



THE LEADER IN ENVIRONMENTAL TESTING

May 4, 2010

TestAmerica Project Number: G0D130519

PO/Contract: 2027.01

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

Dear Ms. Arnold,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on April 13, 2010. These samples are associated with your Tronox Henderson 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,

A handwritten signature in black ink, appearing to read "David R. Alltucker".

DAVID R. ALLTUCKER
Project Manager

Table of Contents

TestAmerica West Sacramento Project Number G0D130519

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

WATER, 8290, Dioxins/Furans

Samples: 1, 2

 Sample Data Sheets

 Method Blank Report

 Laboratory QC Reports

Raw Data Package

Case Narrative

TestAmerica West Sacramento Project Number G0D130519

WATER, 8290, Dioxins/Furans

Sample(s): 1, 2

Several analytes in each sample have been qualified with a "Q" flag due to the ion abundance ratios being outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio for these analytes.

There were no other anomalies associated with this project.

TestAmerica Laboratories West Sacramento Certifications/Accreditations

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

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

QC Parameter Definitions

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

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

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

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

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

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

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

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

Sample Summary

TestAmerica West Sacramento Project Number G0D130519

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
LXWV7	1	FB-040710-RZC	4/8/2010 09:00 AM	4/13/2010 08:40 AM
LXWV8	2	EB-040710-RZC	4/8/2010 11:26 AM	4/13/2010 08:40 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.



GOD150519

CHAIN-OF-CUSTODY / Analytical Request Document

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

100 Quail Street, Suite 102
Newport Beach, CA 92660 (949) 260-9293

Additional Comments/Special Instructions:

TestAmerica.com • 800-959-9998 • 972-230-2143

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT	<u>Northgate</u>	PM	<u>DA</u>	LOG #	<u>64216</u>
LOT# (QUANTIMS ID)	<u>G0D130519</u>	QUOTE#	<u>84087</u>	LOCATION	<u>W25A</u>
DATE RECEIVED	<u>4/13/10</u>	TIME RECEIVED	<u>0840</u>	Checked (✓)	<input checked="" type="checkbox"/>
DELIVERED BY	<input checked="" type="checkbox"/> FEDEX	<input type="checkbox"/> ON TRAC	<input type="checkbox"/> CLIENT		
<input type="checkbox"/> GOLDENSTATE	<input type="checkbox"/> UPS	<input type="checkbox"/> GO-GETTERS	<input type="checkbox"/> OTHER		
<input type="checkbox"/> TAL COURIER	<input type="checkbox"/> TAL SF	<input type="checkbox"/> VALLEY LOGISTICS		<input checked="" type="checkbox"/>	
CUSTODY SEAL STATUS	<input checked="" type="checkbox"/> INTACT	<input type="checkbox"/> BROKEN	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>	
CUSTODY SEAL #(S)	<u>662611, Seal</u>				
SHIPPING CONTAINER(S)	<input checked="" type="checkbox"/> TAL	<input type="checkbox"/> CLIENT	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/>	
COC #(S)	<u>02027.01.1905,</u>			<input checked="" type="checkbox"/>	
TEMPERATURE BLANK	Observed: <u>NA</u>	Corrected:			
SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)					
Observed: <u>3.3</u>	Average <u>2</u>	Corrected Average <u>3.2</u>			
LABORATORY THERMOMETER ID:					
IR UNIT: #4 <input type="checkbox"/>	#5 <input checked="" type="checkbox"/>	<input type="checkbox"/> OTHER _____	<input checked="" type="checkbox"/>		
Initials	<u>EV</u>	Date	<u>4/13/10</u>		
=====					
pH MEASURED	<input type="checkbox"/> YES	<input type="checkbox"/> ANOMALY	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>	
LABELED BY.....				<input checked="" type="checkbox"/>	
LABELS CHECKED BY.....				<input checked="" type="checkbox"/>	
PEER REVIEW	<input checked="" type="checkbox"/> NA				
SHORT HOLD TEST NOTIFICATION	SAMPLE RECEIVING			<input checked="" type="checkbox"/>	
	WETCHEM	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>		
	VOA-ENCORES	<input checked="" type="checkbox"/> N/A	<input checked="" type="checkbox"/>		
<input type="checkbox"/> METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL	<input checked="" type="checkbox"/> N/A			<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES	<input type="checkbox"/> N/A			<input checked="" type="checkbox"/>	
<input type="checkbox"/> CLOUSEAU	<input type="checkbox"/> TEMPERATURE EXCEEDED (2 °C – 6 °C) ¹			<input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> WET ICE	<input type="checkbox"/> BLUE ICE	<input type="checkbox"/> GEL PACK	<input type="checkbox"/> NO COOLING AGENTS USED	<input type="checkbox"/> PM NOTIFIED	
Initials	<u>EV</u>	Date	<u>4/13/10</u>		

Notes _____

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

Lot

ID:

G0D130519

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

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

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

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

WATER, 8290, Dioxins/Furans

Northgate Environmental Management, Inc.

Sample ID: FB-040710-RZC

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....:	G0D130519 - 001	Work Order #....:	LXWV71AA	Matrix....:	WATER
Date Sampled....:	04/08/10	Date Received....:	04/13/10	Instrument ID....:	4D5
Prep Date....:	04/19/10	Analysis Date....:	05/01/10		
Prep Batch #:	0123308	Dilution Factor....:	0.97	Units....:	pg/L
Initial Wgt/Vol :	1033.5 mL	Analyst ID....:	Grandfield S. Virginia		

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND		4.9	1.0	0
1,2,3,7,8-PeCDD	ND		24	1.0	0
1,2,3,4,7,8-HxCDD	0.77	J	24	0.1	0.077
1,2,3,6,7,8-HxCDD	0.74	J Q	24	0.1	0.074
1,2,3,7,8,9-HxCDD	0.82	J B	24	0.1	0.082
1,2,3,4,6,7,8-HpCDD	4.2	J Q B	24	0.01	0.042
OCDD	37	J B	49	0.0003	0.011
2,3,7,8-TCDF	0.57	J Q	4.9	0.1	0.057
1,2,3,7,8-PeCDF	0.96	J	24	0.03	0.029
2,3,4,7,8-PeCDF	0.67	J Q B	24	0.3	0.20
1,2,3,4,7,8-HxCDF	1.1	J Q B	24	0.1	0.11
1,2,3,6,7,8-HxCDF	0.96	J B	24	0.1	0.096
2,3,4,6,7,8-HxCDF	1.0	J Q B	24	0.1	0.10
1,2,3,7,8,9-HxCDF	1.0	J Q	24	0.1	0.10
1,2,3,4,6,7,8-HpCDF	2.1	J B	24	0.01	0.021
1,2,3,4,7,8,9-HpCDF	1.5	J B	24	0.01	0.015
OCDF	6.7	J	49	0.0003	0.0020

Total TEQ Concentration 1.0

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	78	40 - 135
13C-1,2,3,7,8-PeCDD	82	40 - 135
13C-1,2,3,6,7,8-HxCDD	85	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	87	40 - 135
13C-OCDD	83	40 - 135
13C-2,3,7,8-TCDF	66	40 - 135
13C-1,2,3,7,8-PeCDF	74	40 - 135
13C-1,2,3,4,7,8-HxCDF	76	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	78	40 - 135

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: FB-040710-RZC

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....:	G0D130519 - 001	Work Order #....:	LXWV71AA	Matrix....:	WATER
Date Sampled....:	04/08/10	Date Received....:	04/13/10	Instrument ID....:	4D5
Prep Date....:	04/19/10	Analysis Date....:	05/01/10		
Prep Batch #:	0123308	Dilution Factor....:	0.97	Units....:	pg/L
Initial Wgt/Vol :	1033.5 mL	Analyst ID....:	Grandfield S. Virginia		

