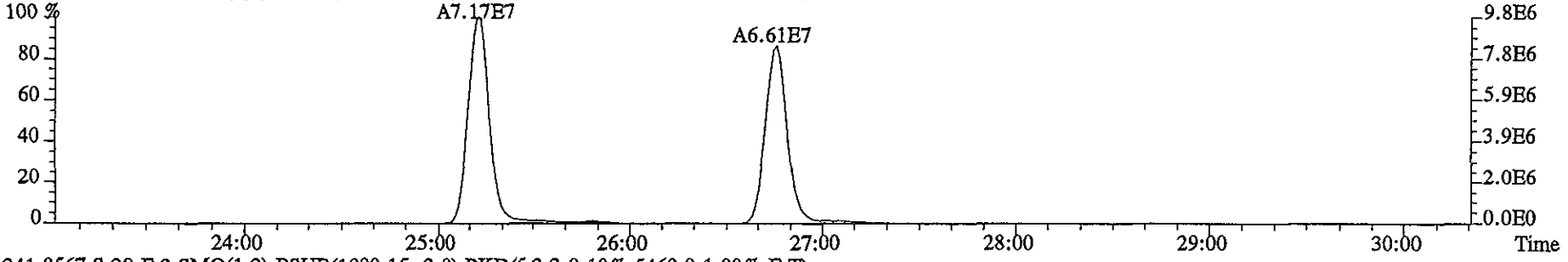


333.9339 S:29 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5824.0,1.00%,F,T)

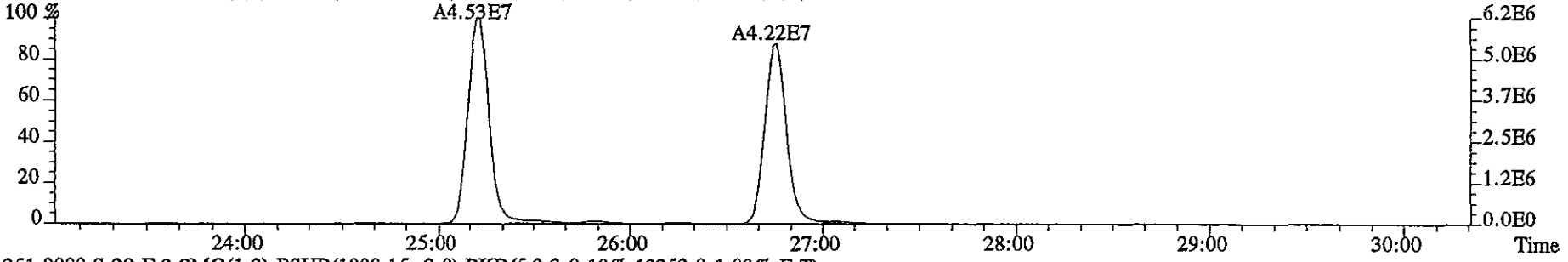


File:07DE104D5 #1-470 Acq: 8-DEC-2010 07:26:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#29 Text:ST1207C :CS3 10DXN461 Exp:DIOXINRES

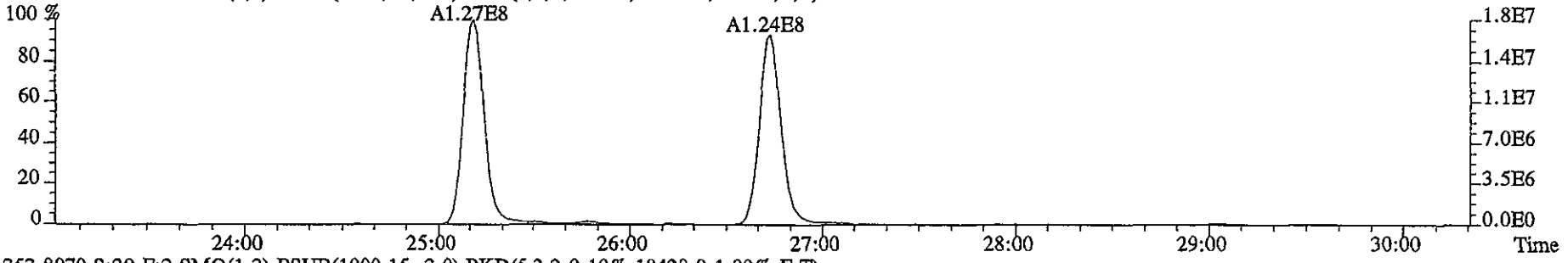
339.8597 S:29 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5008.0,1.00%,F,T)



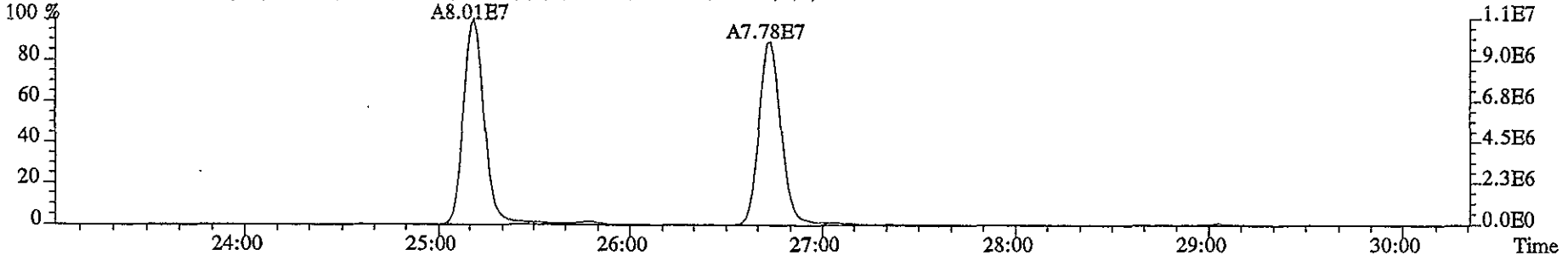
341.8567 S:29 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5460.0,1.00%,F,T)



351.9000 S:29 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12252.0,1.00%,F,T)

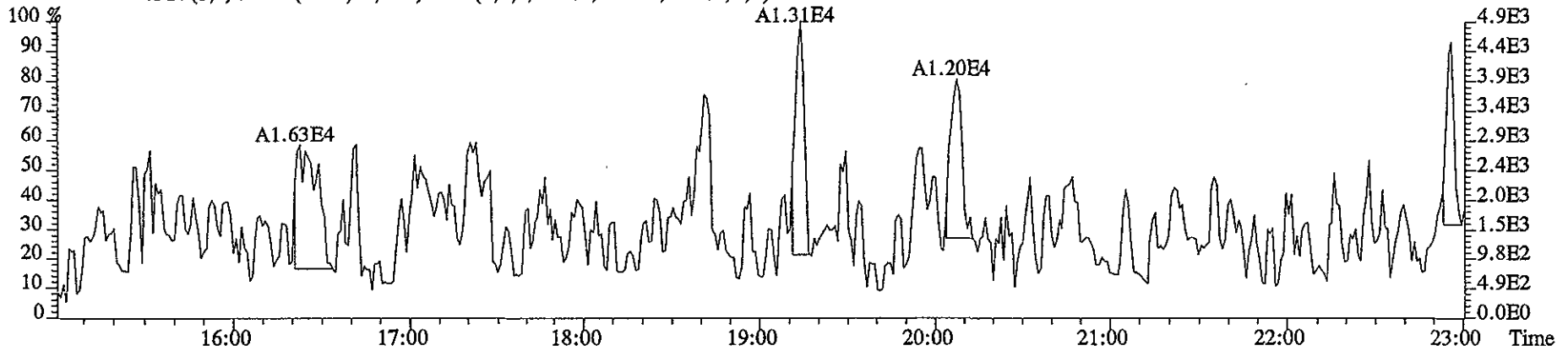


353.8970 S:29 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10428.0,1.00%,F,T)

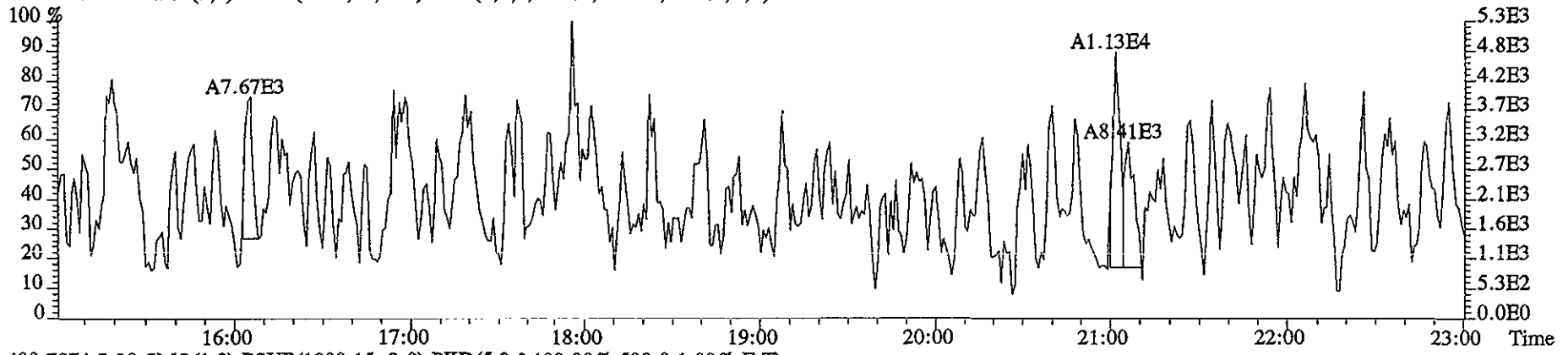


File:07DE104D5 #1-530 Acq: 8-DEC-2010 07:26:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#29 Text:ST1207C :CS3 10DXN461 Exp:DIOXINRES

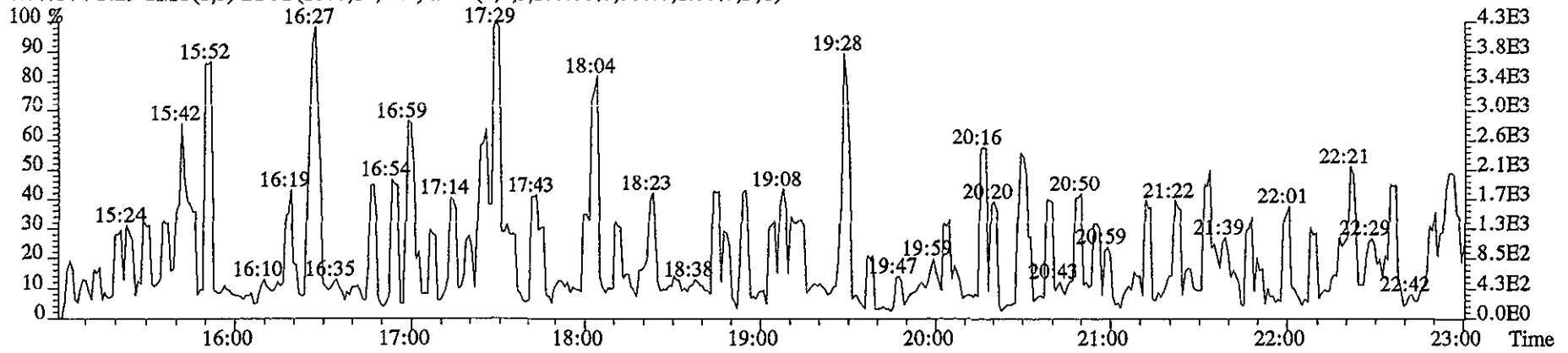
339.8597 S:29 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1772.0,1.00%,F,T)



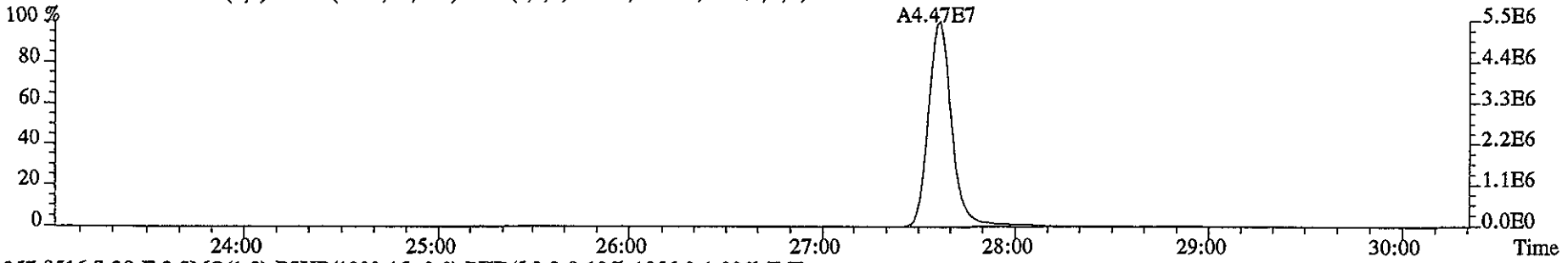
341.8567 S:29 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2756.0,1.00%,F,T)



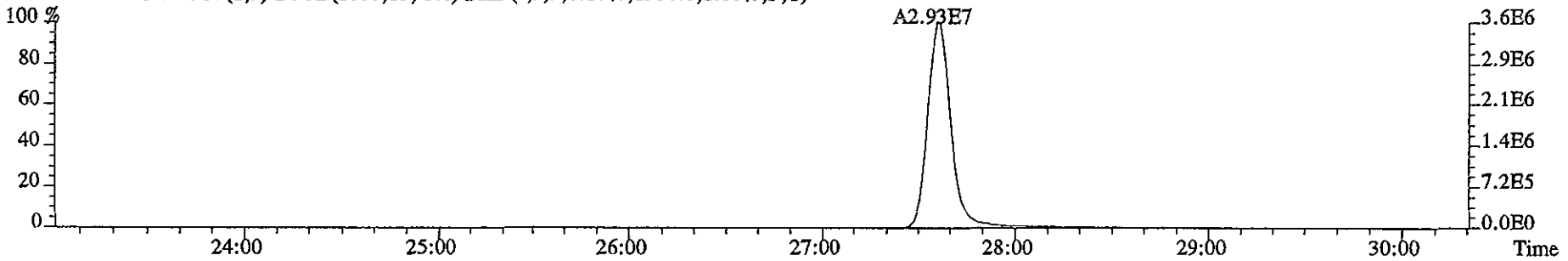
409.7974 S:29 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,508.0,1.00%,F,T)



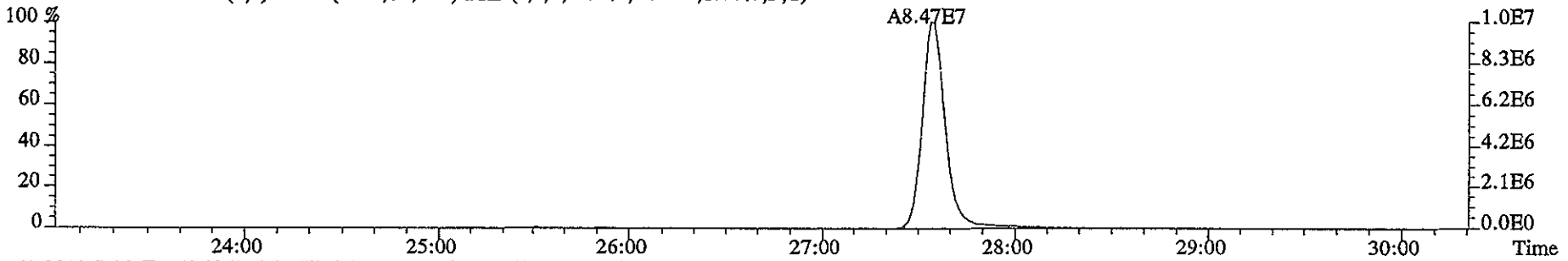
File:07DE104D5 #1-470 Acq: 8-DEC-2010 07:26:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#29 Text:ST1207C :CS3 10DXN461 Exp:DIOXINRES
355.8546 S:29 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4132.0,1.00%,F,T)



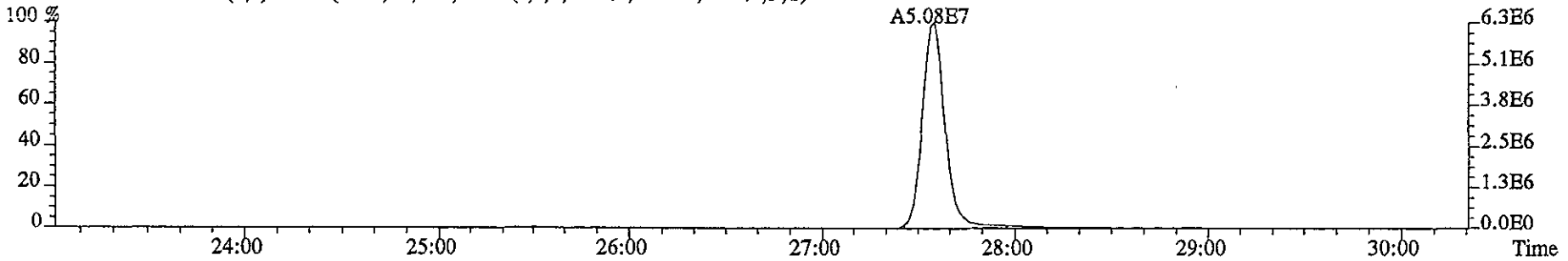
357.8516 S:29 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1956.0,1.00%,F,T)



367.8949 S:29 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5452.0,1.00%,F,T)

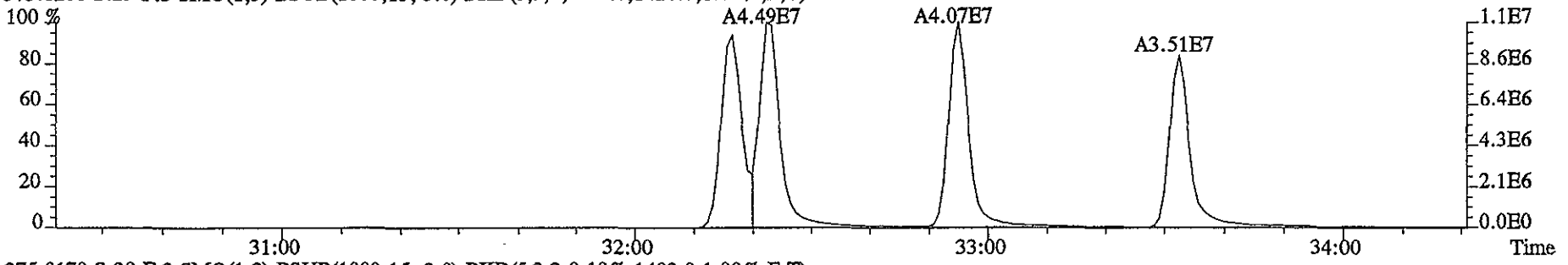


369.8919 S:29 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2692.0,1.00%,F,T)

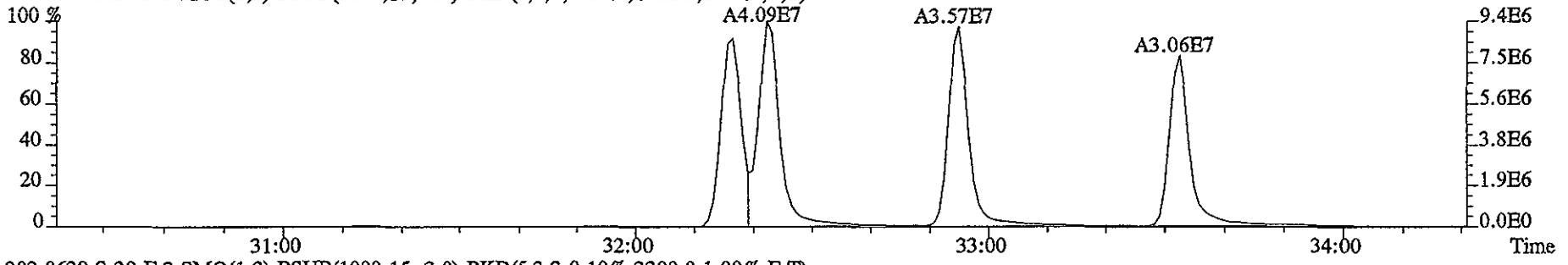


File:07DE104D5 #1-287 Acq: 8-DEC-2010 07:26:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#29 Text:ST1207C :CS3 10DXN461 Exp:DIOXINRES

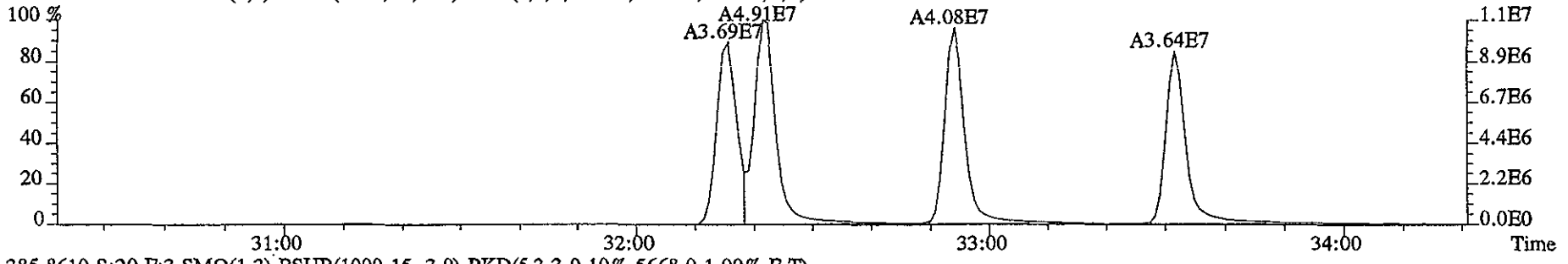
373.8208 S:29 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1428.0,1.00%,F,T)



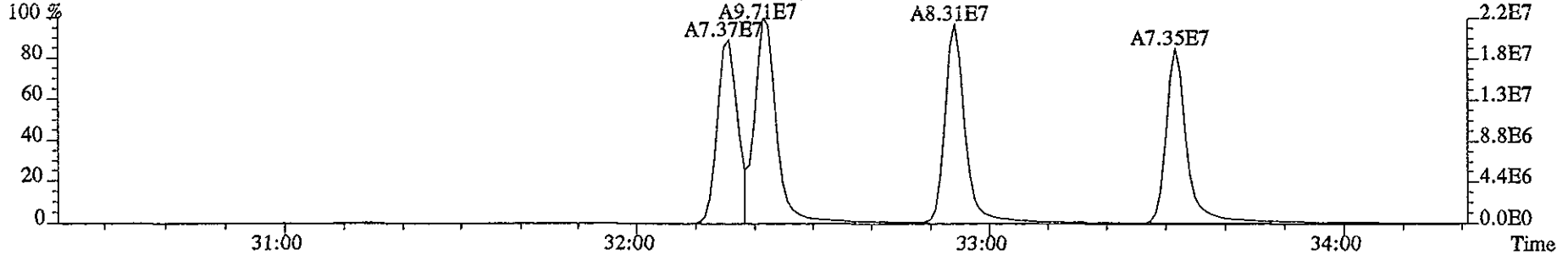
375.8178 S:29 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1492.0,1.00%,F,T)



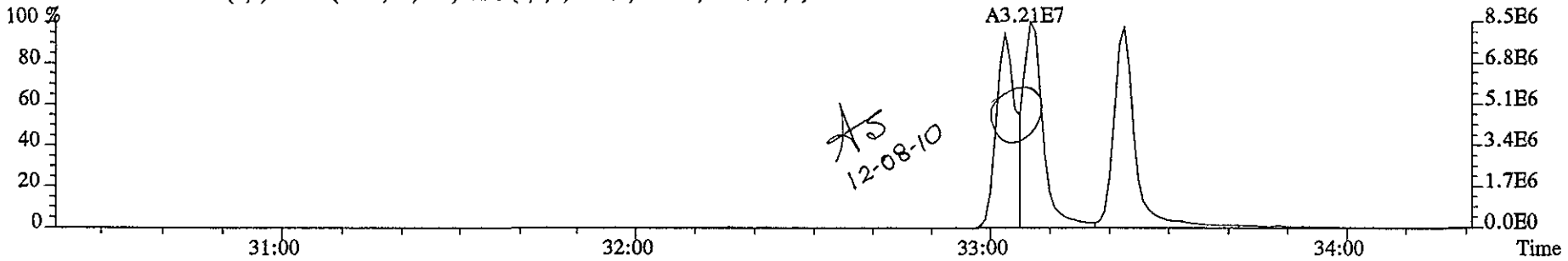
383.8639 S:29 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3200.0,1.00%,F,T)



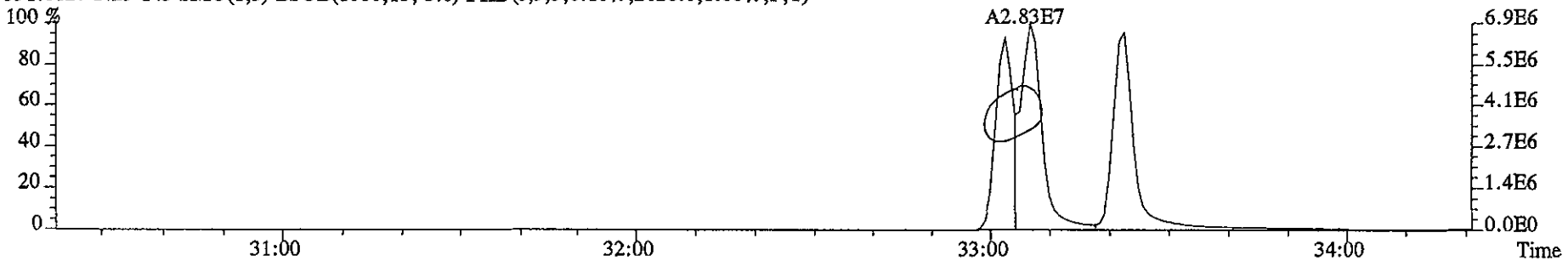
385.8610 S:29 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5668.0,1.00%,F,T)



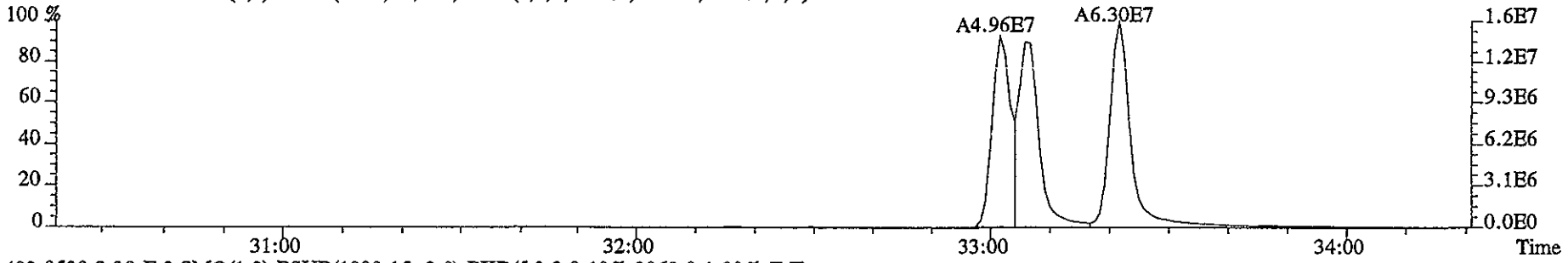
File:07DE104D5 #1-287 Acq: 8-DEC-2010 07:26:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#29 Text:ST1207C :CS3 10DXN461 Exp:DIOXINRES
389.8157 S:29 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1240.0,1.00%,F,T)



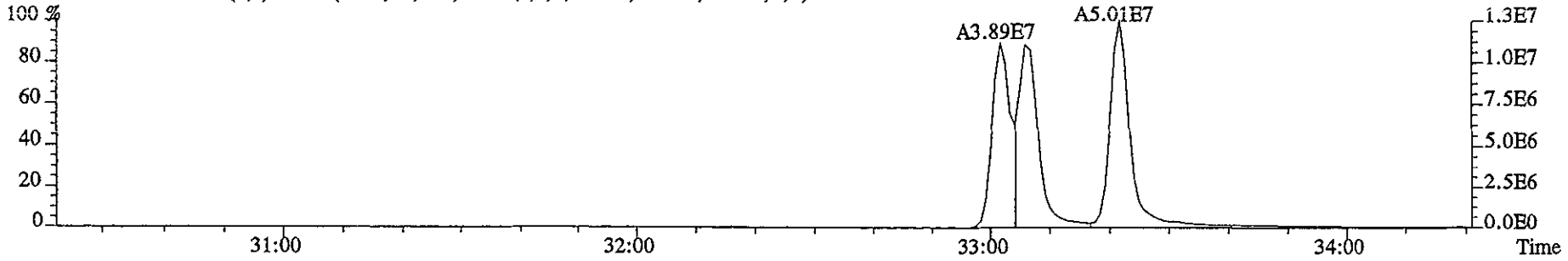
391.8127 S:29 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2628.0,1.00%,F,T)



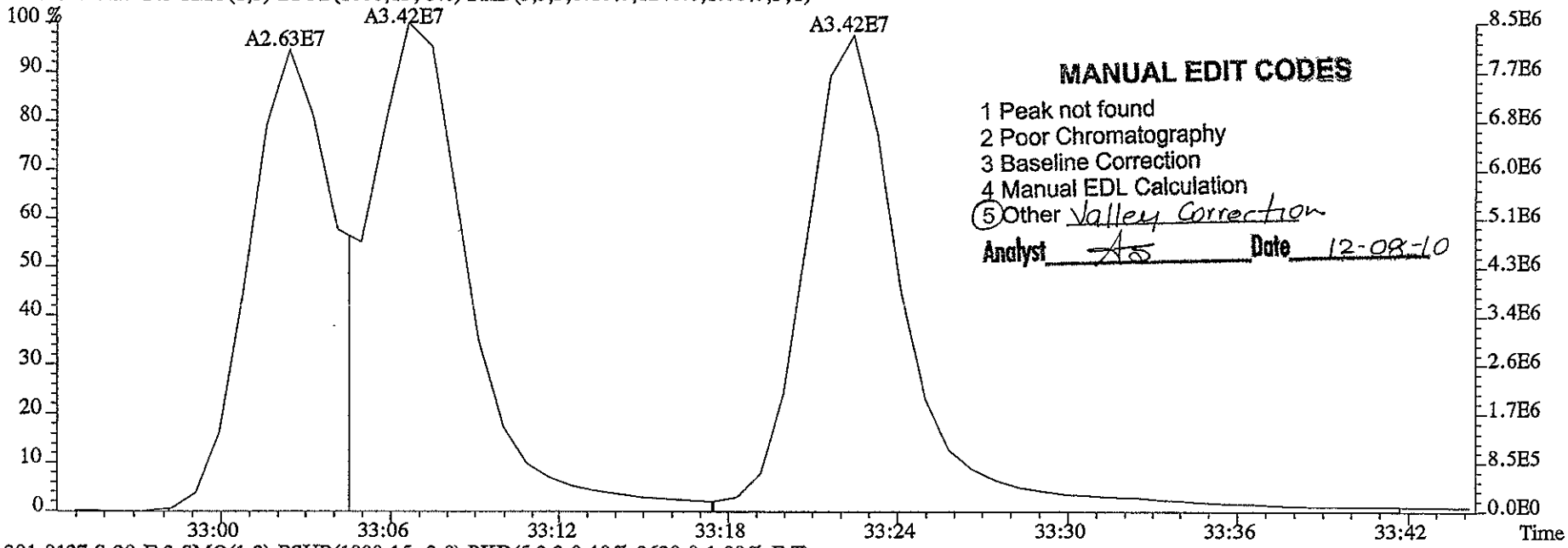
401.8559 S:29 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2560.0,1.00%,F,T)



403.8529 S:29 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3068.0,1.00%,F,T)



File:07DE104D5 #1-287 Acq: 8-DEC-2010 07:26:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#29 Text:ST1207C :CS3 10DXN461 Exp:DIOXINRES
389.8157 S:29 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1240.0,1.00%,F,T)

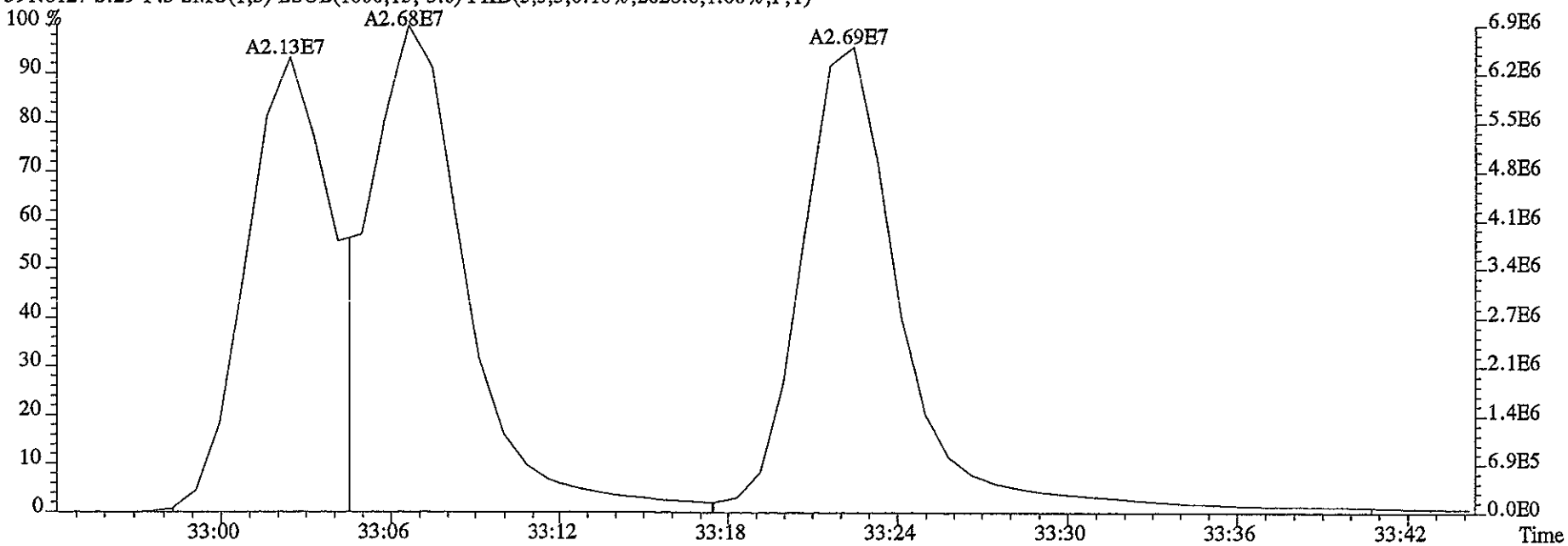


MANUAL EDIT CODES

1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
(5) Other Valley Correction

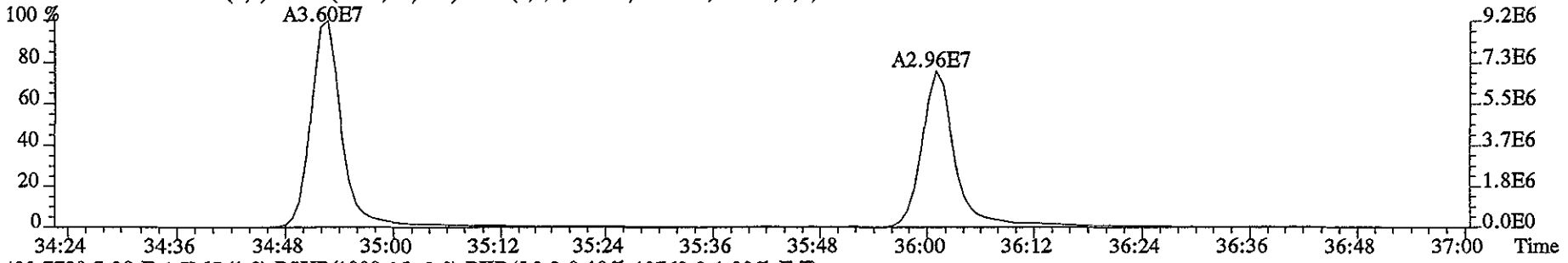
Analyst AS Date 12-08-10

391.8127 S:29 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2628.0,1.00%,F,T)

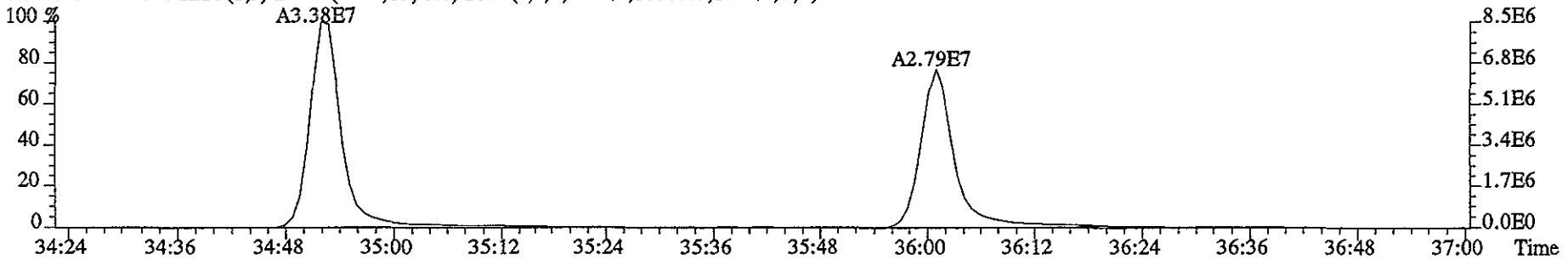


File:07DE104D5 #1-200 Acq: 8-DEC-2010 07:26:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#29 Text:ST1207C :CS3 10DXN461 Exp:DIOXINRES

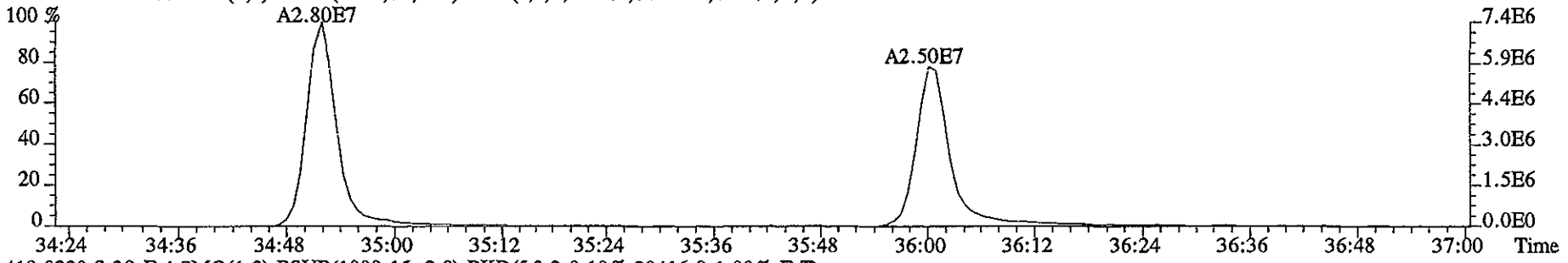
407.7818 S:29 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18748.0,1.00%,F,T)



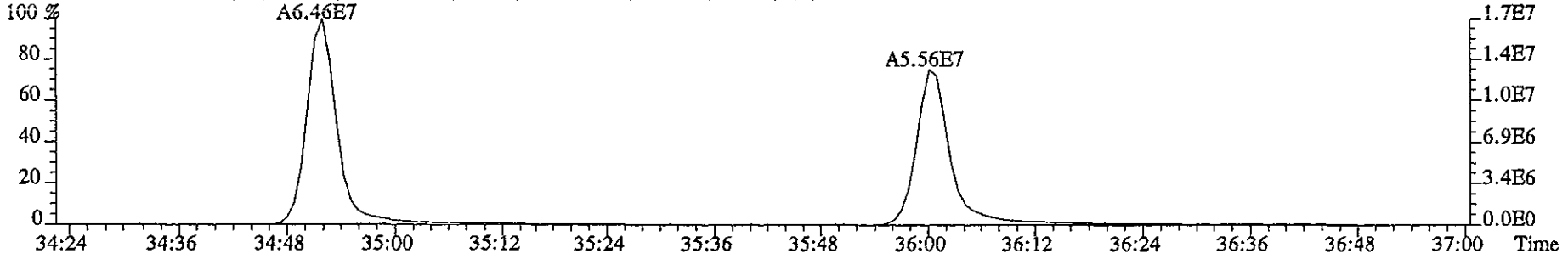
409.7789 S:29 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10768.0,1.00%,F,T)



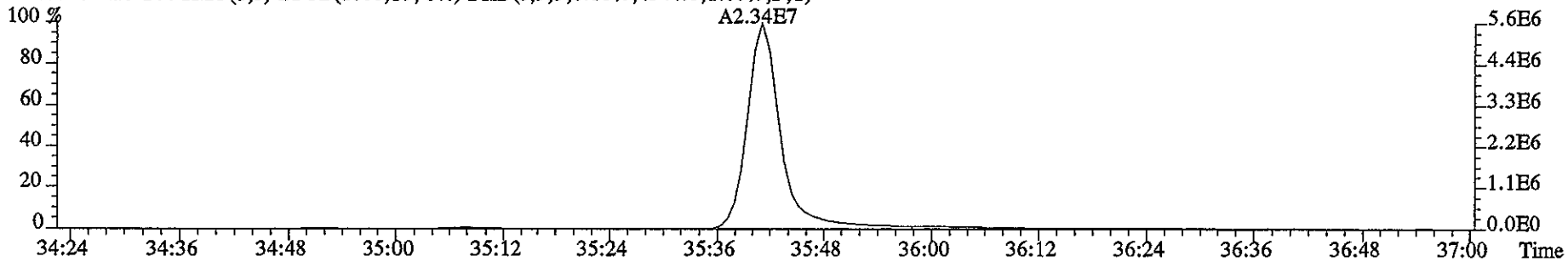
417.8253 S:29 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14440.0,1.00%,F,T)



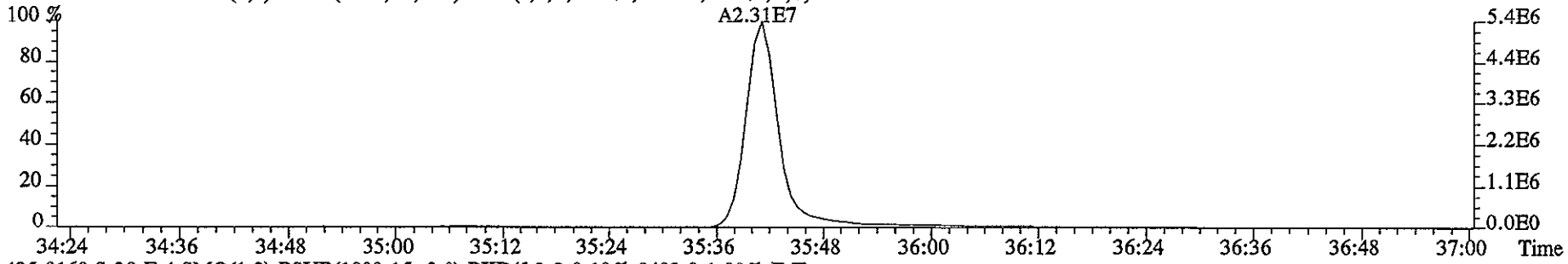
419.8220 S:29 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,30416.0,1.00%,F,T)



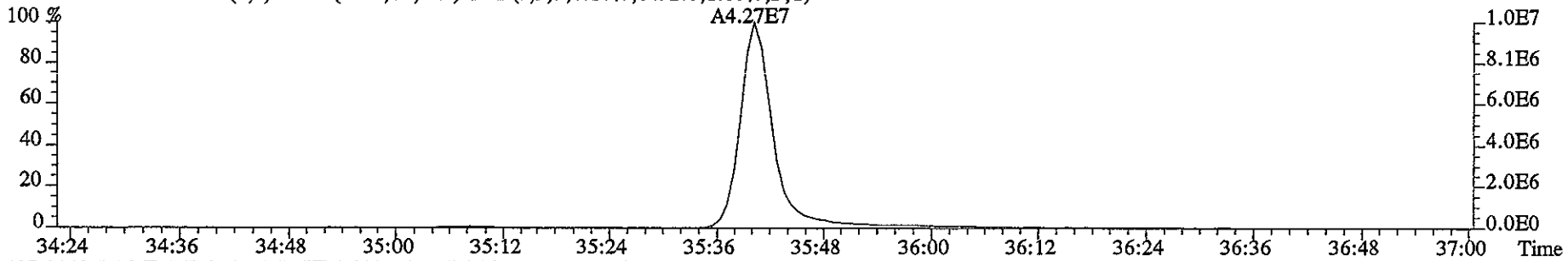
File:07DE104D5 #1-200 Acq: 8-DEC-2010 07:26:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#29 Text:ST1207C :CS3 10DXN461 Exp:DIOXINRES
423.7766 S:29 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4344.0,1.00%,F,T)



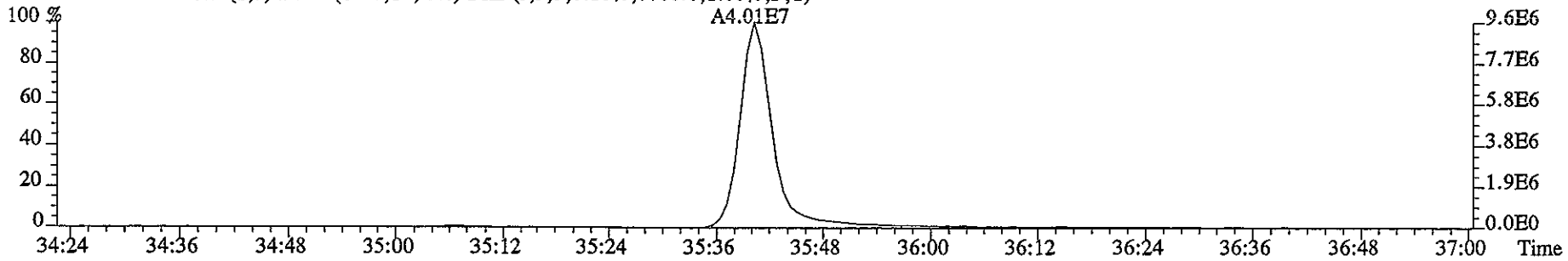
425.7737 S:29 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5260.0,1.00%,F,T)



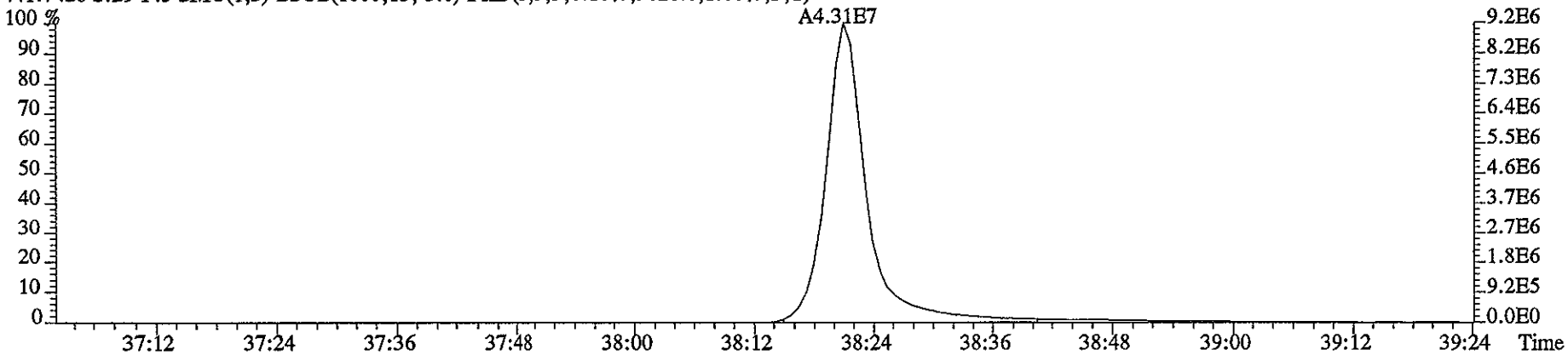
435.8169 S:29 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8492.0,1.00%,F,T)



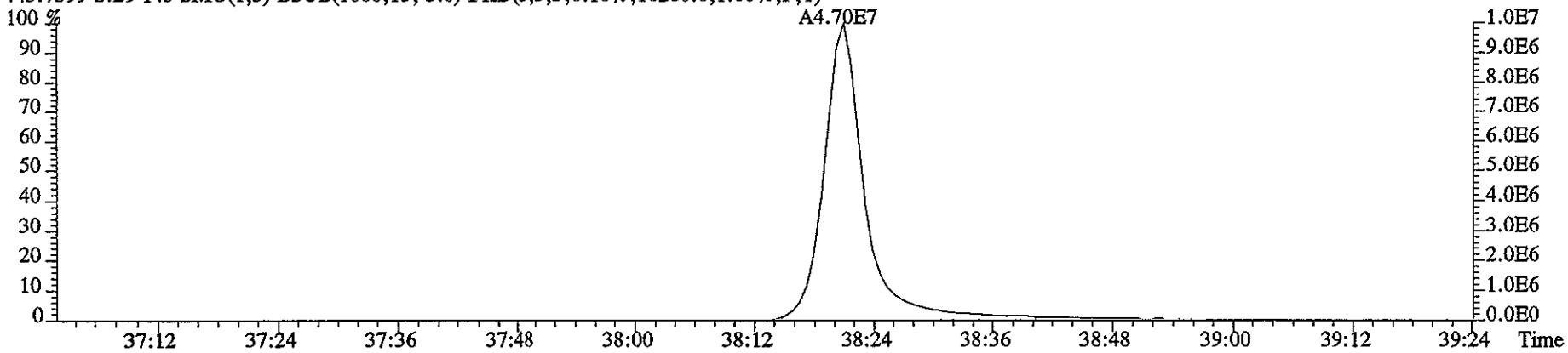
437.8140 S:29 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7700.0,1.00%,F,T)



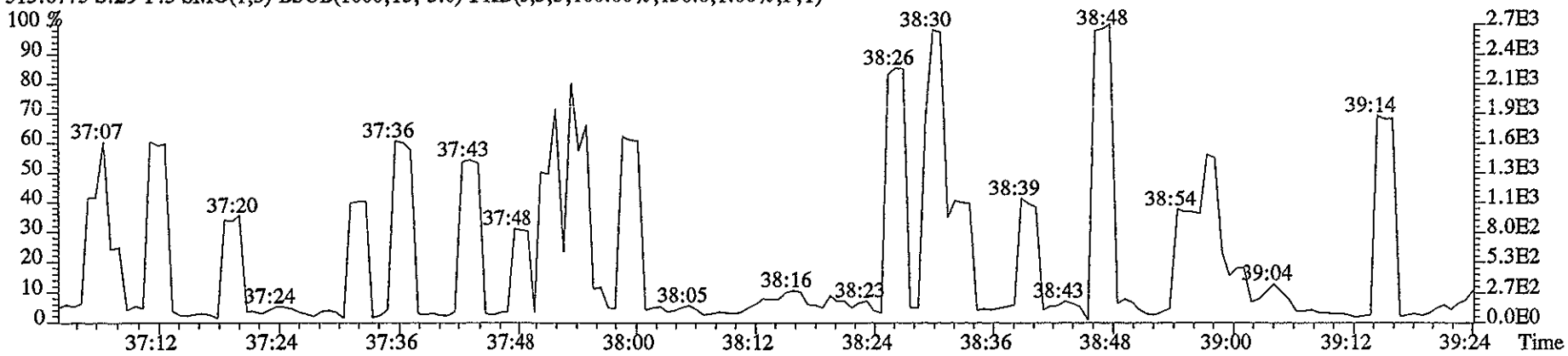
File:07DE104D5 #1-192 Acq: 8-DEC-2010 07:26:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#29 Text:ST1207C :CS3 10DXN461 Exp:DIOXINRES
441.7428 S:29 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9620.0,1.00%,F,T)



443.7399 S:29 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10280.0,1.00%,F,T)

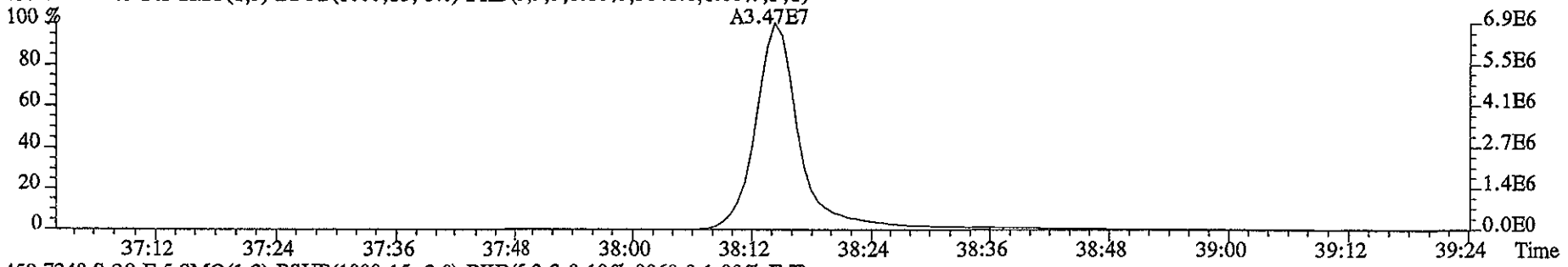


513.6775 S:29 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,136.0,1.00%,F,T)

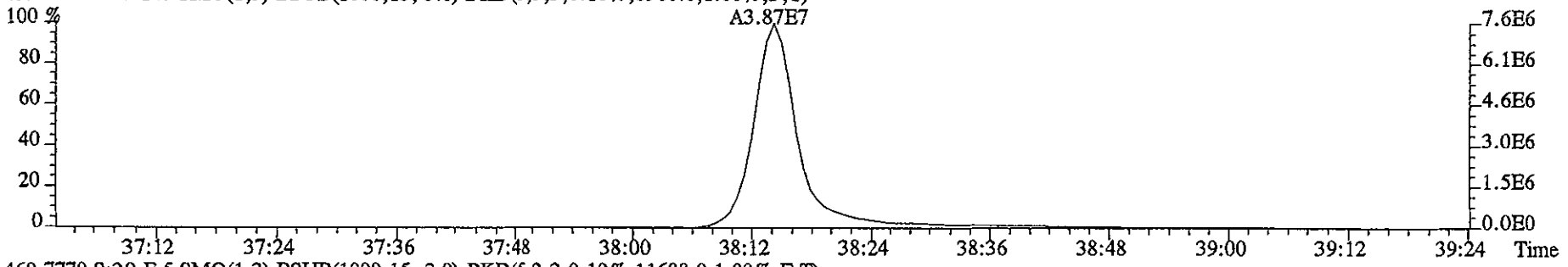


File:07DE104D5 #1-192 Acq: 8-DEC-2010 07:26:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#29 Text:ST1207C :CS3 10DXN461 Exp:DIOXINRES

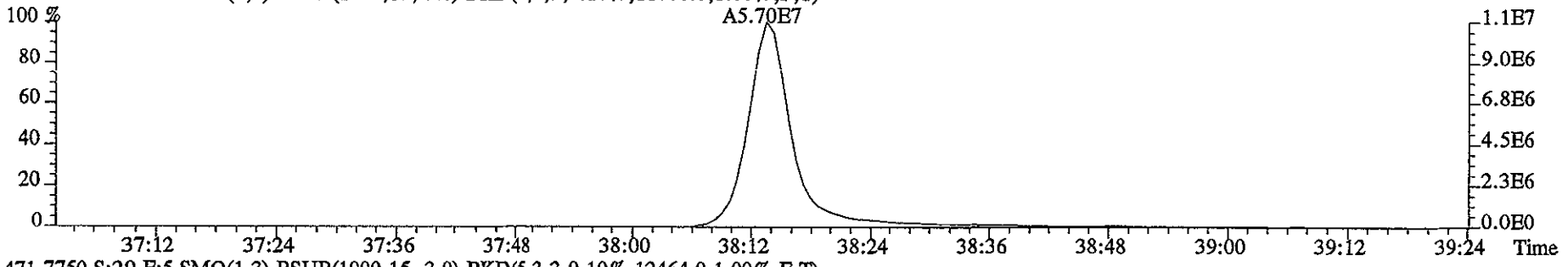
457.7377 S:29 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5848.0,1.00%,F,T)



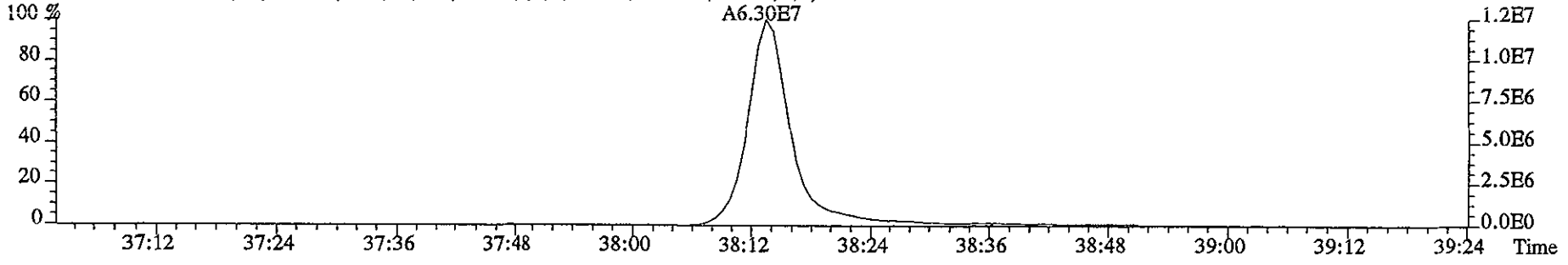
459.7348 S:29 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8960.0,1.00%,F,T)



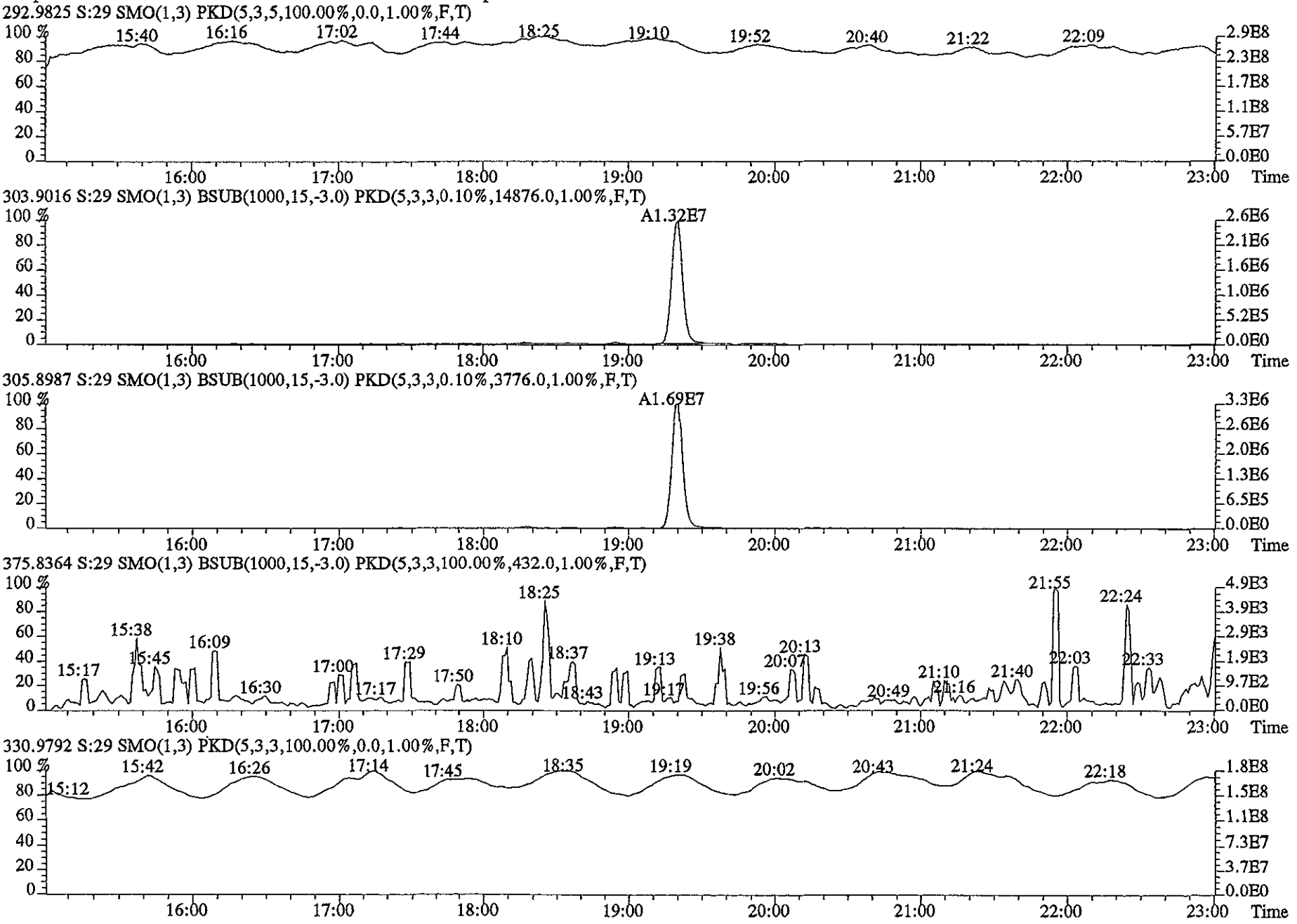
469.7779 S:29 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11688.0,1.00%,F,T)



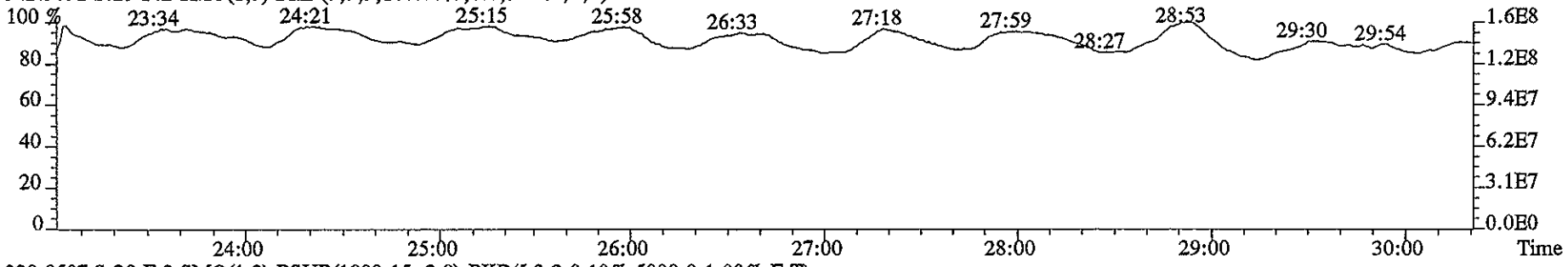
471.7750 S:29 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12464.0,1.00%,F,T)

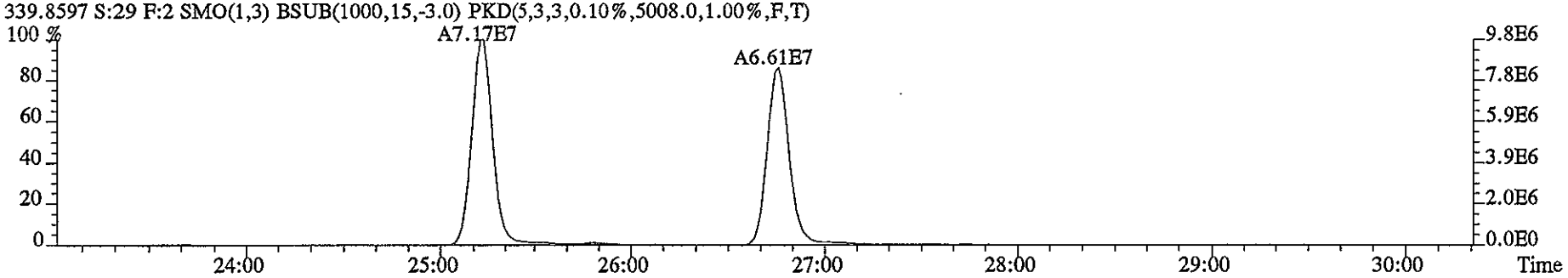


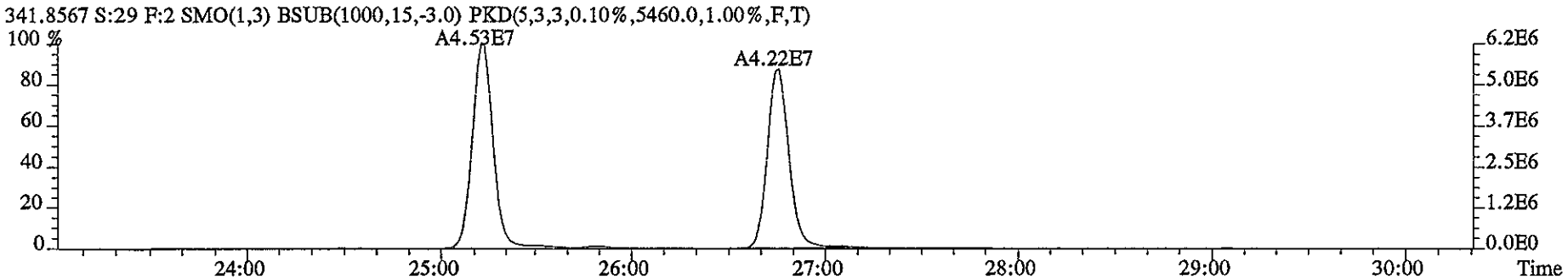
File:07DE104D5 #1-530 Acq: 8-DEC-2010 07:26:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#29 Text:ST1207C :CS3 10DXN461 Exp:DIOXINRES

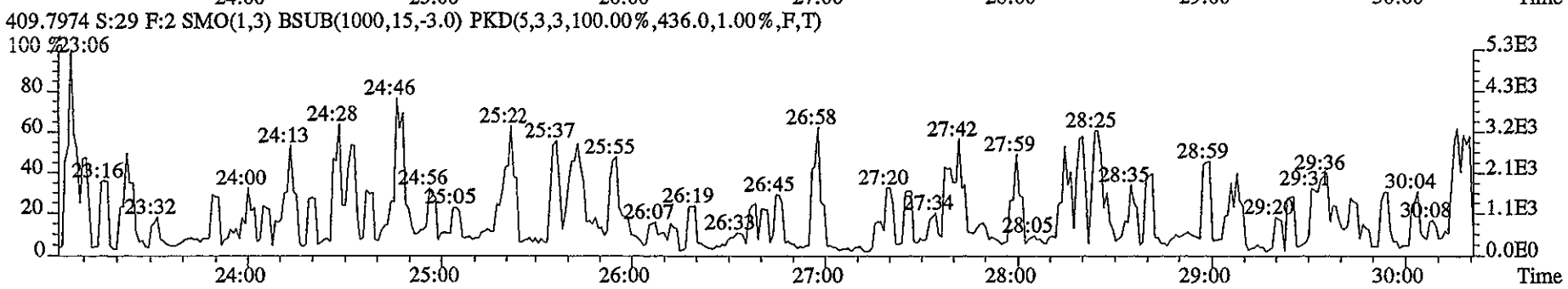


File:07DE104D5 #1-470 Acq: 8-DEC-2010 07:26:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#29 Text:ST1207C :CS3 10DXN461 Exp:DIOXINRES

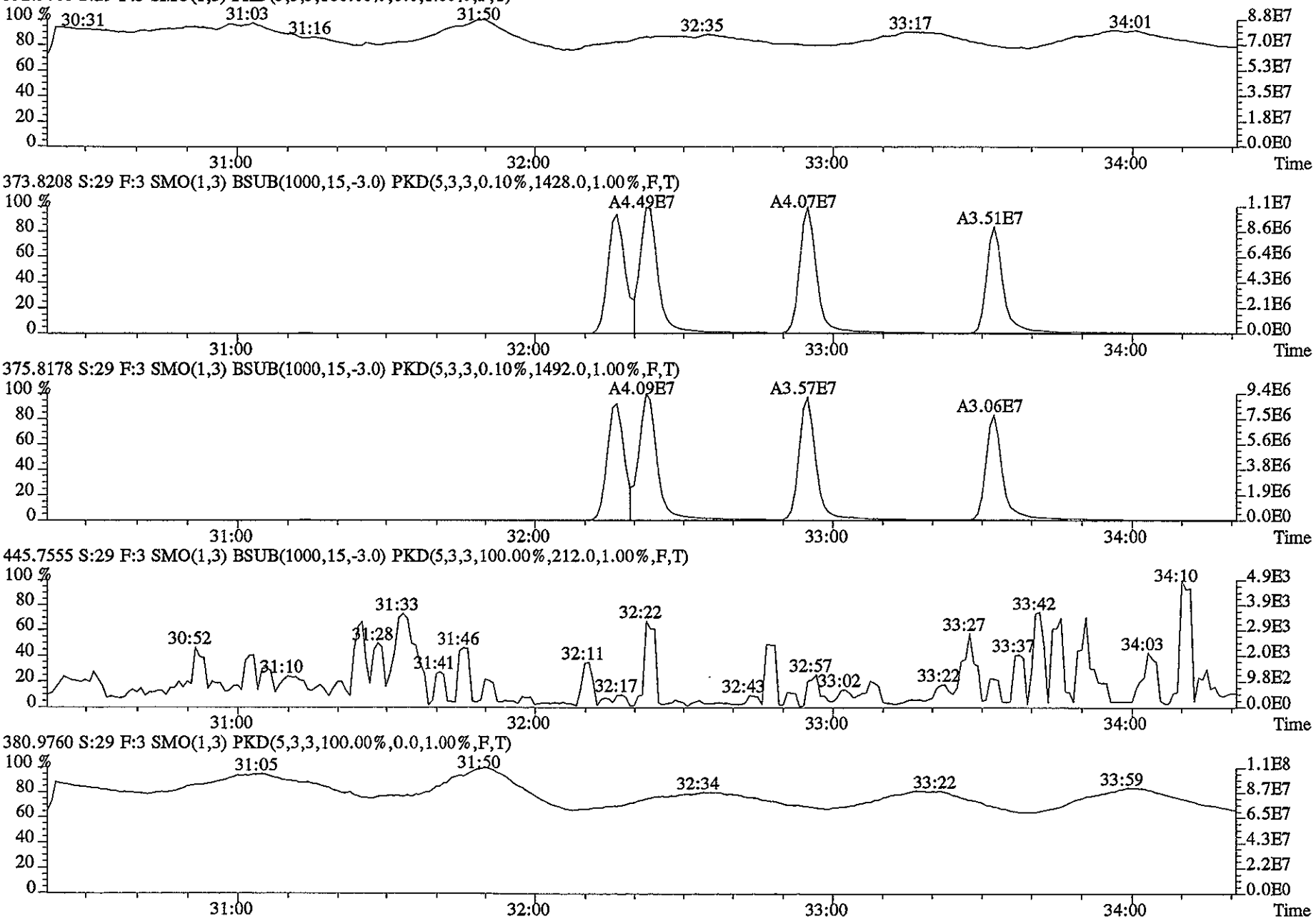




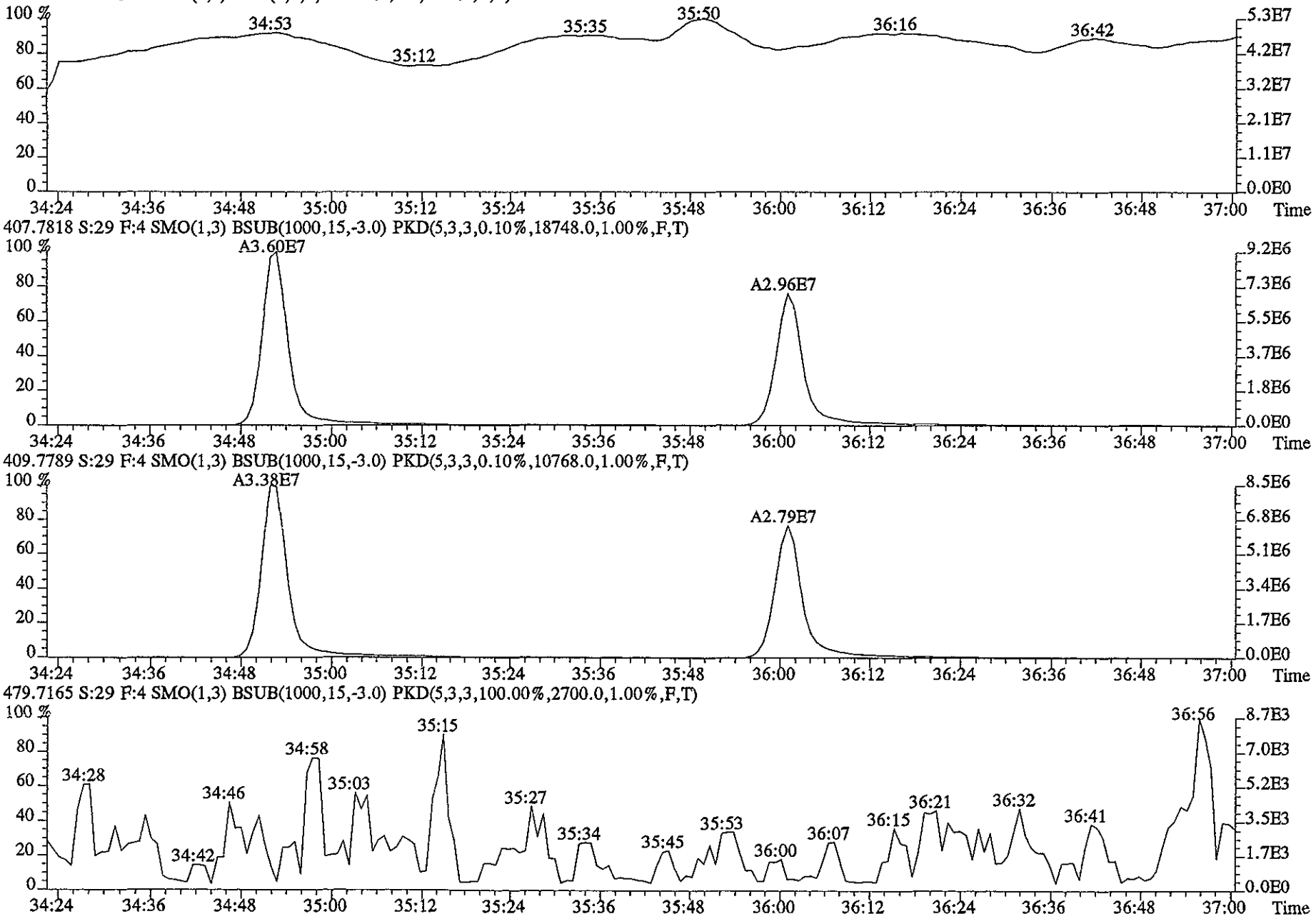




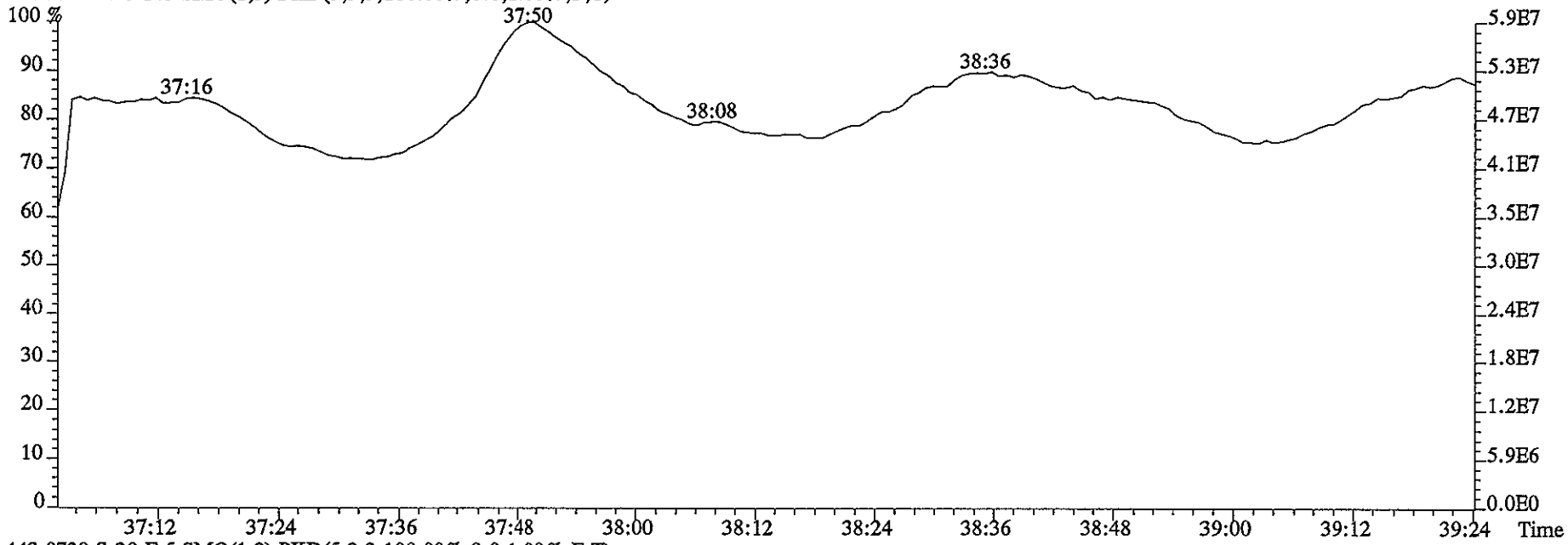
File:07DE104D5 #1-287 Acq: 8-DEC-2010 07:26:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#29 Text:ST1207C :CS3 10DXN461 Exp:DIOXINRES



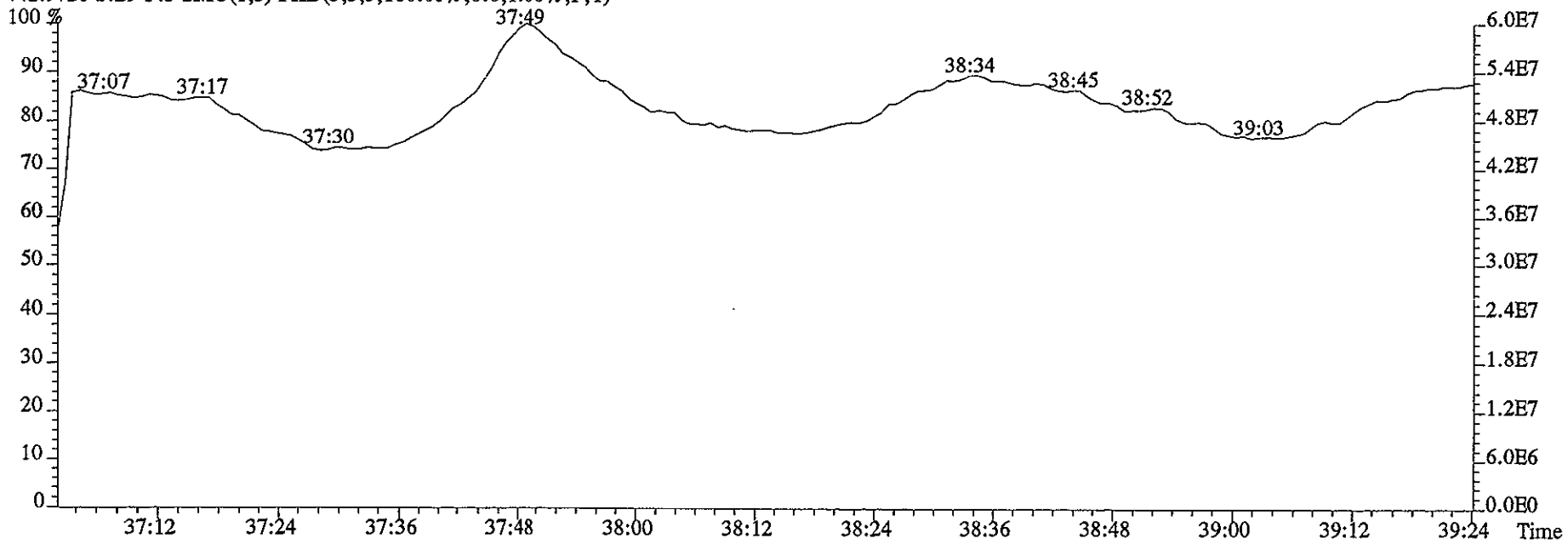
File:07DE104D5 #1-200 Acq: 8-DEC-2010 07:26:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#29 Text:ST1207C :CS3 10DXN461 Exp:DIOXINRES



File:07DE104D5 #1-192 Acq: 8-DEC-2010 07:26:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#29 Text:ST1207C :CS3 10DXN461 Exp:DIOXINRES
454.9728 S:29 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:29 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

Test America – West Sacramento

Initial Calibration Checklist
Dioxin Methods

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ICAL ID 8290,1613,0023A,23,TO9,Tetras 072110A-D5

Method ID 8290,1613,0023A,23,TO9,Tetras 8290A Date Scanned _____

Column ID DB5 Instrument ID 4-D5

STD ID's STO721A → STO721E STD Solution (10 DxN) 334,336,337,339,342

GC Program OCDD Multiplier Setting 4-10 KV

Analyzed By kss Date Analyzed 07-21-10

Prepared By kss Date Prepared 07-22-10

Reviewed By JRB Date Reviewed 7/22/10

ANALYSIS CRITERIA	INITIATED	REVIEWED
Curve summary present?	✓	✓
Hardcopies of chromatograms for CS1-CS5 present?	✓	✓
Copy of log-file present?	✓	✓
Static resolution check present?	✓	✓
Target file RT's correct?	✓	✓
%RSD within method-specified limits?*	✓	✓
Signal-to-noise criteria met?	✓	✓
Isotopic ratios within limits?	✓	✓
High point free of saturation?	✓	✓
Are chromatographic windows correct?	✓	✓
Manual reintegration's checked and hardcopies included?	✓	✓

COMMENTS:

*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: TO90721104D5

ST0721A :CS-1 10DXN342 ST0721B :CS-2 10DXN334 ST0721C :CS-3 10DXN336
ST0721D :CS-5 10DXN339 ST0721E :CS-4 10DXN337

				21JL10A4D521JL10A4D521JL10A4D521JL10A4D521JL10A4D5				
				S4	S5	S6	S7	S8
Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.229	0.154	12.5 %	1.30	1.31	1.39	1.03	1.11
2,3,7,8-TCDF	0.995	0.037	3.68 %	1.03	0.96	0.98	0.97	1.03
Total TCDF	0.995	0.037	3.68 %	1.03	0.96	0.98	0.97	1.03
13C-2,3,7,8-TCDD	0.905	0.029	3.25 %	0.92	0.92	0.94	0.88	0.87
2,3,7,8-TCDD	0.983	0.032	3.24 %	0.98	0.94	0.97	1.01	1.02
Total TCDD	0.983	0.032	3.24 %	0.98	0.94	0.97	1.01	1.02
37Cl-2,3,7,8-TCDD	1.326	0.015	1.12 %	1.33	1.31	1.32	1.35	1.32
13C-1,2,3,7,8-PeCDF	0.876	0.018	2.08 %	0.86	0.90	0.86	0.89	0.87
1,2,3,7,8-PeCDF	1.077	0.042	3.92 %	1.03	1.04	1.08	1.11	1.12
2,3,4,7,8-PeCDF	1.046	0.040	3.80 %	1.00	1.02	1.08	1.04	1.09
Total F2 PeCDF	1.061	0.039	3.67 %	1.01	1.03	1.08	1.08	1.10
Total F1 PeCDF	1.061	0.039	3.67 %	1.01	1.03	1.08	1.08	1.10
13C-1,2,3,7,8-PeCDD	0.661	0.010	1.45 %	0.65	0.66	0.67	0.67	0.65
1,2,3,7,8-PeCDD	0.925	0.038	4.09 %	0.89	0.88	0.94	0.95	0.97
Total PeCDD	0.925	0.038	4.09 %	0.89	0.88	0.94	0.95	0.97
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-
13C-1,2,3,4,7,8-HxCDF	1.045	0.067	6.44 %	1.03	1.15	0.98	1.00	1.07
1,2,3,4,7,8-HxCDF	1.217	0.012	1.02 %	1.21	1.20	1.22	1.22	1.23
1,2,3,6,7,8-HxCDF	1.282	0.089	6.95 %	1.19	1.22	1.41	1.33	1.26
2,3,4,6,7,8-HxCDF	1.233	0.080	6.49 %	1.19	1.15	1.35	1.27	1.21
1,2,3,7,8,9-HxCDF	1.098	0.096	8.73 %	1.08	0.99	1.25	1.10	1.06
Total HxCDF	1.208	0.066	5.43 %	1.17	1.14	1.31	1.23	1.19
13C-1,2,3,6,7,8-HxCDD	0.831	0.055	6.68 %	0.84	0.83	0.92	0.77	0.79
1,2,3,4,7,8-HxCDD	1.037	0.122	11.8 %	0.90	0.99	0.97	1.17	1.16

1,2,3,6,7,8-HxCDD	1.163	0.060	5.18 %	1.14	1.23	1.10	1.12	1.23
1,2,3,7,8,9-HxCDD	1.182	0.057	4.86 %	1.15	1.16	1.12	1.25	1.24
Total HxCDD	1.127	0.067	5.93 %	1.06	1.12	1.06	1.18	1.21
13C-1,2,3,4,6,7,8-HpCDF	0.910	0.051	5.65 %	0.99	0.91	0.92	0.87	0.86
1,2,3,4,6,7,8-HpCDF	1.346	0.027	1.99 %	1.31	1.34	1.35	1.35	1.38
1,2,3,4,7,8,9-HpCDF	1.093	0.049	4.49 %	1.01	1.09	1.11	1.13	1.13
Total HpCDF	1.220	0.037	3.05 %	1.16	1.21	1.23	1.24	1.26
13C-1,2,3,4,6,7,8-HpCDD	0.827	0.049	5.98 %	0.89	0.85	0.83	0.76	0.79
1,2,3,4,6,7,8-HpCDD	1.072	0.028	2.61 %	1.07	1.03	1.07	1.09	1.10
Total HpCDD	1.072	0.028	2.61 %	1.07	1.03	1.07	1.09	1.10
13C-OCDD	0.620	0.029	4.60 %	0.66	0.63	0.63	0.60	0.59
OCDF	1.370	0.027	1.98 %	1.36	1.35	1.35	1.39	1.41
OCDD	1.199	0.066	5.48 %	1.31	1.17	1.16	1.17	1.19

Run #1 Filename 21JL10A4D5 S: 4 I: 1
Acquired: 21-JUL-10 16:48:00 Processed: 22-JUL-10 12:01:10
Run: 15SE098D2 Analyte: TO9 Cal: TO90721104D5
Comments:
Sample text: ST0721A :CS-1 10DXN342

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	311991000	0.79	y	20:01	-	100.00	n
13C-2,3,7,8-TCDF	406871000	0.79	y	19:24	1.3041	100.00	n
2,3,7,8-TCDF	2100786	0.70	y	19:25	1.0327	0.50	n
Total TCDF	-	-	n	-	1.0327	0.50	n
13C-2,3,7,8-TCDD	286692000	0.78	y	20:13	0.9189	100.00	n
2,3,7,8-TCDD	1410323	0.86	y	20:14	0.9839	0.50	n
Total TCDD	-	-	n	-	0.9839	0.50	n
37Cl-2,3,7,8-TCDD	1900202	1.00	y	20:14	1.3256	0.50	n
13C-1,2,3,7,8-PeCDF	267161000	1.54	y	25:17	0.8563	100.00	n
1,2,3,7,8-PeCDF	6866350	1.58	y	25:19	1.0280	2.50	n
2,3,4,7,8-PeCDF	6654750	1.57	y	26:51	0.9964	2.50	n
Total F2 PeCDF	-	-	n	-	1.0122	5.00	n
Total F1 PeCDF	-	-	n	-	1.0122	5.00	n
13C-1,2,3,7,8-PeCDD	202489300	1.56	y	27:41	0.6490	100.00	n
1,2,3,7,8-PeCDD	4490250	1.47	y	27:43	0.8870	2.50	n
Total PeCDD	-	-	n	-	0.8870	2.50	n
13C-1,2,3,7,8,9-HxCDD	216693700	1.31	y	33:22	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	223118900	0.51	y	32:16	1.0297	100.00	n
1,2,3,4,7,8-HxCDF	6768610	1.17	y	32:17	1.2135	2.50	n
1,2,3,6,7,8-HxCDF	6624500	1.24	y	32:24	1.1876	2.50	n
2,3,4,6,7,8-HxCDF	6618550	1.19	y	32:54	1.1866	2.50	n
1,2,3,7,8,9-HxCDF	6028420	1.13	y	33:32	1.0808	2.50	n
Total HxCDF	-	-	n	-	1.1671	10.00	n
13C-1,2,3,6,7,8-HxCDD	182168900	1.32	y	33:06	0.8407	100.00	y ✓
1,2,3,4,7,8-HxCDD	4087150	1.18	y	33:03	0.8974	2.50	n
1,2,3,6,7,8-HxCDD	5184140	1.31	y	33:07	1.1383	2.50	n
1,2,3,7,8,9-HxCDD	5222820	1.27	y	33:22	1.1468	2.50	n
Total HxCDD	-	-	n	-	1.0609	7.50	n
13C-1,2,3,4,6,7,8-HpCDF	214578400	0.43	y	34:53	0.9902	100.00	n
1,2,3,4,6,7,8-HpCDF	7009400	1.06	y	34:54	1.3066	2.50	n
1,2,3,4,7,8,9-HpCDF	5421290	1.00	y	36:03	1.0106	2.50	n
Total HpCDF	-	-	n	-	1.1586	5.00	n
13C-1,2,3,4,6,7,8-HpCDD	193217400	1.03	y	35:42	0.8917	100.00	n
1,2,3,4,6,7,8-HpCDD	5159640	1.03	y	35:43	1.0682	2.50	n
Total HpCDD	-	-	n	-	1.0682	2.50	n
13C-OCDD	284075000	0.88	y	38:16	0.6555	200.00	n
OCDF	9640820	0.93	y	38:23	1.3575	5.00	n

OCDD	9336890	0.91	y	38:16	1.3147	5.00	n

Run #1 Filename 21JL10A4D5 S: 4 I: 1
Acquired: 21-JUL-10 16:48:00 Processed: 22-JUL-10 12:01:10
Run: 15SE098D2 Analyte: TO9 Cal: TO90721104D5
Comments:
Sample text: ST0721A :CS-1 10DXN342

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	311991000	0.79	y	20:01	-	100.00	n
13C-2,3,7,8-TCDF	406871000	0.79	y	19:24	1.3041	100.00	n
2,3,7,8-TCDF	2100786	0.70	y	19:25	1.0327	0.50	n
Total TCDF	-	-	n	-	1.0327	0.50	n
13C-2,3,7,8-TCDD	286692000	0.78	y	20:13	0.9189	100.00	n
2,3,7,8-TCDD	1410323	0.86	y	20:14	0.9839	0.50	n
Total TCDD	-	-	n	-	0.9839	0.50	n
37Cl-2,3,7,8-TCDD	1900202	1.00	y	20:14	1.3256	0.50	n
13C-1,2,3,7,8-PeCDF	267161000	1.54	y	25:17	0.8563	100.00	n
1,2,3,7,8-PeCDF	6866350	1.58	y	25:19	1.0280	2.50	n
2,3,4,7,8-PeCDF	6654750	1.57	y	26:51	0.9964	2.50	n
Total F2 PeCDF	-	-	n	-	1.0122	5.00	n
Total F1 PeCDF	-	-	n	-	1.0122	5.00	n
13C-1,2,3,7,8-PeCDD	202489300	1.56	y	27:41	0.6490	100.00	n
1,2,3,7,8-PeCDD	4490250	1.47	y	27:43	0.8870	2.50	n
Total PeCDD	-	-	n	-	0.8870	2.50	n
13C-1,2,3,7,8,9-HxCDD	216693700	1.31	y	33:22	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	223118900	0.51	y	32:16	1.0297	100.00	n
1,2,3,4,7,8-HxCDF	6768610	1.17	y	32:17	1.2135	2.50	n
1,2,3,6,7,8-HxCDF	6624500	1.24	y	32:24	1.1876	2.50	n
2,3,4,6,7,8-HxCDF	6618550	1.19	y	32:54	1.1866	2.50	n
1,2,3,7,8,9-HxCDF	6028420	1.13	y	33:32	1.0808	2.50	n
Total HxCDF	-	-	n	-	1.1671	10.00	n
13C-1,2,3,6,7,8-HxCDD	183007300	1.15	y	33:06	0.8445	100.00	n
1,2,3,4,7,8-HxCDD	4087150	1.18	y	33:03	0.8933	2.50	n
1,2,3,6,7,8-HxCDD	5184140	1.31	y	33:07	1.1331	2.50	n
1,2,3,7,8,9-HxCDD	5222820	1.27	y	33:22	1.1416	2.50	n
Total HxCDD	-	-	n	-	1.0560	7.50	n
13C-1,2,3,4,6,7,8-HpCDF	214578400	0.43	y	34:53	0.9902	100.00	n
1,2,3,4,6,7,8-HpCDF	7009400	1.06	y	34:54	1.3066	2.50	n
1,2,3,4,7,8,9-HpCDF	5421290	1.00	y	36:03	1.0106	2.50	n
Total HpCDF	-	-	n	-	1.1586	5.00	n
13C-1,2,3,4,6,7,8-HpCDD	193217400	1.03	y	35:42	0.8917	100.00	n
1,2,3,4,6,7,8-HpCDD	5159640	1.03	y	35:43	1.0682	2.50	n
Total HpCDD	-	-	n	-	1.0682	2.50	n
13C-OCDD	284075000	0.88	y	38:16	0.6555	200.00	n
OCDF	9640820	0.93	y	38:23	1.3575	5.00	n

OCDD	9336890	0.91	y	38:16	1.3147	5.00	n

Run #2 Filename 21JL10A4D5 S: 5 I: 1
Acquired: 21-JUL-10 17:33:53 Processed: 22-JUL-10 12:01:11
Run: 15SE098D2 Analyte: TO9 Cal: TO90721104D5
Comments:
Sample text: ST0721B :CS-2 10DXN334

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	346133000	0.79	y	20:01	-	100.00	n
13C-2,3,7,8-TCDF	454963000	0.79	y	19:25	1.3144	100.00	n
2,3,7,8-TCDF	8692490	0.78	y	19:26	0.9553	2.00	n
Total TCDF	-	-	n	-	0.9553	2.00	n
13C-2,3,7,8-TCDD	317456000	0.78	y	20:14	0.9172	100.00	n
2,3,7,8-TCDD	5958260	0.78	y	20:15	0.9384	2.00	n
Total TCDD	-	-	n	-	0.9384	2.00	n
37Cl-2,3,7,8-TCDD	8349040	1.00	y	20:15	1.3150	2.00	n
13C-1,2,3,7,8-PeCDF	311858000	1.53	y	25:17	0.9010	100.00	n
1,2,3,7,8-PeCDF	32375300	1.57	y	25:19	1.0381	10.00	n
2,3,4,7,8-PeCDF	31788800	1.54	y	26:52	1.0193	10.00	n
Total F2 PeCDF	-	-	n	-	1.0287	20.00	n
Total F1 PeCDF	-	-	n	-	1.0287	20.00	n
13C-1,2,3,7,8-PeCDD	228833100	1.55	y	27:41	0.6611	100.00	n
1,2,3,7,8-PeCDD	20211030	1.54	y	27:42	0.8832	10.00	n
Total PeCDD	-	-	n	-	0.8832	10.00	n
13C-1,2,3,7,8,9-HxCDD	250231000	1.31	y	33:22	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	286839800	0.51	y	32:16	1.1463	100.00	n
1,2,3,4,7,8-HxCDF	34391700	1.17	y	32:17	1.1990	10.00	n
1,2,3,6,7,8-HxCDF	34994300	1.19	y	32:24	1.2200	10.00	n
2,3,4,6,7,8-HxCDF	32979800	1.17	y	32:55	1.1498	10.00	n
1,2,3,7,8,9-HxCDF	28460200	1.20	y	33:33	0.9922	10.00	n
Total HxCDF	-	-	n	-	1.1402	40.00	n
13C-1,2,3,6,7,8-HxCDD	207728500	1.31	y	33:06	0.8301	100.00	n
1,2,3,4,7,8-HxCDD	20528920	1.23	y	33:03	0.9883	10.00	n
1,2,3,6,7,8-HxCDD	25476800	1.29	y	33:07	1.2264	10.00	n
1,2,3,7,8,9-HxCDD	24026200	1.28	y	33:23	1.1566	10.00	n
Total HxCDD	-	-	n	-	1.1238	30.00	n
13C-1,2,3,4,6,7,8-HpCDF	227576800	0.43	y	34:53	0.9095	100.00	n
1,2,3,4,6,7,8-HpCDF	30499500	1.03	y	34:54	1.3402	10.00	n
1,2,3,4,7,8,9-HpCDF	24758800	1.01	y	36:03	1.0879	10.00	n
Total HpCDF	-	-	n	-	1.2141	20.00	n
13C-1,2,3,4,6,7,8-HpCDD	212760000	1.04	y	35:42	0.8503	100.00	n
1,2,3,4,6,7,8-HpCDD	21862400	1.02	y	35:43	1.0276	10.00	n
Total HpCDD	-	-	n	-	1.0276	10.00	n
13C-OCDD	316775000	0.88	y	38:16	0.6330	200.00	n
OCDF	42624800	0.89	y	38:23	1.3456	20.00	n
OCDD	37017600	0.89	y	38:17	1.1686	20.00	n

Run #3 Filename 21JL10A4D5 S: 6 I: 1
Acquired: 21-JUL-10 18:18:56 Processed: 22-JUL-10 12:01:11
Run: 15SE098D2 Analyte: TO9 Cal: TO90721104D5
Comments:
Sample text: ST0721C :CS-3 10DXN336

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	297616000	0.80	y	20:00	-	100.00	n
13C-2,3,7,8-TCDF	414416000	0.80	y	19:23	1.3925	100.00	n
2,3,7,8-TCDF	40815800	0.78	y	19:25	0.9849	10.00	n
Total TCDF	-	-	n	-	0.9849	10.00	n
13C-2,3,7,8-TCDD	279542000	0.79	y	20:13	0.9393	100.00	n
2,3,7,8-TCDD	27062400	0.80	y	20:15	0.9681	10.00	n
Total TCDD	-	-	n	-	0.9681	10.00	n
37Cl-2,3,7,8-TCDD	36762200	1.00	y	20:14	1.3151	10.00	n
13C-1,2,3,7,8-PeCDF	256521000	1.55	y	25:18	0.8619	100.00	n
1,2,3,7,8-PeCDF	138997400	1.55	y	25:20	1.0837	50.00	n
2,3,4,7,8-PeCDF	138743000	1.55	y	26:53	1.0817	50.00	n
Total F2 PeCDF	-	-	n	-	1.0827	100.00	n
Total F1 PeCDF	-	-	n	-	1.0827	100.00	n
13C-1,2,3,7,8-PeCDD	199400100	1.58	y	27:43	0.6700	100.00	n
1,2,3,7,8-PeCDD	93821800	1.53	y	27:44	0.9410	50.00	n
Total PeCDD	-	-	n	-	0.9410	50.00	n
13C-1,2,3,7,8,9-HxCDD	211830200	1.30	y	33:22	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	206662600	0.51	y	32:17	0.9756	100.00	n
1,2,3,4,7,8-HxCDF	125916200	1.16	y	32:18	1.2186	50.00	n
1,2,3,6,7,8-HxCDF	145591100	1.17	y	32:23	1.4090	50.00	n
2,3,4,6,7,8-HxCDF	139989400	1.18	y	32:55	1.3548	50.00	n
1,2,3,7,8,9-HxCDF	129462400	1.18	y	33:33	1.2529	50.00	n
Total HxCDF	-	-	n	-	1.3088	200.00	n
13C-1,2,3,6,7,8-HxCDD	194269900	1.31	y	33:07	0.9171	100.00	n
1,2,3,4,7,8-HxCDD	94117900	1.23	y	33:03	0.9689	50.00	n
1,2,3,6,7,8-HxCDD	106981800	1.27	y	33:08	1.1014	50.00	n
1,2,3,7,8,9-HxCDD	108772200	1.25	y	33:23	1.1198	50.00	n
Total HxCDD	-	-	n	-	1.0634	150.00	n
13C-1,2,3,4,6,7,8-HpCDF	194898500	0.43	y	34:53	0.9201	100.00	n
1,2,3,4,6,7,8-HpCDF	131367000	1.01	y	34:54	1.3481	50.00	n
1,2,3,4,7,8,9-HpCDF	108439900	1.02	y	36:02	1.1128	50.00	n
Total HpCDF	-	-	n	-	1.2304	100.00	n
13C-1,2,3,4,6,7,8-HpCDD	176478000	1.04	y	35:43	0.8331	100.00	n
1,2,3,4,6,7,8-HpCDD	94723500	1.02	y	35:43	1.0735	50.00	n
Total HpCDD	-	-	n	-	1.0735	50.00	n
13C-OCDD	266609000	0.89	y	38:16	0.6293	200.00	n
OCDF	179957800	0.91	y	38:23	1.3500	100.00	n
OCDD	154054800	0.90	y	38:16	1.1557	100.00	n

Run #5 Filename 21JL10A4D5 S: 8 I: 1
Acquired: 21-JUL-10 19:49:00 Processed: 22-JUL-10 12:01:13
Run: 15SE098D2 Analyte: TO9 Cal: TO90721104D5
Comments:
Sample text: ST0721E :CS-4 10DXN337

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	363554000	0.80	y	20:01	-	100.00	n
13C-2,3,7,8-TCDF	402416000	0.79	y	19:24	1.1069	100.00	n
2,3,7,8-TCDF	166293900	0.77	y	19:25	1.0331	40.00	n
Total TCDF	-	-	n	-	1.0331	40.00	n
13C-2,3,7,8-TCDD	314971000	0.80	y	20:13	0.8664	100.00	n
2,3,7,8-TCDD	127934900	0.78	y	20:15	1.0154	40.00	n
Total TCDD	-	-	n	-	1.0154	40.00	n
37Cl-2,3,7,8-TCDD	166729600	1.00	y	20:15	1.3234	40.00	n
13C-1,2,3,7,8-PeCDF	317818000	1.53	y	25:17	0.8742	100.00	n
1,2,3,7,8-PeCDF	712080000	1.54	y	25:19	1.1203	200.00	n
2,3,4,7,8-PeCDF	692103000	1.53	y	26:51	1.0888	200.00	n
Total F2 PeCDF	-	-	n	-	1.1045	400.00	n
Total F1 PeCDF	-	-	n	-	1.1045	400.00	n
13C-1,2,3,7,8-PeCDD	237598000	1.55	y	27:40	0.6535	100.00	n
1,2,3,7,8-PeCDD	458679000	1.50	y	27:43	0.9652	200.00	n
Total PeCDD	-	-	n	-	0.9652	200.00	n
13C-1,2,3,7,8,9-HxCDD	248923000	1.30	y	33:22	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	267009400	0.51	y	32:16	1.0727	100.00	n
1,2,3,4,7,8-HxCDF	658410000	1.16	y	32:17	1.2329	200.00	n
1,2,3,6,7,8-HxCDF	673142000	1.18	y	32:24	1.2605	200.00	n
2,3,4,6,7,8-HxCDF	645815000	1.17	y	32:54	1.2093	200.00	n
1,2,3,7,8,9-HxCDF	567208000	1.17	y	33:33	1.0621	200.00	n
Total HxCDF	-	-	n	-	1.1912	800.00	n
13C-1,2,3,6,7,8-HxCDD	197349200	1.31	y	33:06	0.7928	100.00	n
1,2,3,4,7,8-HxCDD	458143000	1.26	y	33:03	1.1607	200.00	y ✓
1,2,3,6,7,8-HxCDD	484675000	1.28	y	33:07	1.2280	200.00	y ✓
1,2,3,7,8,9-HxCDD	488147000	1.26	y	33:23	1.2368	200.00	n
Total HxCDD	-	-	n	-	1.2085	600.00	n
13C-1,2,3,4,6,7,8-HpCDF	214761200	0.43	y	34:53	0.8628	100.00	n
1,2,3,4,6,7,8-HpCDF	593215000	1.01	y	34:54	1.3811	200.00	n
1,2,3,4,7,8,9-HpCDF	485366000	1.01	y	36:03	1.1300	200.00	n
Total HpCDF	-	-	n	-	1.2556	400.00	n
13C-1,2,3,4,6,7,8-HpCDD	197451500	1.05	y	35:42	0.7932	100.00	n
1,2,3,4,6,7,8-HpCDD	435214000	1.03	y	35:43	1.1021	200.00	n
Total HpCDD	-	-	n	-	1.1021	200.00	n
13C-OCDD	291770000	0.90	y	38:16	0.5861	200.00	n
OCDF	820312000	0.90	y	38:23	1.4058	400.00	n

OCDD	694943000	0.90	y	38:16	1.1909	400.00	n

Run #5 Filename 21JL10A4D5 S: 8 I: 1
Acquired: 21-JUL-10 19:49:00 Processed: 22-JUL-10 12:01:13
Run: 15SE098D2 Analyte: TO9 Cal: TO90721104D5
Comments:
Sample text: ST0721E :CS-4 10DXN337

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	363554000	0.80	y	20:01	-	100.00	n
13C-2,3,7,8-TCDF	402416000	0.79	y	19:24	1.1069	100.00	n
2,3,7,8-TCDF	166293900	0.77	y	19:25	1.0331	40.00	n
Total TCDF	-	-	n	-	1.0331	40.00	n
13C-2,3,7,8-TCDD	314971000	0.80	y	20:13	0.8664	100.00	n
2,3,7,8-TCDD	127934900	0.78	y	20:15	1.0154	40.00	n
Total TCDD	-	-	n	-	1.0154	40.00	n
37Cl-2,3,7,8-TCDD	166729600	1.00	y	20:15	1.3234	40.00	n
13C-1,2,3,7,8-PeCDF	317818000	1.53	y	25:17	0.8742	100.00	n
1,2,3,7,8-PeCDF	712080000	1.54	y	25:19	1.1203	200.00	n
2,3,4,7,8-PeCDF	692103000	1.53	y	26:51	1.0888	200.00	n
Total F2 PeCDF	-	-	n	-	1.1045	400.00	n
Total F1 PeCDF	-	-	n	-	1.1045	400.00	n
13C-1,2,3,7,8-PeCDD	237598000	1.55	y	27:40	0.6535	100.00	n
1,2,3,7,8-PeCDD	458679000	1.50	y	27:43	0.9652	200.00	n
Total PeCDD	-	-	n	-	0.9652	200.00	n
13C-1,2,3,7,8,9-HxCDD	248923000	1.30	y	33:22	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	267009400	0.51	y	32:16	1.0727	100.00	n
1,2,3,4,7,8-HxCDF	658410000	1.16	y	32:17	1.2329	200.00	n
1,2,3,6,7,8-HxCDF	673142000	1.18	y	32:24	1.2605	200.00	n
2,3,4,6,7,8-HxCDF	645815000	1.17	y	32:54	1.2093	200.00	n
1,2,3,7,8,9-HxCDF	567208000	1.17	y	33:33	1.0621	200.00	n
Total HxCDF	-	-	n	-	1.1912	800.00	n
13C-1,2,3,6,7,8-HxCDD	197349200	1.31	y	33:06	0.7928	100.00	n
1,2,3,4,7,8-HxCDD	422231040	1.45	n	33:03	1.0698	200.00	n
1,2,3,6,7,8-HxCDD	481044000	1.12	y	33:07	1.2188	200.00	n
1,2,3,7,8,9-HxCDD	488146000	1.26	y	33:23	1.2368	200.00	n
Total HxCDD	-	-	n	-	1.1751	600.00	n
13C-1,2,3,4,6,7,8-HpCDF	214761200	0.43	y	34:53	0.8628	100.00	n
1,2,3,4,6,7,8-HpCDF	593215000	1.01	y	34:54	1.3811	200.00	n
1,2,3,4,7,8,9-HpCDF	485366000	1.01	y	36:03	1.1300	200.00	n
Total HpCDF	-	-	n	-	1.2556	400.00	n
13C-1,2,3,4,6,7,8-HpCDD	197451500	1.05	y	35:42	0.7932	100.00	n
1,2,3,4,6,7,8-HpCDD	435214000	1.03	y	35:43	1.1021	200.00	n
Total HpCDD	-	-	n	-	1.1021	200.00	n
13C-OCDD	291770000	0.90	y	38:16	0.5861	200.00	n
OCDF	820312000	0.90	y	38:23	1.4058	400.00	n
OCDD	694943000	0.90	y	38:16	1.1909	400.00	n

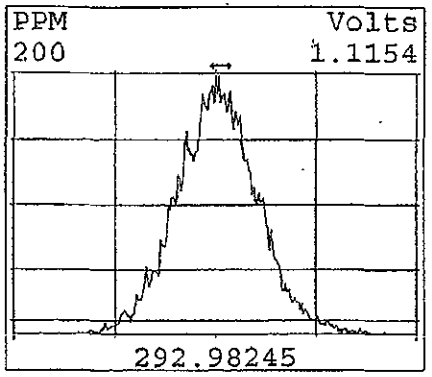
Run #4 Filename 21JL10A4D5 S: 7 I: 1
Acquired: 21-JUL-10 19:03:58 Processed: 22-JUL-10 12:01:12
Run: 15SE098D2 Analyte: TO9 Cal: TO90721104D5
Comments:
Sample text: ST0721D :CS-5 10DXN339

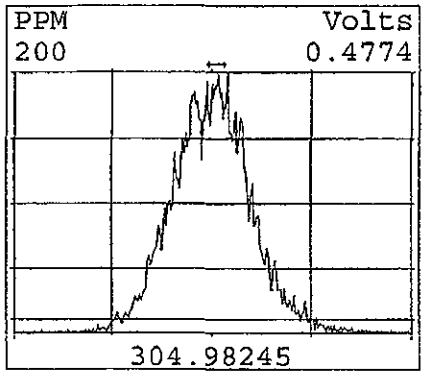
Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	350659000	0.80	y	20:02	-	100.00	n
13C-2,3,7,8-TCDF	360772000	0.79	y	19:24	1.0288	100.00	n
2,3,7,8-TCDF	697458000	0.77	y	19:25	0.9666	200.00	n
Total TCDF	-	-	n	-	0.9666	200.00	n
13C-2,3,7,8-TCDD	309835000	0.78	y	20:14	0.8836	100.00	n
2,3,7,8-TCDD	626791000	0.79	y	20:16	1.0115	200.00	n
Total TCDD	-	-	n	-	1.0115	200.00	n
37Cl-2,3,7,8-TCDD	837356000	1.00	y	20:15	1.3513	200.00	n
13C-1,2,3,7,8-PeCDF	310980000	1.54	y	25:18	0.8868	100.00	n
1,2,3,7,8-PeCDF	3461250000	1.54	y	25:20	1.1130	1000.00	n
2,3,4,7,8-PeCDF	3239400000	1.52	y	26:52	1.0417	1000.00	n
Total F2 PeCDF	-	-	n	-	1.0773	2000.00	n
Total F1 PeCDF	-	-	n	-	1.0773	2000.00	n
13C-1,2,3,7,8-PeCDD	235100700	1.56	y	27:42	0.6705	100.00	n
1,2,3,7,8-PeCDD	2235314000	1.50	y	27:44	0.9508	1000.00	n
Total PeCDD	-	-	n	-	0.9508	1000.00	n
13C-1,2,3,7,8,9-HxCDD	256316000	1.29	y	33:22	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	256243600	0.51	y	32:16	0.9997	100.00	n
1,2,3,4,7,8-HxCDF	3131920000	1.15	y	32:17	1.2222	1000.00	n
1,2,3,6,7,8-HxCDF	3410730000	1.19	y	32:24	1.3311	1000.00	n
2,3,4,6,7,8-HxCDF	3245730000	1.18	y	32:55	1.2667	1000.00	n
1,2,3,7,8,9-HxCDF	2825950000	1.18	y	33:33	1.1028	1000.00	n
Total HxCDF	-	-	n	-	1.2307	4000.00	n
13C-1,2,3,6,7,8-HxCDD	198188400	1.30	y	33:07	0.7732	100.00	n
1,2,3,4,7,8-HxCDD	2319900000	1.23	y	33:03	1.1706	1000.00	n
1,2,3,6,7,8-HxCDD	2219442000	1.26	y	33:07	1.1199	1000.00	n
1,2,3,7,8,9-HxCDD	2474590000	1.26	y	33:23	1.2486	1000.00	n
Total HxCDD	-	-	n	-	1.1797	3000.00	n
13C-1,2,3,4,6,7,8-HpCDF	222373600	0.44	y	34:54	0.8676	100.00	n
1,2,3,4,6,7,8-HpCDF	3008480000	1.01	y	34:54	1.3529	1000.00	n
1,2,3,4,7,8,9-HpCDF	2503650000	1.02	y	36:03	1.1259	1000.00	n
Total HpCDF	-	-	n	-	1.2394	2000.00	n
13C-1,2,3,4,6,7,8-HpCDD	196025300	1.04	y	35:42	0.7648	100.00	n
1,2,3,4,6,7,8-HpCDD	2131190000	1.02	y	35:43	1.0872	1000.00	n
Total HpCDD	-	-	n	-	1.0872	1000.00	n
13C-OCDD	305368000	0.90	y	38:16	0.5957	200.00	n
OCDF	4252770000	0.90	y	38:23	1.3927	2000.00	n
OCDD	3562830000	0.90	y	38:16	1.1667	2000.00	n

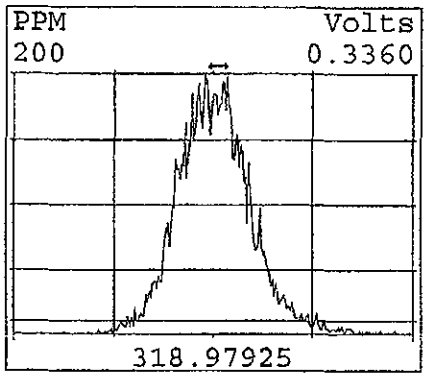
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
21JL10A4D5	1	CP0721	DB-5 CPSM 3732-08				1.00000	
21JL10A4D5	2	SB0721	Solvent Blank C-14				1.00000	
21JL10A4D5	3	ST0721	CS-0.2 10DXN333 (Not used) sensitivity ✓ only				1.00000	
21JL10A4D5	4	ST0721A	CS-1 10DXN342				1.00000	
21JL10A4D5	5	ST0721B	CS-2 10DXN334				1.00000	
21JL10A4D5	6	ST0721C	CS-3 10DXN336				1.00000	
21JL10A4D5	7	ST0721D	CS-5 10DXN339				1.00000	
21JL10A4D5	8	ST0721E	CS-4 10DXN337				1.00000	
21JL10A4D5	9	ST0721F	2nd Source 10DXN340				1.00000	
21JL10A4D5	10						1.00000	
21JL10A4D5	11						1.00000	
21JL10A4D5	12						1.00000	
21JL10A4D5	13		KSS 07-21-10				1.00000	

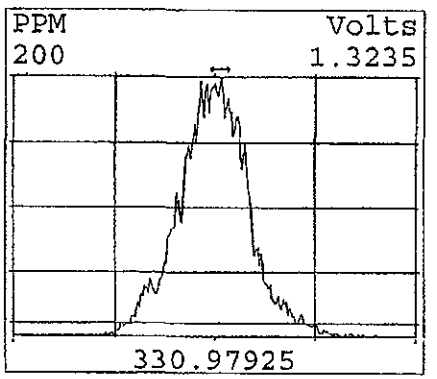
log file ✓'d
NE 7/22/10

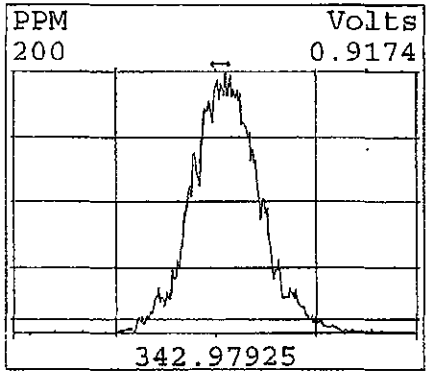
Peak Locate Examination:21-JUL-2010:14:30 File:21JL10A4D5
Experiment:DIOXINRES Function:1 Reference:PFK

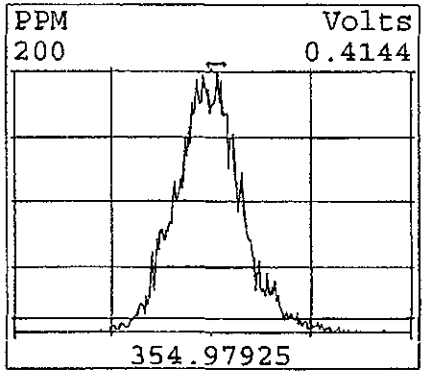


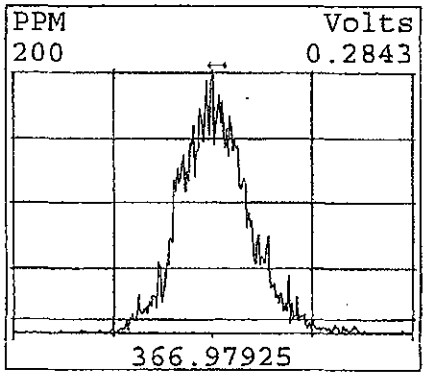


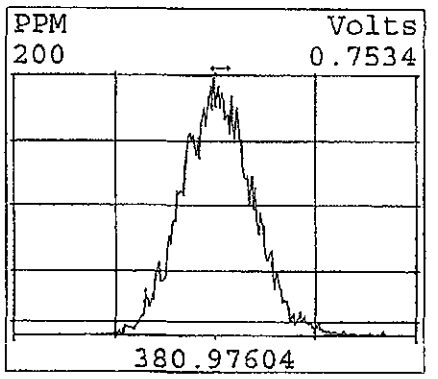


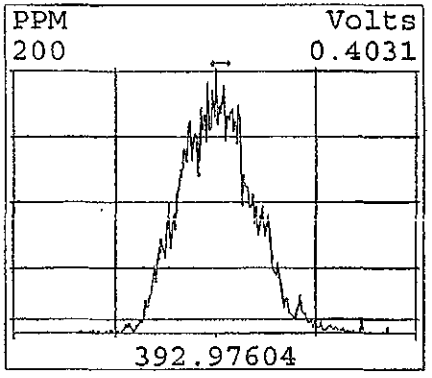


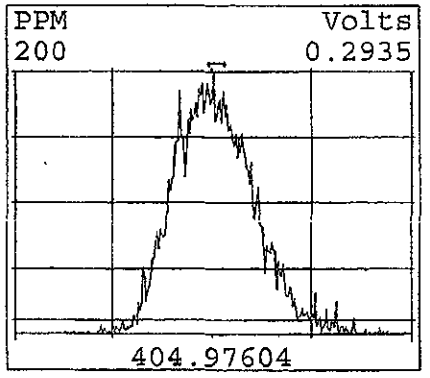


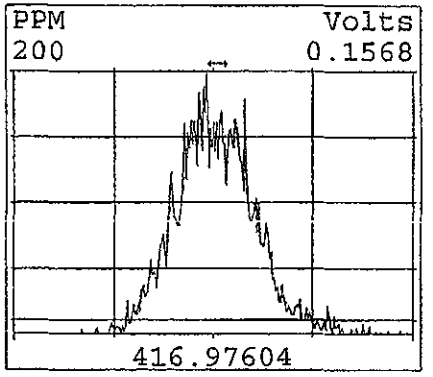




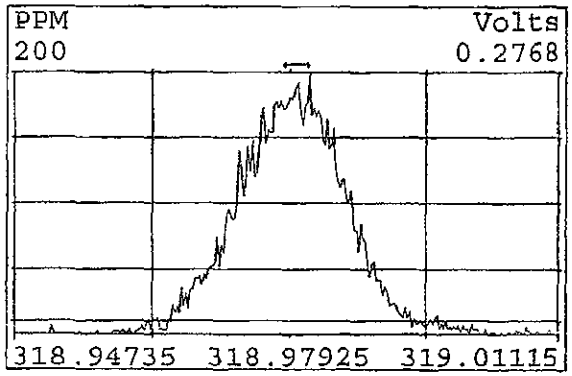


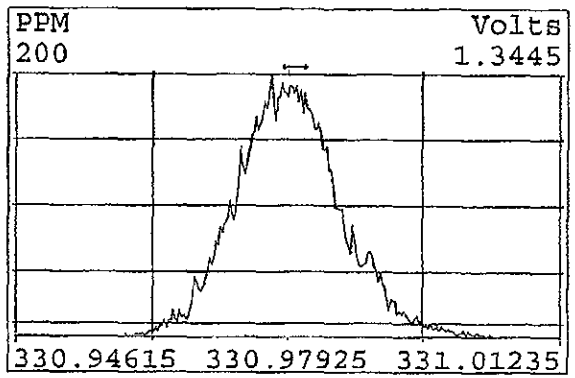


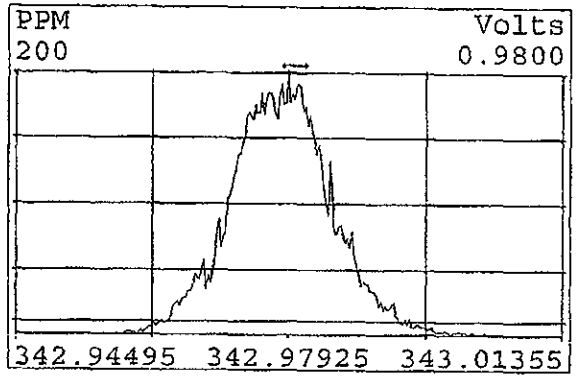


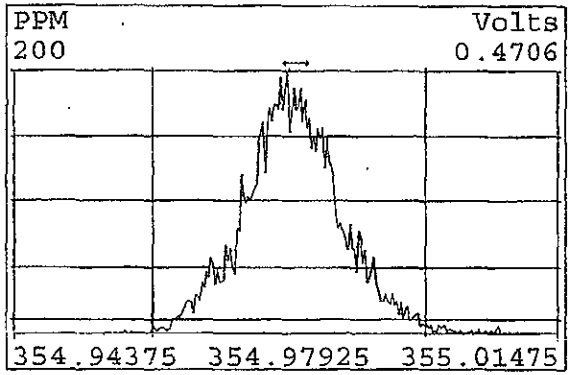


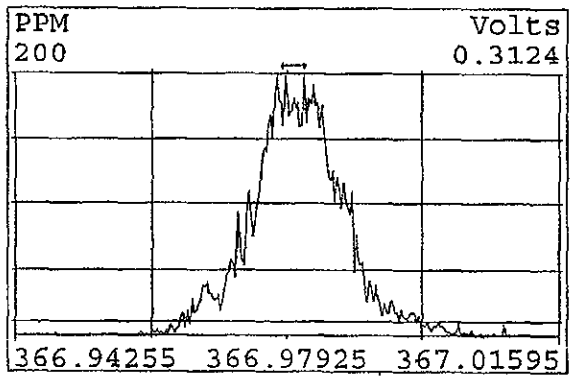
Peak Locate Examination:21-JUL-2010:14:31 File:21JL10A4D5
Experiment:DIOXINRES Function:2 Reference:PFK

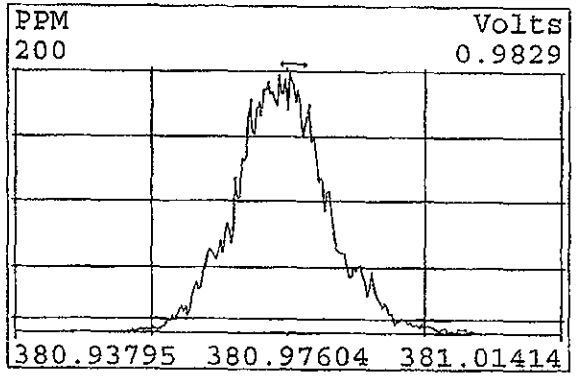


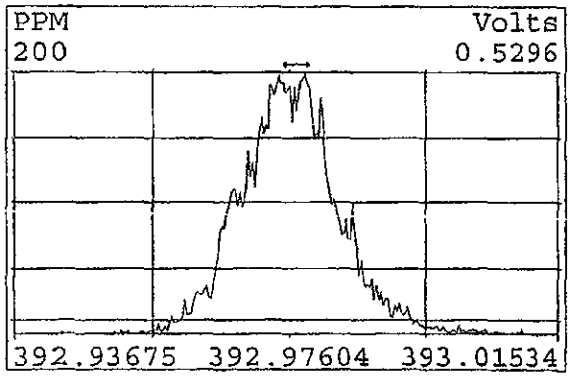


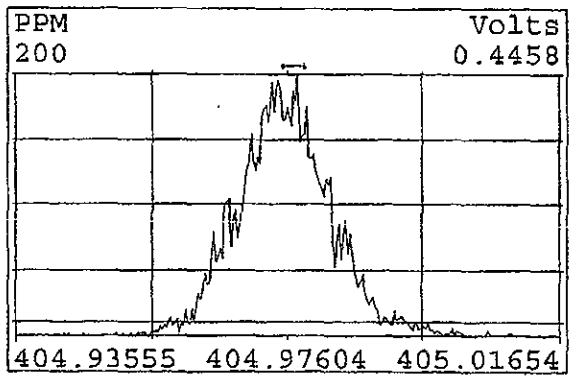


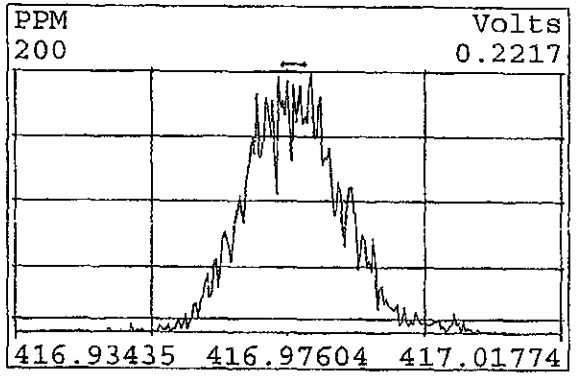




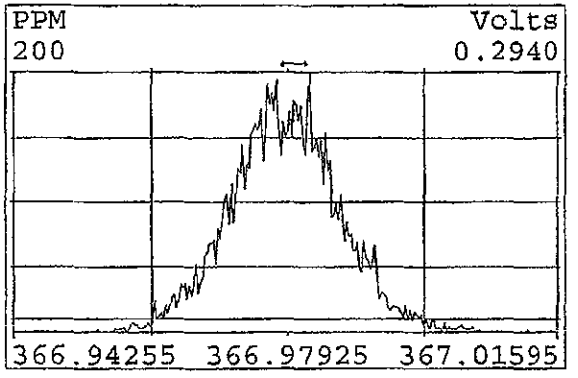


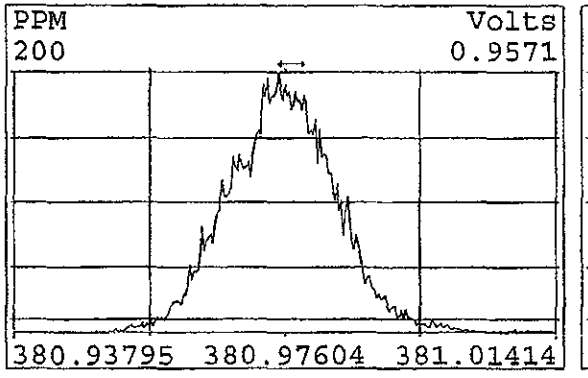


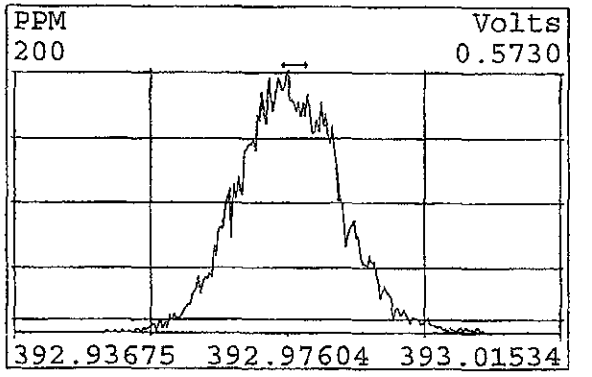


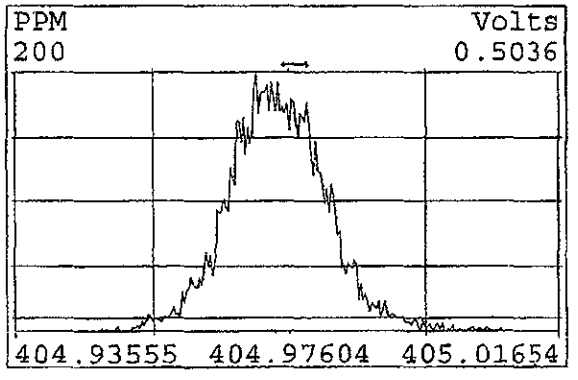


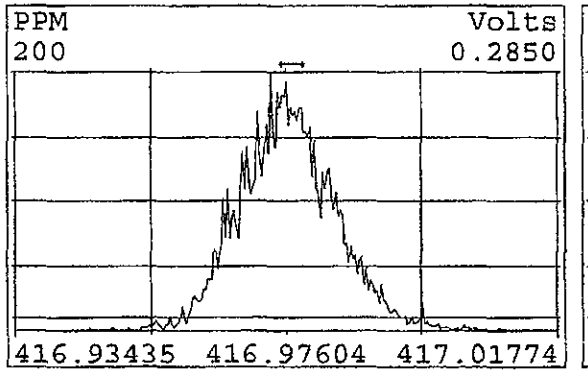
Peak Locate Examination:21-JUL-2010:14:31 File:21JL10A4D5
Experiment:DIOXINRES Function:3 Reference:PFK

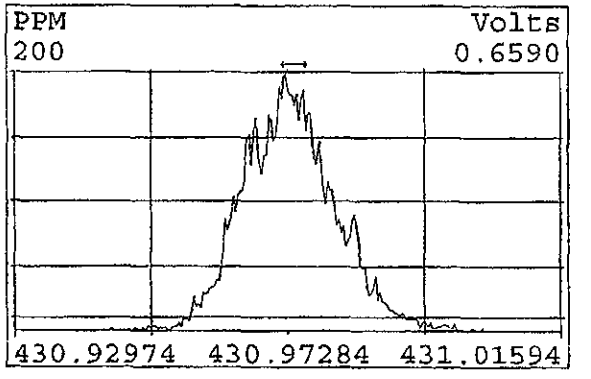


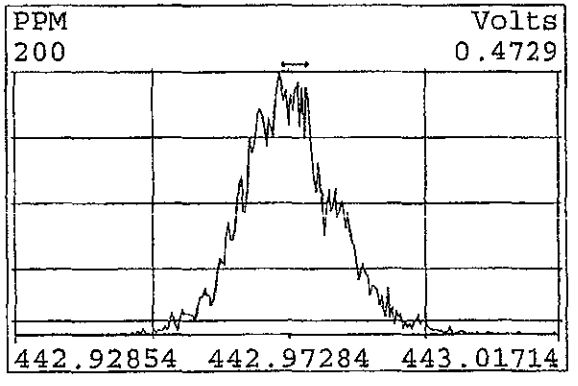


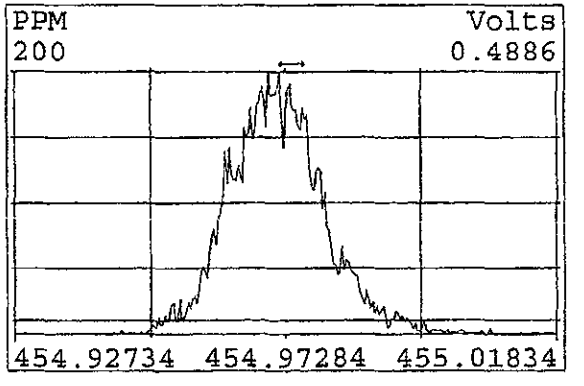




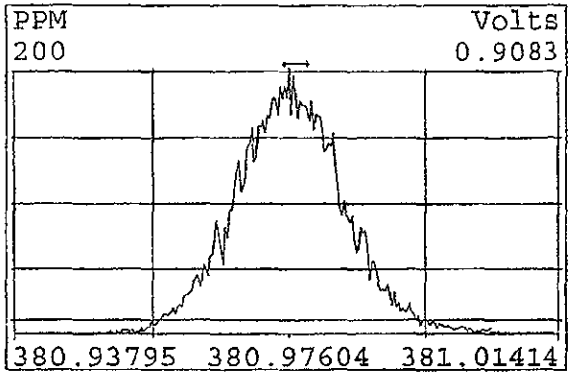


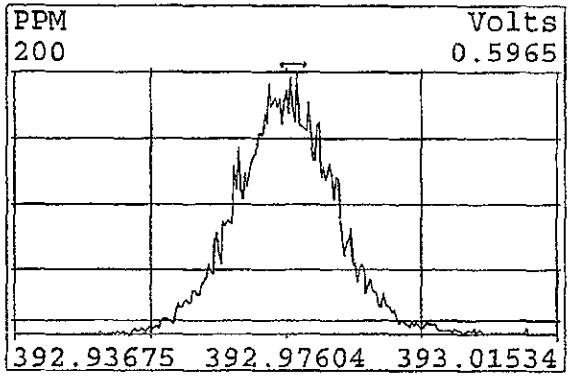


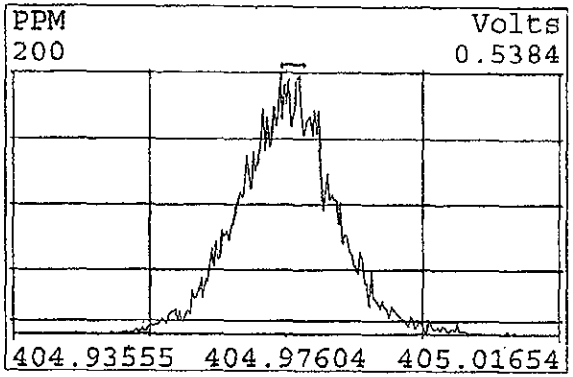


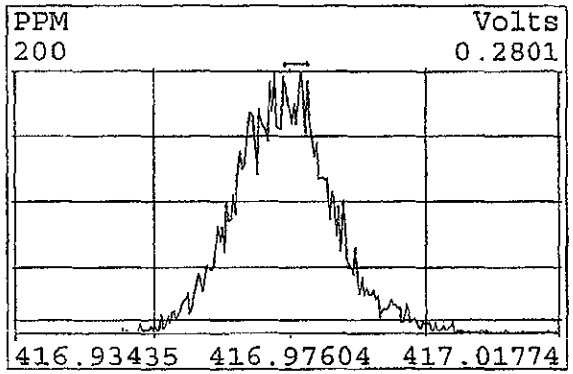


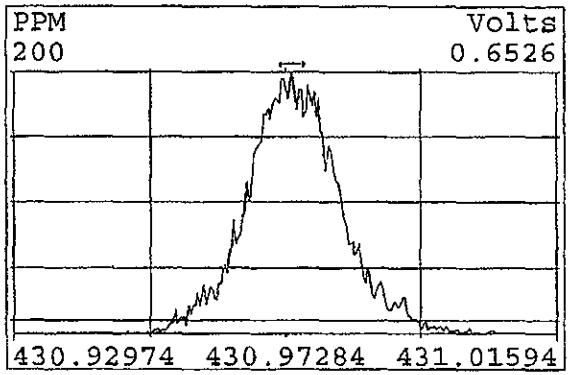
Peak Locate Examination:21-JUL-2010:14:31 File:21JL10A4D5
Experiment:DIOXINRES Function:4 Reference:PFK

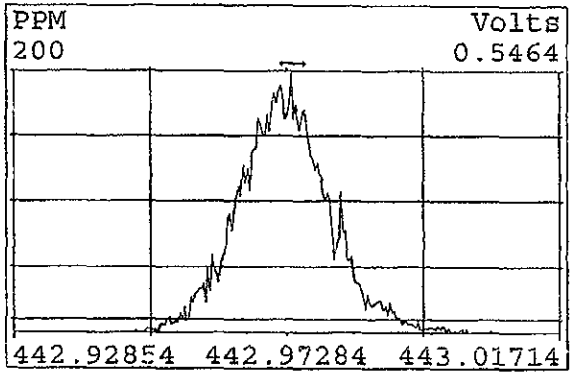


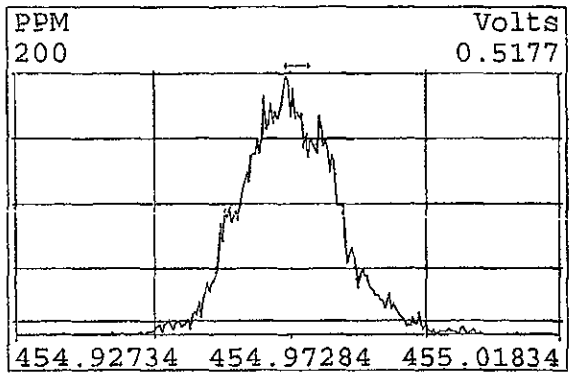


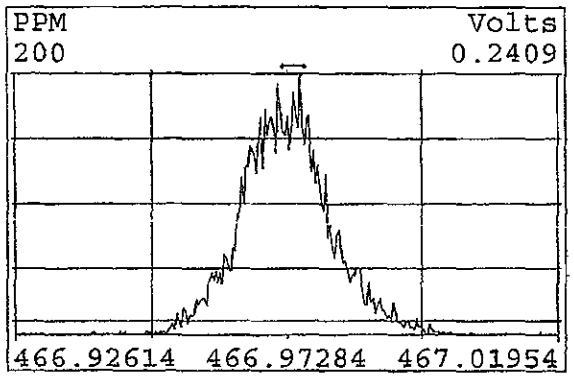


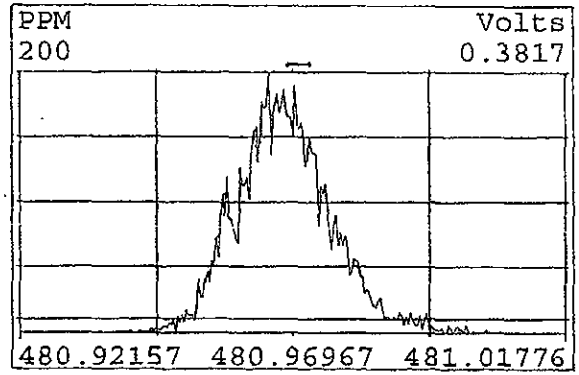




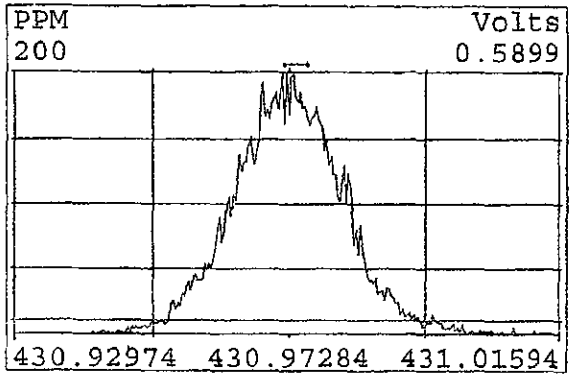


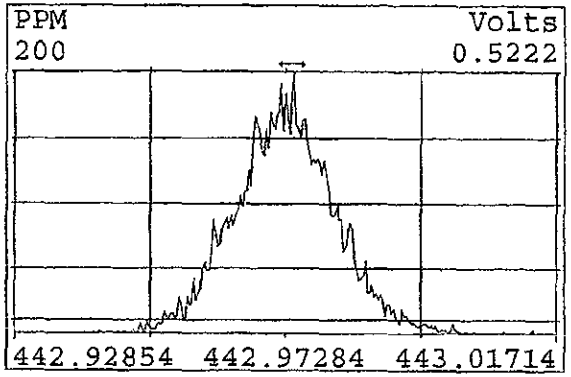


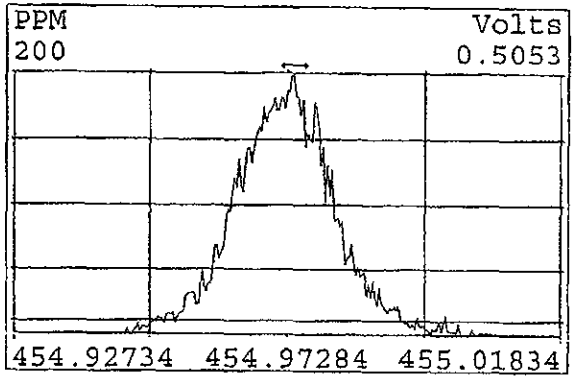


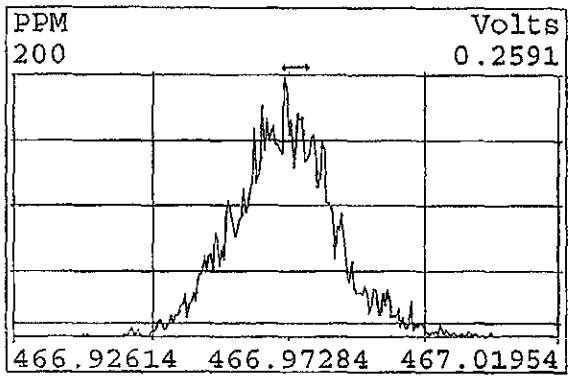


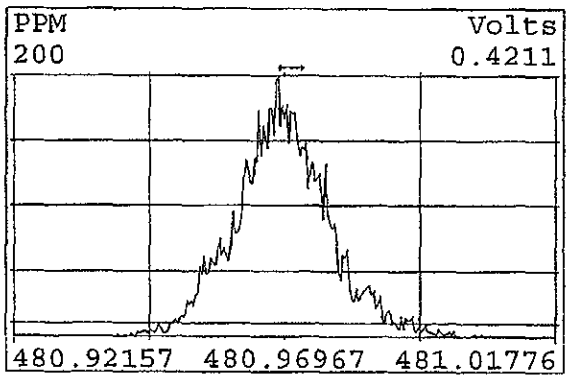
Peak Locate Examination:21-JUL-2010:14:31 File:21JL10A4D5
Experiment:DIOXINRES Function:5 Reference:PFK

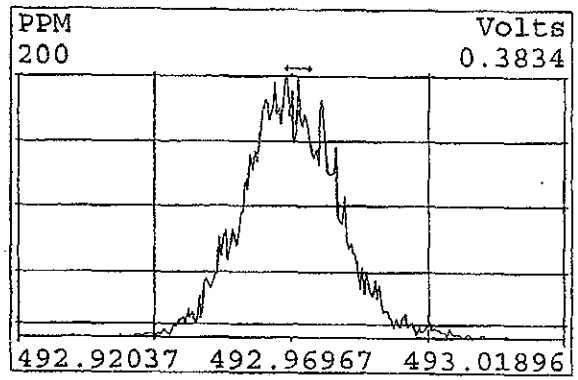


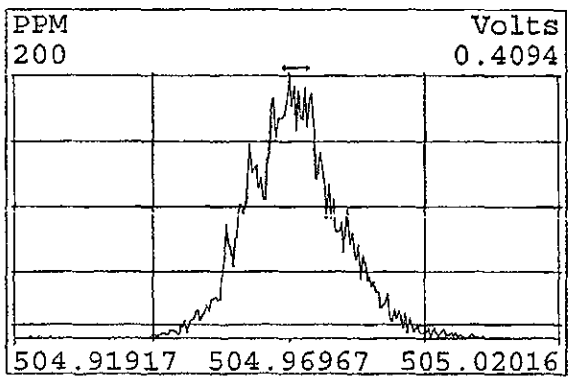


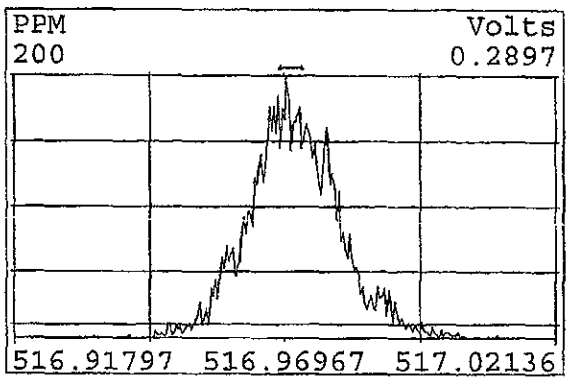




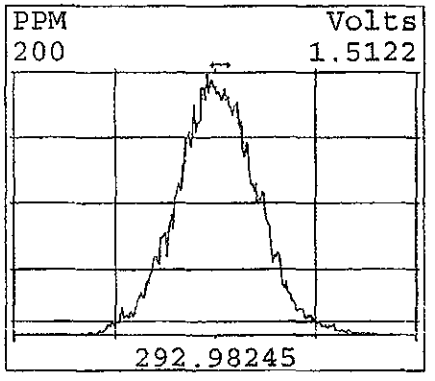


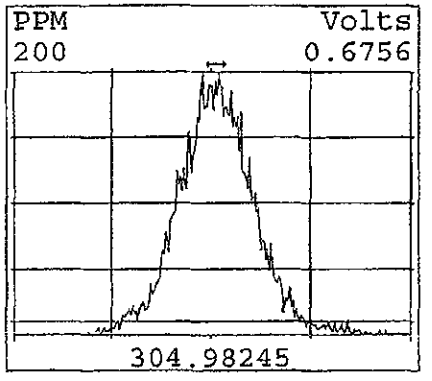


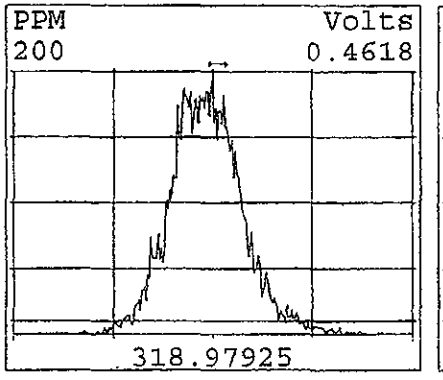


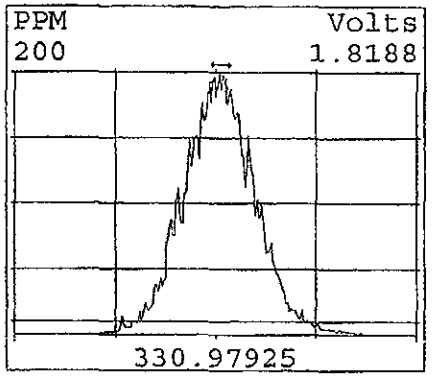


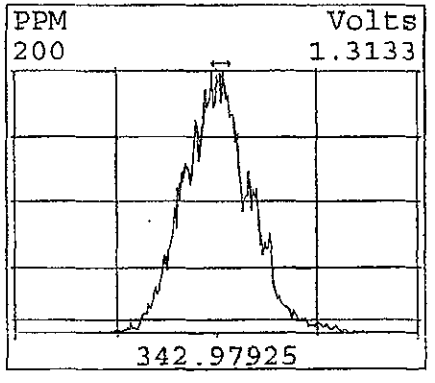
Peak Locate Examination:21-JUL-2010:21:39 File:RESCHK21JL10A4D5
Experiment:DIOXINRES Function:1 Reference:PFK

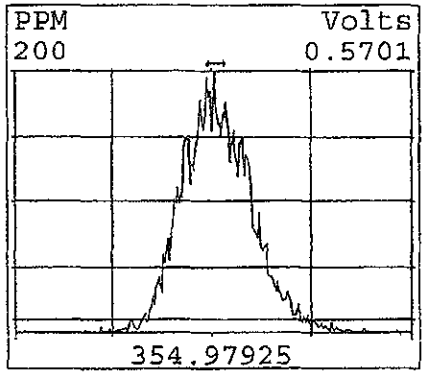


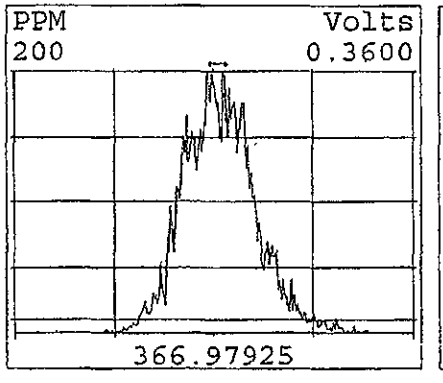


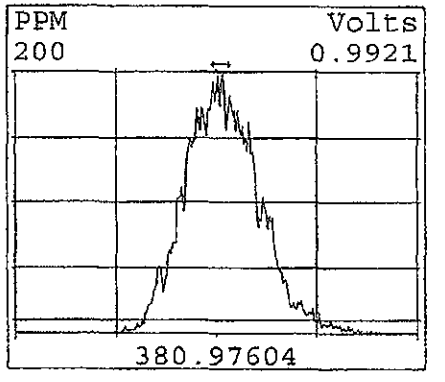


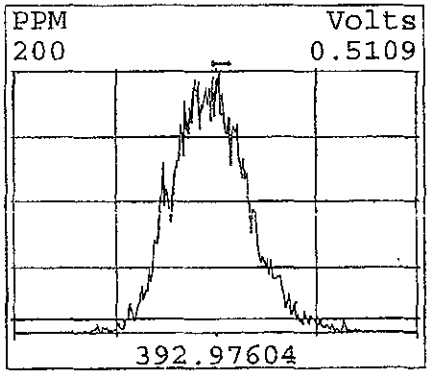


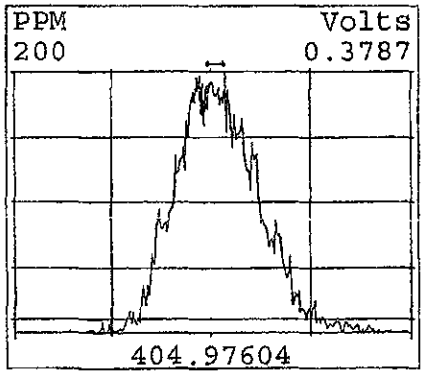


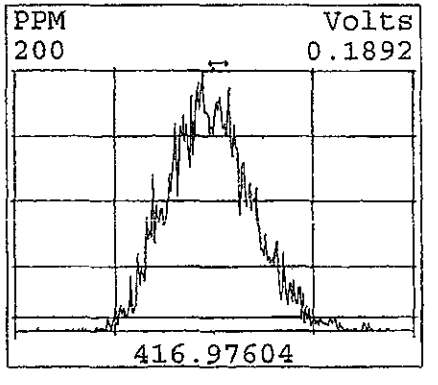




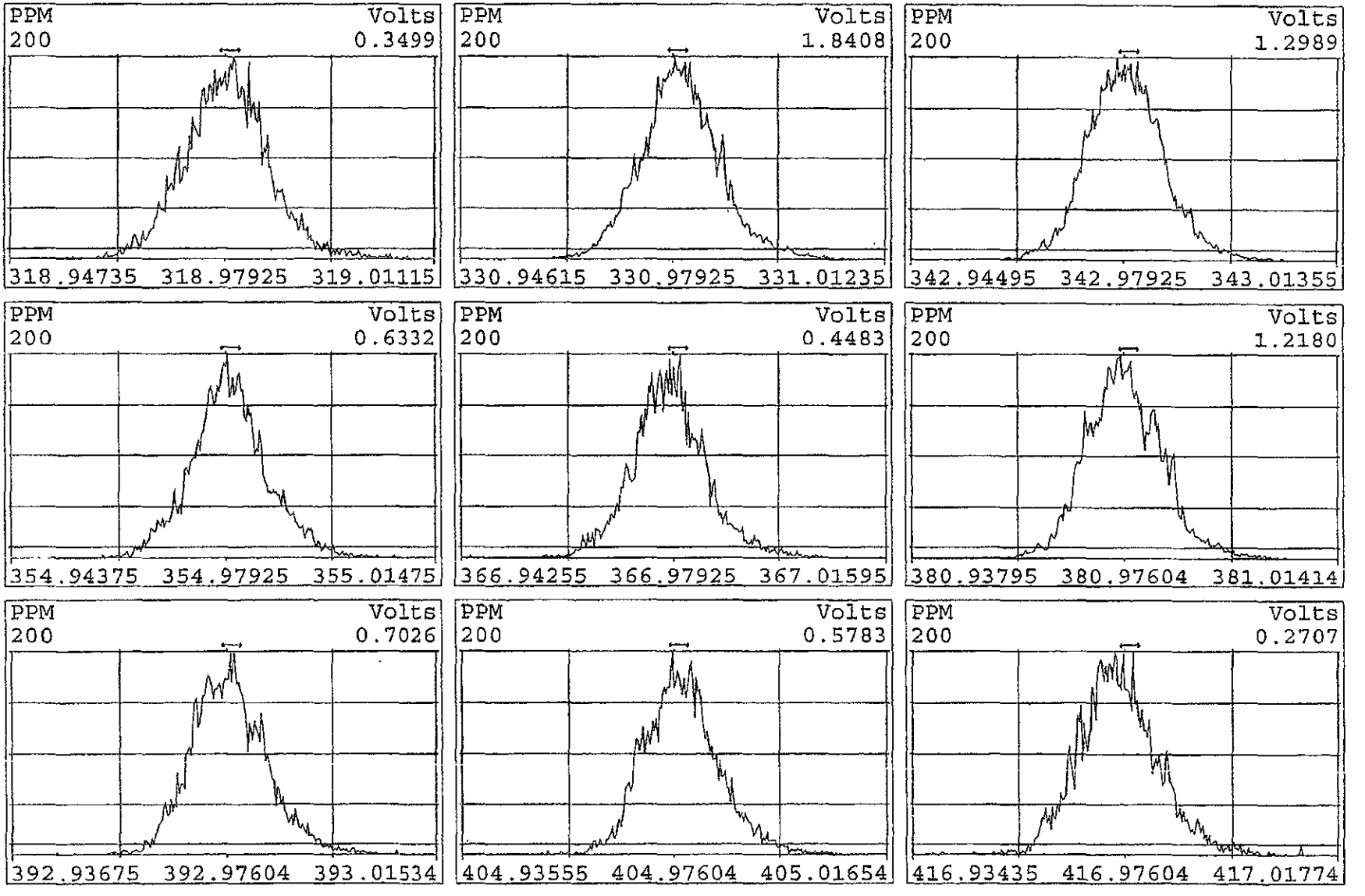




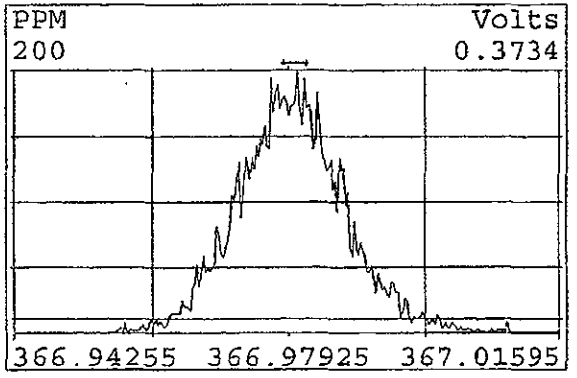


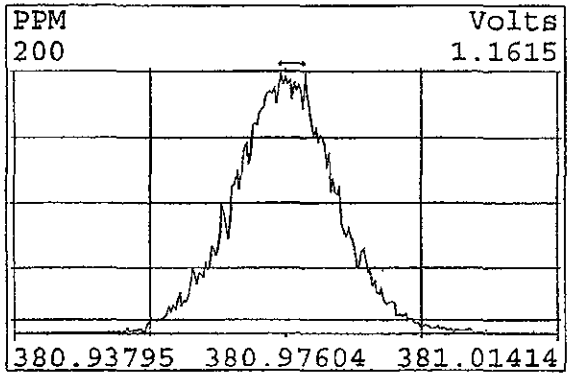


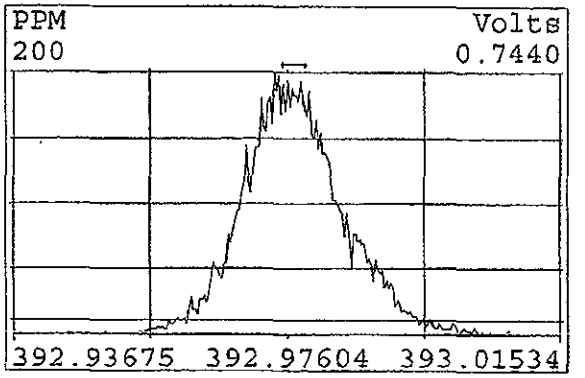
Peak Locate Examination:21-JUL-2010:21:40 File:RESCHK21JL10A4D5
Experiment:DIOXINRES Function:2 Reference:PFK

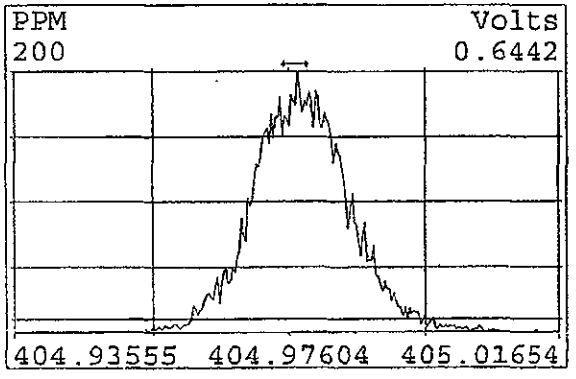


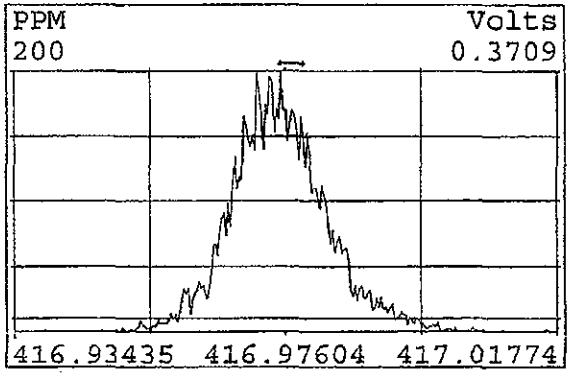
Peak Locate Examination:21-JUL-2010:21:40 File:RESCHK21JL10A4D5
Experiment:DIOXINRES Function:3 Reference:PFK

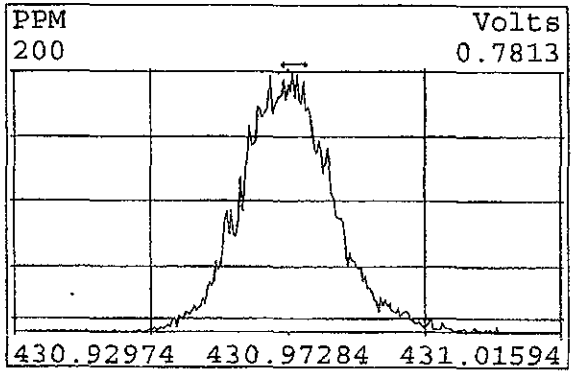


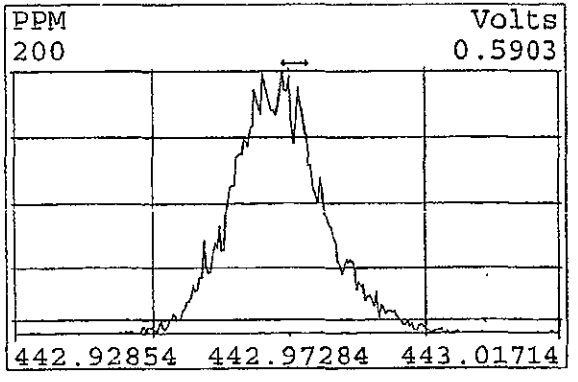


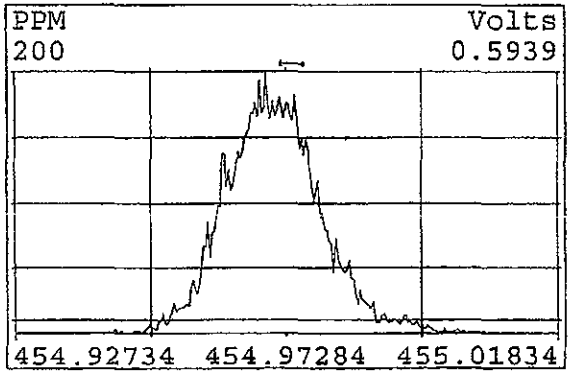




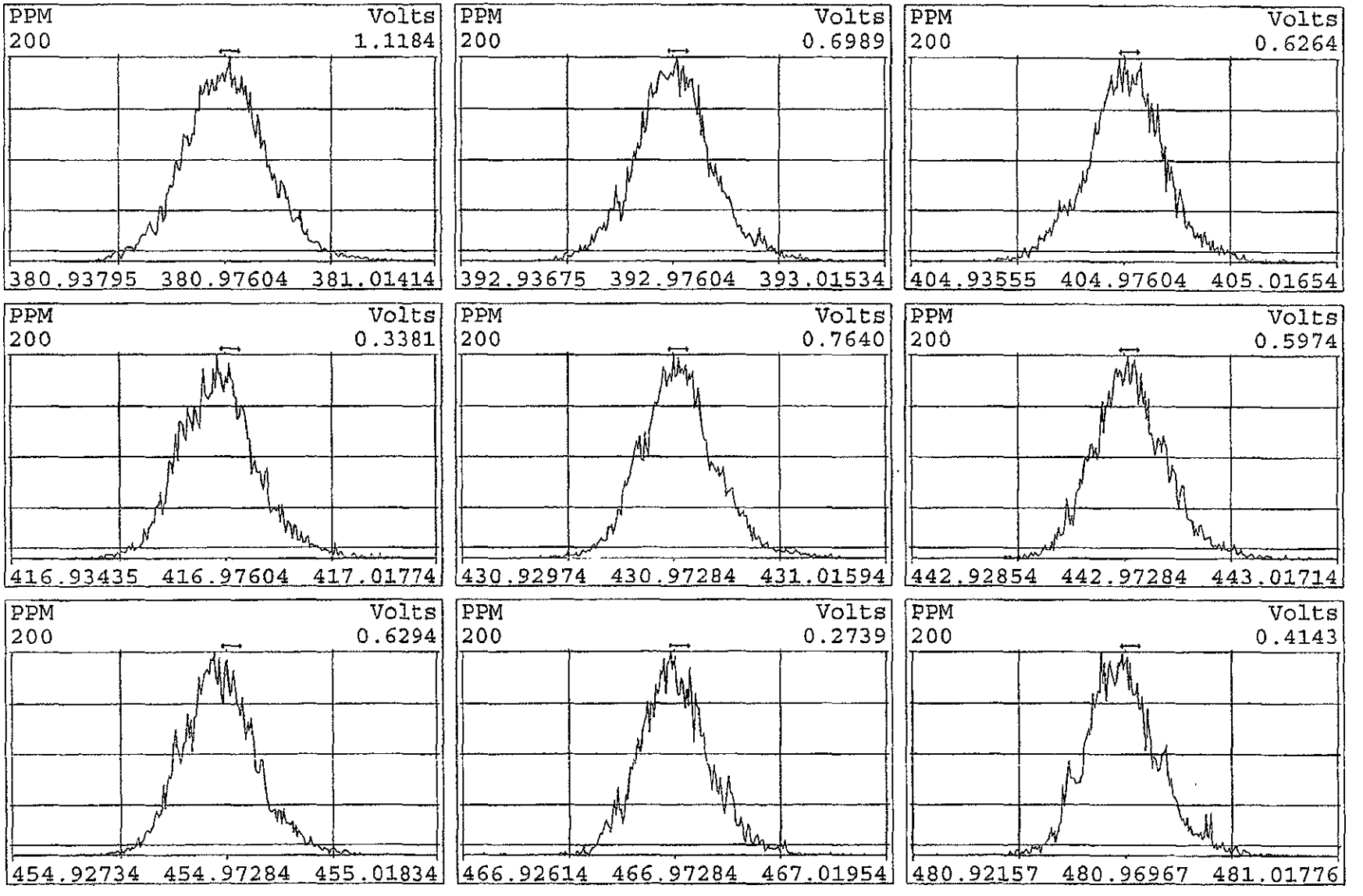




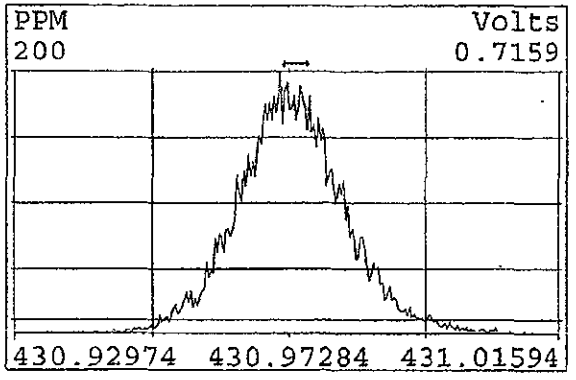


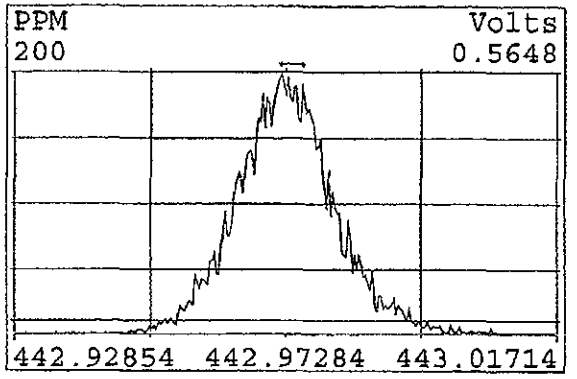


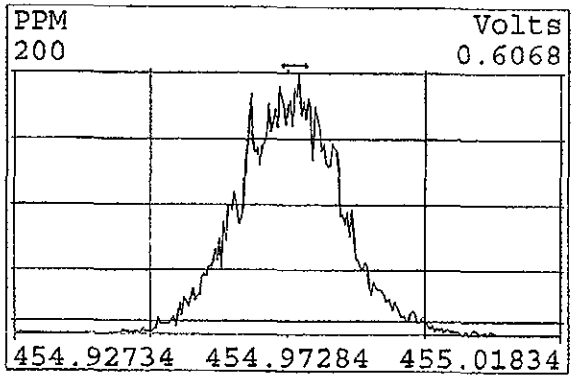
Peak Locate Examination:21-JUL-2010:21:41 File:RESCHK21JL10A4D5
Experiment:DIOXINRES Function:4 Reference:PFK

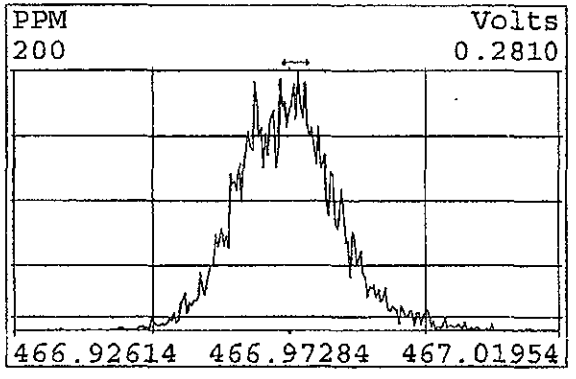


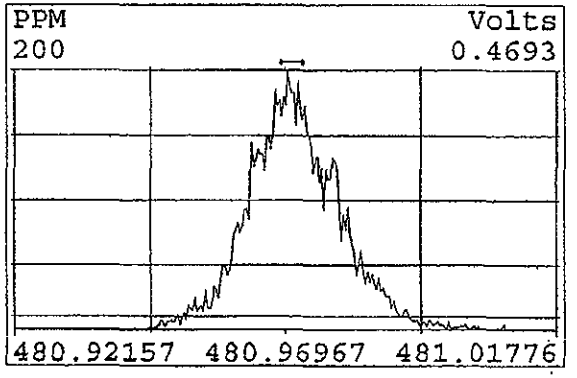
Peak Locate Examination:21-JUL-2010:21:44 File:RESCHK21JL10A4D5
Experiment:DIOXINRES Function:5 Reference:PFK

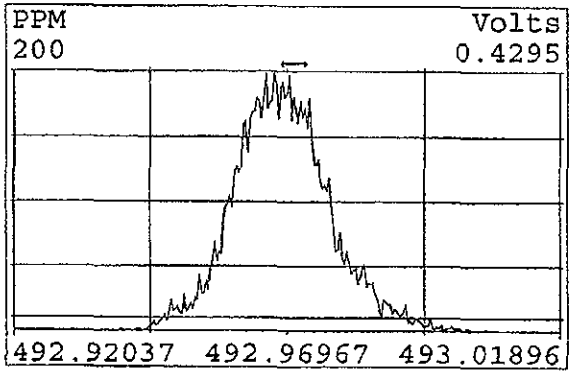


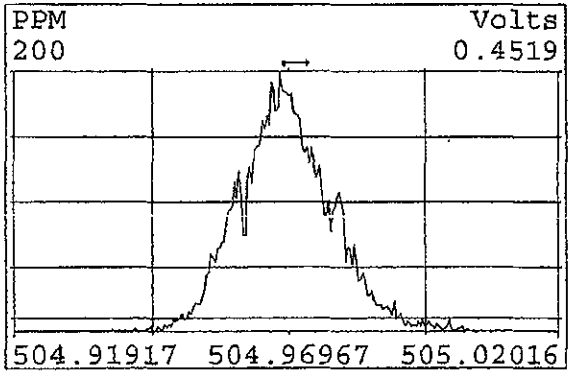


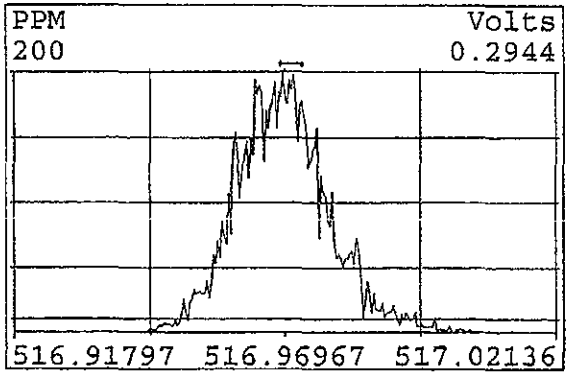


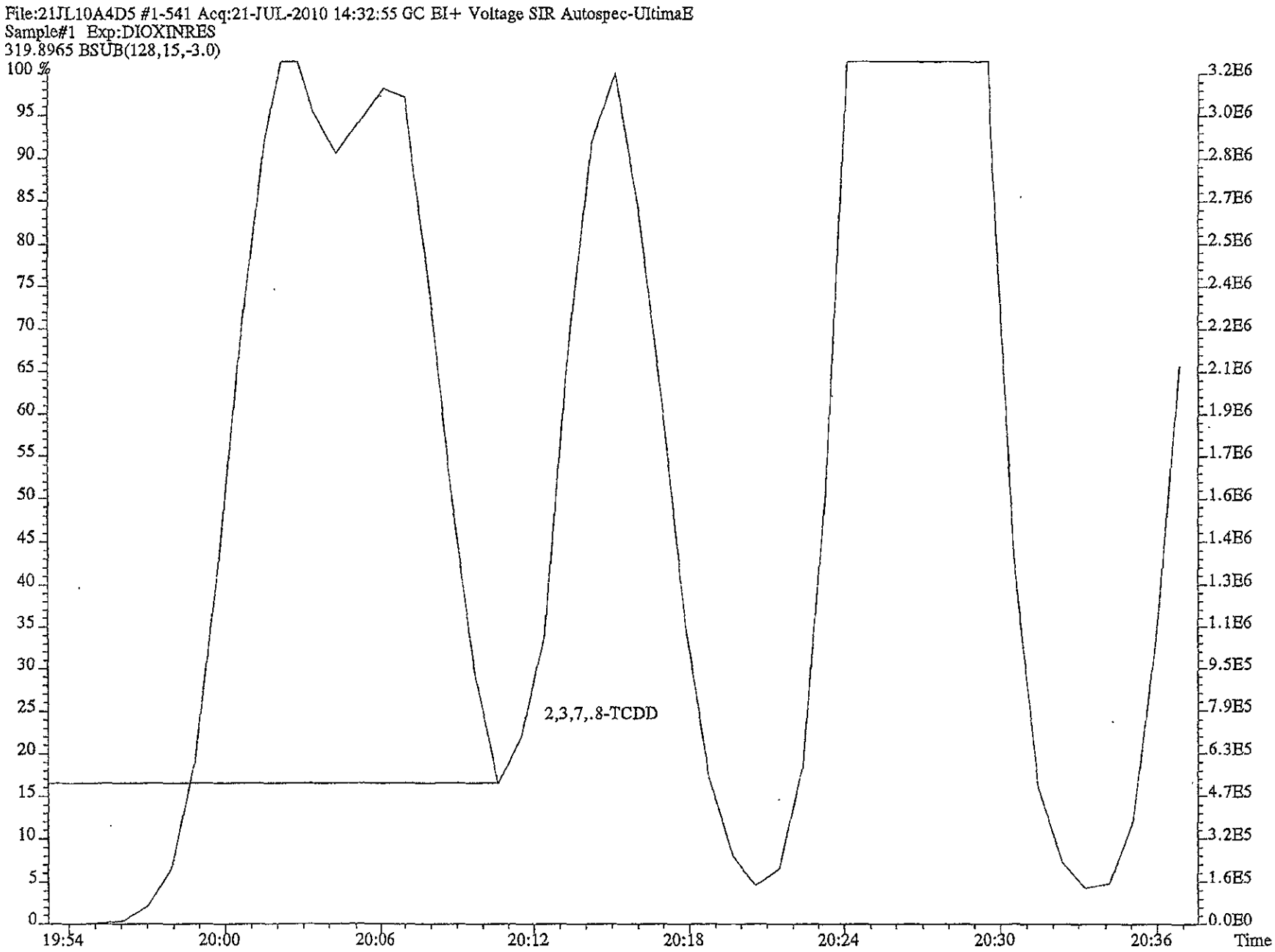











File:21JL10A4D5 #1-541 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Exp:DIOXINRES
319.8965 BSUB(128,15,-3.0)
100 %
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
3.2E6
3.0E6
2.8E6
2.7E6
2.5E6
2.4E6
2.2E6
2.1E6
1.9E6
1.7E6
1.6E6
1.4E6
1.3E6
1.1E6
9.5E5
7.9E5
6.3E5
4.7E5
3.2E5
1.6E5
0.0E0
2,3,7,.8-TCDD
19:54
20:00
20:06
20:12
20:18
20:24
20:30
20:36
Time

Run text: ST0721F Sample text: ST0721F :2nd Source 10DXN340
Run #6 Filename: 21JL10A4D5 S: 9 I: 1 Results: 21JL10A4D51613SS
Acquired: 21-JUL-10 20:34:02 Processed: 22-JUL-10 10:21:57
Run: 21JL10A4D5 Analyte: 1613 Cal: 16130721104D5
Factor 1: 800.000 Factor 2: 20.000 Sample size: 1.000000

Spiked @ 200/500/1000
7/8-9/10 JCG

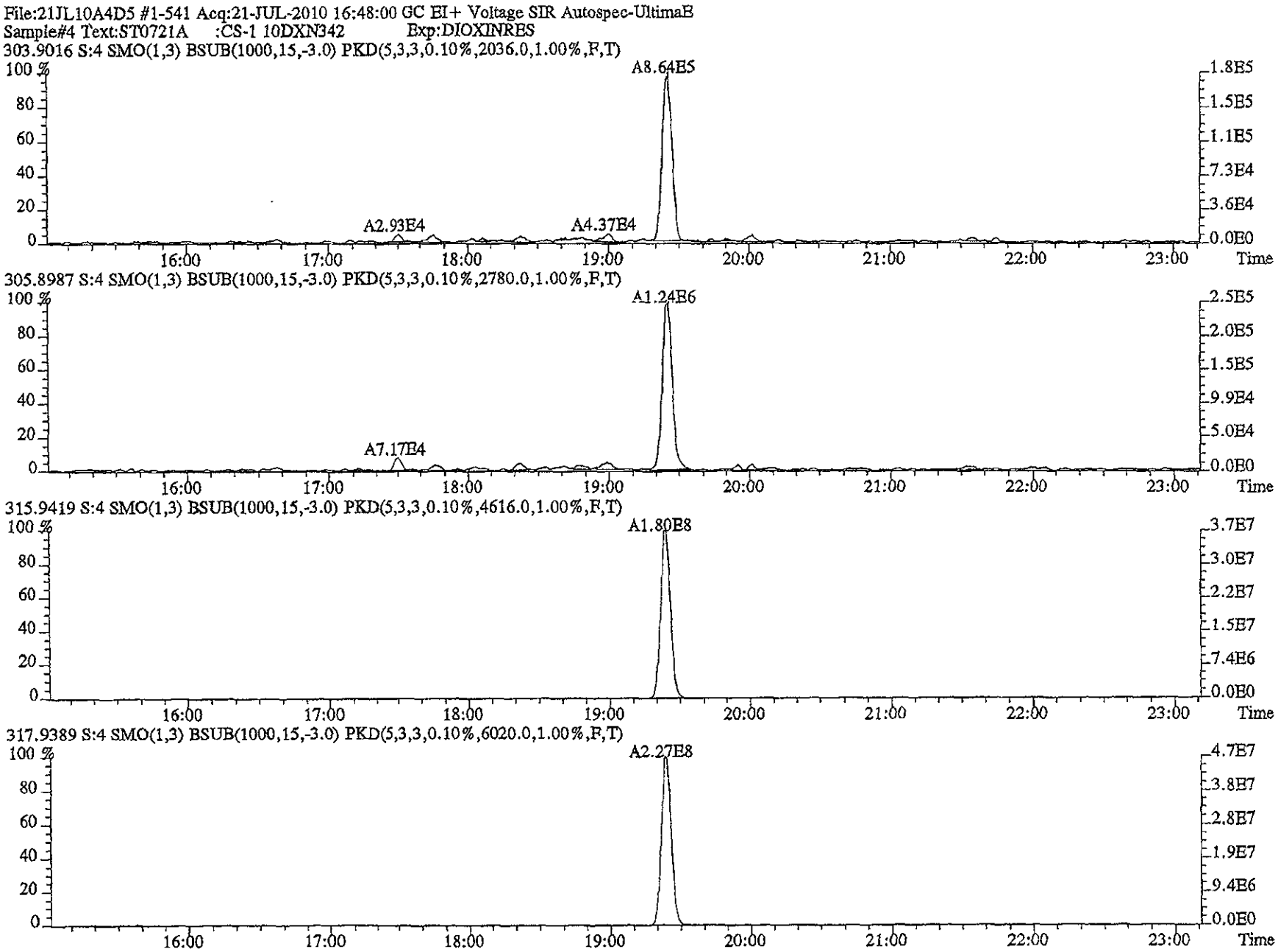
Name	Resp	RA		RT	RRF	Conc		EDL	Rec	M
13C-1,2,3,4-TCDD	307629000	0.78	y	20:01	-	92.11		-	-	n
13C-2,3,7,8-TCDF	413901000	0.78	y	19:24	1.23	2188.90		0.92	109.4	n
2,3,7,8-TCDF	38830800	0.76	y	19:25	0.99	188.67	94.3%	0.48	-	n
Total TCDF	39472107	1.33	n	17:31	0.99	191.78		0.48	-	n
13C-2,3,7,8-TCDD	294375000	0.78	y	20:13	0.91	2114.60		2.32	105.7	n
2,3,7,8-TCDD	27522700	0.81	y	20:14	0.98	190.13	95%	0.52	-	n
Total TCDD	27522700	0.81	y	20:14	0.98	190.13		0.52	-	n
37Cl-2,3,7,8-TCDD	76164600	1.00	y	20:14	1.20	412.65		0.41	103.2	n
13C-1,2,3,7,8-PeCDF	302436000	1.54	y	25:17	0.88	2244.44		1.40	112.2	n
1,2,3,7,8-PeCDF	77546500	1.54	y	25:19	1.08	476.31	95.3%	1.04	-	n
13C-2,3,4,7,8-PeCDF	271363000	1.54	y	26:49	0.88	2003.66		1.40	100.2	n
2,3,4,7,8-PeCDF	68923500	1.55	y	26:51	1.04	488.17	97.6%	1.32	-	n
Total F2 PeCDF	149591746	1.40	y	23:44	1.06	985.04		1.17	-	n
Total F1 PeCDF	*	*	n	NotFnd	1.06	*		1.08	-	n
13C-1,2,3,7,8-PeCDD	187042900	1.56	y	27:41	0.66	1840.17		0.85	92.0	n
1,2,3,7,8-PeCDD	41178400	1.55	y	27:43	0.93	475.77	95%	1.23	-	n
Total PeCDD	41347624	2.76	n	25:18	0.93	477.73		1.23	-	n
13C-1,2,3,7,8,9-HxCDD	186030000	1.31	y	33:22	-	78.56		-	-	y
13C-1,2,3,4,7,8-HxCDF	197163100	0.50	y	32:16	1.04	2028.83		4.92	101.4	n
1,2,3,4,7,8-HxCDF	62815000	1.17	y	32:17	1.22	523.47	104.7%	1.49	-	n
13C-1,2,3,6,7,8-HxCDF	249545100	0.52	y	32:22	1.19	2251.50		4.31	112.6	n
1,2,3,6,7,8-HxCDF	64154700	1.18	y	32:24	1.12	458.58	91.7%	1.45	-	n
13C-2,3,4,6,7,8-HxCDF	228157700	0.51	y	32:54	1.12	2184.24		4.58	109.2	n
2,3,4,6,7,8-HxCDF	61275400	1.15	y	32:54	1.14	469.19	93.8%	1.35	-	n
13C-1,2,3,7,8,9-HxCDF	202978100	0.52	y	33:31	1.02	2140.44		5.04	107.0	n
1,2,3,7,8,9-HxCDF	54870000	1.19	y	33:32	1.12	482.01	96.4%	1.58	-	n
Total HxCDF	243548785	1.21	y	31:03	1.15	1936.68		1.46	-	n
13C-1,2,3,4,7,8-HxCDD	168448700	1.31	y	33:02	0.88	2067.53		1.23	103.4	y
1,2,3,4,7,8-HxCDD	39583500	1.24	y	33:03	0.98	479.57	95.9%	1.14	-	n
13C-1,2,3,6,7,8-HxCDD	171613300	1.31	y	33:06	0.83	2221.03		1.29	111.1	y
1,2,3,6,7,8-HxCDD	45328400	1.28	y	33:07	1.16	454.27	90.9%	0.97	-	n
1,2,3,7,8,9-HxCDD	45402600	1.24	y	33:22	1.15	465.05	93%	0.97	-	n
Total HxCDD	130450140	4.93	n	32:18	1.09	1400.35		1.02	-	n
13C-1,2,3,4,6,7,8-HpCDF	182370400	0.43	y	34:53	0.91	2154.51		6.23	107.7	n
1,2,3,4,6,7,8-HpCDF	58068900	1.00	y	34:54	1.35	473.20	94.6%	1.73	-	n
13C-1,2,3,4,7,8,9-HpCDF	150417500	0.43	y	36:02	0.76	2122.83		7.45	106.1	n
1,2,3,4,7,8,9-HpCDF	47489800	1.02	y	36:03	1.30	483.90	96.8%	2.38	-	n
Total HpCDF	107404819	1.00	y	34:54	1.33	973.82		2.02	-	n

13C-1,2,3,4,6,7,8-HpCDD	161779300	0.96	y	35:42	0.83	2104.12		5.07	105.2	n
1,2,3,4,6,7,8-HpCDD	42052300	1.04	y	35:43	1.07	485.09	97%	1.80	-	n
Total HpCDD	43164489	1.03	y	35:09	1.07	497.92		1.80	-	n
13C-OCDD	265623000	0.89	y	38:16	0.62	4606.72		4.74	115.2	n
OCDF	85350600	0.91	y	38:23	1.37	937.96	93.8%	1.38	-	n
OCDD	74923500	0.91	y	38:16	1.20	940.76	94 %	1.58	-	n

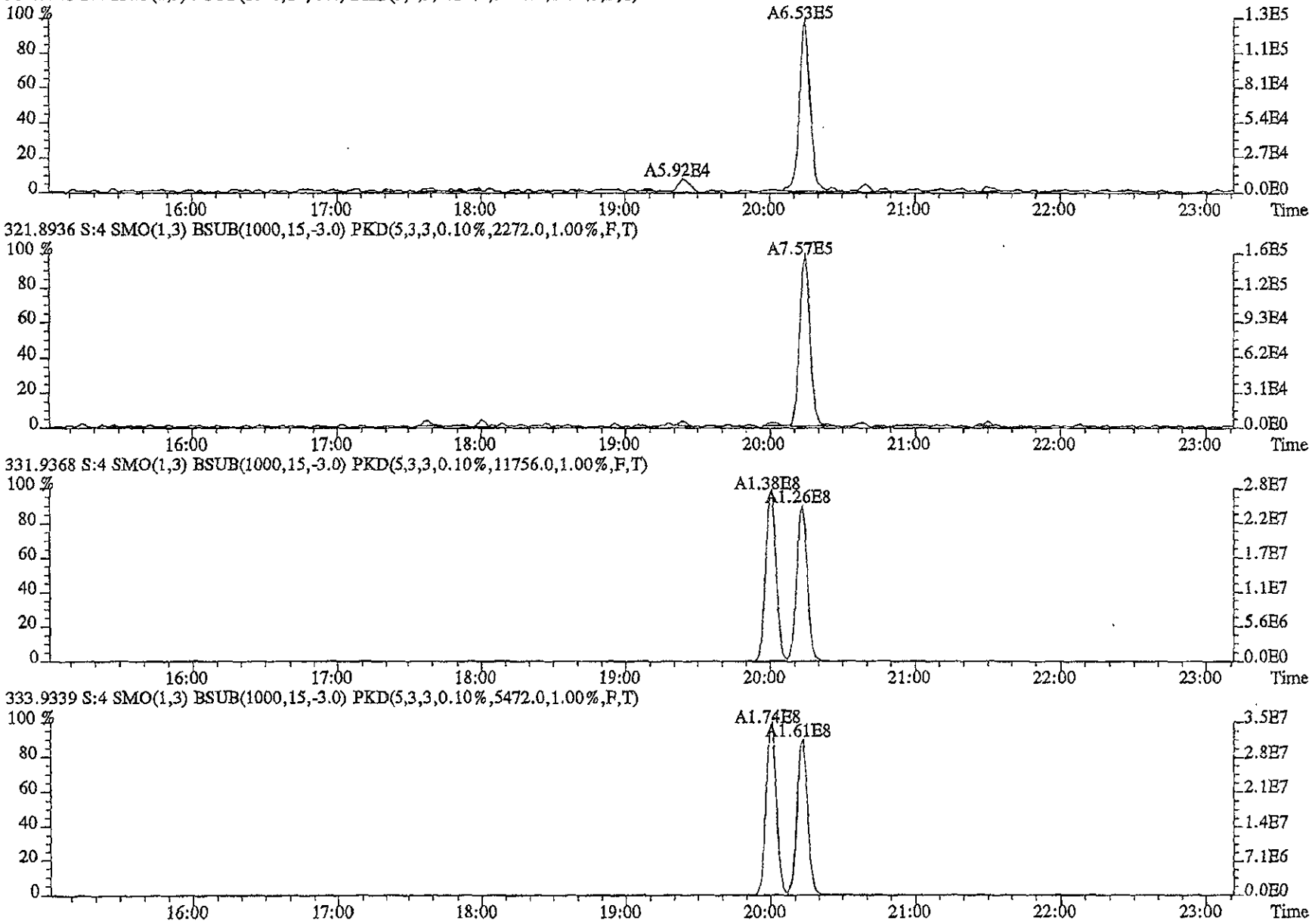
Run text: ST0721F Sample text: ST0721F :2nd Source 10DXN340
Run #6 Filename: 21JL10A4D5 S: 9 I: 1 Results: 21JL10A4D51613SS
Acquired: 21-JUL-10 20:34:02 Processed: 22-JUL-10 10:21:57
Run: 21JL10A4D5 Analyte: 1613 Cal: 16130721104D5
Factor 1: 800.000 Factor 2: 20.000 Sample size: 1.000000

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	307629000	0.78	y	20:01	-	92.11	-	-	n
13C-2,3,7,8-TCDF	413901000	0.78	y	19:24	1.23	2188.90	0.92	109.4	n
2,3,7,8-TCDF	38830800	0.76	y	19:25	0.99	188.67	0.48	-	n
Total TCDF	39472107	1.33	n	17:31	0.99	191.78	0.48	-	n
13C-2,3,7,8-TCDD	294375000	0.78	y	20:13	0.91	2114.60	2.32	105.7	n
2,3,7,8-TCDD	27522700	0.81	y	20:14	0.98	190.13	0.52	-	n
Total TCDD	27522700	0.81	y	20:14	0.98	190.13	0.52	-	n
37Cl-2,3,7,8-TCDD	76164600	1.00	y	20:14	1.20	412.65	0.41	103.2	n
13C-1,2,3,7,8-PeCDF	302436000	1.54	y	25:17	0.88	2244.44	1.40	112.2	n
1,2,3,7,8-PeCDF	77546500	1.54	y	25:19	1.08	476.31	1.04	-	n
13C-2,3,4,7,8-PeCDF	271363000	1.54	y	26:49	0.88	2003.66	1.40	100.2	n
2,3,4,7,8-PeCDF	68923500	1.55	y	26:51	1.04	488.17	1.32	-	n
Total F2 PeCDF	149591746	1.40	y	23:44	1.06	985.04	1.17	-	n
Total F1 PeCDF	*	*	n	NotFnd	1.06	*	1.08	-	n
13C-1,2,3,7,8-PeCDD	187042900	1.56	y	27:41	0.66	1840.17	0.85	92.0	n
1,2,3,7,8-PeCDD	41178400	1.55	y	27:43	0.93	475.77	1.23	-	n
Total PeCDD	41347624	2.76	n	25:18	0.93	477.73	1.23	-	n
13C-1,2,3,7,8,9-HxCDD	186073000	1.31	y	33:22	-	78.58	-	-	n
13C-1,2,3,4,7,8-HxCDF	197163100	0.50	y	32:16	1.04	2028.36	4.92	101.4	n
1,2,3,4,7,8-HxCDF	62815000	1.17	y	32:17	1.22	523.47	1.49	-	n
13C-1,2,3,6,7,8-HxCDF	249545100	0.52	y	32:22	1.19	2250.98	4.31	112.5	n
1,2,3,6,7,8-HxCDF	64154700	1.18	y	32:24	1.12	458.58	1.45	-	n
13C-2,3,4,6,7,8-HxCDF	228157700	0.51	y	32:54	1.12	2183.74	4.58	109.2	n
2,3,4,6,7,8-HxCDF	61275400	1.15	y	32:54	1.14	469.19	1.35	-	n
13C-1,2,3,7,8,9-HxCDF	202978100	0.52	y	33:31	1.02	2139.94	5.04	107.0	n
1,2,3,7,8,9-HxCDF	54870000	1.19	y	33:32	1.12	482.01	1.58	-	n
Total HxCDF	243548785	1.21	y	31:03	1.15	1936.68	1.46	-	n
13C-1,2,3,4,7,8-HxCDD	151949728	1.50	n	33:02	0.88	1864.59	1.23	93.2	n
1,2,3,4,7,8-HxCDD	39583500	1.24	y	33:03	0.98	531.65	1.26	-	n
13C-1,2,3,6,7,8-HxCDD	170186500	1.15	y	33:06	0.83	2202.05	1.29	110.1	n
1,2,3,6,7,8-HxCDD	45328400	1.28	y	33:07	1.16	458.08	0.97	-	n
1,2,3,7,8,9-HxCDD	45402600	1.24	y	33:22	1.15	490.93	1.03	-	n
Total HxCDD	130450140	4.93	n	32:18	1.09	1482.19	1.08	-	n
13C-1,2,3,4,6,7,8-HpCDF	182370400	0.43	y	34:53	0.91	2154.02	6.23	107.7	n
1,2,3,4,6,7,8-HpCDF	58068900	1.00	y	34:54	1.35	473.20	1.73	-	n
13C-1,2,3,4,7,8,9-HpCDF	150417500	0.43	y	36:02	0.76	2122.34	7.45	106.1	n
1,2,3,4,7,8,9-HpCDF	47489800	1.02	y	36:03	1.30	483.90	2.38	-	n
Total HpCDF	107404819	1.00	y	34:54	1.33	973.82	2.02	-	n

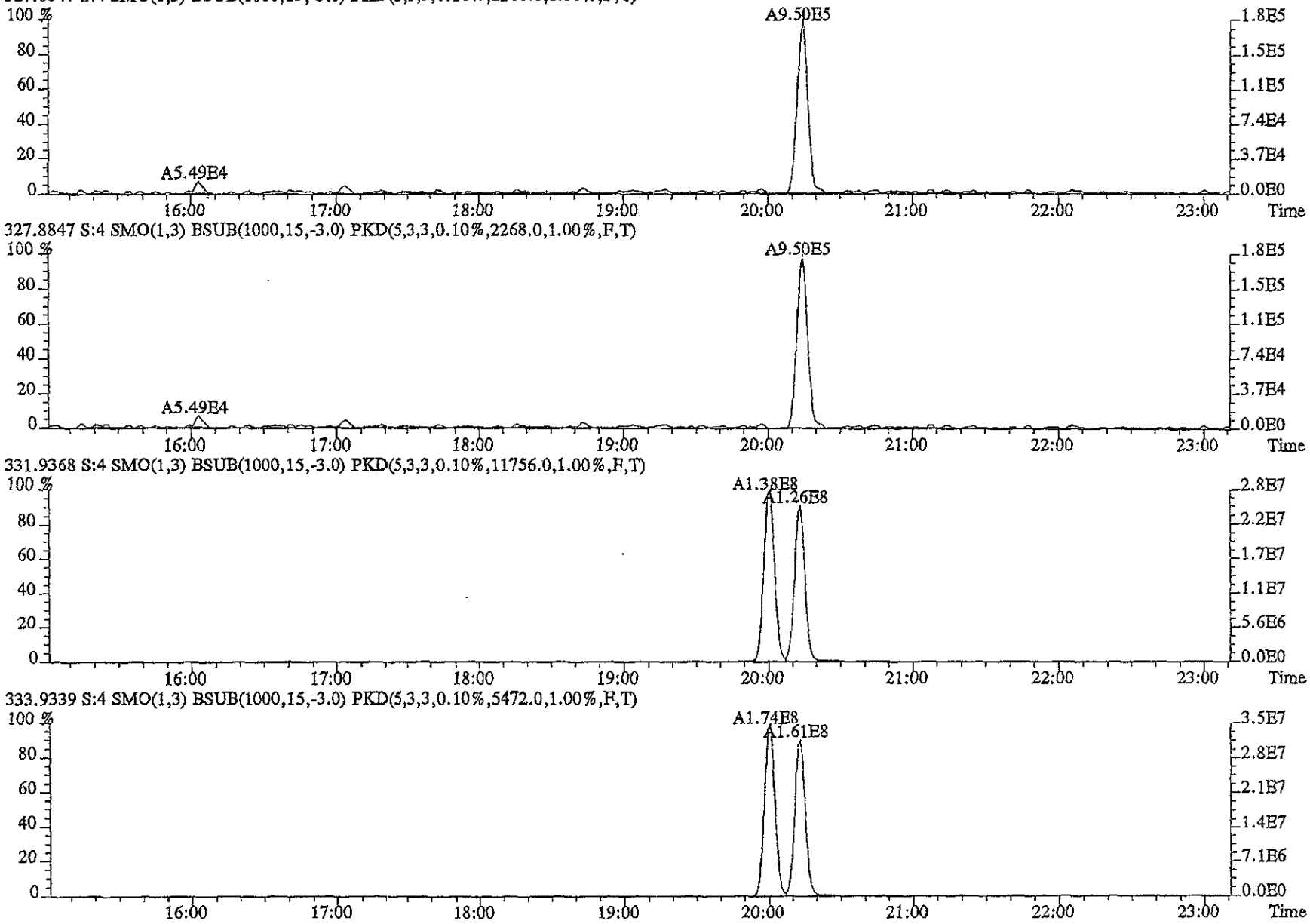
13C-1,2,3,4,6,7,8-HpCDD	161779300	0.96	y	35:42	0.83	2103.64	5.07	105.2	n
1,2,3,4,6,7,8-HpCDD	42052300	1.04	y	35:43	1.07	485.09	1.80	-	n
Total HpCDD	43164489	1.03	y	35:09	1.07	497.92	1.80	-	n
13C-OCDD	265623000	0.89	y	38:16	0.62	4605.66	4.74	115.1	n
OCDF	85350600	0.91	y	38:23	1.37	937.96	1.38	-	n
OCDD	74923500	0.91	y	38:16	1.20	940.76	1.58	-	n


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES
303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2036.0,1.00%,F,T)
A8.64E5
A2.93E4
A4.37E4
305.8987 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2780.0,1.00%,F,T)
A1.24E6
A7.17E4
315.9419 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4616.0,1.00%,F,T)
A1.80E8
317.9389 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6020.0,1.00%,F,T)
A2.27E8
100 %
80
60
40
20
0
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
Time
1.8E5
1.5E5
1.1E5
7.3E4
3.6E4
0.0E0
2.5E5
2.0E5
1.5E5
9.9E4
5.0E4
0.0E0
3.7E7
3.0E7
2.2E7
1.5E7
7.4E6
0.0E0
4.7E7
3.8E7
2.8E7
1.9E7
9.4E6
0.0E0

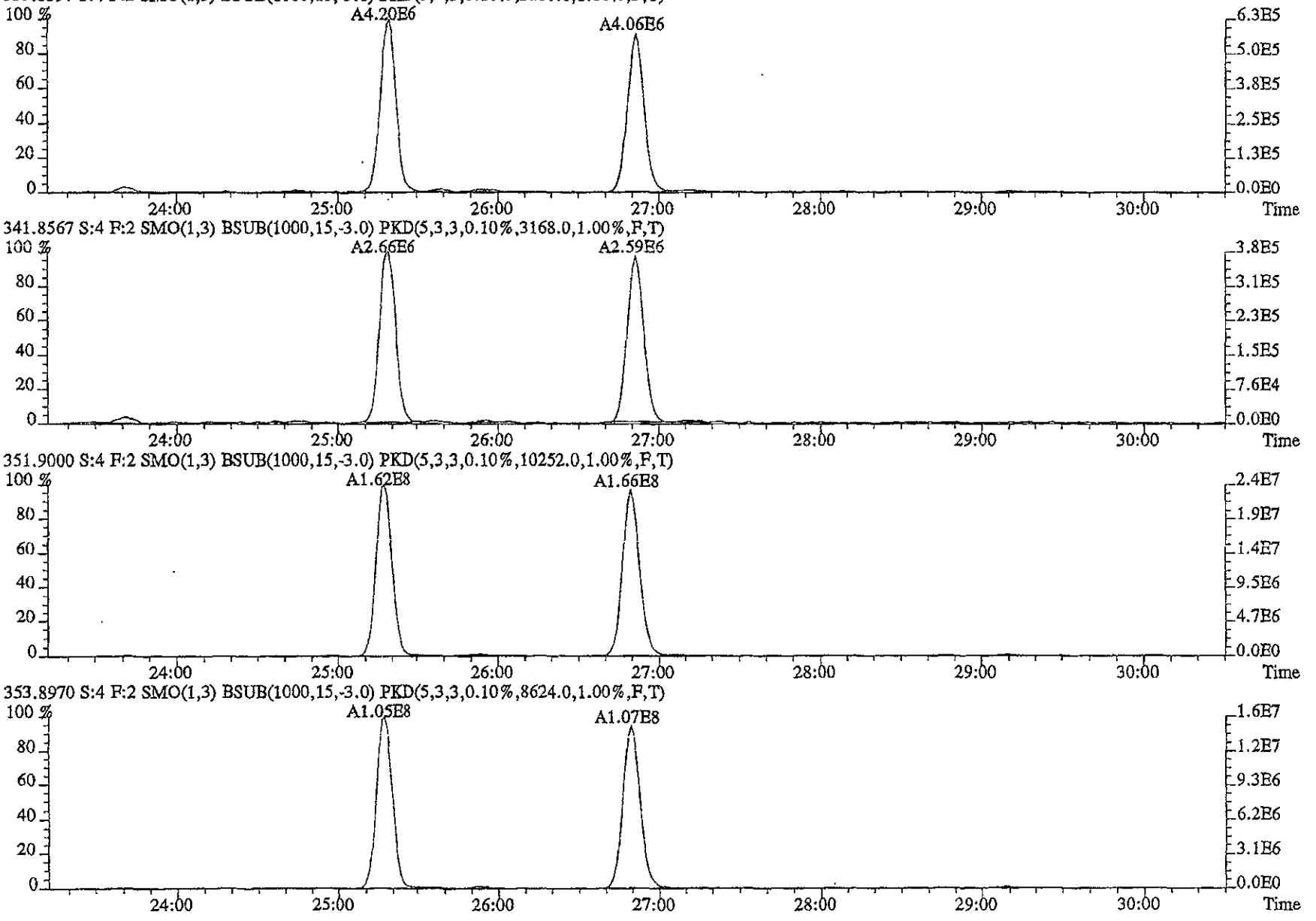
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES