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: FB-040710-RZC

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....:	G0D130519 - 001	Work Order #....:	LXWV71AA	Matrix....:	WATER
Date Sampled....:	04/08/10	Date Received....:	04/13/10	Dilution Factor:	0.97
Prep Date....:	04/19/10	Analysis Date....:	05/01/10		
Prep Batch #:	0123308	Instrument ID....:	4D5		
Initial Wgt/Vol :	1033.5 mL	Analyst ID....:	Grandfield S. Virginia		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		4.9	0.35	pg/L
1,2,3,7,8-PeCDD	ND		24	0.45	pg/L
1,2,3,4,7,8-HxCDD	0.77	J	24	0.40	pg/L
1,2,3,6,7,8-HxCDD	0.74	J Q	24	0.36	pg/L
1,2,3,7,8,9-HxCDD	0.82	J B	24	0.33	pg/L
1,2,3,4,6,7,8-HpCDD	4.2	J Q B	24	0.39	pg/L
OCDD	37	J B	49	0.82	pg/L
2,3,7,8-TCDF	0.57	J Q	4.9	0.36	pg/L
1,2,3,7,8-PeCDF	0.96	J	24	0.32	pg/L
2,3,4,7,8-PeCDF	0.67	J Q B	24	0.34	pg/L
1,2,3,4,7,8-HxCDF	1.1	J Q B	24	0.28	pg/L
1,2,3,6,7,8-HxCDF	0.96	J B	24	0.25	pg/L
2,3,4,6,7,8-HxCDF	1.0	J Q B	24	0.28	pg/L
1,2,3,7,8,9-HxCDF	1.0	J Q	24	0.31	pg/L
1,2,3,4,6,7,8-HpCDF	2.1	J B	24	0.26	pg/L
1,2,3,4,7,8,9-HpCDF	1.5	J B	24	0.34	pg/L
OCDF	6.7	J	49	0.59	pg/L

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	78	40 - 135
13C-1,2,3,7,8-PeCDD	82	40 - 135
13C-1,2,3,6,7,8-HxCDD	85	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	87	40 - 135
13C-OCDD	83	40 - 135
13C-2,3,7,8-TCDF	66	40 - 135
13C-1,2,3,7,8-PeCDF	74	40 - 135
13C-1,2,3,4,7,8-HxCDF	76	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	78	40 - 135

QUALIFIERS

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

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

Northgate Environmental Management, Inc.

Sample ID: EB-040710-RZC

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....:	G0D130519 - 002	Work Order #....:	LXWV81AA	Matrix....:	WATER
Date Sampled....:	04/08/10	Date Received....:	04/13/10	Instrument ID....:	4D5
Prep Date....:	04/19/10	Analysis Date....:	05/01/10		
Prep Batch #:	0123308	Dilution Factor....:	0.97	Units.....:	pg/L
Initial Wgt/Vol :	1033.8 mL	Analyst ID....:	Grandfield S. Virginia		

PARAMETER	RESULT	REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	1.0	4.9	1.0	1.0
1,2,3,7,8-PeCDD	ND	24	1.0	0
1,2,3,4,7,8-HxCDD	ND	24	0.1	0
1,2,3,6,7,8-HxCDD	0.69	J Q	0.1	0.069
1,2,3,7,8,9-HxCDD	0.65	J Q B	0.1	0.065
1,2,3,4,6,7,8-HpCDD	5.5	J B	0.01	0.055
OCDD	53	B	0.0003	0.016
2,3,7,8-TCDF	2.6	J	0.1	0.26
1,2,3,7,8-PeCDF	1.5	J	0.03	0.045
2,3,4,7,8-PeCDF	1.0	J Q B	0.3	0.30
1,2,3,4,7,8-HxCDF	1.8	J Q B	0.1	0.18
1,2,3,6,7,8-HxCDF	1.1	J Q B	0.1	0.11
2,3,4,6,7,8-HxCDF	0.97	J Q B	0.1	0.097
1,2,3,7,8,9-HxCDF	ND	24	0.1	0
1,2,3,4,6,7,8-HpCDF	4.5	J B	0.01	0.045
1,2,3,4,7,8,9-HpCDF	1.1	J Q B	0.01	0.011
OCDF	12	J	0.0003	0.0036

Total TEQ Concentration 2.3

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	68	40 - 135
13C-1,2,3,7,8-PeCDD	70	40 - 135
13C-1,2,3,6,7,8-HxCDD	72	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	75	40 - 135
13C-OCDD	71	40 - 135
13C-2,3,7,8-TCDF	59	40 - 135
13C-1,2,3,7,8-PeCDF	63	40 - 135
13C-1,2,3,4,7,8-HxCDF	65	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	67	40 - 135

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: EB-040710-RZC

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....:	G0D130519 - 002	Work Order #....:	LXWV81AA	Matrix....:	WATER
Date Sampled....:	04/08/10	Date Received....:	04/13/10	Instrument ID....:	4D5
Prep Date....:	04/19/10	Analysis Date....:	05/01/10		
Prep Batch #:	0123308	Dilution Factor....:	0.97	Units....:	pg/L
Initial Wgt/Vol :	1033.8 mL	Analyst ID....:	Grandfield S. Virginia		

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.
- D Result was obtained from the analysis of a dilution.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

Northgate Environmental Management, Inc.

Sample ID: EB-040710-RZC

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....:	G0D130519 - 002	Work Order #....:	LXWV81AA	Matrix....:	WATER
Date Sampled....:	04/08/10	Date Received....:	04/13/10	Dilution Factor:	0.97
Prep Date....:	04/19/10	Analysis Date....:	05/01/10		
Prep Batch #:	0123308	Instrument ID....:	4D5		
Initial Wgt/Vol :	1033.8 mL	Analyst ID....:	Grandfield S. Virginia		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	1.0	D	4.9	0.39	pg/L
1,2,3,7,8-PeCDD	ND		24	0.48	pg/L
1,2,3,4,7,8-HxCDD	ND		24	0.36	pg/L
1,2,3,6,7,8-HxCDD	0.69	J Q	24	0.25	pg/L
1,2,3,7,8,9-HxCDD	0.65	J Q B	24	0.23	pg/L
1,2,3,4,6,7,8-HpCDD	5.5	J B	24	0.36	pg/L
OCDD	53	B	49	0.39	pg/L
2,3,7,8-TCDF	2.6	J	4.9	0.33	pg/L
1,2,3,7,8-PeCDF	1.5	J	24	0.36	pg/L
2,3,4,7,8-PeCDF	1.0	J Q B	24	0.39	pg/L
1,2,3,4,7,8-HxCDF	1.8	J Q B	24	0.42	pg/L
1,2,3,6,7,8-HxCDF	1.1	J Q B	24	0.38	pg/L
2,3,4,6,7,8-HxCDF	0.97	J Q B	24	0.42	pg/L
1,2,3,7,8,9-HxCDF	ND		24	0.47	pg/L
1,2,3,4,6,7,8-HpCDF	4.5	J B	24	0.49	pg/L
1,2,3,4,7,8,9-HpCDF	1.1	J Q B	24	0.63	pg/L
OCDF	12	J	49	0.52	pg/L

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	68	40 - 135
13C-1,2,3,7,8-PeCDD	70	40 - 135
13C-1,2,3,6,7,8-HxCDD	72	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	75	40 - 135
13C-OCDD	71	40 - 135
13C-2,3,7,8-TCDF	59	40 - 135
13C-1,2,3,7,8-PeCDF	63	40 - 135
13C-1,2,3,4,7,8-HxCDF	65	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	67	40 - 135

QUALIFIERS

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

D Result was obtained from the analysis of a dilution.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

QC DATA ASSOCIATION SUMMARY

G0D130519

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	SW846 8290		0123308	
002	WATER	SW846 8290		0123308	

Method Blank Report
Trace Level Organic Compounds
SW846 8290

Lot - Sample #....:	G0E030000 - 308B	Work Order #....:	L0W8G1AA	Matrix....:	WATER
Date Sampled....:	04/08/10	Date Received....:	04/13/10	Dilution Factor:	1
Prep Date....:	04/19/10	Analysis Date....:	05/01/10		
Prep Batch #:	0123308	Instrument ID....:	4D5		
Initial Wgt/Vol :	1000 mL	Analyst ID....:	Grandfield S. Virginia		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	0.57	pg/L
1,2,3,7,8-PeCDD	ND		50	0.81	pg/L
1,2,3,4,7,8-HxCDD	ND		50	0.55	pg/L
1,2,3,6,7,8-HxCDD	ND		50	0.50	pg/L
1,2,3,7,8,9-HxCDD	0.88	J	50	0.46	pg/L
1,2,3,4,6,7,8-HpCDD	1.6	J	50	0.50	pg/L
OCDD	2.6	J Q	100	0.94	pg/L
2,3,7,8-TCDF	ND		10	0.61	pg/L
1,2,3,7,8-PeCDF	ND		50	0.51	pg/L
2,3,4,7,8-PeCDF	0.94	J Q	50	0.54	pg/L
1,2,3,4,7,8-HxCDF	0.89	J Q	50	0.44	pg/L
1,2,3,6,7,8-HxCDF	0.50	J Q	50	0.40	pg/L
2,3,4,6,7,8-HxCDF	1.1	J	50	0.43	pg/L
1,2,3,7,8,9-HxCDF	ND		50	0.49	pg/L
1,2,3,4,6,7,8-HpCDF	0.93	J Q	50	0.61	pg/L
1,2,3,4,7,8,9-HpCDF	0.98	J Q	50	0.78	pg/L
OCDF	ND		100	0.89	pg/L