File:21JL10A4D5 #1-541 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES

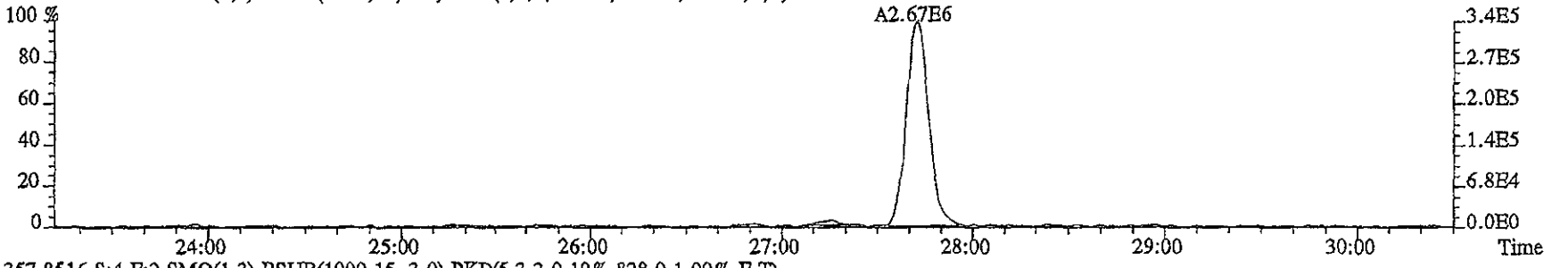


File:21JL10A4D5 #1-469 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES

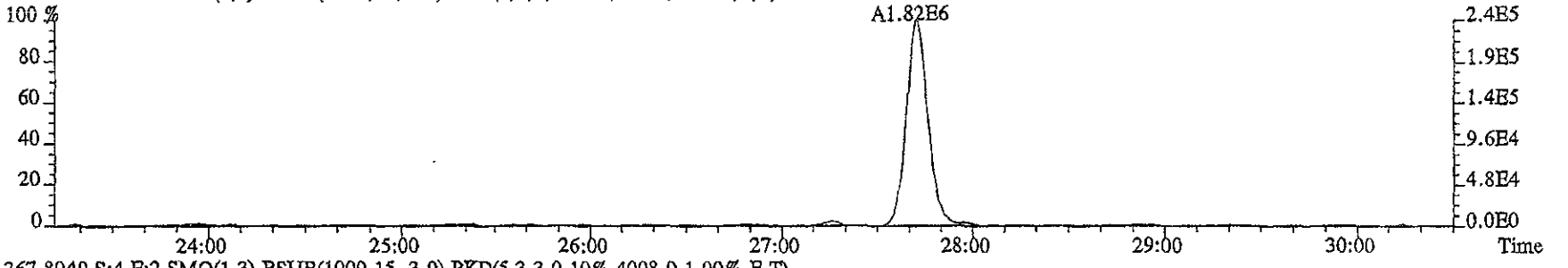


File:21JL10A4D5 #1-469 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES

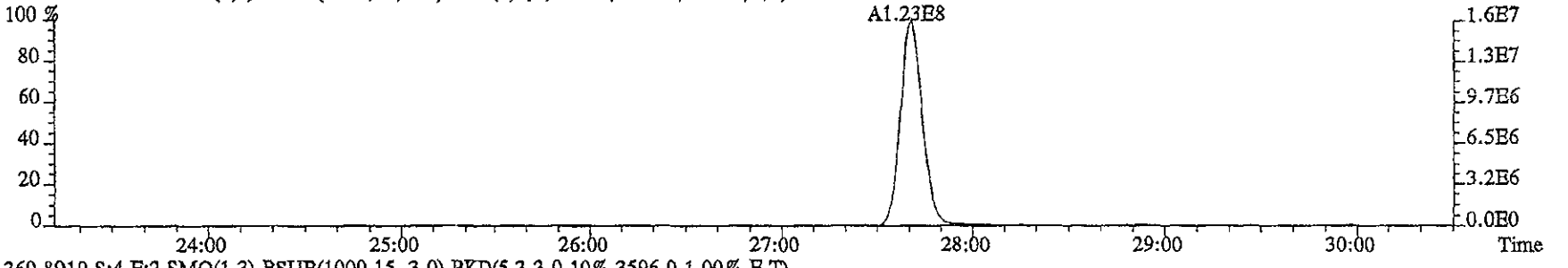
355.8546 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2312.0,1.00%,F,T)



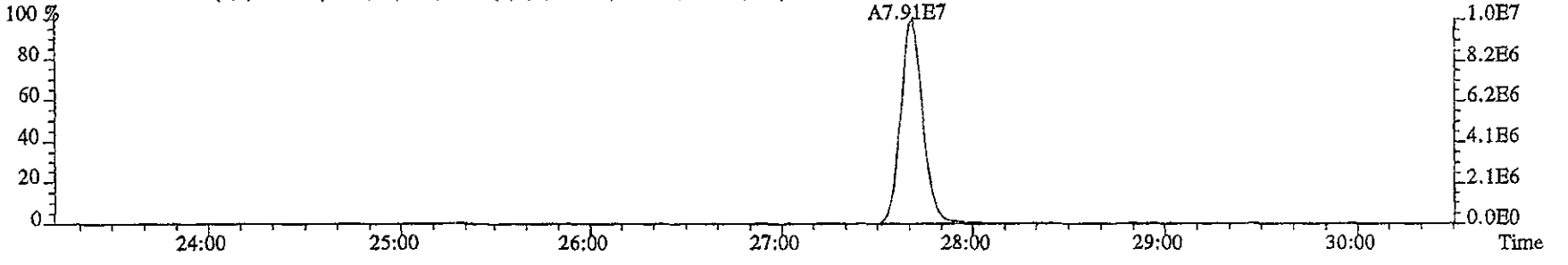
357.8516 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,828.0,1.00%,F,T)



367.8949 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4008.0,1.00%,F,T)

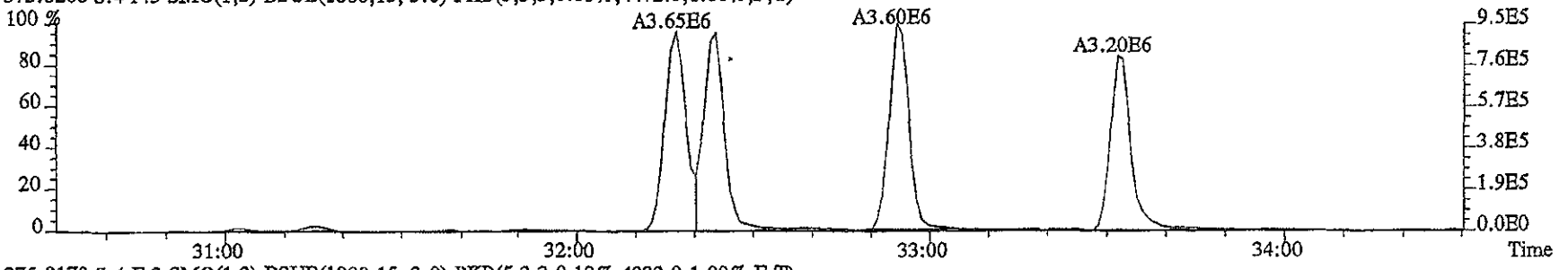


369.8919 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3596.0,1.00%,F,T)

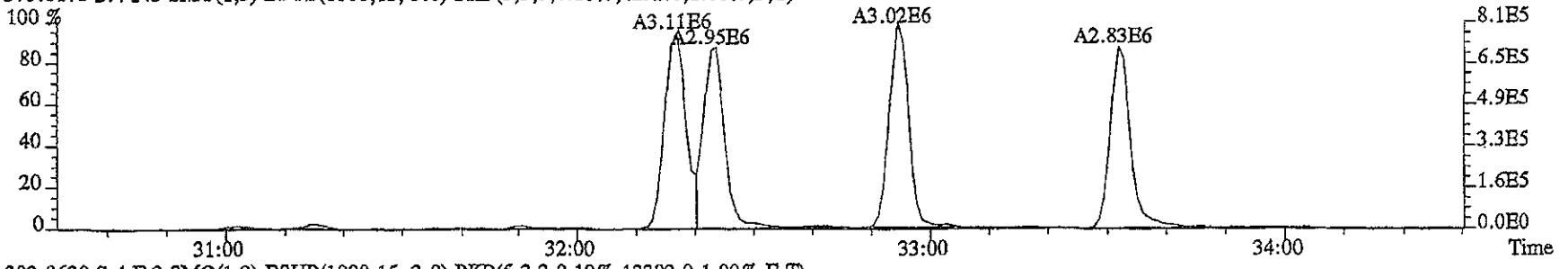


File:21JL10A4D5 #1-287 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES

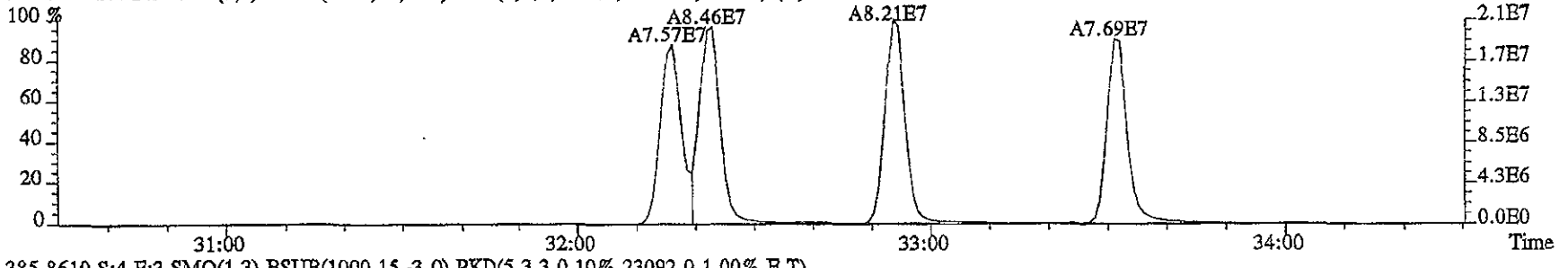
373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4472.0,1.00%,F,T)



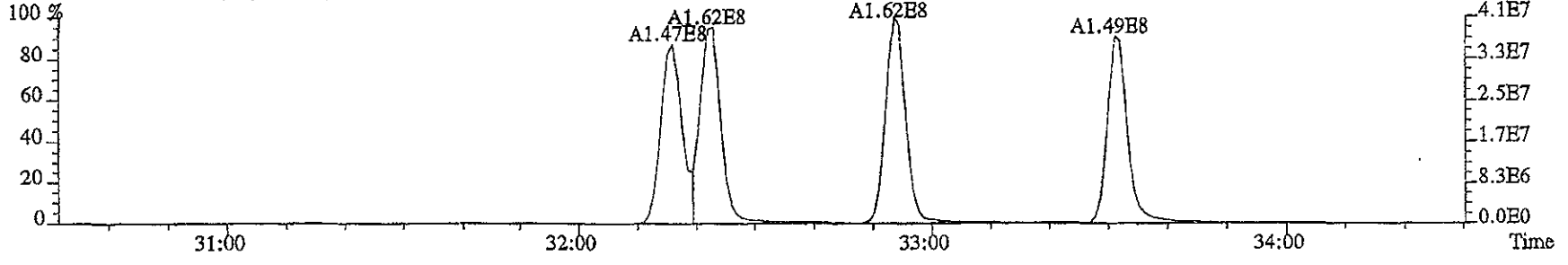
375.8178 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4232.0,1.00%,F,T)



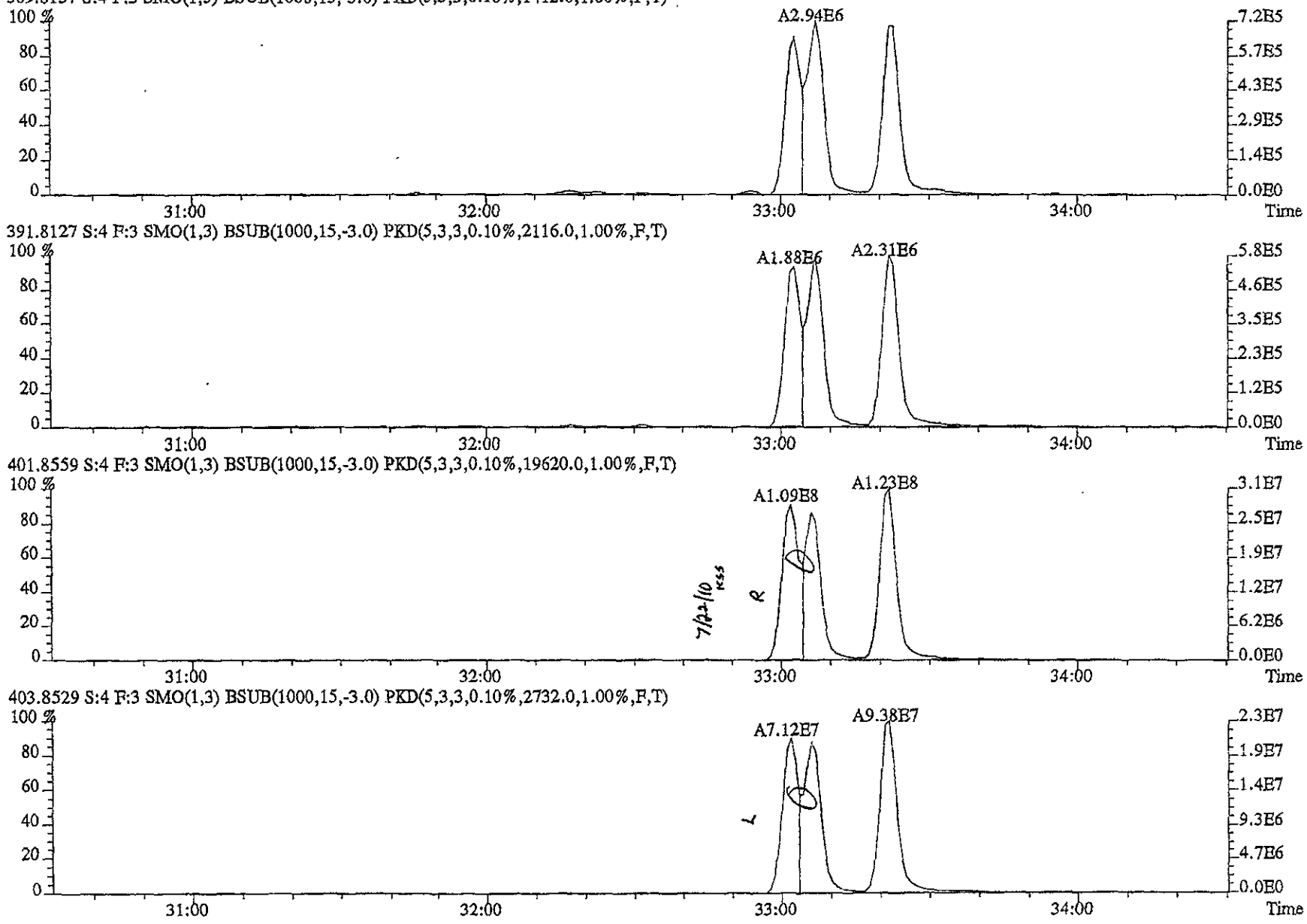
383.8639 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13392.0,1.00%,F,T)

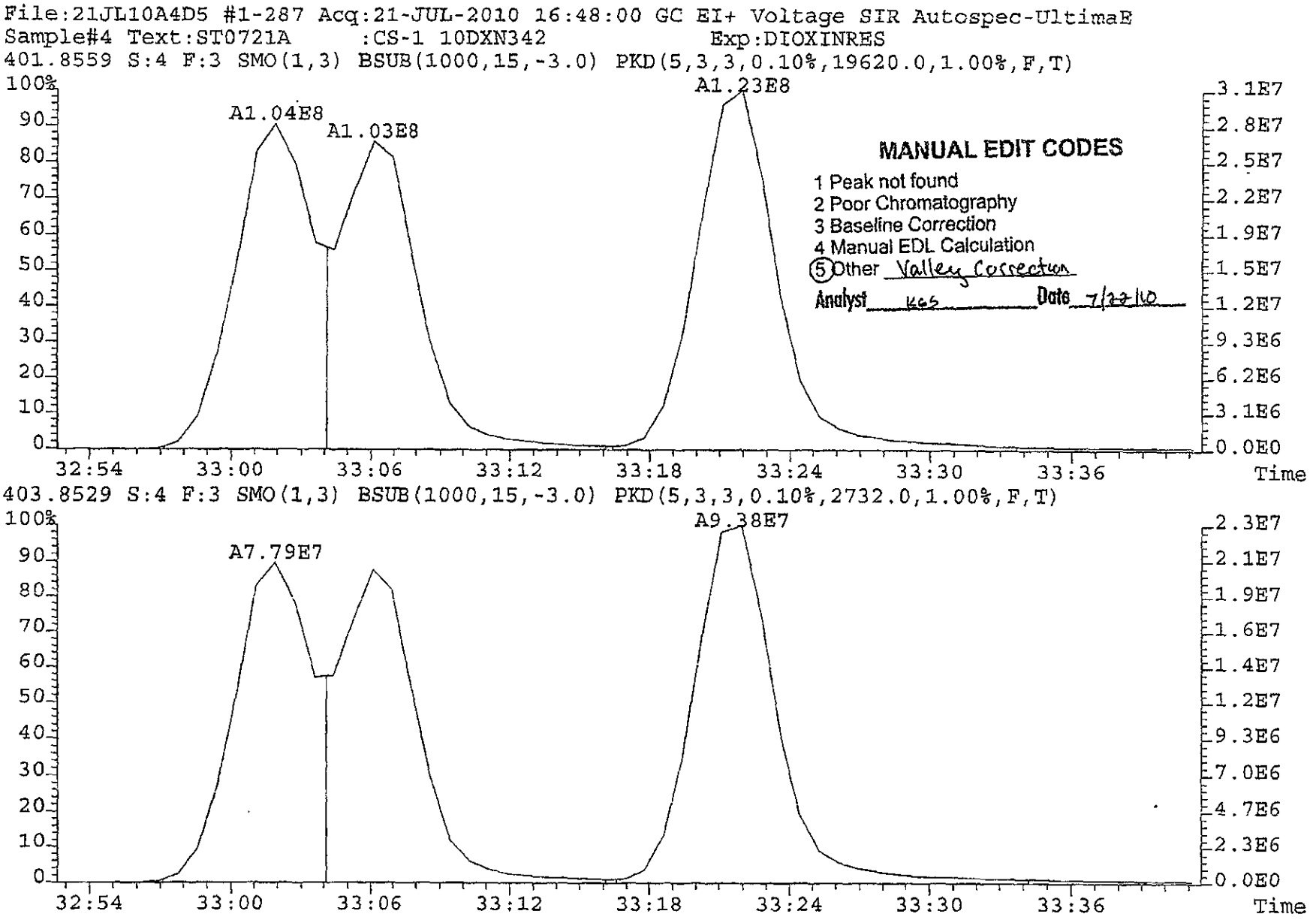


385.8610 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23092.0,1.00%,F,T)

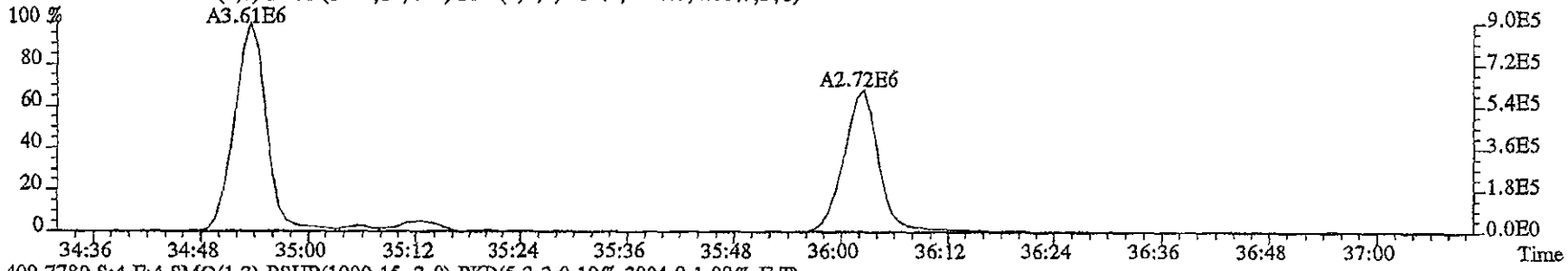


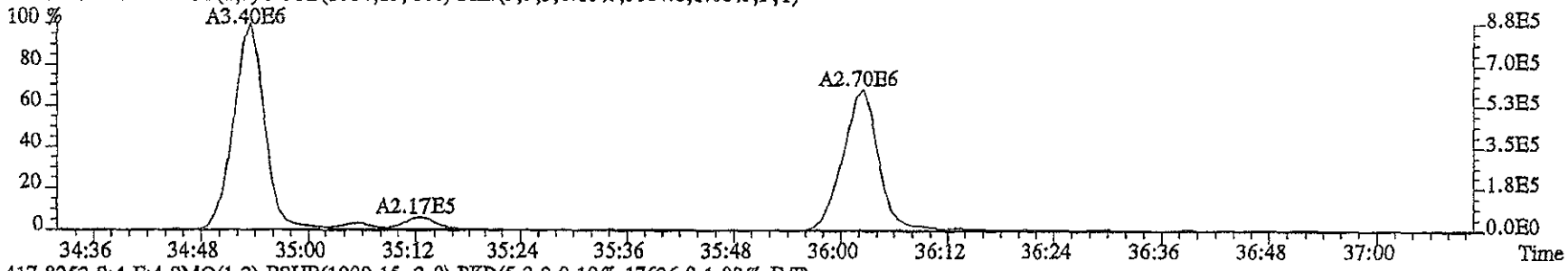
File:21JL10A4D5 #1-287 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES

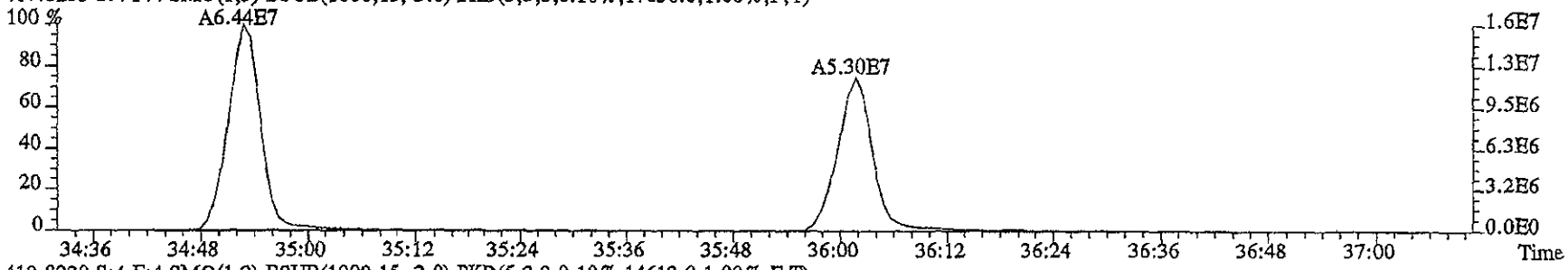


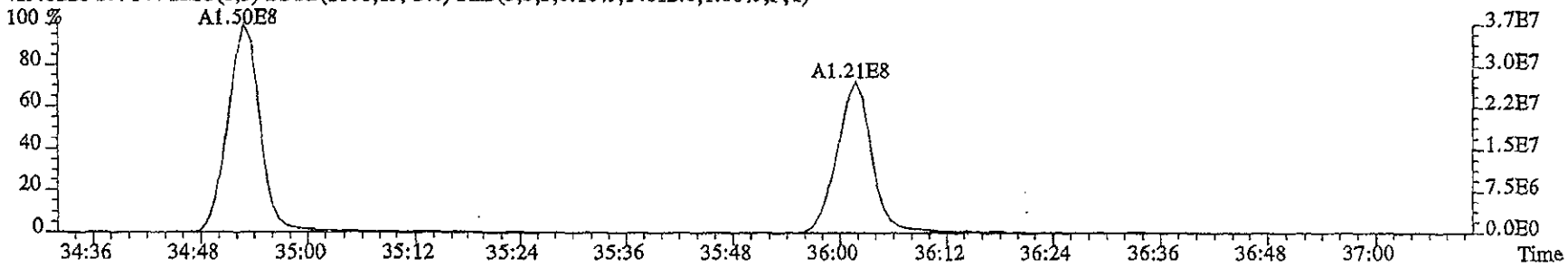

File:21JL10A4D5 #1-287 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES
401.8559 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19620.0,1.00%,F,T)
A1.04E8
A1.03E8
A1.23E8
MANUAL EDIT CODES
1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
5 Other Valley Correction
Analyst KGS Date 7/22/10
403.8529 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2732.0,1.00%,F,T)
A7.79E7
A9.38E7
32:54
33:00
33:06
33:12
33:18
33:24
33:30
33:36
Time

File:21JL10A4D5 #1-201 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES

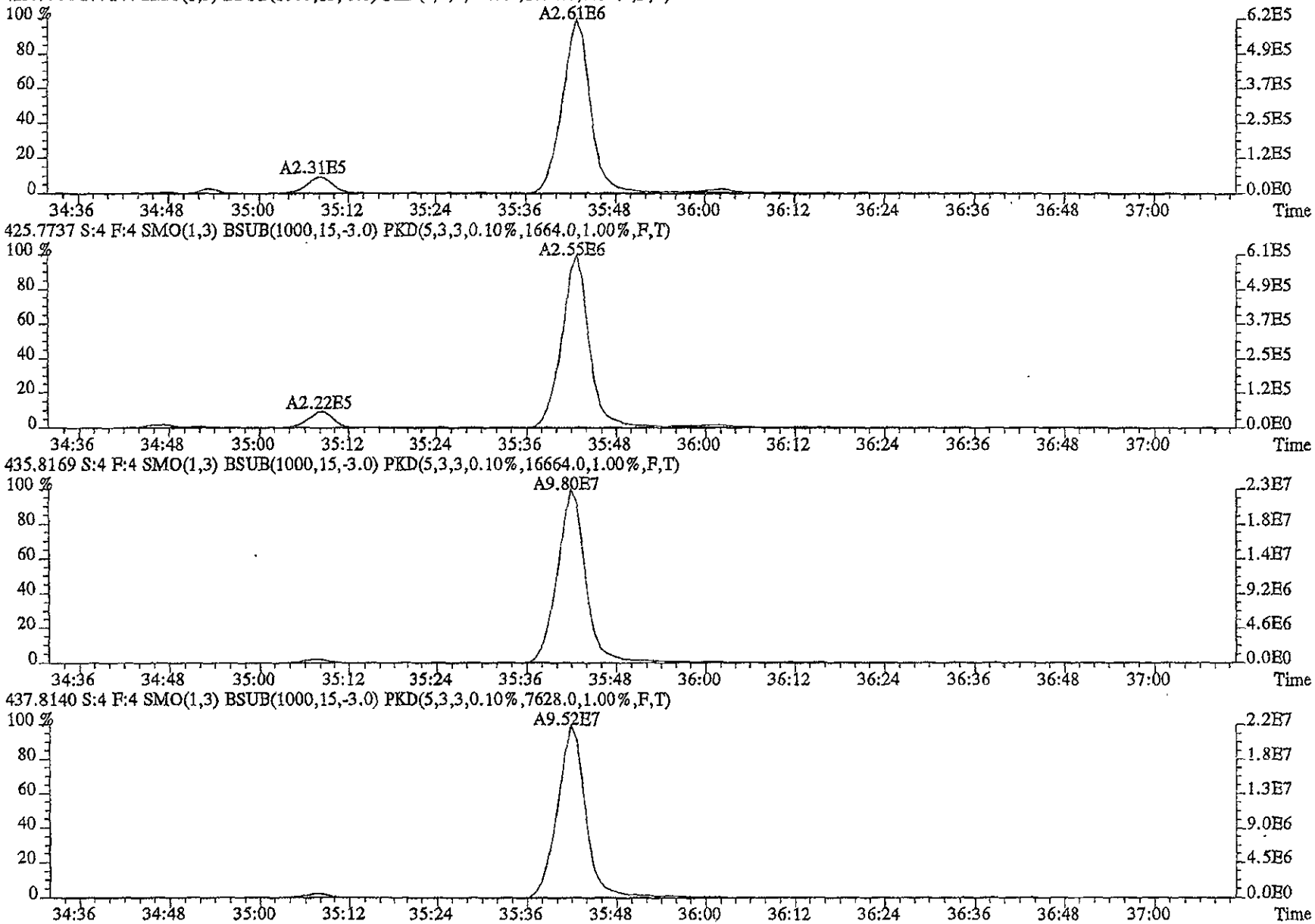




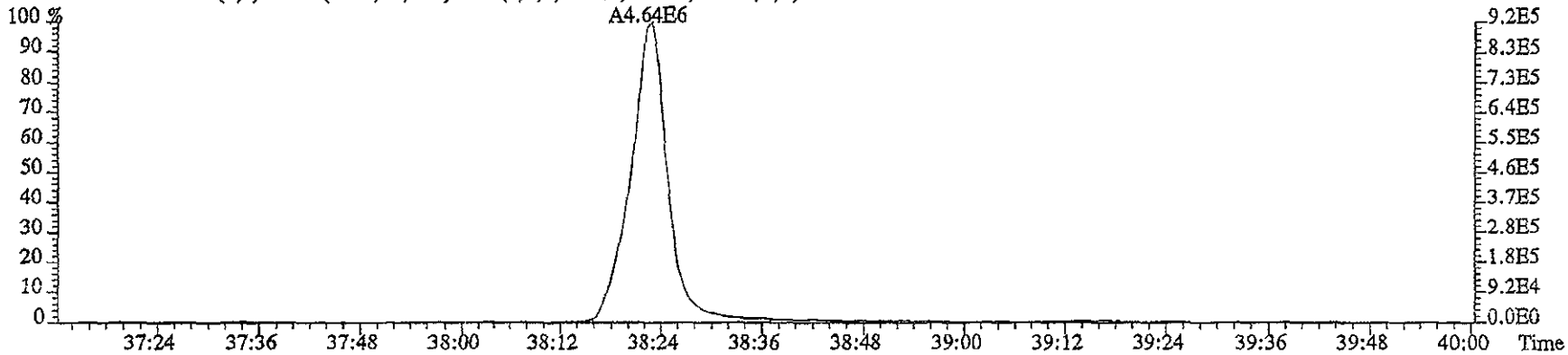




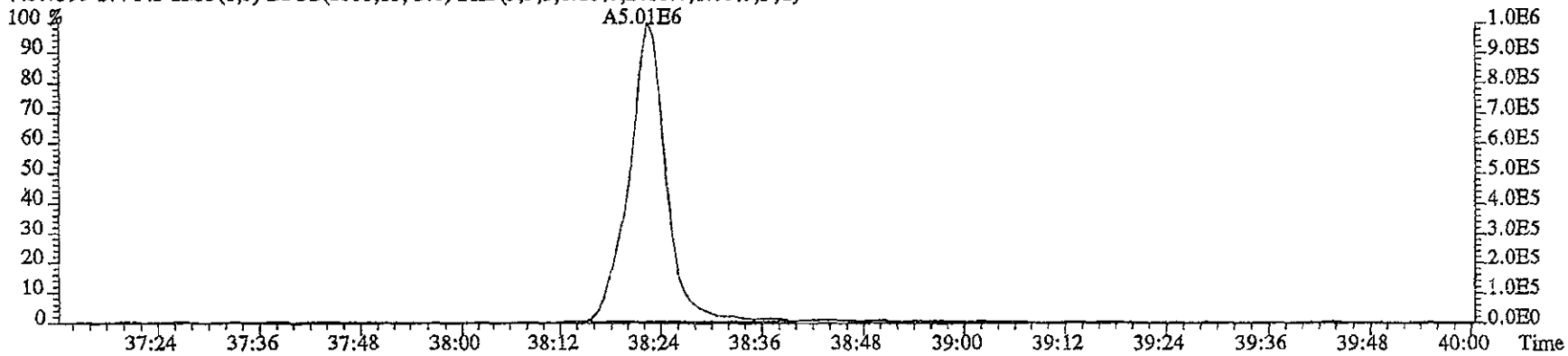
File:21JL10A4D5 #1-201 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES



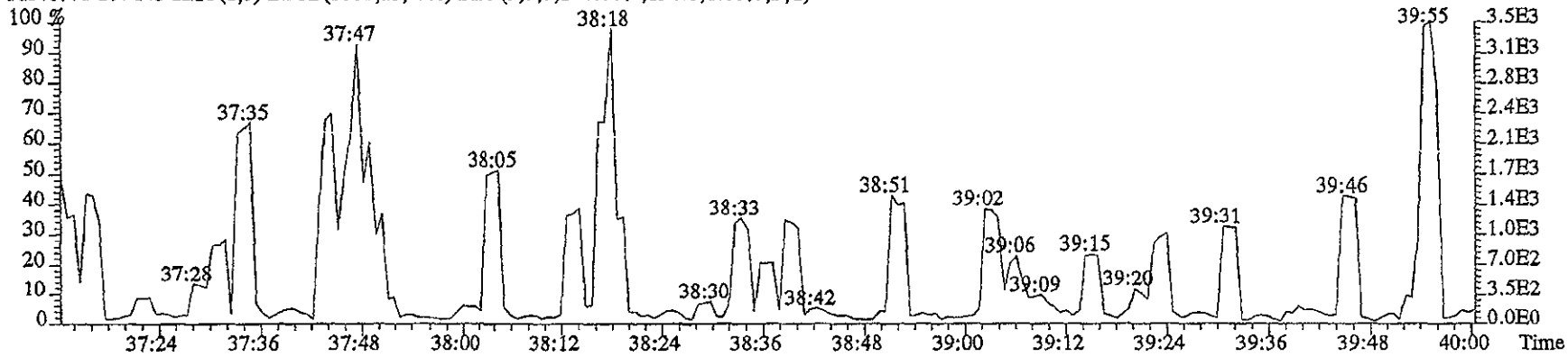
File:21JL10A4D5 #1-227 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES
441.7428 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2692.0,1.00%,F,T)



443.7399 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2680.0,1.00%,F,T)

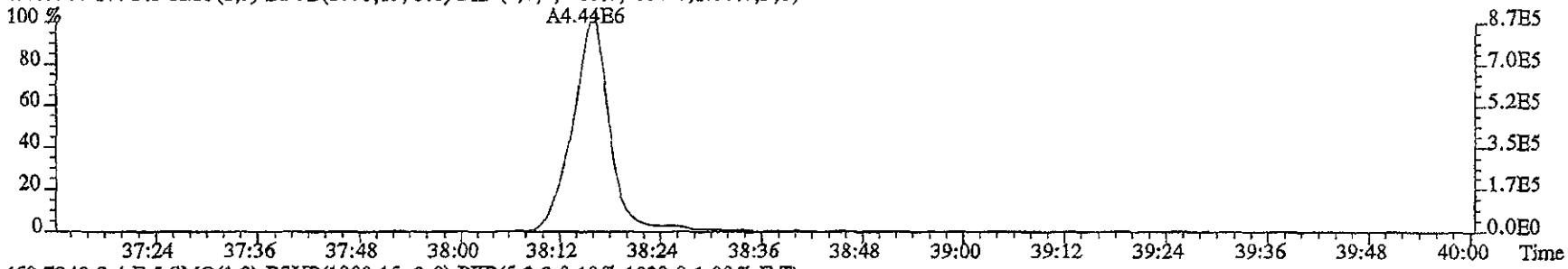


513.6775 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,124.0,1.00%,F,T)

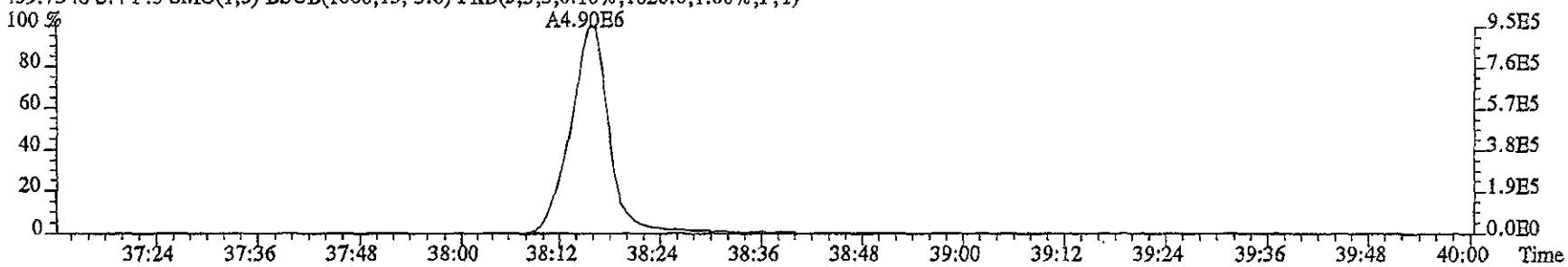


File:21JL10A4D5 #1-227 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES

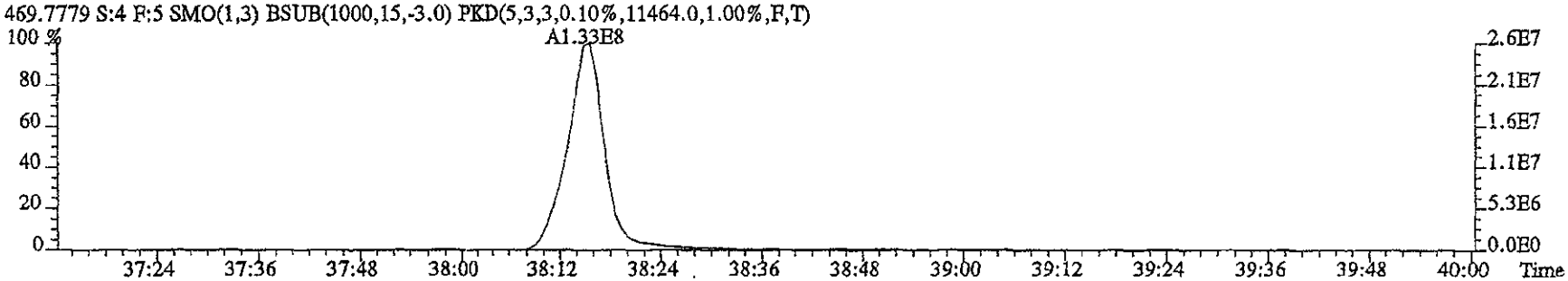
457.7377 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1336.0,1.00%,F,T)



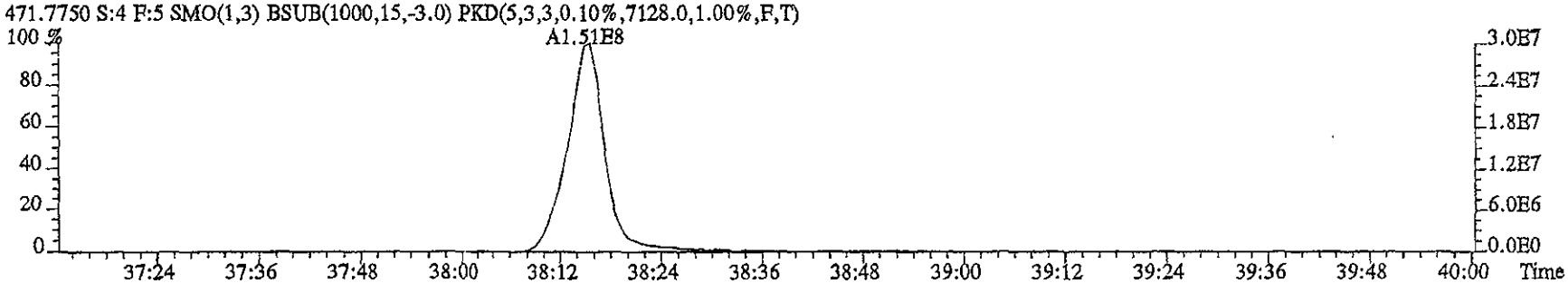
459.7348 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1820.0,1.00%,F,T)

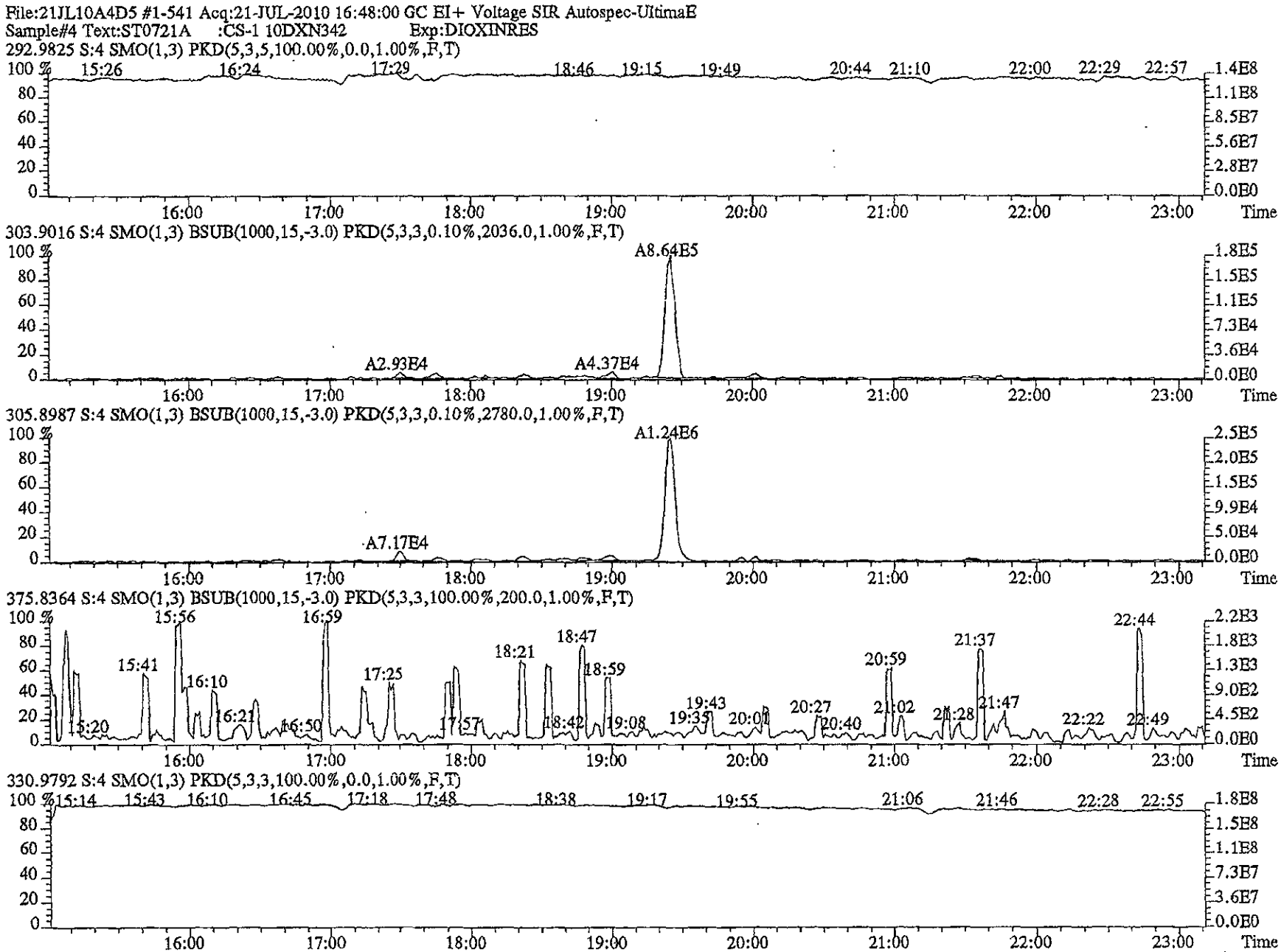


469.7779 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11464.0,1.00%,F,T)

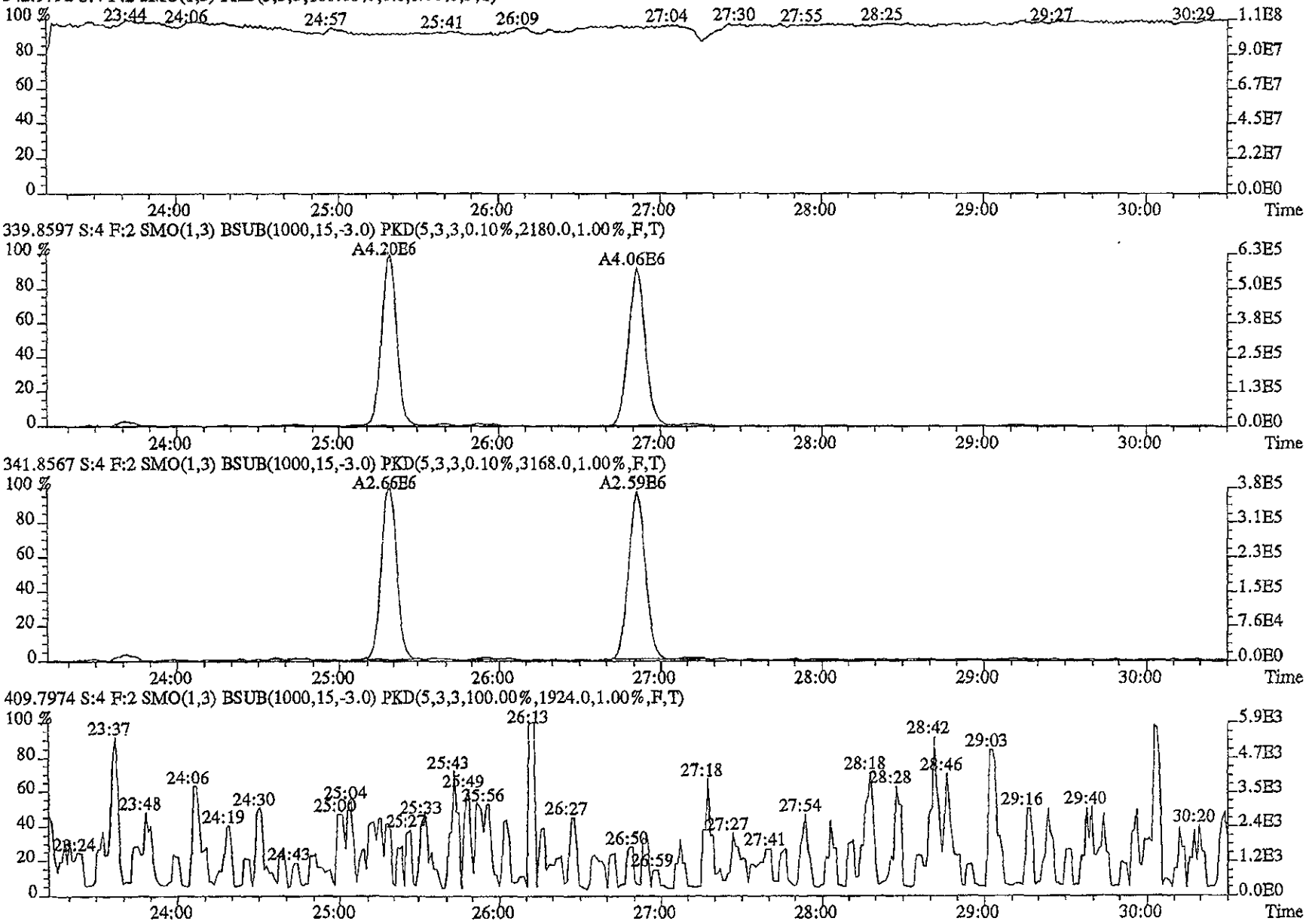


471.7750 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7128.0,1.00%,F,T)

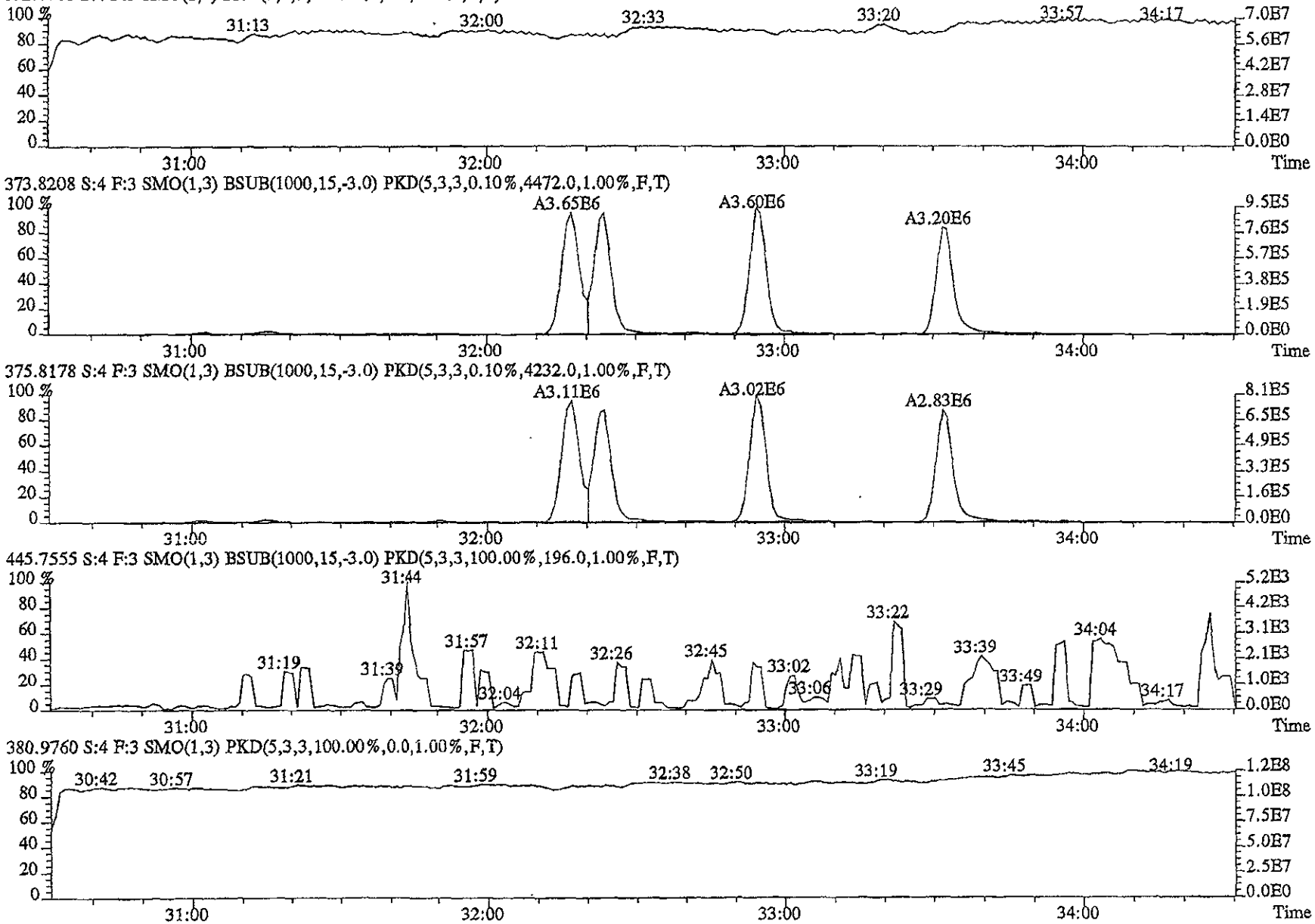



File:21JL10A4D5 #1-541 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES
292.9825 S:4 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)
303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2036.0,1.00%,F,T)
A8.64E5
A2.93E4
A4.37E4
305.8987 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2780.0,1.00%,F,T)
A1.24E6
A7.17E4
375.8364 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,200.0,1.00%,F,T)
330.9792 S:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
Time

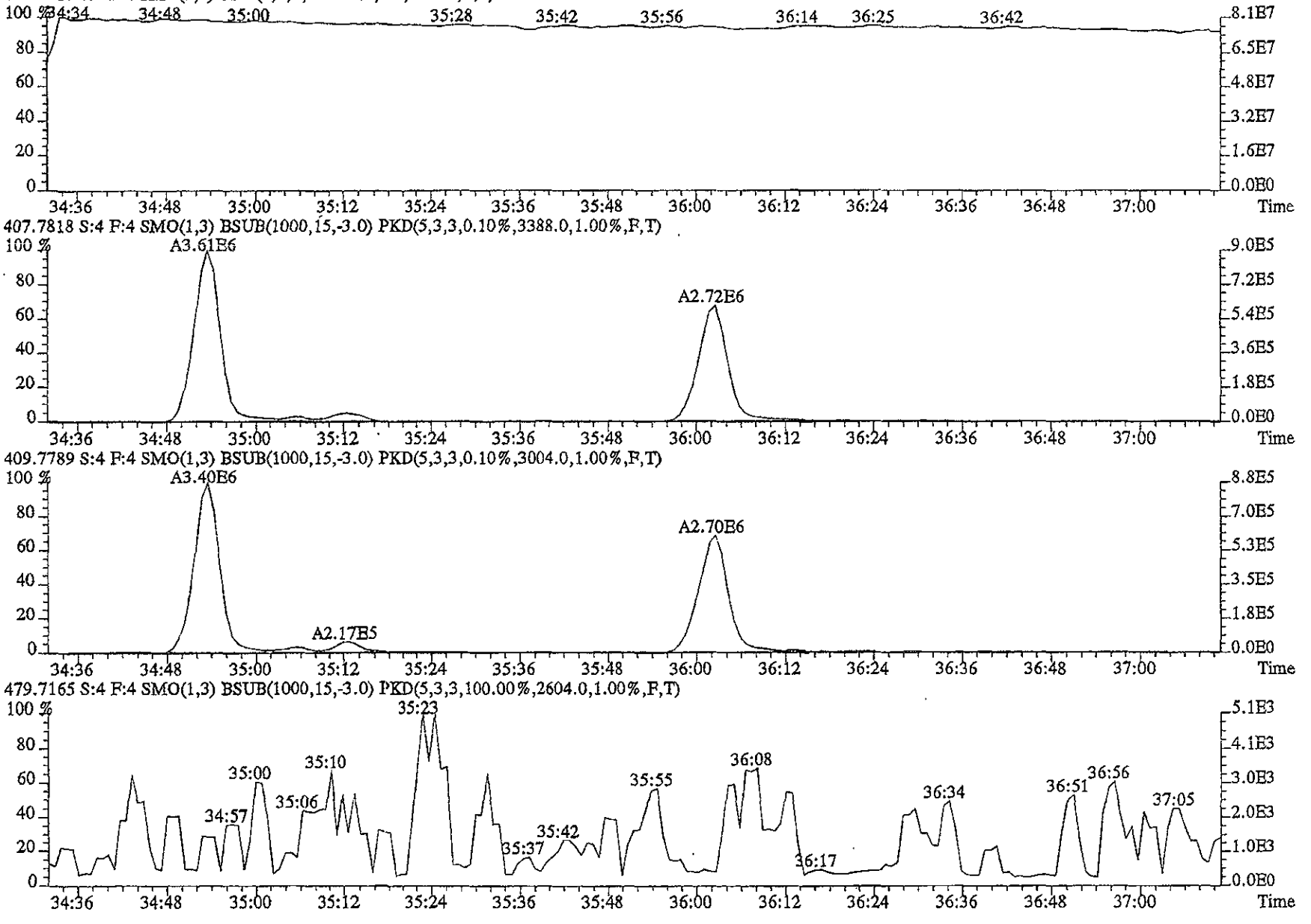
File:21JL10A4D5 #1-469 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES



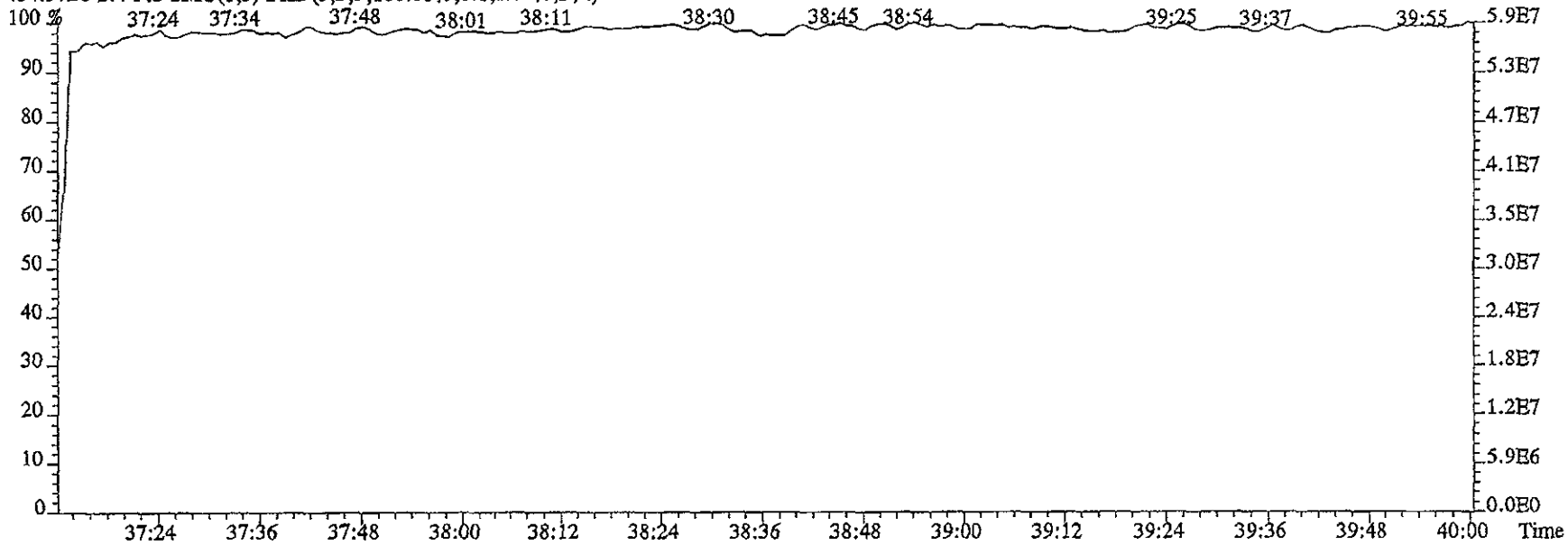
File:21JL10A4D5 #1-287 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES



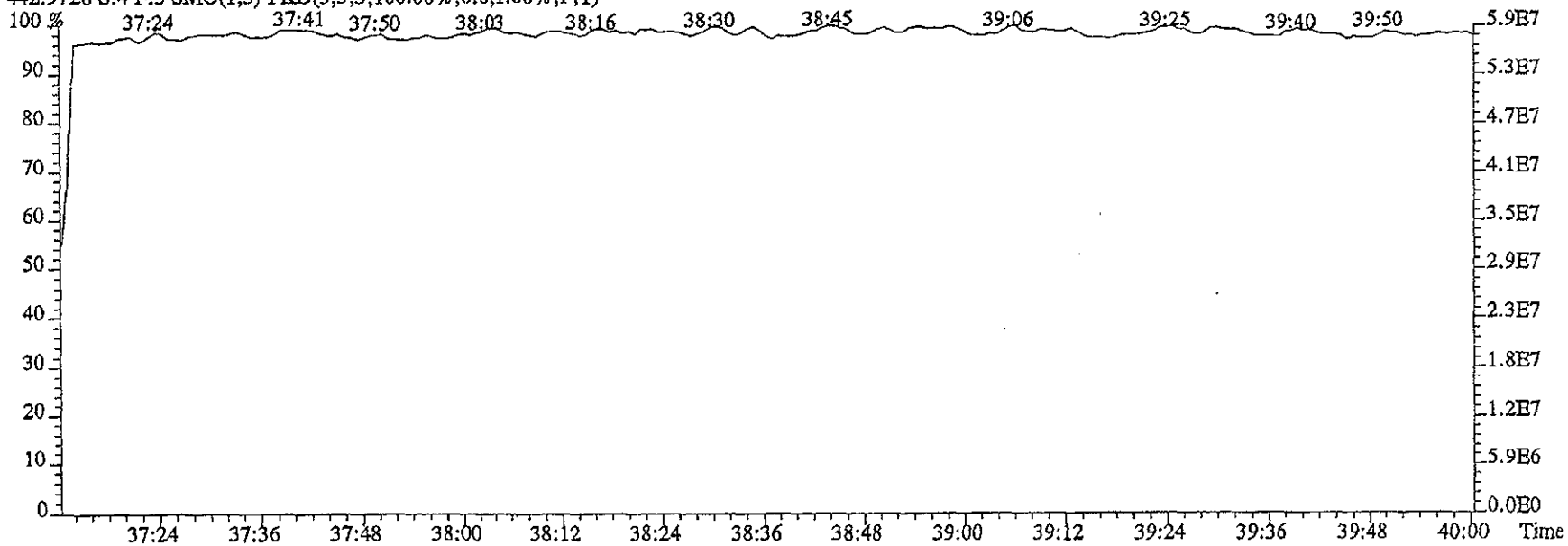
File:21JL10A4D5 #1-201 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES



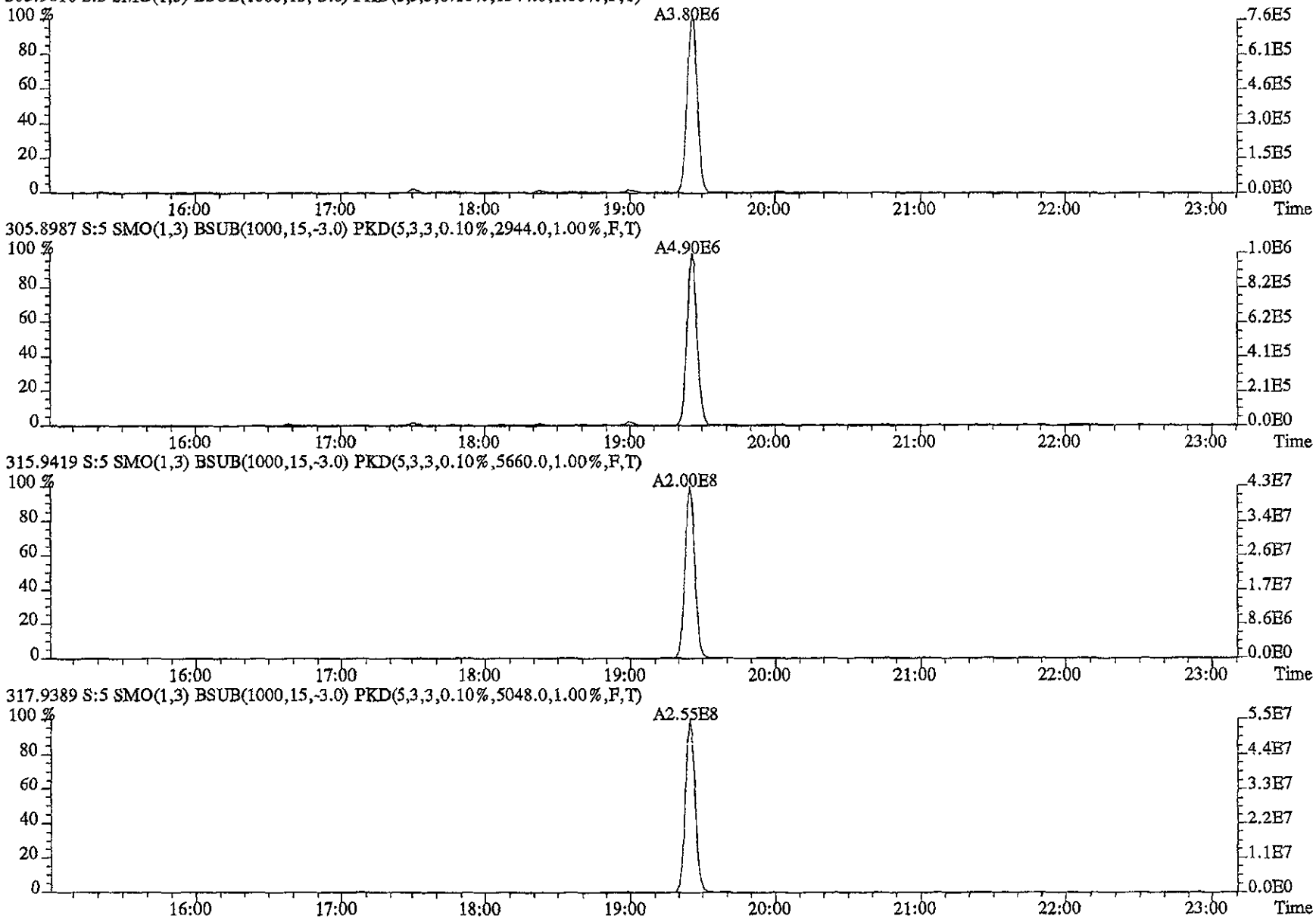
File:21JL10A4D5 #1-227 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES
454.9728 S:4 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



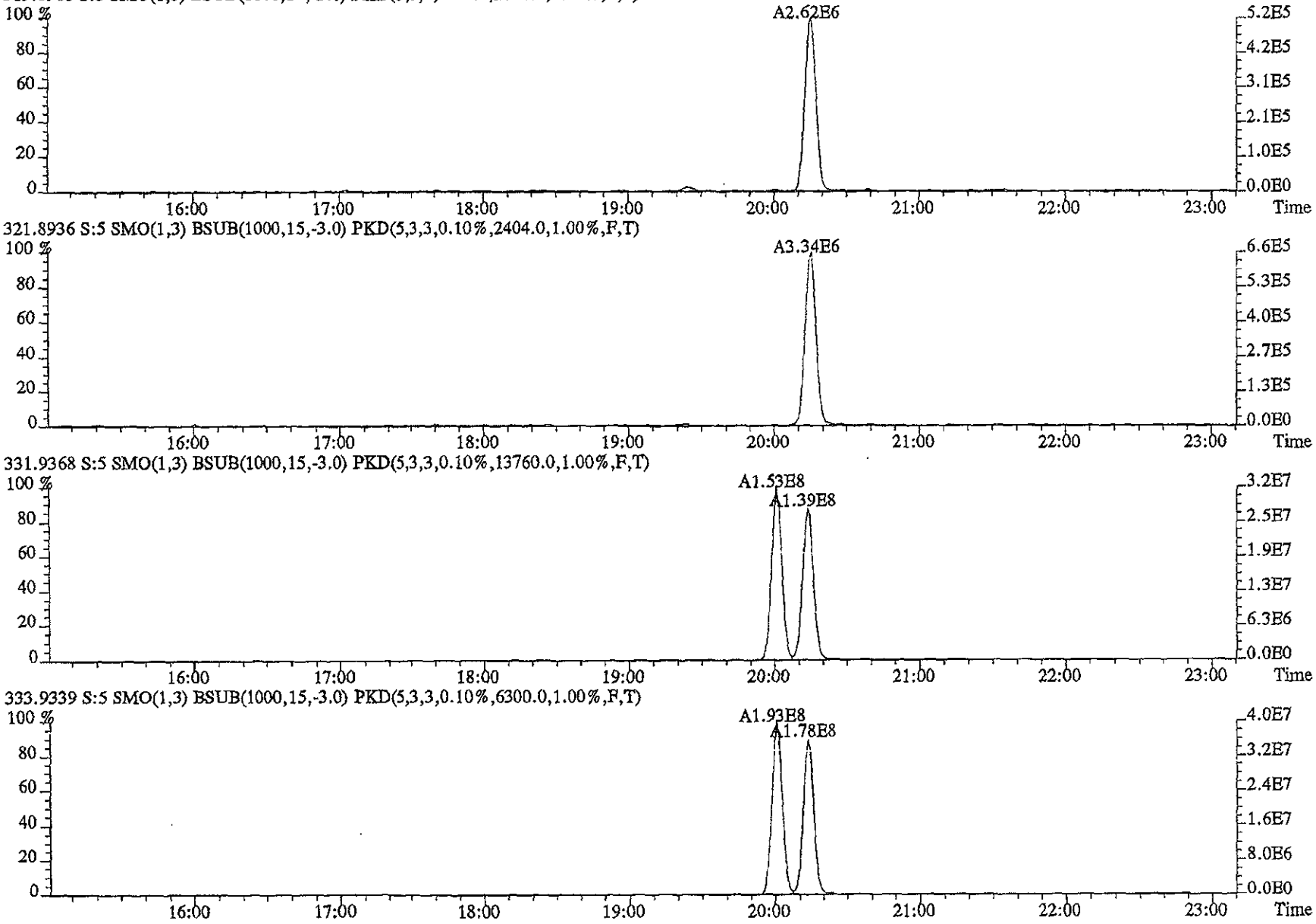
442.9728 S:4 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



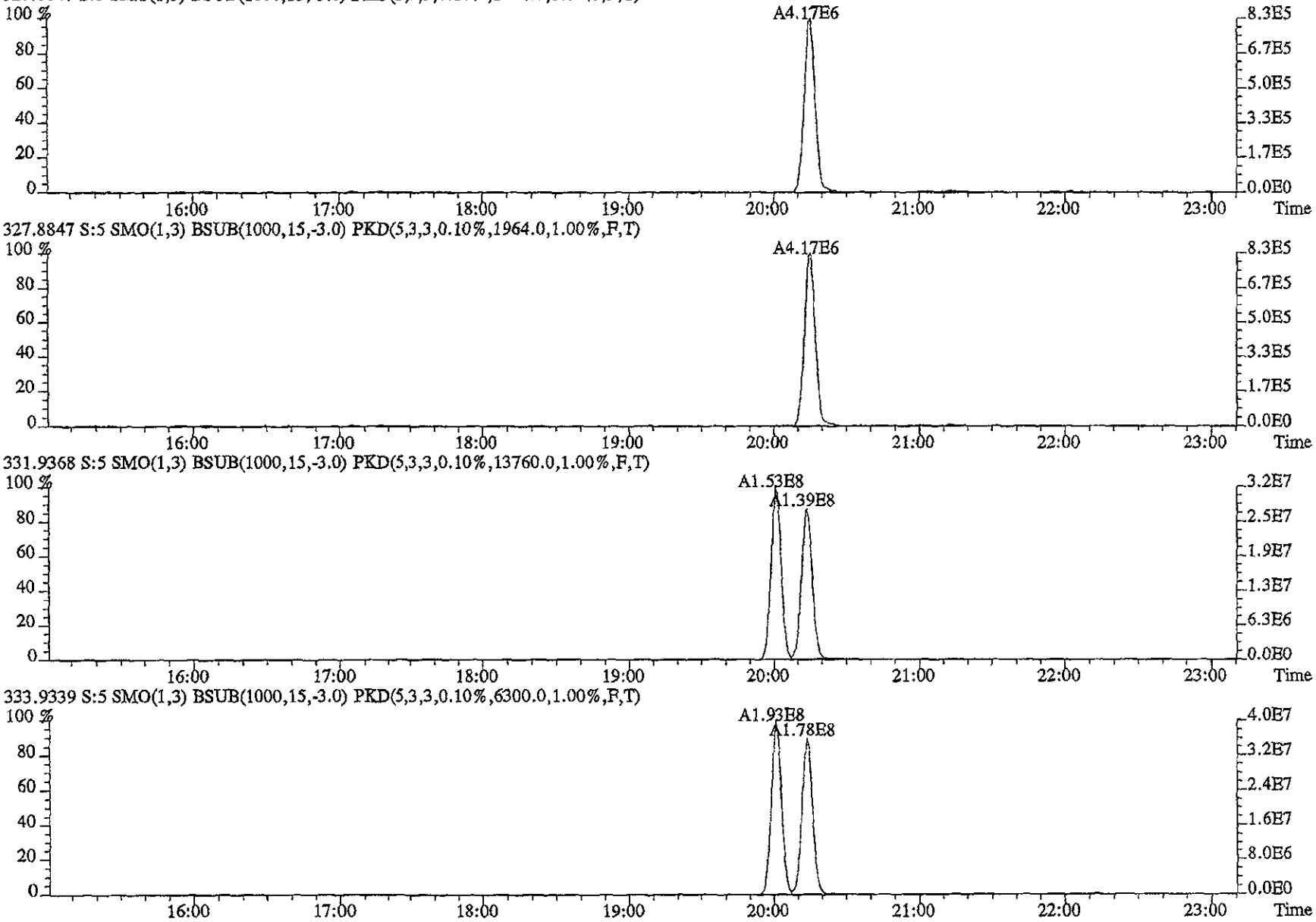
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES



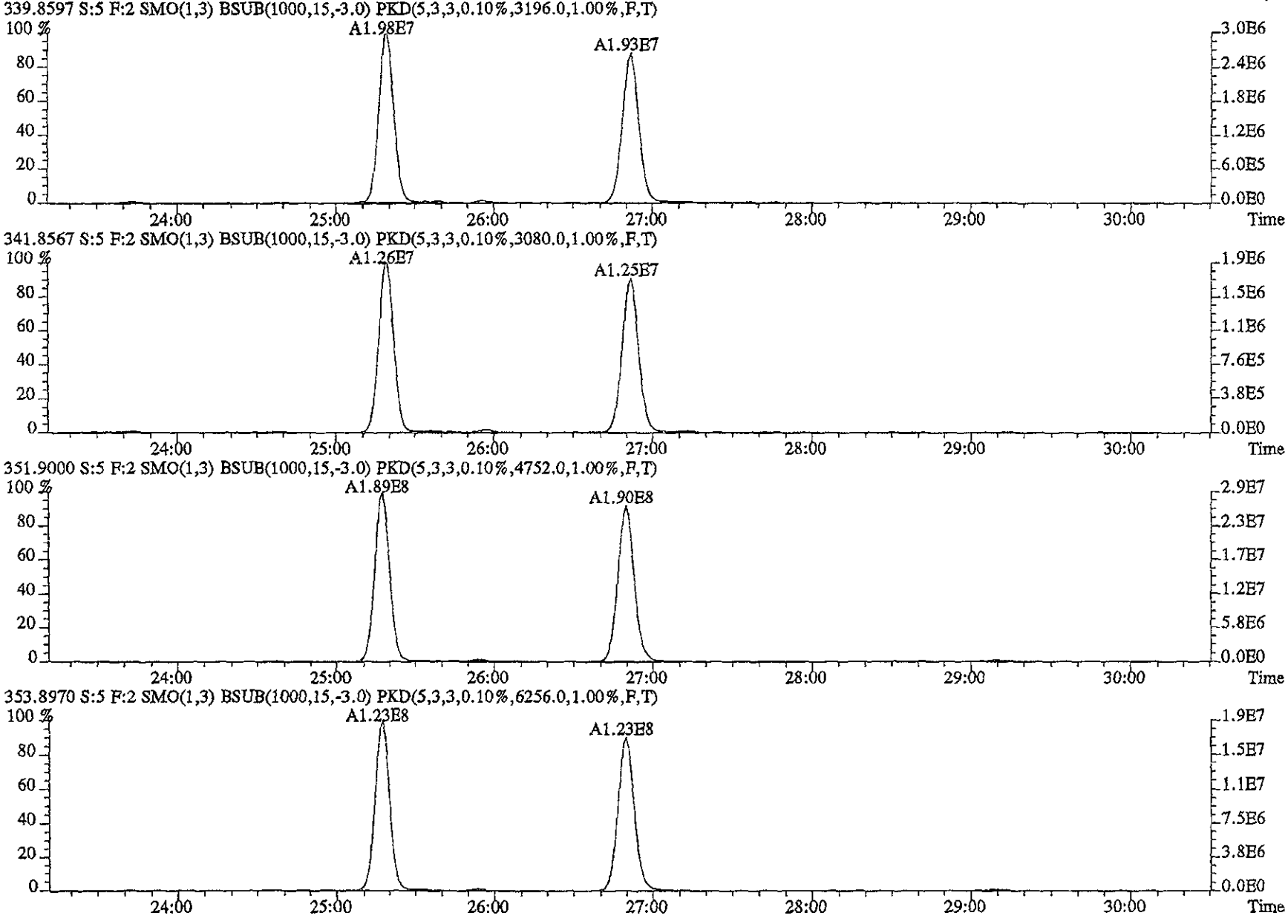
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES



File:21JL10A4D5 #1-541 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES

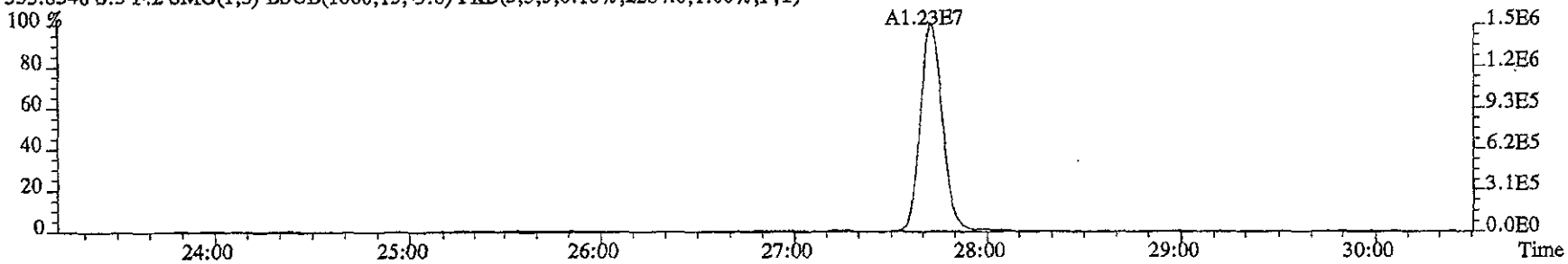


File:21JL10A4D5 #1-470 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES

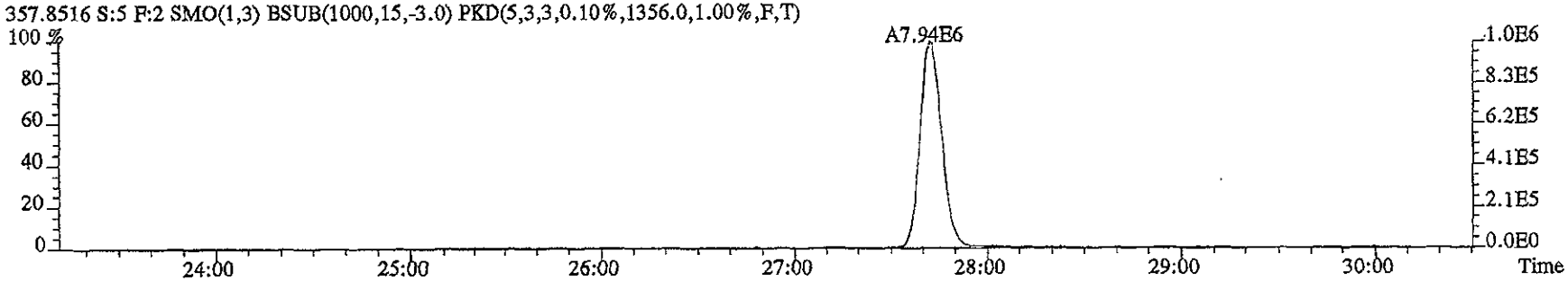


File:21JL10A4D5 #1-470 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES

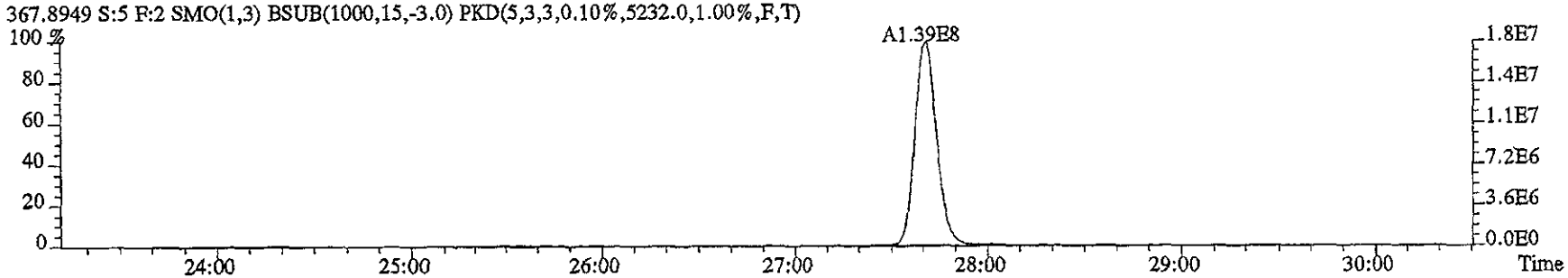
355.8546 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2284.0,1.00%,F,T)



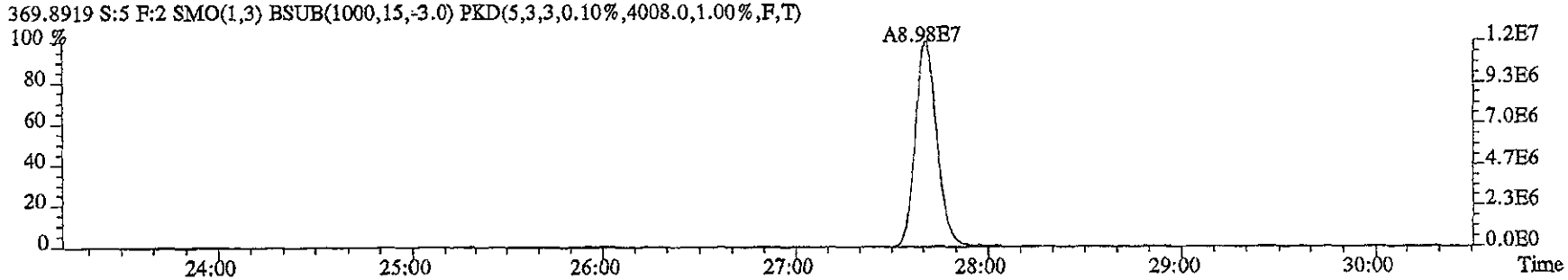
357.8516 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1356.0,1.00%,F,T)



367.8949 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5232.0,1.00%,F,T)

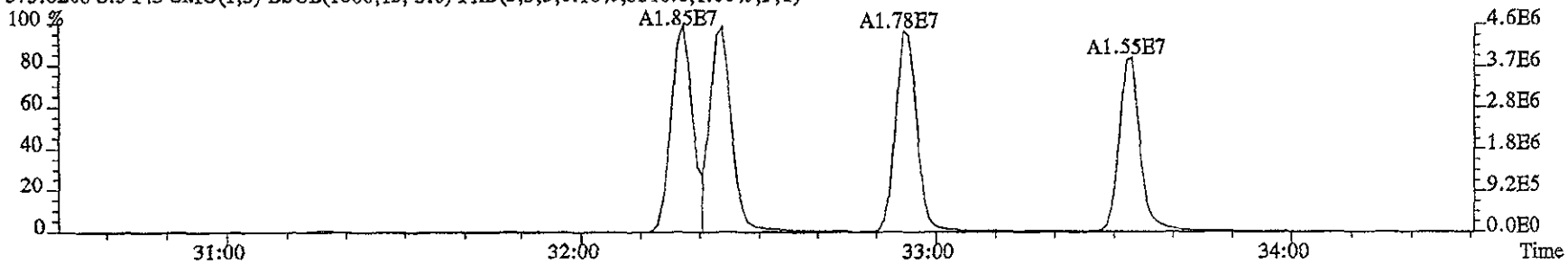


369.8919 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4008.0,1.00%,F,T)

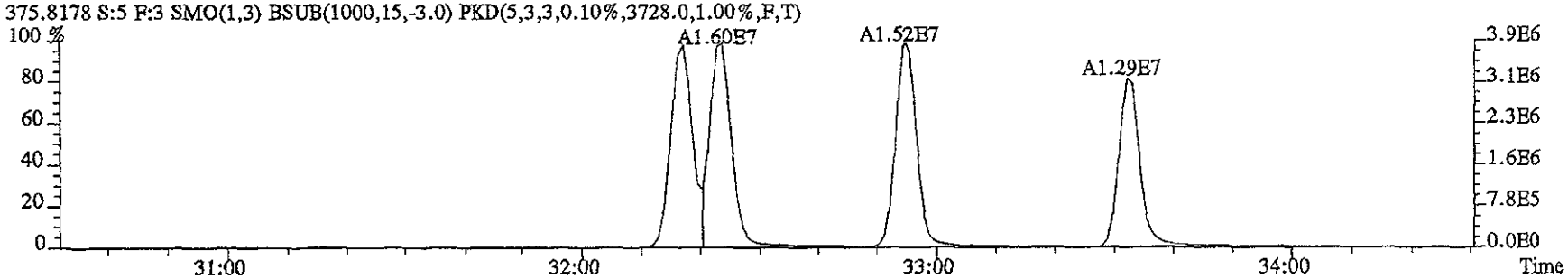


File:21JL10A4D5 #1-287 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES

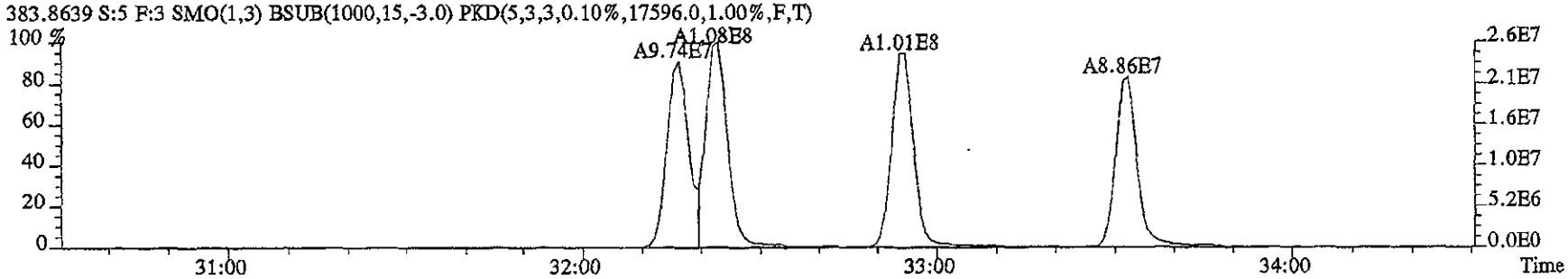
373.8208 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3516.0,1.00%,F,T)



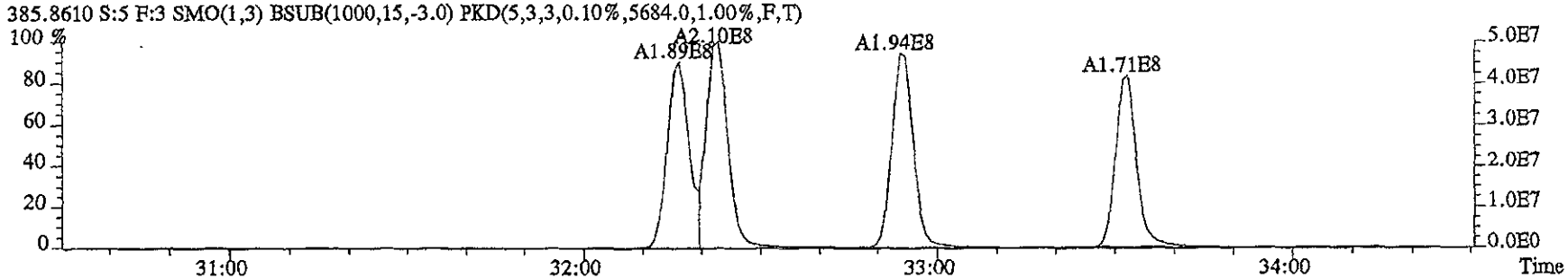
375.8178 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3728.0,1.00%,F,T)



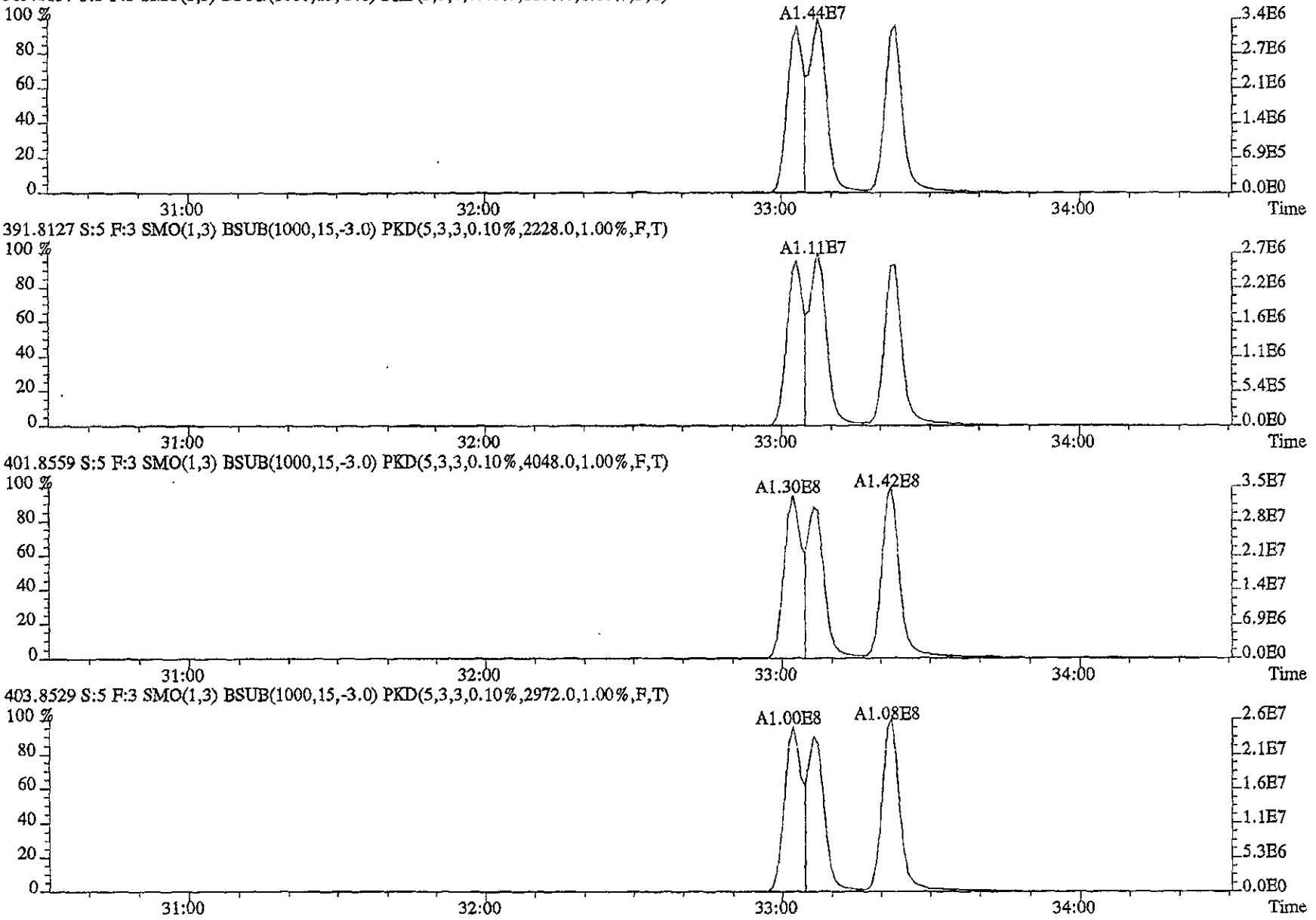
383.8639 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17596.0,1.00%,F,T)



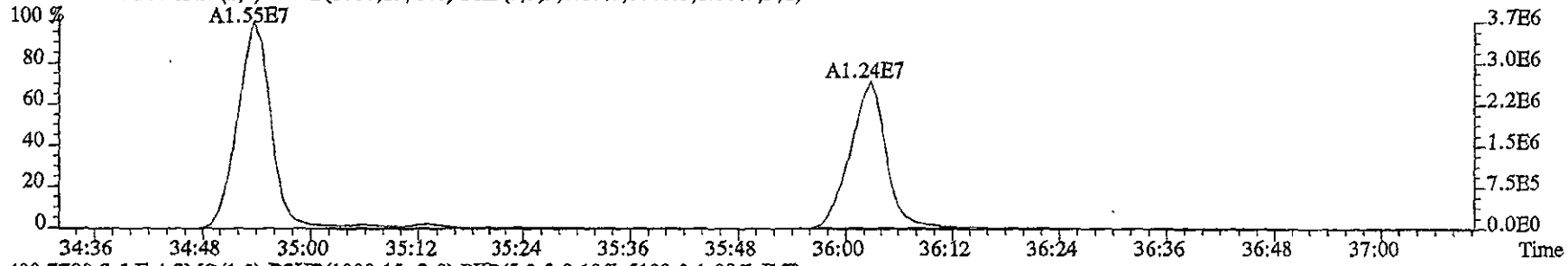
385.8610 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5684.0,1.00%,F,T)



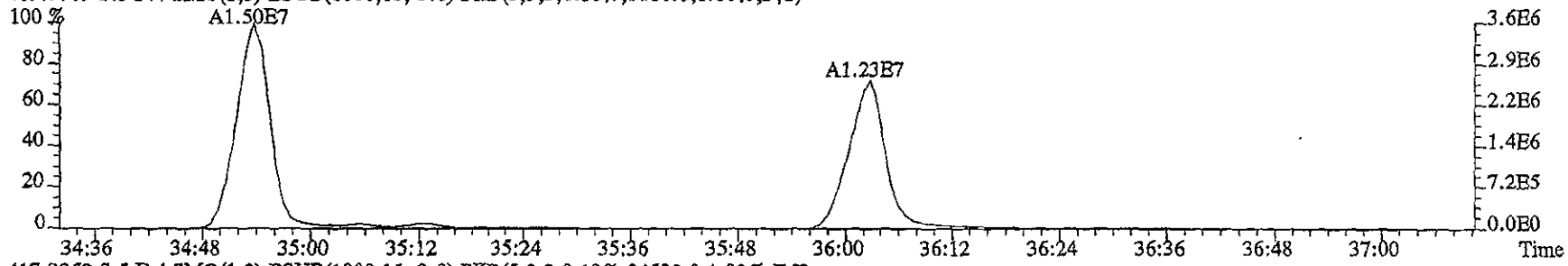
File:21JL10A4D5 #1-287 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES



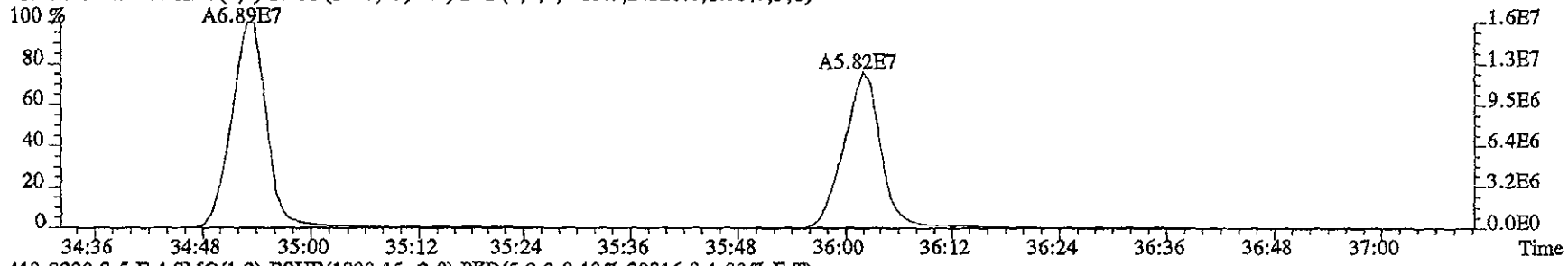
File:21JL10A4D5 #1-200 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES
407.7818 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8040.0,1.00%,F,T)



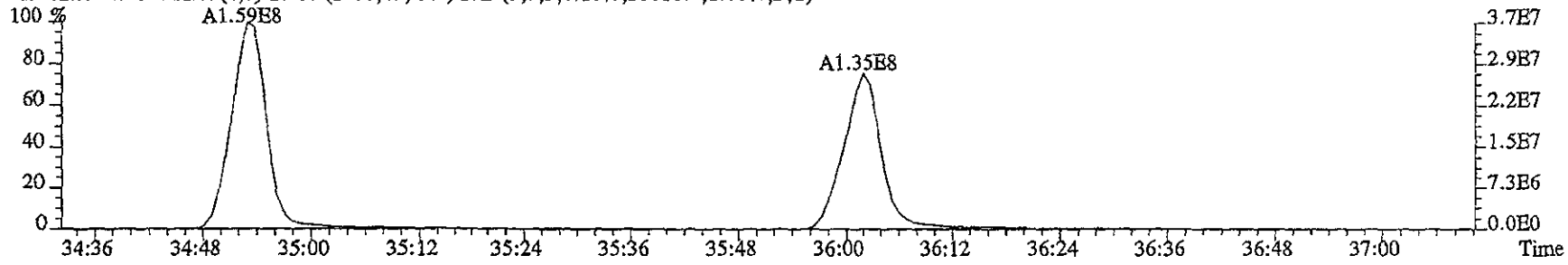
409.7789 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5100.0,1.00%,F,T)



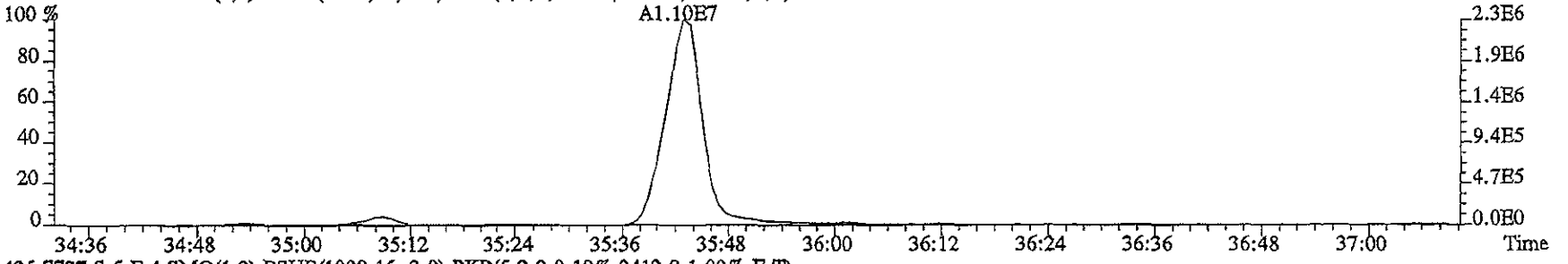
417.8253 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24520.0,1.00%,F,T)



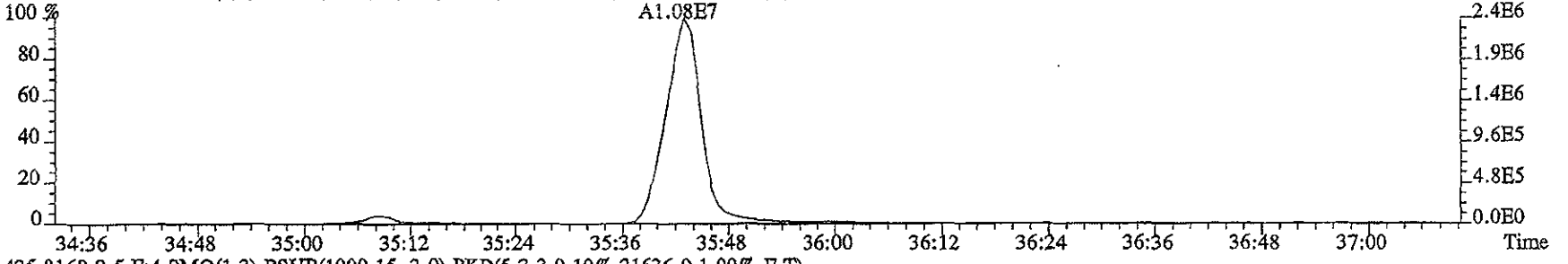
419.8220 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,28816.0,1.00%,F,T)



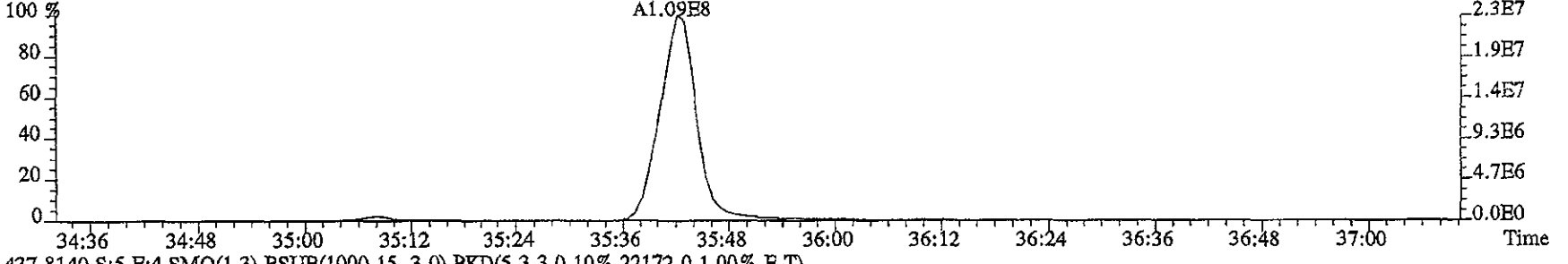
File:21JL10A4D5 #1-200 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES
423.7766 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3164.0,1.00%,F,T)



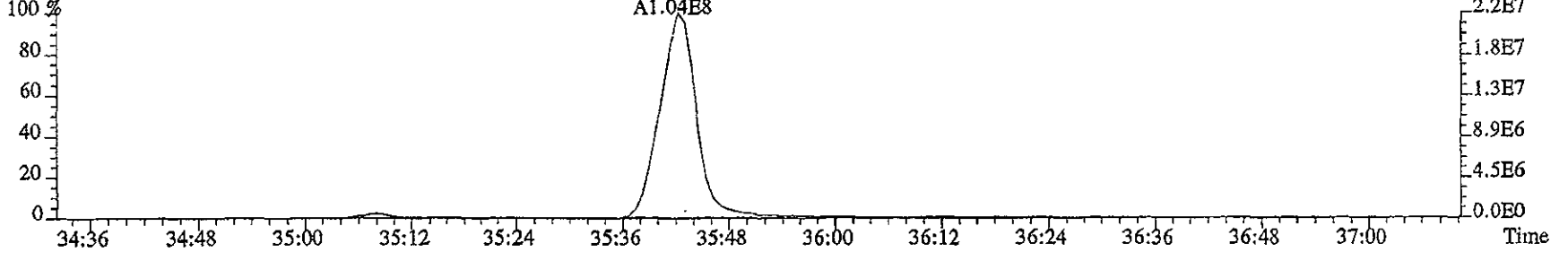
425.7737 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3412.0,1.00%,F,T)



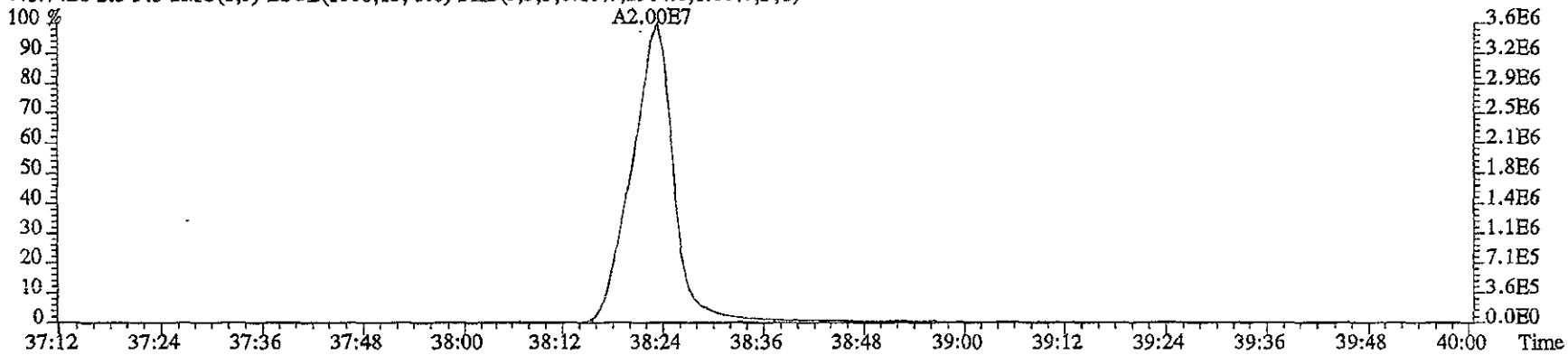
435.8169 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21636.0,1.00%,F,T)



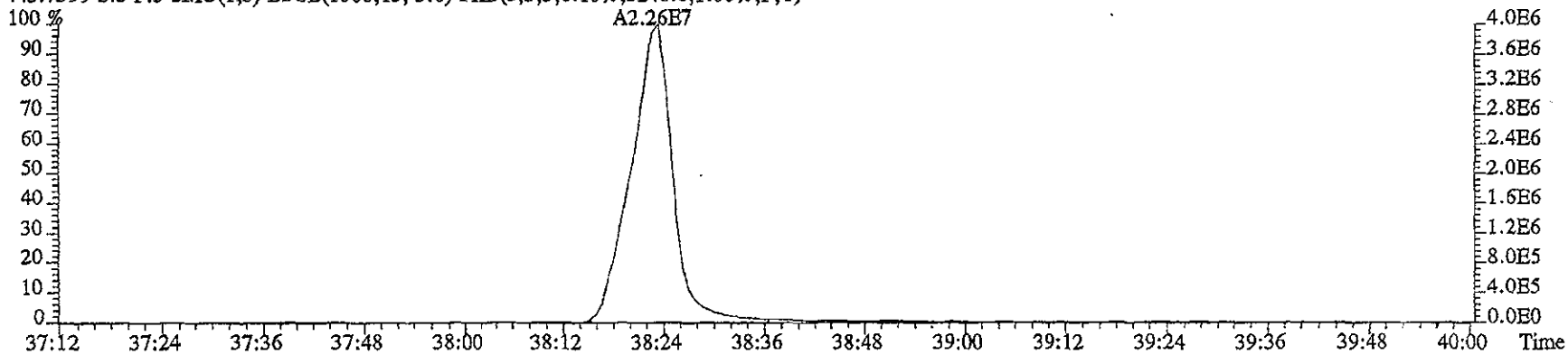
437.8140 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22172.0,1.00%,F,T)



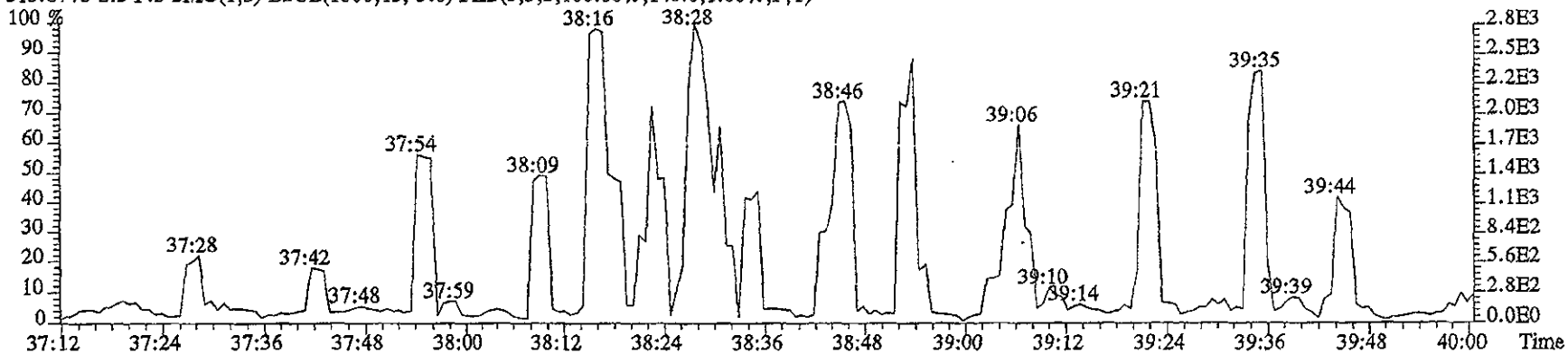
File:21JL10A4D5 #1-228 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES
441.7428 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2904.0,1.00%,F,T)



443.7399 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3248.0,1.00%,F,T)

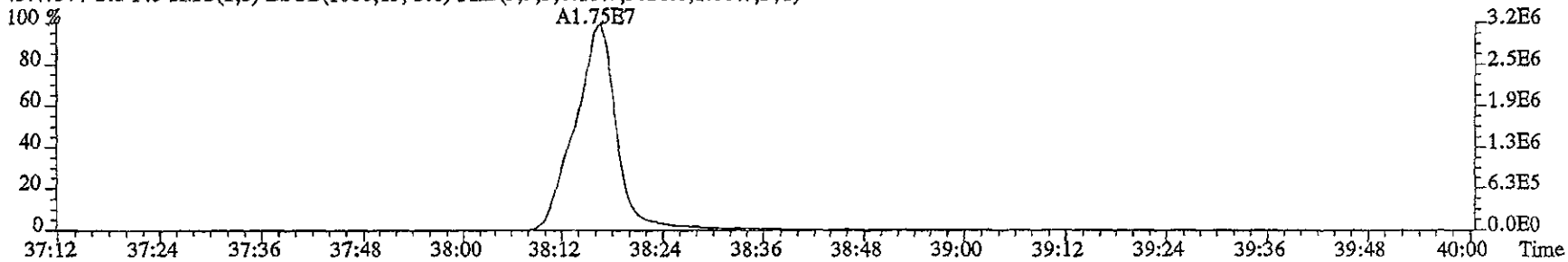


513.6775 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,140.0,1.00%,F,T)

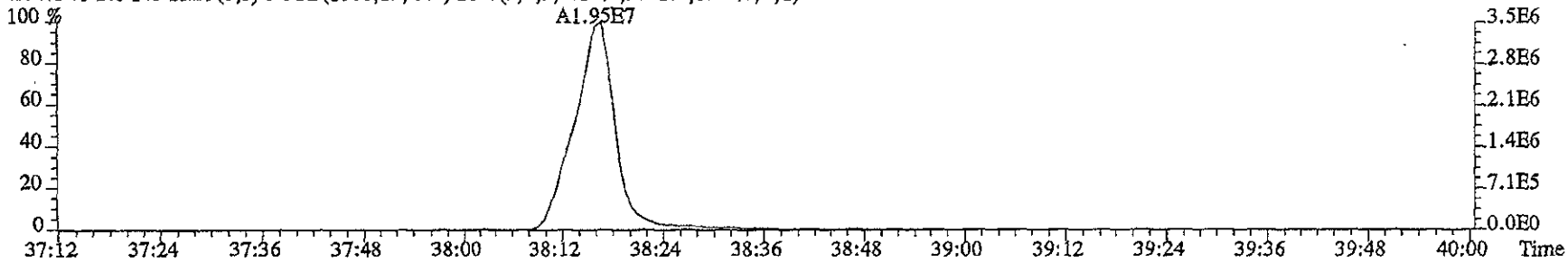


File:21JL10A4D5 #1-228 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES

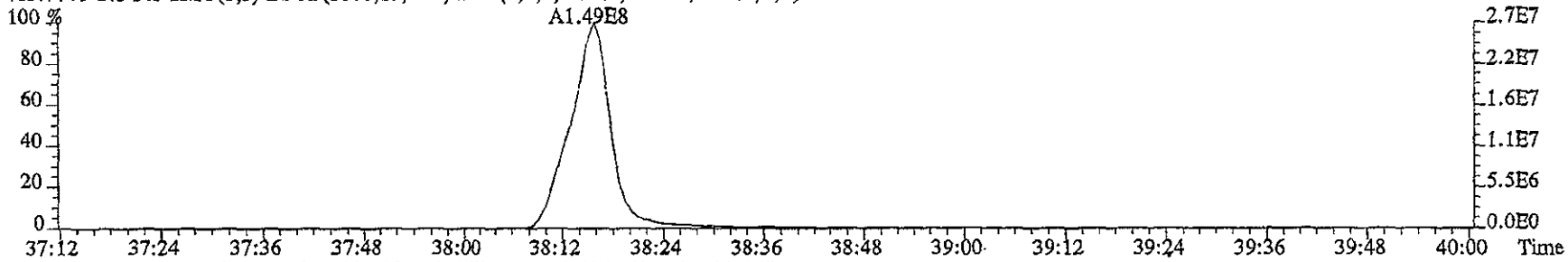
457.7377 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3728.0,1.00%,F,T)



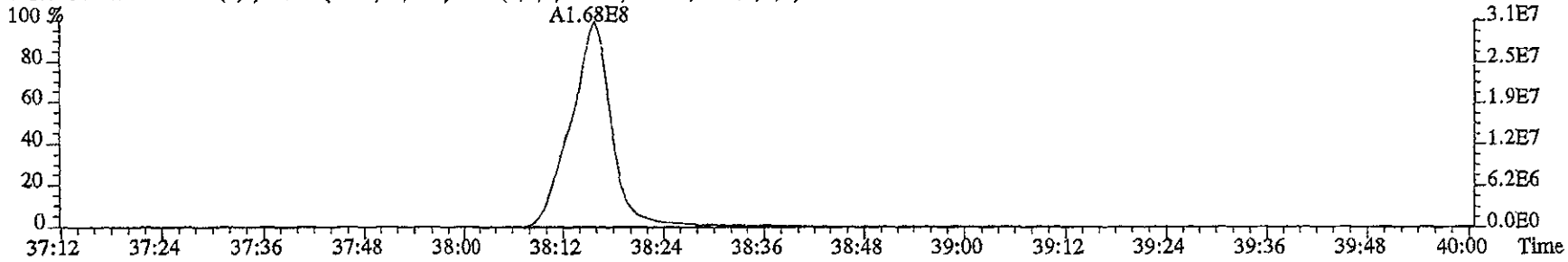
459.7348 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3772.0,1.00%,F,T)



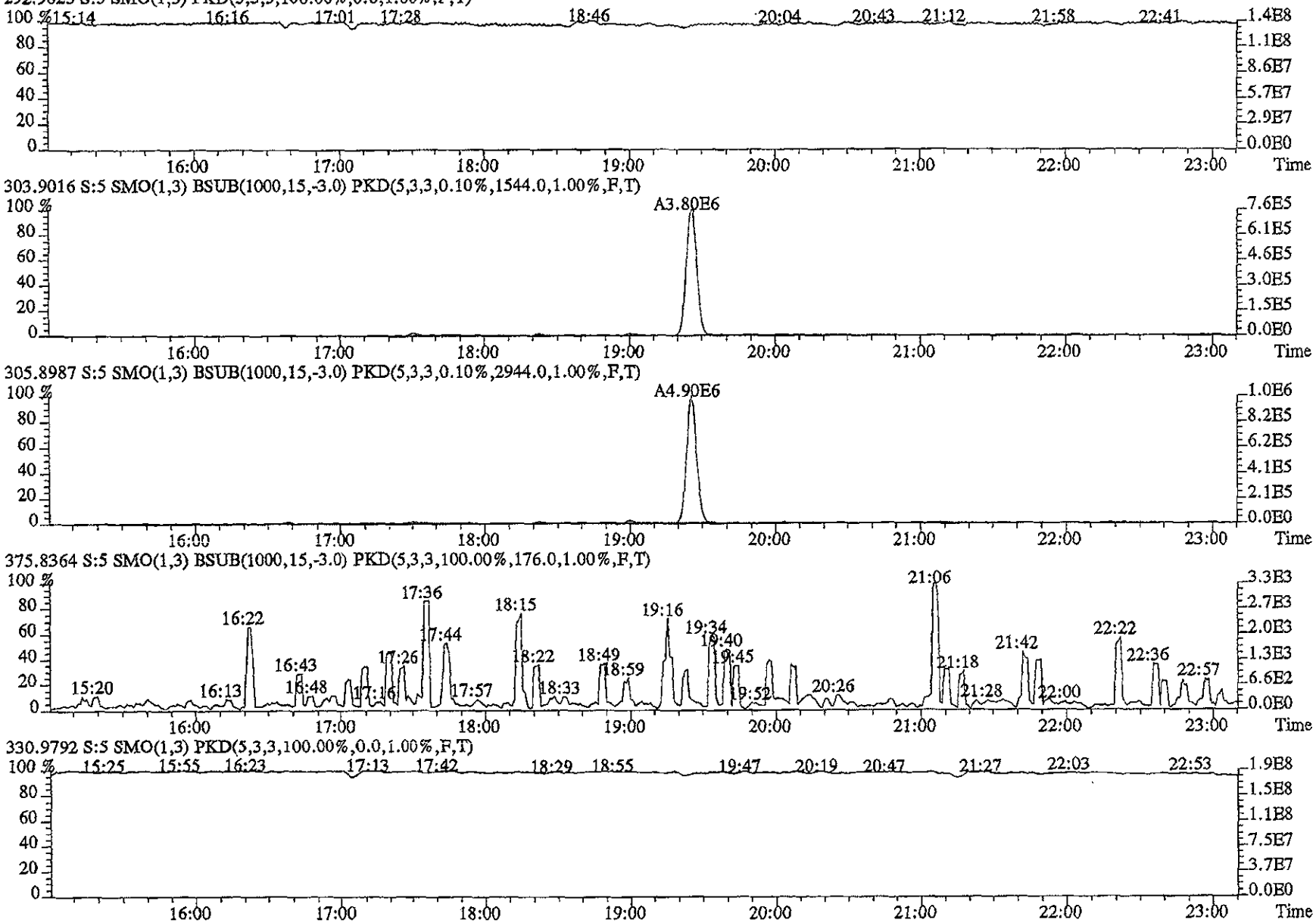
469.7779 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8144.0,1.00%,F,T)



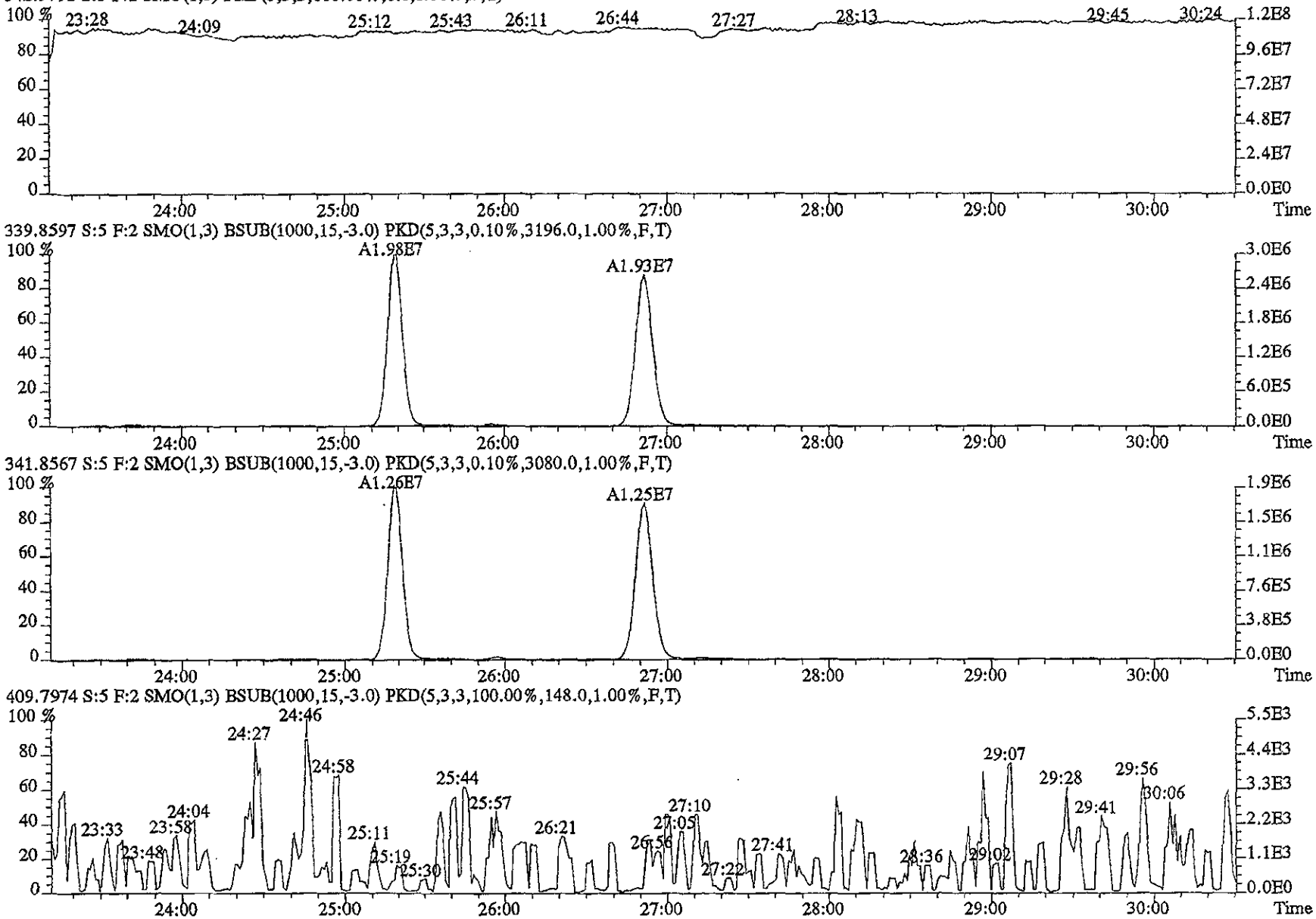
471.7750 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5252.0,1.00%,F,T)



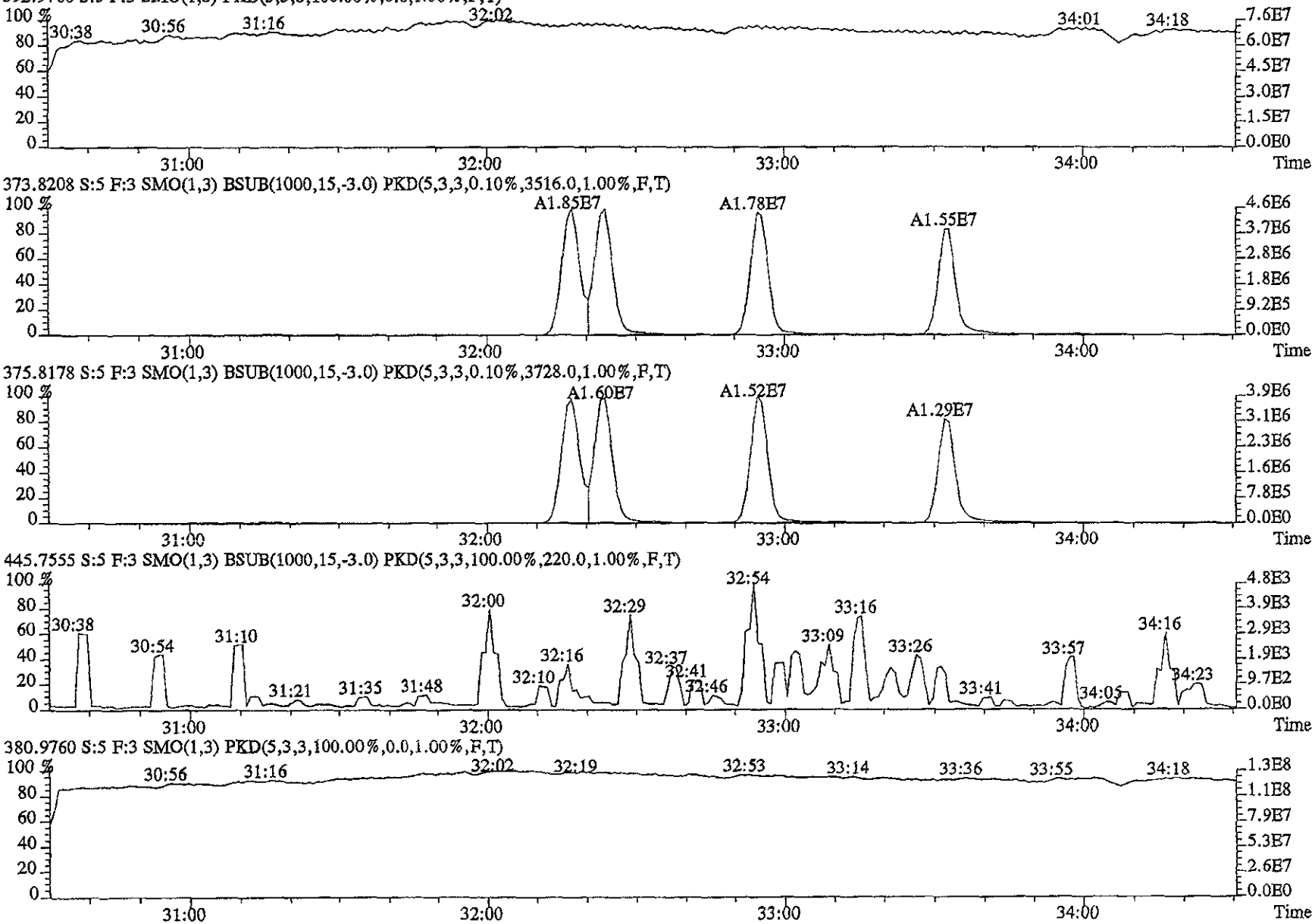
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES



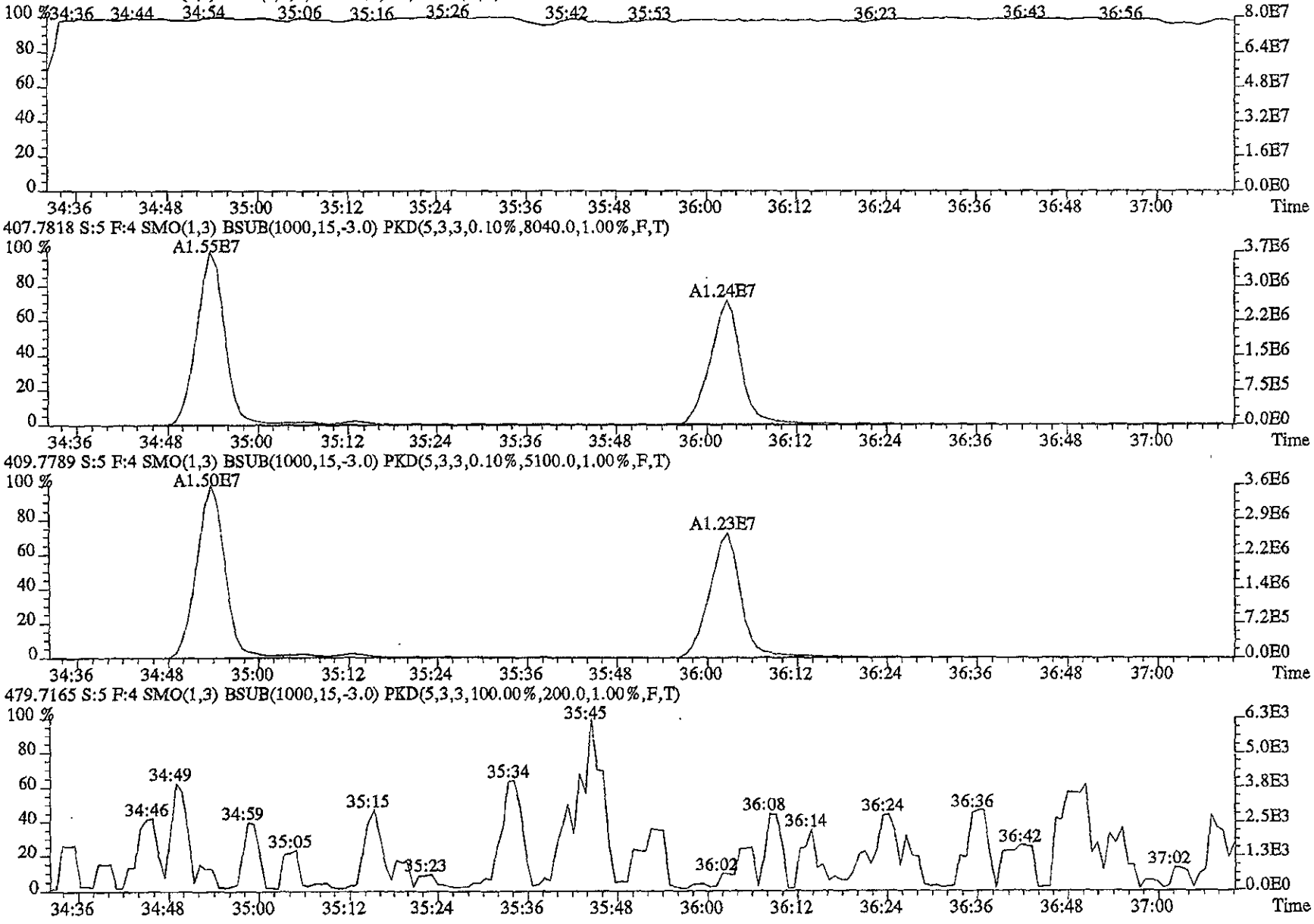
File:21JL10A4D5 #1-470 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES



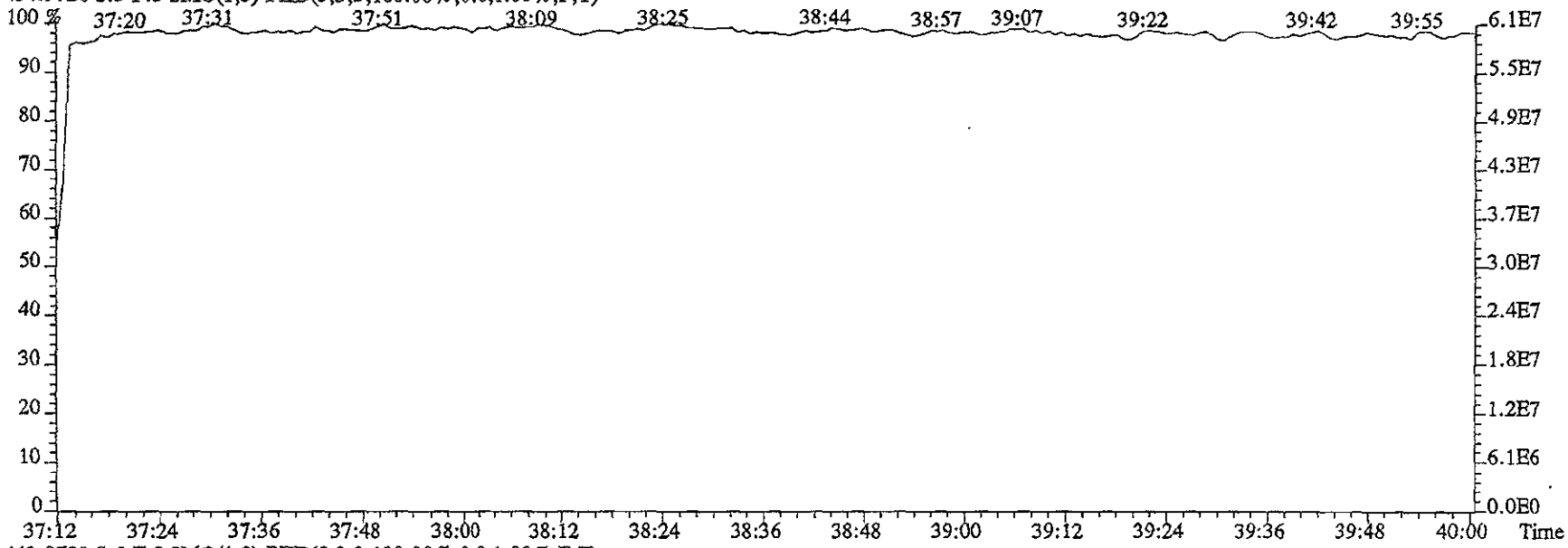
File:21JL10A4D5 #1-287 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES



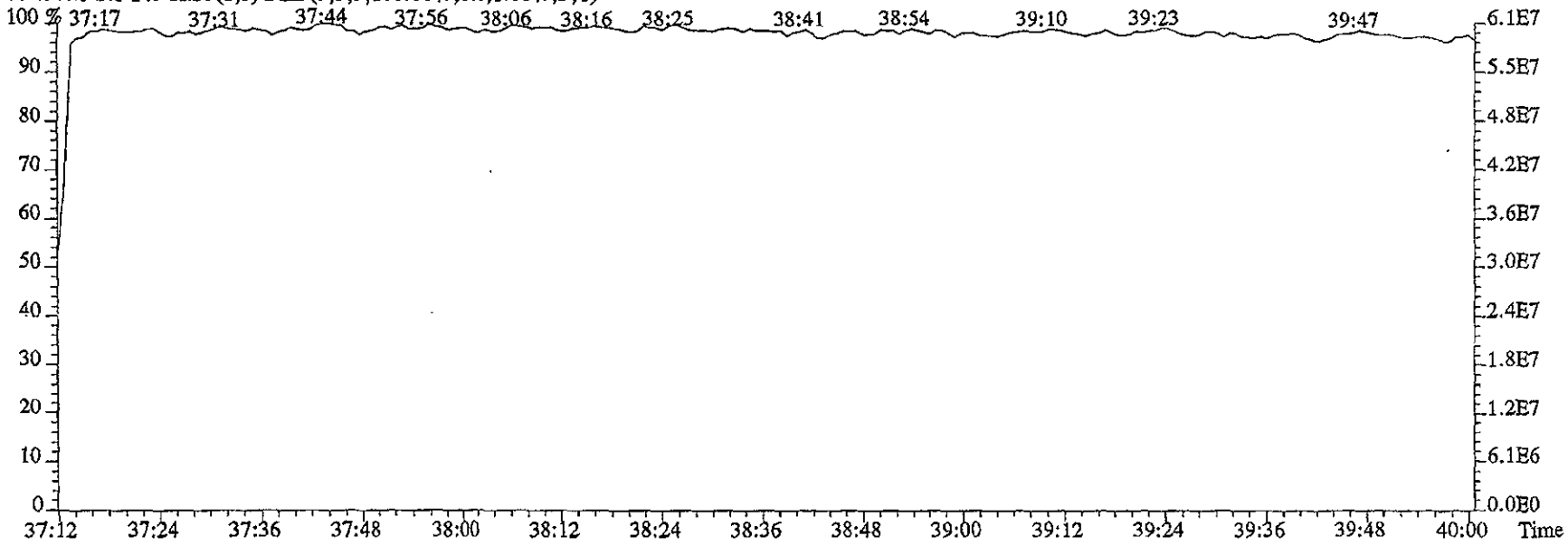
File:21JL10A4D5 #1-200 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES



File:21JL10A4D5 #1-228 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES
454.9728 S:5 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

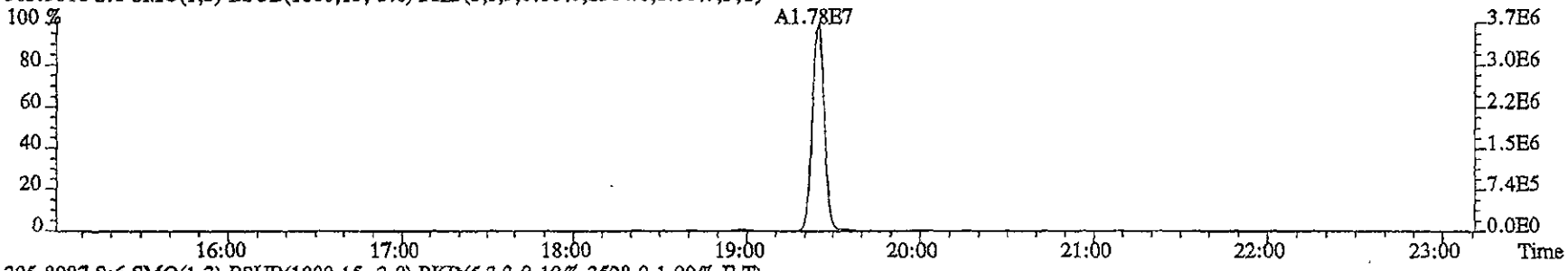


442.9728 S:5 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

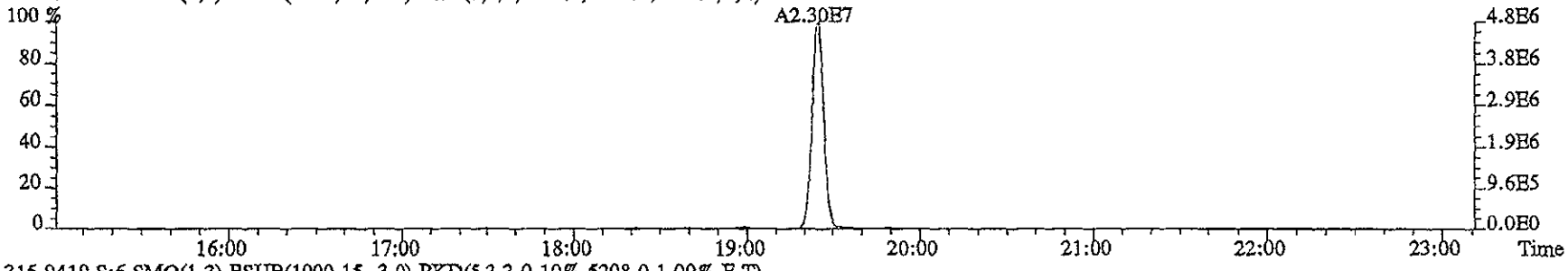


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES

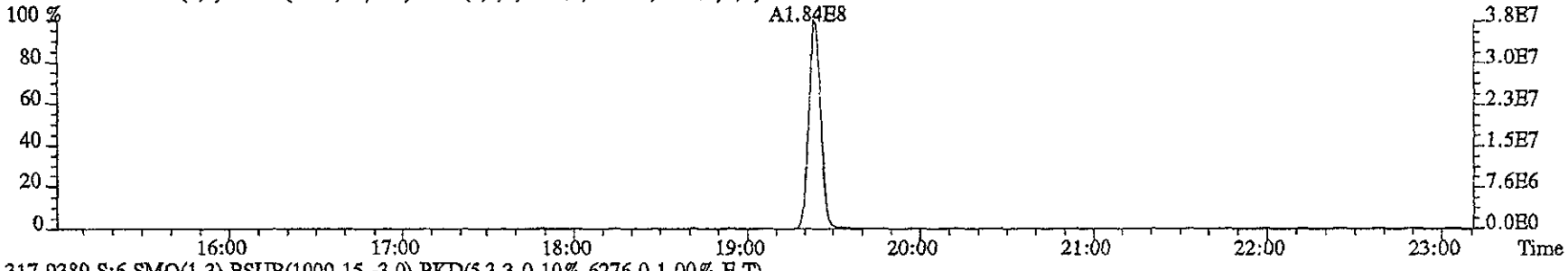
303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2384.0,1.00%,F,T)



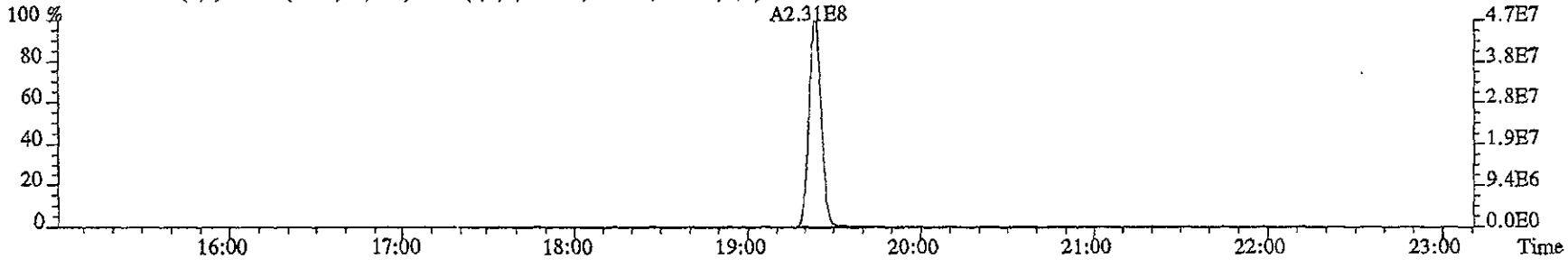
305.8987 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3528.0,1.00%,F,T)



315.9419 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5208.0,1.00%,F,T)

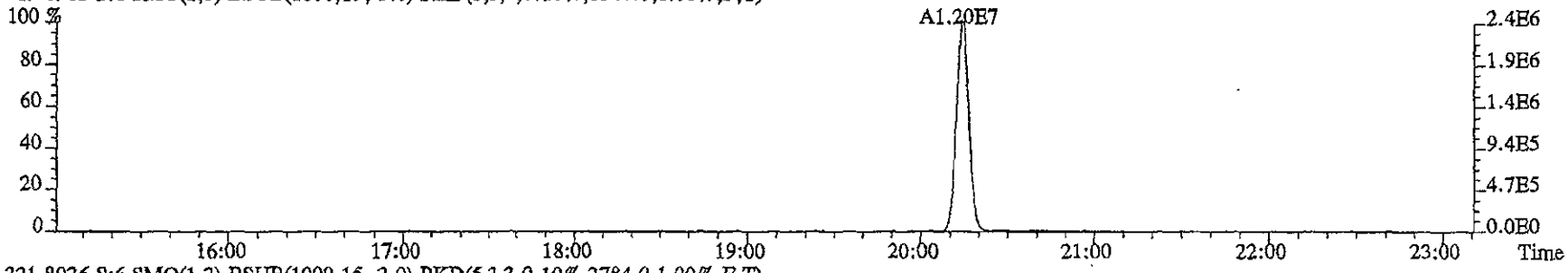


317.9389 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6276.0,1.00%,F,T)

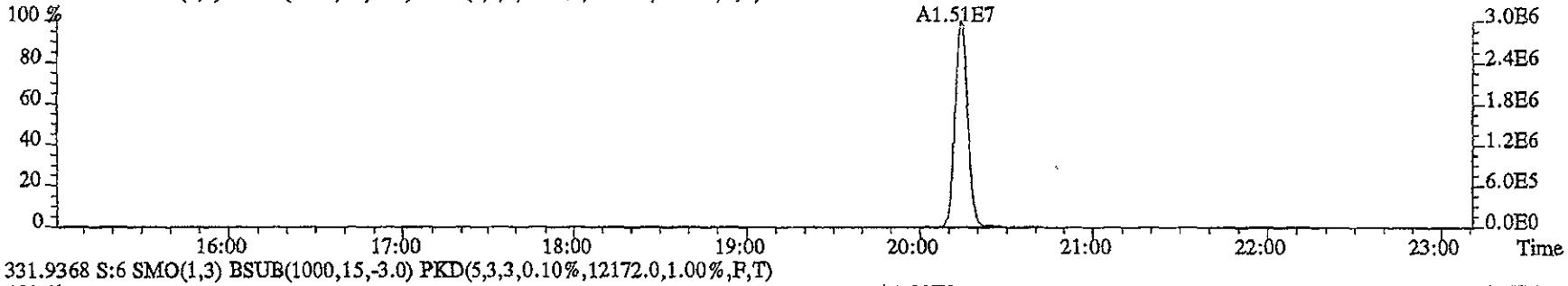


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES

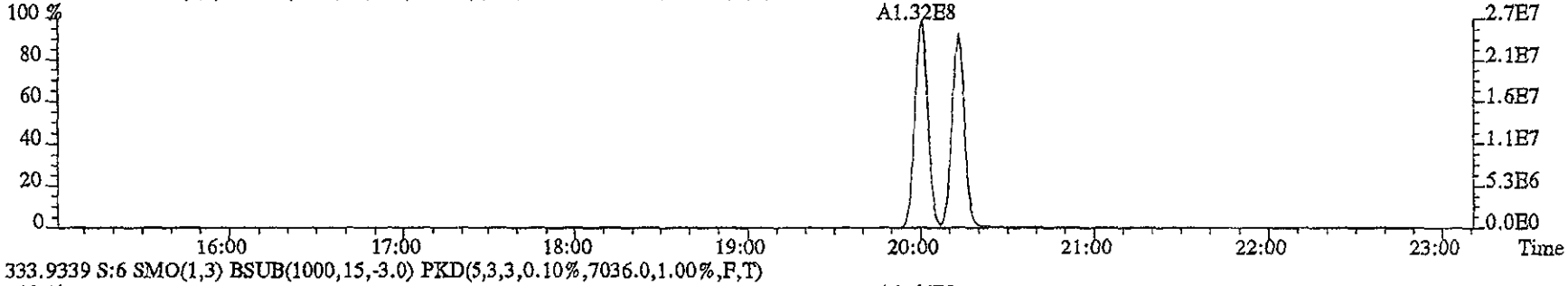
319.8965 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2340.0,1.00%,F,T)



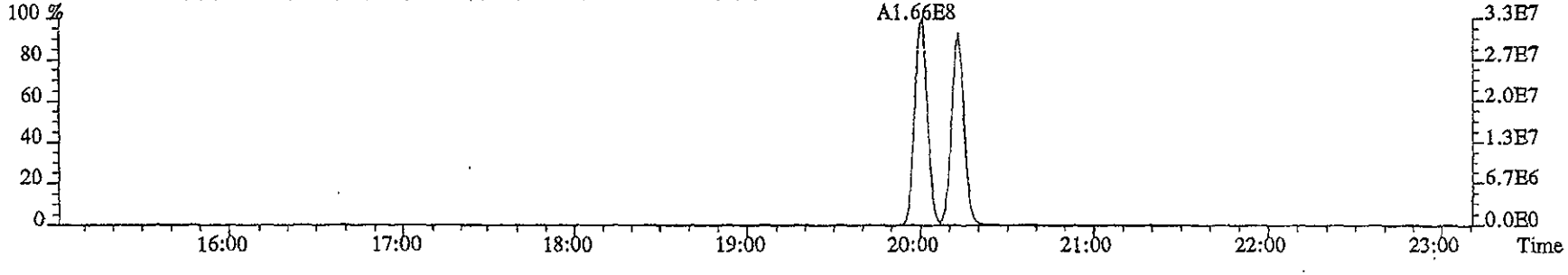
321.8936 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2784.0,1.00%,F,T)



331.9368 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12172.0,1.00%,F,T)

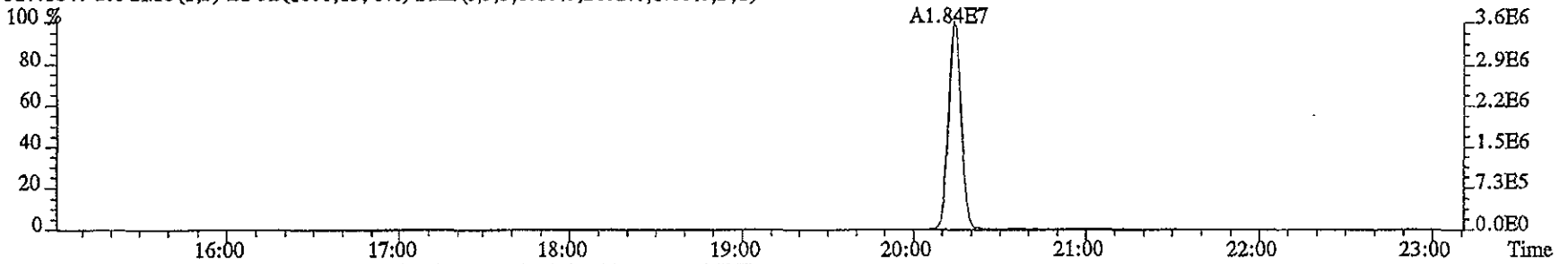


333.9339 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7036.0,1.00%,F,T)

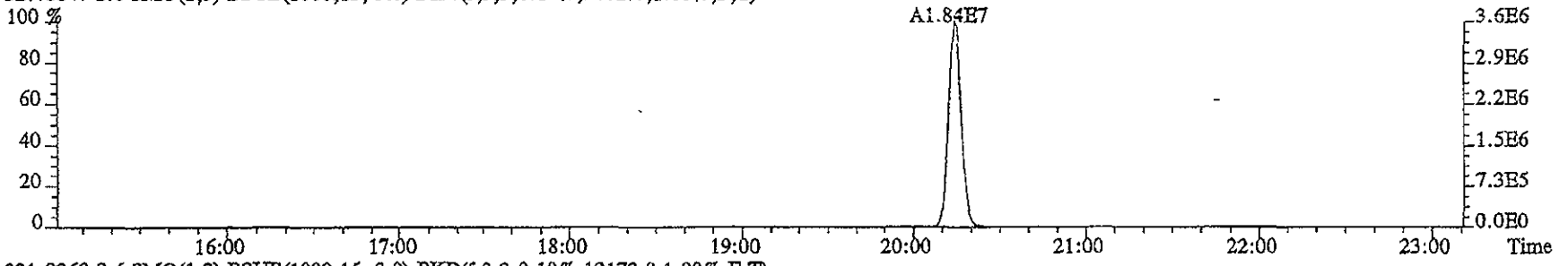


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES

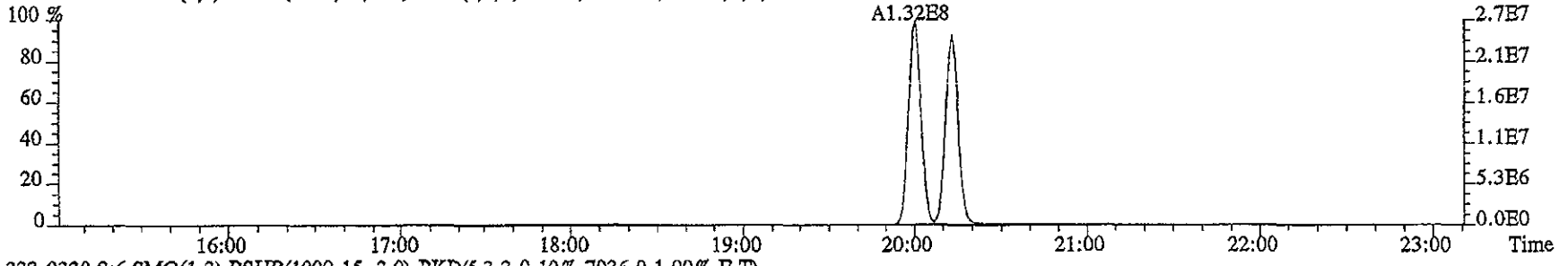
327.8847 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2672.0,1.00%,F,T)



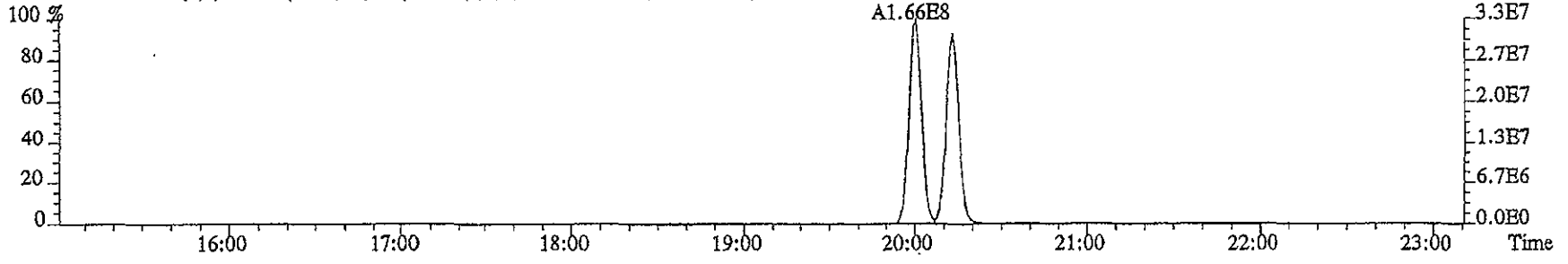
327.8847 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2672.0,1.00%,F,T)



331.9368 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12172.0,1.00%,F,T)

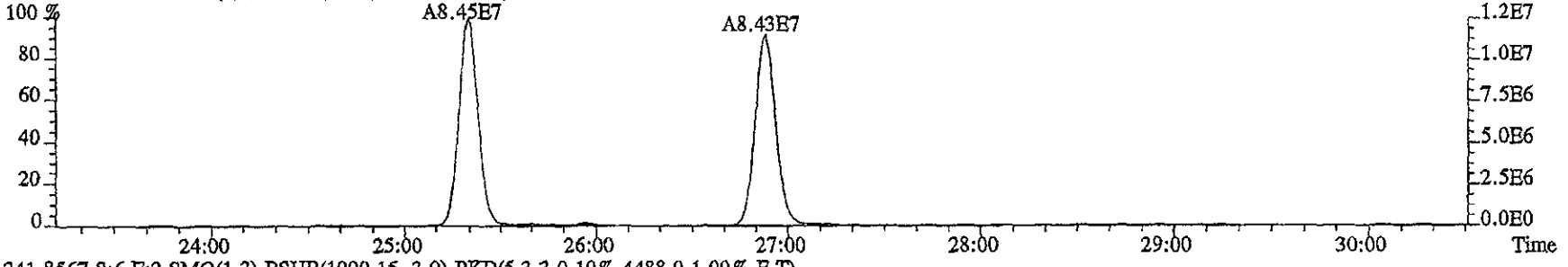


333.9339 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7036.0,1.00%,F,T)

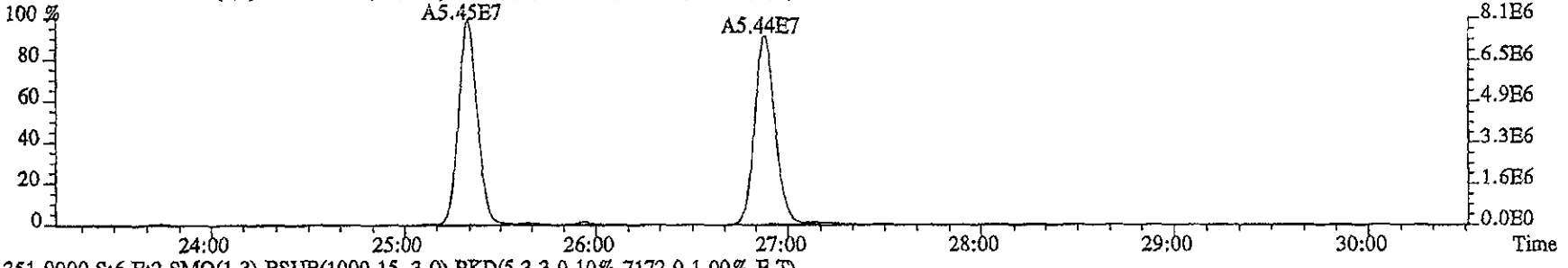


File:21JL10A4D5 #1-470 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES

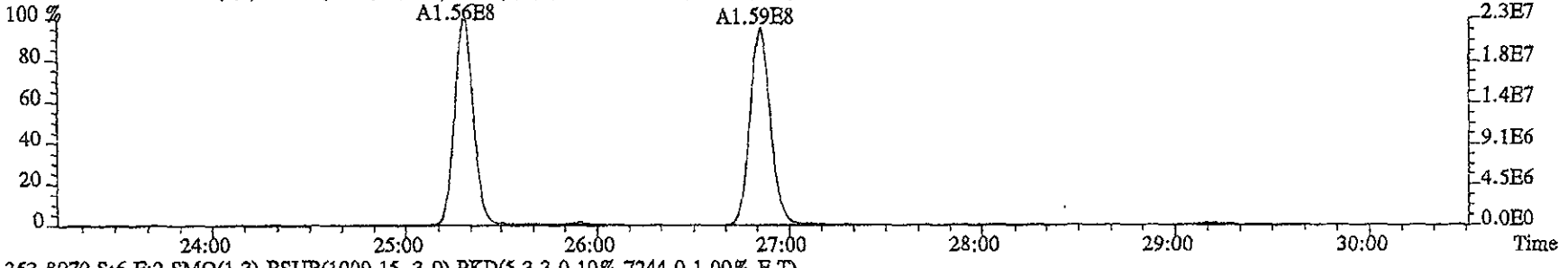
339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5136.0,1.00%,F,T)



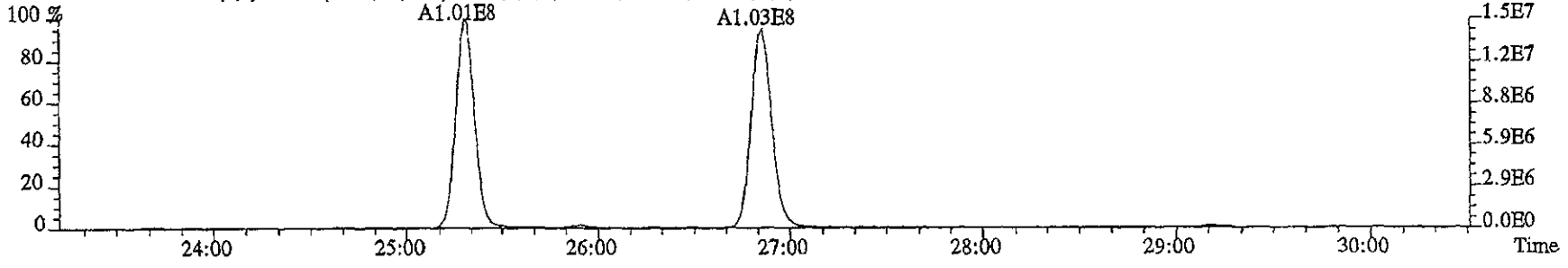
341.8567 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4488.0,1.00%,F,T)



351.9000 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7172.0,1.00%,F,T)

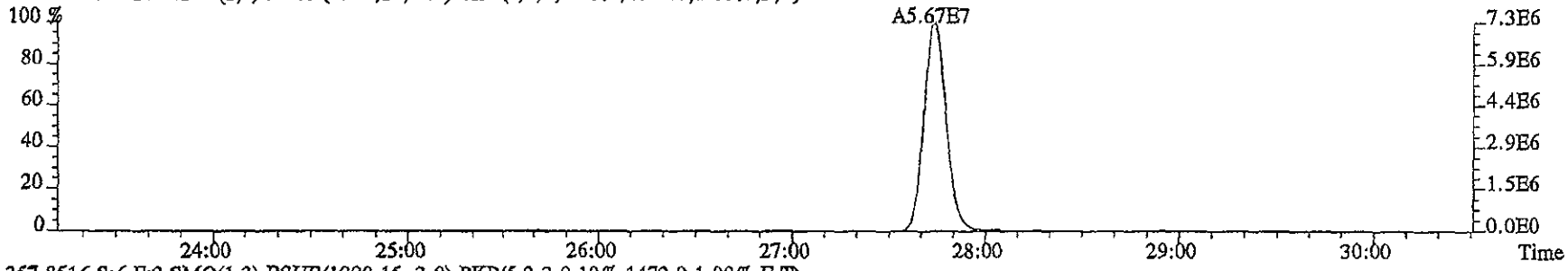


353.8970 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7244.0,1.00%,F,T)

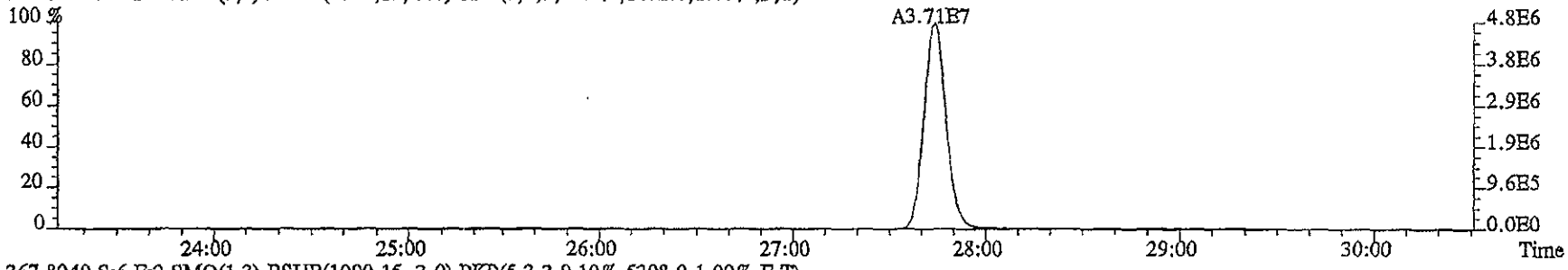


File:21JL10A4D5 #1-470 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES

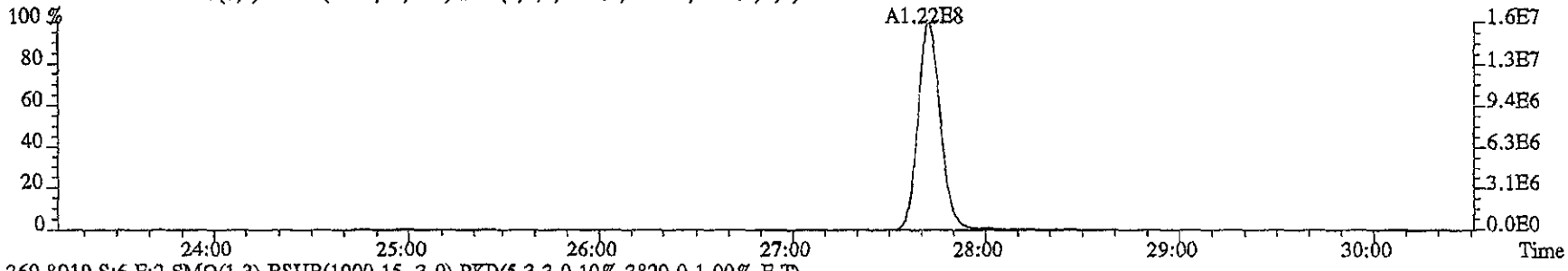
355.8546 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2856.0,1.00%,F,T)



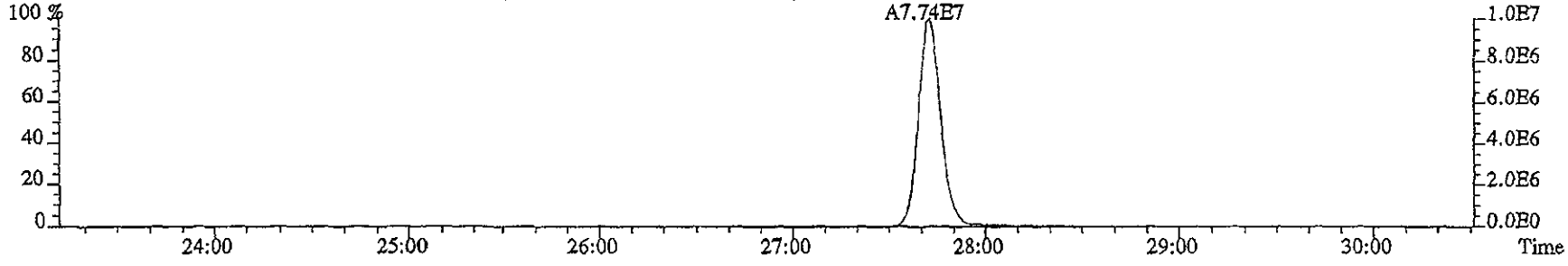
357.8516 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1472.0,1.00%,F,T)



367.8949 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5308.0,1.00%,F,T)

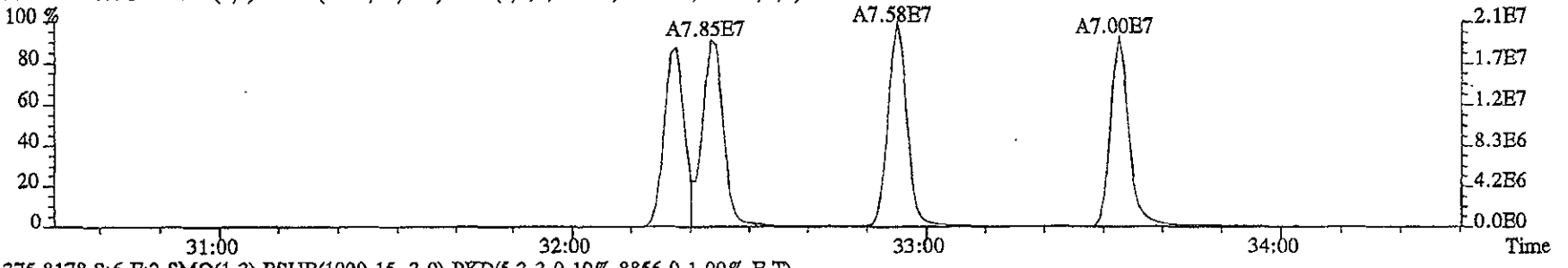


369.8919 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3820.0,1.00%,F,T)

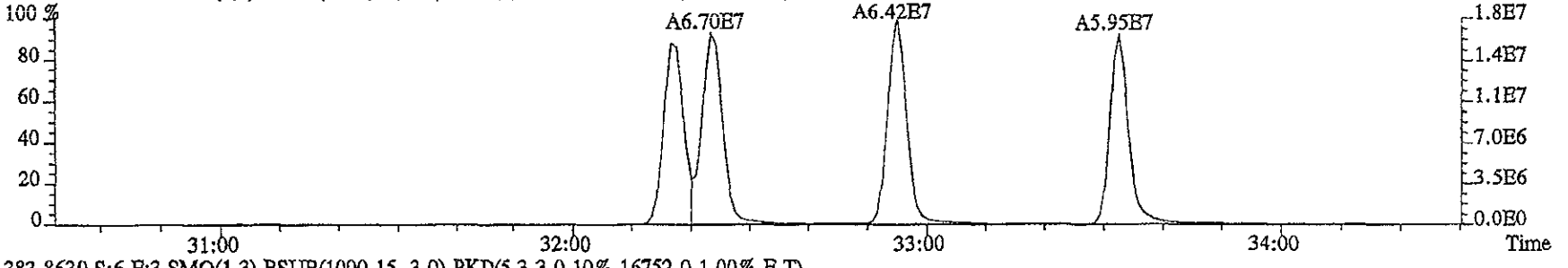


File:21JL10A4D5 #1-286 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES

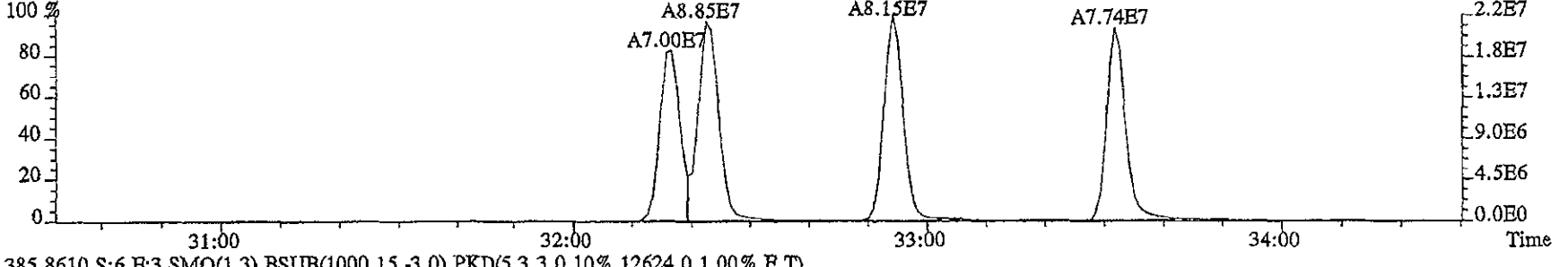
373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12848.0,1.00%,F,T)



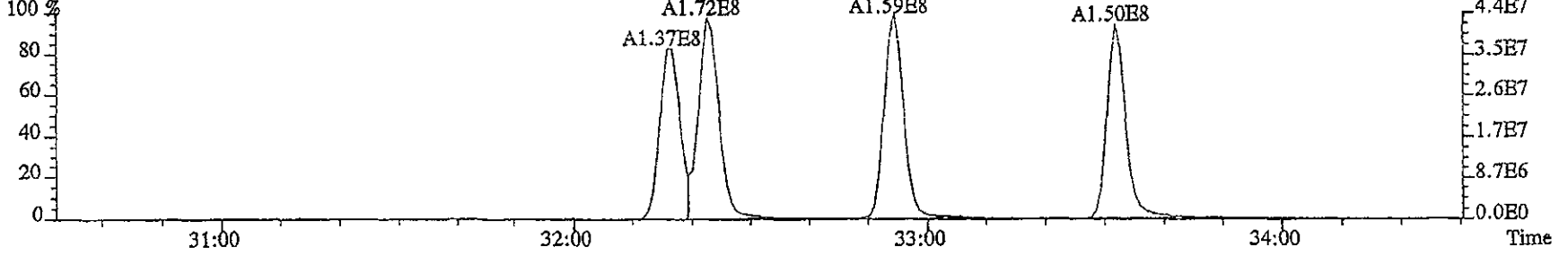
375.8178 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8856.0,1.00%,F,T)



383.8639 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16752.0,1.00%,F,T)

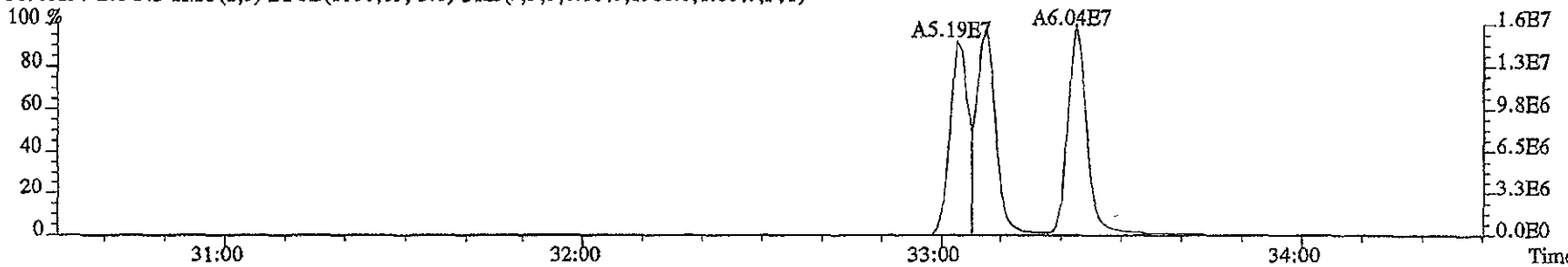


385.8610 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12624.0,1.00%,F,T)

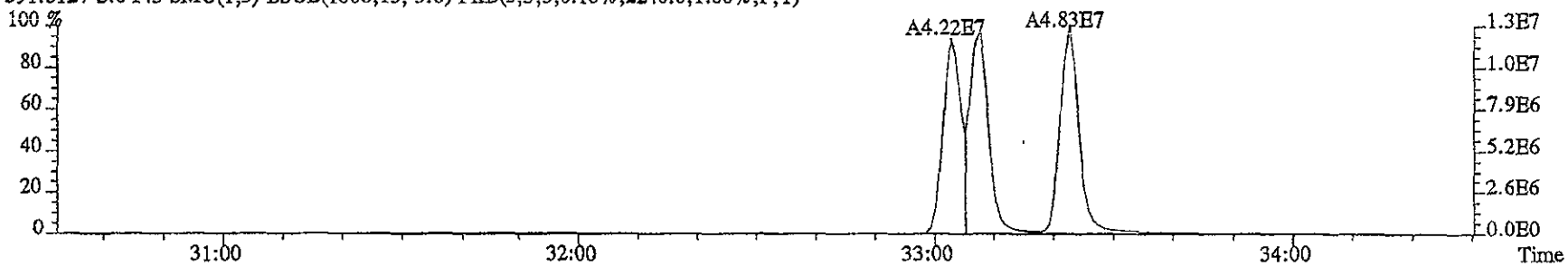


File:21JL10A4D5 #1-286 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES

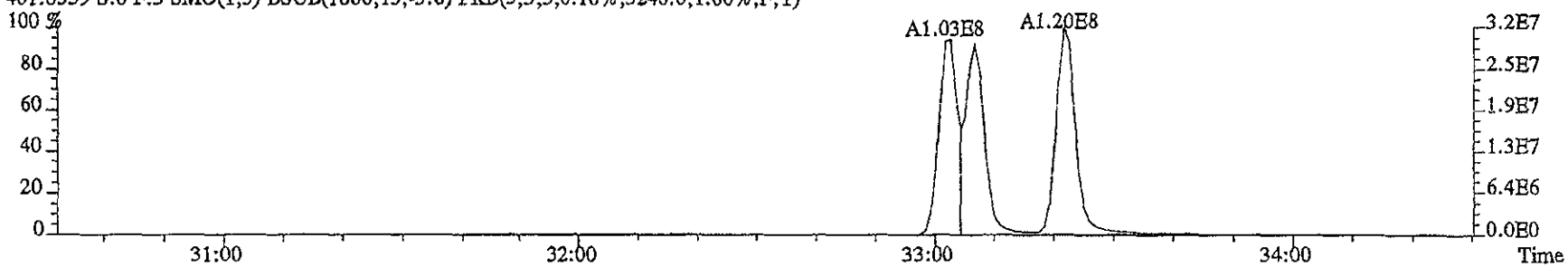
389.8157 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1980.0,1.00%,F,T)



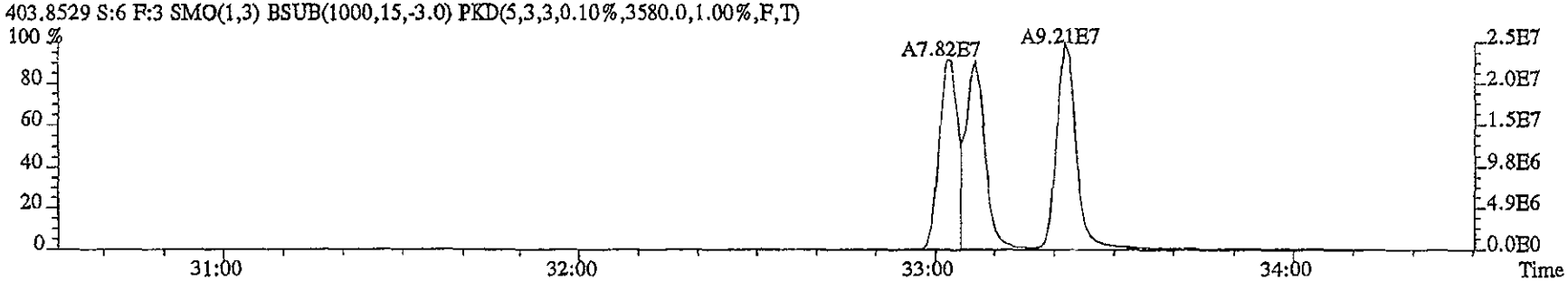
391.8127 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2240.0,1.00%,F,T)



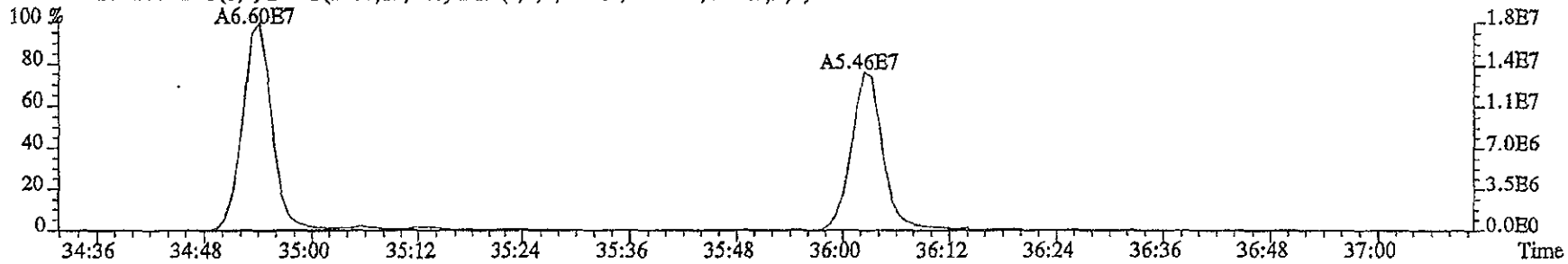
401.8559 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3240.0,1.00%,F,T)



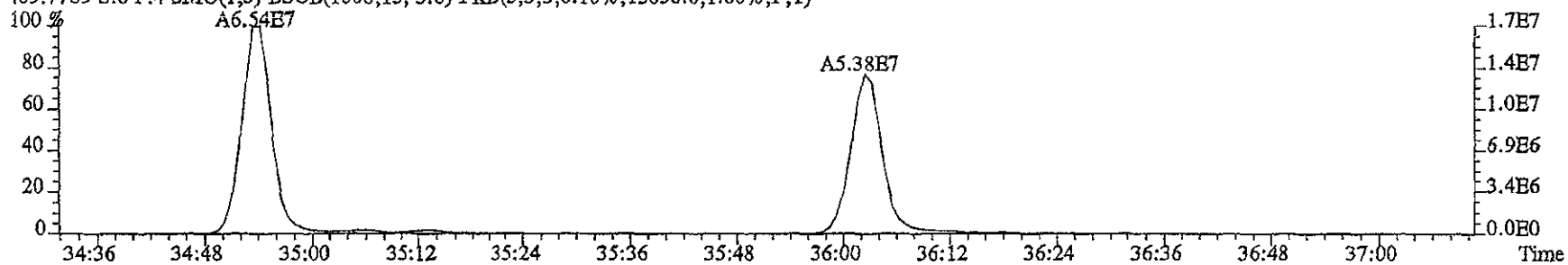
403.8529 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3580.0,1.00%,F,T)



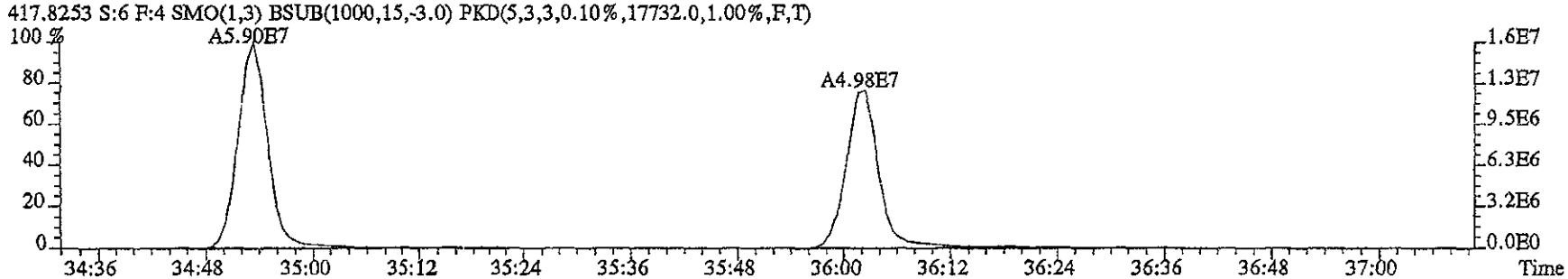
File:21JL10A4D5 #1-201 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES
407.7818 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10844.0,1.00%,F,T)



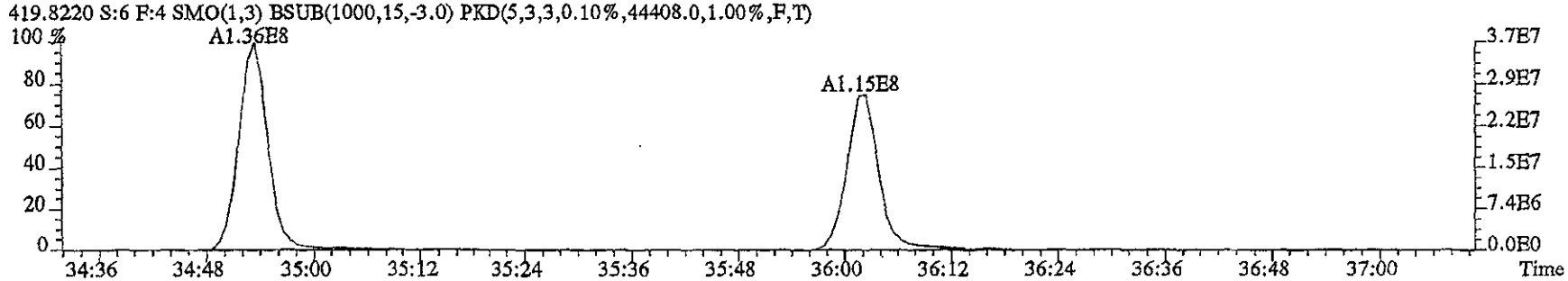
409.7789 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15056.0,1.00%,F,T)



417.8253 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17732.0,1.00%,F,T)

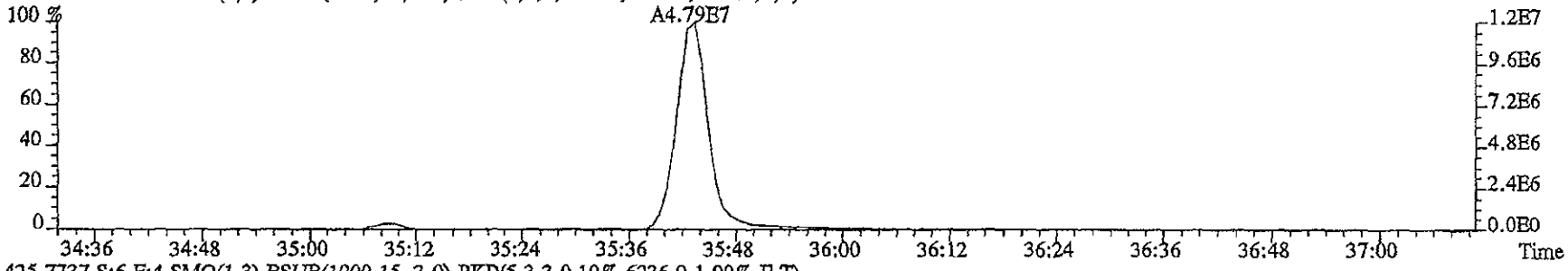


419.8220 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,44408.0,1.00%,F,T)

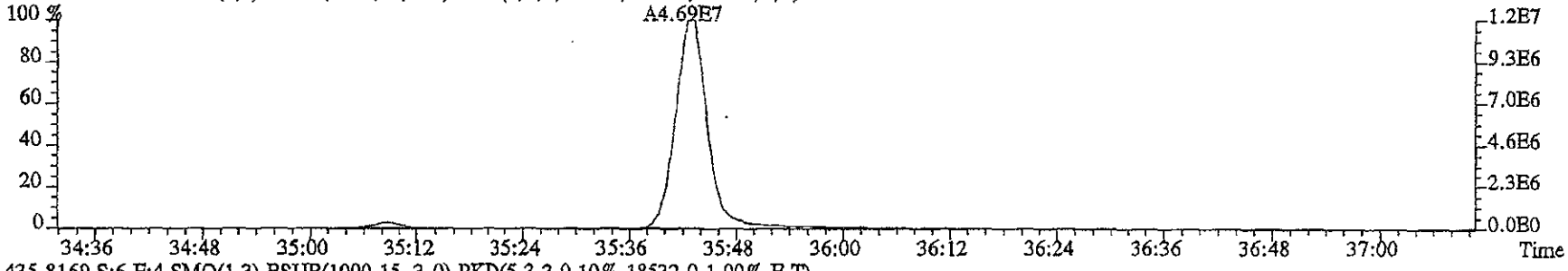


File:21JL10A4D5 #1-201 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES

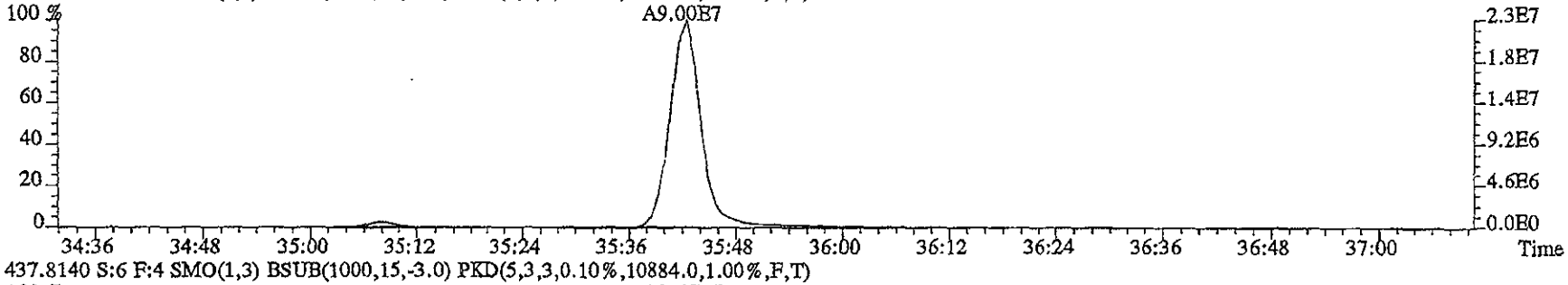
423.7766 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7856.0,1.00%,F,T)



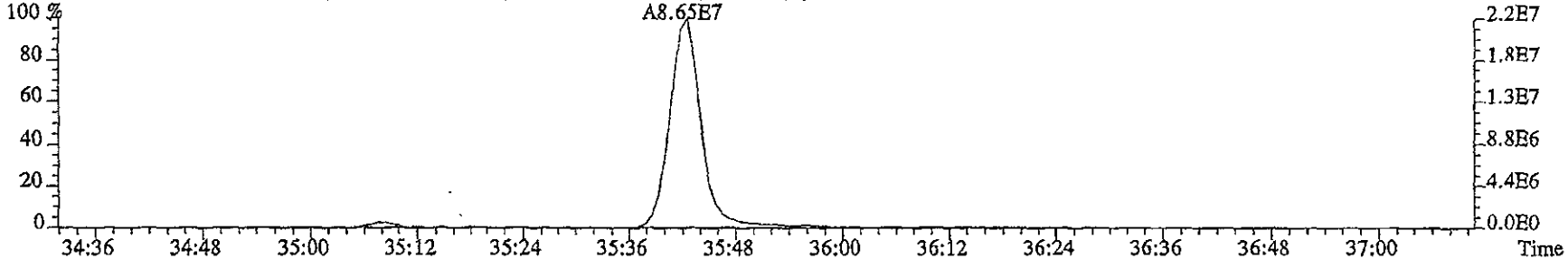
425.7737 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6236.0,1.00%,F,T)



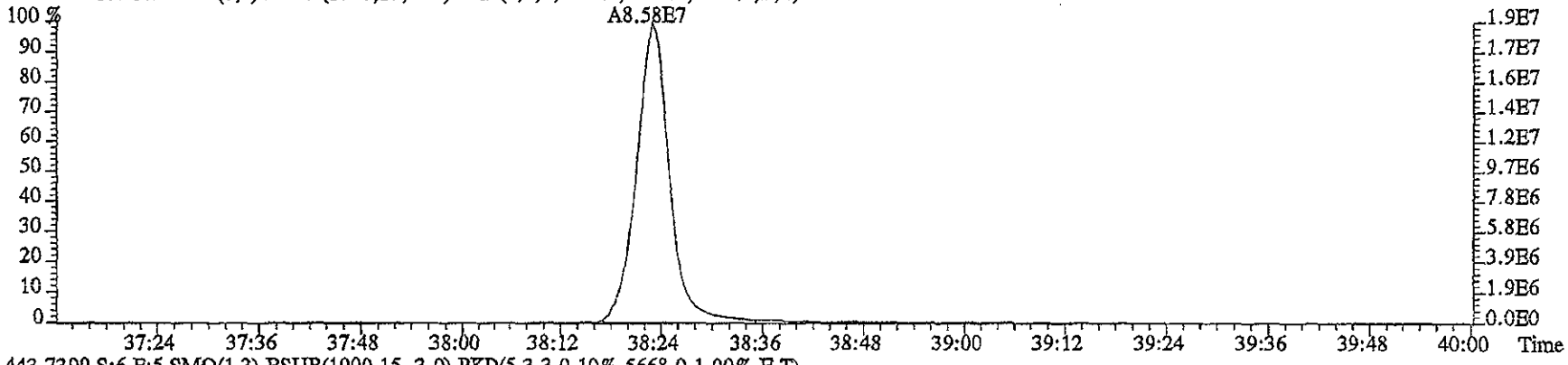
435.8169 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18532.0,1.00%,F,T)



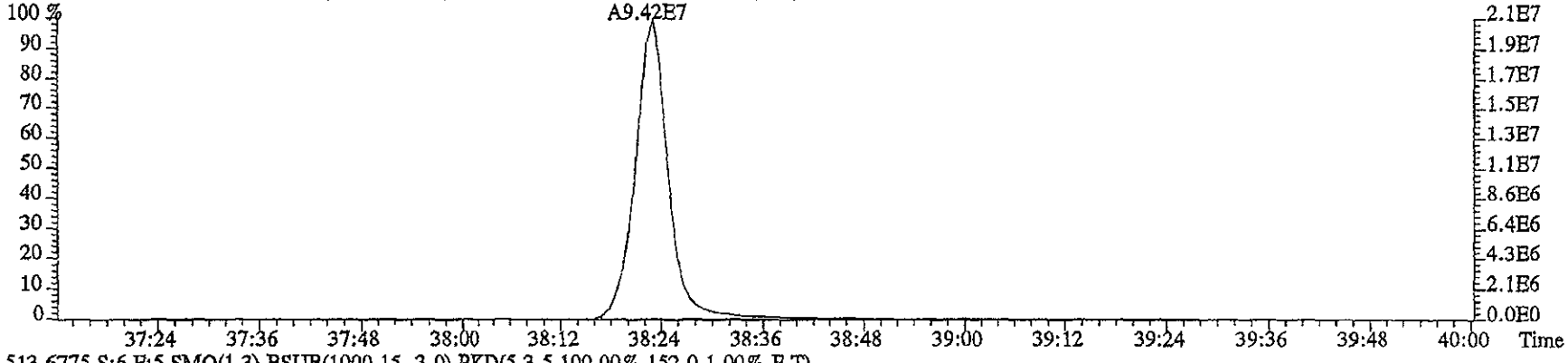
437.8140 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10884.0,1.00%,F,T)



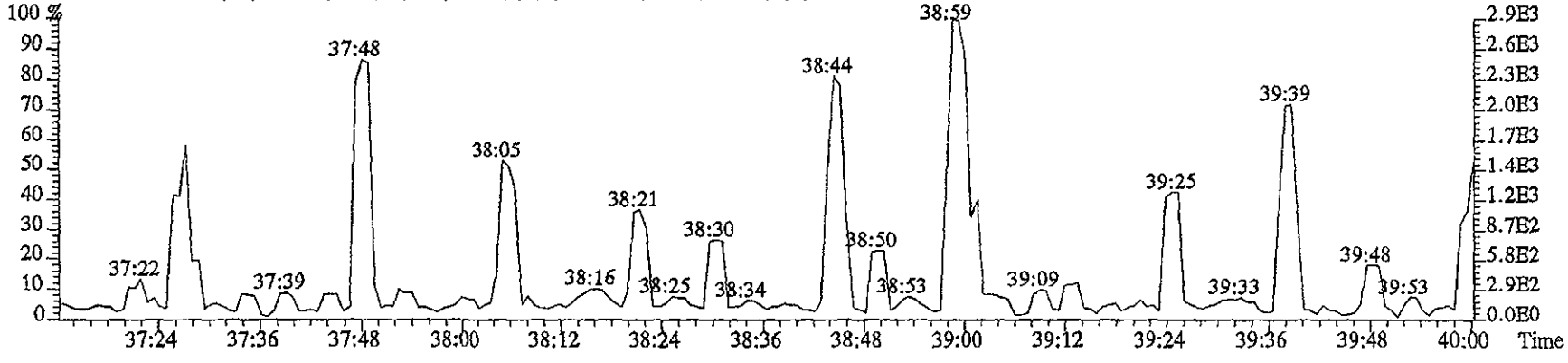
File:21JL10A4D5 #1-227 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES
441.7428 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3800.0,1.00%,F,T)



443.7399 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5668.0,1.00%,F,T)

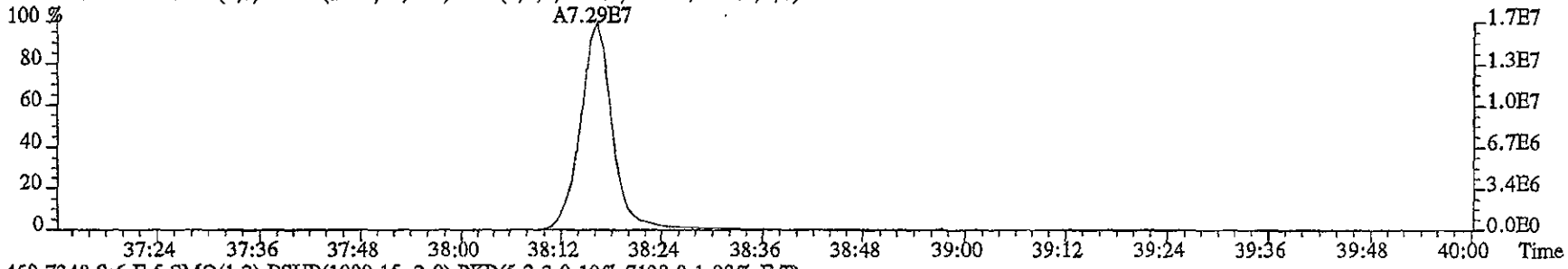


513.6775 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,152.0,1.00%,F,T)

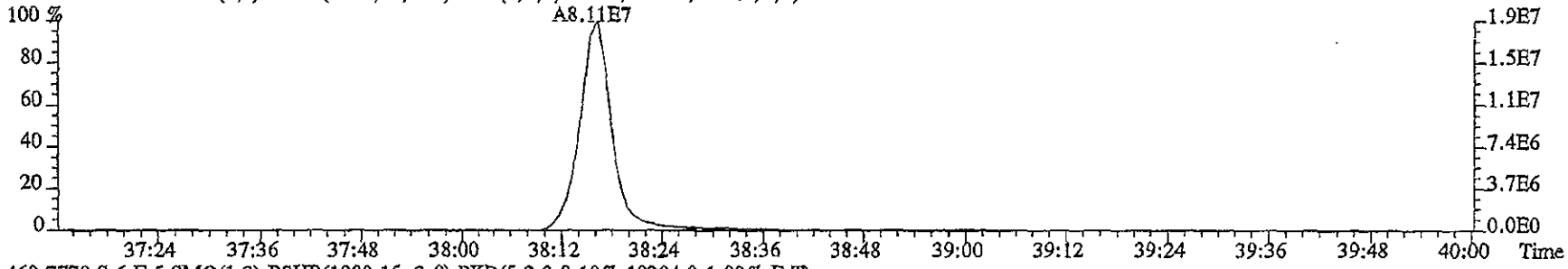


File:21JL10A4D5 #1-227 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES

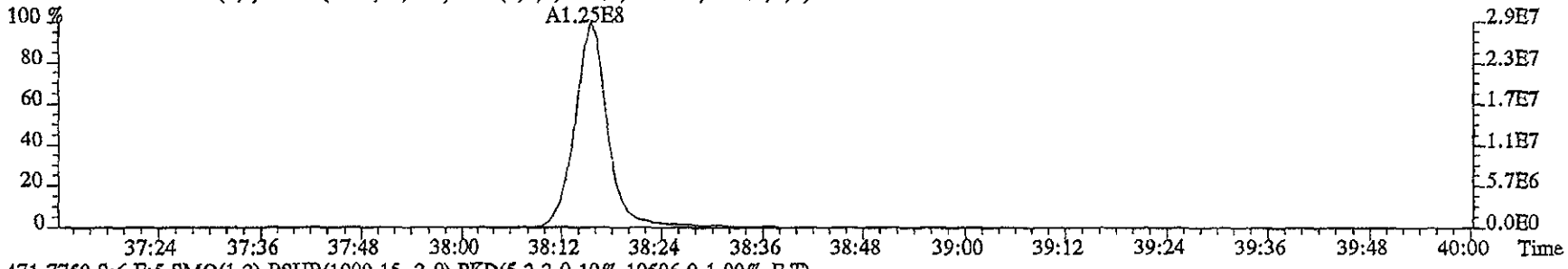
457.7377 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3472.0,1.00%,F,T)



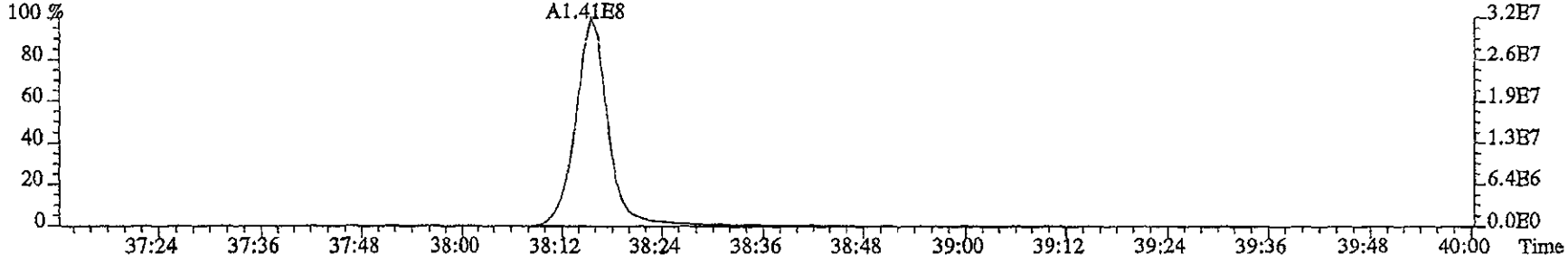
459.7348 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7128.0,1.00%,F,T)



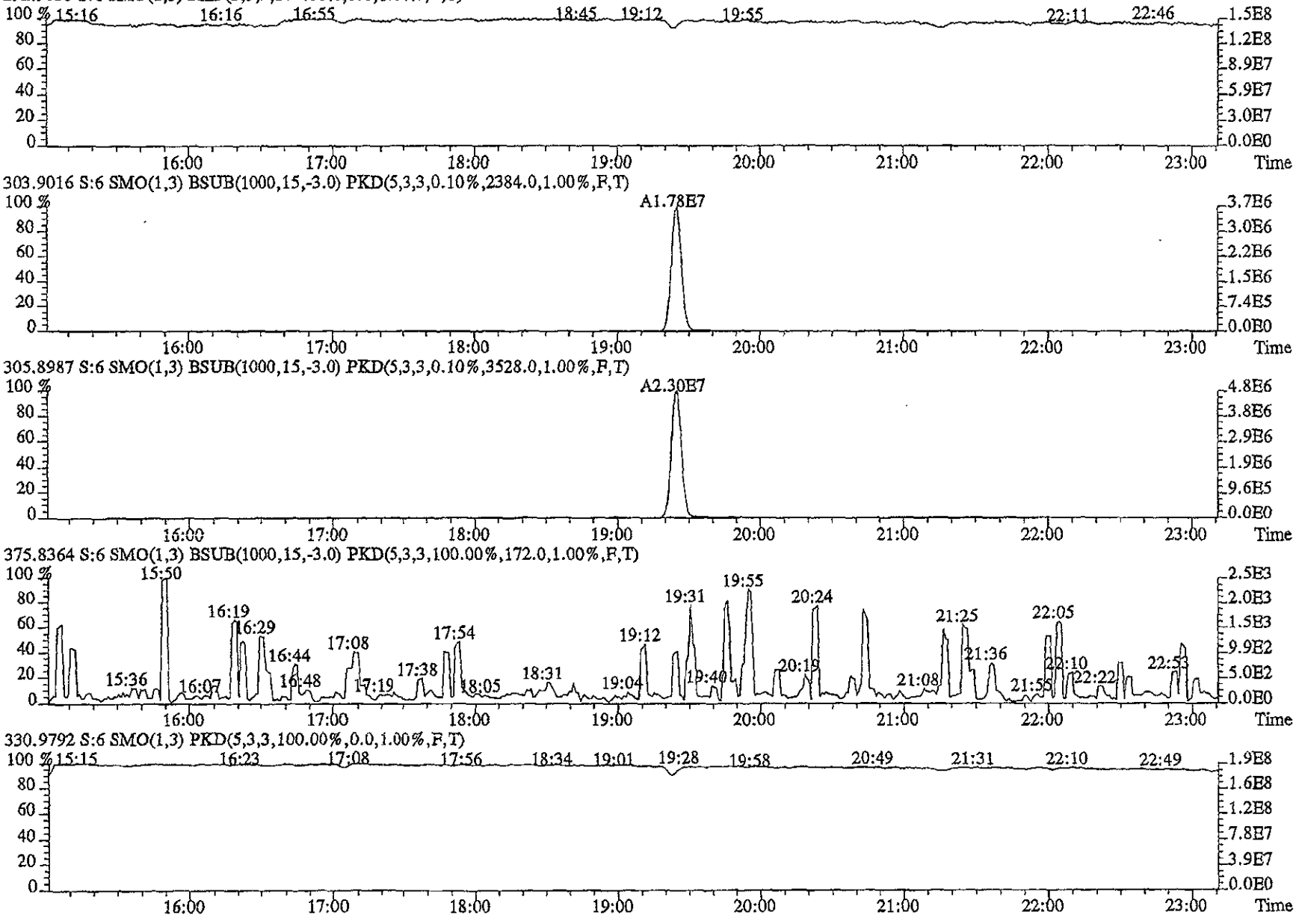
469.7779 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10384.0,1.00%,F,T)

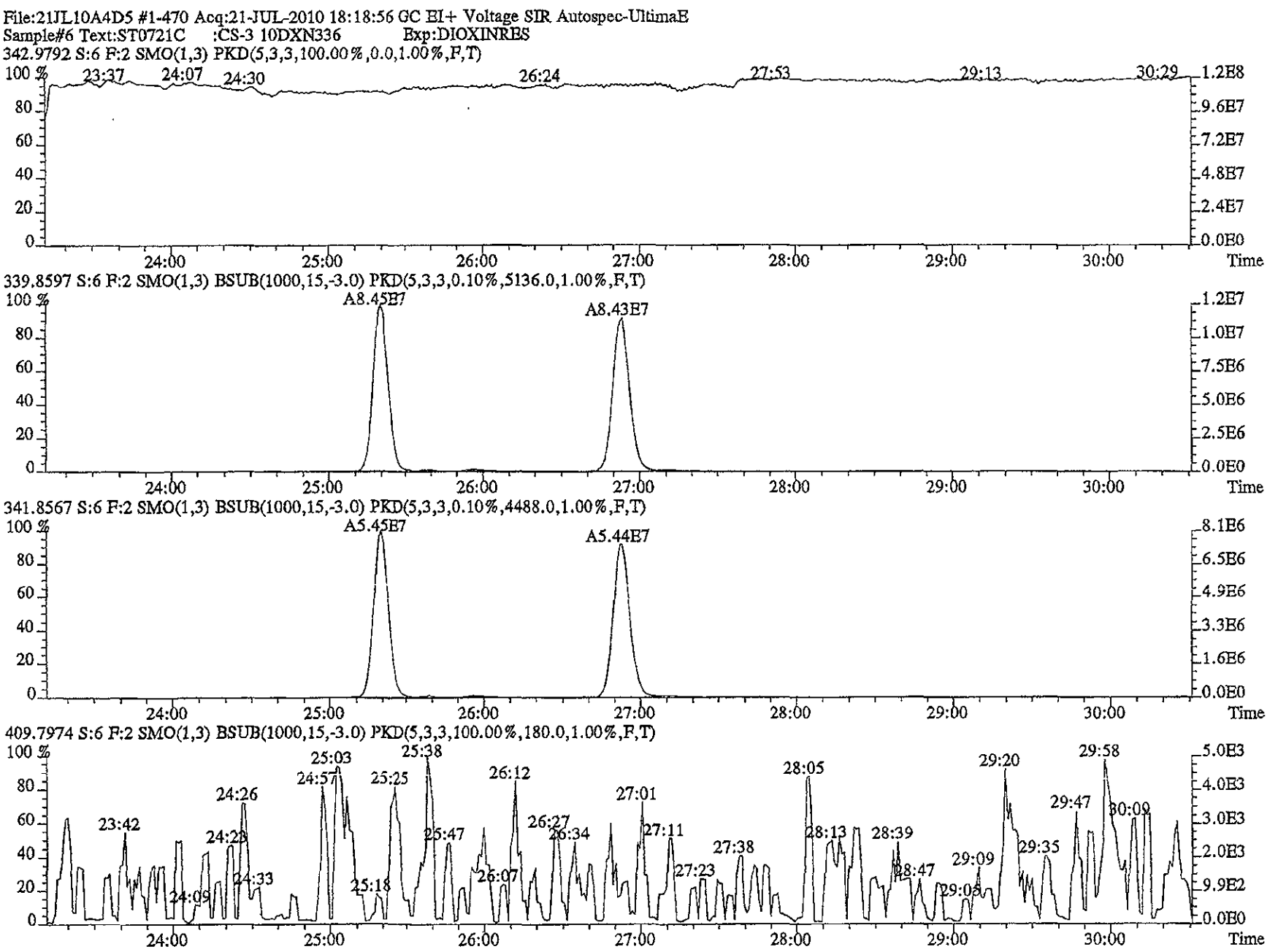


471.7750 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10596.0,1.00%,F,T)