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	81	40 - 135
13C-1,2,3,7,8-PeCDD	85	40 - 135
13C-1,2,3,6,7,8-HxCDD	89	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	90	40 - 135
13C-OCDD	88	40 - 135
13C-2,3,7,8-TCDF	68	40 - 135
13C-1,2,3,7,8-PeCDF	74	40 - 135
13C-1,2,3,4,7,8-HxCDF	71	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	79	40 - 135

QUALIFIERS

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	G0D130519	Work Order # ...:	L0W8G1AC-LCS	Matrix	WATER
LCS Lot-Sample# :	G0E030000 - 308	Analysis Date ..:	05/01/10		
Prep Date	04/19/10				
Prep Batch # ...:	0123308				
Dilution Factor :	1				
Analyst ID.....:	Grandfield S. Virginia	Instrument ID..:	4D5	Method.....:	SW846 8290
Initial Wgt/Vol:	1000 mL				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS
2,3,7,8-TCDD	200	168	pg/L	84	(64 - 142)
1,2,3,7,8-PeCDD	1000	864	pg/L	86	(71 - 140)
1,2,3,4,7,8-HxCDD	1000	769	pg/L	77	(56 - 146)
1,2,3,6,7,8-HxCDD	1000	894	pg/L	89	(73 - 144)
1,2,3,7,8,9-HxCDD	1000	819	pg/L	82	(71 - 151)
1,2,3,4,6,7,8-HpCDD	1000	873	pg/L	87	(78 - 139)
OCDD	2000	1800	pg/L	90	(80 - 132)
2,3,7,8-TCDF	200	181	pg/L	91	(71 - 142)
1,2,3,7,8-PeCDF	1000	904	pg/L	90	(76 - 135)
2,3,4,7,8-PeCDF	1000	946	pg/L	95	(74 - 137)
1,2,3,4,7,8-HxCDF	1000	953	pg/L	95	(75 - 131)
1,2,3,6,7,8-HxCDF	1000	956	pg/L	96	(76 - 133)
2,3,4,6,7,8-HxCDF	1000	1000	pg/L	100	(80 - 137)
1,2,3,7,8,9-HxCDF	1000	961	pg/L	96	(77 - 142)
1,2,3,4,6,7,8-HpCDF	1000	894	pg/L	89	(79 - 133)
1,2,3,4,7,8,9-HpCDF	1000	930	pg/L	93	(83 - 130)
OCDF	2000	1770	pg/L	89	(72 - 140)

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	88	(40 - 135)
13C-1,2,3,7,8-PeCDD	95	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	104	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	100	(40 - 135)
13C-OCDD	100	(40 - 135)
13C-2,3,7,8-TCDF	76	(40 - 135)
13C-1,2,3,7,8-PeCDF	84	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	83	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	89	(40 - 135)

Notes:

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

Bold print denotes control parameters

WATER, 8290, Dioxins/Furans

Raw Data Package

Run/Batch Data

Includes (as applicable):

runlogs

continuing calibration standards

interference/performance check standards

continuing calibration blanks

method blanks

Ics

ms/sd

sample raw data

ms tune data

Quantitation Summary

TestAmerica West Sacramento

= LOW & GIAA Vp 5.3.10

Page 2 of

Run text: LX3LQ-1-AA Sample text: LX3LQ-1-AA :G0D160000-253B
 Run #7 Filename: 01MY104D5 S: 4 I: 1 Results: 01my104d58290a
 Acquired: 1-MAY-10 11:00:25 Processed: 2-MAY-10 09:21:45
 Run: 01MY104D5 Analyte: 8290A Cal: 8290A0412104D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 1.00 L

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	116545100	0.79 y	19:29	-	87.60	-	-	n
13C-2,3,7,8-TCDF	120751700	0.79 y	18:55	1.52	1362.62	0.75	68.1	n
2,3,7,8-TCDF	34912	0.83 y	18:56	0.95	mouse 0.61 DL	0.50	-	n
Total TCDF	56930	0.31 n	15:26	0.95	1.00	0.50	-	n
13C-2,3,7,8-TCDD	89513800	0.80 y	19:41	0.95	1617.50	3.00	80.9	n
2,3,7,8-TCDD	*	* n	Not Fnd	1.02	*	0.57	-	n
Total TCDD	*	* n	Not Fnd	1.02	*	0.57	-	n
37Cl-2,3,7,8-TCDD	95963600	1.00 y	19:42	2.26	728.26	0.13	91.0	n
13C-1,2,3,7,8-PeCDF	91008400	1.59 y	24:34	1.05	1486.94	1.03	74.3	n
1,2,3,7,8-PeCDF	22409	2.68 n	24:36	1.04	0.47	0.51	-	n
2,3,4,7,8-PeCDF	41869	1.19 n	26:06	0.98	0.94 JQ	0.54	-	n
Total F2 PeCDF	170722	0.89 n	24:25	1.01	3.72	0.52	-	n
Total F1 PeCDF	46310	0.31 n	20:41	1.01	1.00	0.52	-	n
13C-1,2,3,7,8-PeCDD	66024200	1.55 y	26:52	0.67	1689.90	0.62	84.5	n
1,2,3,7,8-PeCDD	6038	2.21 n	26:53	0.98	0.19	0.81	-	n
Total PeCDD	73185	1.37 y	23:15	0.98	2.26	0.81	-	n
13C-1,2,3,7,8,9-HxCDD	88355300	1.27 y	33:05	-	85.98	-	-	n
13C-1,2,3,4,7,8-HxCDF	64299000	0.52 y	31:54	1.02	1420.16	0.75	71.0	n
1,2,3,4,7,8-HxCDF	34665	1.57 n	31:54	1.21	0.89 JQ	0.44	-	n
1,2,3,6,7,8-HxCDF	21616	0.99 n	32:02	1.34	0.50 JQ	0.40	-	n
2,3,4,6,7,8-HxCDF	42008	1.17 y	32:37	1.22	1.07 J	0.43	-	n
1,2,3,7,8,9-HxCDF	14775	1.07 y	33:16	1.09	0.42	0.49	-	y
Total HxCDF	199883	2.01 n	30:22	1.22	5.10	0.44	-	y
13C-1,2,3,6,7,8-HxCDD	63789100	1.28 y	32:48	0.81	1789.10	0.09	89.5	n
1,2,3,4,7,8-HxCDD	13701	1.67 n	32:44	1.01	0.43	0.55	-	n
1,2,3,6,7,8-HxCDD	14545	1.12 y	32:51	1.11	0.41	0.50	-	n
1,2,3,7,8,9-HxCDD	33753	1.29 y	33:04	1.21	0.88 J	0.46	-	n
Total HxCDD	82182	1.08 y	31:23	1.11	2.28	0.50	-	n
13C-1,2,3,4,6,7,8-HpCDF	60239400	0.43 y	34:35	0.86	1580.79	6.22	79.0	n
1,2,3,4,6,7,8-HpCDF	36625	1.26 n	34:35	1.31	0.93 JQ	0.61	-	n
1,2,3,4,7,8,9-HpCDF	30234	0.73 n	35:44	1.03	0.98 JQ	0.78	-	n
Total HpCDF	83380	1.28 n	34:35	1.17	2.30	0.69	-	n
13C-1,2,3,4,6,7,8-HpCDD	55502900	1.02 y	35:24	0.70	1801.24	2.72	90.1	n
1,2,3,4,6,7,8-HpCDD	49029	0.99 y	35:25	1.07	1.65 J	0.50	-	n
Total HpCDD	110312	3.58 n	34:35	1.07	3.71	0.50	-	n
13C-OCDD	82896000	0.92 y	37:54	0.53	3531.18	0.15	88.3	n
OCDF	22450	0.37 n	38:02	1.45	0.75	0.89	-	n

OCDD

62879 1.50 n 37:55 1.17

2.60 ~~5~~ Q

0.94

- n

Quantitation Summary

TestAmerica West Sacramento

~~LOW GLAA~~

Page 2 of

Run text: LX3LQ-1-AA Sample text: LX3LQ-1-AA :G0D160000-253B
 Run #7 Filename: 01MY104D5 S: 4 I: 1 Results: 01MY104D58290A
 Acquired: 1-MAY-10 11:00:25 Processed: 2-MAY-10 09:21:45
 Run: 01MY104D5 Analyte: 8290A Cal: 8290A0412104D5
 Sample size: 1.00 L