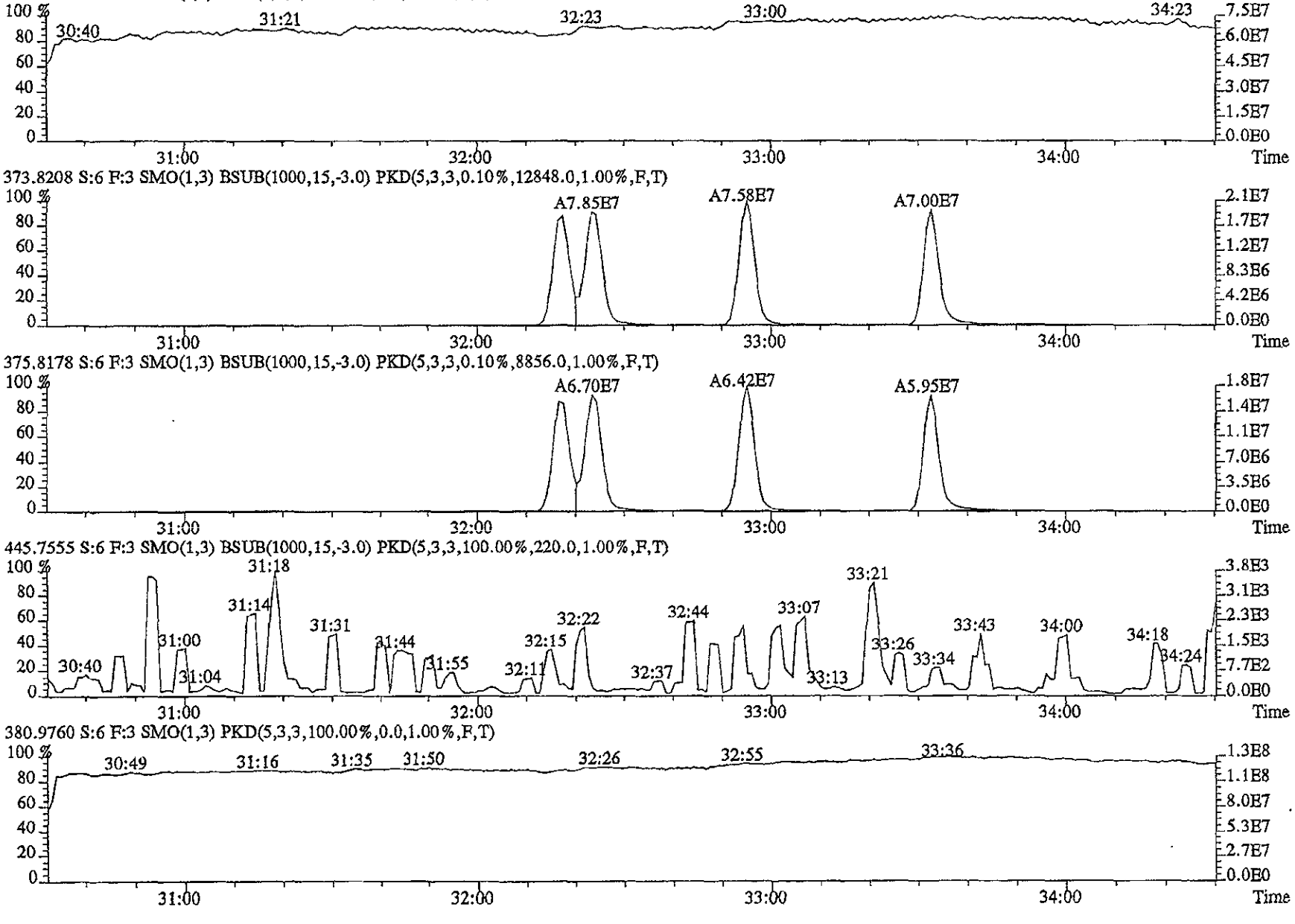


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES

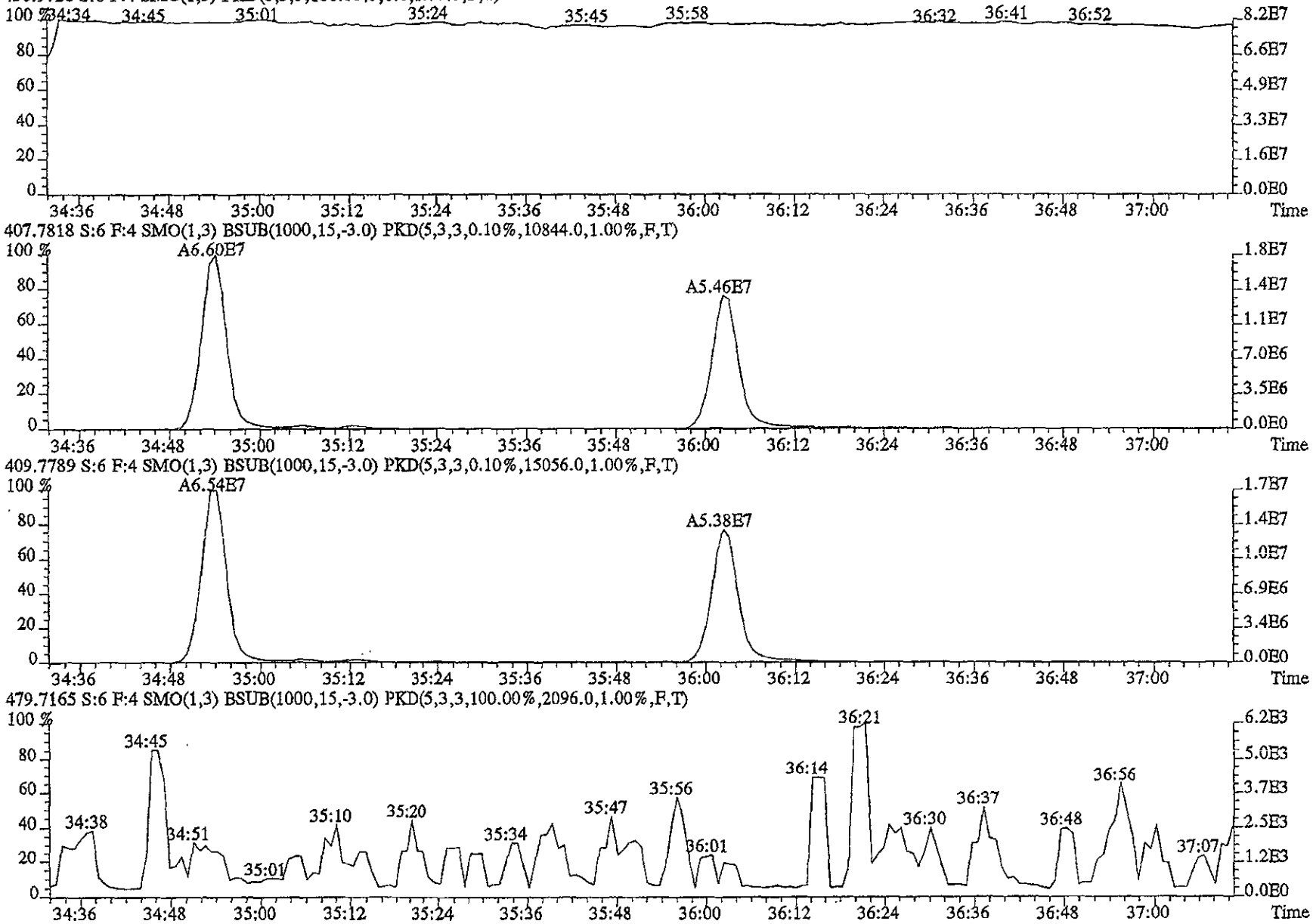



File:21JL10A4D5 #1-470 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES
342.9792 S:6 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5136.0,1.00%,F,T)
A8.45E7
A8.43E7
341.8567 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4488.0,1.00%,F,T)
A5.45E7
A5.44E7
409.7974 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,180.0,1.00%,F,T)
Time

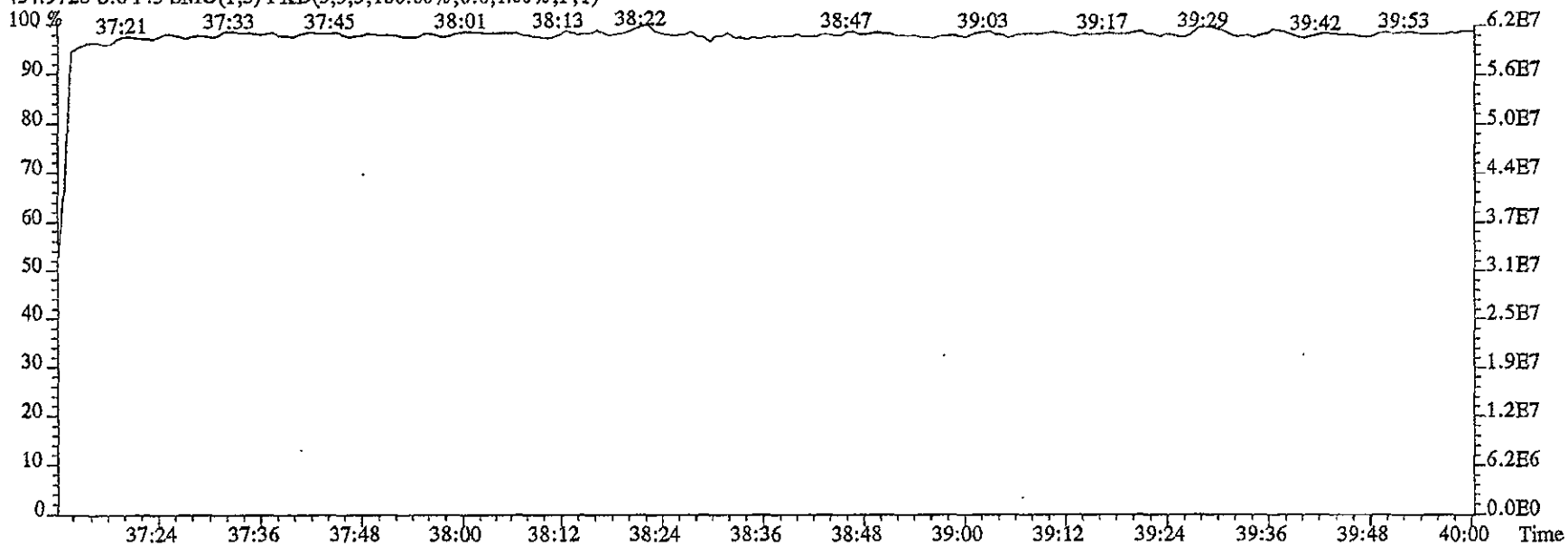
File:21JL10A4D5 #1-286 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES



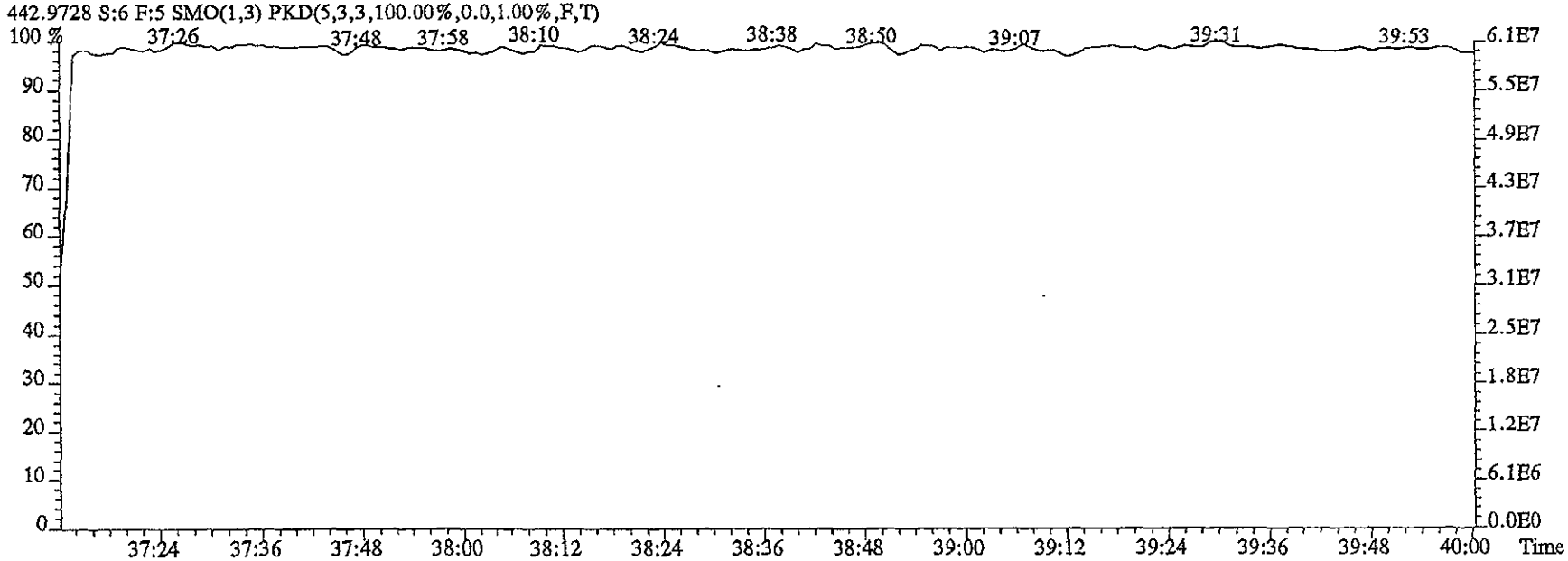
File:21JL10A4D5 #1-201 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaB
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES



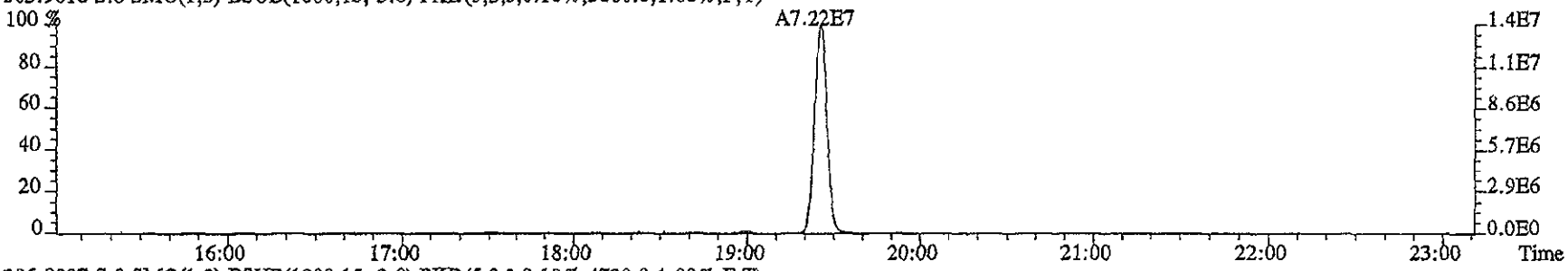
File:21JL10A4D5 #1-227 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES
454.9728 S:6 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

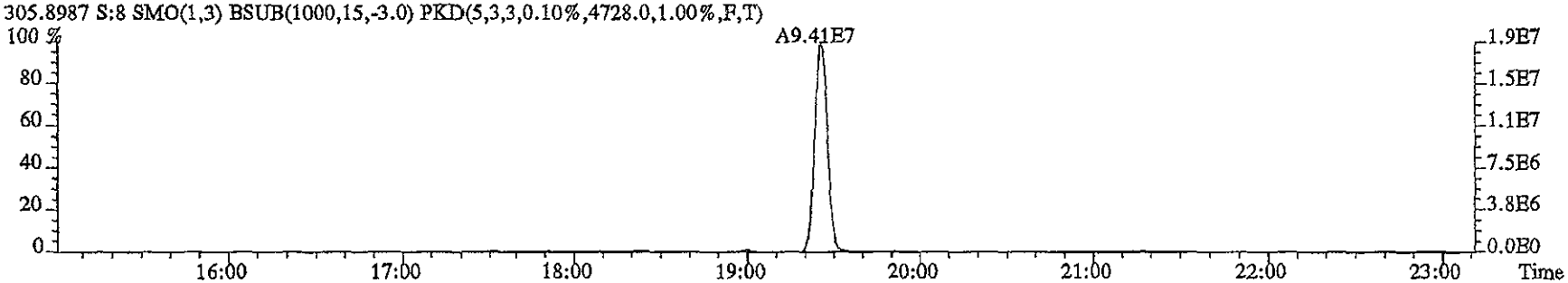


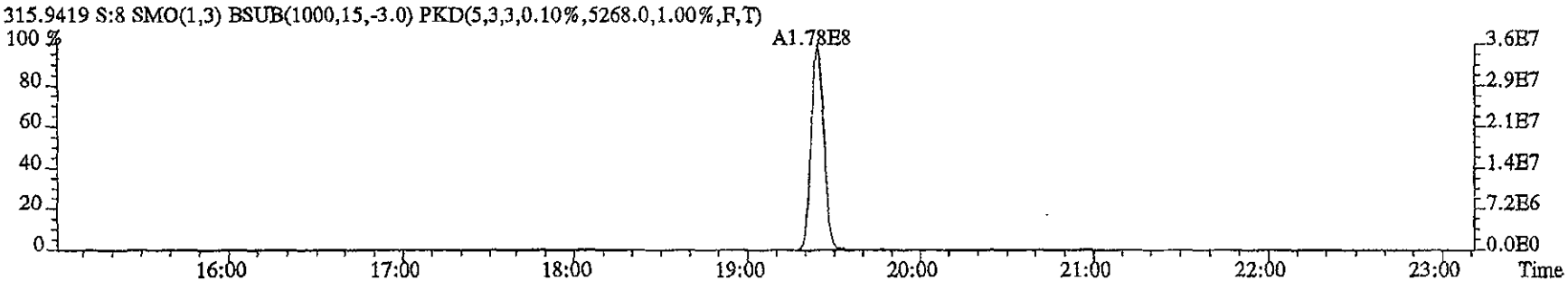
442.9728 S:6 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

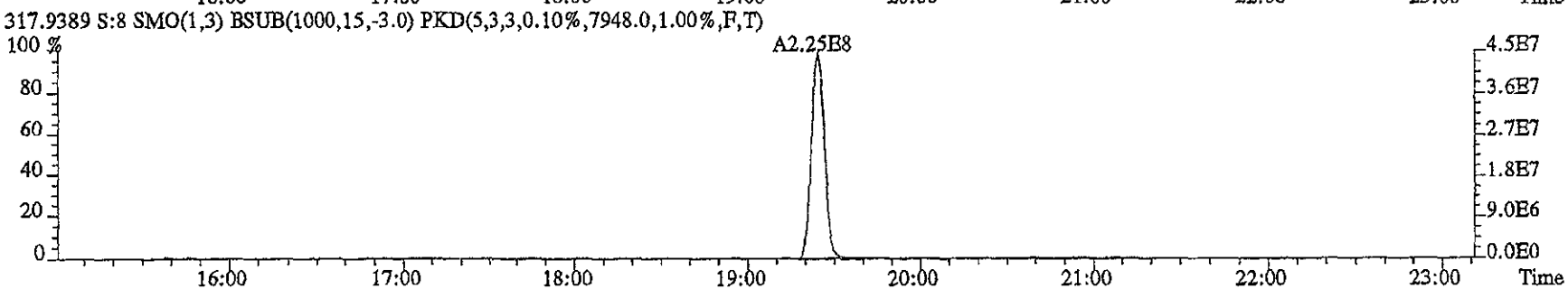


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES

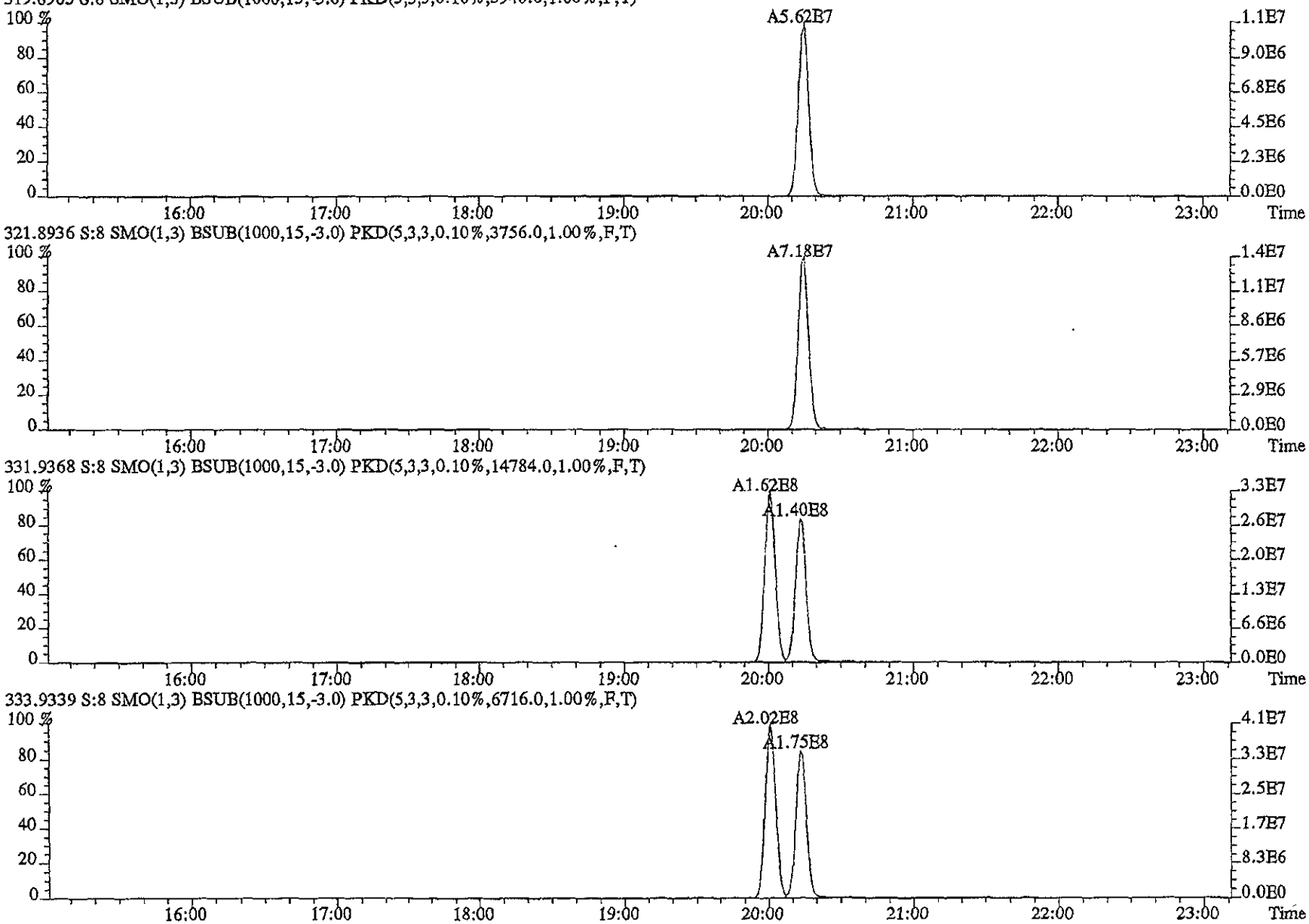




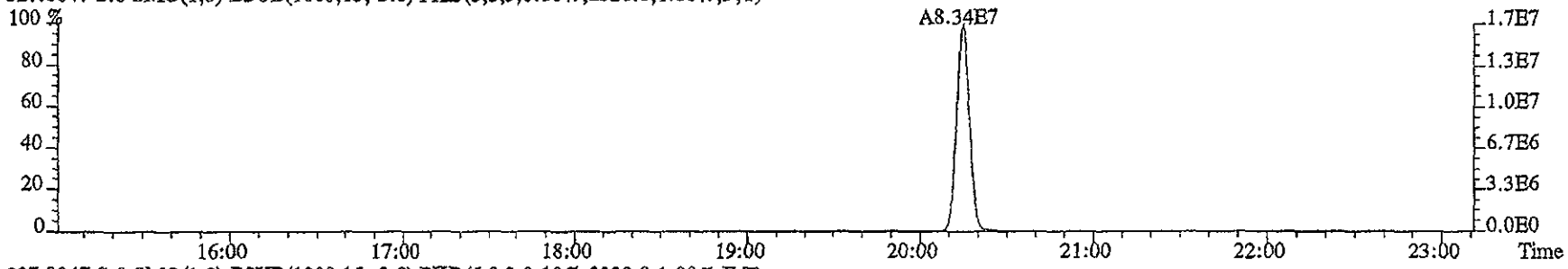


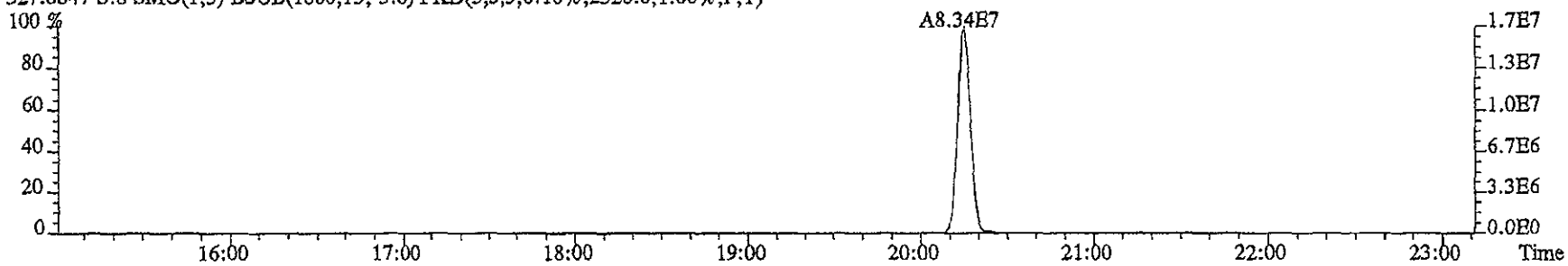


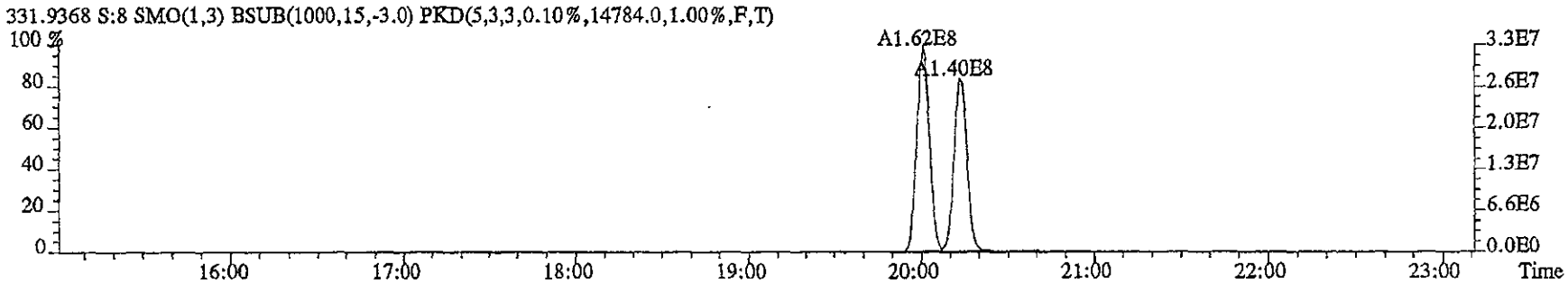
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES

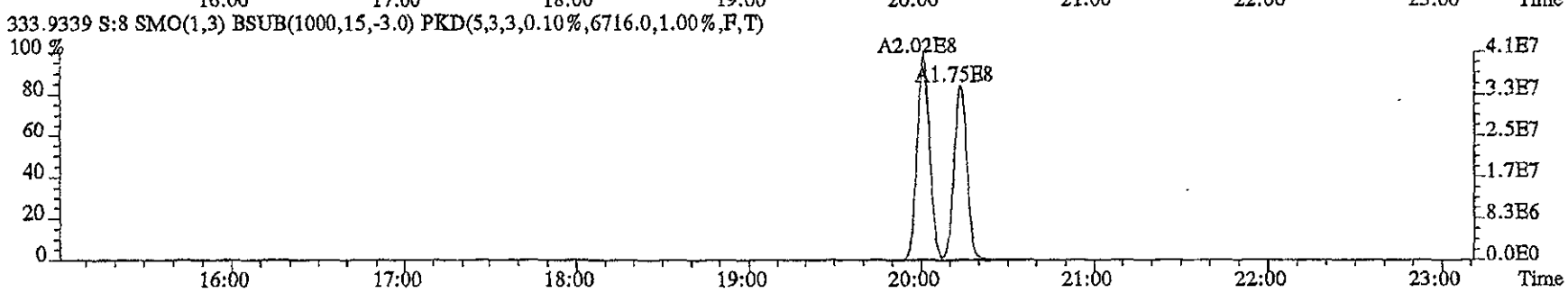


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES



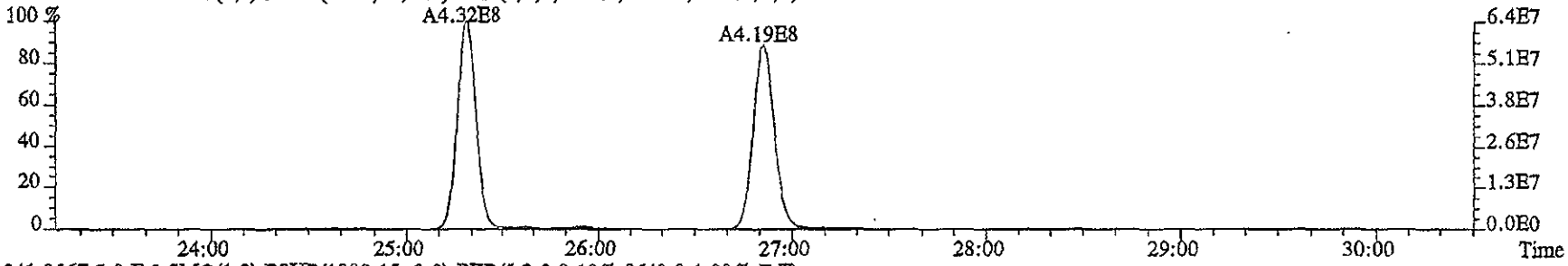




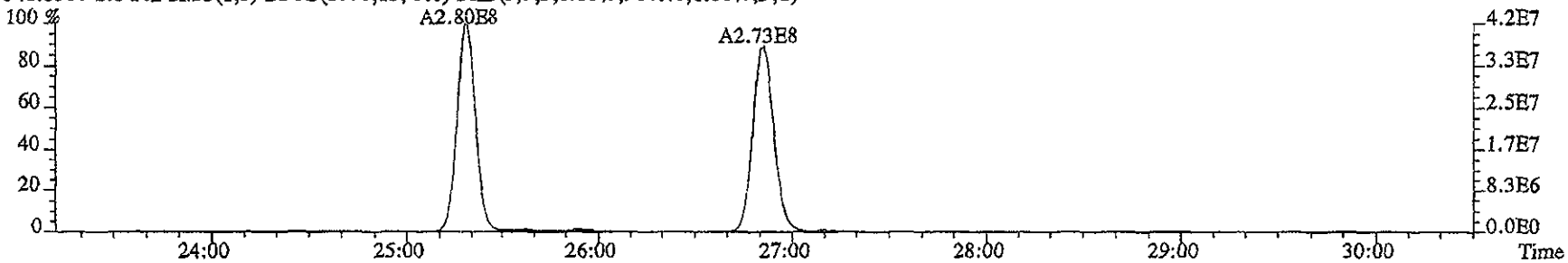


File:21JL10A4D5 #1-469 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES

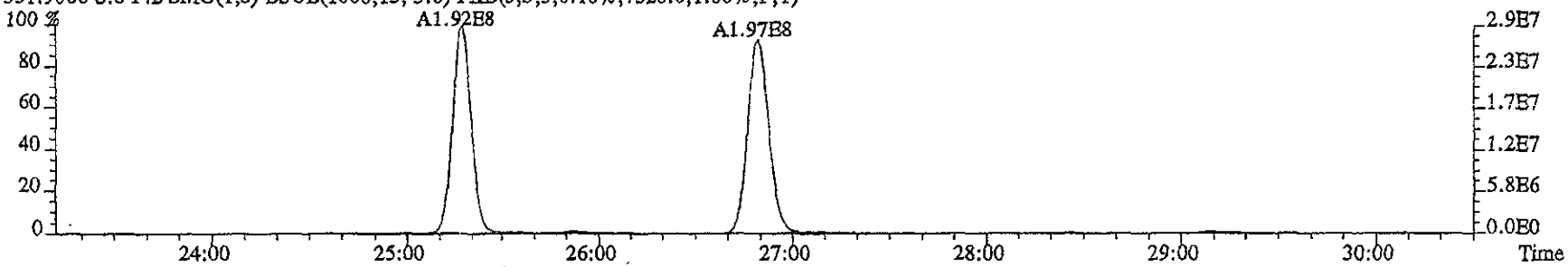
339.8597 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6412.0,1.00%,F,T)



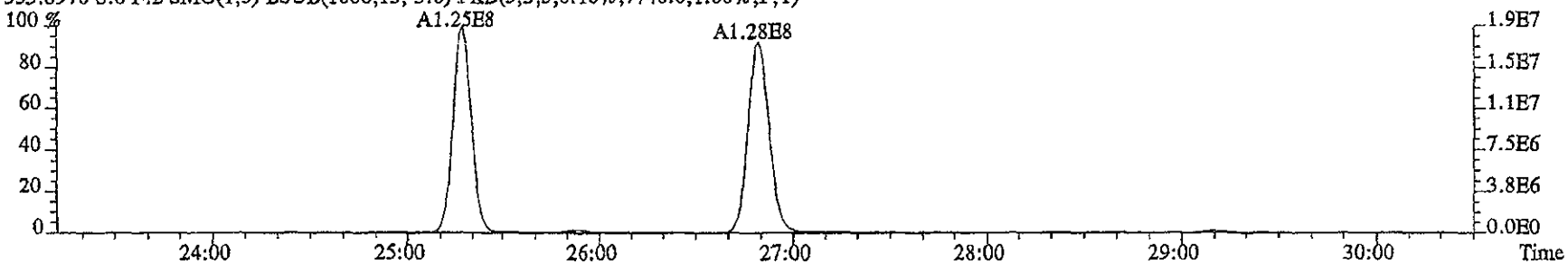
341.8567 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9640.0,1.00%,F,T)



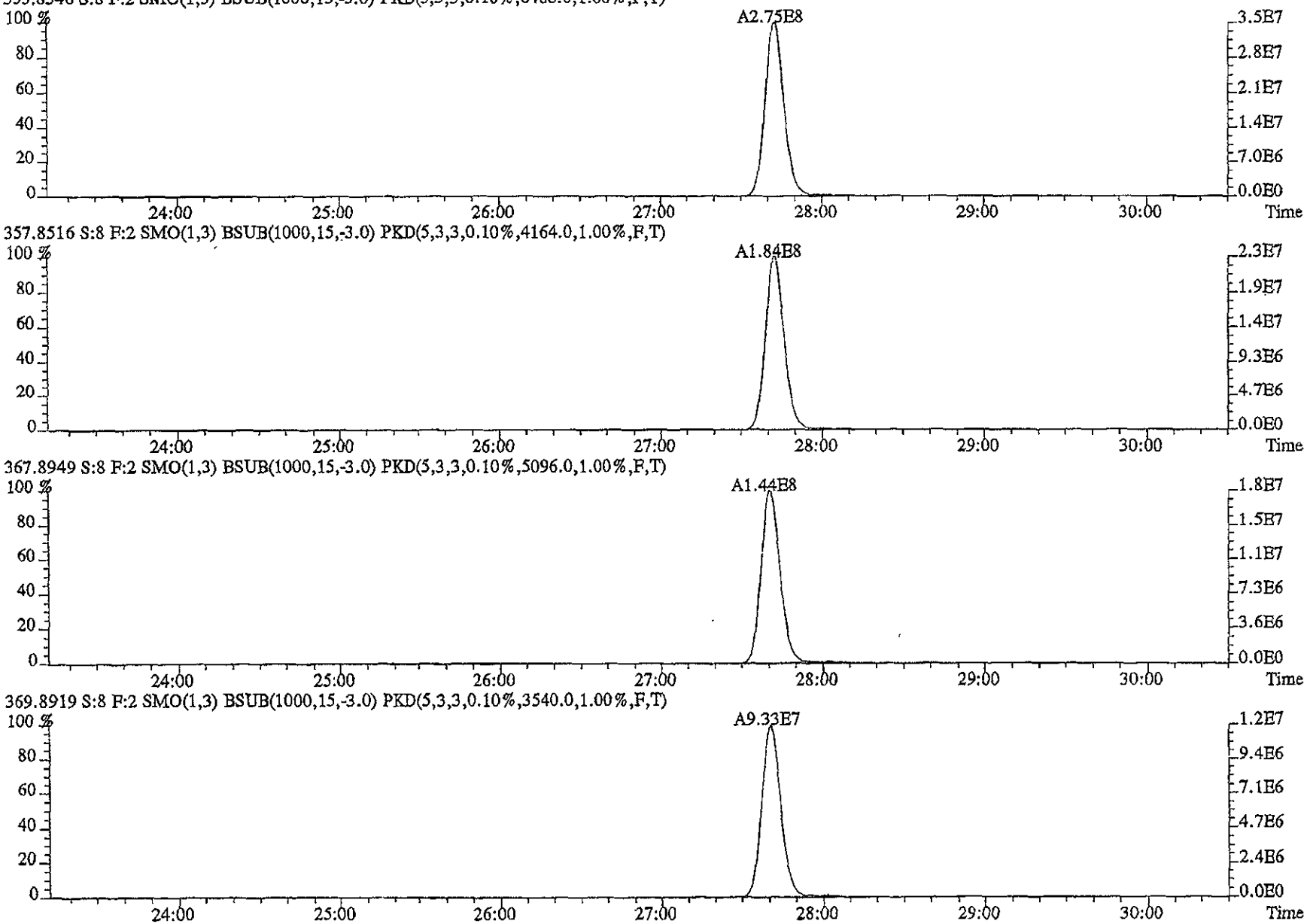
351.9000 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7520.0,1.00%,F,T)



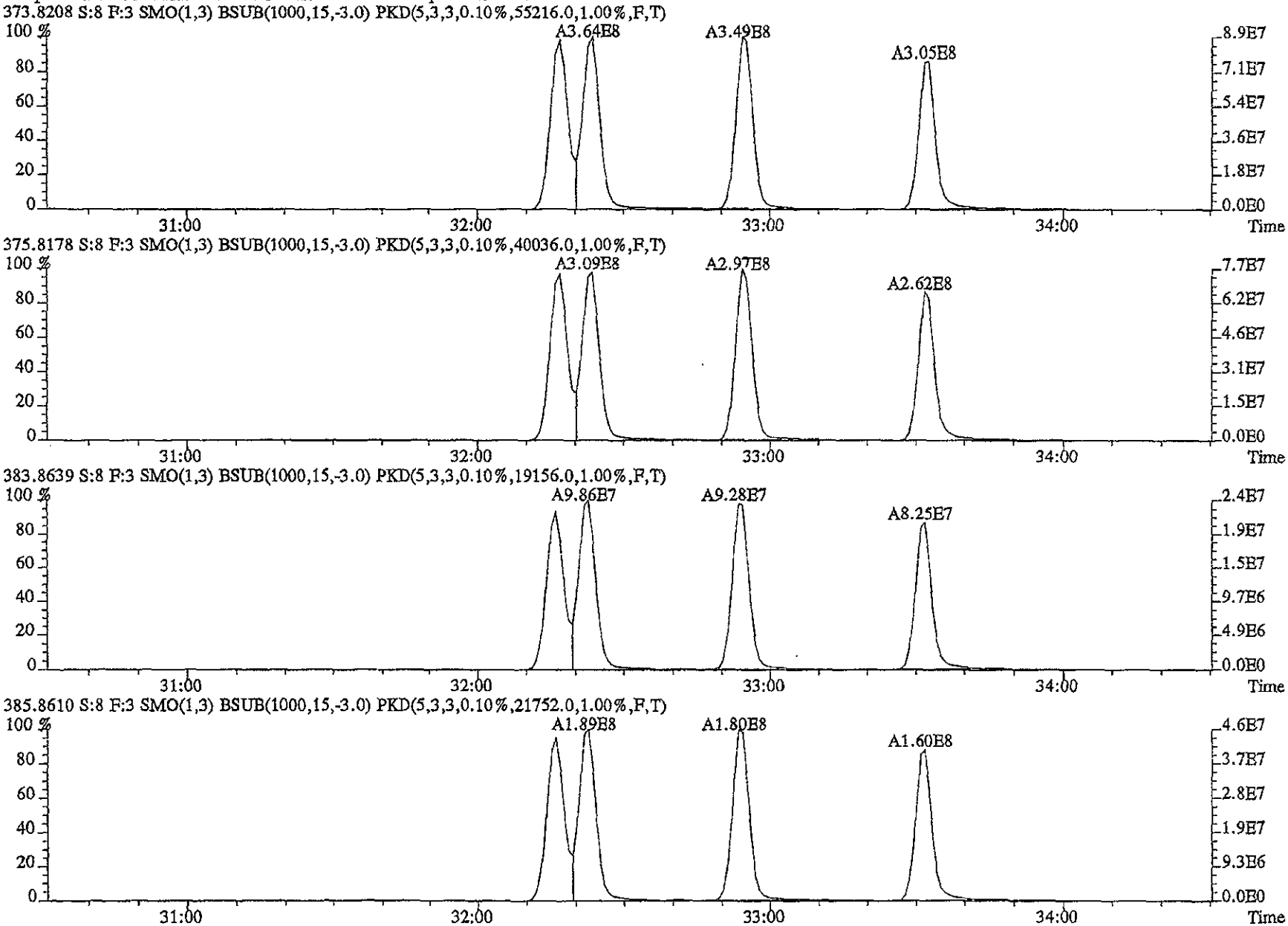
353.8970 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7740.0,1.00%,F,T)



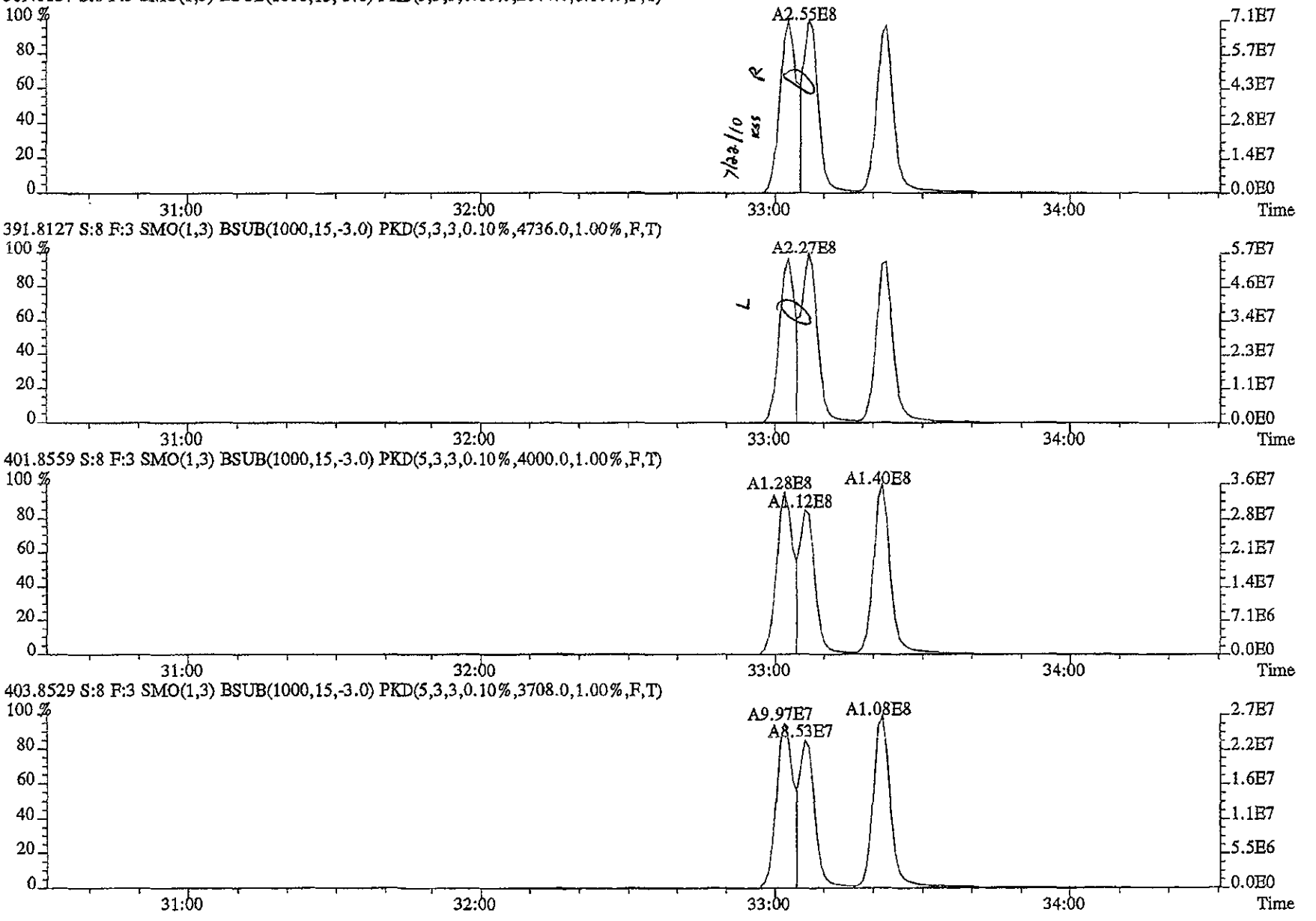
File:21JL10A4D5 #1-469 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES



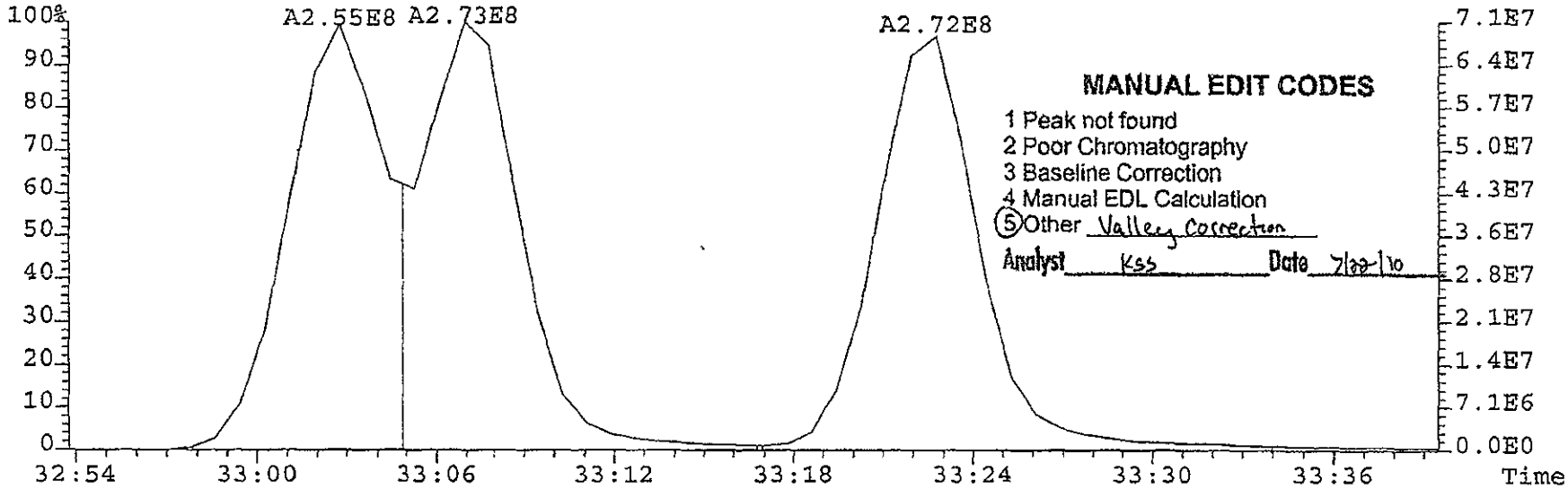
File:21JL10A4D5 #1-287 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES



File:21JL10A4D5 #1-287 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES



File:21JL10A4D5 #1-287 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES
389.8157 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2644.0,1.00%,F,T)

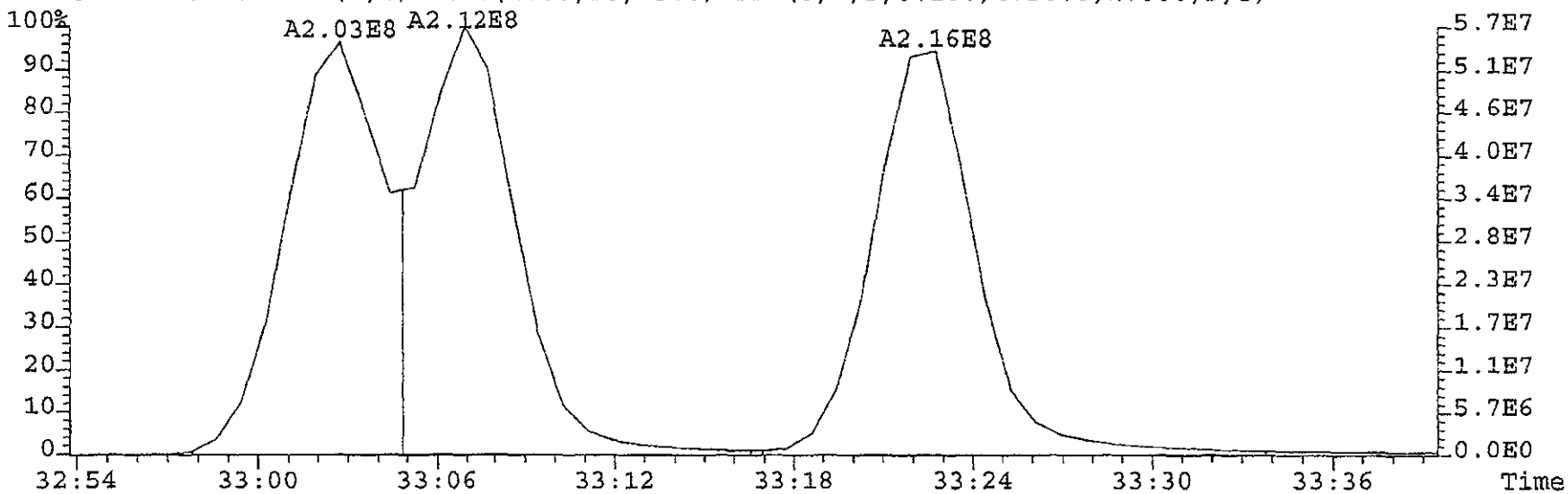


MANUAL EDIT CODES

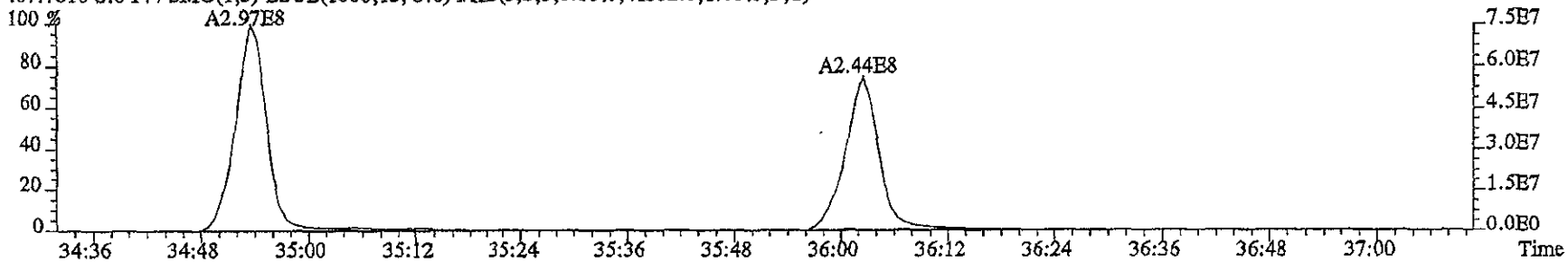
1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
(5) Other Valley correction

Analyst KSS Date 7/22/10

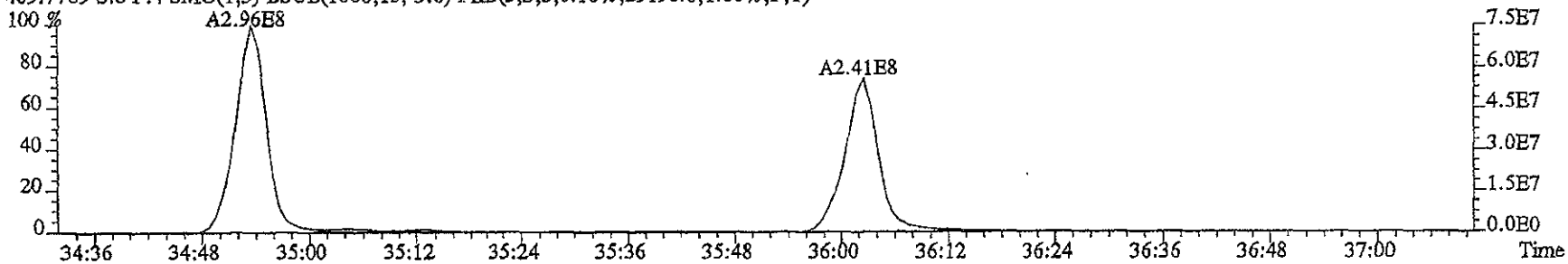
391.8127 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4736.0,1.00%,F,T)



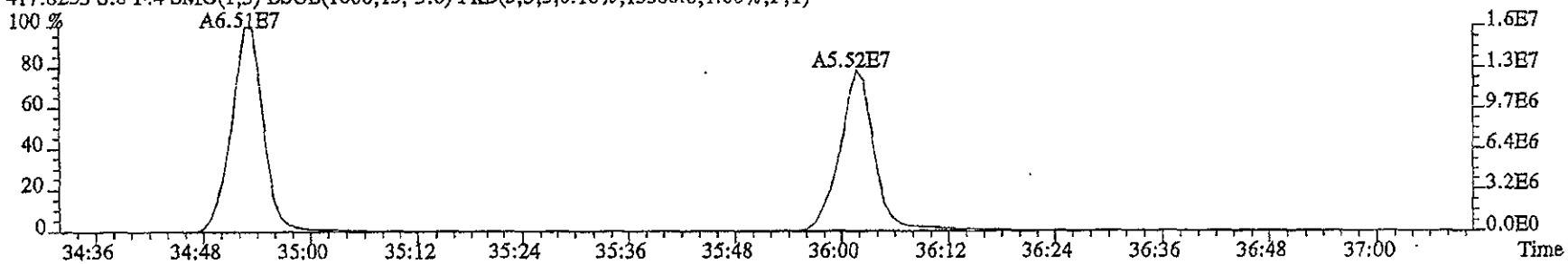
File:21JL10A4D5 #1-201 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES
407.7818 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,41352.0,1.00%,F,T)



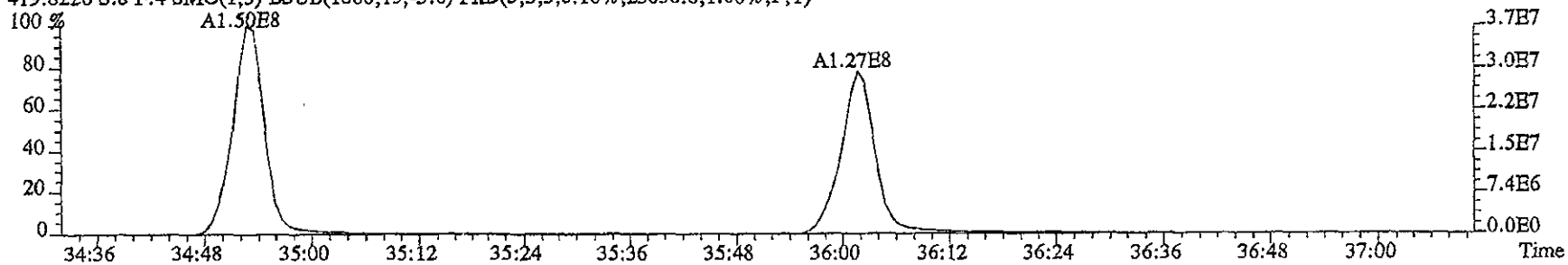
409.7789 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,29196.0,1.00%,F,T)



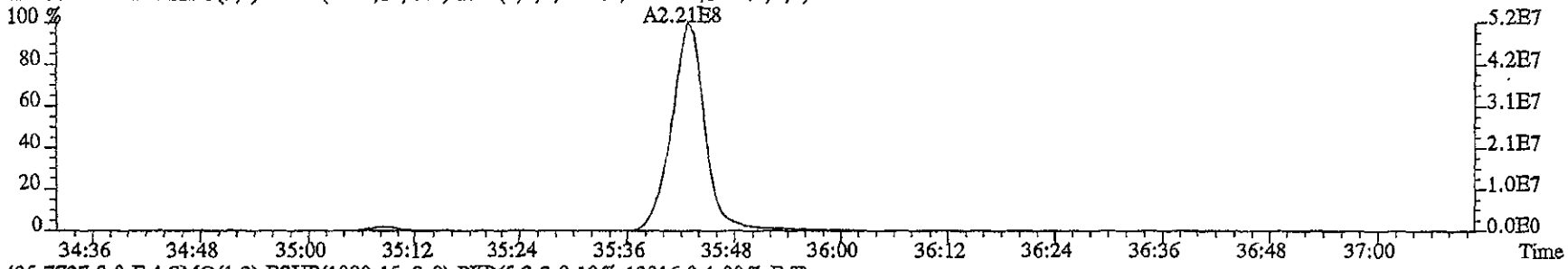
417.8253 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13580.0,1.00%,F,T)



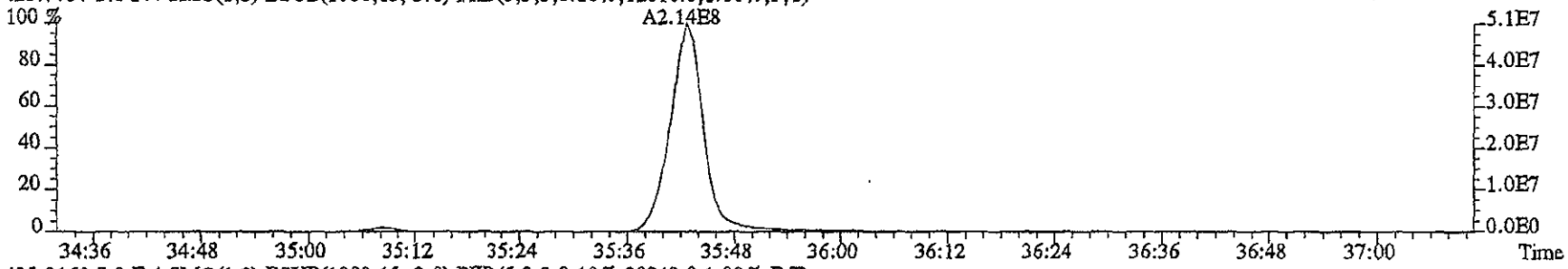
419.8220 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23056.0,1.00%,F,T)



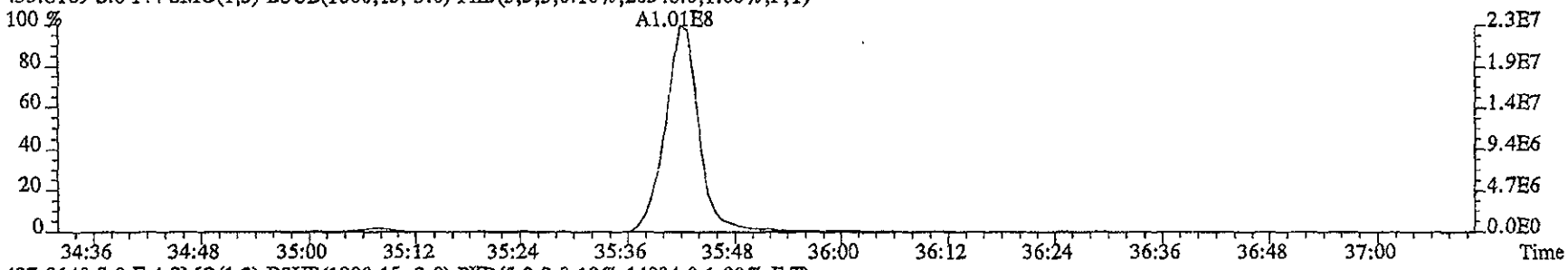
File:21JL10A4D5 #1-201 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES
423.7766 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14020.0,1.00%,F,T)



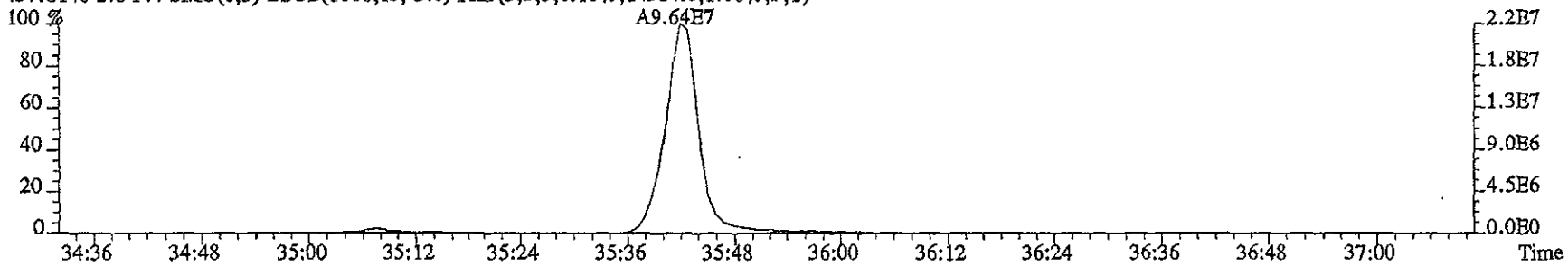
425.7737 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12016.0,1.00%,F,T)



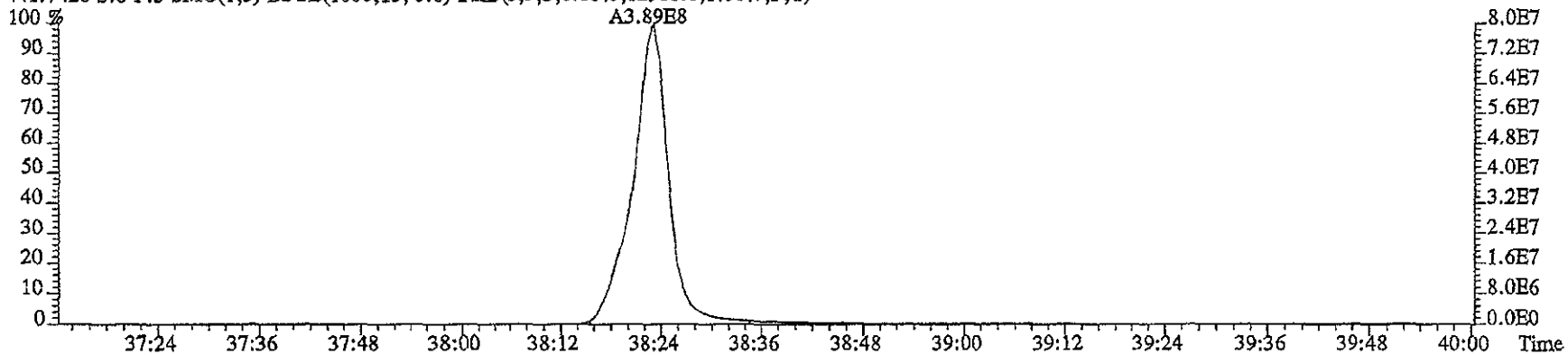
435.8169 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20348.0,1.00%,F,T)



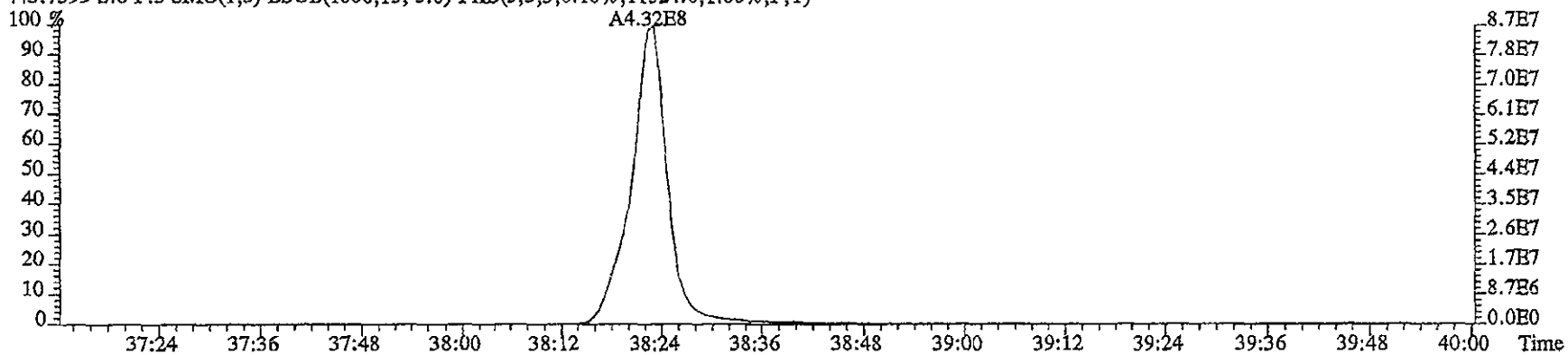
437.8140 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14984.0,1.00%,F,T)



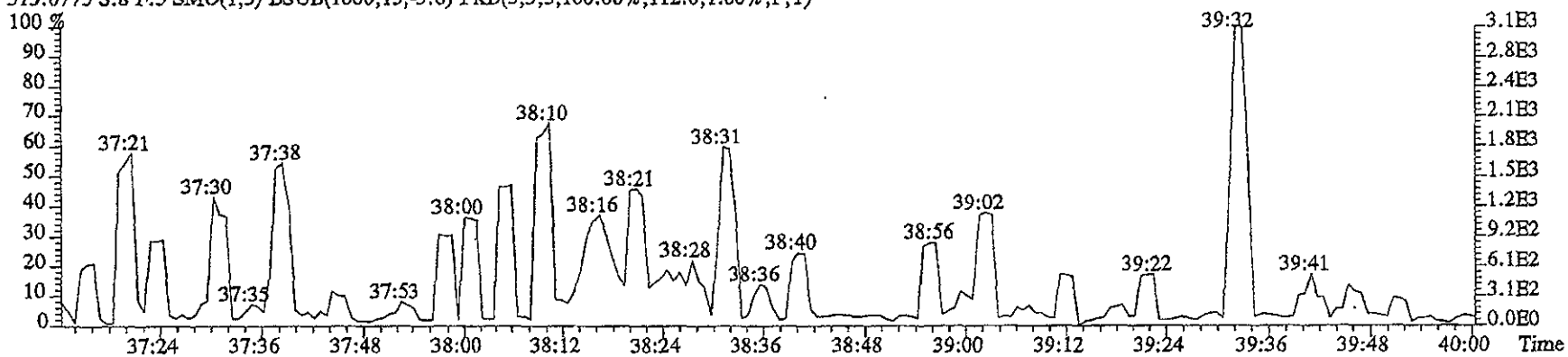
File:21JL10A4D5 #1-227 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES
441.7428 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12968.0,1.00%,F,T)



443.7399 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11524.0,1.00%,F,T)

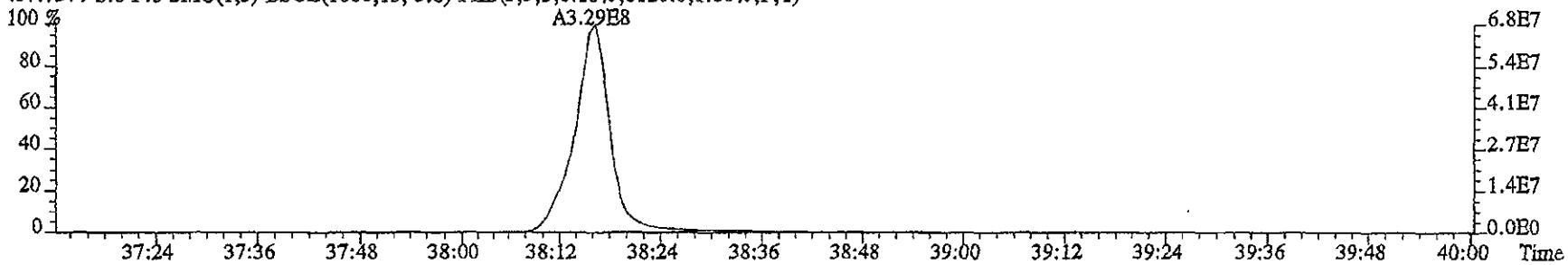


513.6775 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,112.0,1.00%,F,T)

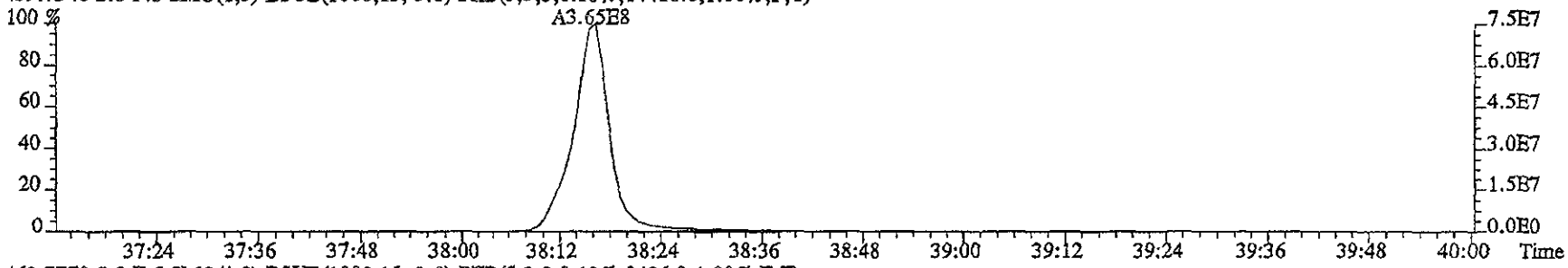


File:21JL10A4D5 #1-227 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES

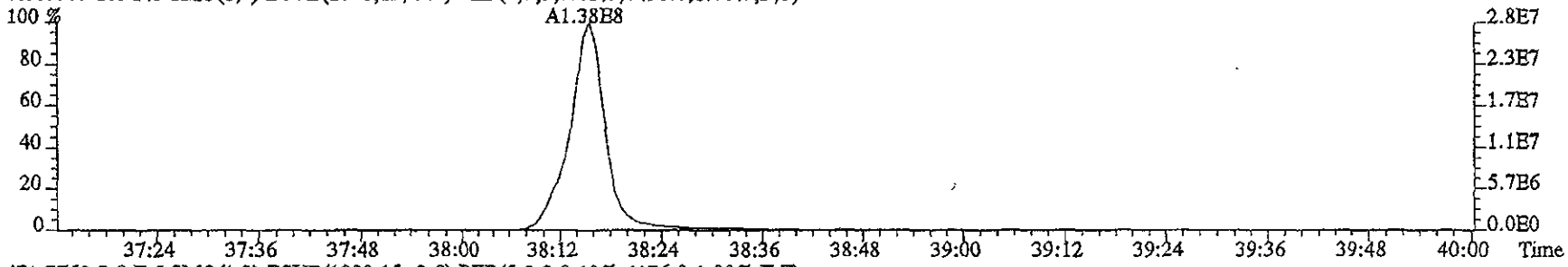
457.7377 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8120.0,1.00%,F,T)



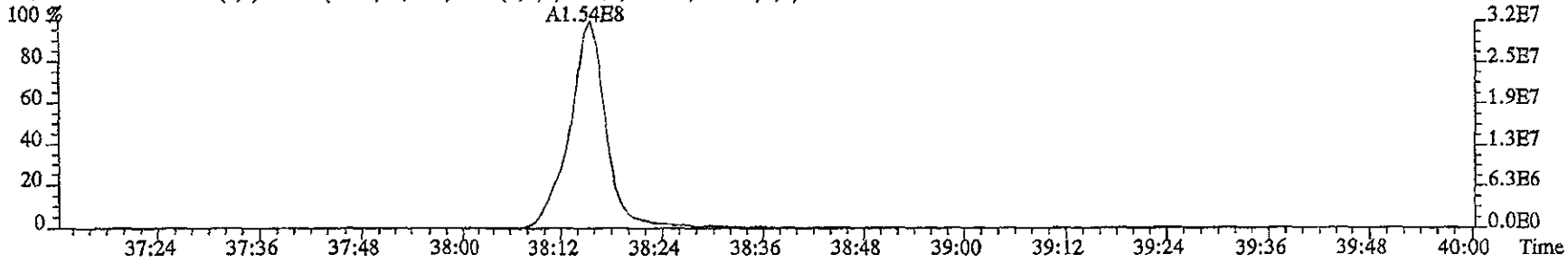
459.7348 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14416.0,1.00%,F,T)



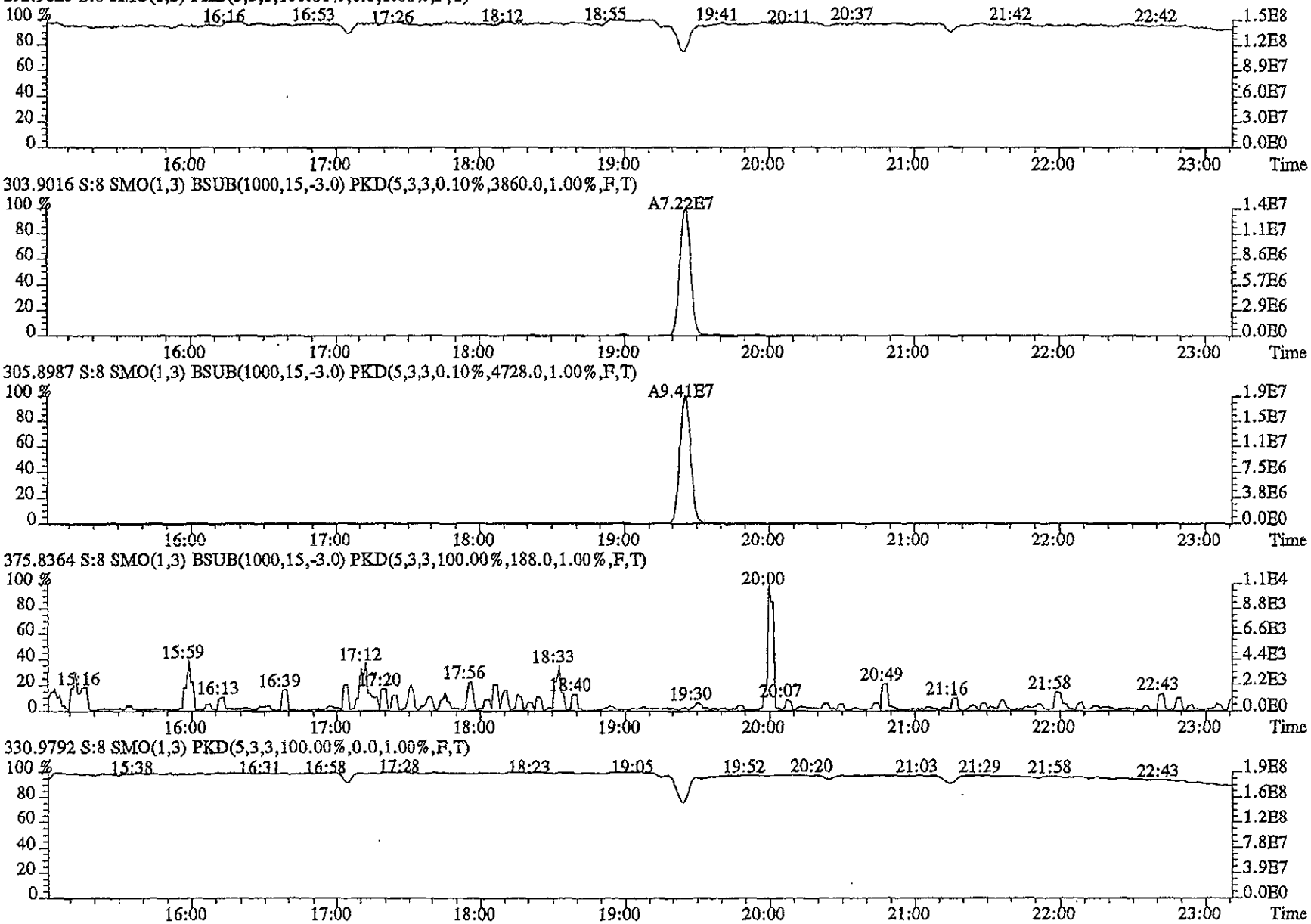
469.7779 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8496.0,1.00%,F,T)



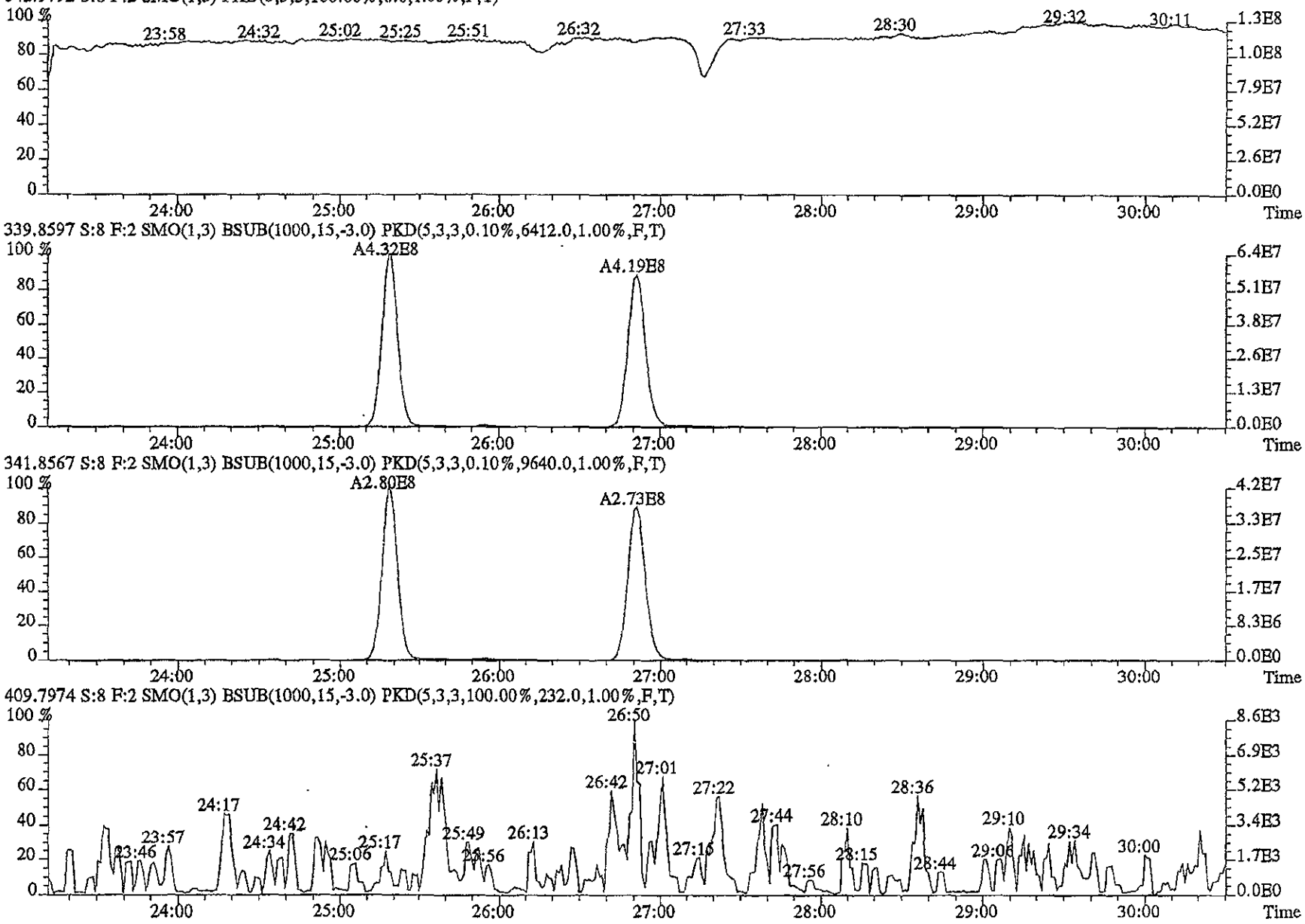
471.7750 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4176.0,1.00%,F,T)



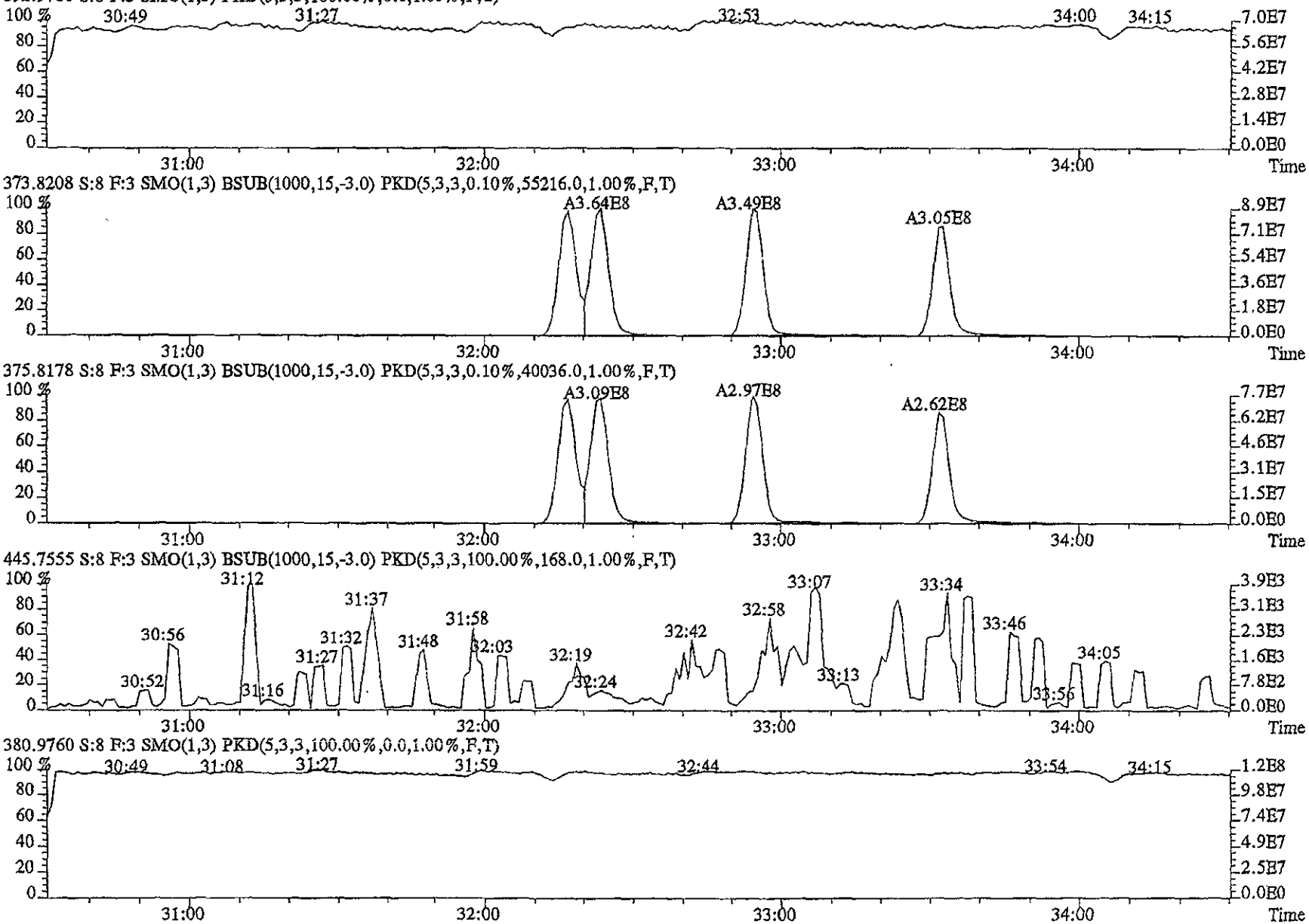
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES



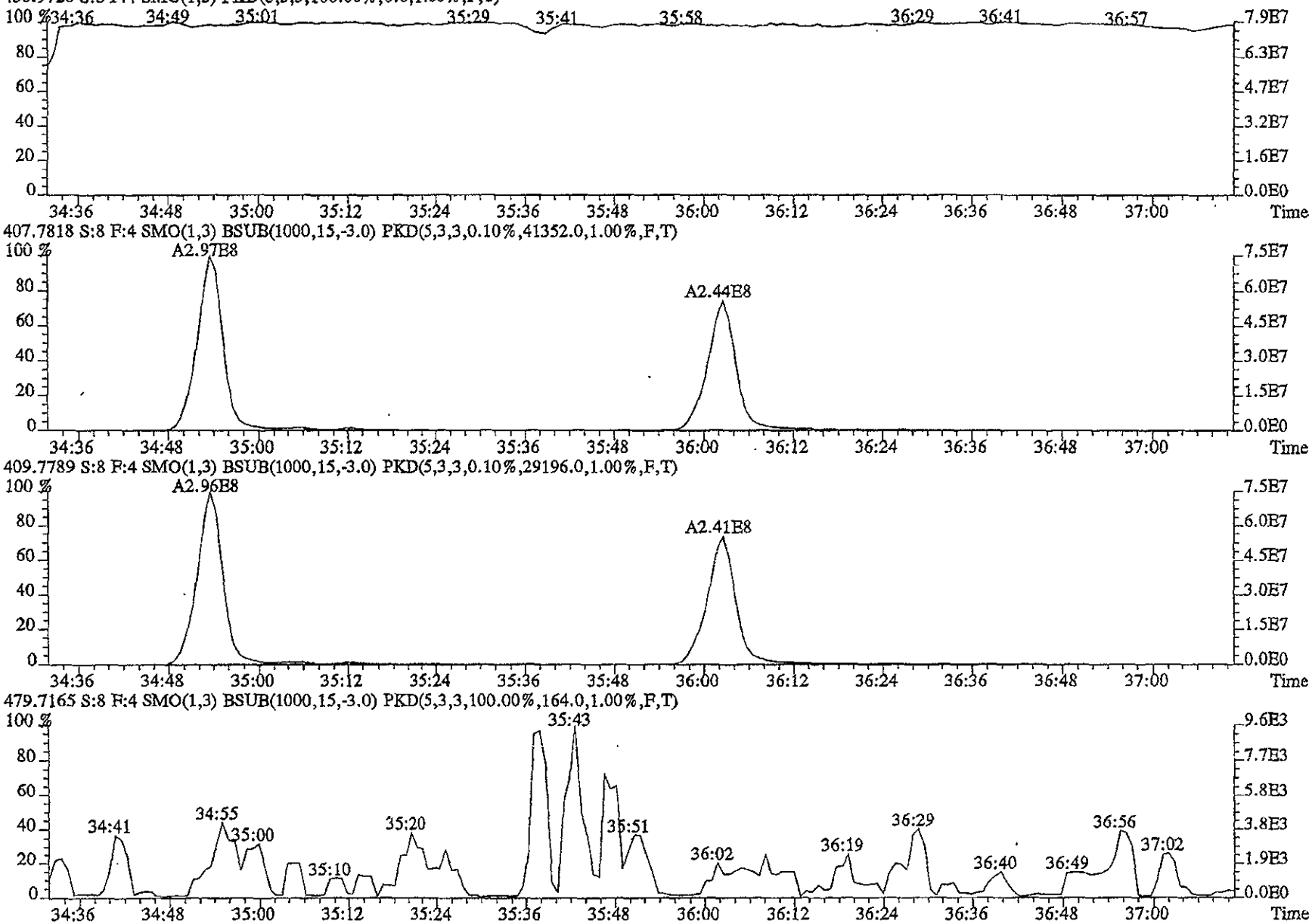
File:21JL10A4D5 #1-469 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES



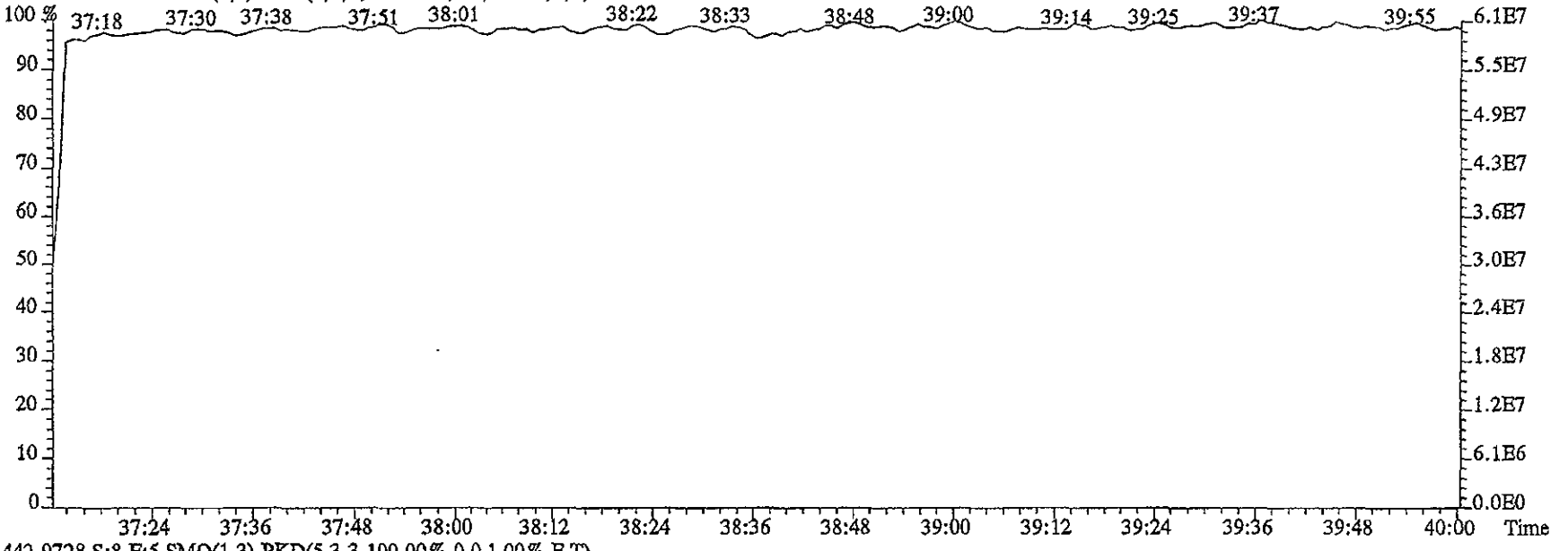
File:21JL10A4D5 #1-287 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES



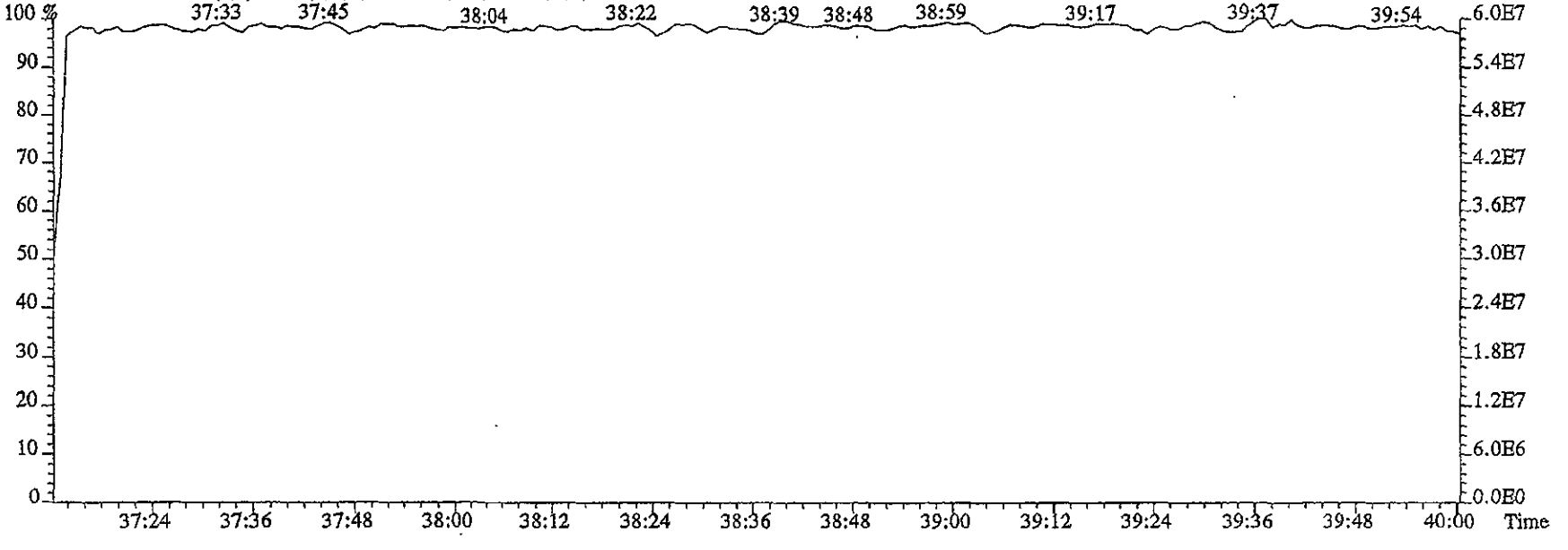
File:21JL10A4D5 #1-201 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES



File:21JL10A4D5 #1-227 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES
454.9728 S:8 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

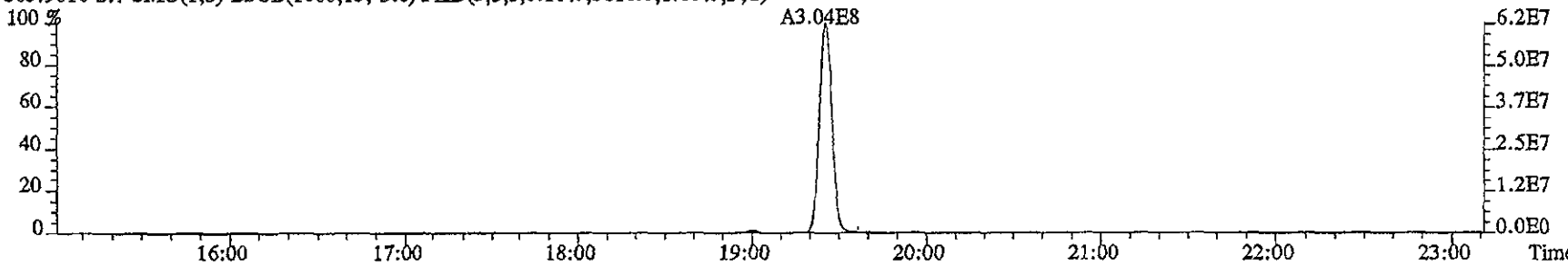


442.9728 S:8 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

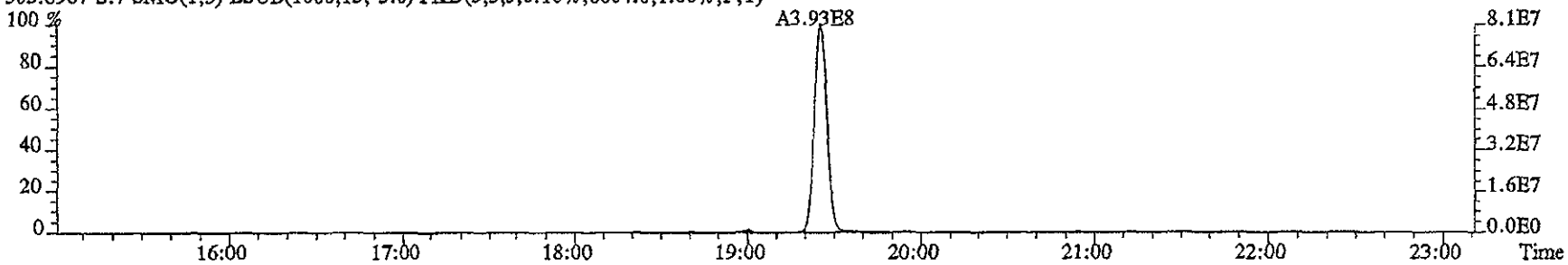


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES

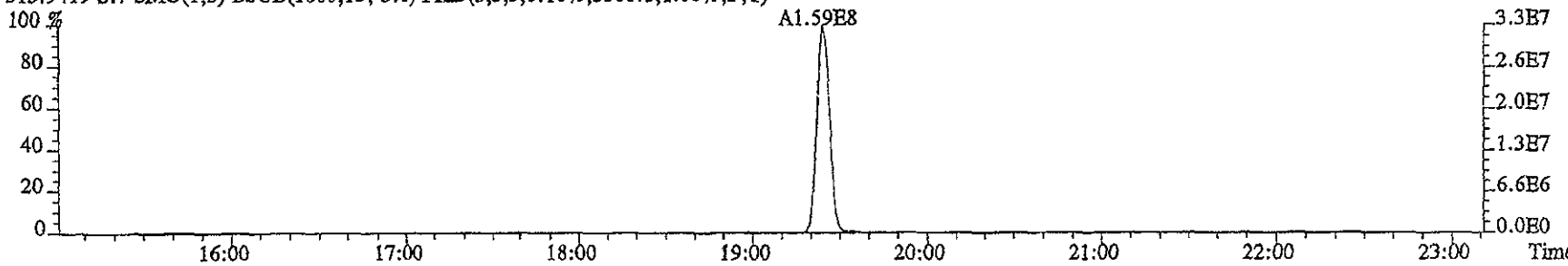
303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3616.0,1.00%,F,T)



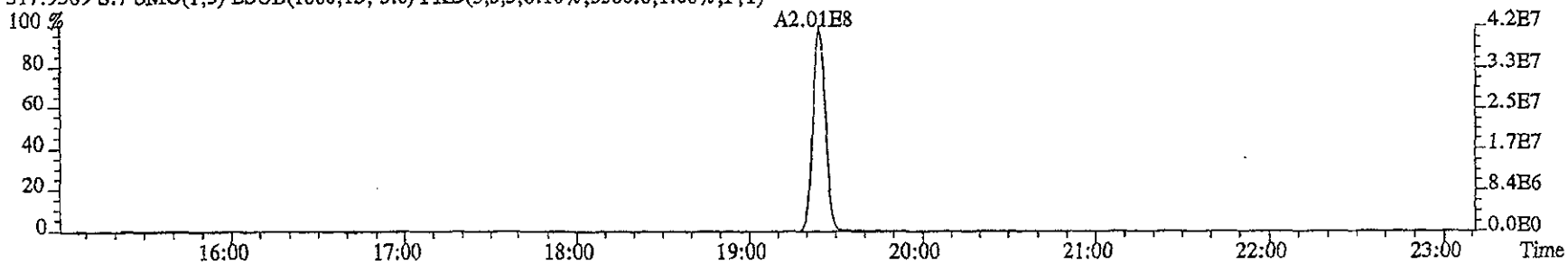
305.8987 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6604.0,1.00%,F,T)