James EDLs

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	116545100	0.79 y	19:29	-	87.6021	-	-	n
13C-2,3,7,8-TCDF	120751700	0.79 y	18:55	1.52	1362.6205	0.7467	68.1	n
2,3,7,8-TCDF	34912	0.83 y	18:56	0.95	0.6117 DL	0.5000	-	n
Total TCDF	56930	0.31 n	15:26	0.95	0.9975	0.5000	-	n
13C-2,3,7,8-TCDD	89513800	0.80 y	19:41	0.95	1617.5034	2.9988	80.9	n
2,3,7,8-TCDD	*	* n	Not Fnd	1.02	*	0.5723	-	n
Total TCDD	*	* n	Not Fnd	1.02	*	0.5723	-	n
37Cl-2,3,7,8-TCDD	95963600	1.00 y	19:42	2.26	728.2567	0.1291	91.0	n
13C-1,2,3,7,8-PeCDF	91008400	1.59 y	24:34	1.05	1486.9412	1.0250	74.3	n
1,2,3,7,8-PeCDF	22409	2.68 n	24:36	1.04	0.4714	0.5075	-	n
2,3,4,7,8-PeCDF	41869	1.19 n	26:06	0.98	0.9368 JQ	0.5398	-	n
Total F2 PeCDF	170722	0.89 n	24:25	1.01	3.7183	0.5232	-	n
Total F1 PeCDF	46310	0.31 n	20:41	1.01	1.0042	0.5215	-	n
13C-1,2,3,7,8-PeCDD	66024200	1.55 y	26:52	0.67	1689.8998	0.6217	84.5	n
1,2,3,7,8-PeCDD	6038	2.21 n	26:53	0.98	0.1863	0.8099	-	n
Total PeCDD	73185	1.37 y	23:15	0.98	2.2577	0.8099	-	n
13C-1,2,3,7,8,9-HxCDD	88355300	1.27 y	33:05	-	85.9846	-	-	n
13C-1,2,3,4,7,8-HxCDF	64299000	0.52 y	31:54	1.02	1420.1563	0.7507	71.0	n
1,2,3,4,7,8-HxCDF	34665	1.57 n	31:54	1.21	0.8892 JQ	0.4380	-	n
1,2,3,6,7,8-HxCDF	21616	0.99 n	32:02	1.34	0.5007 JQ	0.3955	-	n
2,3,4,6,7,8-HxCDF	42008	1.17 y	32:37	1.22	1.0690 J	0.4345	-	n
1,2,3,7,8,9-HxCDF	57738	1.32 y	33:19	1.09	1.6439	0.4861	-	n
Total HxCDF	242846	2.01 n	30:22	1.22	6.3208	0.4362	-	n
13C-1,2,3,6,7,8-HxCDD	63789100	1.28 y	32:48	0.81	1789.0971	0.0904	89.5	n
1,2,3,4,7,8-HxCDD	13701	1.67 n	32:44	1.01	0.4267	0.5484	-	n
1,2,3,6,7,8-HxCDD	14545	1.12 y	32:51	1.11	0.4094	0.4956	-	n
1,2,3,7,8,9-HxCDD	33753	1.29 y	33:04	1.21	0.8753 J	0.4566	-	n
Total HxCDD	82182	1.08 y	31:23	1.11	2.2815	0.4974	-	n
13C-1,2,3,4,6,7,8-HpCDF	60239400	0.43 y	34:35	0.86	1580.7877	6.2212	79.0	n
1,2,3,4,6,7,8-HpCDF	36625	1.28 n	34:35	1.31	0.9285 JQ	0.6138	-	n
1,2,3,4,7,8,9-HpCDF	30234	0.79 n	35:44	1.03	0.9787 JQ	0.7838	-	n
Total HpCDF	83380	1.28 n	34:35	1.17	2.3769	0.6884	-	n
13C-1,2,3,4,6,7,8-HpCDD	55502900	1.02 y	35:24	0.70	1801.2419	2.7190	90.1	n
1,2,3,4,6,7,8-HpCDD	49029	0.99 y	35:25	1.07	1.6483 J	0.5020	-	n
Total HpCDD	110312	3.58 n	34:35	1.07	3.7085	0.5020	-	n
13C-OCDD	82896000	0.92 y	37:54	0.53	3531.1823	0.1531	88.3	n
OCDF	22450	0.37 n	38:02	1.45	0.7495	0.8885	-	n
OCDD	62879	1.51 n	37:55	1.17	2.6016 JQ	0.9434	-	n

File:01MY104D5 #1-434 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-UltimaE

Sample#4 Text:LX3LQ-1-AA :G0D160000-253B Exp:DIOXINRES8290A

303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,624.0,1.00%,F,T)

A1.58E4

2.1E3

80
60
40
20
0

A9.46E3

1.7E3

A2.03E3

1.2E3

A5.64E3

8.3E2

A4.05E3
A5.07E3
A6.79E3

4.1E2

A3.05E3

A4.91E3

4.1E2

A4.12E3

A4.05E3

4.1E2

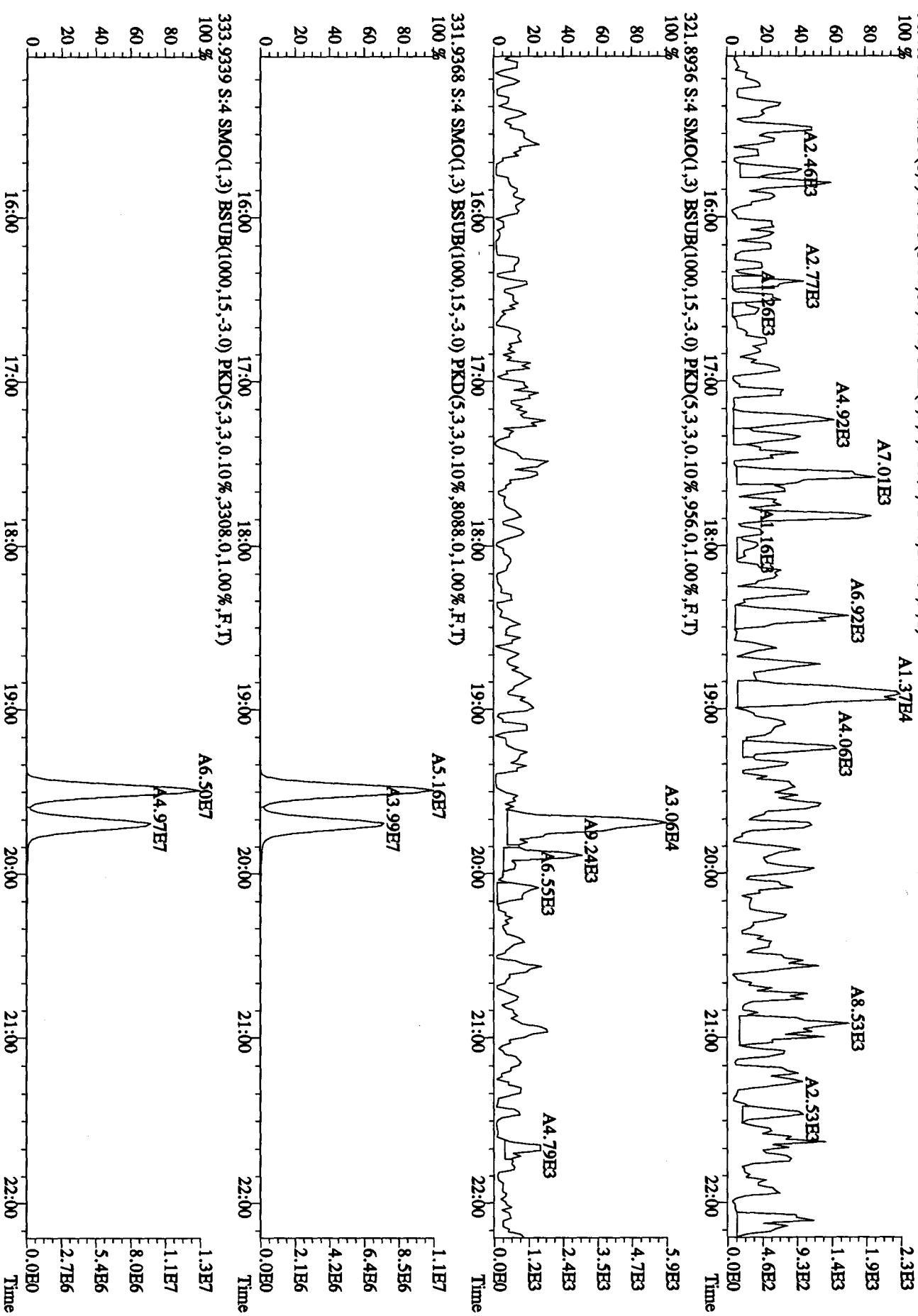
A4.12E3

4.1E2

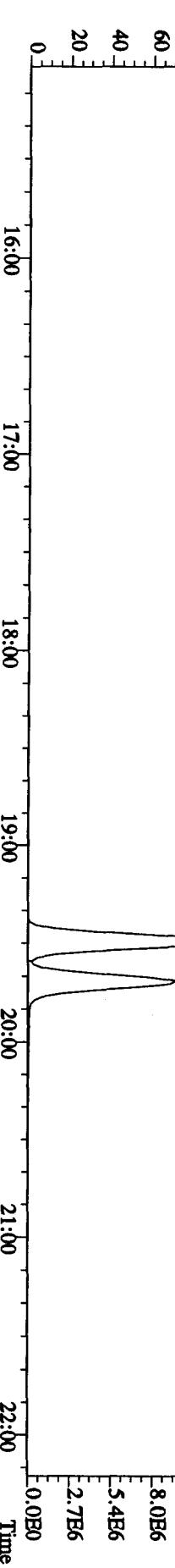
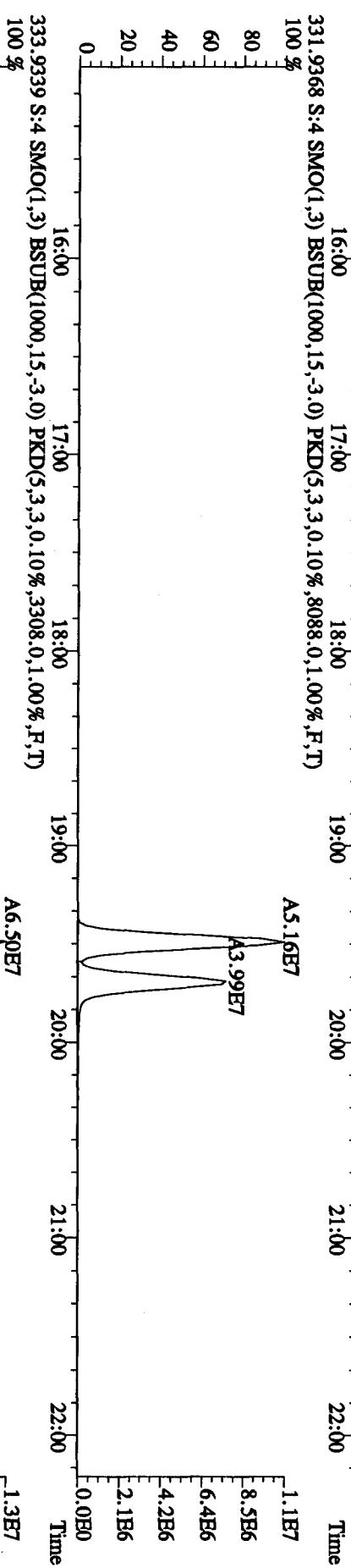
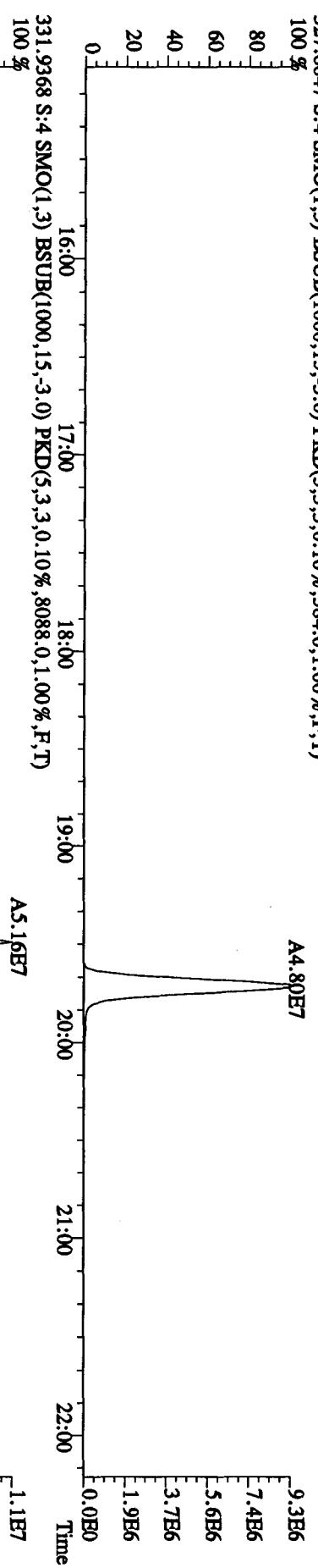
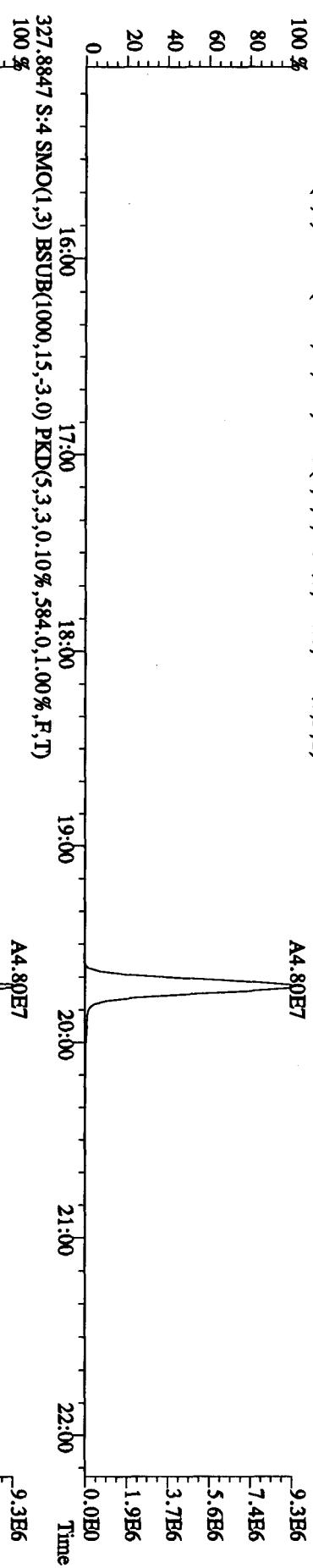
A4.91E3

4.1E2

File:01MY104D5 #1-434 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#4 Text:LX3LQ-1-AA :G0D160000-253B Exp:DIOXINRES8290A
 319.8965 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,716,0,1.00%,R,T)