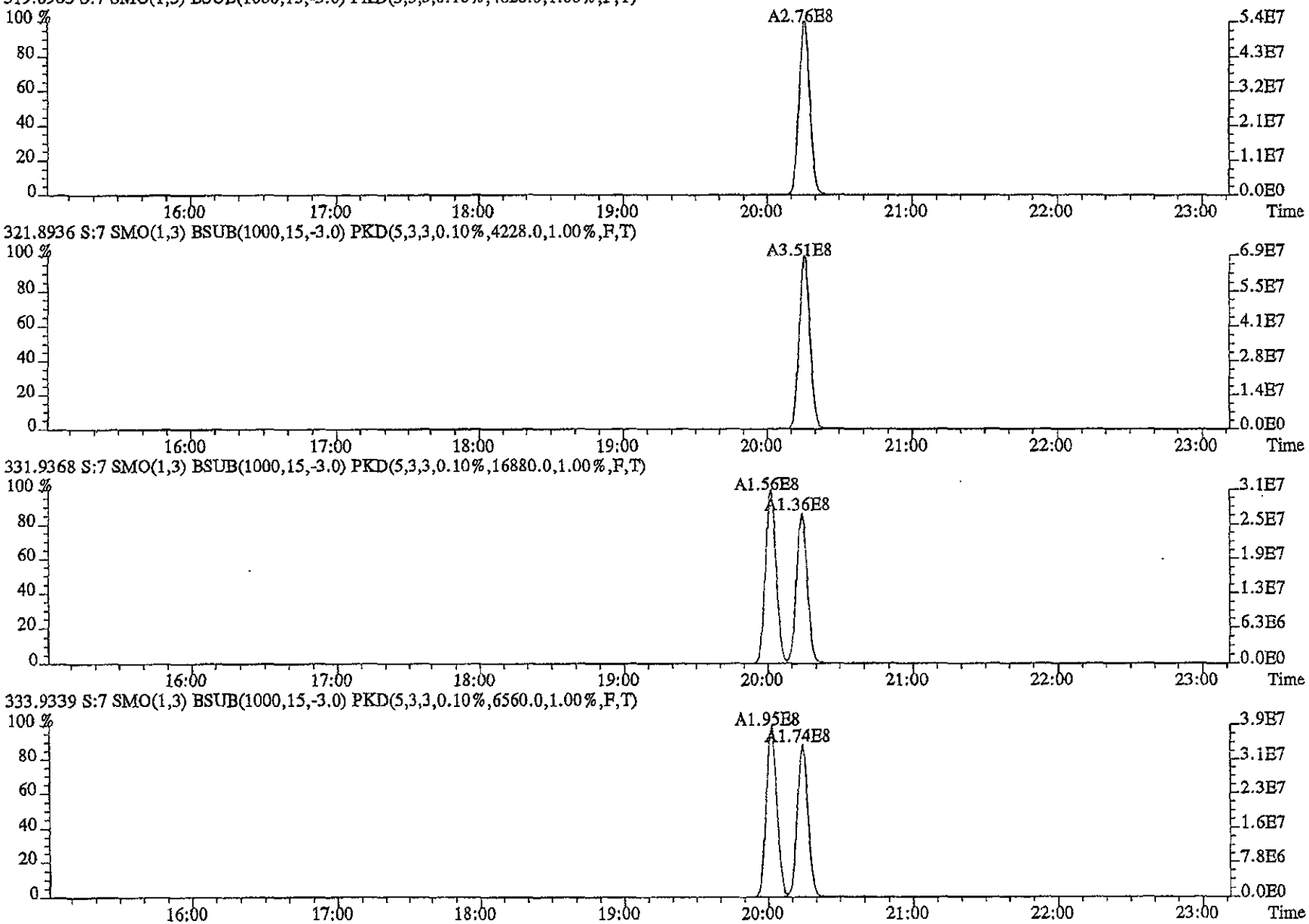
315.9419 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5588.0,1.00%,F,T)



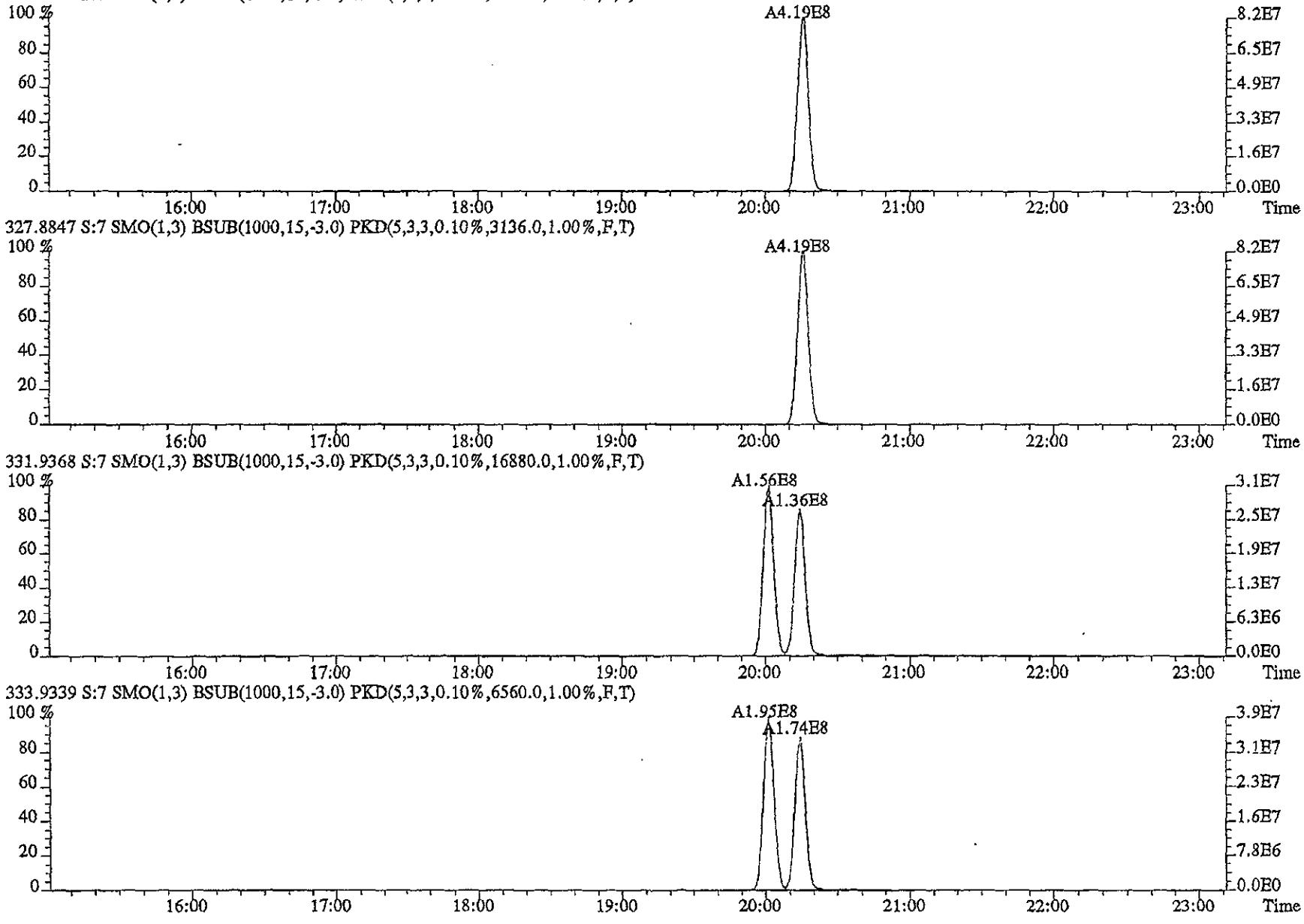
317.9389 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5580.0,1.00%,F,T)



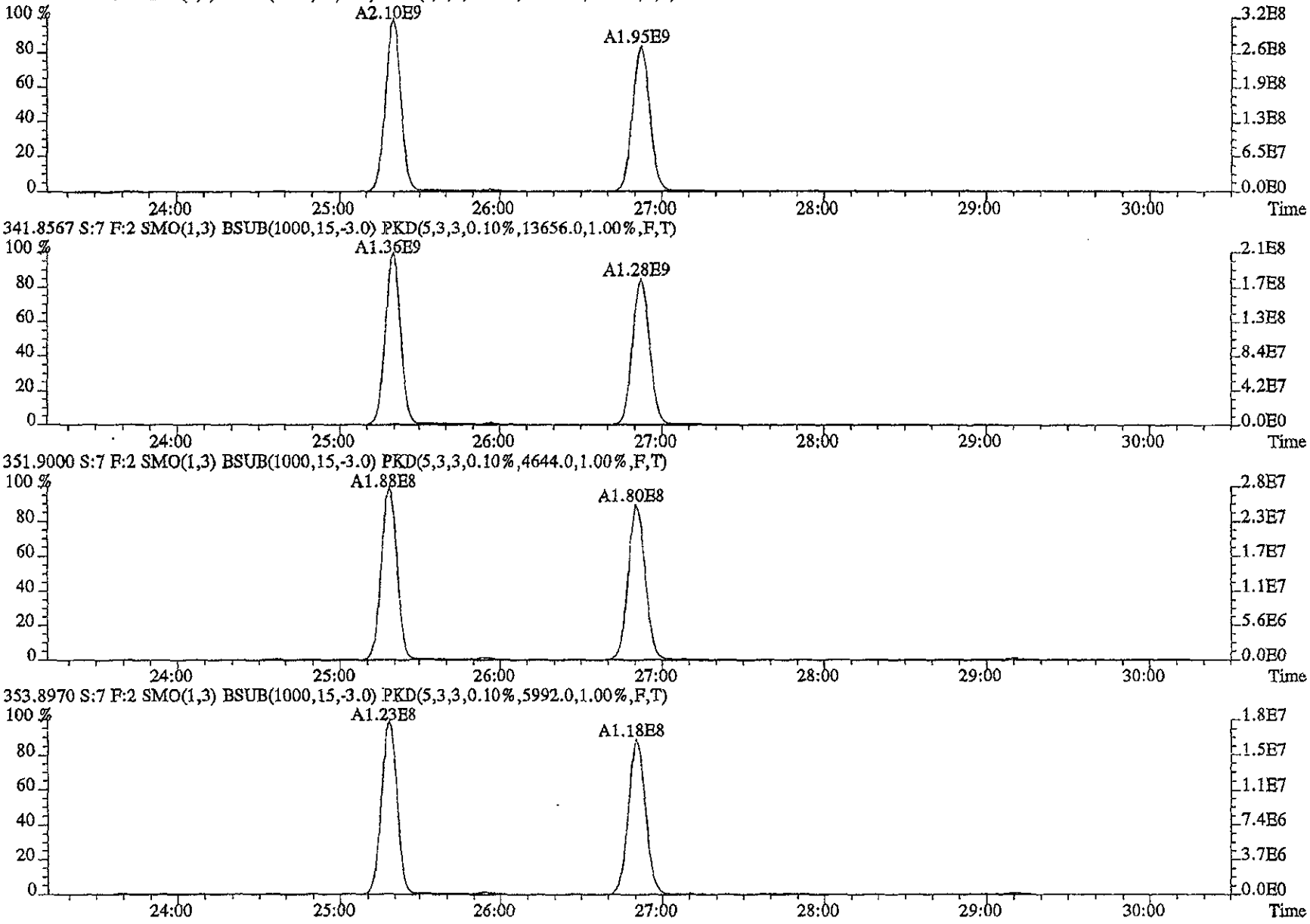
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES



File:21JL10A4D5 #1-541 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES

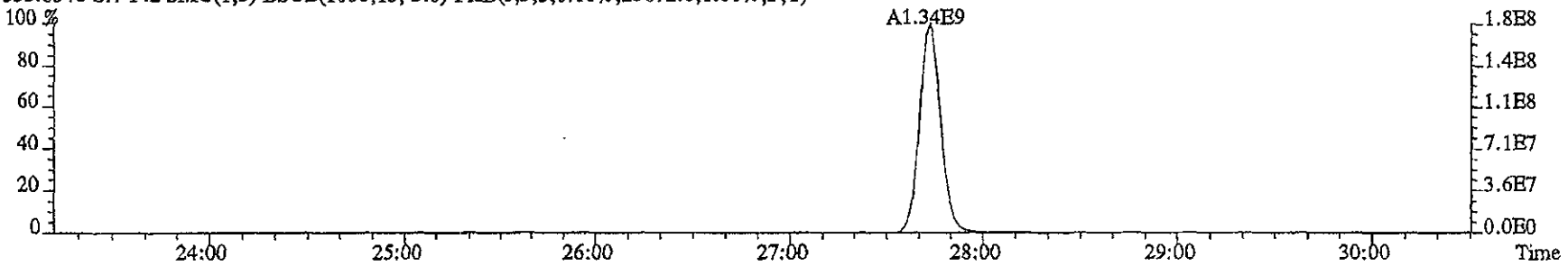


File:21JL10A4D5 #1-469 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES

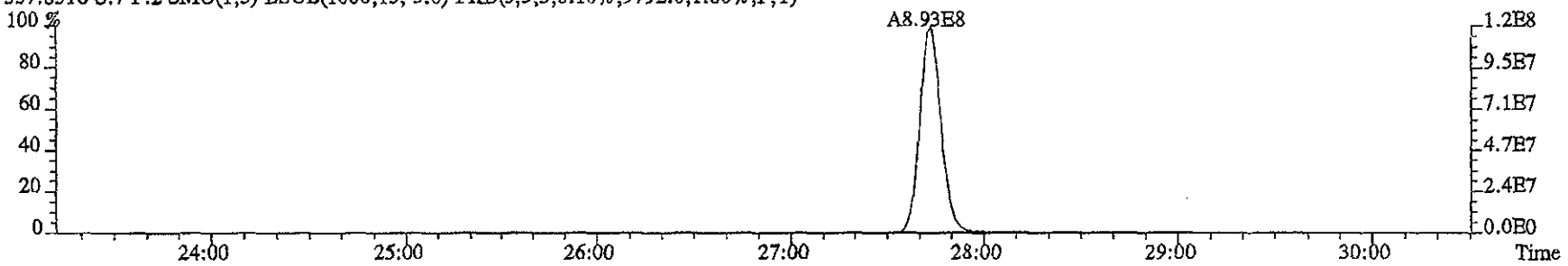


File:21JL10A4D5 #1-469 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES

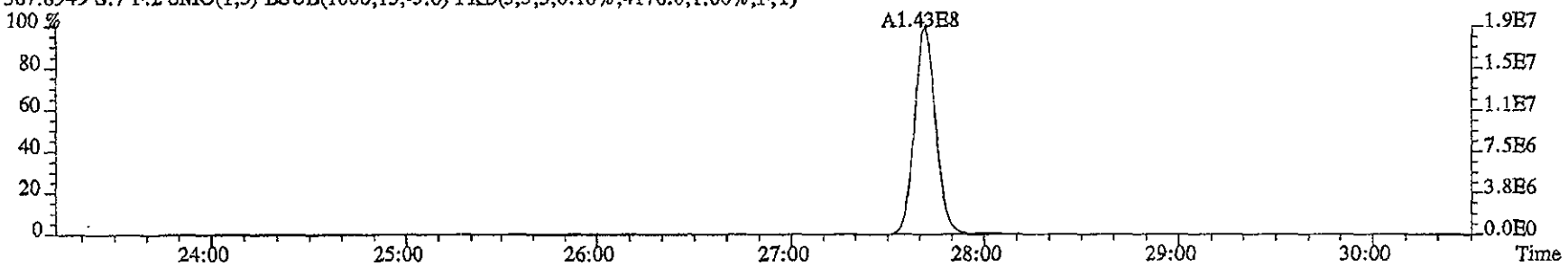
355.8546 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,25872.0,1.00%,F,T)



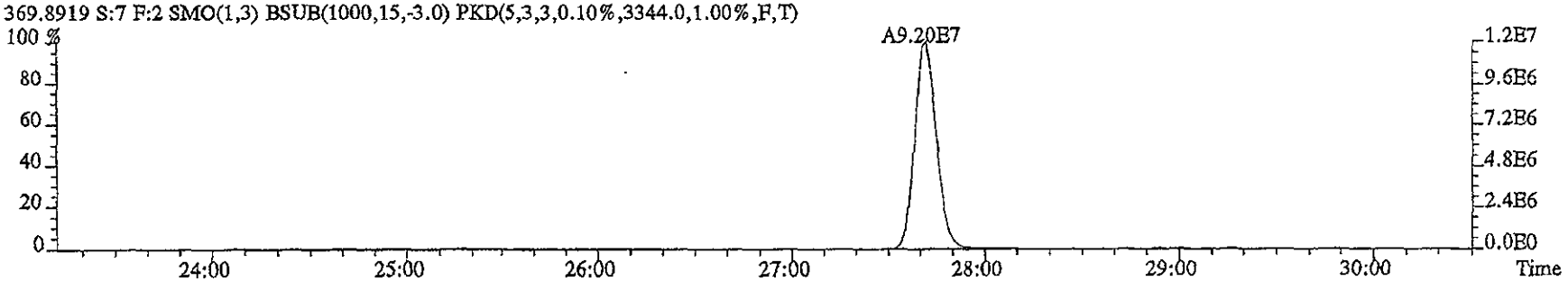
357.8516 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9792.0,1.00%,F,T)

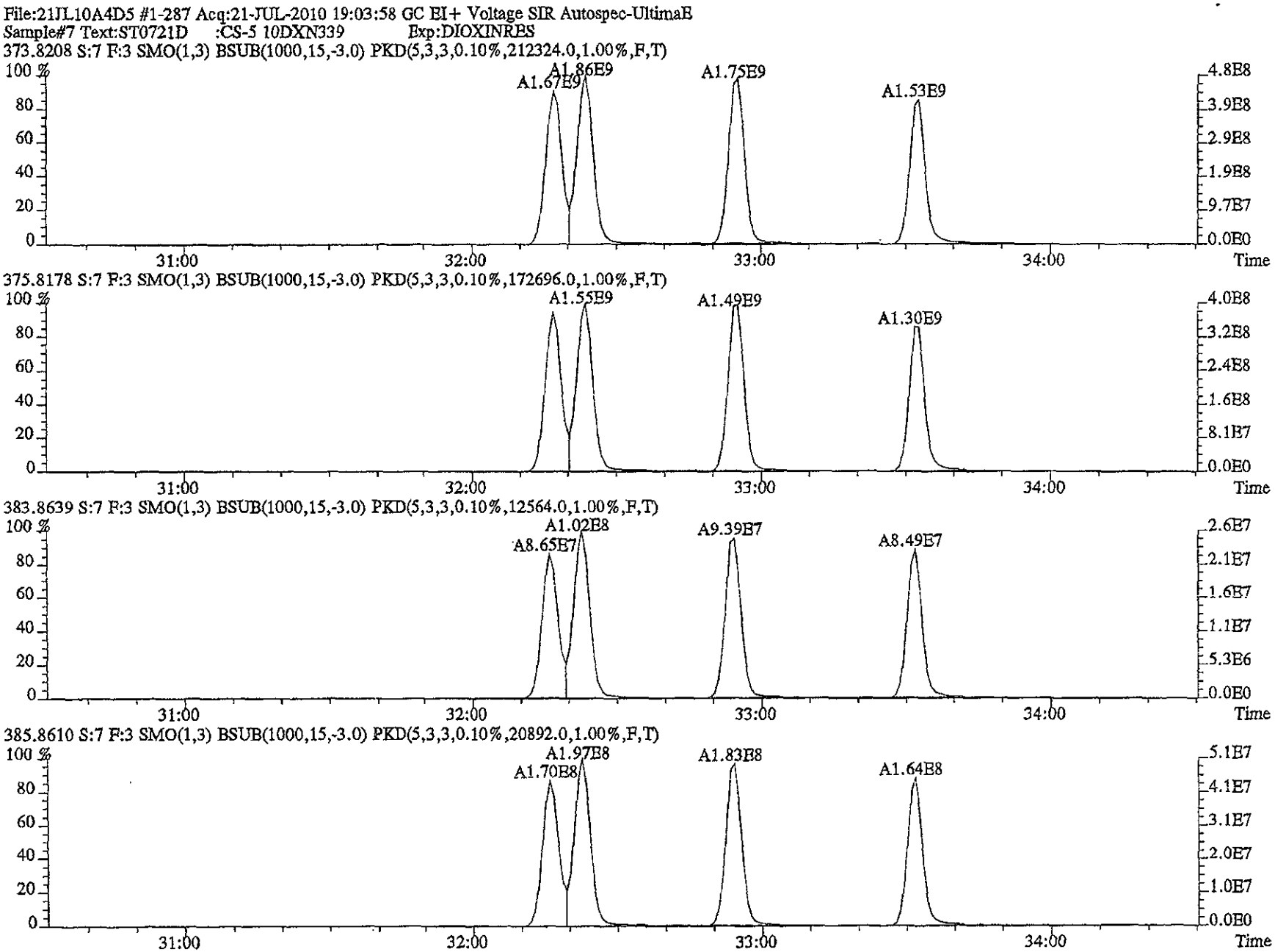


367.8949 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4176.0,1.00%,F,T)



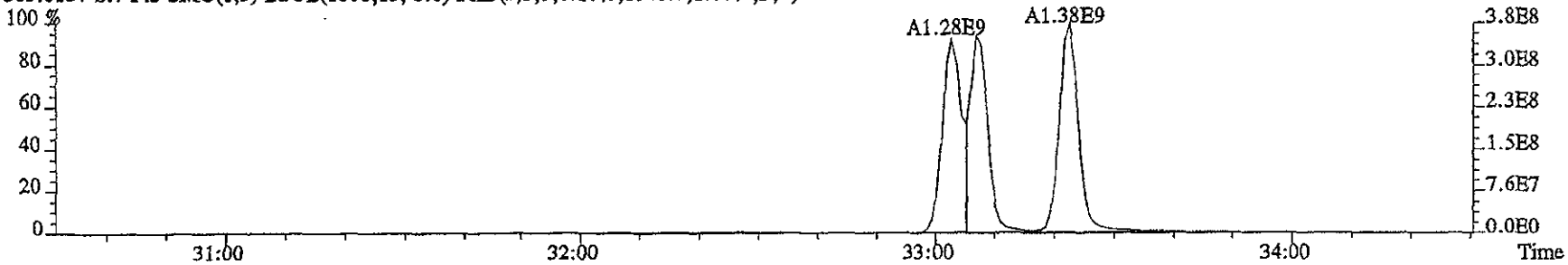
369.8919 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3344.0,1.00%,F,T)



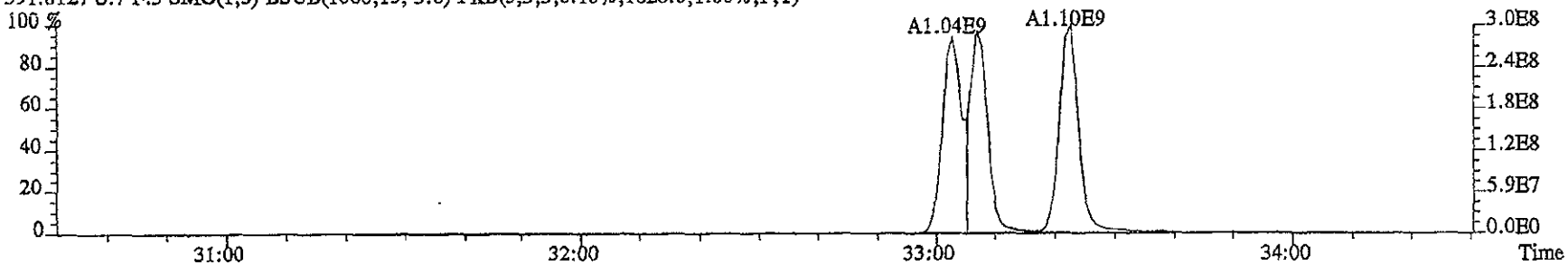

File:21JL10A4D5 #1-287 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES
373.8208 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,212324.0,1.00%,F,T)
A1.67E9
A1.86E9
A1.75E9
A1.53E9
375.8178 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,172696.0,1.00%,F,T)
A1.55E9
A1.49E9
A1.30E9
383.8639 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12564.0,1.00%,F,T)
A8.65E7
A1.02E8
A9.39E7
A8.49E7
385.8610 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20892.0,1.00%,F,T)
A1.70E8
A1.97E8
A1.83E8
A1.64E8
100 %
80
60
40
20
0
31:00
32:00
33:00
34:00
Time
4.8E8
3.9E8
2.9E8
1.9E8
9.7E7
0.0E0
4.0E8
3.2E8
2.4E8
1.6E8
8.1E7
0.0E0
2.6E7
2.1E7
1.6E7
1.1E7
5.3E6
0.0E0
5.1E7
4.1E7
3.1E7
2.0E7
1.0E7
0.0E0

File:21JL10A4D5 #1-287 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES

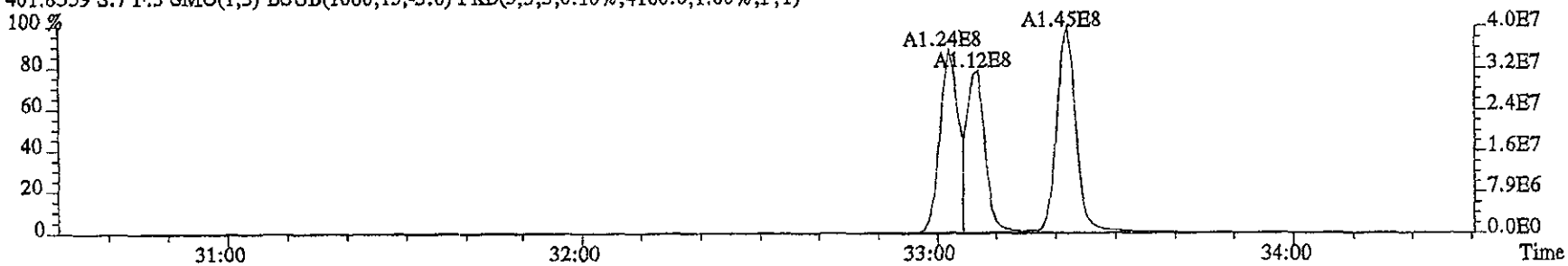
389.8157 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1340.0,1.00%,F,T)



391.8127 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1628.0,1.00%,F,T)

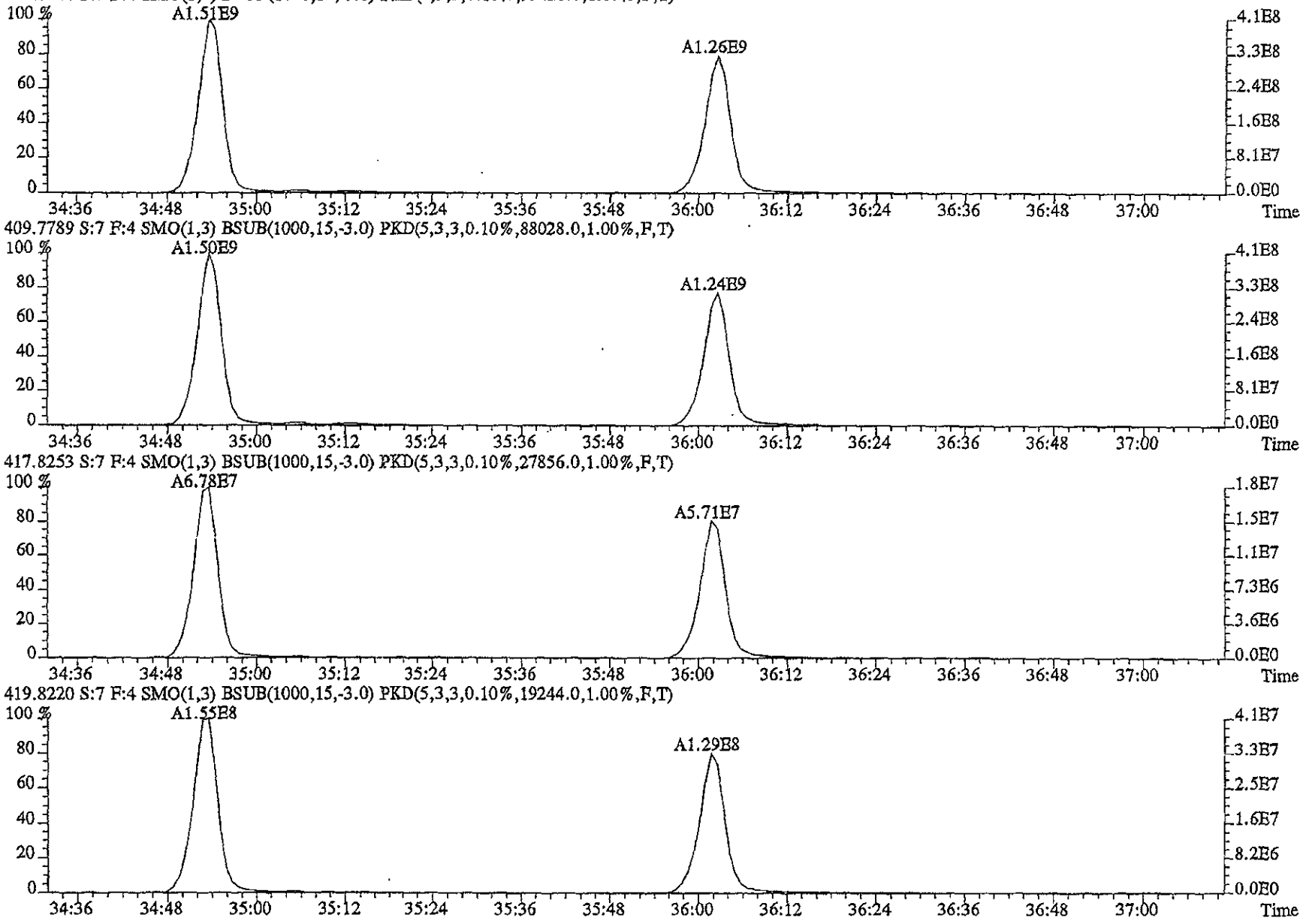


401.8559 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4160.0,1.00%,F,T)



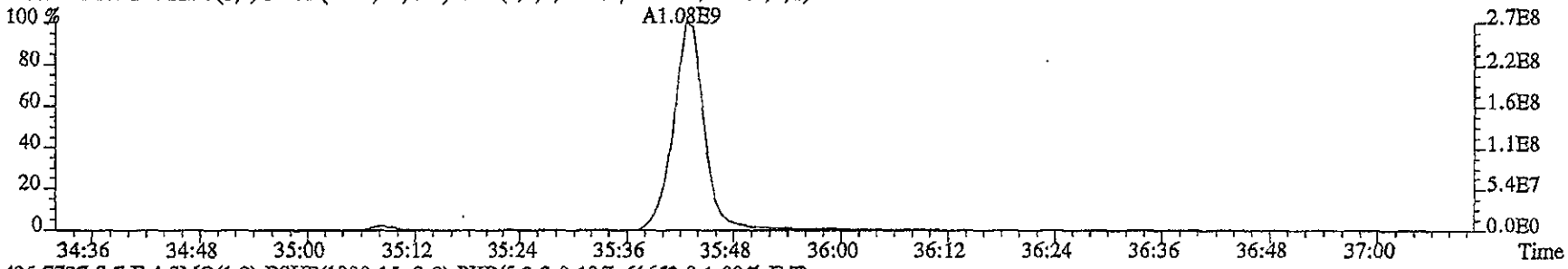
403.8529 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13360.0,1.00%,F,T)

File:21JL10A4D5 #1-201 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES

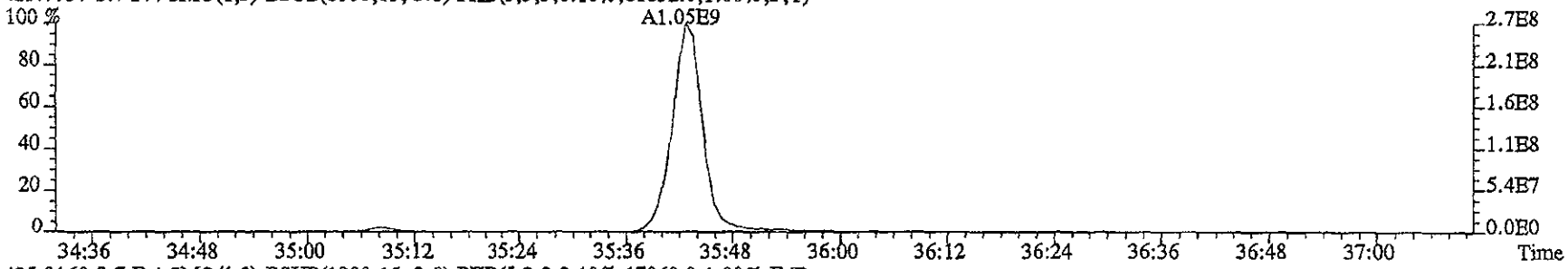


File:21JL10A4D5 #1-201 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaB
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES

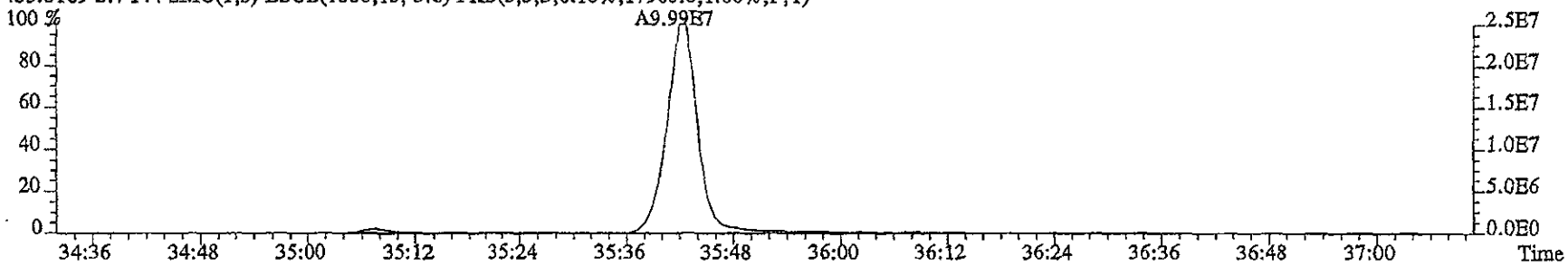
423.7766 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,75680.0,1.00%,F,T)



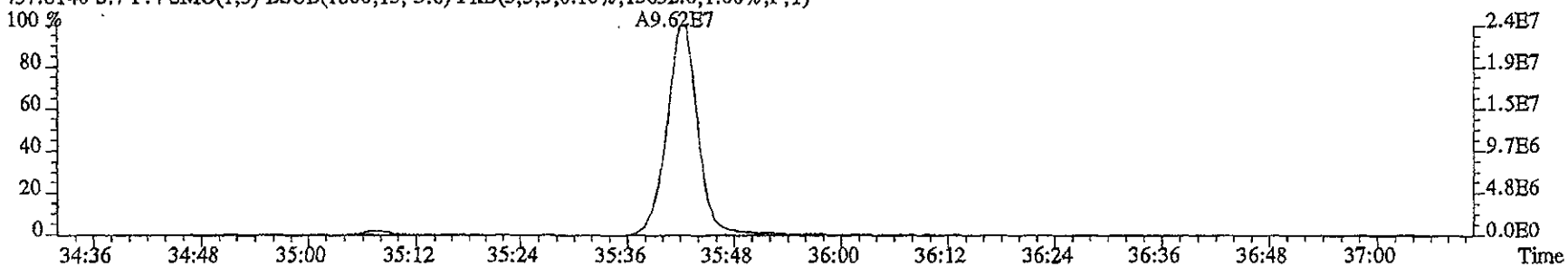
425.7737 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,61652.0,1.00%,F,T)



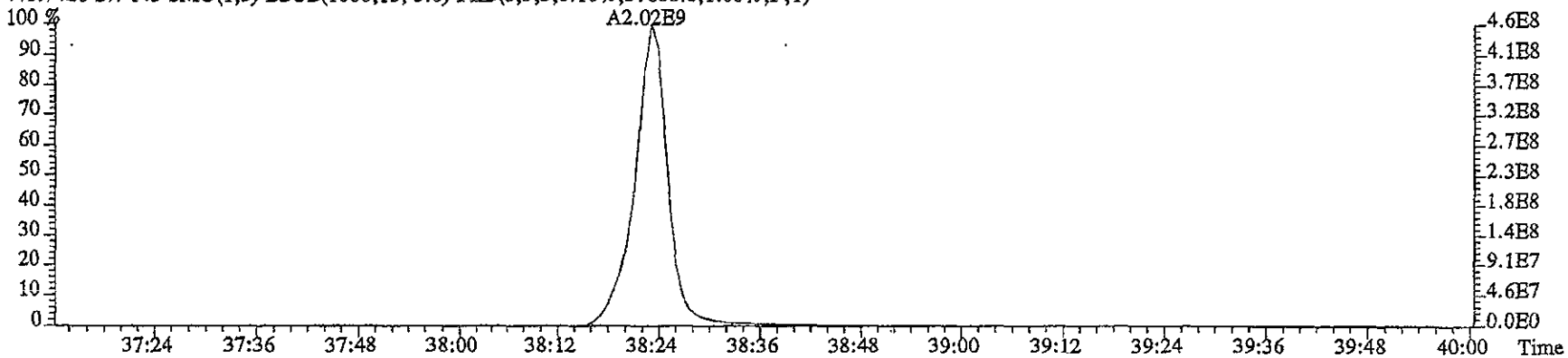
435.8169 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17960.0,1.00%,F,T)



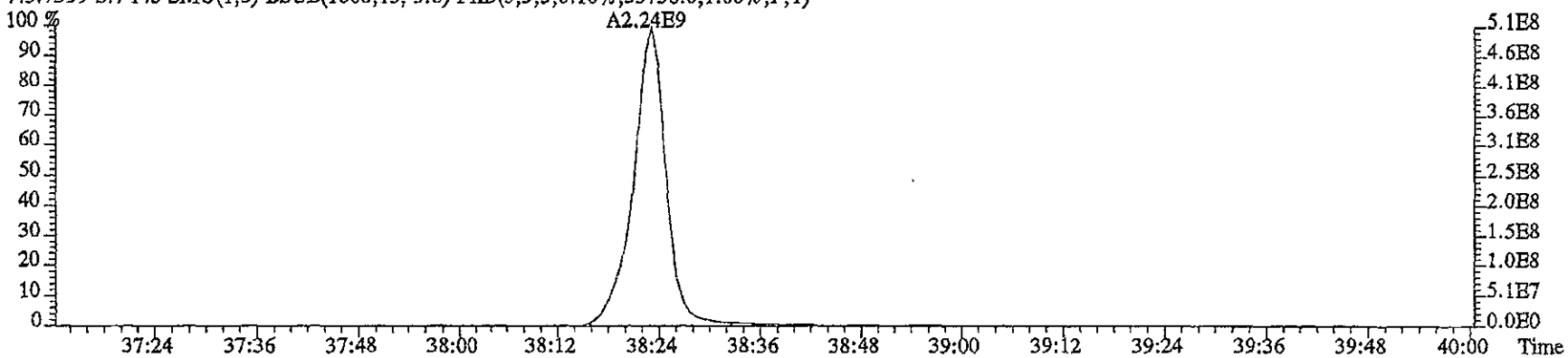
437.8140 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13632.0,1.00%,F,T)



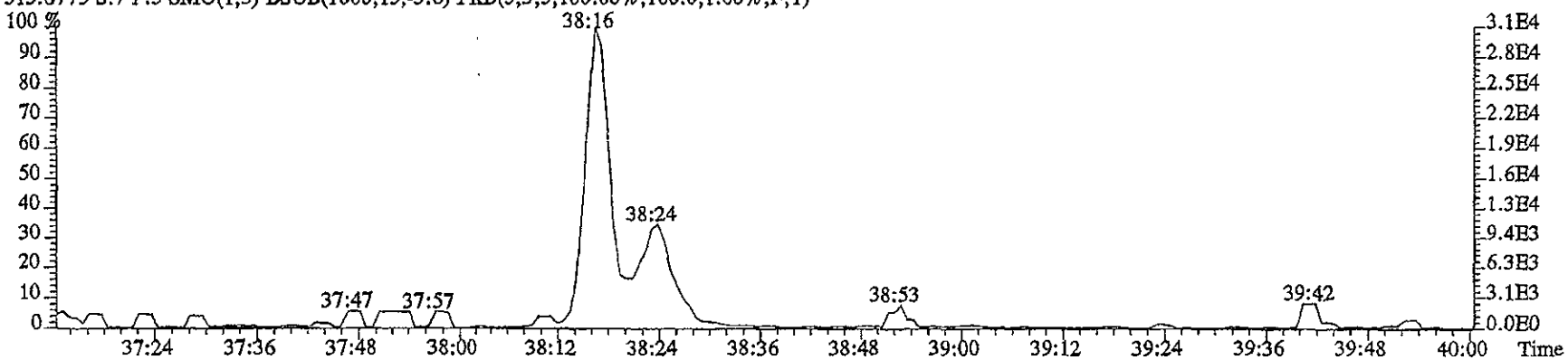
File:21JL10A4D5 #1-227 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES
441.7428 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,37688.0,1.00%,F,T)



443.7399 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,33736.0,1.00%,F,T)

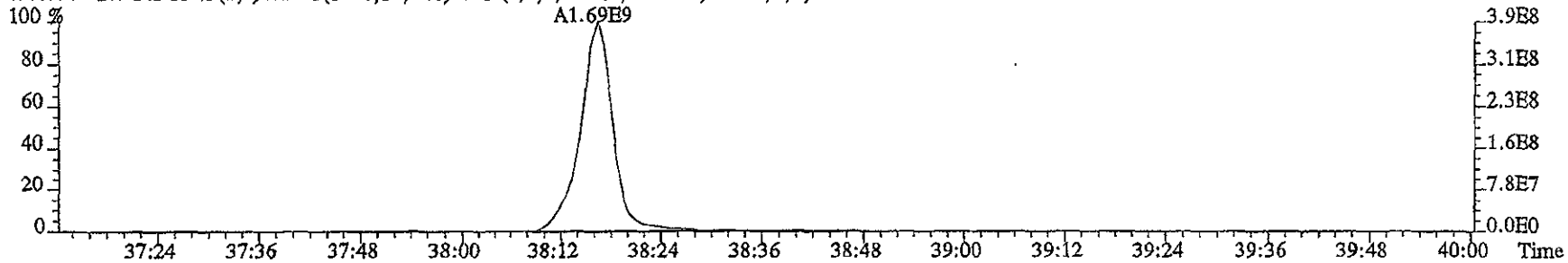


513.6775 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,168.0,1.00%,F,T)

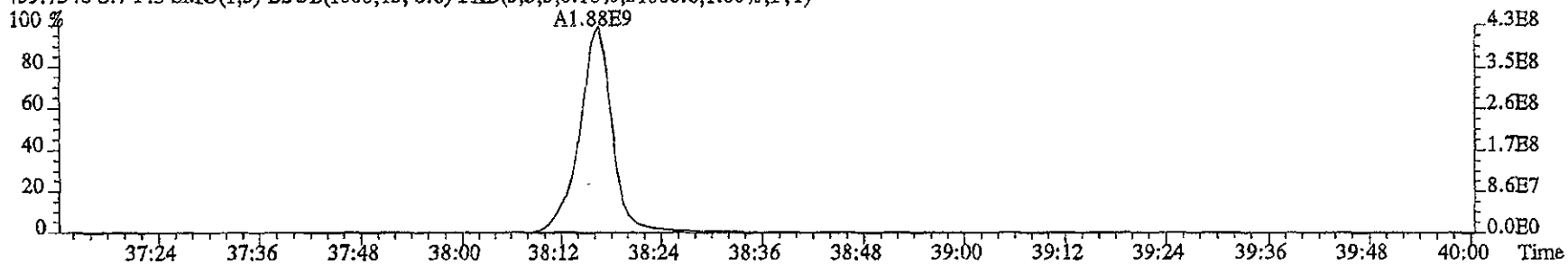


File:21JL10A4D5 #1-227 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES

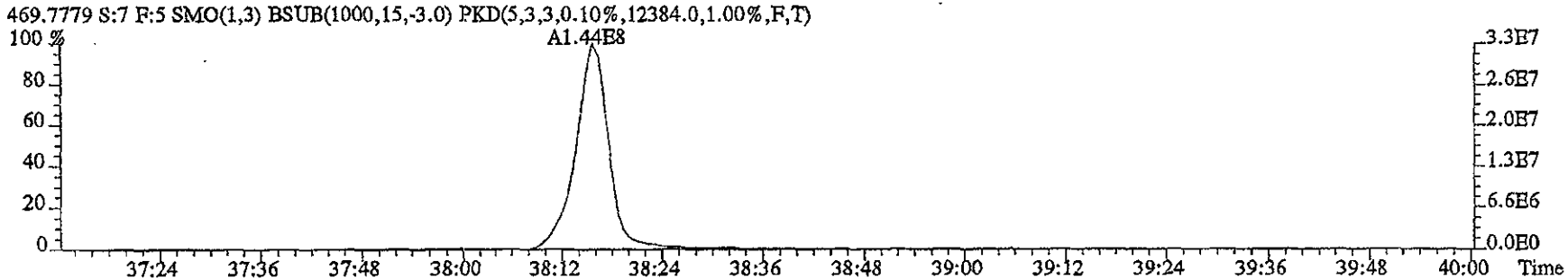
457.7377 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27244.0,1.00%,F,T)



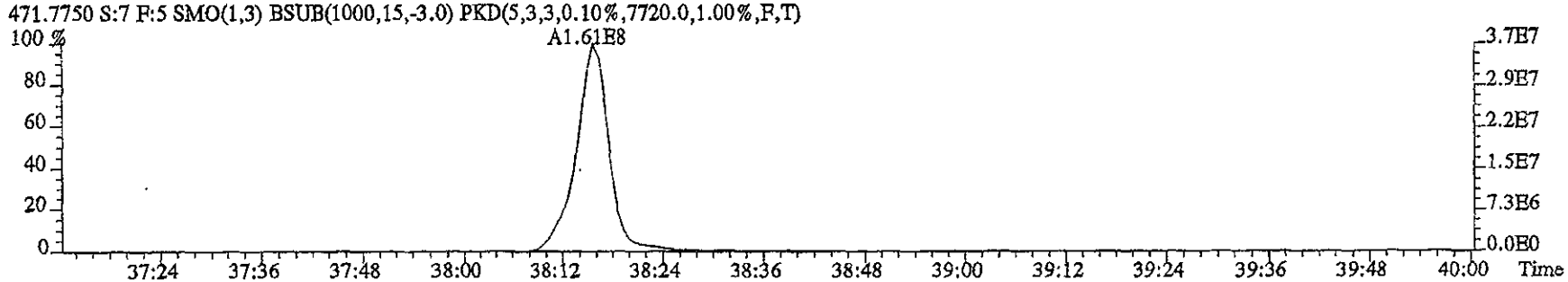
459.7348 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,31008.0,1.00%,F,T)



469.7779 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12384.0,1.00%,F,T)



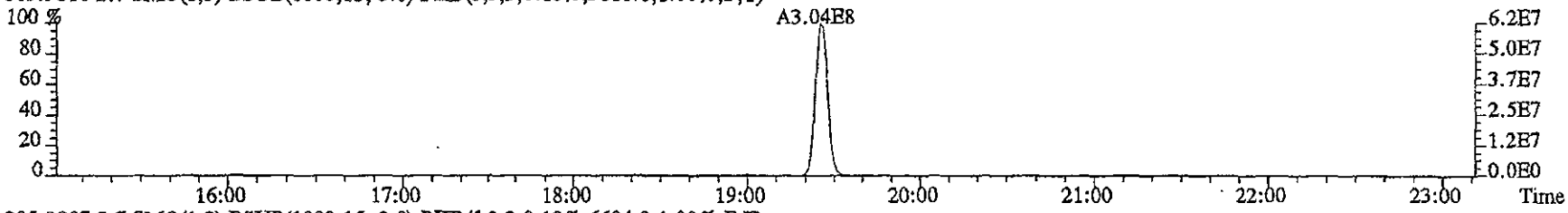
471.7750 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7720.0,1.00%,F,T)



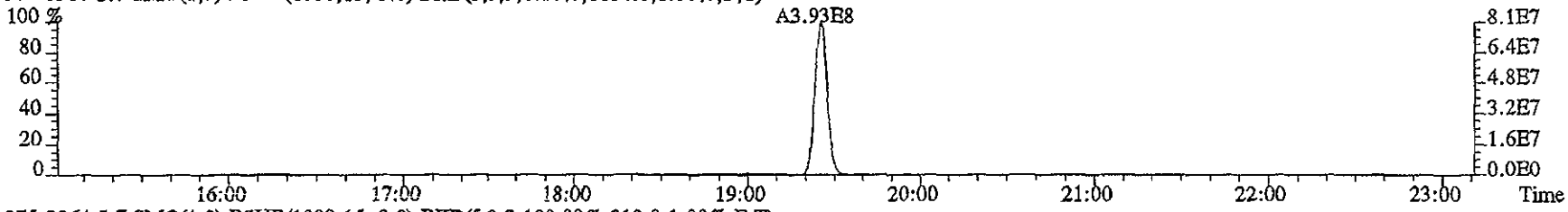
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES

292.9825 S:7 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

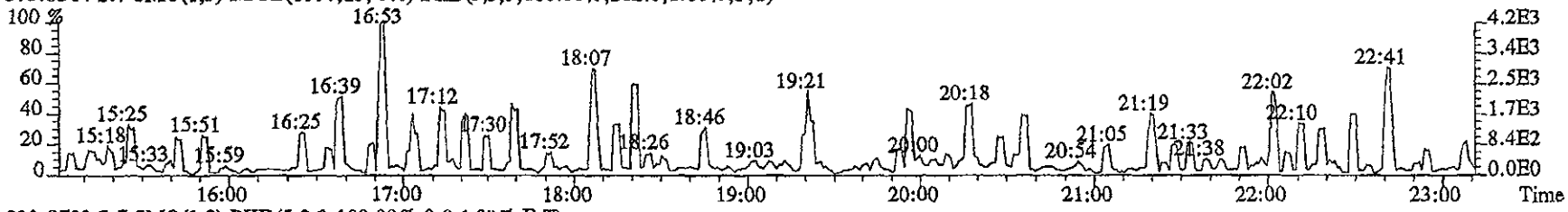
303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3616.0,1.00%,F,T)



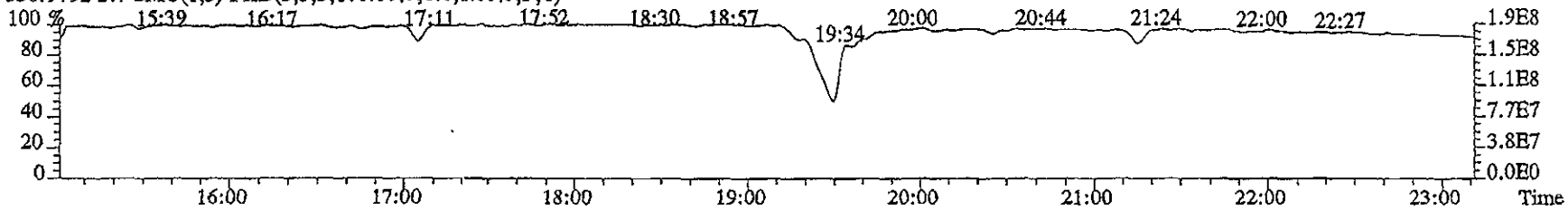
305.8987 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6604.0,1.00%,F,T)



375.8364 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,212.0,1.00%,F,T)

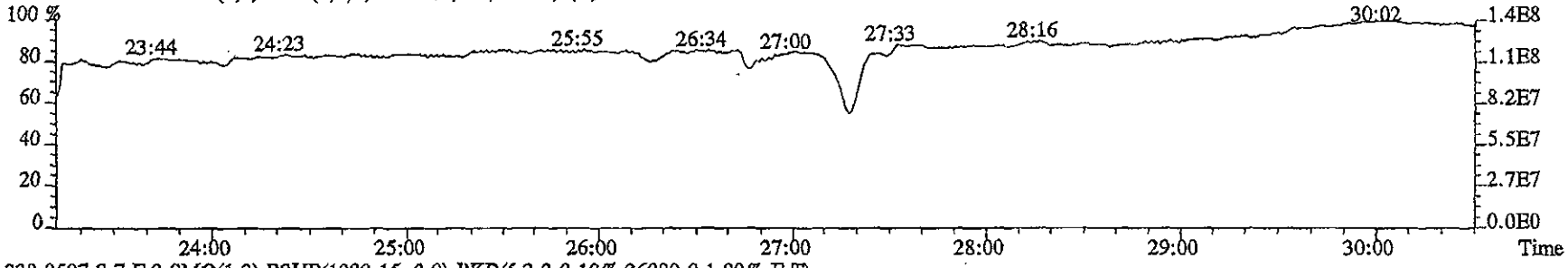


330.9792 S:7 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

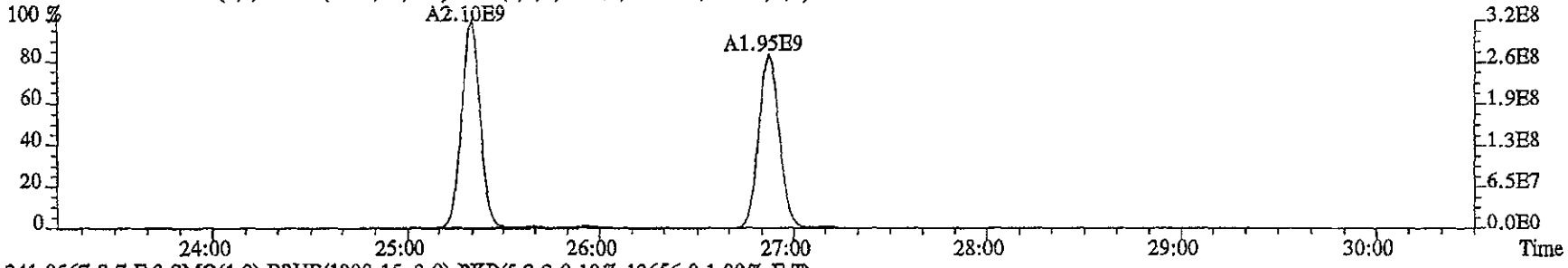


File:21JL10A4D5 #1-469 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES

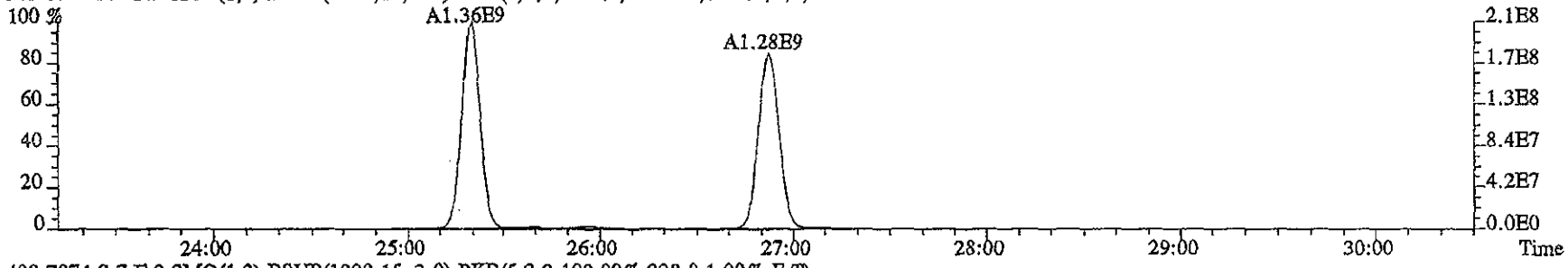
342.9792 S:7 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



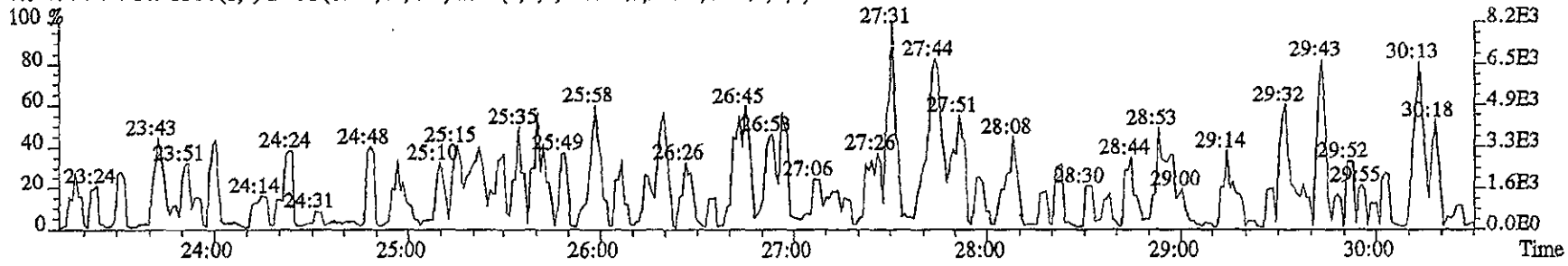
339.8597 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,26980.0,1.00%,F,T)



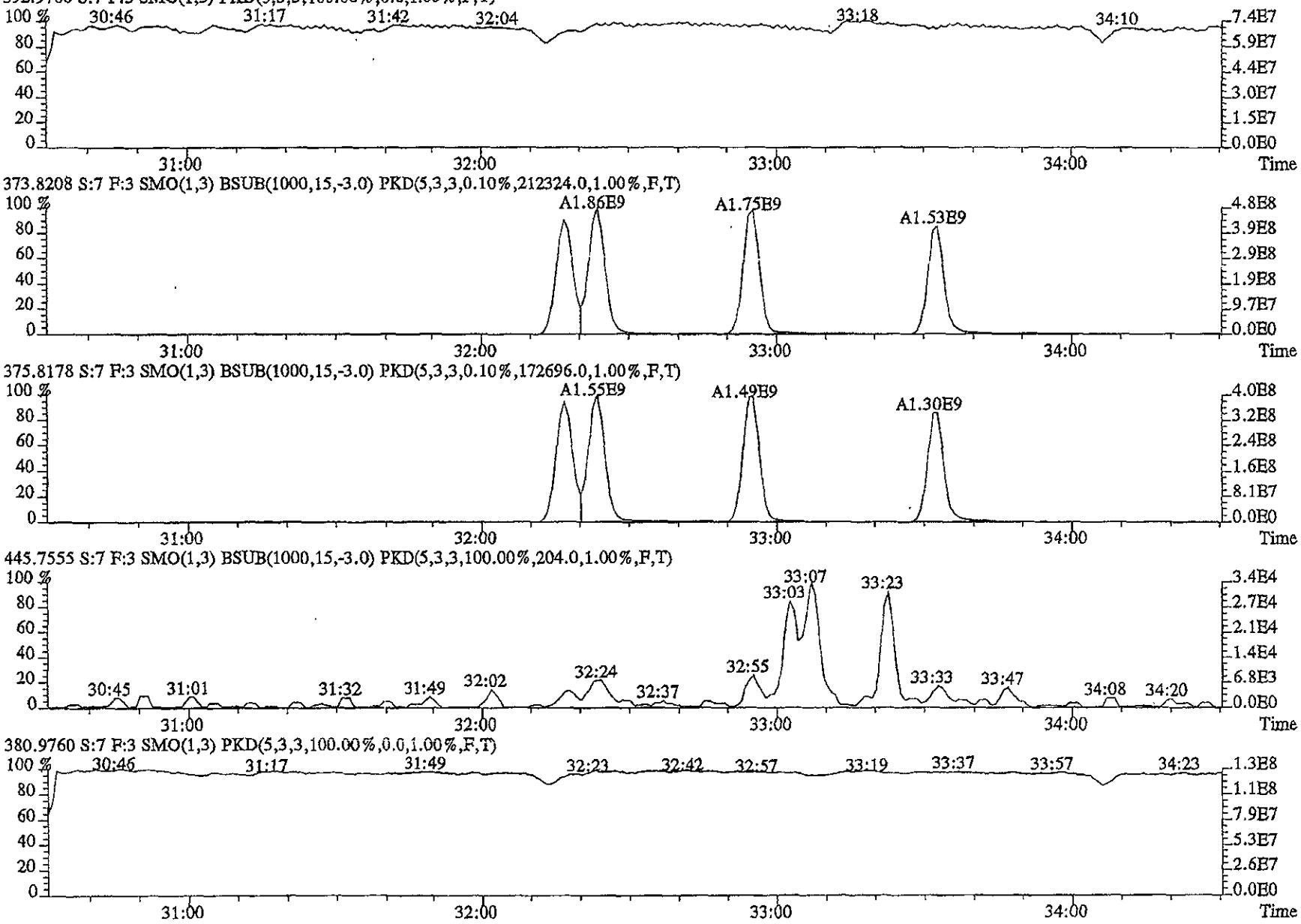
341.8567 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13656.0,1.00%,F,T)



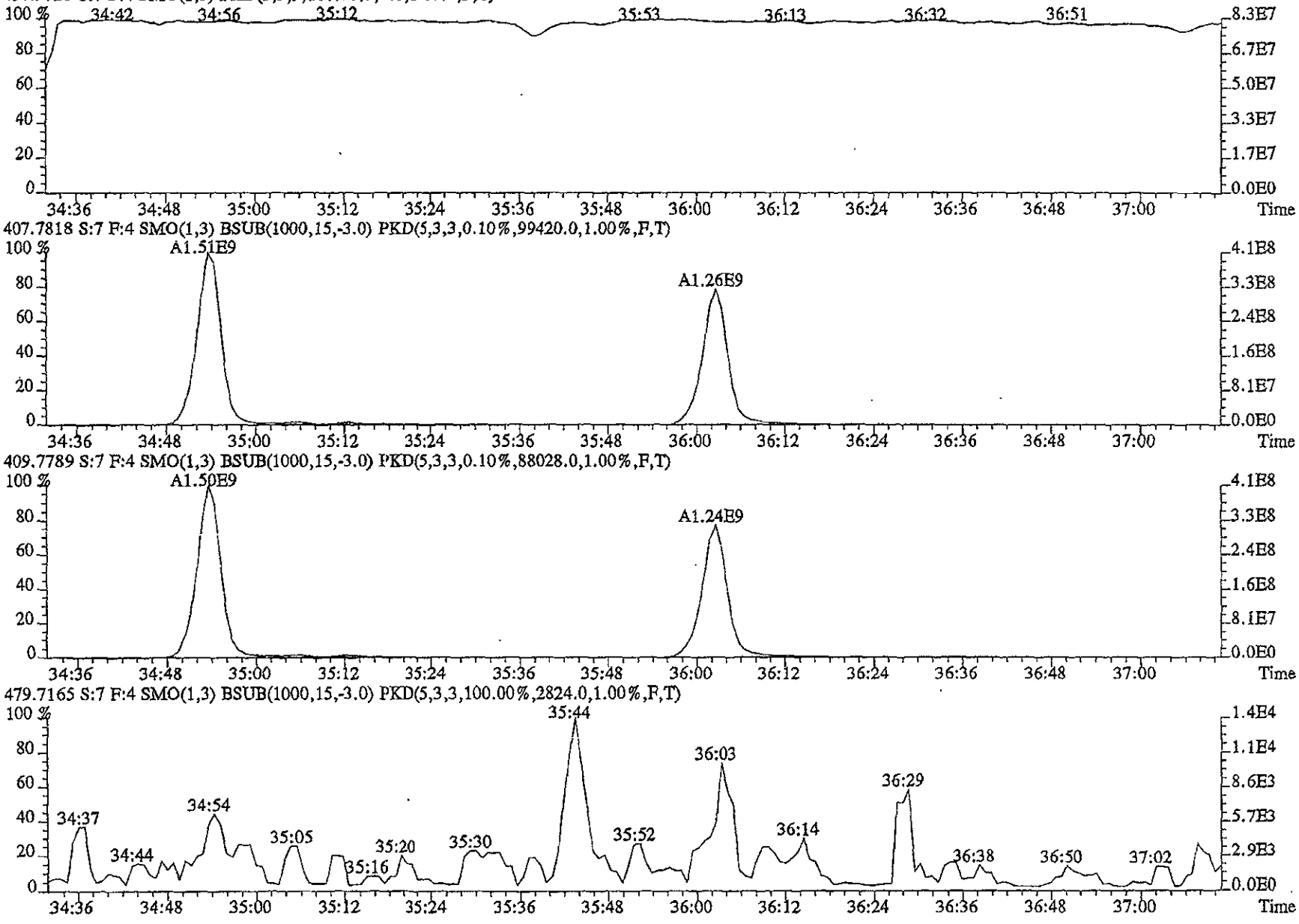
409.7974 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,228.0,1.00%,F,T)



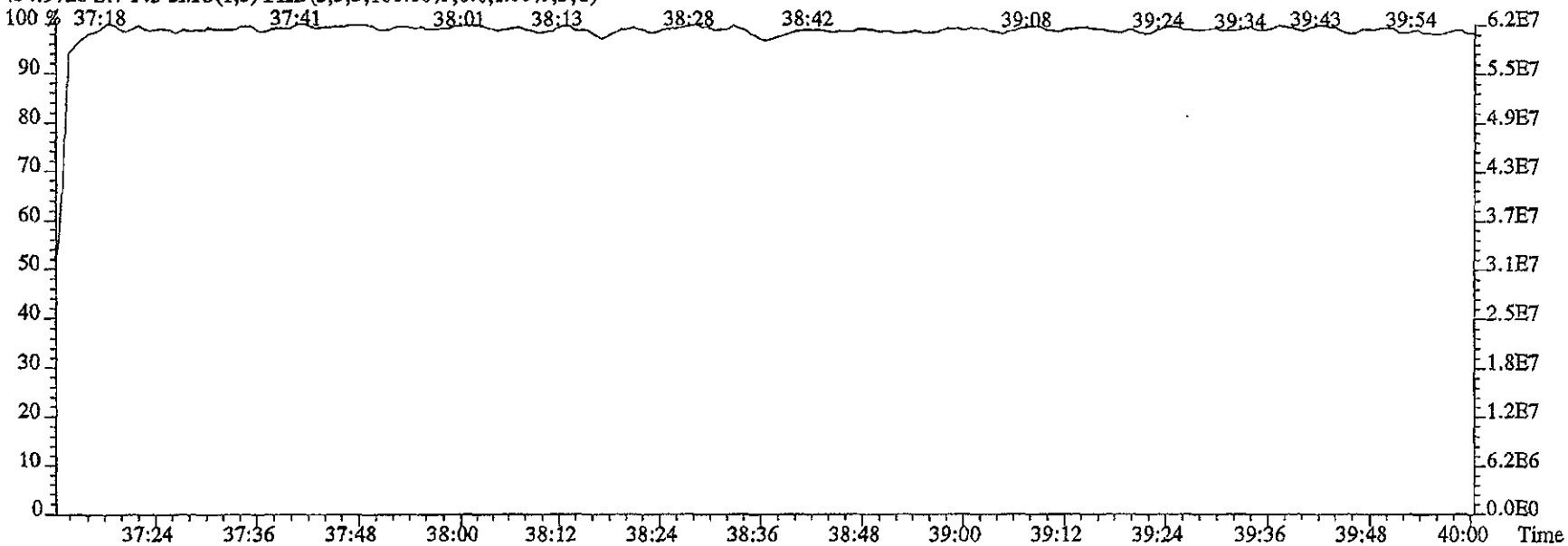
File:21JL10A4D5 #1-287 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES



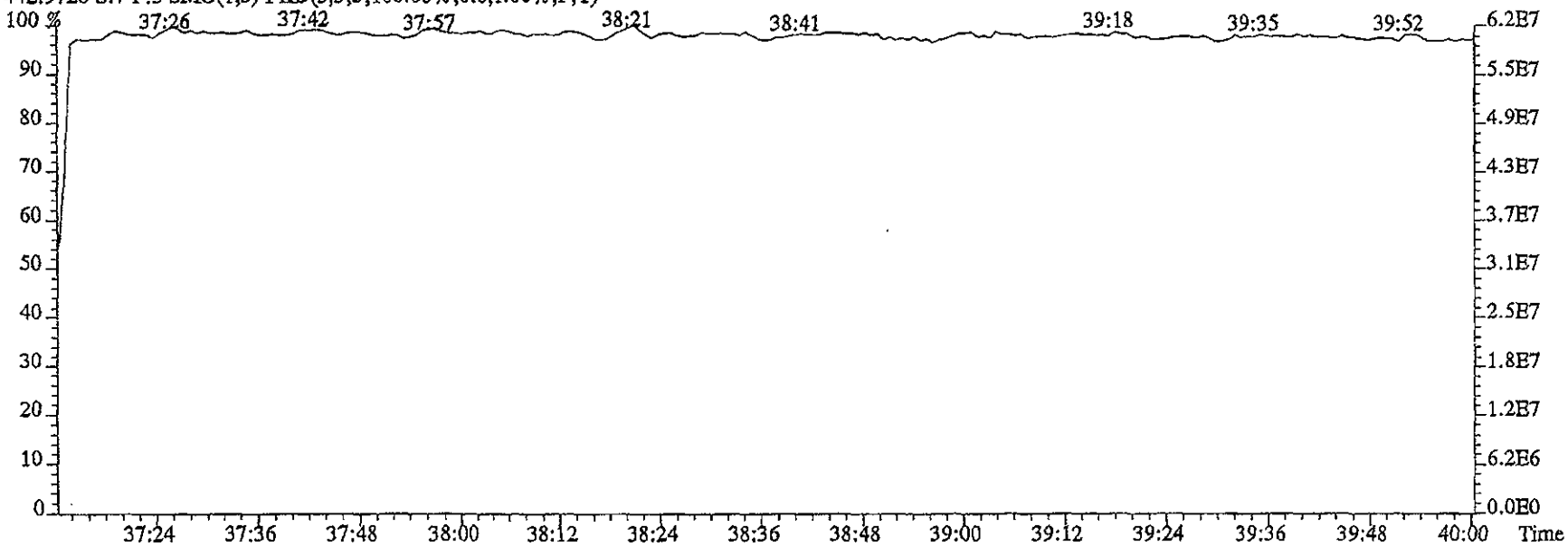
File:21JL10A4D5 #1-201 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES



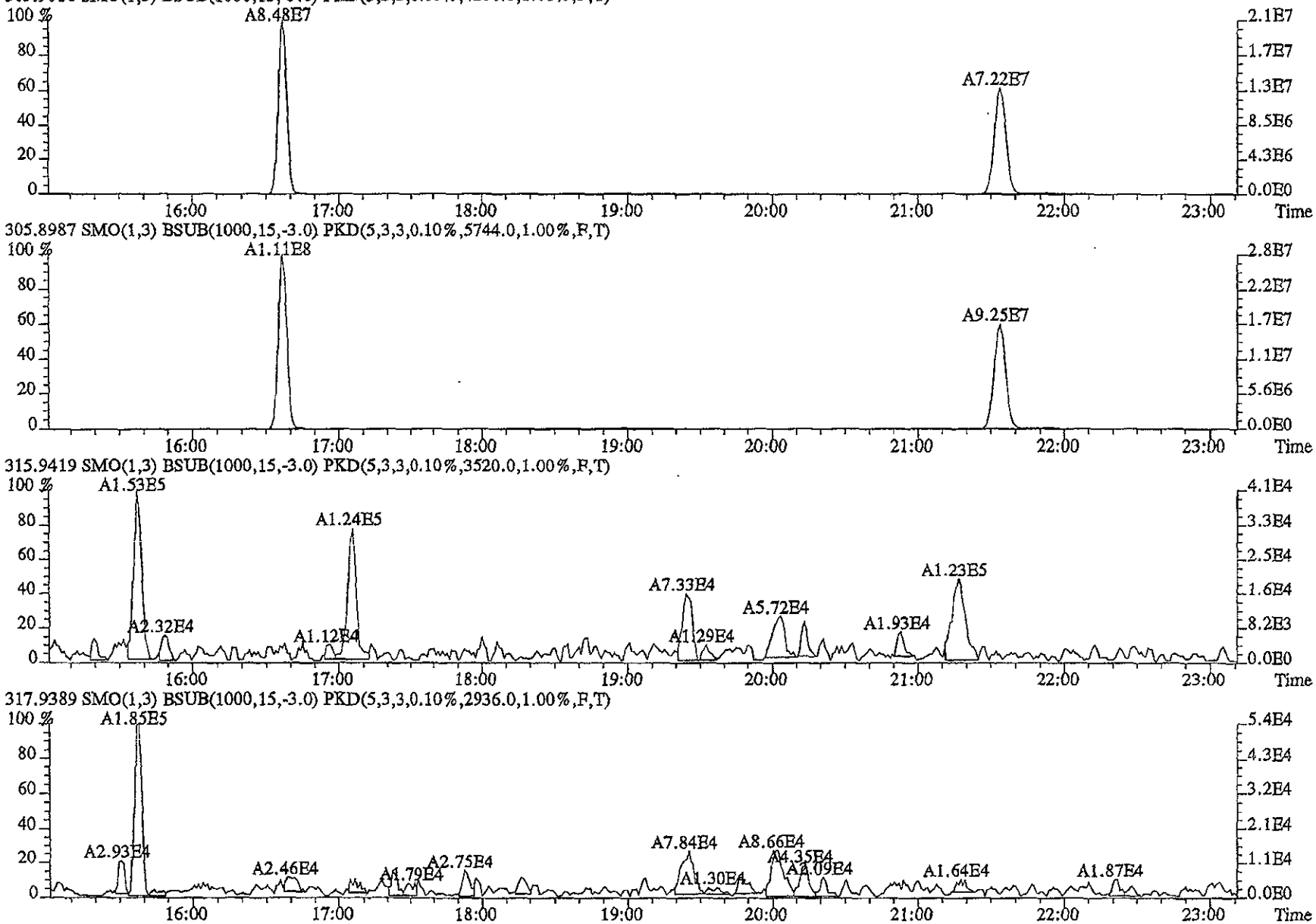
File:21JL10A4D5 #1-227 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES
454.9728 S:7 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



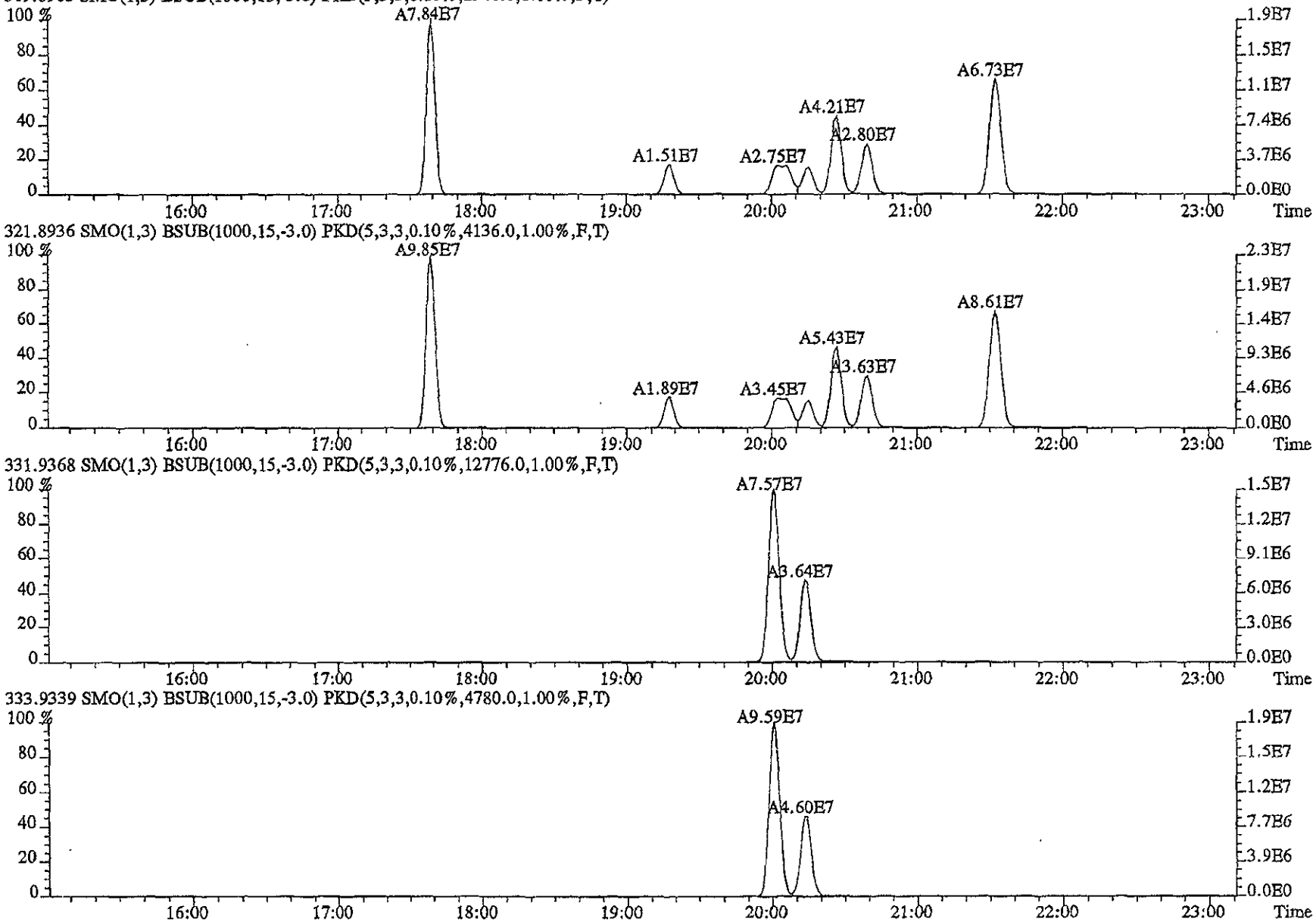
442.9728 S:7 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



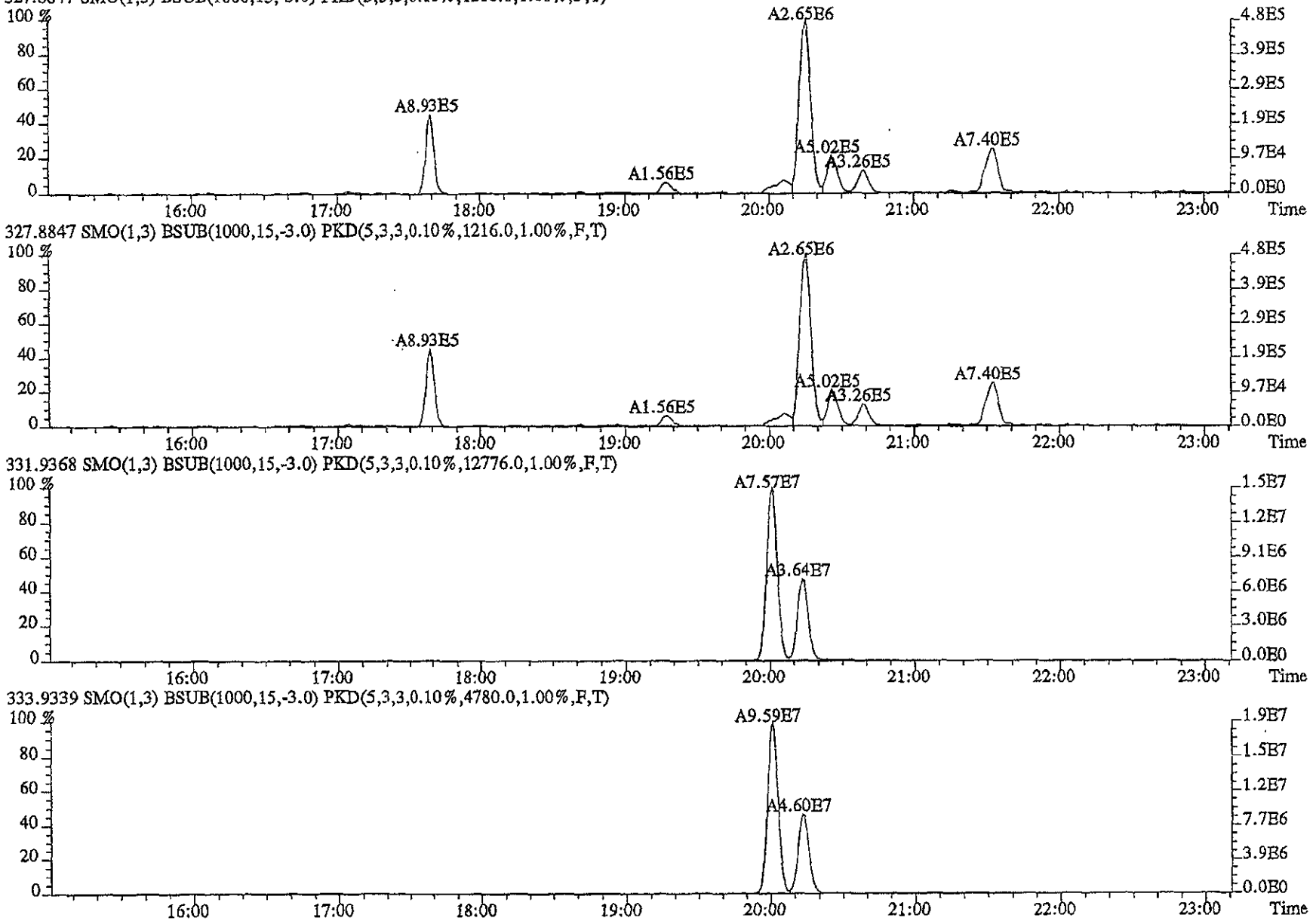
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES



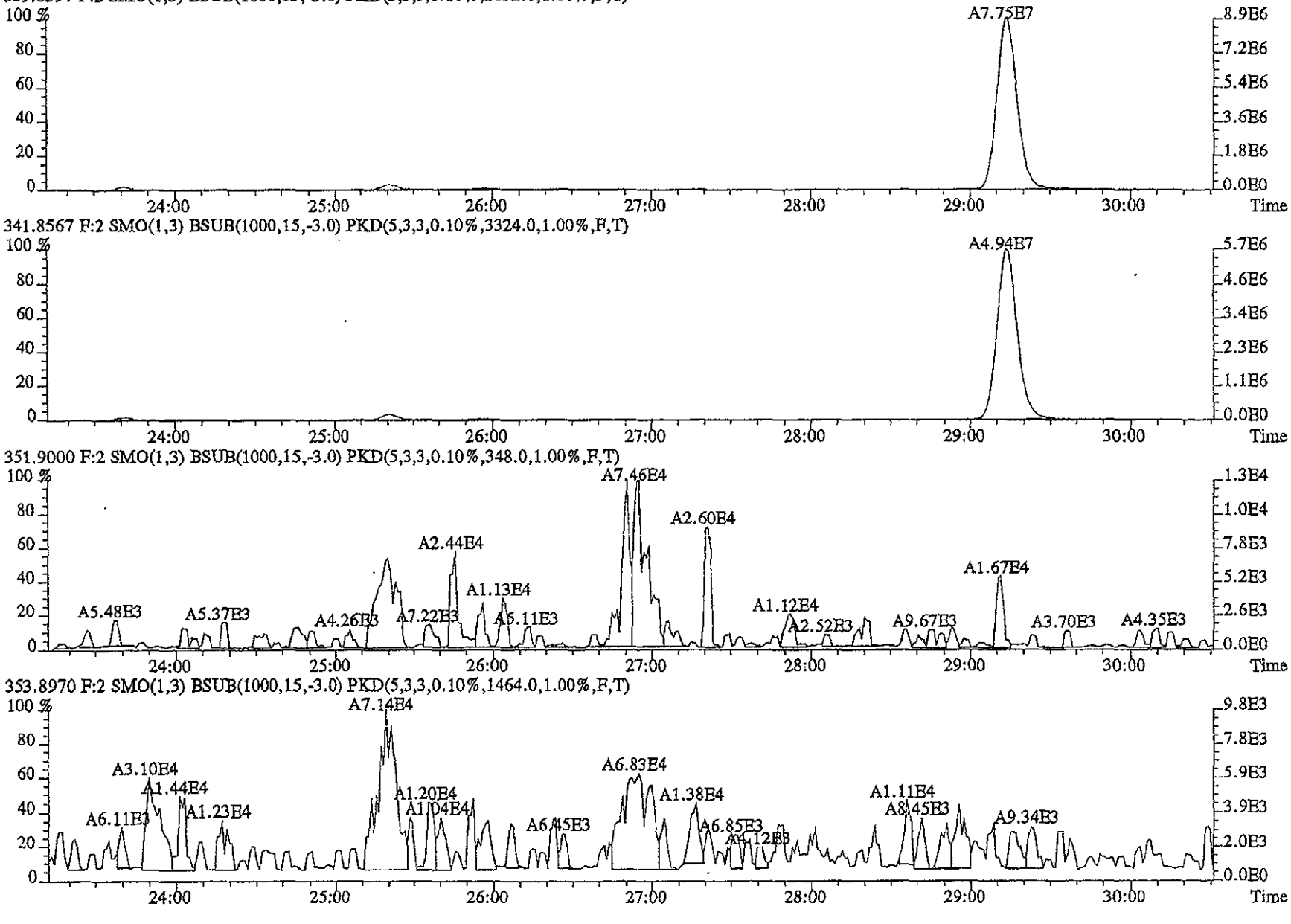
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaB
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES



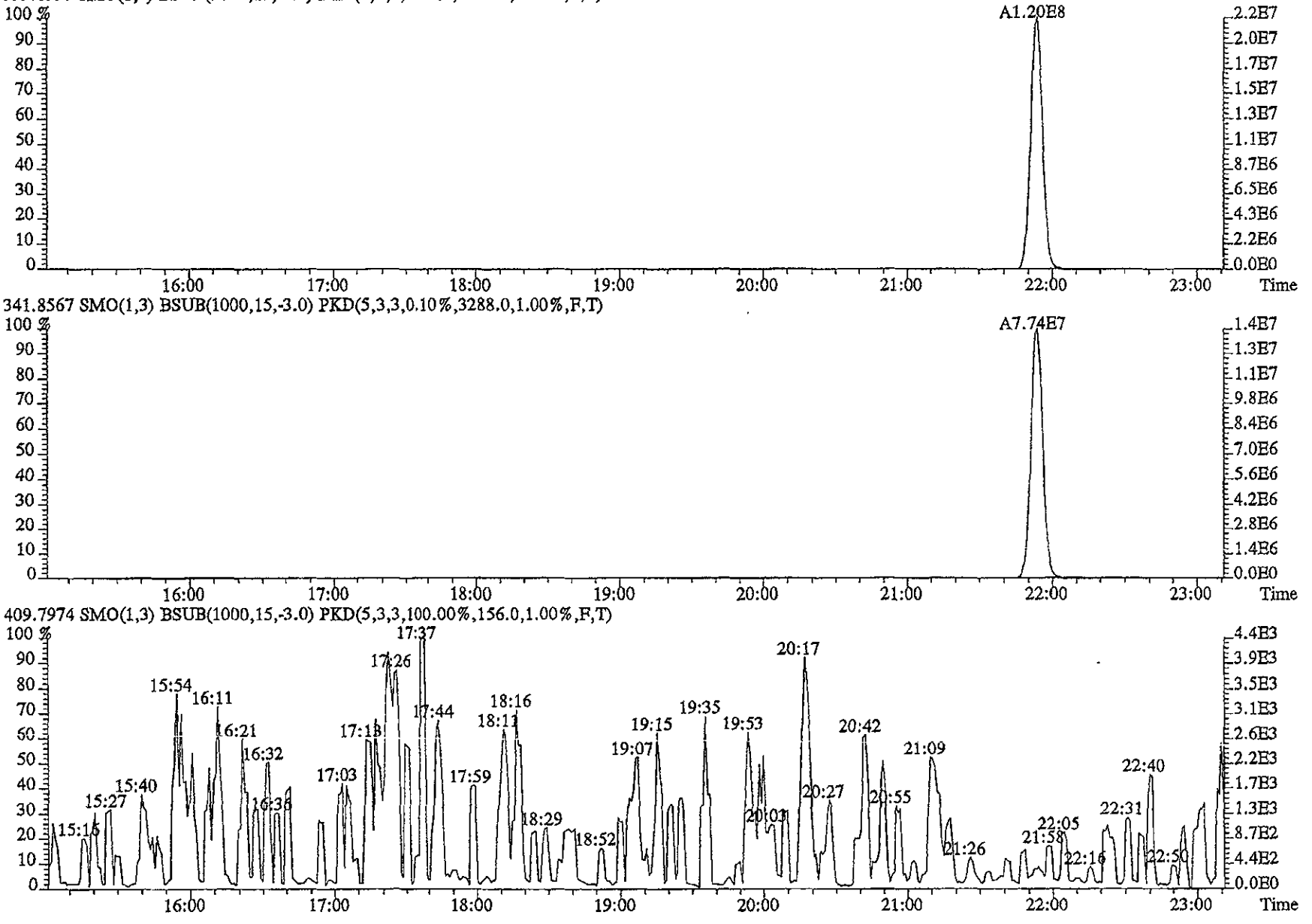
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES



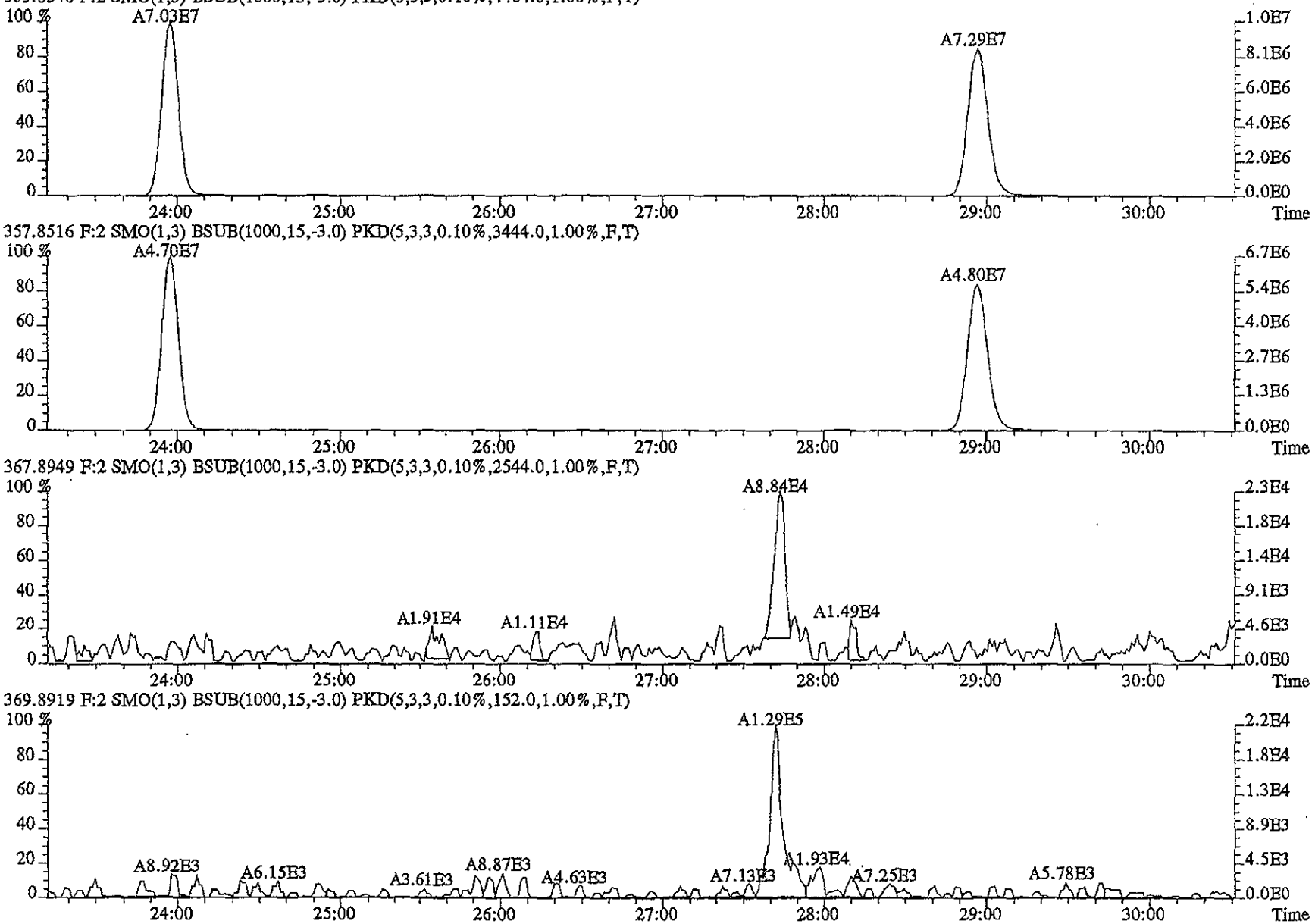
File:21JL10A4D5 #1-470 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES



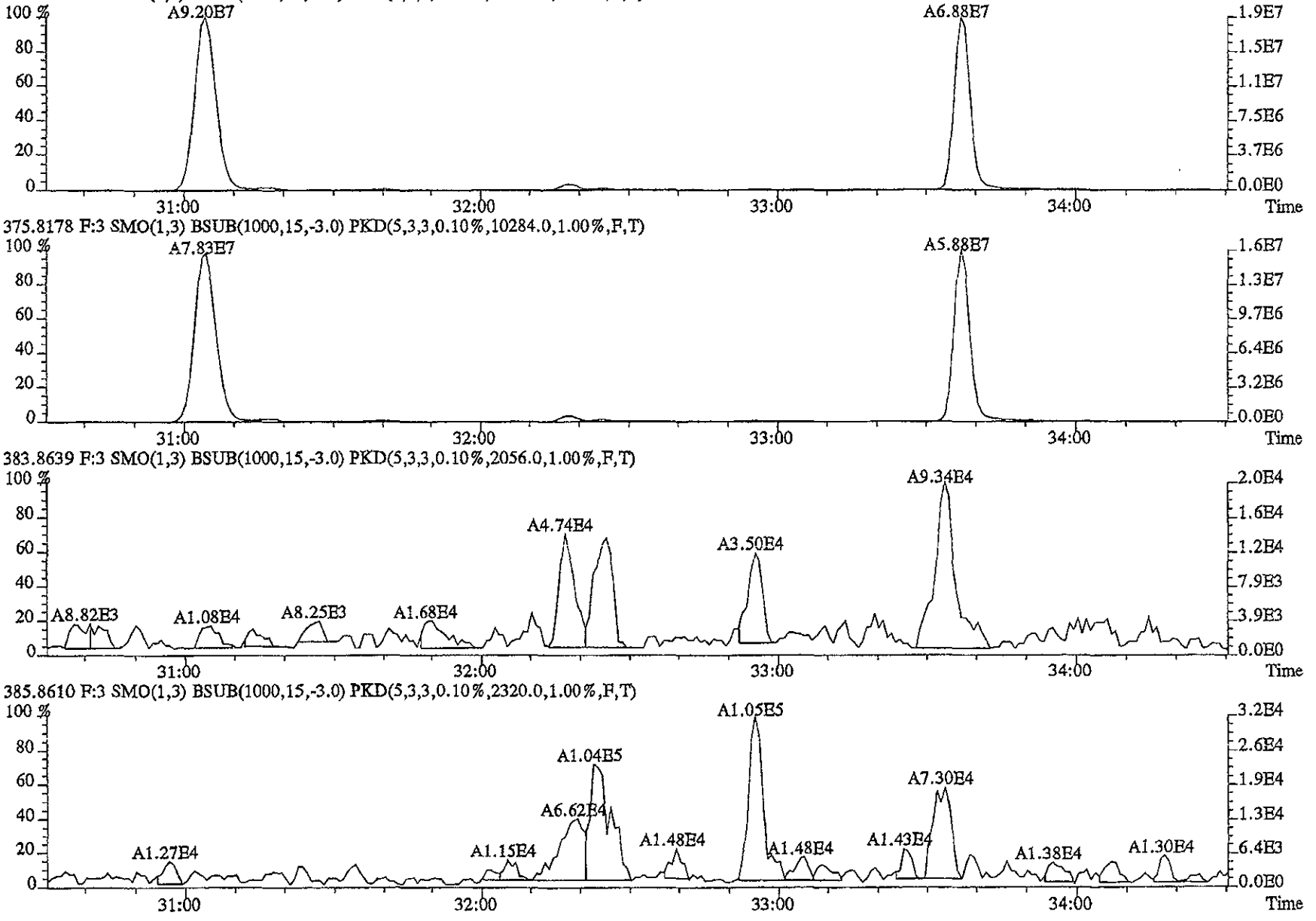
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES



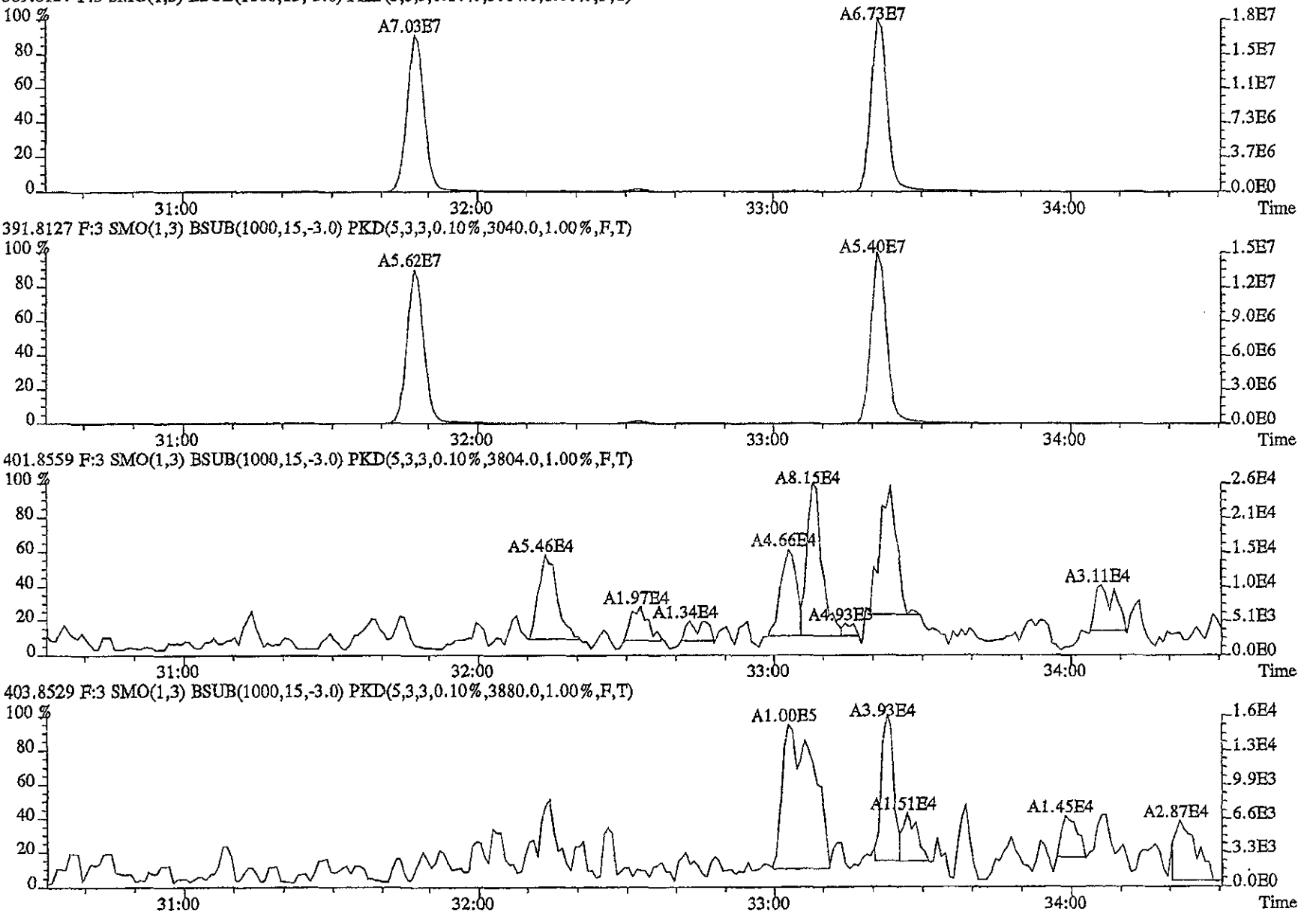
File:21JL10A4D5 #1-470 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES



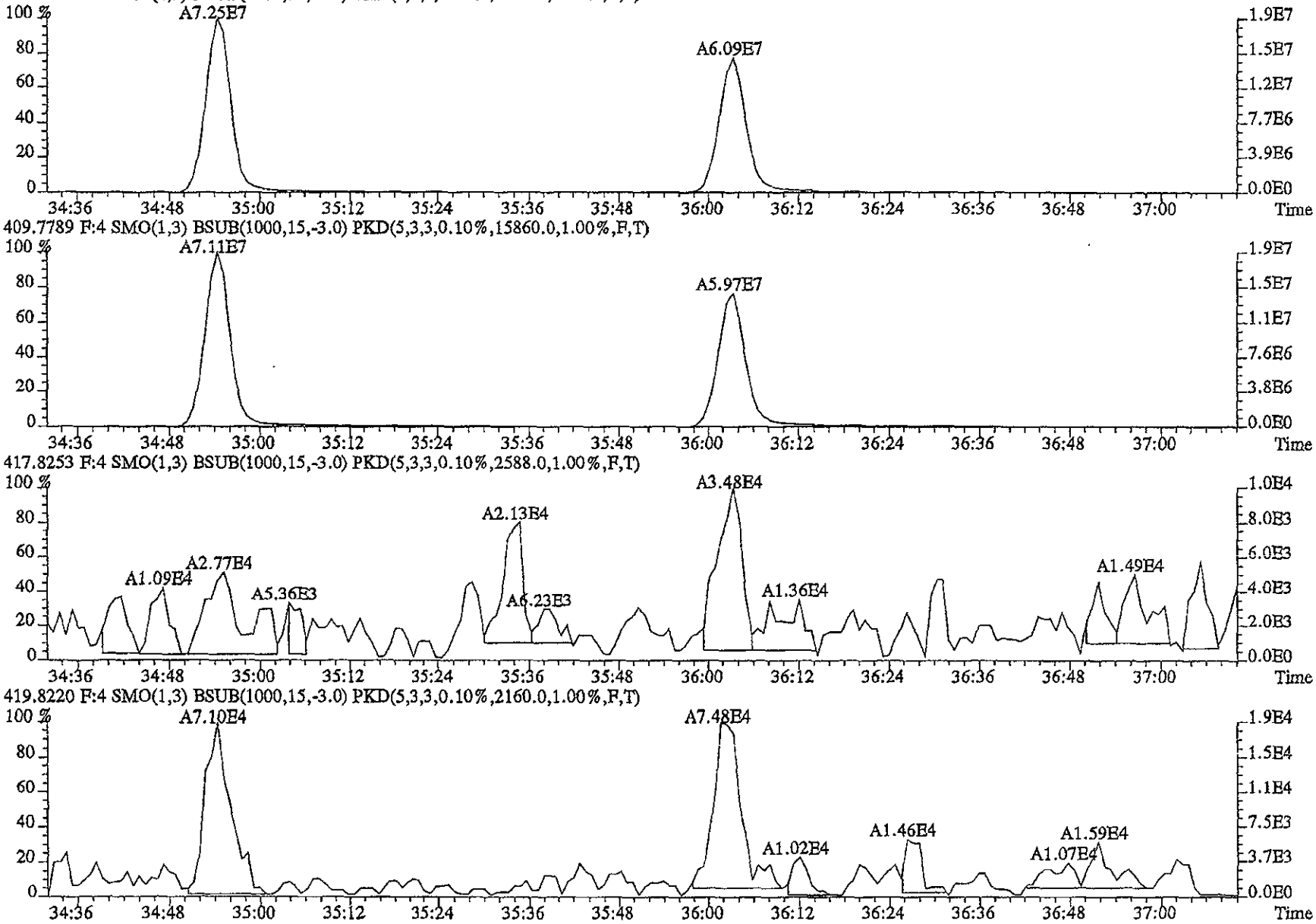
File:21JL10A4D5 #1-286 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES



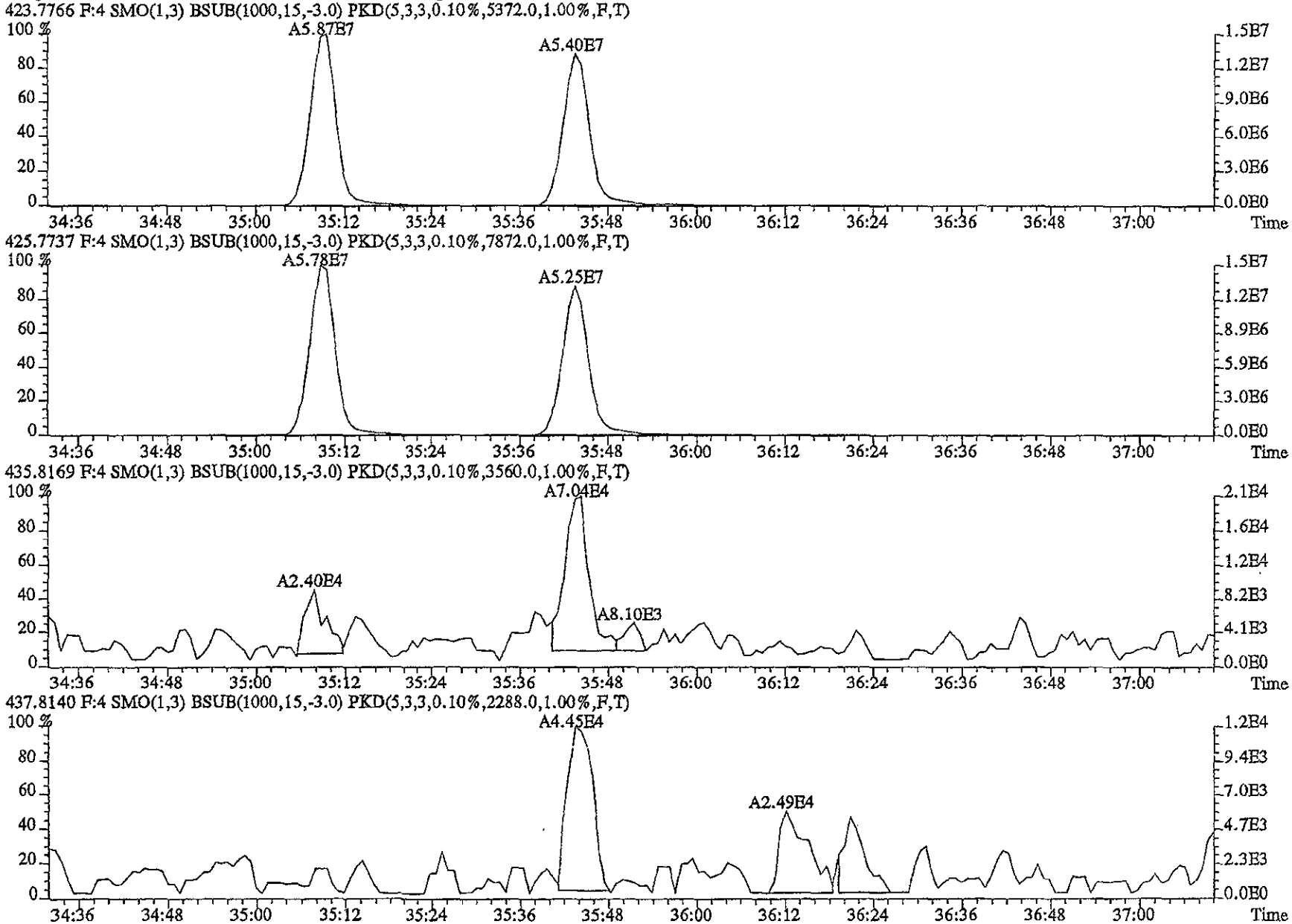
File:21JL10A4D5 #1-286 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES

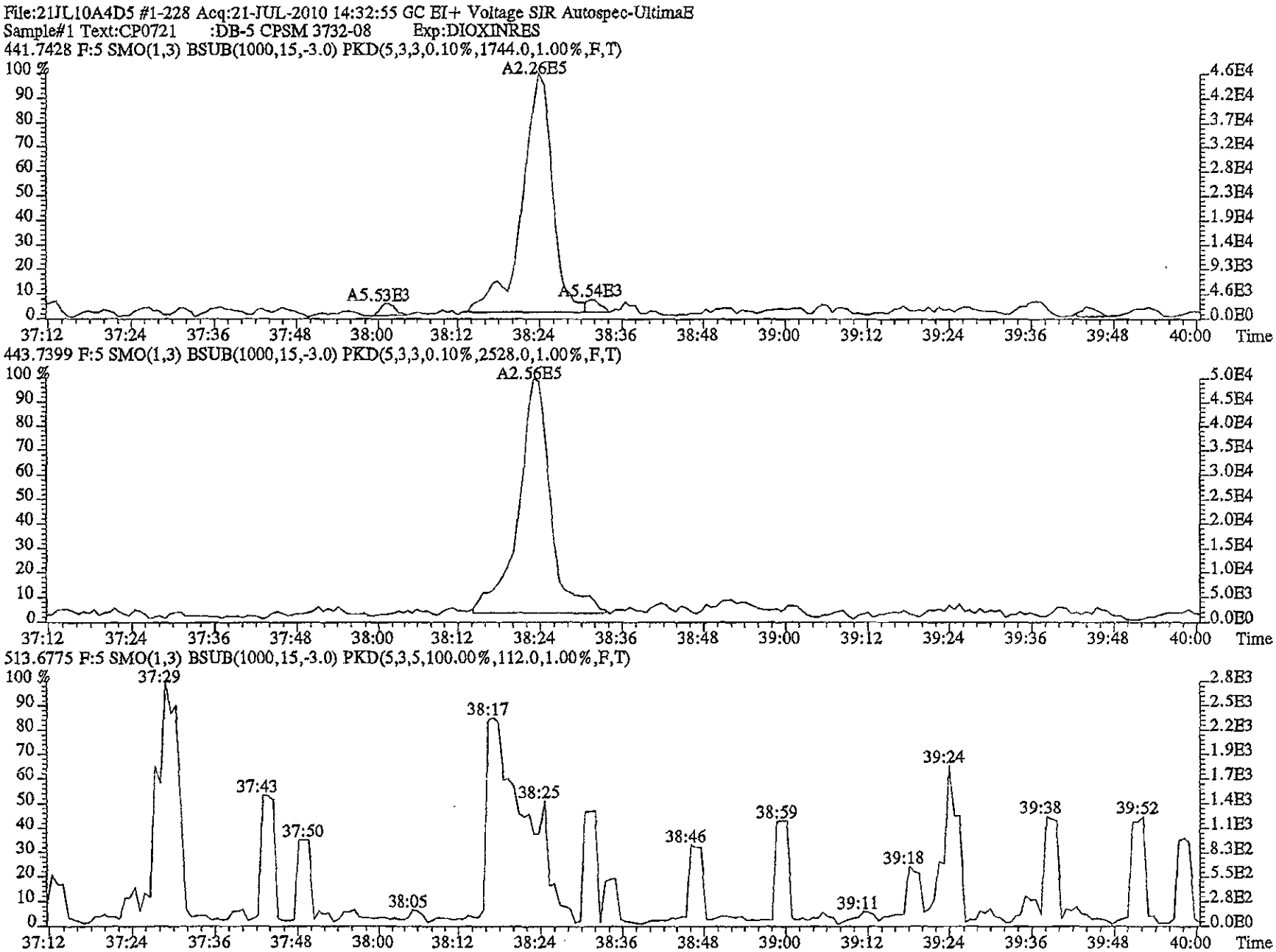


File:21JL10A4D5 #1-200 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES

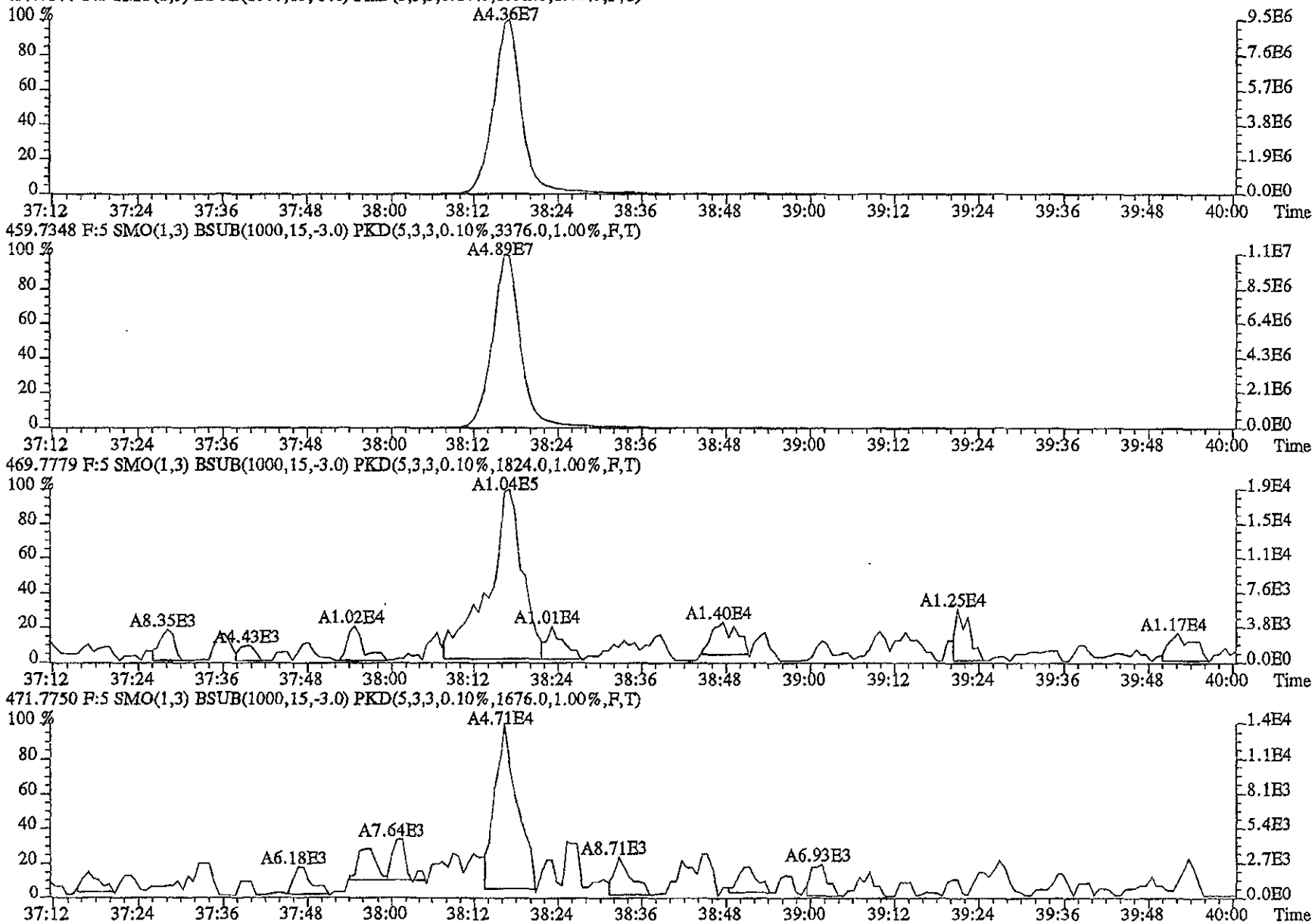


File:21JL10A4D5 #1-200 Acq:21-JUL-2010 14:32:55 GC HI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES

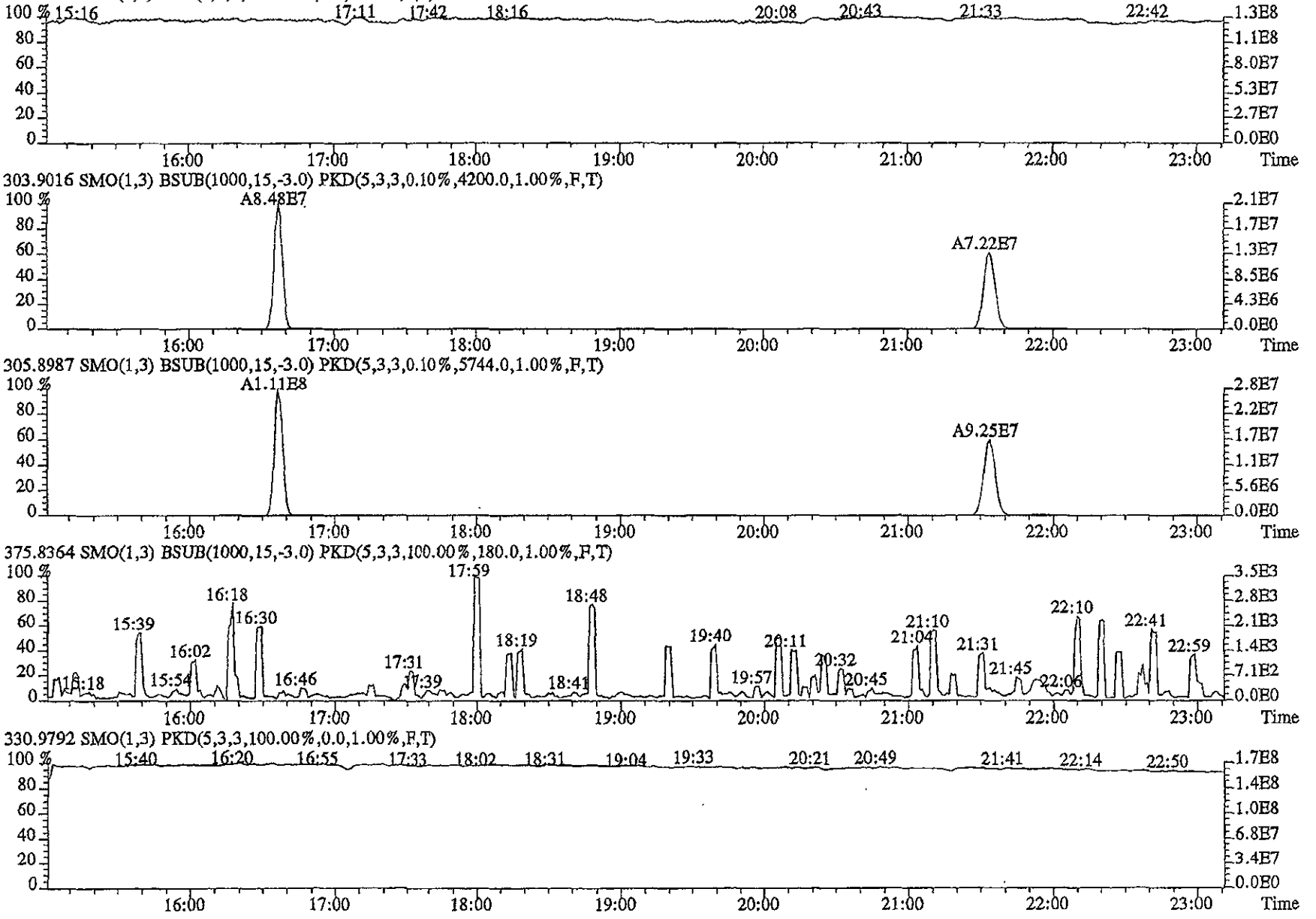


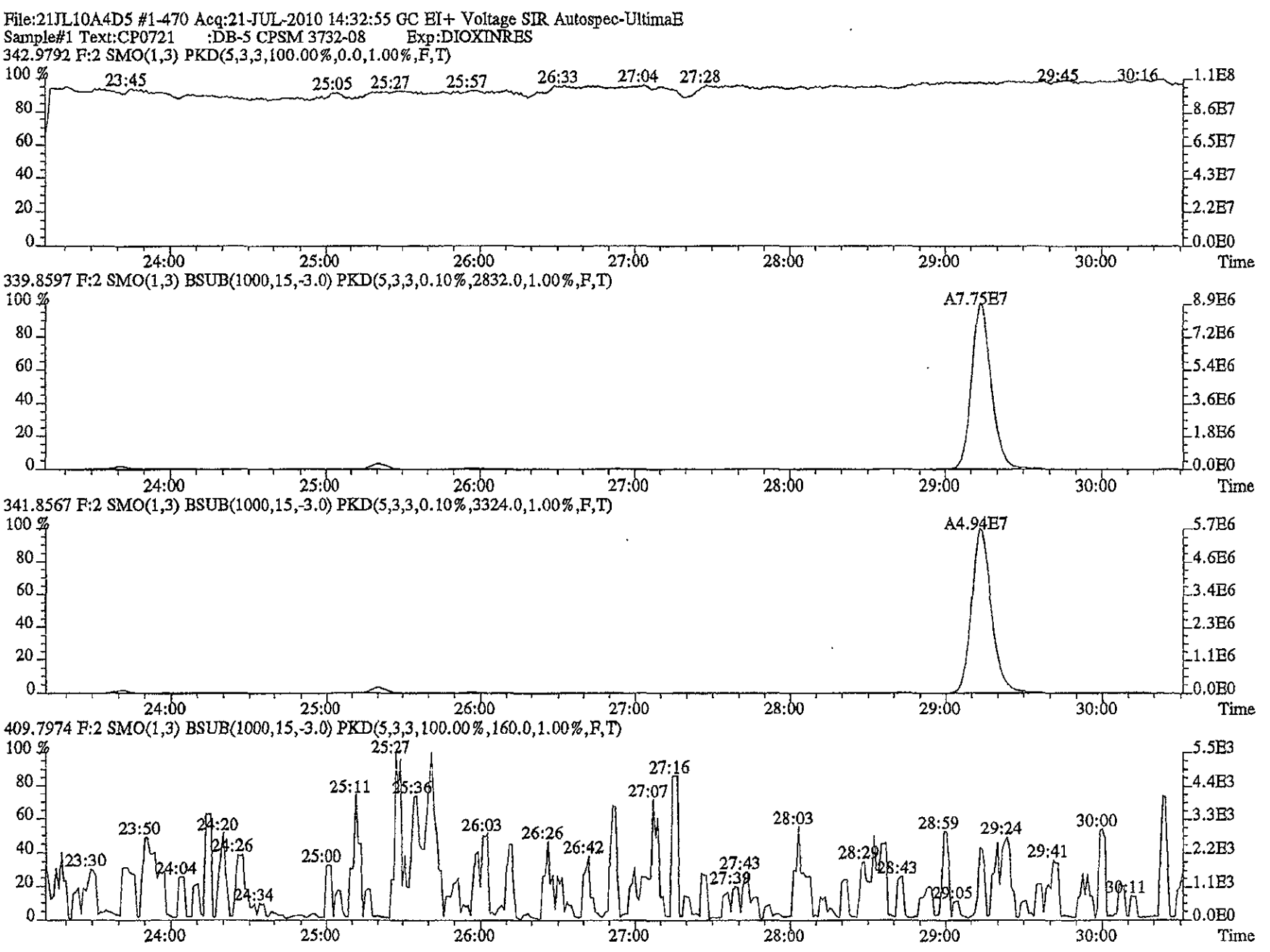

File:21JL10A4D5 #1-228 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES
441.7428 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1744.0,1.00%,F,T)
A2.26E5
A5.53E3
A5.54E3
443.7399 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2528.0,1.00%,F,T)
A2.56E5
513.6775 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,112.0,1.00%,F,T)
37:29
37:43
37:50
38:05
38:17
38:25
38:46
38:59
39:11
39:18
39:24
39:38
39:52
Time

File:21JL10A4D5 #1-228 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES

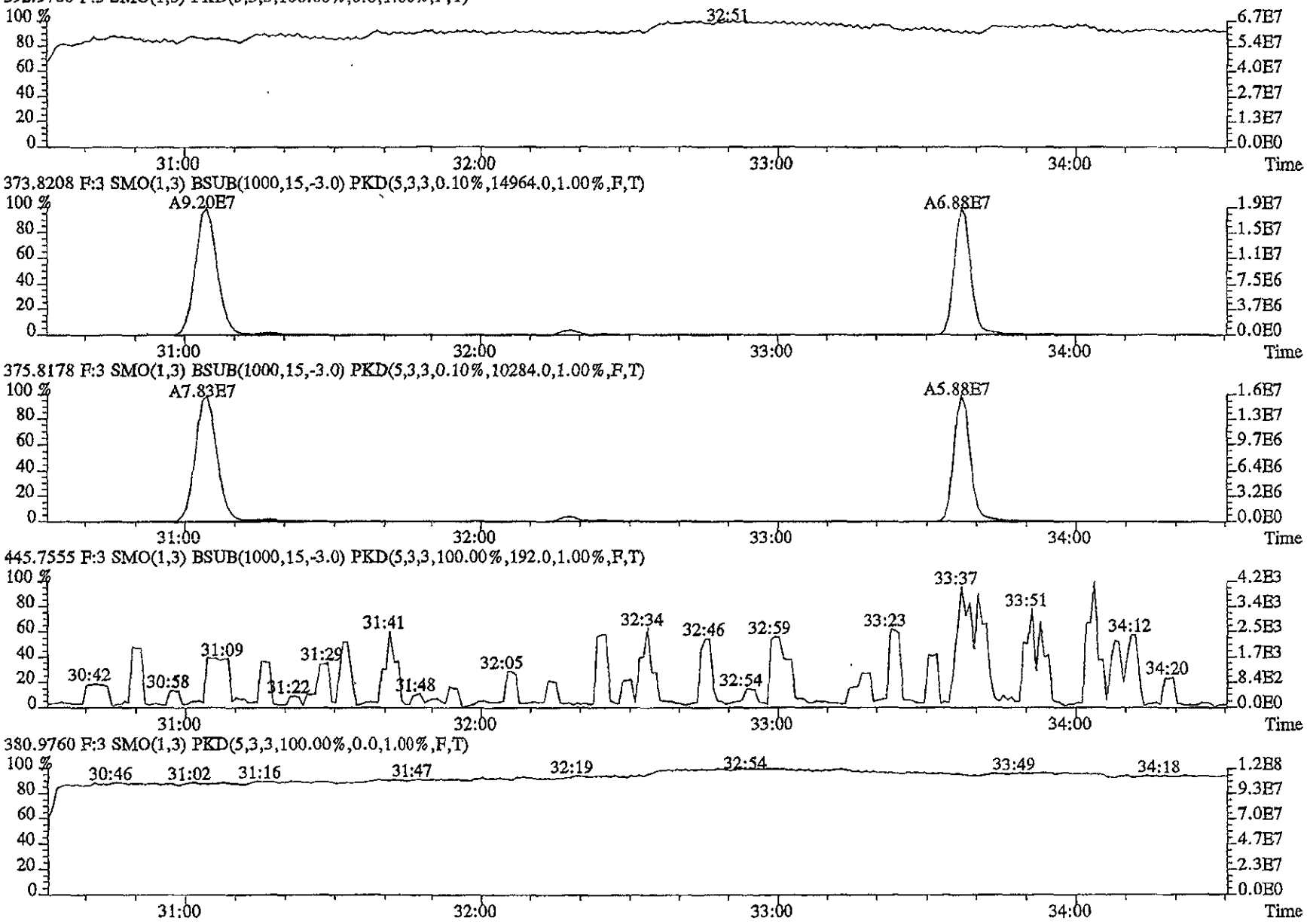


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES

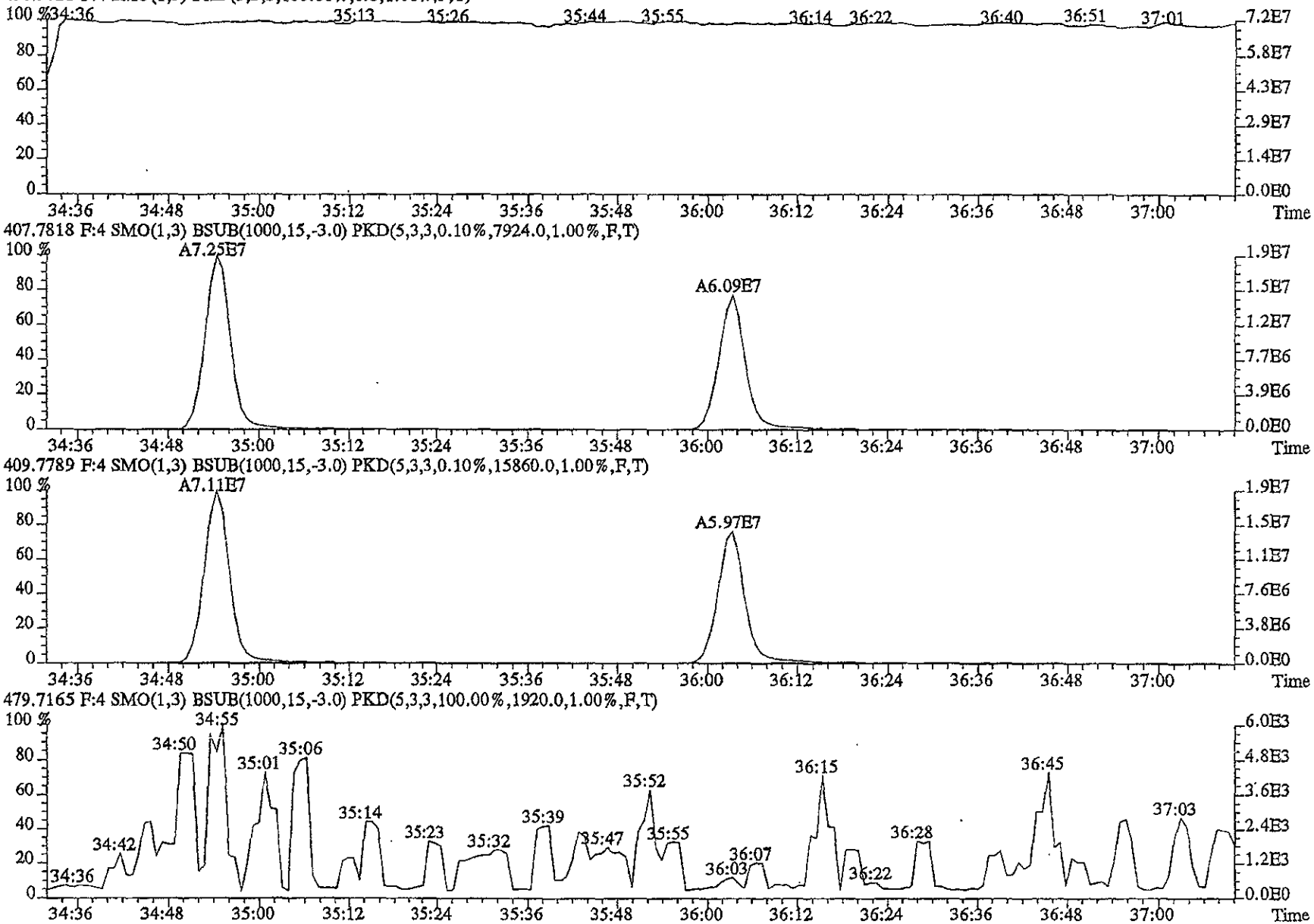



File:21JL10A4D5 #1-470 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES
342.9792 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
339.8597 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2832.0,1.00%,F,T)
A7.75E7
341.8567 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3324.0,1.00%,F,T)
A4.94E7
409.7974 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,160.0,1.00%,F,T)
Time

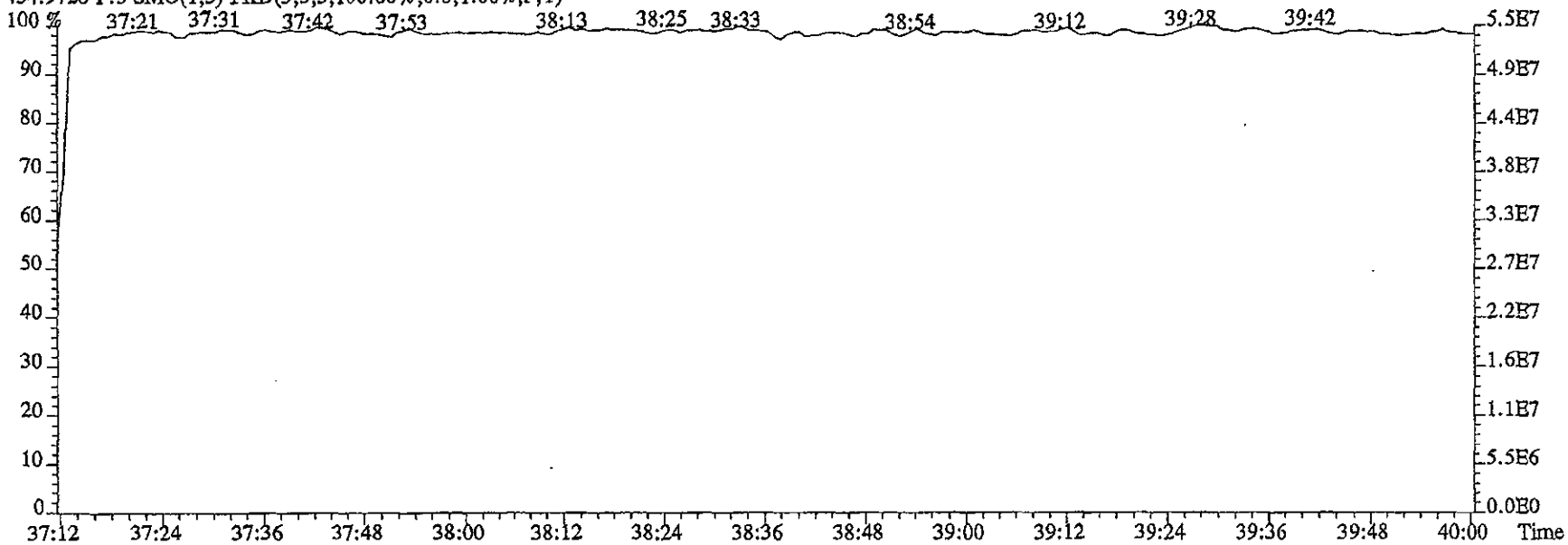
File:21JL10A4D5 #1-286 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES



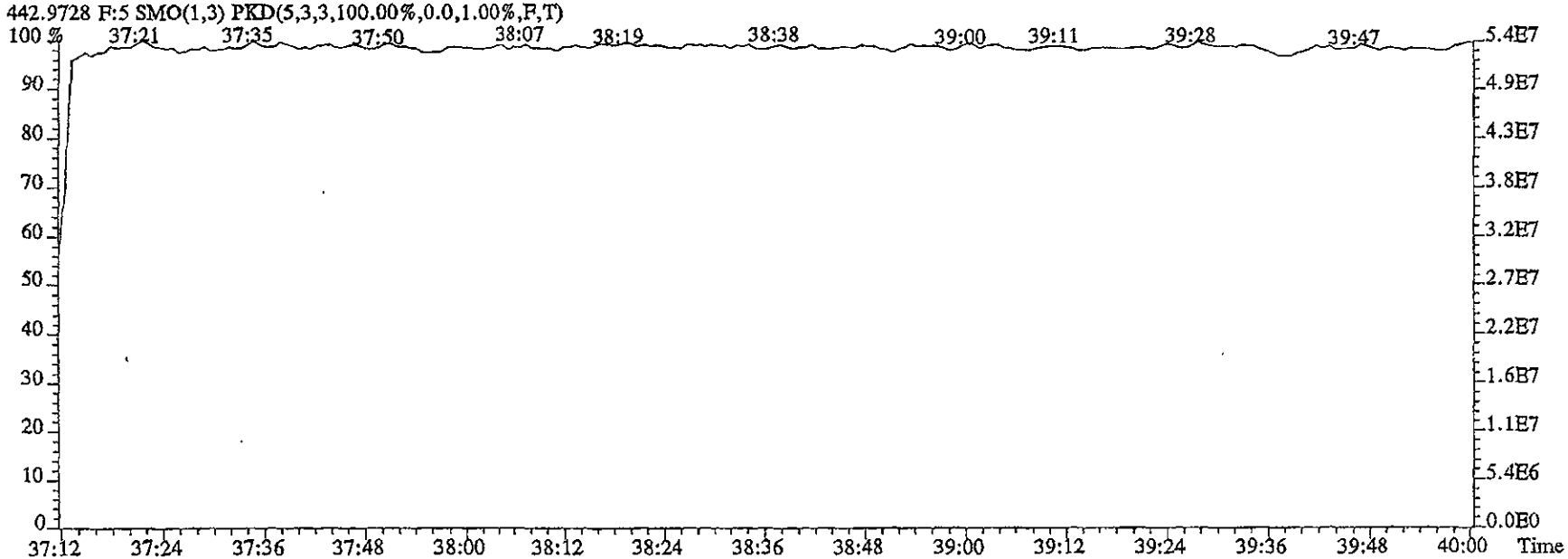
File:21JL10A4D5 #1-200 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES



File:21JL10A4D5 #1-228 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES
454.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

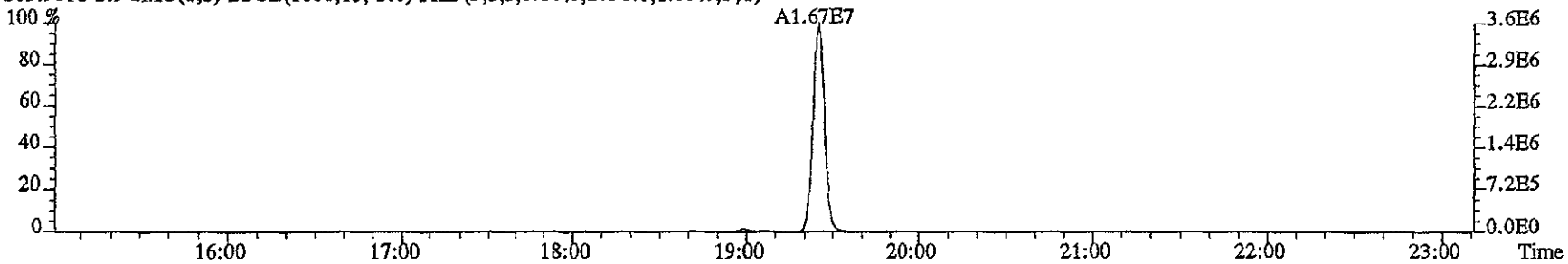


442.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

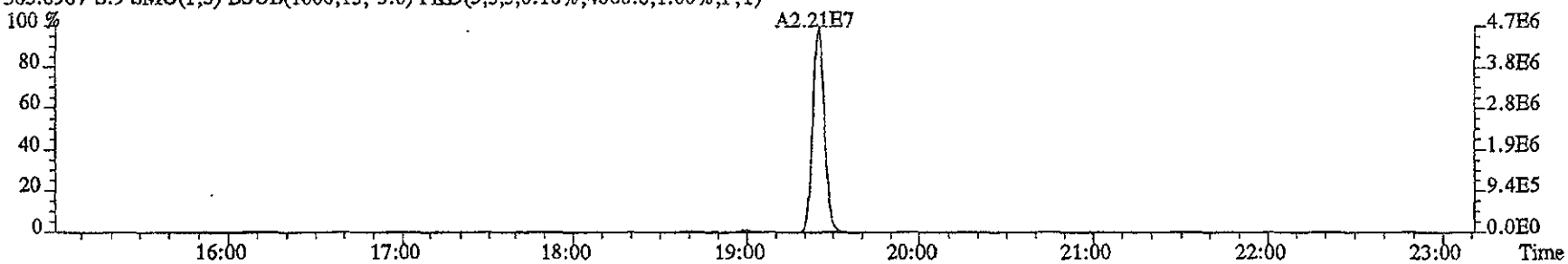


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES

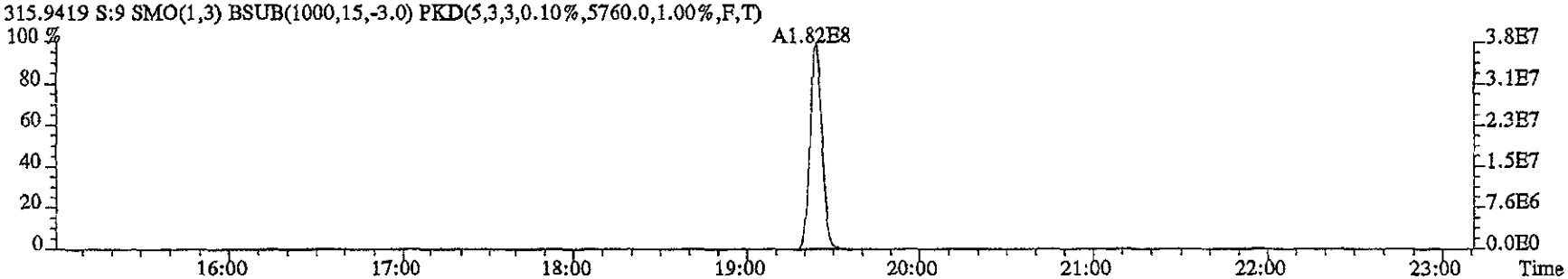
303.9016 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2796.0,1.00%,F,T)



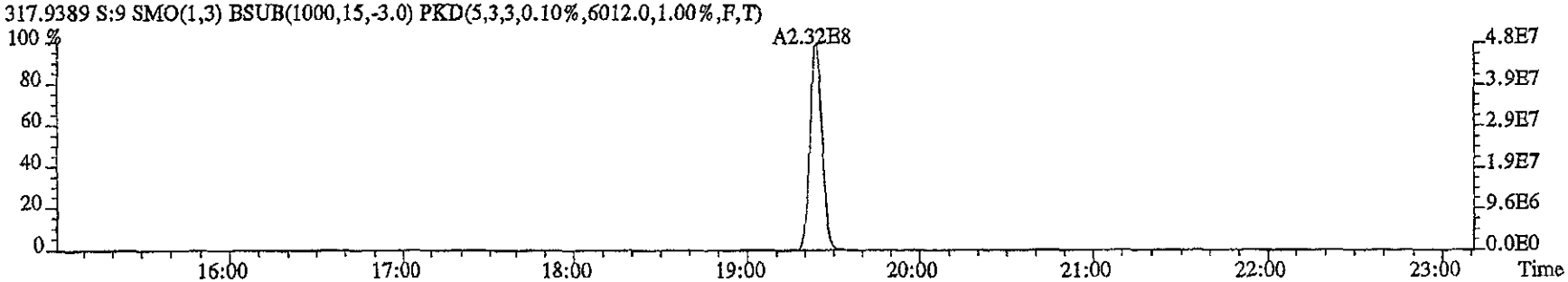
305.8987 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4060.0,1.00%,F,T)



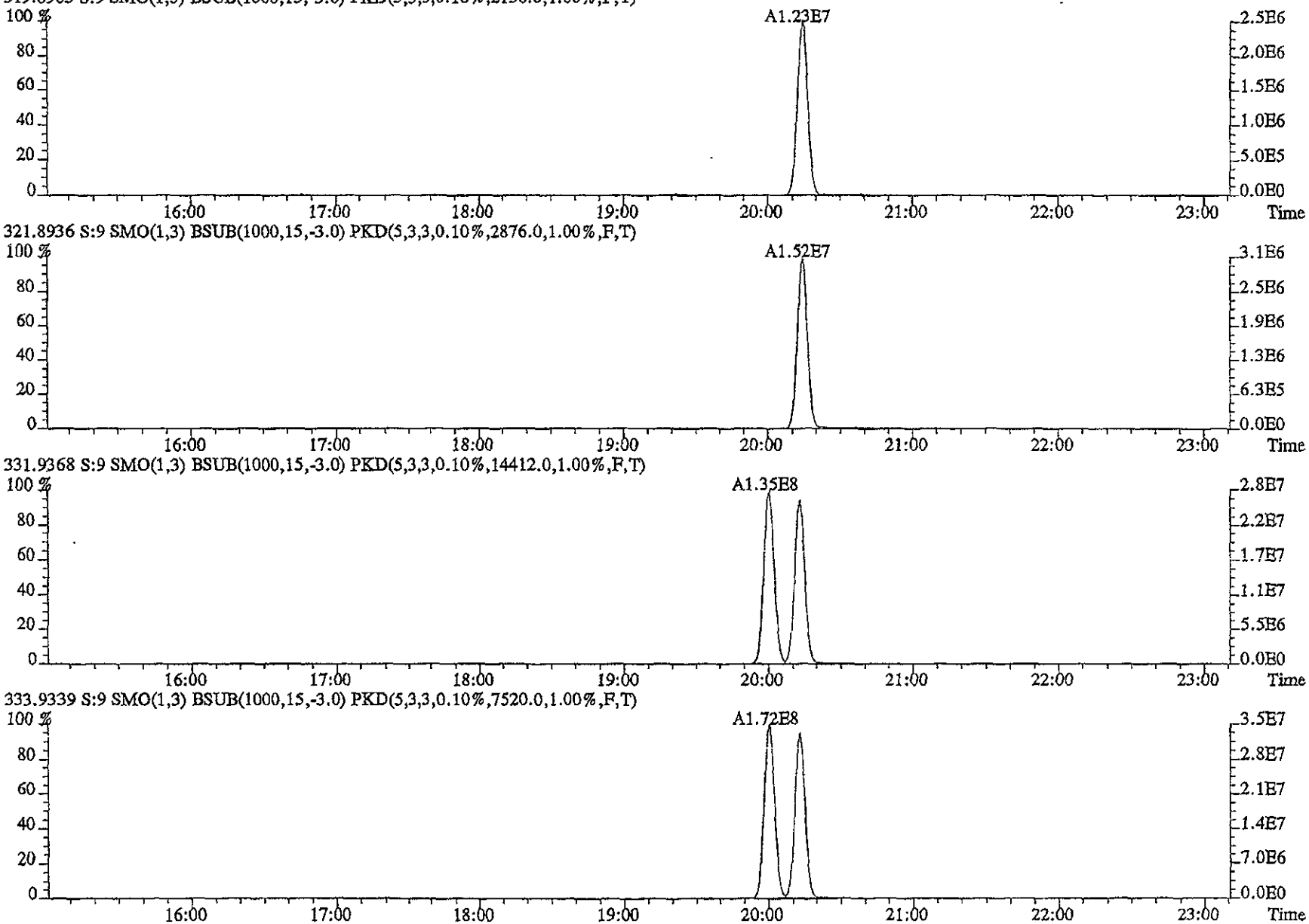
315.9419 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5760.0,1.00%,F,T)



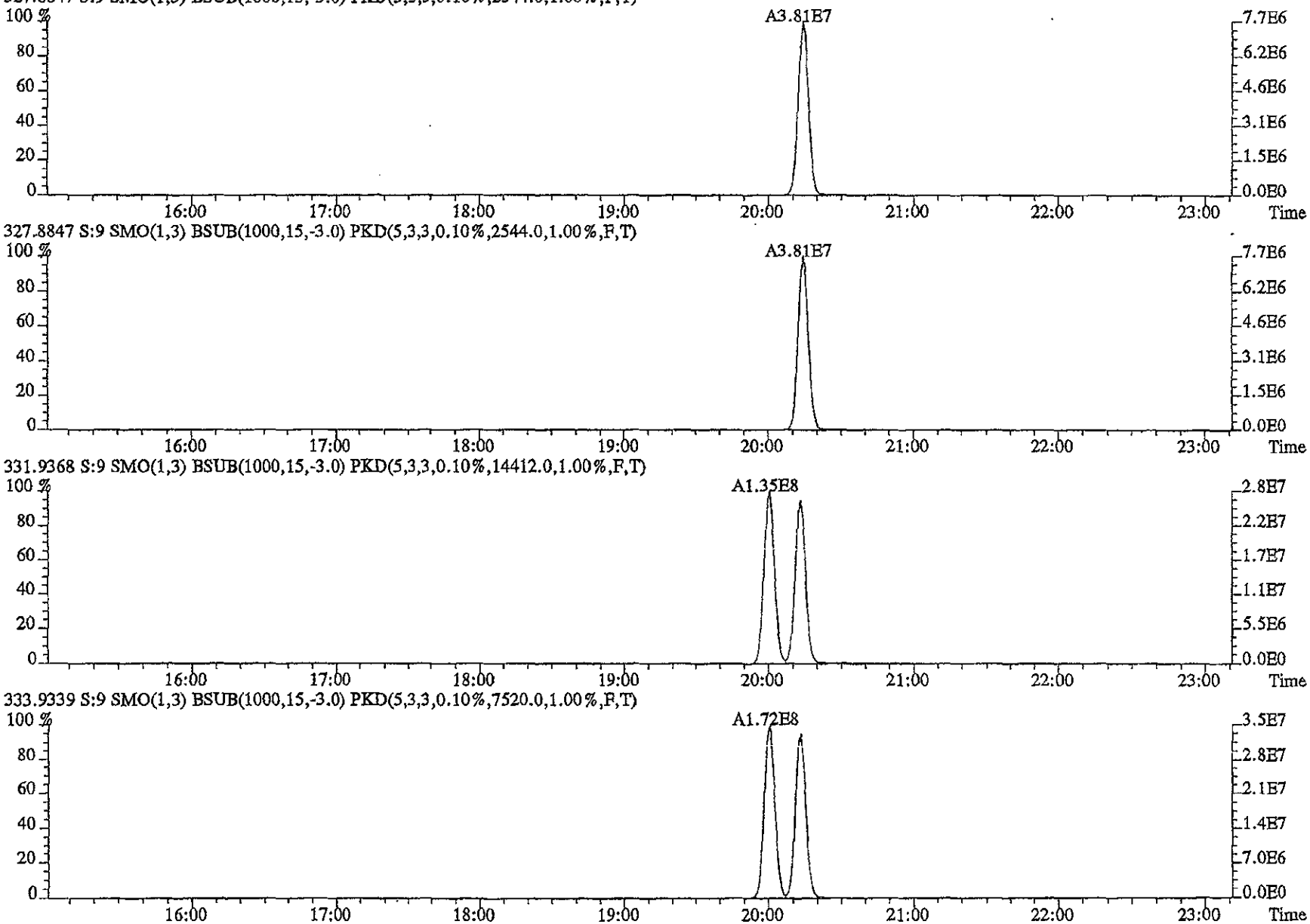
317.9389 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6012.0,1.00%,F,T)



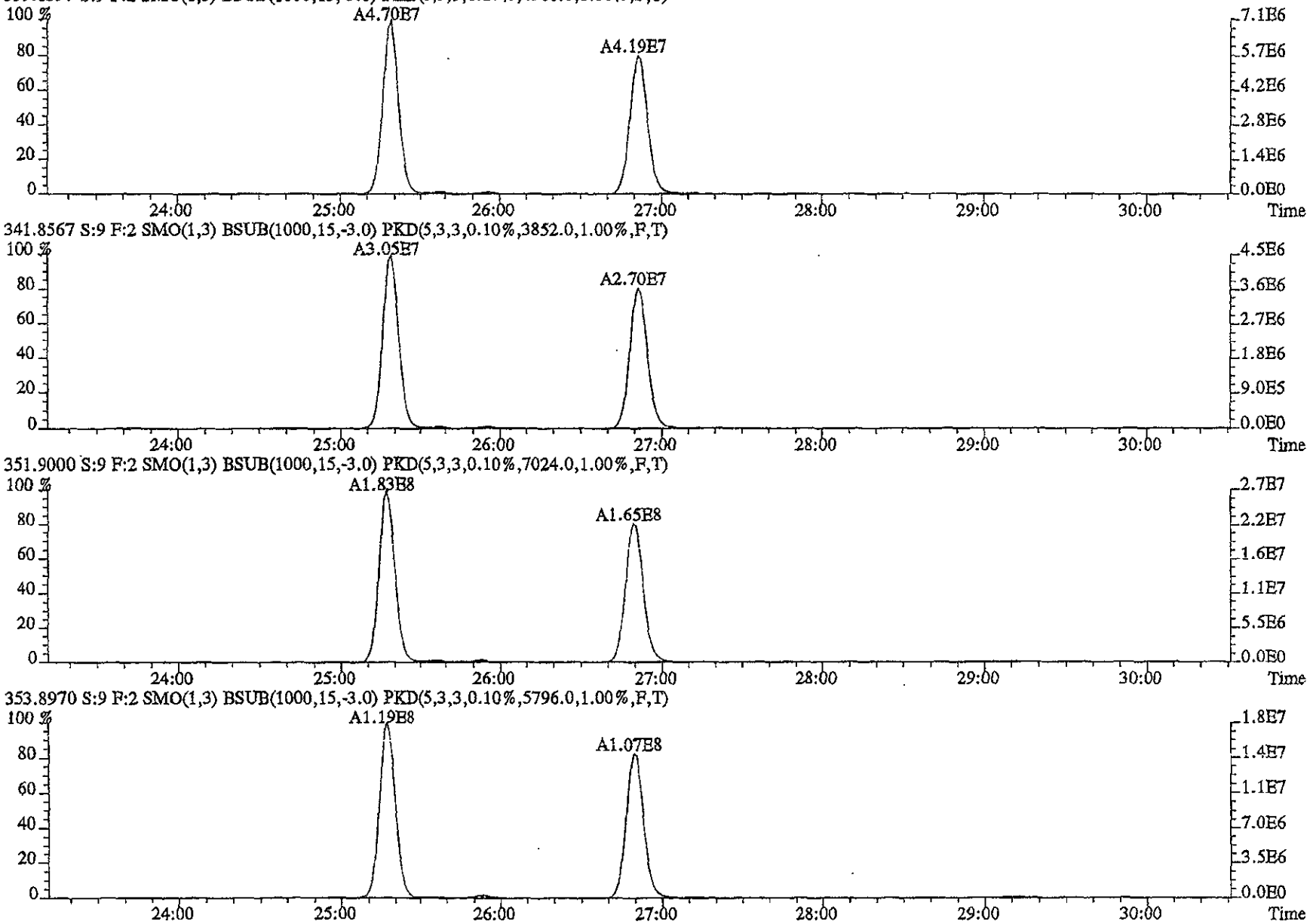
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES



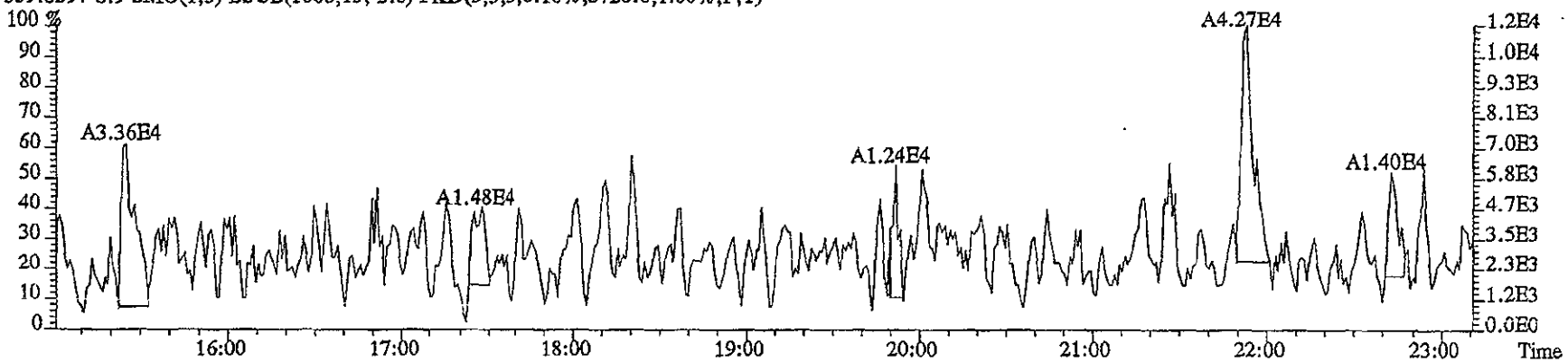
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES



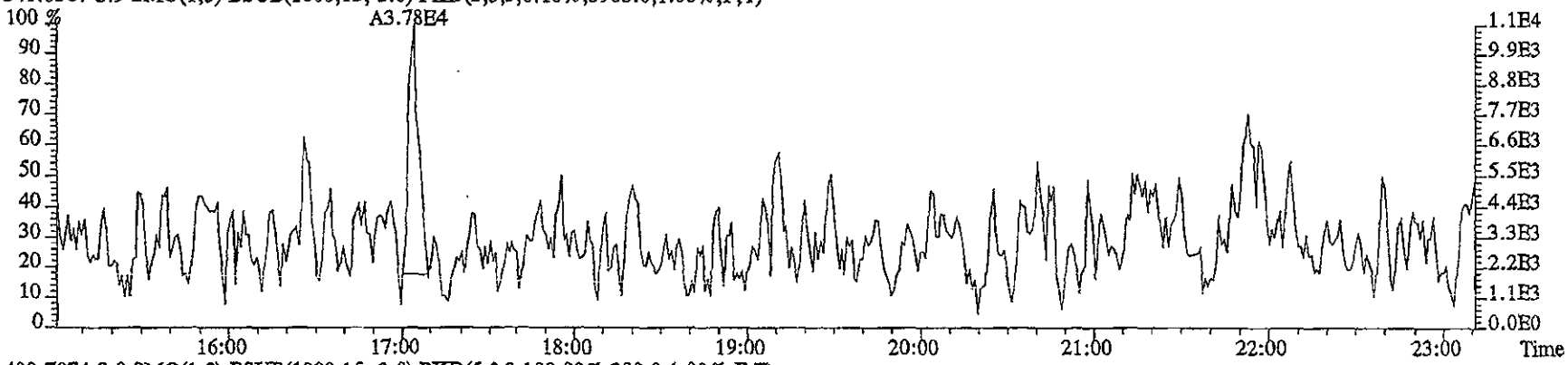
File:21JL10A4D5 #1-470 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES



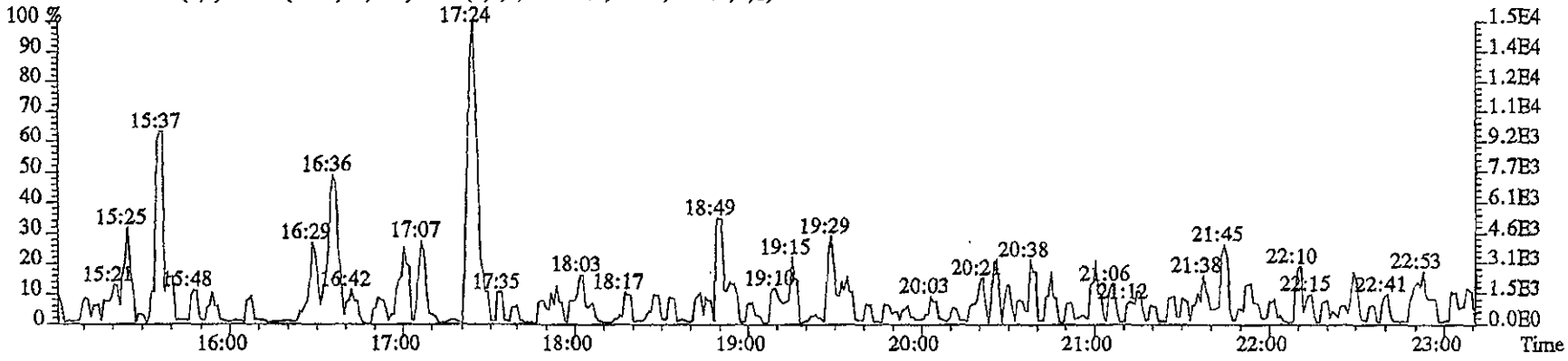
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES
339.8597 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3720.0,1.00%,F,T)



341.8567 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3968.0,1.00%,F,T)

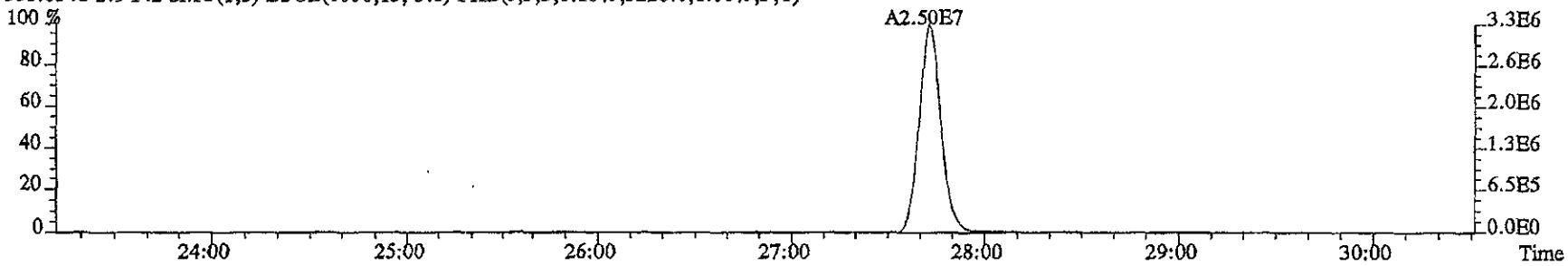


409.7974 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,200.0,1.00%,F,T)

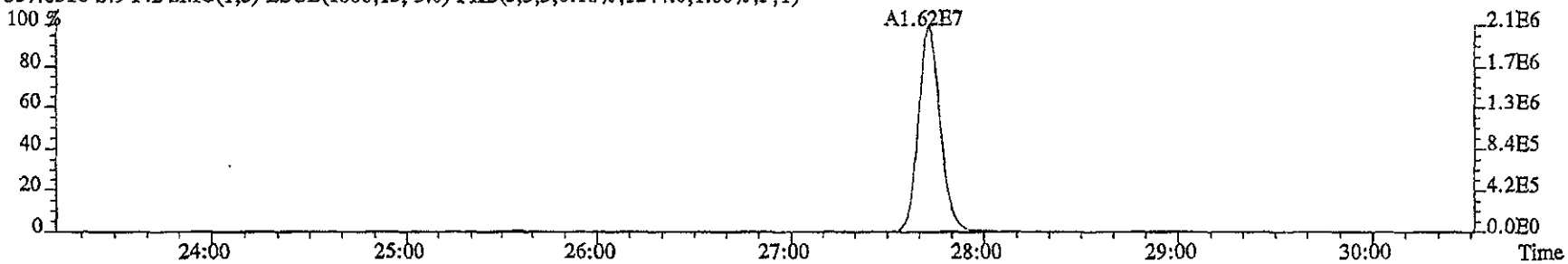


File:21JL10A4D5 #1-470 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES

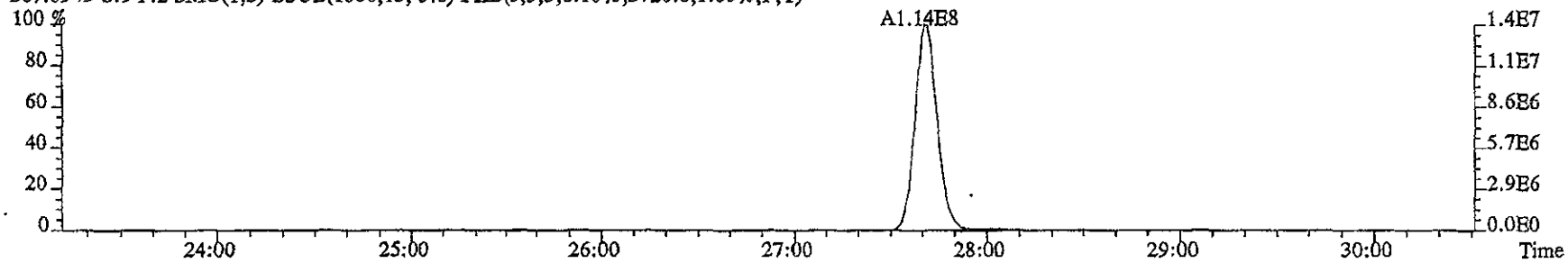
355.8546 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3228.0,1.00%,F,T)



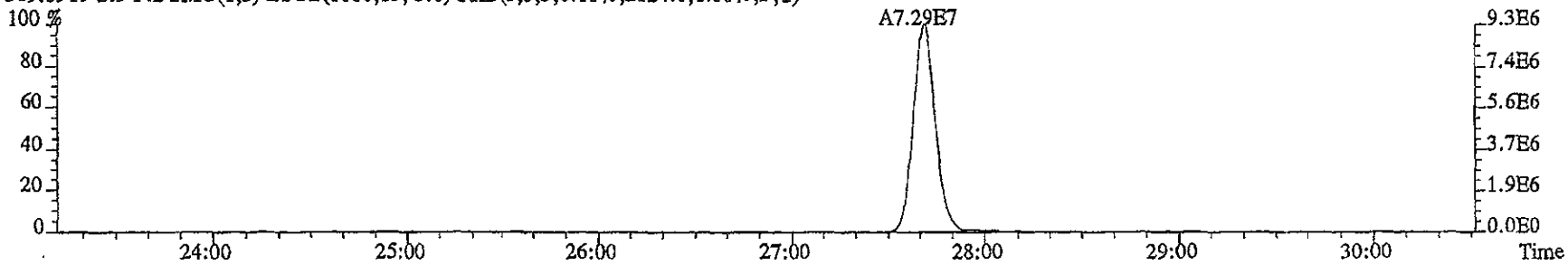
357.8516 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1244.0,1.00%,F,T)



367.8949 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3720.0,1.00%,F,T)

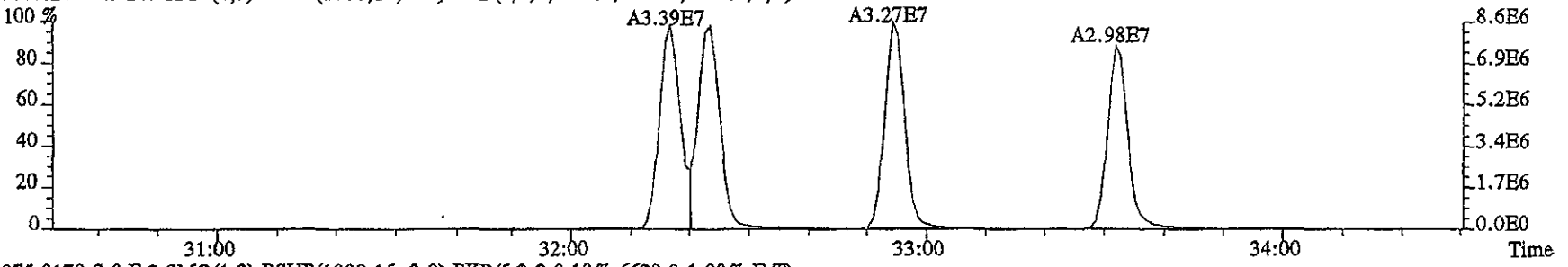


369.8919 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2124.0,1.00%,F,T)

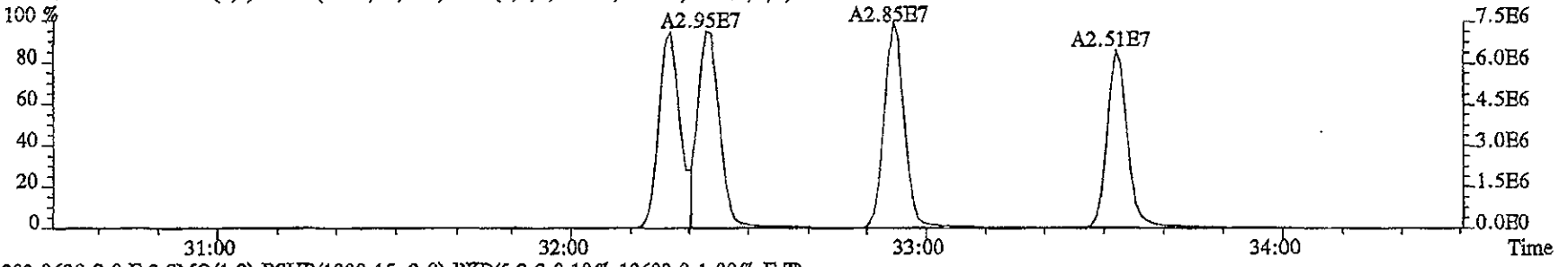


File:21JL10A4D5 #1-286 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES

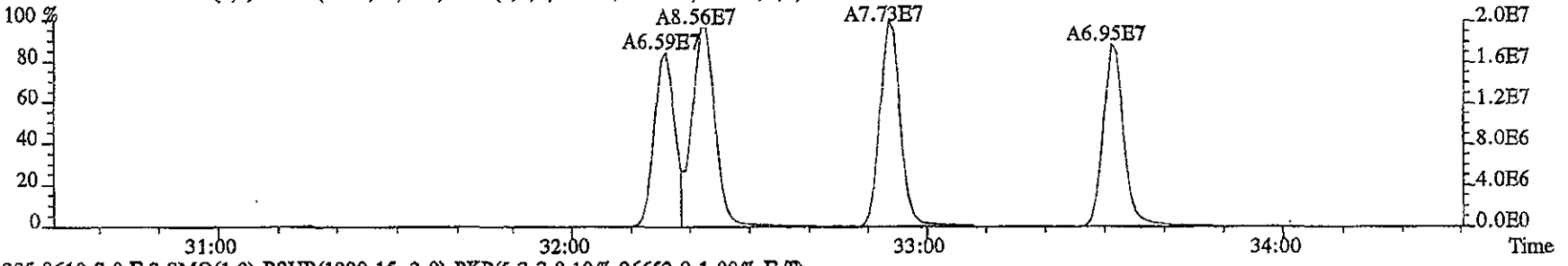
373.8208 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8664.0,1.00%,F,T)



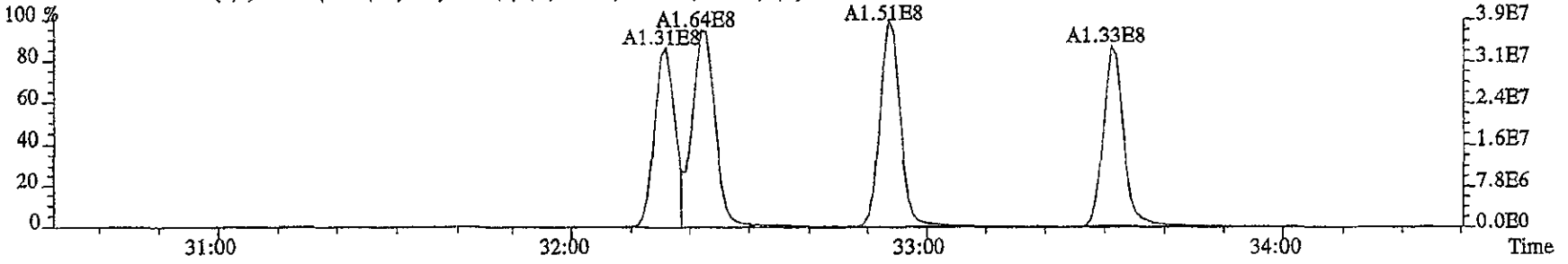
375.8178 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6628.0,1.00%,F,T)



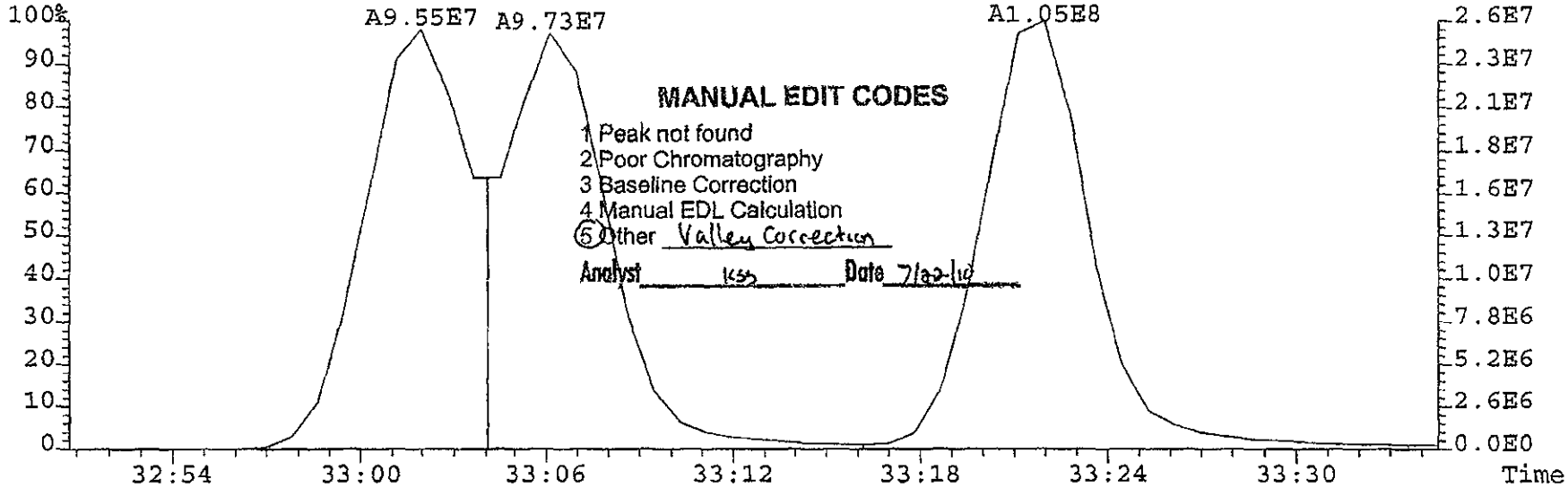
383.8639 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12608.0,1.00%,F,T)



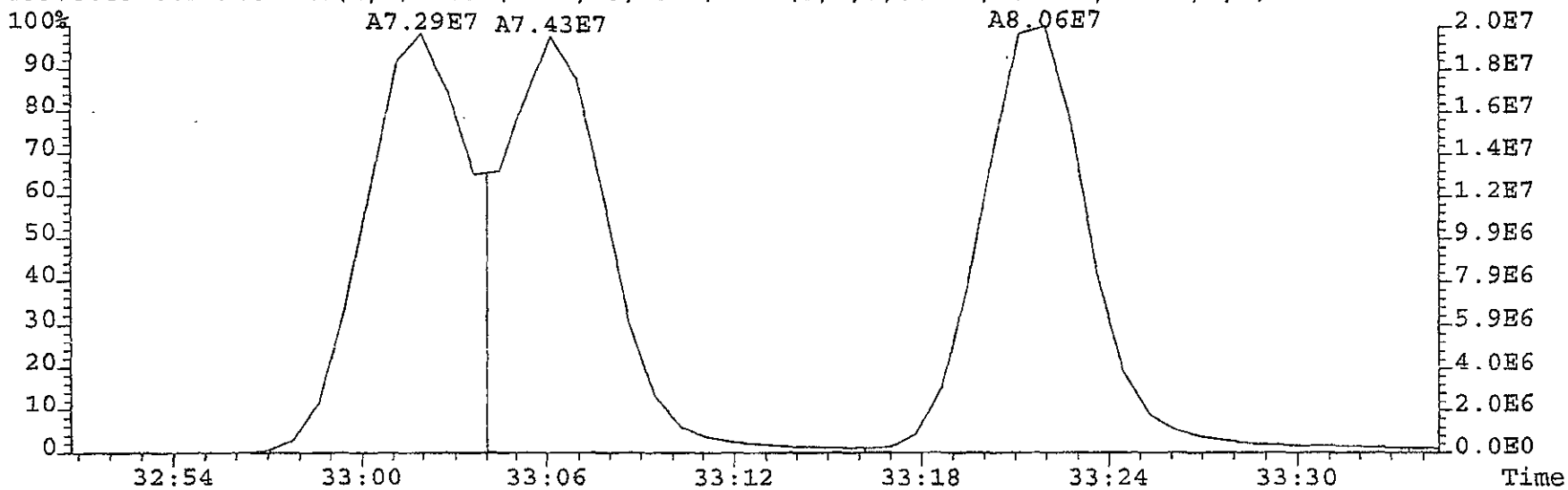
385.8610 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,26652.0,1.00%,F,T)



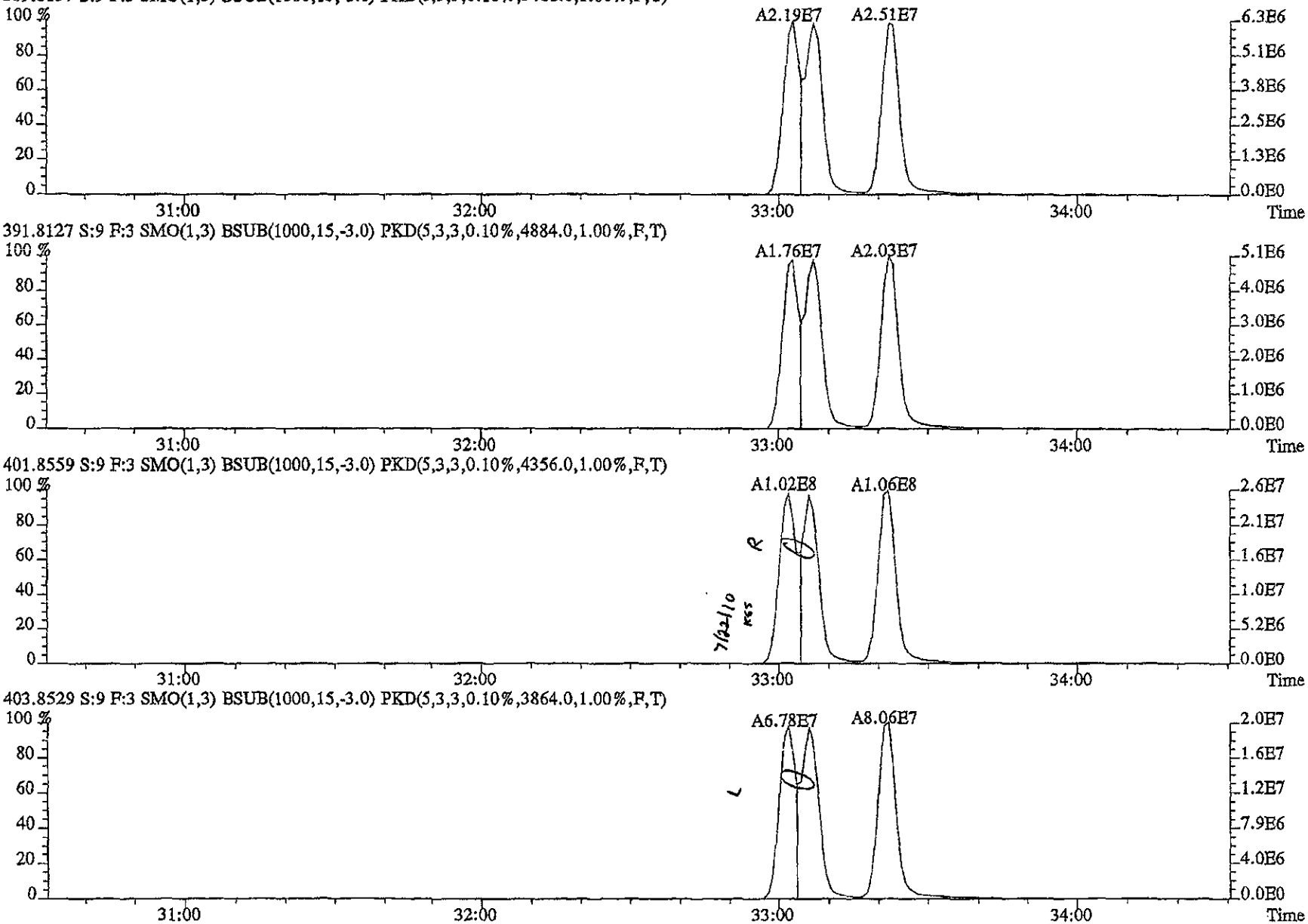
File:21JL10A4D5 #1-286 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES
401.8559 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4356.0,1.00%,F,T)



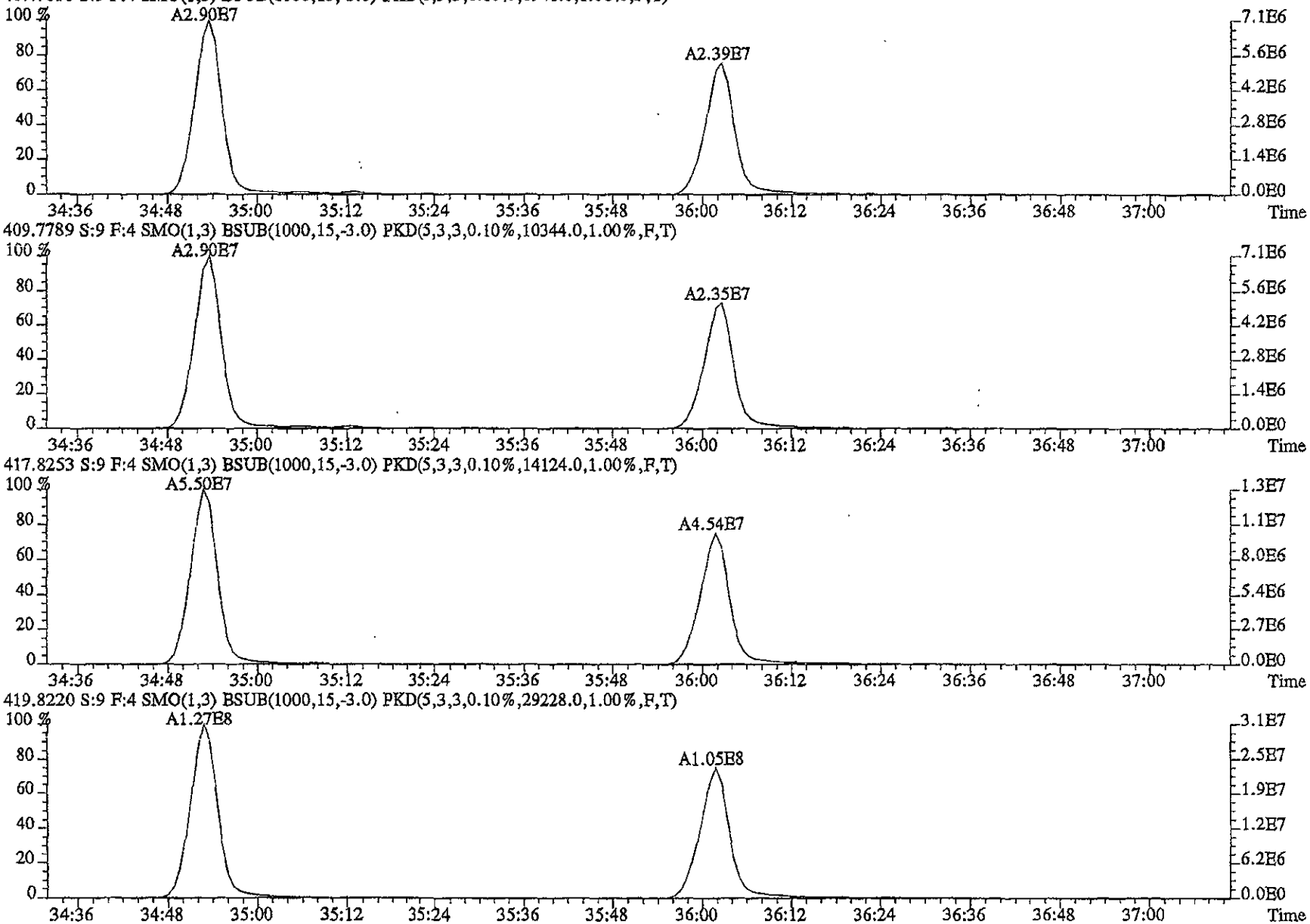
403.8529 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3864.0,1.00%,F,T)



File:21JL10A4D5 #1-286 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES

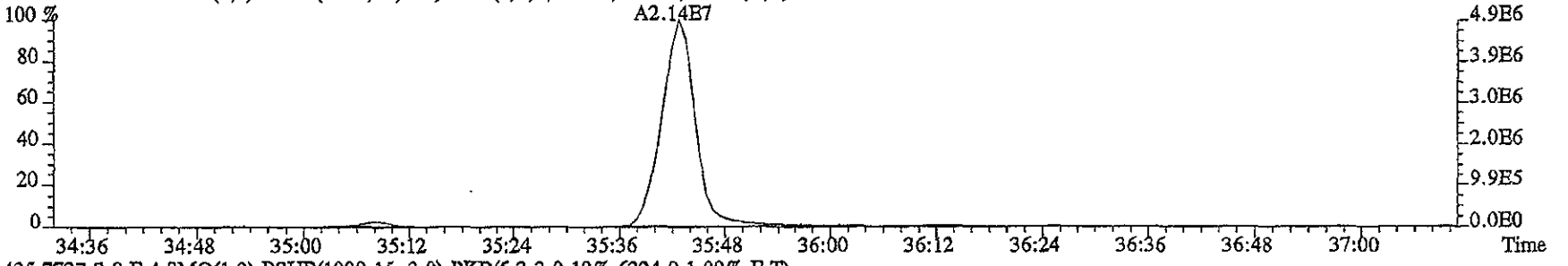


File:21JL10A4D5 #1-201 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES

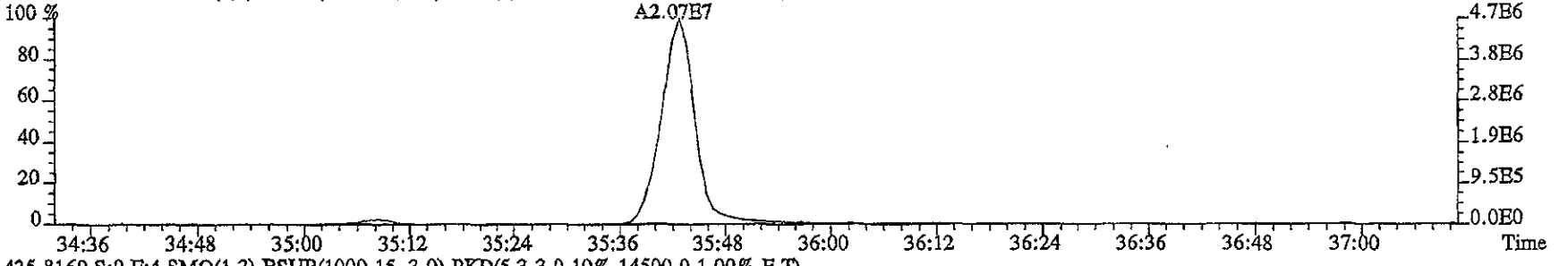


File:21JL10A4D5 #1-201 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES

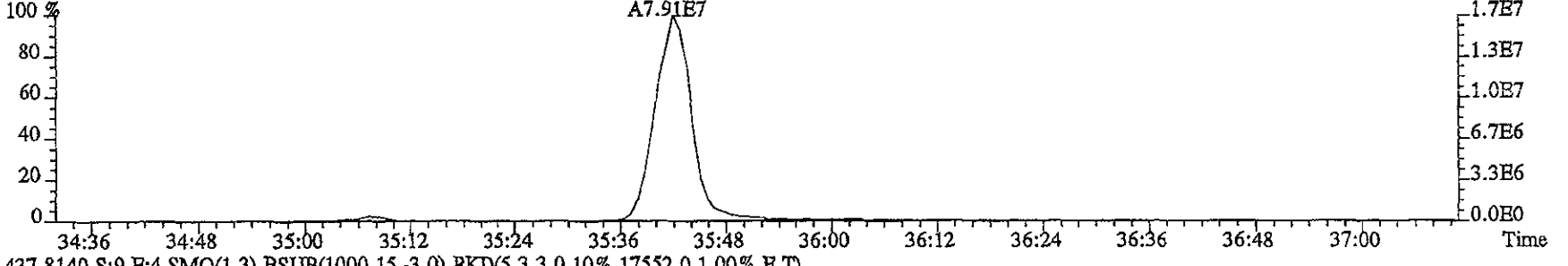
423.7766 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5152.0,1.00%,F,T)



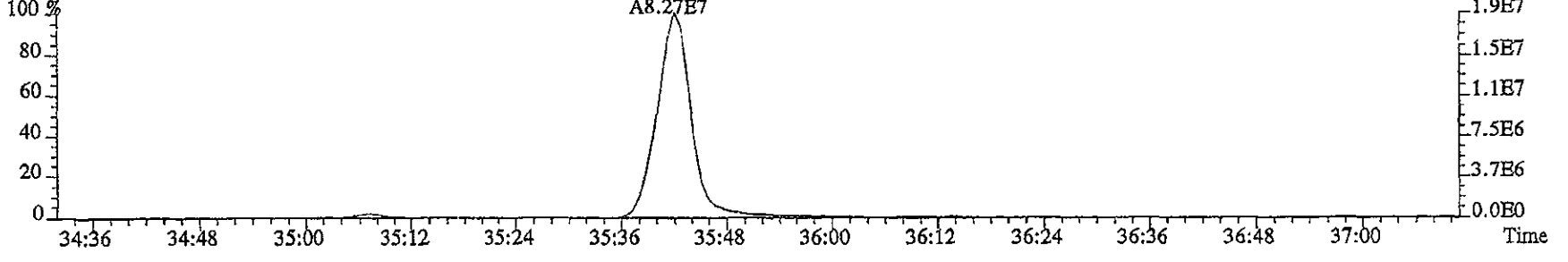
425.7737 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6224.0,1.00%,F,T)



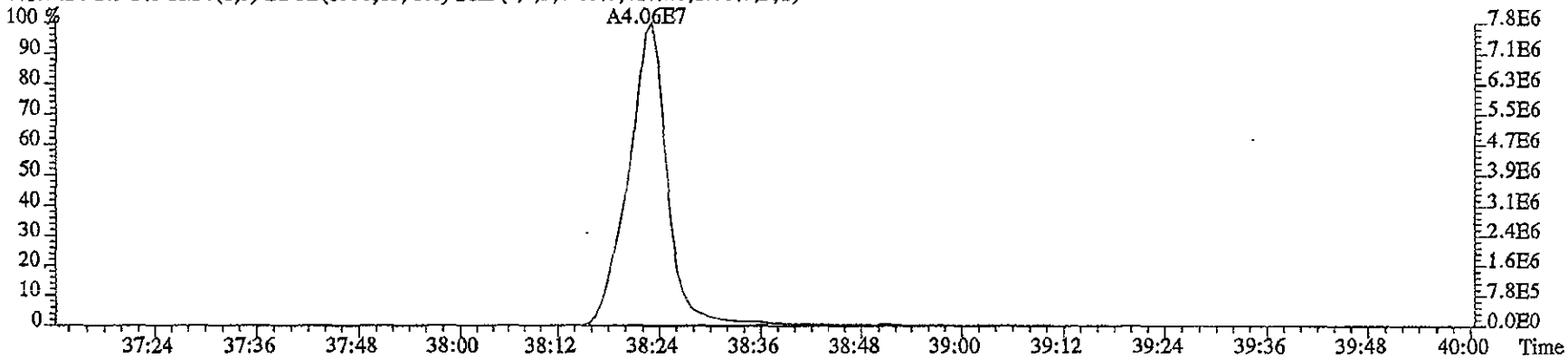
435.8169 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14500.0,1.00%,F,T)



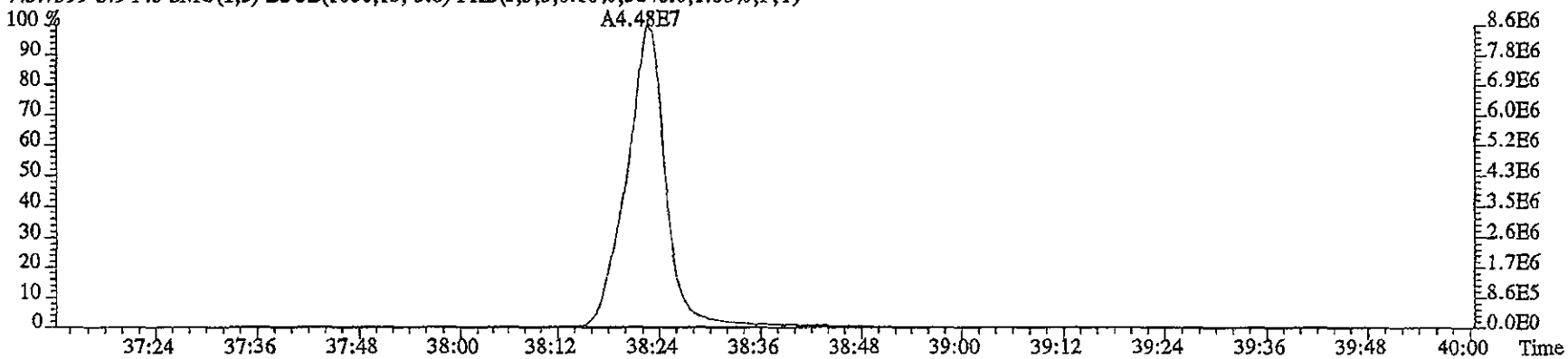
437.8140 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17552.0,1.00%,F,T)



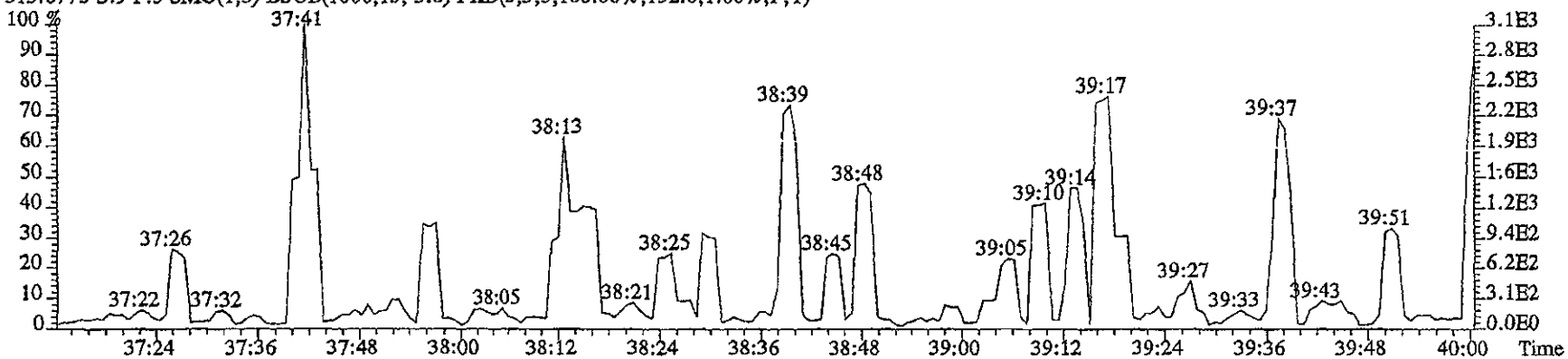
File:21JL10A4D5 #1-227 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES
441.7428 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4172.0,1.00%,F,T)



443.7399 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3848.0,1.00%,F,T)

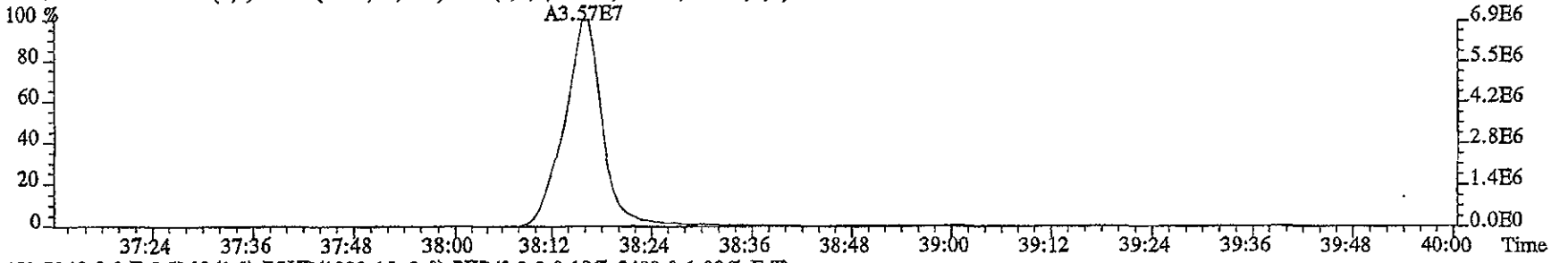


513.6775 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,132.0,1.00%,F,T)

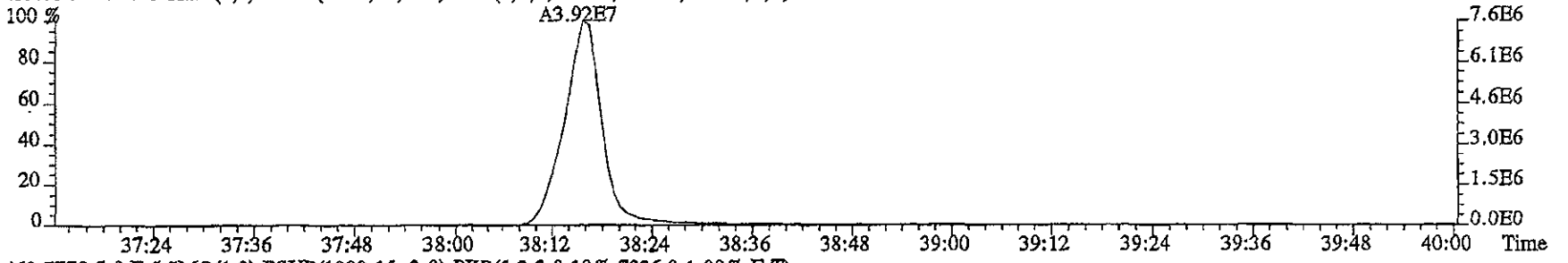


File:21JL10A4D5 #1-227 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES

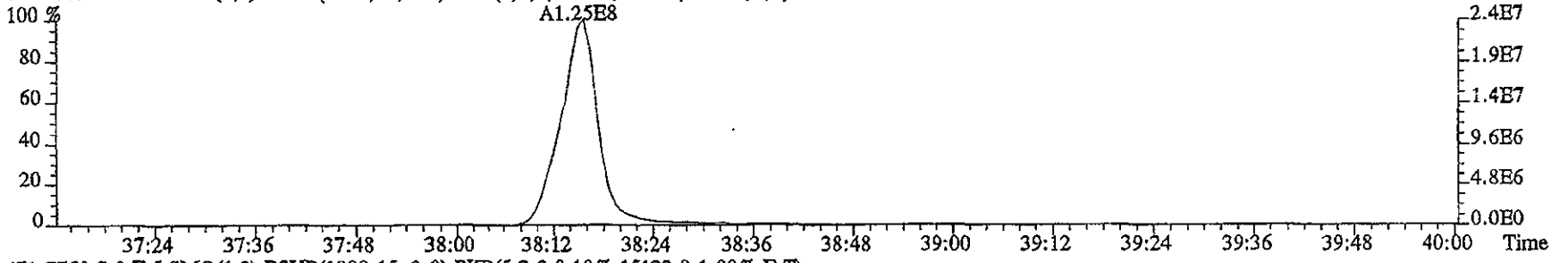
457.7377 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4572.0,1.00%,F,T)



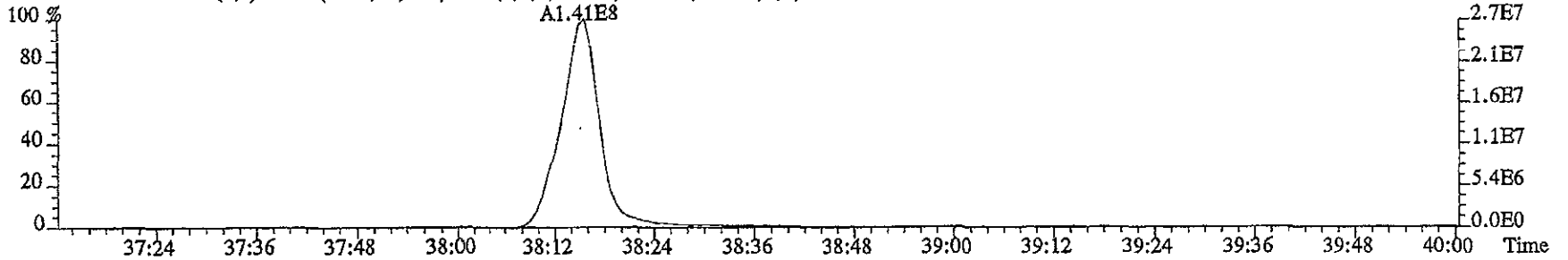
459.7348 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3480.0,1.00%,F,T)



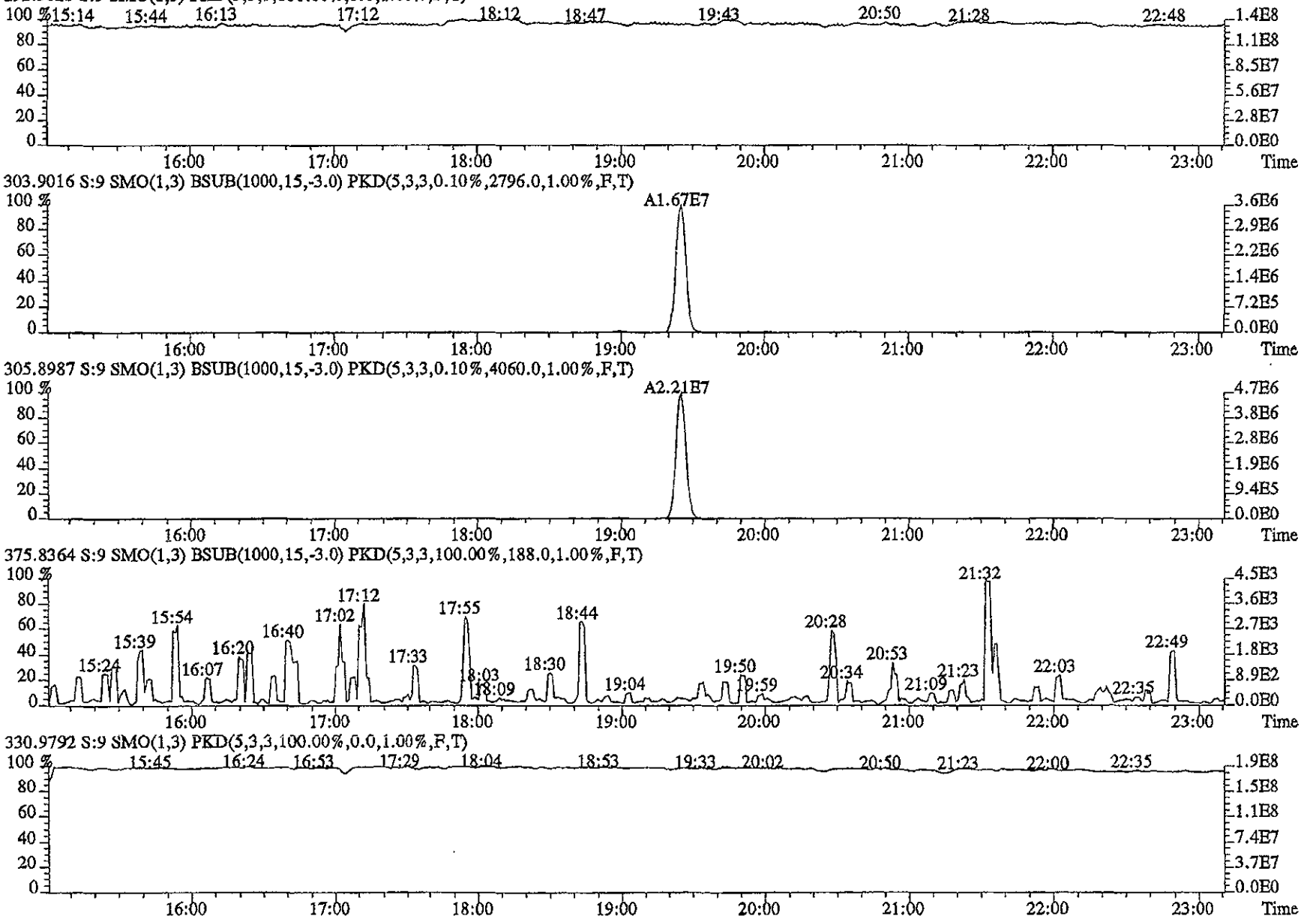
469.7779 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7336.0,1.00%,F,T)