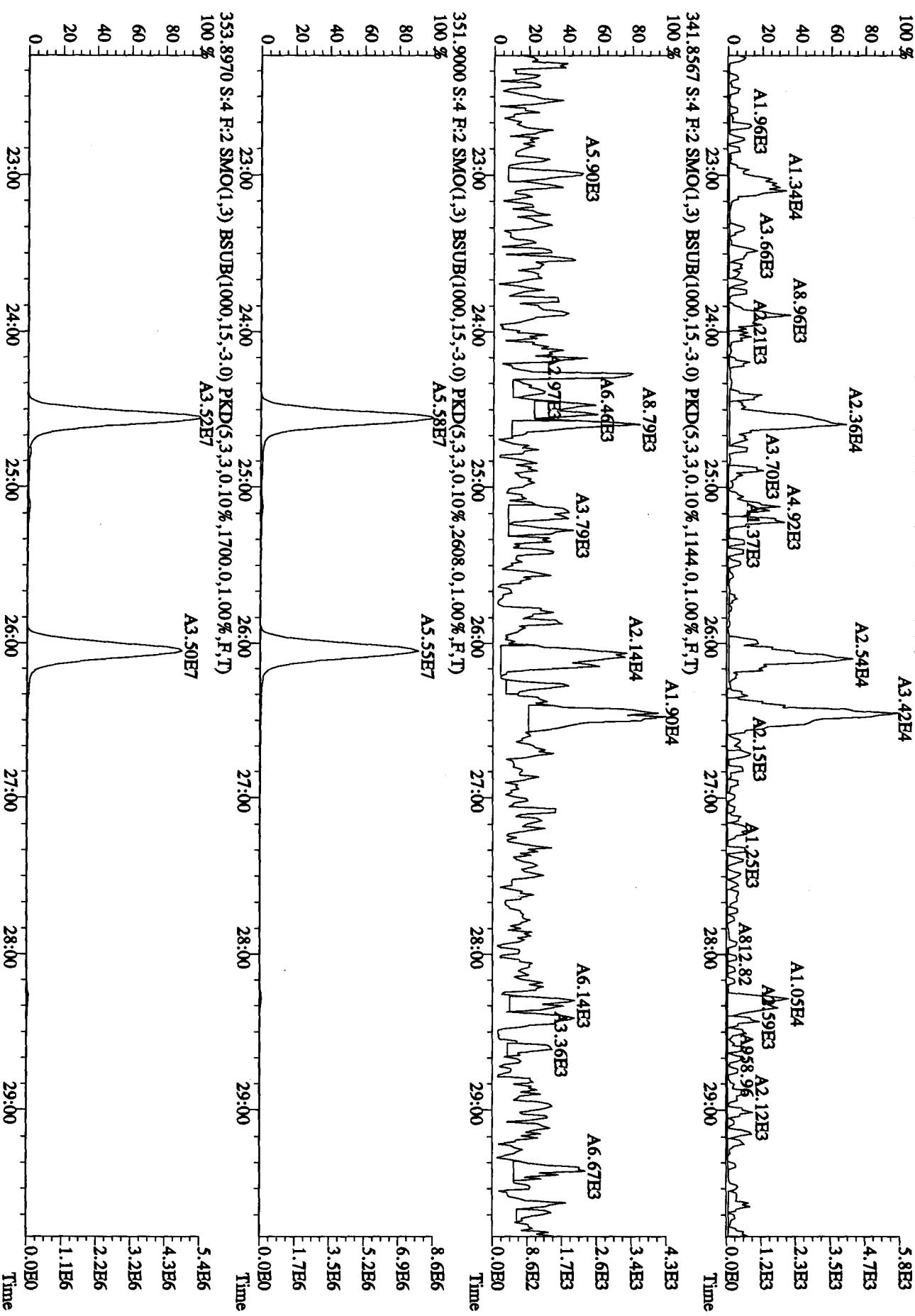


File:01MY104D5 #1-434 Acq: 1-MAY-2010 11:00:25 GC HI+ Voltage SIR Autospec-UltimaE
 Sample#4 Tex: LX3LQ-1-AA :G0D160000-253B Exp:DIOXINRES8290A
 327.847 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,584.0,1.00%,F,T)
 100 % 9.3E6
 80 7.4E6
 60 5.6E6
 40 3.7E6
 20 1.9E6
 0 0.0E0

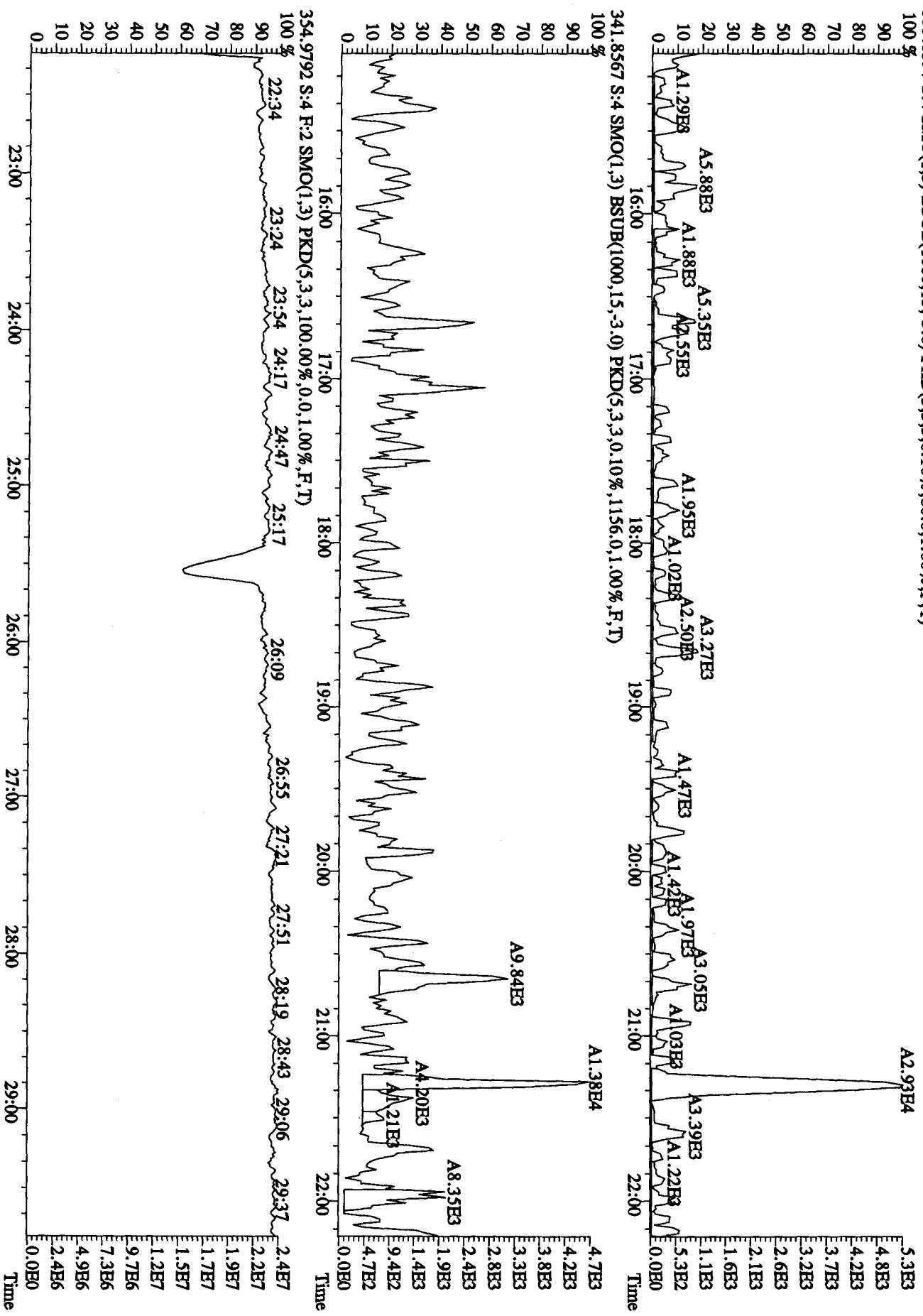


File:01MY104D5 #1-604 Acq: 1-MAY-2010 11:00:25 GC El+ Voltage SIR Autospec-UltimaE

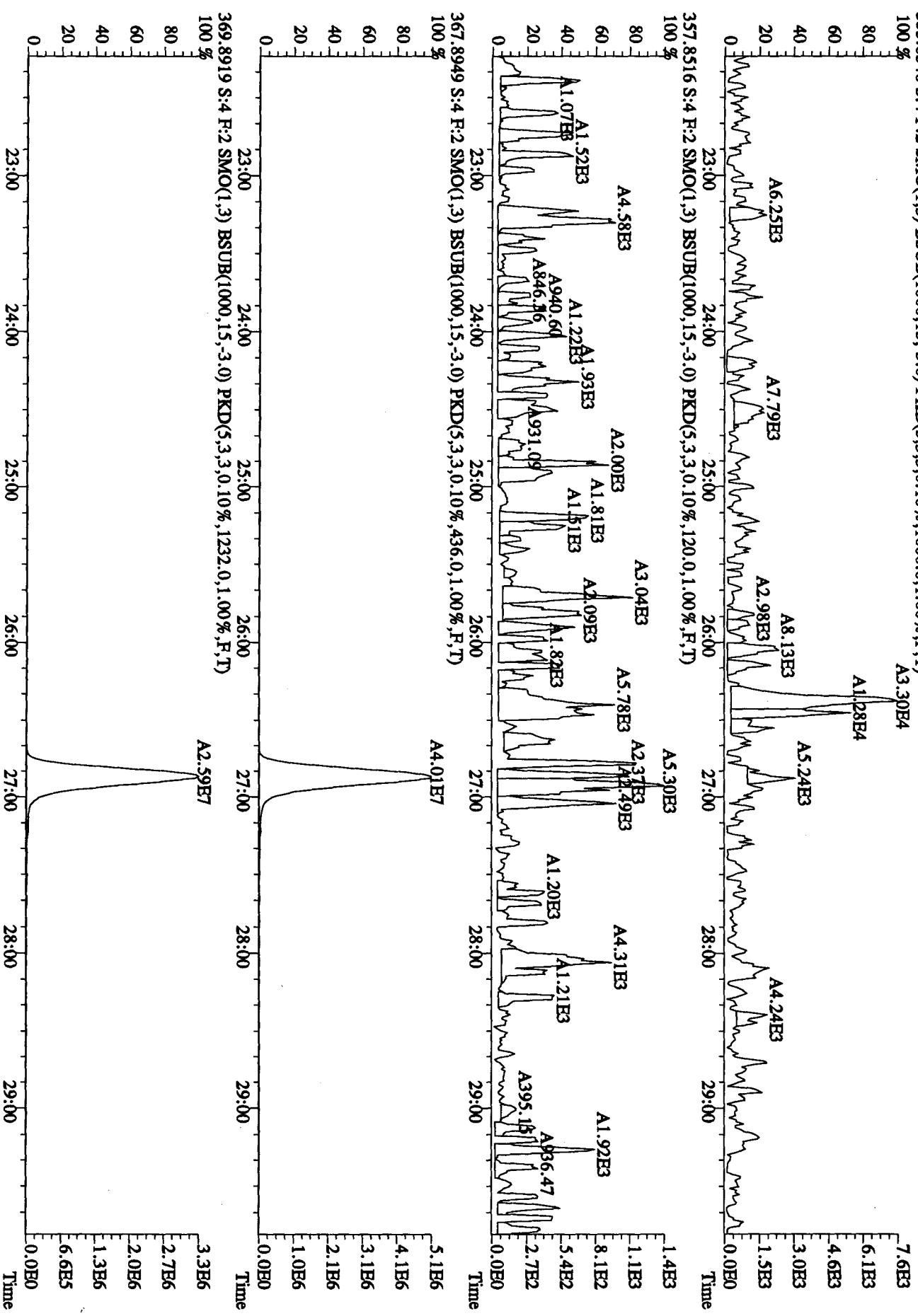
339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,96,0,1,00%,F,T,
100%)



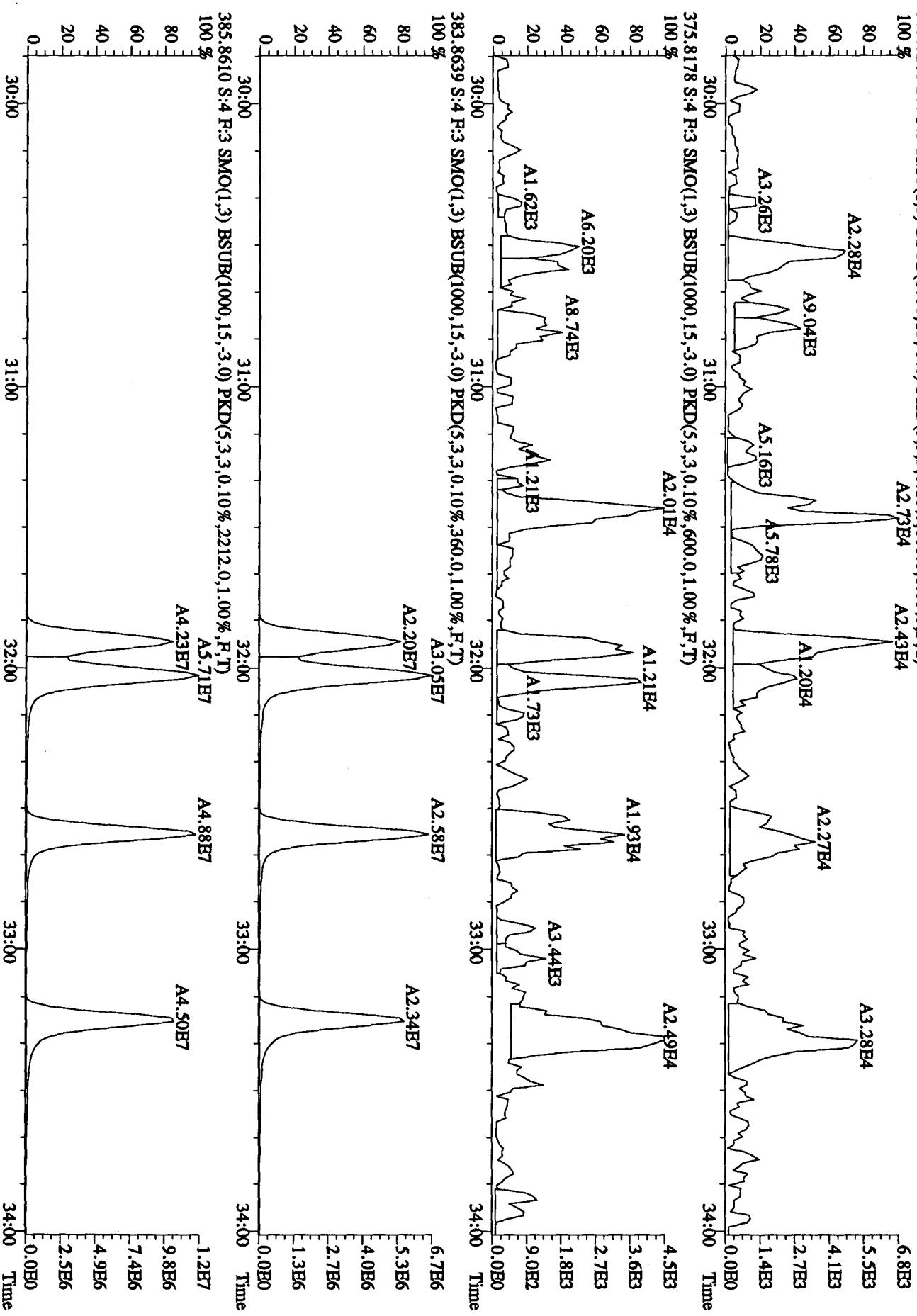
File:01MY104D5 #1-434 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Tex:LX3LQ-1-AA :G0D16000-253B Exp:DIOXINRES8290A
339.8597 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,80.0,1.0%,F,T)
100 g



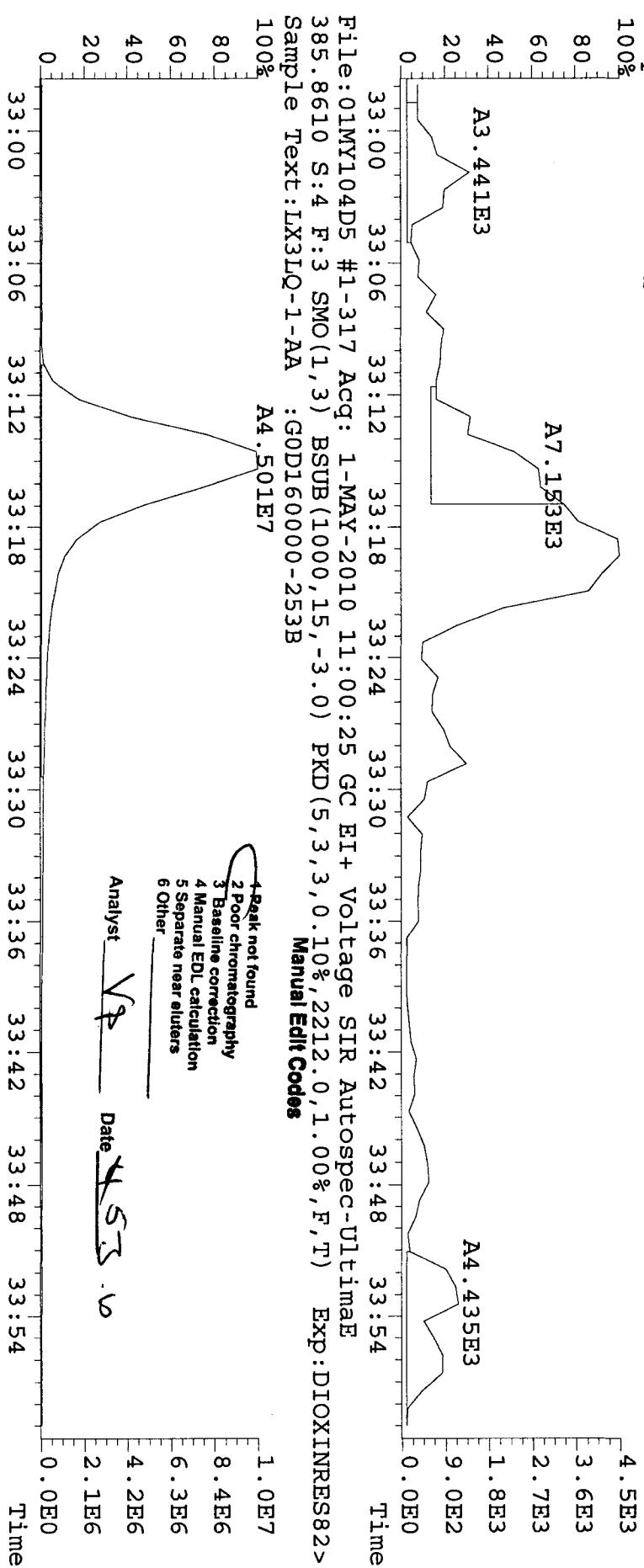
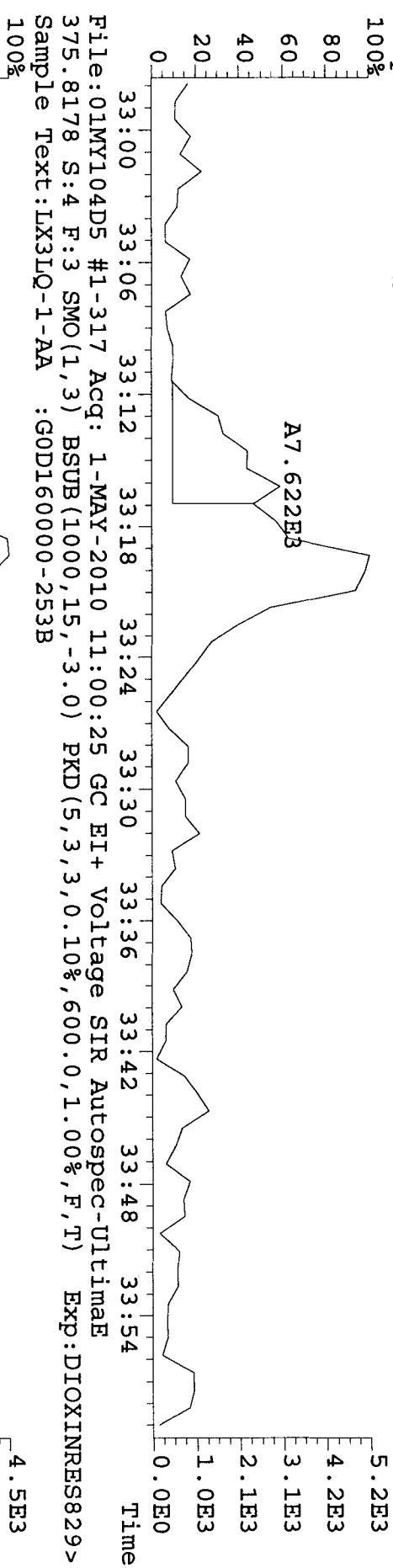
File:01MY104D5 #1-604 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#4 Text:LX3LQ-1-AA :G0D160000-253B Exp:DIOXINRES8290A
 355.8546 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1000.0,1.00%,F,T)
 A3.30E4
 7.6E3
 6.1E3
 4.6E3
 3.0E3
 1.5E3
 0.0E0