471.7750 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15132.0,1.00%,F,T)

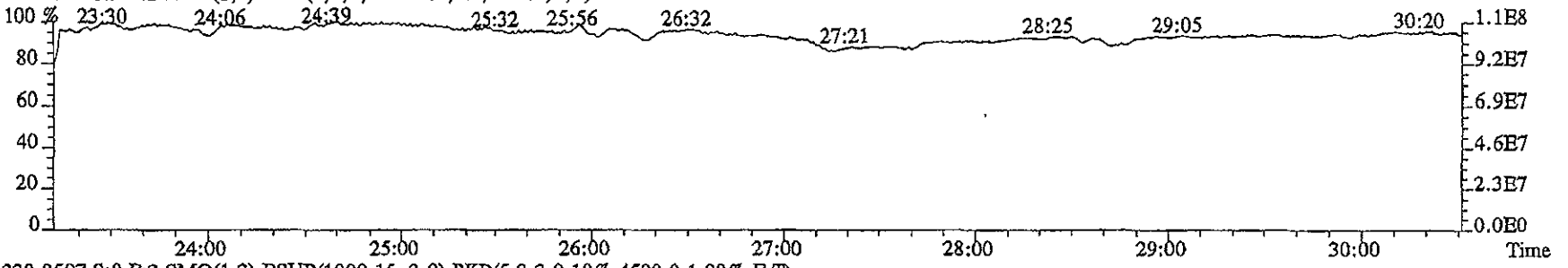


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES

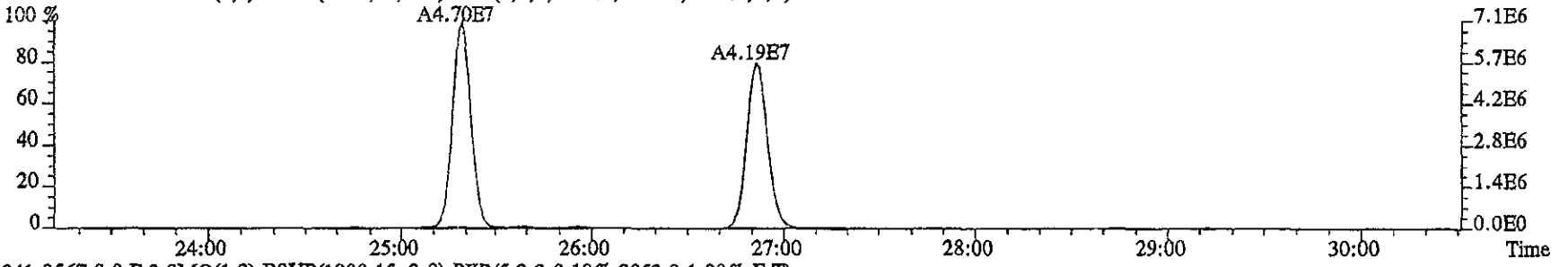


File:21JL10A4D5 #1-470 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES

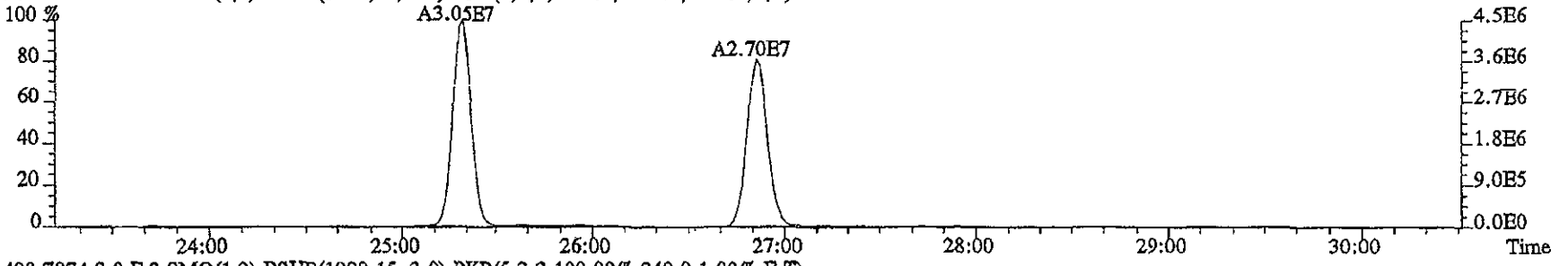
342.9792 S:9 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



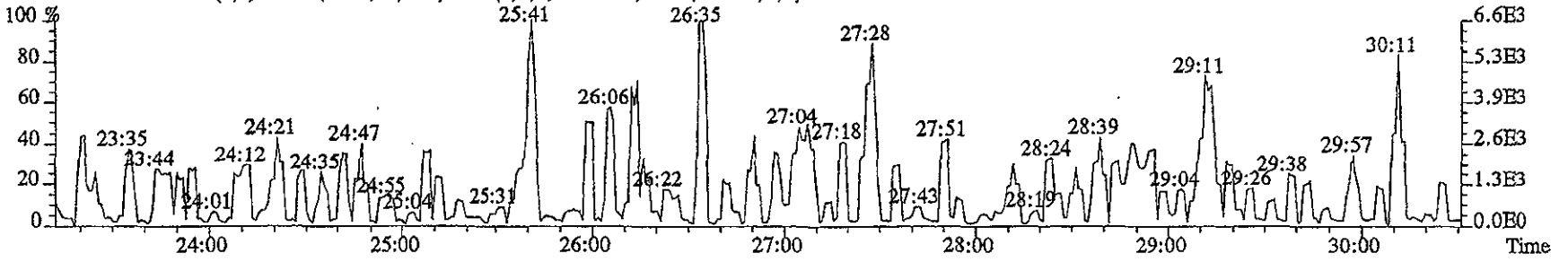
339.8597 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4500.0,1.00%,F,T)



341.8567 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3852.0,1.00%,F,T)

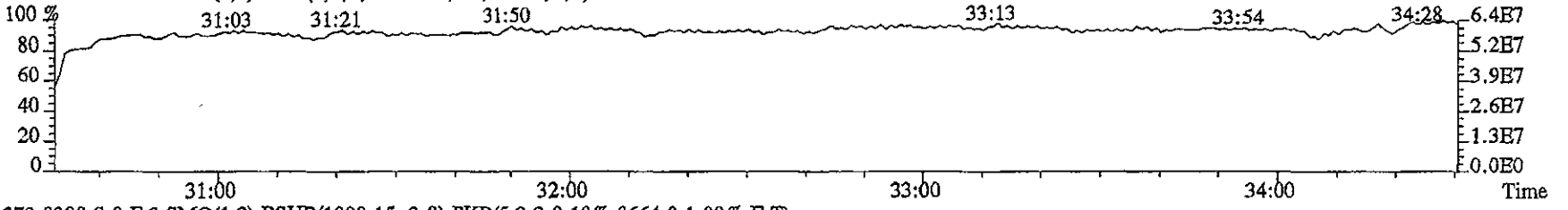


409.7974 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,240.0,1.00%,F,T)

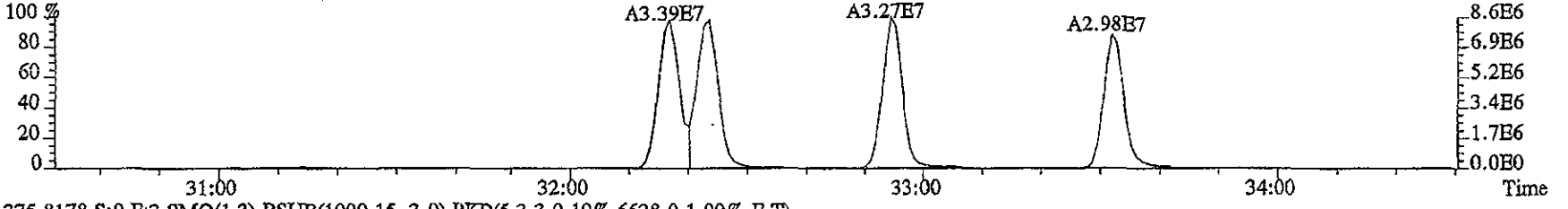


File:21JL10A4D5 #1-286 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES

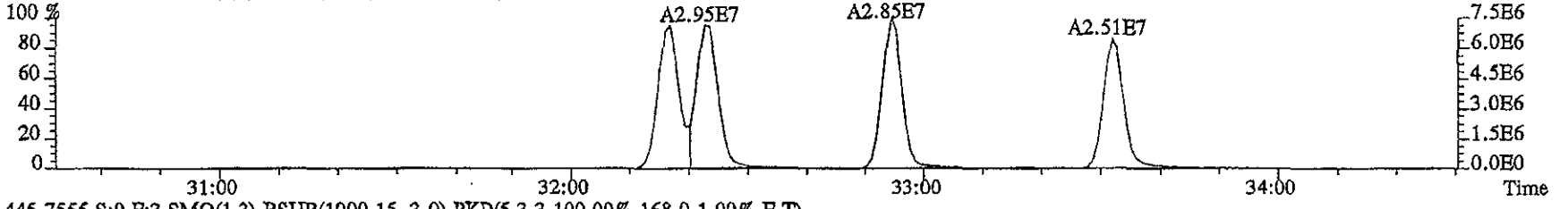
392.9760 S:9 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



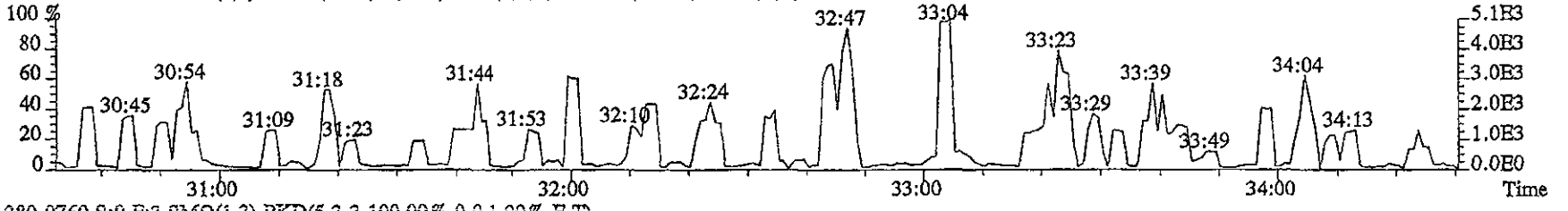
373.8208 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8664.0,1.00%,F,T)



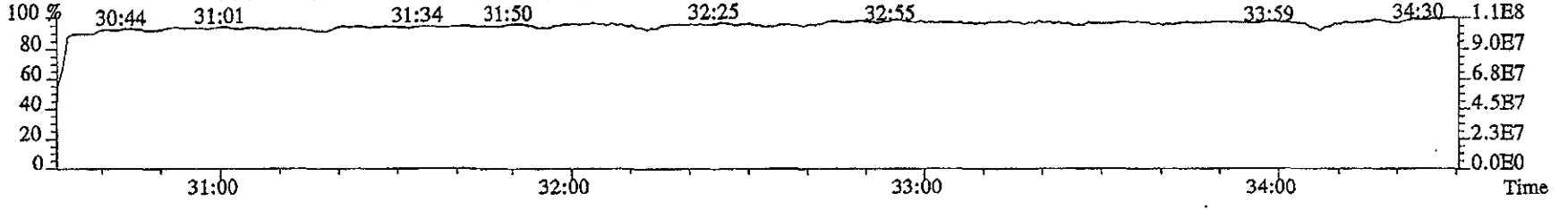
375.8178 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6628.0,1.00%,F,T)



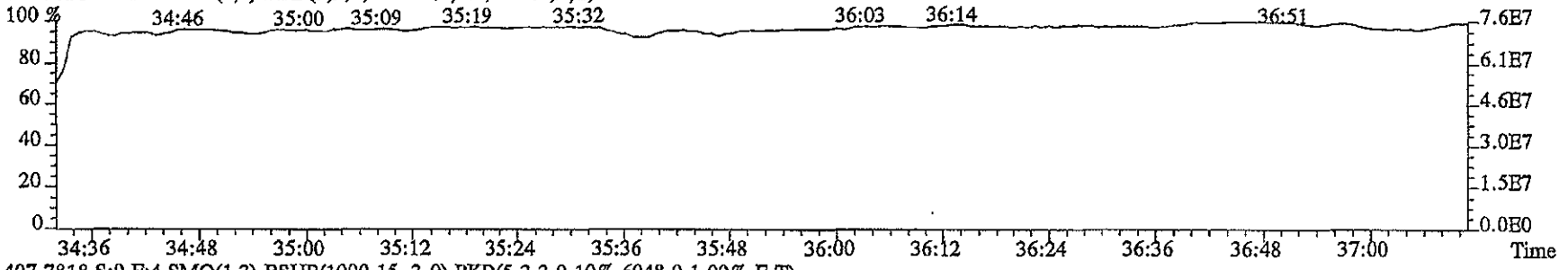
445.7555 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,168.0,1.00%,F,T)

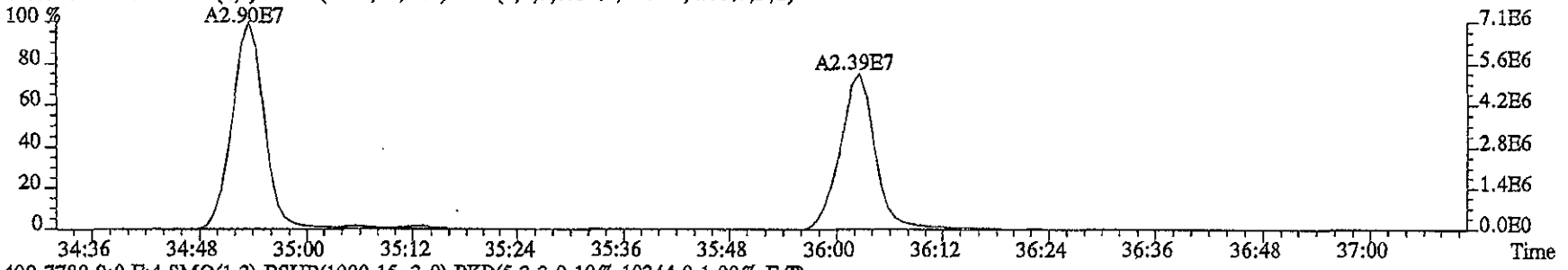


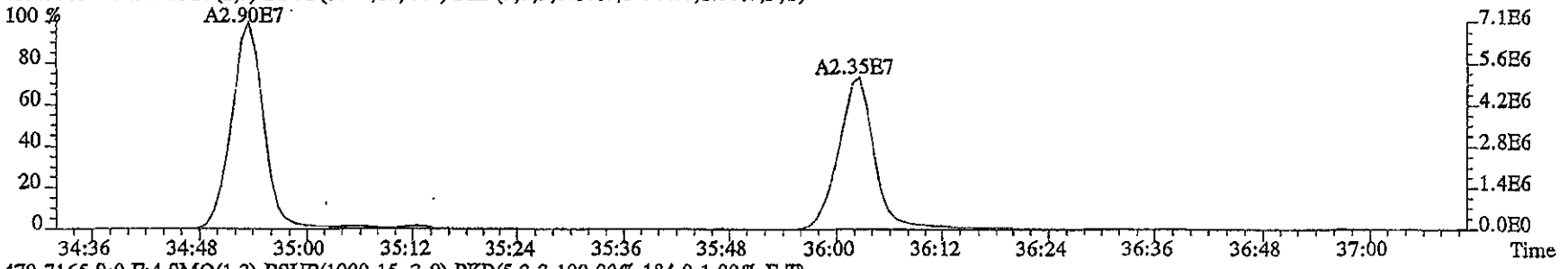
380.9760 S:9 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

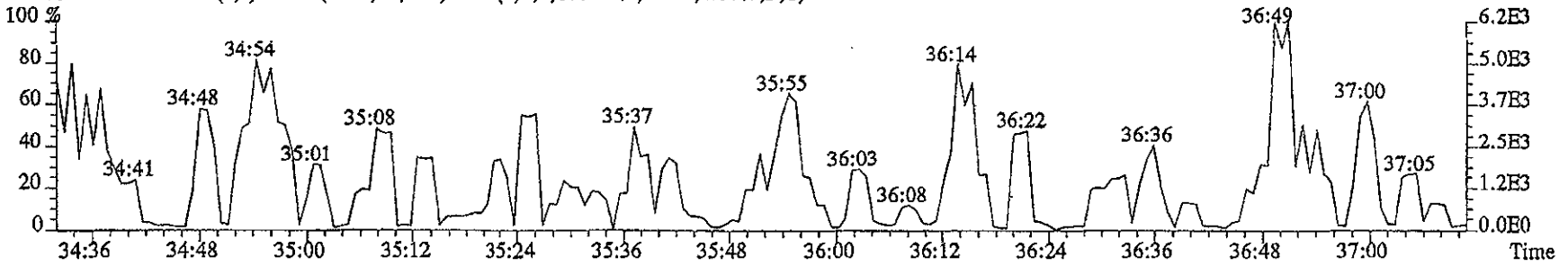


File:21JL10A4D5 #1-201 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES

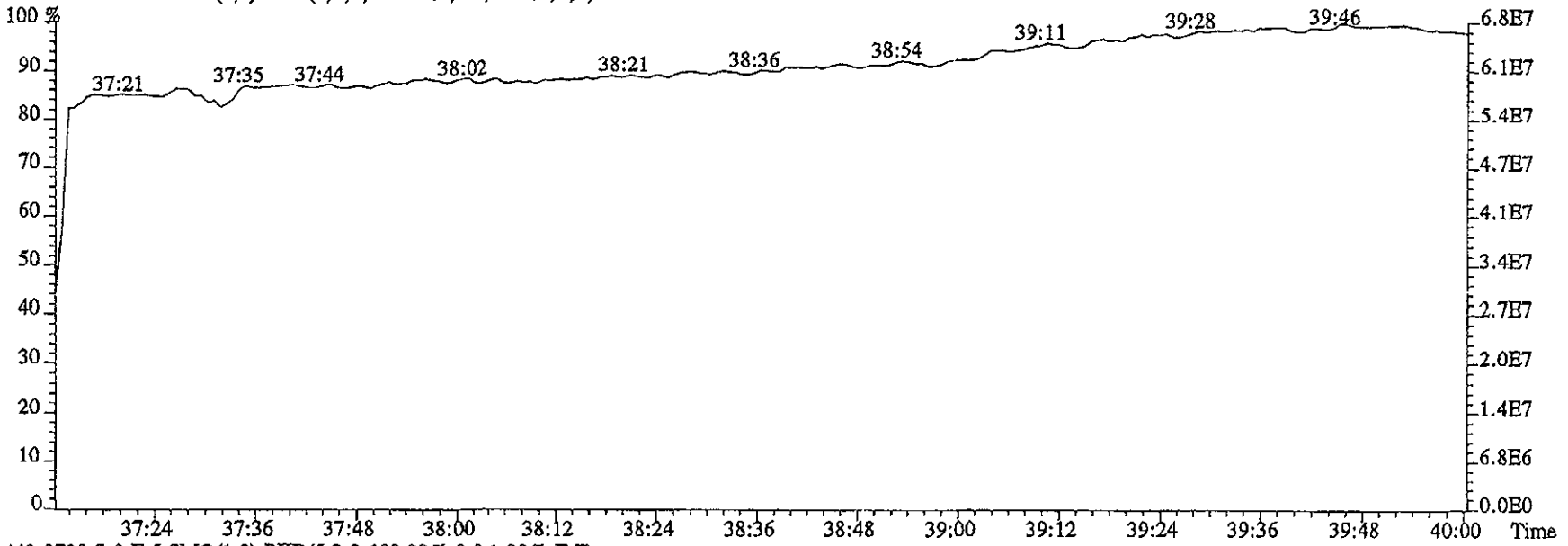




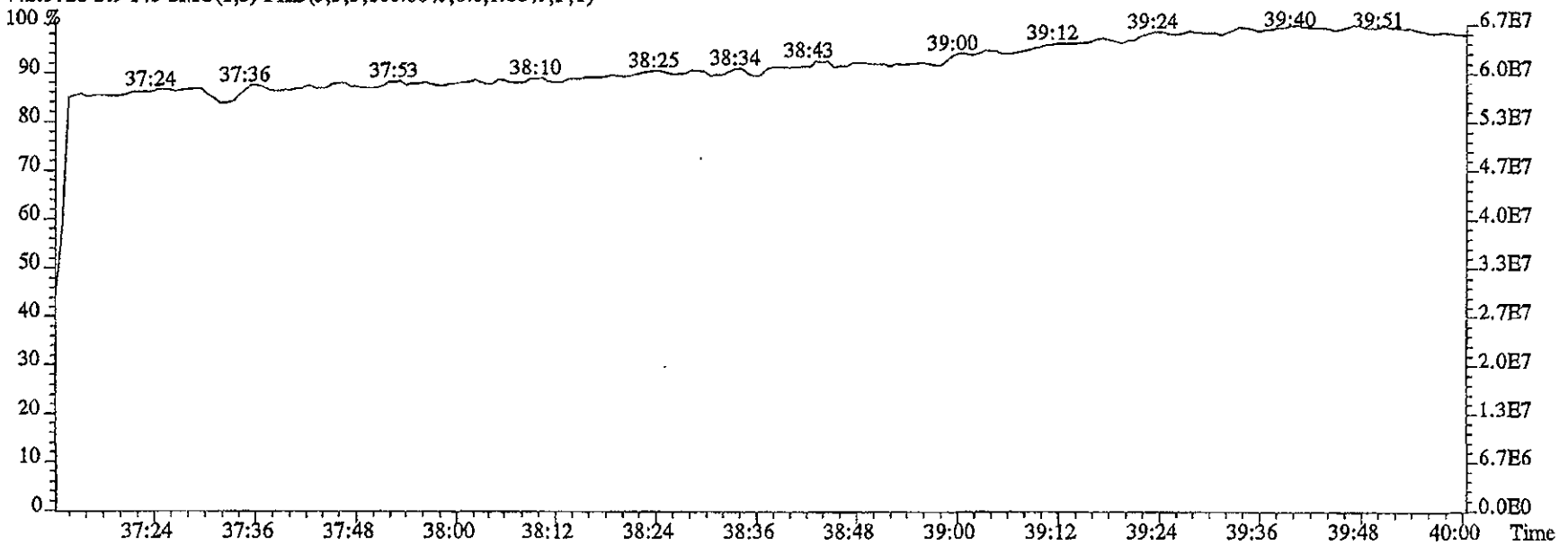




File:21JL10A4D5 #1-227 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES
454.9728 S:9 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



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



Sample Extraction/Preparation Log Copies and Checklists

TestAmerica West Sacramento
High Resolution Prep Log
Dioxin/Furan Air Extraction

Batch: 0337382
MS Run #:
Prep Date: 12/3/2010

Box # 30

Shared QC Batch: N/A

Shares QC With: N/A

Internal COC:	
Delivered to Inst.:	12/6/10
Inst Receipt:	

Method: IK TO-9
Matrix: S AIR
Extraction: 11 SOXHLET (NONE,Na2SO4)
QC: 3W AMBIENT AIR TESTING
SAC: IK - S - 11 - 3W

Soxhlet time on: 17:15 ~~(12/3/10)~~ Soxhlet time off: 12:00 ~~(12/4/10)~~

Prep Reagents		
Reagent	Supplier	Lot #
Toluene	Baker	J26N70
Hexane	Baker	V29E20
H2SO4	Baker	NA
20% DCM:Hexane	NA	36285C
65% DCM:Hexane	NA	36330-87B
1:1 DCM:Cyclohexane	NA	NA
75:20:5 DCM:Hexane:Benzene	NA	ND
Silica Gel	Whatman	4022-100
Acid Alumina	MPBIO	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
G0L020446 - 1		MAQQV1AA	12/6/2010	1.0	✓		1/12/2011			5
G0L020446 - 5		MAQQ61AA	12/7/2010	1.0	✓		1/12/2011			7
G0L020446 - 8		MAQRD1AA	12/7/2010	1.0	✓		1/12/2011			6
G0L030000 - 382	B	MAVWM1AA	12/6/2010	1.0	✓	12/6/10	1/12/2011	12/6/10		5
G0L030000 - 382	C	MAVWM1AC	12/6/2010	1.0	✓		1/12/2011			7
G0L030000 - 382	L	MAVWM1AD	12/6/2010	1.0	✓		1/12/2011			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	2.0mL/10DXN463/5290/1613 Daily IS	12/16/10	ECJ	TP	12/3/10
Spike Mix LCS/LCSD ~~/MS/MS~~ ECJ 12/3/10	100uL/10DXN431/5290/1613 Daily NS	9/2/11	ECJ	TP	12/3/10
Pre-Spike Standard MB ~~/LCS/LCSD~~ ECJ 12/3/10	200uL/10DXN429/TO-9 Daily Surr	7/19/11	ECJ	TP	12/3/10
Recovery Standard All Samples	20uL 10DXN428 12/6/10	10/28/11			12/6/10
Soxhlet Extraction Analyst/Date	ECJ 12/3/10				

Split/Archive 1/2 Analyst/Date	Option C Analyst/Date	IFB Analyst/Date	D2 Analyst/Date
T.L 12/06/10	—	12/6/10	—

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 12/06/10
Time: 14:59:17

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: 403162 erica X. larson

Concentrationist: 006625 Elizabeth Nguyen

QC BATCH: 0337382

PREP DATE: 12/03/10 17:00
COMP DATE: 12/06/10 17:00

Reviewer/Date: NGUYENE / 12/06/10

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	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
		G0L020446-001													
12/06/10	12/09/10	**MAQQV-1-AA**	R	11	IK	AIR	1	NA	NA	NA	TOL	750.0	C14	20.0	
COMMENTS:							20.00uL								2.0ML IS10DXN463
		G0L020446-005													
12/07/10	12/09/10	**MAQQ6-1-AA**	R	11	IK	AIR	1	NA	NA	NA	TOL	750.0	C14	20.0	
COMMENTS:							20.00uL								2.0ML IS10DXN463
		G0L020446-008													
12/07/10	12/09/10	**MAQRD-1-AA**	R	11	IK	AIR	1	NA	NA	NA	TOL	750.0	C14	20.0	
COMMENTS:							20.00uL								2.0ML IS10DXN463
		G0L030000-382													
12/06/10	0/00/00	**MAVWM-1-AAB**		11	IK	AIR	1	NA	NA	NA	TOL	750.0	C14	20.0	200.0UL 10DXN429
COMMENTS:							20.00uL								2.0ML IS10DXN463
		G0L030000-382													
12/06/10	0/00/00	**MAVWM-1-ACC**		11	IK	AIR	1	NA	NA	NA	TOL	750.0	C14	20.0	100.0UL 10DXN431
COMMENTS:							20.00uL								2.0ML IS10DXN463
		G0L030000-382													
12/06/10	0/00/00	**MAVWM-1-ADL**	R	11	IK	AIR	1	NA	NA	NA	TOL	750.0	C14	20.0	100.0UL 10DXN431
COMMENTS:							20.00uL								2.0ML IS10DXN463

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 6

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 0337382 **Test:** To-9

Prep Date: 12/03/10 **Holding Times:** 12/06/10 **NCM:** Y N

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1. **Holding times checked?** NCMs filed as appropriate	✓	✓
2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)	✓	✓
3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match.	✓	NA
4. Worksheets have been checked for required spiking compounds	✓	✓
5. Spiking volumes are correctly documented	✓	✓
6. Std ID numbers on spike labels match numbers on bench sheet	✓	NA
7. Expiration dates have been checked	✓	✓
8. Calibration expiration dates on pipettors have been checked	✓	NA
9. Spiker and spike witness have signed and dated bench sheet	✓	✓
B. Weights and Volumes		
1. Recorded weights are in anticipated range	NA	✓
2. Balance upload or raw data for weights is included	NA	✓
3. Weights and volumes have been transcribed correctly to LIMS.	NA	✓
4. Weights are not targeted to meet exact weights.	NA	✓
5. Each weight or volume measurement is a unique record (no dittos or line downs)	NA	✓
C. Standards and Reagents		
1. Lot numbers for all reagents, including clean up stages, are recorded.	NA	✓
2. Are dates and analysts for cleanups recorded?	NA	✓
3. Are correct IDs used for standards? Are expiration dates to day/month/year, when listed?	NA	✓
D. Documentation		✓
1. Are all nonconformances documented appropriately?	NA	✓
2. QuantIMs entry correct, including dates and times.	NA	✓
3. Are all fields completed?	NA	✓

Spike witness: [signature] Date: 12/03/10

2nd Level Reviewer: [signature] Date: 12/6/10

Comments:

TestAmerica West Sacramento

Data Checklist
HRGCMS/LRGCMS Analyses

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Batch #: 0337382 Method ID: Dioxins/Furans, HRGC/HRMS (TO-9)

	DB-5	DB-225
Data Analyst:	MCa	NA
Date initiated:	12/8/10	
Reviewer:	[illegible]	
Date reviewed:	12/8/2010	

QA/QC verification:	Initiated DB-5	Reviewed DB-5	Initiated DB-225 (High Res Only)	Reviewed DB-225 (High Res Only)
-Daily standard package(s) present?	✓	✓	NA	
-Method Blank present?	✓	✓		
-LCS/DCS copy present and meets native recovery criteria?	✓	✓		
-Internal standard recoveries within limits?*	✓	✓		
-Ion ratios within + 15% of theoretical values?	(1)	(1)		
-Other QC (Dup,MS,SD) within specs?**	NA	NA		

Sample Analysis:	Initiated DB-5	Reviewed DB-5	Initiated DB-225 (High Res Only)	Reviewed DB-225 (High Res Only)
-Correct sample aliquot used?	✓	✓		
-All raw data present?	✓	✓		
-Standard target DL's used? If RL's are used specify:_____	✓	✓		
-DL's below TDL / LCL (please circle)?	✓	✓		
-All positives reported at levels greater than method blank DL's?	✓	✓		
-Correct RRF's used for method?	✓	✓		
-Internal standard amounts correct for method?	✓	✓		
-Target analytes are not saturated?	✓	✓		
-Dilution/splitting of extract taken into account?	✓	✓		
-Have dilution calculations been verified?	✓	✓		
-Has a manual calculation for the sequence(s) been verified?	✓	✓		
-Are retention times (RT) correct?	✓	✓		
-Manual integrations checked?	✓	✓		

Comments: (Use other side if necessary)
(1) See NCM

* Recovery limits:		**RPD limits:
NCASI 551:	40-120%***	50%
Method 8290:	40-135%***	20%
Method 1613:	25-150%***	50%
Method 23:	40-130%***(Cl4-Cl6), 25-130%(Cl7-8), 70-130%(surr.)	50%
PCBs:	25-150%***	50%
Method 8280:	40-120%***	
DFLM01.0:	25-150%***	
Method 1614	25-150%***	

*** Lower recoveries are acceptable if I.S. S/N ≥10:1 and DL's are <LCL for target analytes.

AIR, Metals by ICPMS (As and Mn)

Raw Data Package

ICPMS

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 101207A2	Batch Numbers 336286,	Date 12-07-10	Analyst SH

Lot Numbers: 60K190601, 60K240587, 60K270427, 60K300434, 60L020446	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:	SH
DATE:	12/8/10	DATE:	12-7-10

Dataset Report

Perkin Elmer M02
SOP No. SAC-MT-0001
Method: 6020,200.8

User Name: metal
Computer Name: SACP1223
Dataset File Path: e:\elandata\dataset\101207a2\
Report Date/Time: Tuesday, December 07, 2010 14:13:29

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Description	
	TUNE SHARGRAVE	06:49:13 Tue 07-Dec-10	Sample		
	AUTOLENS SHARGF	06:53:04 Tue 07-Dec-10	Sample		
	DAILY SHARGRAVE	07:34:13 Tue 07-Dec-10	Sample		
	Rinse 2X	09:12:39 Tue 07-Dec-10	Sample		
	Blank	09:15:34 Tue 07-Dec-10	Blank		
	Standard 1	09:18:24 Tue 07-Dec-10	Standard #1		
	ICV	09:20:59 Tue 07-Dec-10	Sample		
	ICV	09:25:16 Tue 07-Dec-10	Sample		
	ICB	10:24:20 Tue 07-Dec-10	Sample		
	LLSTD1	10:26:59 Tue 07-Dec-10	Sample	LLSTD@10X → out A1	
	LLSTD2	10:29:38 Tue 07-Dec-10	Sample	LLSTD@5X	
	ICSA	10:32:16 Tue 07-Dec-10	Sample		
	ICSAB	10:34:53 Tue 07-Dec-10	Sample		
	Rinse	11:11:19 Tue 07-Dec-10	Sample		
336286	MARD8B	11:17:36 Tue 07-Dec-10	Sample	G0L020000-286 BLK	} don't use
336286	MARD8C	11:20:11 Tue 07-Dec-10	Sample	G0L020000-286 LCS	
336286	MARD8L	11:22:45 Tue 07-Dec-10	Sample	G0L020000-286 LCSD	
	CCV 1	11:25:24 Tue 07-Dec-10	Sample		
	CCB 1 > Recal	11:50:24 Tue 07-Dec-10	Sample	> 7 IS	
	CCV 2	12:03:37 Tue 07-Dec-10	Sample		
	CCB 2	12:06:16 Tue 07-Dec-10	Sample		
	LLSTD1	12:08:56 Tue 07-Dec-10	Sample	LLSTD@10X ✓	
335251	MAPEVB	12:23:45 Tue 07-Dec-10	Sample	G0L010000-251 BLK	} report A1
335251/53	MAPEVC	12:26:21 Tue 07-Dec-10	Sample	G0L010000-251 LCS	
335253/51	MAPE7L	12:28:56 Tue 07-Dec-10	Sample	G0L010000-251 LCSD	
335251	MAA80	12:31:29 Tue 07-Dec-10	Sample	G0K190601-3	
335251	MAA80P5	12:34:01 Tue 07-Dec-10	Sample	G0K190601-3 5X	
335251	MAA80Z	12:36:33 Tue 07-Dec-10	Sample	G0K190601-3 PS	
335251	MAA81	12:39:06 Tue 07-Dec-10	Sample	G0K190601-4	
335251	MAKDV	12:41:39 Tue 07-Dec-10	Sample	G0K240587-1	
335251	MAKD2	12:44:12 Tue 07-Dec-10	Sample	G0K240587-2	
	CCV 3	12:46:51 Tue 07-Dec-10	Sample		
	CCB 3	12:49:31 Tue 07-Dec-10	Sample		
	CCV 4	12:55:08 Tue 07-Dec-10	Sample		
	CCB 4	12:57:47 Tue 07-Dec-10	Sample		
336286	MARD8B	13:00:24 Tue 07-Dec-10	Sample	G0L020000-286 BLK	} report As
336286	MARD8C	13:02:59 Tue 07-Dec-10	Sample	G0L020000-286 LCS	
336286	MARD8L	13:05:33 Tue 07-Dec-10	Sample	G0L020000-286 LCSD	
340010	MAWLKB	13:08:09 Tue 07-Dec-10	Sample	G0L060000-10 BLK	} report As, Mn
340010	MAWLKC	13:10:44 Tue 07-Dec-10	Sample	G0L060000-10 LCS	
340010	MAWLKL	13:13:20 Tue 07-Dec-10	Sample	G0L060000-10 LCSD	
340010	MAML1	13:15:54 Tue 07-Dec-10	Sample	G0K300434-2	
340010	MAML1P5	13:18:28 Tue 07-Dec-10	Sample	G0K300434-2 5X	
340010	MAML1Z	13:21:03 Tue 07-Dec-10	Sample	G0K300434-2 PS	
340010	MAML6	13:23:37 Tue 07-Dec-10	Sample	G0K300434-3	
	CCV 5	13:26:17 Tue 07-Dec-10	Sample		
	CCB 5	13:28:56 Tue 07-Dec-10	Sample		

341211	MA0J7B	13:39:35 Tue 07-Dec-10	Sample	G0L070000-211 BLK
341211	MA0J7C	13:42:11 Tue 07-Dec-10	Sample	G0L070000-211 LCS
341211	MA0J7L	13:44:47 Tue 07-Dec-10	Sample	G0L070000-211 LCSD
341211	MAQQ1	13:47:22 Tue 07-Dec-10	Sample	G0L020446-3
341211	MAQQ1P5	13:49:58 Tue 07-Dec-10	Sample	G0L020446-3 5X
341211	MAQQ1Z	13:52:33 Tue 07-Dec-10	Sample	G0L020446-3 PS
341211	MAQQ4	13:55:09 Tue 07-Dec-10	Sample	G0L020446-4
341211	MAQRA	13:57:44 Tue 07-Dec-10	Sample	G0L020446-7
341211	MAQRH	14:00:19 Tue 07-Dec-10	Sample	G0L020446-10
	CCV 6	14:02:57 Tue 07-Dec-10	Sample	
	CCB 6	14:05:37 Tue 07-Dec-10	Sample	

report As, Mn

TAL West Sac

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) Instrument: M02 Reported: 12/07/10 14:26:16

File ID: 101207A2 **Analyst: hargraves**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	Rinse 2X				2.0	12/07/10 09:12		☐
2	Blank				1.0	12/07/10 09:15		☐
3	Standard1				1.0	12/07/10 09:18		☐
4	ICV				1.0	12/07/10 09:20		☐
5	ICV				1.0	12/07/10 09:25		☐
6	ICB				1.0	12/07/10 10:24		☐
7	LLSTD1				1.0	12/07/10 10:26		☐
8	LLSTD2				1.0	12/07/10 10:29		☐
9	ICSA				1.0	12/07/10 10:32		☐
10	ICSAB				1.0	12/07/10 10:34		☐
11	Rinse				1.0	12/07/10 11:11		☐
12	MARD8B	G0L020000	0336286	2A	1.0	12/07/10 11:17		☐
13	MARD8C	G0L020000	0336286	2A	1.0	12/07/10 11:20		☐
14	MARD8L	G0L020000	0336286	2A	1.0	12/07/10 11:22		☐
15	CCV 1				1.0	12/07/10 11:25		☐
16	CCB 1				1.0	12/07/10 11:50		☐
19	CCV 2				1.0	12/07/10 12:03		☐
20	CCB 2				1.0	12/07/10 12:06		☐
21	LLSTD1				1.0	12/07/10 12:08		☐
22	MAPEVB	G0L010000	0335251	2A	1.0	12/07/10 12:23		☐
23	MAPEVC	G0L010000	0335251	2A	1.0	12/07/10 12:26		☐
24	MAPE7L	G0L010000	0335253	2A	1.0	12/07/10 12:28		☐
25	MAA80	G0K190601-3	0335251	2A	1.0	12/07/10 12:31		☐
26	MAA80P5	G0K190601	0335251		5.0	12/07/10 12:34		☐
27	MAA80Z	G0K190601-3	0335251		1.0	12/07/10 12:36		☐
28	MAA81	G0K190601-4	0335251	2A	1.0	12/07/10 12:39		☐
29	MAKDV	G0K240587-1	0335251	2A	1.0	12/07/10 12:41		☐
30	MAKD2	G0K240587-2	0335251	2A	1.0	12/07/10 12:44		☐
31	CCV 3				1.0	12/07/10 12:46		☐
32	CCB 3				1.0	12/07/10 12:49		☐
33	CCV 4				1.0	12/07/10 12:55		☐
34	CCB 4				1.0	12/07/10 12:57		☐
35	MARD8B	G0L020000	0336286	2A	1.0	12/07/10 13:00		☐
36	MARD8C	G0L020000	0336286	2A	1.0	12/07/10 13:02		☐
37	MARD8L	G0L020000	0336286	2A	1.0	12/07/10 13:05		☐
38	MAWLKB	G0L060000	0340010	2A	1.0	12/07/10 13:08		☐
39	MAWLKC	G0L060000	0340010	2A	1.0	12/07/10 13:10		☐
40	MAWLKL	G0L060000	0340010	2A	1.0	12/07/10 13:13		☐
41	MAML1	G0K300434-2	0340010	2A	1.0	12/07/10 13:15		☐
42	MAML1P5	G0K300434	0340010		5.0	12/07/10 13:18		☐
43	MAML1Z	G0K300434-2	0340010		1.0	12/07/10 13:21		☐
44	MAML6	G0K300434-3	0340010	2A	1.0	12/07/10 13:23		☐
45	CCV 5				1.0	12/07/10 13:26		☐
46	CCB 5				1.0	12/07/10 13:28		☐
47	MA0J7B	G0L070000	0341211	2A	1.0	12/07/10 13:39		☐
48	MA0J7C	G0L070000	0341211	2A	1.0	12/07/10 13:42		☐

Method: 6020 (SOP: SAC-MT-001) Instrument: M02 Reported: 12/07/10 14:26:16

File ID: 101207A2 **Analyst: hargraves**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
49	MA0J7L	G0L070000	0341211	2A	1.0	12/07/10 13:44		☐
50	MAQQ1	G0L020446-3	0341211	2A	1.0	12/07/10 13:47		☐
51	MAQQ1P5	G0L020446	0341211		5.0	12/07/10 13:49		☐
52	MAQQ1Z	G0L020446-3	0341211		1.0	12/07/10 13:52		☐
53	MAQQ4	G0L020446-4	0341211	2A	1.0	12/07/10 13:55		☐
54	MAQRA	G0L020446-7	0341211	2A	1.0	12/07/10 13:57		☐
55	MAQRH	G0L020446-10	0341211	2A	1.0	12/07/10 14:00		☐
56	CCV 6				1.0	12/07/10 14:02		☐
57	CCB 6				1.0	12/07/10 14:05		☐

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M02 (M02) Reported: 12/07/10 14:26:16

File ID: 101207A2 **Analyst:** hargraves

#	Sample ID	Analyzed Date	Germanium	Q
1	Rinse 2X	12/07/10 09:12	95.6	☐
2	Blank	12/07/10 09:15	100.0	☑
3	Standard1	12/07/10 09:18	99.6	☑
4	ICV	12/07/10 09:20	99.1	☑
5	ICV	12/07/10 09:25	99.9	☑
6	ICB	12/07/10 10:24	103.4	☑
7	LLSTD1	12/07/10 10:26	105.9	☑
8	LLSTD2	12/07/10 10:29	106.7	☑
9	ICSA	12/07/10 10:32	91.2	☑
10	ICSAB	12/07/10 10:34	97.1	☑
11	Rinse	12/07/10 11:11	126.2	☑
12	MARD8B	12/07/10 11:17	122.5	☑
13	MARD8C	12/07/10 11:20	114.4	☑
14	MARD8L	12/07/10 11:22	103.9	☑
15	CCV 1	12/07/10 11:25	119.3	☑
16	CCB 1	12/07/10 11:50	133.6	☐
19	CCV 2	12/07/10 12:03	102.5	☑
20	CCB 2	12/07/10 12:06	100.8	☑
21	LLSTD1	12/07/10 12:08	103.8	☑
22	MAPEVB	12/07/10 12:23	94.3	☑
23	MAPEVC	12/07/10 12:26	87.2	☑
24	MAPE7L	12/07/10 12:28	81.7	☑
25	MAA80	12/07/10 12:31	79.5	☑
26	MAA80P5	12/07/10 12:34	96.1	☐
27	MAA80Z	12/07/10 12:36	82.6	☑
28	MAA81	12/07/10 12:39	80.7	☑
29	MAKDV	12/07/10 12:41	85.3	☑
30	MAKD2	12/07/10 12:44	86.8	☑
31	CCV 3	12/07/10 12:46	94.8	☑
32	CCB 3	12/07/10 12:49	99.0	☑
33	CCV 4	12/07/10 12:55	96.7	☑
34	CCB 4	12/07/10 12:57	103.2	☑
35	MARD8B	12/07/10 13:00	97.4	☑
36	MARD8C	12/07/10 13:02	86.2	☑
37	MARD8L	12/07/10 13:05	81.1	☑
38	MAWLKB	12/07/10 13:08	79.0	☑
39	MAWLKC	12/07/10 13:10	80.8	☑
40	MAWLKL	12/07/10 13:13	79.6	☑
41	MAML1	12/07/10 13:15	80.0	☑
42	MAML1P5	12/07/10 13:18	90.0	☐
43	MAML1Z	12/07/10 13:21	77.6	☑
44	MAML6	12/07/10 13:23	78.6	☑
45	CCV 5	12/07/10 13:26	91.9	☑
46	CCB 5	12/07/10 13:28	95.0	☑
47	MA0J7B	12/07/10 13:39	91.8	☑
48	MA0J7C	12/07/10 13:42	82.1	☑

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M02 (M02) Reported: 12/07/10 14:26:16

File ID: **101207A2** **Analyst: hargraves**

#	Sample ID	Analyzed Date	Germanium	Q
49	MA0J7L	12/07/10 13:44	80.6	☑
50	MAQQ1	12/07/10 13:47	79.0	☑
51	MAQQ1P5	12/07/10 13:49	86.1	☐
52	MAQQ1Z	12/07/10 13:52	79.3	☑
53	MAQQ4	12/07/10 13:55	77.4	☑
54	MAQRA	12/07/10 13:57	80.6	☑
55	MAQRH	12/07/10 14:00	85.8	☑
56	CCV 6	12/07/10 14:02	93.4	☑
57	CCB 6	12/07/10 14:05	97.2	☑

Quantitative Method Report

File Name: 0006020-SH.mth
File Path: E:\elandata\Method\0006020-SH.mth

Timing Parameters

Sweeps/Reading:	50
Readings/Replicate:	1
Number of Replicates:	3
Tuning File:	default.tun
Optimization File:	default.dac
QC Enabled:	Yes
Settling Time:	Normal

Analyte	Mass	Scan Mode	MCA Channels	Dwell Time	Integration Time
Al	26.982	Peak Hopping	1	14.0 ms	700 ms
Ca	43.956	Peak Hopping	1	14.0 ms	700 ms
Mn	54.938	Peak Hopping	1	14.0 ms	700 ms
As	74.922	Peak Hopping	1	20.0 ms	1000 ms
Ge-1	71.922	Peak Hopping	1	14.0 ms	700 ms

Signal Processing

Detector Mode:	Dual
Measurement Units:	Counts
AutoLens:	On
Spectral Peak Processing:	Average
Signal Profile Processing:	Average
Blank Subtraction:	After Internal Standard
Baseline Readings:	0
Smoothing:	Yes, Factor 5

Equations

Analyte	Mass	Corrections
As	74.922	-3.1278 * Se 77 + 1.0177 * Se 78

Calibration Information

Analyte	Mass	Curve Type	Sample Units	Std Units	Std 1	Std 2	Std 3	Std 4
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			
Mn	54.938	Linear Thru Zero	ug/L	ug/L	100			
As	74.922	Linear Thru Zero	ug/L	ug/L	100			
Ge-1	71.922	Linear Thru Zero	ug/L	ug/L				

TAL-W. SACRMENTO – Perkin Elmer Elan 6000 ICPMS, M02 – Methods 6020, 200.8

AIR TOX Standards - 4 % HNO3, 0.5 % HCl

Standards for run:

Tuning standard: 4075-25B

Internal standard: 4075-22C

Blank, CCBs: 3185-42D

Standard 1, CCVs: 4075-21E

ICV: 4075-20D

ICSA: 4075-27B

ICSAB: 4075-27C

File Number: 101207A2

Instrument Tuning Report

File Name: default.tun

Sample Information

Sample Date/Time: Tuesday, December 07, 2010 06:49:13

Sample ID: TUNE SHARGRAVE

Analyte	Exact Mass	Meas. Mass	Mass DAC	Meas. Pk. Width	Res. DAC	Custom Res.
Li	7.016	7.027	1580	0.738	2040	
Be	9.012	9.029	2080	0.700	2035	
Mg	23.985	23.979	5728	0.726	2003	
Co	58.933	58.878	14249	0.724	1958	
In	114.904	114.829	27899	0.733	1937	
Ce	139.905	139.929	33978	0.729	1985	
Tl	204.975	204.979	49692	0.727	2189	
Pb	207.977	207.979	50425	0.723	2210	
U	238.050	238.028	57638	0.740	2360	

Elan 6000 Instrument Optomization Report

Path e:\elandata\Optimize
File Name e:\elandata\Optimize\default.dac

Sample Information

Sample Date/Time: Tuesday, December 07, 2010 07:34:13
Sample ID: DAILY SHARGRAVE

Parameter Settings

Nebulizer Gas Flow	0.92
Lens Voltage	9.00
ICP RF Power	1100.00
Analog Stage Voltage	-2000.00
Pulse Stage Voltage	1350.00
Discriminator Threshold	70.00
AC Rod Offset	-7.00
Service DAC 1	60.00
Quadrupole Rod Offset	0.00

AutoLens Calibration

Date:	06:53:04 Tue 07-Dec-10
Sample Filename:	AUTOLENS SHARGRAVE.003
Dataset Pathname:	e:\elandata\Dataset\101207a2\
Lens Voltage Start:	5.50
Lens Voltage End:	10.00
Lens Voltage Step:	0.25
Slope:	0.02126968
Intercept:	6.53696030

Analyte	Mass	Optimum Voltage	Maximum Intensity	# Points
Be	9.010	6.8	3281.1	19
Co	58.935	7.8	86613.6	19
In	114.903	9.0	328775.0	19

Dual Detector Calibration

Date:	08:01:56 Tue 07-Dec-10
Sample Filename:	DAILY SHARGRAVE.1097
Dataset Pathname:	dual detector calibration\
Points Acquired:	37
Lens Vol Start:	-3.00
Lens Vol End:	15.00
Lens Vol Step:	0.50

Analyte	Mass	Gain	N(max)
Li	6.015	10129.15	1235998078.193
Li	7.016	9449.89	1324842000.392
Be	9.012	8857.80	1413399228.860
B	11.009	9146.06	1368852249.810

Na	22.990	9118.55	1372981536.992
Mg	23.985	8534.23	1466986957.713
Mg	24.986	8369.25	1495905758.665
Al	26.982	7911.93	1582369824.835
Si	27.977	8973.22	1395219571.285
P	30.994	7287.08	1718055165.115
K	38.964	7100.33	1763243847.627
Ca	42.959		
Ca	43.956	6971.61	1795798956.472
Sc	44.956	7080.85	1768093466.146
V	50.944	6876.33	1820682362.555
Cr	51.941	6628.40	1888781365.139
Fe	53.940	6525.67	1918515148.090
Mn	54.938	6554.76	1910002204.770
Fe	56.935	6424.60	1948697279.431
Co	58.933	6269.19	1997004380.979
Ni	59.933	6081.55	2058620450.330
Cu	62.930	5973.72	2095780633.374
Cu	64.928	5888.17	2126231105.985
Zn	67.925	5952.75	2103161748.568
Ge	71.922	6127.47	2043191900.987
As	74.922	6124.98	2044023708.276
Se	77.917	6122.66	2044797442.453
Br	78.918		
Se	81.917	6050.71	2069114669.712
Sr	87.906		
Mo	96.906	6128.33	2042906515.828
Ag	106.905	5534.60	2262061270.648
Ag	108.905	5536.88	2261130679.220
Cd	110.904	5626.11	2225268192.020
Cd	113.904	5627.50	2224719836.750
In	114.904	5658.70	2212451551.812
Sn	117.902	5649.45	2216076556.491
Sb	120.904	5651.19	2215394633.559
Ba	134.906	5526.61	2265330490.437
Ho	164.930		
Tm	168.934	5351.68	2339377359.067
Tl	204.975	5104.08	2452862601.143
Pb	207.977	5100.71	2454483234.194
U	238.050	5062.74	2472892833.787

Daily Performance Report

Sample ID: DAILY SHARGRAVE
Sample Date/Time: Tuesday, December 07, 2010 07:34:13
Sample Description:
Sample File:
Method File: E:\elandata\Method\000daily.mth
Dataset File: e:\elandata\dataset\101207a2\DAILY SHARGRAVE.006
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: e:\elandata\Optimize\default.dac
Number of Replicates: 5
Dual Detector Mode: Dual

Summary

	Analyte	Mass	Net Intens. Mean	Net Intens. RSD
	Mg	24	39582.557	0.225
	Rh	103	227757.567	0.697
	Pb	208	271660.442	0.525
⌈>	Ba	138	316167.621	0.392
⌊	Ba++	69	0.014	2.345
⌈>	Ce	140	407072.164	0.396
⌊	CeO	156	0.033	4.799
	Bkgd	220	2.286	34.233
	Li	7	13654.536	2.149
	Be	9	3772.211	2.677
	Co	59	98556.798	0.485
	In	115	356144.422	0.429
	Tl	205	411132.717	1.234

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: Rinse 2X
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 09:12:39
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\Rinse 2X.007
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 6
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27	Al			378104.740	ug/L	0.000
	44	Ca			3039.059	ug/L	0.000
	55	Mn			6805.315	ug/L	0.000
	75	As			5300.785	ug/L	0.000
>	72	Ge-1			755369.417	ug/L	0.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: Blank
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 09:15:34
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\Blank.008
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27	Al			91619.527	ug/L	
	44	Ca			3216.147	ug/L	
	55	Mn			2860.643	ug/L	
	75	As			5747.158	ug/L	
>	72	Ge-1			790209.635	ug/L	

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: Standard 1
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 09:18:24
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\Standard 1.009
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	27	Al	5100.000000	1.545	14503124.094	ug/L	91619.527
|	44	Ca	5100.000000	1.114	655965.802	ug/L	3216.147
|	55	Mn	100.000000	0.927	704528.576	ug/L	2860.643
|	75	As	100.000000	0.939	96528.759	ug/L	5747.158
⌊>	72	Ge-1			787378.408	ug/L	790209.635

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Al	27	
|	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: ICV
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 09:25:16
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\ICV .011
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 3
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	27	Al	743.588271	0.760	2197458.404	ug/L	91619.527
|	44	Ca	761.281671	0.856	100857.325	ug/L	3216.147
|	55	Mn	77.635827	1.570	548743.825	ug/L	2860.643
|	75	As	81.596677	0.174	79997.895	ug/L	5747.158
⌊>	72	Ge-1			789143.453	ug/L	790209.635

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Al	27	
|	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	99.865

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: ICB
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 10:24:20
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\ICB.012
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27	Al	-4.317916	10.910	82056.718	ug/L	91619.527
	44	Ca	9.068673	2.906	4530.947	ug/L	3216.147
	55	Mn	-0.011123	73.964	2876.317	ug/L	2860.643
	75	As	0.410560	66.541	6334.551	ug/L	5747.158
>	72	Ge-1			817166.369	ug/L	790209.635

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	103.411

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: LLSTD1
Sample Description: LLSTD@10X
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 10:26:59
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\LLSTD1.013
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 71
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27	Al	17.091767	5.323	148354.452	ug/L	91619.527
	44	Ca	52.030498	3.923	10481.959	ug/L	3216.147
	55	Mn	0.715607	3.326	8365.495	ug/L	2860.643
	75	As	1.106023	1.564	7155.287	ug/L	5747.158
>	72	Ge-1			837042.468	ug/L	790209.635

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	105.927

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: LLSTD2
Sample Description: LLSTD@5X
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 10:29:38
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\LLSTD2.014
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 72
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27	Al	66.838139	0.888	300021.708	ug/L	91619.527
	44	Ca	99.835983	2.159	17112.980	ug/L	3216.147
	55	Mn	1.705385	2.700	15863.749	ug/L	2860.643
	75	As	2.237674	8.661	8307.267	ug/L	5747.158
>	72	Ge-1			843216.075	ug/L	790209.635

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	106.708

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: ICSA
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 10:32:16
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\ICSA .015
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 2
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	27	Al	97070.591213	4.249	250931943.094	ug/L	91619.527
|	44	Ca	101021.709241	3.318	11829049.317	ug/L	3216.147
|	55	Mn	6.220860	3.749	42529.990	ug/L	2860.643
|	75	As	1.129956	58.484	6176.103	ug/L	5747.158
⌊>	72	Ge-1			720572.478	ug/L	790209.635

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Al	27	
|	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	91.188

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: ICSAB
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 10:34:53
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\ICSAB.016
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 1
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27	Al	92107.819166	0.457	253685266.589	ug/L	91619.527
	44	Ca	98661.893241	0.553	12306507.364	ug/L	3216.147
	55	Mn	100.843584	1.172	692172.885	ug/L	2860.643
	75	As	105.260552	1.795	98693.864	ug/L	5747.158
>	72	Ge-1			767178.960	ug/L	790209.635

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	97.085

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: Rinse
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 11:11:19
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\Rinse.017
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 6
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌜	27	Al	71.514890	1.236	371606.938	ug/L	91619.527
|	44	Ca	7.342333	15.114	5250.167	ug/L	3216.147
|	55	Mn	0.454851	3.967	7653.936	ug/L	2860.643
|	75	As	0.511864	22.020	7842.901	ug/L	5747.158
⌊>	72	Ge-1			997449.908	ug/L	790209.635

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌜	Al	27	
|	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	126.226

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: MARD8B
Sample Description: G0L020000-286 BLK
Batch ID: 336286
Sample Date/Time: Tuesday, December 07, 2010 11:17:36
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\MARD8B.018
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 100
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27	Al	-24.567215	0.566	26882.704	ug/L	91619.527
	44	Ca	190.055925	2.965	33829.384	ug/L	3216.147
	55	Mn	-0.012615	67.446	3393.571	ug/L	2860.643
	75	As	1.390648	5.953	8590.648	ug/L	5747.158
>	72	Ge-1			967882.665	ug/L	790209.635

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	122.484

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: MARD8C
Sample Description: G0L020000-286 LCS
Batch ID: 336286
Sample Date/Time: Tuesday, December 07, 2010 11:20:11
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\MARD8C.019
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 86
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27	Al	803.970332	1.435	2711679.148	ug/L	91619.527
	44	Ca	1005.777932	1.782	151384.609	ug/L	3216.147
	55	Mn	178.656276	2.761	1441454.789	ug/L	2860.643
	75	As	183.788282	1.809	198059.339	ug/L	5747.158
>	72	Ge-1			903751.385	ug/L	790209.635

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	114.369

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: MARD8L
Sample Description: G0L020000-286 LCSD
Batch ID: 336286
Sample Date/Time: Tuesday, December 07, 2010 11:22:45
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\MARD8L.020
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 87
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27	Al	819.309454	2.328	2508958.618	ug/L	91619.527
	44	Ca	1005.629929	1.870	137539.916	ug/L	3216.147
	55	Mn	182.871238	1.956	1340841.602	ug/L	2860.643
	75	As	187.705790	1.723	183676.615	ug/L	5747.158
>	72	Ge-1			821051.065	ug/L	790209.635

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	103.903

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCV 1
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 11:25:24
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\CCV 1.021
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	27	Al	4704.520412	0.952	16030226.356	ug/L	91619.527
|	44	Ca	4894.713792	1.889	754014.074	ug/L	3216.147
|	55	Mn	97.820745	1.895	825341.729	ug/L	2860.643
|	75	As	101.283227	2.860	116971.805	ug/L	5747.158
⌊>	72	Ge-1			943099.344	ug/L	790209.635

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Al	27	
|	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	119.348

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCB 1
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 11:50:24
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\CCB 1.025
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27	Al	-29.747050	0.051	9698.052	ug/L	91619.527
	44	Ca	-0.348102	144.847	4237.078	ug/L	3216.147
	55	Mn	-0.278783	1.724	1199.113	ug/L	2860.643
	75	As	0.713673	50.514	8548.720	ug/L	5747.158
>	72	Ge-1			1055614.610	ug/L	790209.635

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	133.587

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: BLK RECAL
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 11:50:24
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\CCB 1.025
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌜	27	Al			9698.052	ug/L	
|	44	Ca			4237.078	ug/L	
|	55	Mn			1199.113	ug/L	
|	75	As			8548.720	ug/L	
⌞>	72	Ge-1			1055614.610	ug/L	

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌜	Al	27	
|	Ca	44	
|	Mn	55	
|	As	75	
⌞>	Ge-1	72	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: STD1 RECAL
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 11:25:24
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\CCV 1.021
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	27	Al	5100.000000	0.946	16030226.356	ug/L	9698.052
|	44	Ca	5100.000000	1.889	754014.074	ug/L	4237.078
|	55	Mn	100.000000	1.890	825341.729	ug/L	1199.113
|	75	As	100.000000	2.880	116971.805	ug/L	8548.720
⌊>	72	Ge-1			943099.344	ug/L	1055614.610

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Al	27	
|	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCV 2
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 12:03:37
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\CCV 2.026
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	27	Al	5073.274368	1.561	18282350.692	ug/L	9698.052
|	44	Ca	5042.541562	2.834	854598.565	ug/L	4237.078
|	55	Mn	97.044717	2.854	918128.007	ug/L	1199.113
|	75	As	98.848480	2.433	132670.491	ug/L	8548.720
⌊>	72	Ge-1			1081582.543	ug/L	1055614.610

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Al	27	
|	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	102.460

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCB 2
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 12:06:16
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\CCB 2.027
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27	Al	4.491008	1.942	25689.767	ug/L	9698.052
	44	Ca	3.731183	19.687	4891.549	ug/L	4237.078
	55	Mn	0.048524	10.375	1660.550	ug/L	1199.113
	75	As	-0.051471	507.244	8549.255	ug/L	8548.720
>	72	Ge-1			1063915.140	ug/L	1055614.610

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	100.786

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: LLSTD1
Sample Description: LLSTD@10X
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 12:08:56
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\LLSTD1.028
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 71
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27	Al	50.195283	1.026	193274.699	ug/L	9698.052
	44	Ca	52.996870	1.288	13456.548	ug/L	4237.078
	55	Mn	1.054725	1.337	11346.776	ug/L	1199.113
	75	As	0.488712	44.280	9493.869	ug/L	8548.720
>	72	Ge-1			1095550.560	ug/L	1055614.610

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	103.783

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCV 3
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 12:46:51
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\CCV 3.038
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27	Al	4973.962003	0.360	16599974.270	ug/L	9698.052
	44	Ca	5032.375064	0.442	790139.601	ug/L	4237.078
	55	Mn	98.698521	0.025	865037.932	ug/L	1199.113
	75	As	101.410857	0.718	125857.110	ug/L	8548.720
>	72	Ge-1			1001215.977	ug/L	1055614.610

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	94.847

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCB 3
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 12:49:31
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\CCB 3.039
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌜	27	Al	5.332247	1.164	28157.830	ug/L	9698.052
|	44	Ca	4.915177	17.786	4994.293	ug/L	4237.078
|	55	Mn	0.044176	6.731	1590.199	ug/L	1199.113
|	75	As	0.080988	605.092	8556.678	ug/L	8548.720
⌞>	72	Ge-1			1044768.752	ug/L	1055614.610

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌜	Al	27	
|	Ca	44	
|	Mn	55	
|	As	75	
⌞>	Ge-1	72	98.973

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCV 4
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 12:55:08
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\CCV 4.041
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27	Al	5079.885051	0.820	17282350.653	ug/L	9698.052
	44	Ca	5068.248774	0.360	811193.077	ug/L	4237.078
	55	Mn	99.129489	0.557	885693.990	ug/L	1199.113
	75	As	101.122438	0.560	127965.915	ug/L	8548.720
>	72	Ge-1			1020660.828	ug/L	1055614.610

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	96.689

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCB 4
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 12:57:47
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\CCB 4.042
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27	Al	5.359257	4.783	29449.997	ug/L	9698.052
	44	Ca	3.894593	15.595	5033.990	ug/L	4237.078
	55	Mn	0.047765	24.296	1690.558	ug/L	1199.113
	75	As	-0.296235	173.161	8439.853	ug/L	8548.720
>	72	Ge-1			1089732.021	ug/L	1055614.610

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	103.232

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCV 5
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 13:26:17
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\CCV 5.053
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27	Al	5026.028379	0.533	16256534.086	ug/L	9698.052
	44	Ca	5028.073322	0.481	765124.403	ug/L	4237.078
	55	Mn	98.019486	0.224	832600.681	ug/L	1199.113
	75	As	99.424763	1.224	119746.827	ug/L	8548.720
>	72	Ge-1			970352.462	ug/L	1055614.610

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	91.923

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCB 5
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 13:28:56
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\CCB 5.054
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27	Al	5.007182	3.738	25941.101	ug/L	9698.052
	44	Ca	6.003347	9.073	4964.936	ug/L	4237.078
	55	Mn	0.057063	11.714	1640.212	ug/L	1199.113
	75	As	-0.270393	85.379	7805.398	ug/L	8548.720
>	72	Ge-1			1003171.648	ug/L	1055614.610

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	95.032

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: MA0J7B
Sample Description: G0L070000-211 BLK
Batch ID: 341211
Sample Date/Time: Tuesday, December 07, 2010 13:39:35
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\MA0J7B.055
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 97
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	27	Al	-1.674885	2.255	3493.959	ug/L	9698.052
|	44	Ca	110.990191	4.927	20657.479	ug/L	4237.078
|	55	Mn	0.083276	9.675	1805.256	ug/L	1199.113
|	75	As	0.687294	74.291	8610.453	ug/L	8548.720
⌊>	72	Ge-1			969194.669	ug/L	1055614.610

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Al	27	
|	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	91.813

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: MA0J7C
Sample Description: G0L070000-211 LCS
Batch ID: 341211
Sample Date/Time: Tuesday, December 07, 2010 13:42:11
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\MA0J7C.056
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 92
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27	Al	926.407101	0.821	2683748.672	ug/L	9698.052
	44	Ca	1077.161811	0.516	149178.317	ug/L	4237.078
	55	Mn	188.209408	0.600	1427443.132	ug/L	1199.113
	75	As	189.419141	0.583	197480.009	ug/L	8548.720
>	72	Ge-1			866981.565	ug/L	1055614.610

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	82.131

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: MA0J7L
Sample Description: G0L070000-211 LCSD
Batch ID: 341211
Sample Date/Time: Tuesday, December 07, 2010 13:44:47
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\MA0J7L.057
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 93
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27	Al	898.171425	0.698	2553363.871	ug/L	9698.052
	44	Ca	1044.999717	1.223	142109.429	ug/L	4237.078
	55	Mn	182.846582	1.591	1360658.917	ug/L	1199.113
	75	As	183.219349	2.366	187616.841	ug/L	8548.720
>	72	Ge-1			850778.441	ug/L	1055614.610

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	80.596

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: MAQQ1
Sample Description: G0L020446-3
Batch ID: 341211
Sample Date/Time: Tuesday, December 07, 2010 13:47:22
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\MAQQ1.058
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 21
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌜	27	Al	431.865128	4.633	1206548.619	ug/L	9698.052
|	44	Ca	3079.629883	3.856	403760.491	ug/L	4237.078
|	55	Mn	2366.193740	4.090	17239376.488	ug/L	1199.113
|	75	As	1.659924	35.271	8349.686	ug/L	8548.720
⌞>	72	Ge-1			834032.616	ug/L	1055614.610

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌜	Al	27	
|	Ca	44	
|	Mn	55	
|	As	75	
⌞>	Ge-1	72	79.009

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: MAQQ1P5
Sample Description: G0L020446-3 5X
Batch ID: 341211
Sample Date/Time: Tuesday, December 07, 2010 13:49:58
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\MAQQ1P5.059
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 22
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌜	27	Al	99.580922	3.382	309637.385	ug/L	9698.052
|	44	Ca	667.884495	2.605	98290.667	ug/L	4237.078
|	55	Mn	495.266384	1.950	3933833.577	ug/L	1199.113
|	75	As	0.279839	12.389	7651.759	ug/L	8548.720
⌊>	72	Ge-1			908486.992	ug/L	1055614.610

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌜	Al	27	
|	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	86.062

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: MAQQ1Z
Sample Description: G0L020446-3 PS
Batch ID: 341211
Sample Date/Time: Tuesday, December 07, 2010 13:52:33
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\MAQQ1Z.060
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 23
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27	Al	1332.603957	0.629	3725075.760	ug/L	9698.052
	44	Ca	3896.572711	0.915	512442.241	ug/L	4237.078
	55	Mn	2446.656842	0.203	17911155.102	ug/L	1199.113
	75	As	193.244141	1.123	194433.605	ug/L	8548.720
>	72	Ge-1			837354.485	ug/L	1055614.610

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	79.324

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: MAQQ4
Sample Description: G0L020446-4
Batch ID: 341211
Sample Date/Time: Tuesday, December 07, 2010 13:55:09
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\MAQQ4.061
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 24
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27	Al	315.807342	1.809	867419.502	ug/L	9698.052
	44	Ca	2424.184050	1.658	312413.433	ug/L	4237.078
	55	Mn	53.669916	2.189	384405.713	ug/L	1199.113
	75	As	0.976692	22.182	7544.391	ug/L	8548.720
>	72	Ge-1			817445.987	ug/L	1055614.610

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	77.438

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: MAQRA
Sample Description: G0L020446-7
Batch ID: 341211
Sample Date/Time: Tuesday, December 07, 2010 13:57:44
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\MAQRA.062
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 25
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌜	27	Al	289.345973	2.178	827626.466	ug/L	9698.052
|	44	Ca	2266.541213	1.181	304184.501	ug/L	4237.078
|	55	Mn	637.932498	1.780	4743992.846	ug/L	1199.113
|	75	As	1.018331	10.808	7893.062	ug/L	8548.720
⌞>	72	Ge-1			850632.375	ug/L	1055614.610

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌜	Al	27	
|	Ca	44	
|	Mn	55	
|	As	75	
⌞>	Ge-1	72	80.582

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: MAQRH
Sample Description: G0L020446-10
Batch ID: 341211
Sample Date/Time: Tuesday, December 07, 2010 14:00:19
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\MAQRH.063
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 26
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
⌈	27	Al	277.212526	3.651	844100.611	ug/L	9698.052
|	44	Ca	2907.604665	3.548	414183.930	ug/L	4237.078
|	55	Mn	104.181445	4.047	825218.805	ug/L	1199.113
|	75	As	0.943288	35.316	8318.125	ug/L	8548.720
⌊>	72	Ge-1			905564.390	ug/L	1055614.610

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
⌈	Al	27	
|	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	85.786

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCV 6
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 14:02:57
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\CCV 6.064
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27	Al	5007.314494	1.361	16448305.771	ug/L	9698.052
	44	Ca	5059.087468	1.600	781781.047	ug/L	4237.078
	55	Mn	98.706963	1.953	851439.090	ug/L	1199.113
	75	As	100.323121	1.732	122639.342	ug/L	8548.720
>	72	Ge-1			985652.394	ug/L	1055614.610

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	93.372

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020,200.8 - QUANTITATIVE ANALYSIS REPORT
SOP No. SAC-MT-0001
Analyst: SHargrave

Sample ID: CCB 6
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, December 07, 2010 14:05:37
Method File: E:\elandata\Method\0006020-SH.mth
Dataset File: e:\elandata\dataset\101207a2\CCB 6.065
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	27	Al	4.996164	4.862	26476.632	ug/L	9698.052
	44	Ca	4.589086	23.484	4847.512	ug/L	4237.078
	55	Mn	0.046032	16.648	1576.529	ug/L	1199.113
	75	As	-0.292716	80.800	7954.606	ug/L	8548.720
>	72	Ge-1			1025671.799	ug/L	1055614.610

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Al	27	
	Ca	44	
	Mn	55	
	As	75	
>	Ge-1	72	97.163

TAL West Sac

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) Instrument: M02 Reported: 12/07/10 14:26:16

File ID: 101207A2 **Analyst: hargraves**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	Rinse 2X				2.0	12/07/10 09:12		☐
2	Blank				1.0	12/07/10 09:15		☐
3	Standard1				1.0	12/07/10 09:18		☐
4	ICV				1.0	12/07/10 09:20		☐
5	ICV				1.0	12/07/10 09:25		☐
6	ICB				1.0	12/07/10 10:24		☐
7	LLSTD1				1.0	12/07/10 10:26		☐
8	LLSTD2				1.0	12/07/10 10:29		☐
9	ICSA				1.0	12/07/10 10:32		☐
10	ICSAB				1.0	12/07/10 10:34		☐
11	Rinse				1.0	12/07/10 11:11		☐
12	MARD8B	G0L020000	0336286	2A	1.0	12/07/10 11:17		☐
13	MARD8C	G0L020000	0336286	2A	1.0	12/07/10 11:20		☐
14	MARD8L	G0L020000	0336286	2A	1.0	12/07/10 11:22		☐
15	CCV 1				1.0	12/07/10 11:25		☐
16	CCB 1				1.0	12/07/10 11:50		☐
19	CCV 2				1.0	12/07/10 12:03		☐
20	CCB 2				1.0	12/07/10 12:06		☐
21	LLSTD1				1.0	12/07/10 12:08		☐
22	MAPEVB	G0L010000	0335251	2A	1.0	12/07/10 12:23		☐
23	MAPEVC	G0L010000	0335251	2A	1.0	12/07/10 12:26		☐
24	MAPE7L	G0L010000	0335253	2A	1.0	12/07/10 12:28		☐
25	MAA80	G0K190601-3	0335251	2A	1.0	12/07/10 12:31		☐
26	MAA80P5	G0K190601	0335251		5.0	12/07/10 12:34		☐
27	MAA80Z	G0K190601-3	0335251		1.0	12/07/10 12:36		☐
28	MAA81	G0K190601-4	0335251	2A	1.0	12/07/10 12:39		☐
29	MAKDV	G0K240587-1	0335251	2A	1.0	12/07/10 12:41		☐
30	MAKD2	G0K240587-2	0335251	2A	1.0	12/07/10 12:44		☐
31	CCV 3				1.0	12/07/10 12:46		☐
32	CCB 3				1.0	12/07/10 12:49		☐
33	CCV 4				1.0	12/07/10 12:55		☐
34	CCB 4				1.0	12/07/10 12:57		☐
35	MARD8B	G0L020000	0336286	2A	1.0	12/07/10 13:00		☐
36	MARD8C	G0L020000	0336286	2A	1.0	12/07/10 13:02		☐
37	MARD8L	G0L020000	0336286	2A	1.0	12/07/10 13:05		☐
38	MAWLKB	G0L060000	0340010	2A	1.0	12/07/10 13:08		☐
39	MAWLKC	G0L060000	0340010	2A	1.0	12/07/10 13:10		☐
40	MAWLKL	G0L060000	0340010	2A	1.0	12/07/10 13:13		☐
41	MAML1	G0K300434-2	0340010	2A	1.0	12/07/10 13:15		☐
42	MAML1P5	G0K300434	0340010		5.0	12/07/10 13:18		☐
43	MAML1Z	G0K300434-2	0340010		1.0	12/07/10 13:21		☐
44	MAML6	G0K300434-3	0340010	2A	1.0	12/07/10 13:23		☐
45	CCV 5				1.0	12/07/10 13:26		☐
46	CCB 5				1.0	12/07/10 13:28		☐
47	MA0J7B	G0L070000	0341211	2A	1.0	12/07/10 13:39		☐
48	MA0J7C	G0L070000	0341211	2A	1.0	12/07/10 13:42		☐

TAL West Sac

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) Instrument: M02 Reported: 12/07/10 14:26:16

File ID: **101207A2** **Analyst: hargraves**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
49	MA0J7L	G0L070000	0341211	2A	1.0	12/07/10 13:44		☐
50	MAQQ1	G0L020446-3	0341211	2A	1.0	12/07/10 13:47		☐
51	MAQQ1P5	G0L020446	0341211		5.0	12/07/10 13:49		☐
52	MAQQ1Z	G0L020446-3	0341211		1.0	12/07/10 13:52		☐
53	MAQQ4	G0L020446-4	0341211	2A	1.0	12/07/10 13:55		☐
54	MAQRA	G0L020446-7	0341211	2A	1.0	12/07/10 13:57		☐
55	MAQRH	G0L020446-10	0341211	2A	1.0	12/07/10 14:00		☐
56	CCV 6				1.0	12/07/10 14:02		☐
57	CCB 6				1.0	12/07/10 14:05		☐

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) | M02 (M02) | Reported: 12/07/10 14:26:16

File ID: 101207A2 **Analyst:** hargraves

#	Sample ID	Analyzed Date	Germanium	Q
1	Rinse 2X	12/07/10 09:12	95.6	☐
2	Blank	12/07/10 09:15	100.0	☑
3	Standard1	12/07/10 09:18	99.6	☑
4	ICV	12/07/10 09:20	99.1	☑
5	ICV	12/07/10 09:25	99.9	☑
6	ICB	12/07/10 10:24	103.4	☑
7	LLSTD1	12/07/10 10:26	105.9	☑
8	LLSTD2	12/07/10 10:29	106.7	☑
9	ICSA	12/07/10 10:32	91.2	☑
10	ICSAB	12/07/10 10:34	97.1	☑
11	Rinse	12/07/10 11:11	126.2	☑
12	MARD8B	12/07/10 11:17	122.5	☑
13	MARD8C	12/07/10 11:20	114.4	☑
14	MARD8L	12/07/10 11:22	103.9	☑
15	CCV 1	12/07/10 11:25	119.3	☑
16	CCB 1	12/07/10 11:50	133.6	☐
19	CCV 2	12/07/10 12:03	102.5	☑
20	CCB 2	12/07/10 12:06	100.8	☑
21	LLSTD1	12/07/10 12:08	103.8	☑
22	MAPEVB	12/07/10 12:23	94.3	☑
23	MAPEVC	12/07/10 12:26	87.2	☑
24	MAPE7L	12/07/10 12:28	81.7	☑
25	MAA80	12/07/10 12:31	79.5	☑
26	MAA80P5	12/07/10 12:34	96.1	☐
27	MAA80Z	12/07/10 12:36	82.6	☑
28	MAA81	12/07/10 12:39	80.7	☑
29	MAKDV	12/07/10 12:41	85.3	☑
30	MAKD2	12/07/10 12:44	86.8	☑
31	CCV 3	12/07/10 12:46	94.8	☑
32	CCB 3	12/07/10 12:49	99.0	☑
33	CCV 4	12/07/10 12:55	96.7	☑
34	CCB 4	12/07/10 12:57	103.2	☑
35	MARD8B	12/07/10 13:00	97.4	☑
36	MARD8C	12/07/10 13:02	86.2	☑
37	MARD8L	12/07/10 13:05	81.1	☑
38	MAWLKB	12/07/10 13:08	79.0	☑
39	MAWLKC	12/07/10 13:10	80.8	☑
40	MAWLKL	12/07/10 13:13	79.6	☑
41	MAML1	12/07/10 13:15	80.0	☑
42	MAML1P5	12/07/10 13:18	90.0	☐
43	MAML1Z	12/07/10 13:21	77.6	☑
44	MAML6	12/07/10 13:23	78.6	☑
45	CCV 5	12/07/10 13:26	91.9	☑
46	CCB 5	12/07/10 13:28	95.0	☑
47	MA0J7B	12/07/10 13:39	91.8	☑
48	MA0J7C	12/07/10 13:42	82.1	☑

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M02 (M02) Reported: 12/07/10 14:26:16

File ID: 101207A2 **Analyst: hargraves**

#	Sample ID	Analyzed Date	Germanium	Q
49	MA0J7L	12/07/10 13:44	80.6	☑
50	MAQQ1	12/07/10 13:47	79.0	☑
51	MAQQ1P5	12/07/10 13:49	86.1	☐
52	MAQQ1Z	12/07/10 13:52	79.3	☑
53	MAQQ4	12/07/10 13:55	77.4	☑
54	MAQRA	12/07/10 13:57	80.6	☑
55	MAQRH	12/07/10 14:00	85.8	☑
56	CCV 6	12/07/10 14:02	93.4	☑
57	CCB 6	12/07/10 14:05	97.2	☑

TAL West Sac

CALIBRATION CHECK SUMMARY

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Method: 6020 **Instrument: M02** **Batch: 101207A2**

Sample ID	Type	File - Sequence	Analyzed Date	Q
ICV	ICV	101207A2, 4	12/07/2010 09:20:59	☐
ICV	ICV	101207A2, 5	12/07/2010 09:25:16	☐
ICB	ICB	101207A2, 6	12/07/2010 10:24:20	☐
ICSA	ICSA	101207A2, 9	12/07/2010 10:32:16	☐
ICSAB	ICSAB	101207A2, 10	12/07/2010 10:34:53	☐
CCV 1	CCV	101207A2, 15	12/07/2010 11:25:24	☐
CCB 1	CCB	101207A2, 16	12/07/2010 11:50:24	☐
CCV 2	CCV	101207A2, 19	12/07/2010 12:03:37	☐
CCB 2	CCB	101207A2, 20	12/07/2010 12:06:16	☐
CCV 3	CCV	101207A2, 31	12/07/2010 12:46:51	☐
CCB 3	CCB	101207A2, 32	12/07/2010 12:49:31	☐
CCV 4	CCV	101207A2, 33	12/07/2010 12:55:08	☐
CCB 4	CCB	101207A2, 34	12/07/2010 12:57:47	☐
CCV 5	CCV	101207A2, 45	12/07/2010 13:26:17	☐
CCB 5	CCB	101207A2, 46	12/07/2010 13:28:56	☐
CCV 6	CCV	101207A2, 56	12/07/2010 14:02:57	☐
CCB 6	CCB	101207A2, 57	12/07/2010 14:05:37	☐

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Department: 120 (Metals) Source: MetEdit

Sample: **ICV (ICV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101207A2 # 4 Method 6020_
Acquired: 12/07/2010 09:20:59 M02
Calibrated: 12/07/2010 09:15:34 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7429-90-5	**Aluminum**	27	2727202	938.26	800.00	117	
7439-96-5	**Manganese**	55	564887	80.568	80.000	101	
7440-38-2	**Arsenic**	75	79894	82.186	80.000	103	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	**Germanium**	72	783241		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Department: 120 (Metals) Source: MetEdit

Sample: **ICV (ICV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101207A2 # 5 Method 6020_
Acquired: 12/07/2010 09:25:16 M02
Calibrated: 12/07/2010 09:15:34 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7429-90-5	Aluminum	27	2197458	743.59	800.00	92.9	
7439-96-5	Manganese	55	548744	77.636	80.000	97.0	
7440-38-2	Arsenic	75	79998	81.597	80.000	102	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	Germanium	72	789143		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Department: 120 (Metals) Source: MetEdit

Sample: ICB Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262
File: 101207A2 #6 Method 6020_
Acquired: 12/07/2010 10:24:20 M02
Calibrated: 12/07/2010 09:15:34 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7429-90-5	Aluminum	27	82057	-4.3179	50.0	2.1	0.0	
7439-96-5	Manganese	55	2876	-0.01112	1.0	0.083	0.0	
7440-38-2	Arsenic	75	6335	0.41056	2.0	0.50	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	Germanium	72	817166		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Department: 120 (Metals) Source: MetEdit

Sample: **ICSA** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02**
File: 101207A2 # 9
Acquired: 12/07/2010 10:32:16
Calibrated: 12/07/2010 10:26:59

Channel 262
Method 6020_
M02

Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7429-90-5	**Aluminum**	27	50931943	97071	100000	97.1	☑
7439-96-5	**Manganese**	55	42530	6.2209		*	
7440-38-2	**Arsenic**	75	6176	1.1300		*	☑

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	**Germanium**	72	720572		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Department: 120 (Metals) Source: MetEdit

Sample: **ICSAB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101207A2 # 10 Method 6020_
Acquired: 12/07/2010 10:34:53 M02
Calibrated: 12/07/2010 10:26:59 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7429-90-5	Aluminum	27	53685267	92108	100100	92.0	☑
7439-96-5	Manganese	55	692173	100.84	100.00	101	☑
7440-38-2	Arsenic	75	98694	105.26	100.00	105	☑

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	Germanium	72	767179		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 1 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101207A2 # 15 Method 6020_
Acquired: 12/07/2010 11:25:24 M02
Calibrated: 12/07/2010 10:26:59 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7429-90-5	**Aluminum**	27	16030226	4704.5	5100.0	92.2	
7439-96-5	**Manganese**	55	825342	97.821	100.00	97.8	
7440-38-2	**Arsenic**	75	116972	101.28	100.00	101	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	**Germanium**	72	943099		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 1** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101207A2 # 16 Method 6020_
Acquired: 12/07/2010 11:50:24 M02
Calibrated: 12/07/2010 11:25:24 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7429-90-5	**Aluminum**	27	9698	-29.747	50.0	2.1	0.0	
7439-96-5	**Manganese**	55	1199	-0.27878	1.0	0.083	0.0	
7440-38-2	**Arsenic**	75	8549	0.71367	2.0	0.50	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	**Germanium**	72	1055615		☐

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 2 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101207A2 # 19 Method 6020_
Acquired: 12/07/2010 12:03:37 M02
Calibrated: 12/07/2010 11:50:24 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7429-90-5	**Aluminum**	27	18282351	5073.3	5100.0	99.5	
7439-96-5	**Manganese**	55	918128	97.045	100.00	97.0	
7440-38-2	**Arsenic**	75	132670	98.848	100.00	98.8	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	**Germanium**	72	1081583		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 2** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101207A2 # 20 Method 6020_
Acquired: 12/07/2010 12:06:16 M02
Calibrated: 12/07/2010 11:50:24 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7429-90-5	Aluminum	27	25690	4.4910	50.0	2.1	0.0	
7439-96-5	Manganese	55	1661	0.04852	1.0	0.083	0.0	
7440-38-2	Arsenic	75	8549	-0.05147	2.0	0.50	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	Germanium	72	1063915		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 3 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101207A2 # 31 Method 6020_
Acquired: 12/07/2010 12:46:51 M02
Calibrated: 12/07/2010 11:50:24 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7429-90-5	Aluminum	27	16599974	4974.0	5100.0	97.5	
7439-96-5	Manganese	55	865038	98.699	100.00	98.7	
7440-38-2	Arsenic	75	125857	101.41	100.00	101	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	Germanium	72	1001216		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 3** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101207A2 # 32 Method 6020_
Acquired: 12/07/2010 12:49:31 M02
Calibrated: 12/07/2010 11:50:24 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7429-90-5	**Aluminum**	27	28158	5.3322	50.0	2.1	0.0	
7439-96-5	**Manganese**	55	1590	0.04418	1.0	0.083	0.0	
7440-38-2	**Arsenic**	75	8557	0.08099	2.0	0.50	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	**Germanium**	72	1044769		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 4 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101207A2 # 33 Method 6020_
Acquired: 12/07/2010 12:55:08 M02
Calibrated: 12/07/2010 11:50:24 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7429-90-5	Aluminum	27	17282351	5079.9	5100.0	99.6	
7439-96-5	Manganese	55	885694	99.129	100.00	99.1	
7440-38-2	Arsenic	75	127966	101.12	100.00	101	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	Germanium	72	1020661		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 4** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101207A2 # 34 Method 6020_
Acquired: 12/07/2010 12:57:47 M02
Calibrated: 12/07/2010 11:50:24 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7429-90-5	**Aluminum**	27	29450	5.3593	50.0	2.1	0.0	
7439-96-5	**Manganese**	55	1691	0.04777	1.0	0.083	0.0	
7440-38-2	**Arsenic**	75	8440	-0.29624	2.0	0.50	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	**Germanium**	72	1089732		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 5 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101207A2 # 45 Method 6020_
Acquired: 12/07/2010 13:26:17 M02
Calibrated: 12/07/2010 11:50:24 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7429-90-5	**Aluminum**	27	16256534	5026.0	5100.0	98.5	
7439-96-5	**Manganese**	55	832601	98.019	100.00	98.0	
7440-38-2	**Arsenic**	75	119747	99.425	100.00	99.4	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	**Germanium**	72	970352		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 5** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101207A2 # 46 Method 6020_
Acquired: 12/07/2010 13:28:56 M02
Calibrated: 12/07/2010 11:50:24 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7429-90-5	Aluminum	27	25941	5.0072	50.0	2.1	0.0	
7439-96-5	Manganese	55	1640	0.05706	1.0	0.083	0.0	
7440-38-2	Arsenic	75	7805	-0.27039	2.0	0.50	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	Germanium	72	1003172		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 6 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101207A2 # 56 Method 6020_
Acquired: 12/07/2010 14:02:57 M02
Calibrated: 12/07/2010 11:50:24 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7429-90-5	**Aluminum**	27	16448306	5007.3	5100.0	98.2	
7439-96-5	**Manganese**	55	851439	98.707	100.00	98.7	
7440-38-2	**Arsenic**	75	122639	100.32	100.00	100	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	**Germanium**	72	985652		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:26:55

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 6** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101207A2 # 57 Method 6020_
Acquired: 12/07/2010 14:05:37 M02
Calibrated: 12/07/2010 11:50:24 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7429-90-5	**Aluminum**	27	26477	4.9962	50.0	2.1	0.0	
7439-96-5	**Manganese**	55	1577	0.04603	1.0	0.083	0.0	
7440-38-2	**Arsenic**	75	7955	-0.29272	2.0	0.50	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	**Germanium**	72			☑

Reviewed by: Date:

TAL West Sac

SERIAL DILUTION

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 12/07/10 14:27:55

Department: 120 (Metals) Source: MetEdit

Sample: **MAQQ1P5** Serial Dilution: **5.00** Sample Dilution: **1.00**

Instrument: **ICPMS M02** Channel 262
File: 101207A2 # 51 Method 6020_
Acquired: 12/07/2010 13:49:58 M02 Matrix: AIR
Calibrated: 12/07/2010 11:50:24 Units: ug/L

CASN	Analyte Name	M/S	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7429-90-5	Aluminum	27	309637	497.90	431.87	15.3		*	
7439-96-5	Manganese	55	3933834	2476.3	2366.2	4.65	0.14	4.7	☑
7440-38-2	Arsenic	75	7652	1.3992	1.6599	15.7	0.41	NC	☑

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	Germanium	72	908487		☐

* 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) M02 Reported: 12/07/10 14:28:03

Department: 120 (Metals) Source: MetEdit

Sample: **MAQQ1Z** Spike Dilution: **1.00** Sample Dilution: **1.00**

Instrument: **ICPMS M02** Channel 262
File: 101207A2 # 52 Method 6020_
Acquired: 12/07/2010 13:52:33 M02 Matrix: AIR
Calibrated: 12/07/2010 11:50:24 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	Sample	%Rec.	Spike	Flag	Q
7429-90-5	Aluminum	27	3725076	1332.6	431.87	90.1	1000		☑
7439-96-5	Manganese	55	17911155	2446.7	2366.2	40.2	200	*	☐
7440-38-2	Arsenic	75	194434	193.24	1.6599	95.8	200		☑

CASN	ISTD Name	M/S	Area	Amount	Q
7440-56-4	Germanium	72	837354		☑

Reviewed by: Date:

Sample Preparation Log

TestAmerica - West Sacramento
Metals - Air Toxics - Preparation Log

Date: 7-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
G0L070000	211	MA0J7B	2A	NA	NA	NA	100 mL	341211	1.2
G0L070000	211	MA0J7C	2A	NA	NA	NA	100 mL	341211	1.2
G0L070000	211	MA0J7L	2A	NA	NA	NA	100 mL	341211	1.2
G0L020446	3	MAQQ1	2A	9 inches	0.75 inches	0.75 inches	100 mL	341211	1.2
G0L020446	4	MAQQ4	2A	9 inches	0.75 inches	0.75 inches	100 mL	341211	1.2
G0L020446	7	MAQRA	2A	9 inches	0.75 inches	0.75 inches	100 mL	341211	1.2
G0L020446	10	MAQRH	2A	9 inches	0.75 inches	0.75 inches	100 mL	341211	1.2

For the cassette filter digest the whole filter is used.
For 1" filter: factor = 9 (9/1).
For 0.75" filter factor = 12 (9/0.75).

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Metals Spiking Documentation Form

Lot #(s): 606020446

Batch Number: 034121 1
EPA Analytical Method ID: 6020
Spiked Date: 12/7/10

MS Sample(s): NA
EPA Prep Method ID: MS-ID-0010
Hot Plate Microwave ID: Hot II

Analyst Initial/Date: JZ 12/07/10
Witness Initial/Date: TP 12/7/10
Hot Plate Temp Initial: 93°C Final: 93°C

Correct Folder ID Witness: NA
Digestion Cup Lot #: 1008257
Filter Paper Lot #: 390428
Thermometer ID: BT09
Fin Vol Cup Lot: 100811

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 12/7/10
✓	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	200 µl	NA	8/31/11
		Ag,Tl	25				
✓	TACA-2 5% HNO_3	Mo, Sb, Sn, Ti	100	3189-6-6	200 µl	NA	8/31/11
	Misc. Elements						JZ 12/7/10

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	4028-32-1		1:1 HCl	In-House	JZ 12/7/10

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.

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West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 634121 Test: 6020

Prep Date: 12/7/10 Holding Times: 5/29/11 5/30/11 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: TP Date: 12/7/10

2nd Level Reviewer: SH Date: 12/9/10

Comments:

AIR, TSP-
Total Suspended
Particulates

Raw Data Package

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento

Air Toxics Laboratory

PARTICULATE ANALYSIS

LEVEL 1 & 2 REVIEW CHECKLIST

LAB NUMBERS: 60L020446 (3,4,7,10) Batch #: 0341297

ANALYSIS: (circle) TSP/PM10 or METHOD 5

DATE: 12/07/10 **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 12/07/10

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: SI 12/7/10

Comments: Dessicator 2A

RQC050 TestAmerica Laboratories, Inc. Run Date: 12/07/10
WET CHEM BATCHSHEET Time: 14:26:46

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 #: **0341297** INITIALS: DATA ENTRY:
PREP DATE: 12/02/10 11:15 PREP JZ INITIALS JZ
COMP DATE: 12/06/10 18:20 ANAL JZ DATE 12/07/10
USER: PHOMSOPT

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
MAQQ1-1-AA	G-0L020446-003	XX S 88 AO 3W	M	12/07/10	UW-11292010B
MAQQ4-1-AA	G-0L020446-004	XX S 88 AO 3W	M	12/07/10	DW-11292010B
MAQRA-1-AA	G-0L020446-007	XX S 88 AO 3W	M	12/07/10	UW-11302010B
MAQRH-1-AA	G-0L020446-010	XX S 88 AO 3W	M	12/07/10	DW-11302010B

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	4.9999 110110skv1123	4.9998 110110skv1918	4.9998 120610jz1038	5.0000 120610jz1802						
MAK04 112910jz1010	tron111010-66	4.5511 110110skv1123	4.5507 110110skv1919	4.5630 113010jz1240	4.5629 120110jz1056					0.0122	
MAQQ1 120210jz1115	tron111010-67	4.5565 110110skv1124	4.5564 110110skv1919	4.5996 120610jz1040	4.5999 120610jz1808					0.0435	✓
MAQRH 120210jz1115	tron111010-68	4.5551 110110skv1124	4.5546 110110skv1919	4.5859 120610jz1042	4.5861 120610jz1817					0.0315	✓
MAQRA 120210jz1115	tron111010-69	4.5467 110110skv1125	4.5464 110110skv1920	4.5832 120610jz1045	4.5834 120610jz1812					0.0370	✓
MAQQ4 120210jz1115	tron111010-70	4.5572 110110skv1125	4.5571 110110skv1920	4.5841 120610jz1047	4.5840 120610jz1819					0.0269	✓
MAML6 113010jz1230	tron111010-71	4.5539 110110skv1126	4.5539 110110skv1921	4.6496 120210jz1036	4.6498 120210jz1732					0.0959	
MAML1 113010jz1230	tron111010-72	4.5504 110110skv1126	4.5500 110110skv1921	4.5713 120210jz1037	4.5714 120210jz1733					0.0214	
MAK09 112910jz1010	tron111010-73	4.5577 110110skv1127	4.5572 110110skv1922	4.6235 113010jz1242	4.6227 120110jz1057	4.6222 120210jz1023				0.0650	
	tron111010-74	4.5735 110110skv1127	4.5730 110110skv1922							NC	
MAK08 112910jz1010	tron111010-75	4.4545 110110skv1128	4.4543 110110skv1922	4.5166 113010jz1243	4.5163 120110jz1058					0.0620	
	5g wt	5.0001 110110skv1128	5.0000 110110skv1923	4.9995 113010jz1245	4.9996 120110jz1100	4.9996 120210jz1031				-0.0004	
	5g wt	5.0001 110110skv1128	5.0000 110110skv1923	4.9996 120210jz1039	4.9998 120210jz1735					-0.0002	
	5g wt	5.0001 110110skv1128	5.0000 110110skv1923	4.9998 120610jz1048	4.9998 120610jz1820					-0.0002	

PDE115

TestAmerica Laboratories, Inc.
Inorganics Batch Review
QC Batch **0341297**

Date 12/07/2010
Time 13:28:19

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.
MAQQ1-1-AA	0.0435	g	0.0005	12/02-12/07/10	.00	N		0.0435	0.0005	1.00
MAQQ4-1-AA	0.0269	g	0.0005	12/02-12/07/10	.00	N		0.0269	0.0005	1.00
MAQRA-1-AA	0.0370	g	0.0005	12/02-12/07/10	.00	N		0.0370	0.0005	1.00
MAQRH-1-AA	0.0315	g	0.0005	12/02-12/07/10	.00	N		0.0315	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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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	0.1996	0.1995	0.2005	10.000	10.0002	~~10.1~~ ECF 10/21/10 9.9000	10.100	10/21/10	ECF	QA-011	P
0.2000	0.2003	0.1995	0.2005	10.000	10.0001	9.9000	10.100	10/22/10	ECF	QA-011	P
0.2000	0.2001	0.1995	0.2005	10.0	10.0005	9.9000	10.0100	10/24/10	ECF	QA-011	P
0.2000	0.2002	0.1995	0.2005	10.000	10.0011	9.9000	10.0100	10/25/10	ECF	QA-011	P
0.2000	0.2000	0.1995	0.2005	10.0	10.0004	9.9000	10.0100	10/26/10	ECF	QA-011	P
0.2000	0.2001	0.1995	0.2005	10.0	9.9997	9.9000	10.0100	10/27/10	ECF	QA-011	P
0.2000	0.1998	0.1995	0.2005	10.0	10.0000	9.9000	10.0100	10/28/10	ECF	QA-011	P
0.2000	0.1999	0.1995	0.2005	10.0	9.9999	9.9000	10.0100	10/29/10	ECF	QA-011	P
0.2000	0.1996	0.1995	0.2005	10.0	9.9993	9.9000	10.0100	11/1/10	ECF	QA-011	P
0.2000	0.1996	0.1995	0.2005	10.0	9.9999	9.9000	10.0100	11/2/10	ECF	QA-011	P
0.2000	0.2001	0.1995	0.2005	10.0	10.0004	9.9000	10.0100	11/3/10	ECF	QA-011	P
0.2000	0.2000	0.1995	0.2005	10.0	10.0004	9.9000	10.0100	11/4/10	ECF	QA-011	P
0.2000	0.1999	0.1995	0.2005	10.0	10.0004	9.9000	10.0100	11/5/10	ECF	QA-011	P
0.2000	0.1999	0.1995	0.2005	10.0	10.0000	9.9000	10.0100	11/8/10	ECF	QA-011	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.	

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)	Upper (g)	Working WT Denomination (g)	OBSERVED WEIGHT (g)	Acceptance limits*2 Lower (g)	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	SN	QA-11	P
0.2000	0.2000	0.1995	0.2005	10.0000	9.9997	9.9000	10.1000	12/3/10	SN	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

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.	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento
Air Toxics
Desiccator Humidity/Temperature Logbook

Desiccator #		1			2			3			4			5			6			7			Amb	
Date	Init	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH
10/27/10	ECf	70	33	–	71	28	–	72	35	–	71	37	–	71	38	–	73	35	–	72	31	–	73	45
10/28/10	SV	70	33	–	71	28	–	72	36	–	72	41	(1)	71	42	(1)	73	35	–	72	32		73	56
10/29/10	SV	69	33	–	69	28	–	70	37	–	69	28	–	70	28	–	72	35	–	72	31	–	72	43
10/30/10	ECf	68	33	–	68	28	–	70	36	–	68	28	–	69	28	–	70	35	–	70	32	–	70	34
10/31/10	ECf	67	33	–	68	28	–	69	35	–	68	28	–	68	28	–	70	34	–	70	31	–	70	30
11/1/10	ECf	65	34	–	66	29	–	66	36	–	65	29	–	66	29	–	68	34	–	66	31	–	68	40
11/2/10	ECf	65	33	–	66	29	–	67	37	–	65	29	–	66	29	–	68	34	–	66	31	–	68	48
11/3/10	ECf	65	34	–	66	30	–	66	40	–	65	29	–	66	29	–	68	35	–	66	32	–	68	49
11/4/10	ECf	65	34	–	66	32	–	67	41		65	30	–	66	29	–	68	35	–	68	32	–	68	50
11/5/10	ECf	65	34	–	66	34	–	66	42		65	29	–	66	29	–	68	36	–	66	33	–	68	51
11/6/10	ECf	68	33	–	69	36	(1)@11:30 ECf 11/4/10	70	42	(1)	68	29	–	69	29	–	70	37	–	70	32	–	72	49
11/5/10	ECf	69	33	–	69	28	–	70	43	(1)	69	30	–	70	32	–	70	37	–	70	33	–	72	49
18:15(PM) 11/5/10	ECf	72	33	–	72	27	(2)	74	28	–	72	29	–	73	33	–	73	37	–	73	32	–	75	43
11/7/10	SV	69	33	–	70	28	–	71	27	(2)	70	31	–	70	36	–	72	37	–	72	32	–	72	54
11/8/10	ECf	66	34	–	66	29	–	67	28	–	66	32	–	67	35	–	68	36	–	68	33	–	68	~~35~~ 37 ECf 11/8/10

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

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	SV	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	28	—	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	SV	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

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

RDR150 Analytical Results Batch Review/Release 12/07/10
16:16:02

Requested By: VALMORES

Batch	Lot/Sample ID	Analysis Code	W/O#	Group	Message
0341297					Release Requested
0341297					Successfully Released