File:01MY104D5 #1-317 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 Text:LX3LQ-1-AA :G0D160000-253B Exp:DIOXINRESS290A
 373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,808.0,1.00%,F,T)
 A2.73E4 A2.43E4



File:01MY104D5 #1-317 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-UltimaE
373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,808.0,1.00%,F,T) Exp:DIOXINRES829>
Sample Text:LX3LQ-1-AA :G0D160000-253B
100%



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

File:01MY104DS #1-317 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-UltimaE

Sample#4 Tex:t:LX3LQ-1-AA :G0D160000-253B Exp:DIOXINRES290A

389.8157 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,584.0,1.00%,F,T)

100 %

4.5E3

3.6E3

2.7E3

1.8E3

9.1E2

0.0E0

4.5E3

3.6E3

2.7E3

1.8E3

9.1E2

File:01MY104D5 #1-198 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-UltimaE

Sample#4 Text:LX3LQ-1-AA :G0D160000-253B Exp:DIOXINRES3290A

407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1136.0,1.00%,F,T)

A2.30E4

6.8E3

80

5.4E3

60

4.1E3

40

2.7E3

20

1.4E3

0

0.0E0

A8.42E3

A1.54E4

A4.16E3

5.2E3

80

4.1E3

60

3.1E3

40

2.1E3

20

1.0E3

0

0.0E0

34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 Time

409.7789 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,772.0,1.00%,F,T)

A1.80E4

1.0E7

80

5.2E3

60

4.1E3

40

3.1E3

20

2.1E3

0

1.0E3

A1.25E4

A2.11E4

A2.26E3

5.2E3

80

4.1E3

60

3.1E3

40

2.1E3

20

1.0E3

0

0.0E0

34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 Time

417.8253 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3340.0,1.00%,F,T)

A1.82E7

4.3E6

80

3.4E6

60

2.6E6

40

1.7E6

20

8.6E5

0

0.0E0

A1.46E7

A3.41E7

1.0E7

80

8.0E6

60

6.0E6

40

4.0E6

20

2.0E6

0

0.0E0

34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 Time

Sample#4 Tex:IX3LQ-1-AA :G0D16000-253B Exp:DIOXINRES8290A

423.7766 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,560.0,1.00%,F,T)

425.7737 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,496.0,1.00%,F,T)

A2.44E4

6.2E3

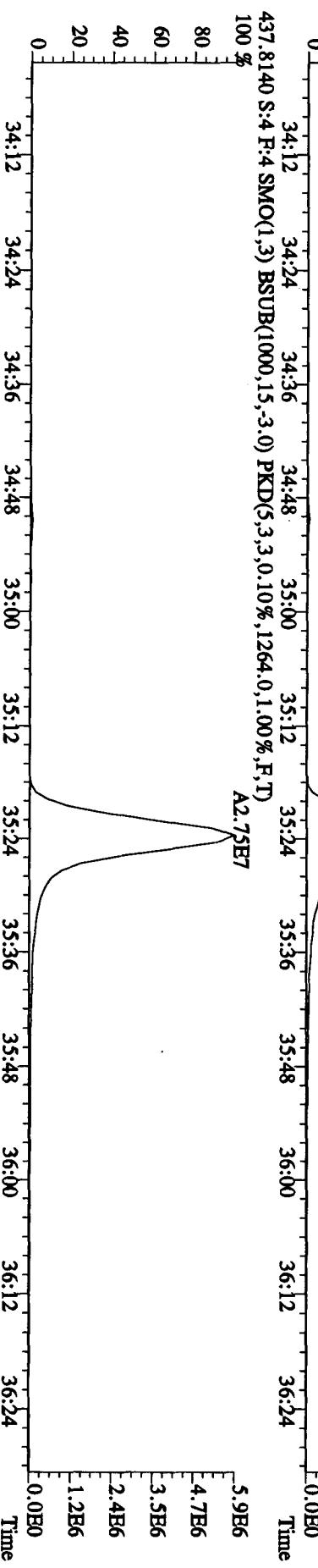
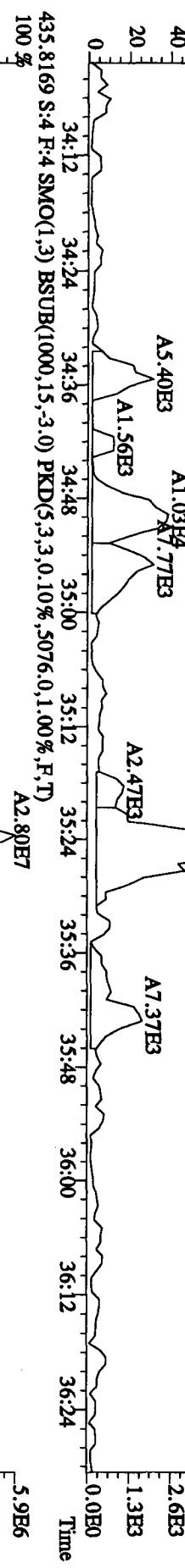
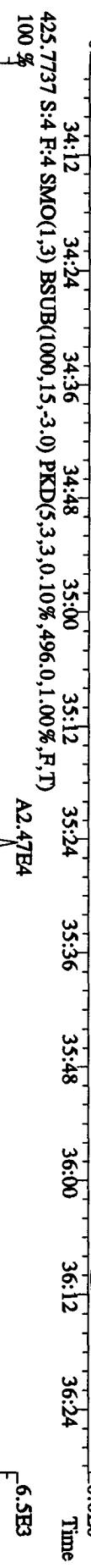
4.9E3

3.7E3

2.5E3

1.2E3

0.0E0



File:01MY104D5 #1-190 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:LX3LO-1-AA :G0D160000-253B Exp:DIOXINRES&90A
441.7428 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,776.0,1.00%,F,T)

A1.06E4

3.3E3

3.0E3

2.6E3

2.3E3

2.0E3

1.7E3

1.3E3

1.0E3

6.8E2

5.5E3

4.8E3

4.1E3

3.4E3

2.7E3

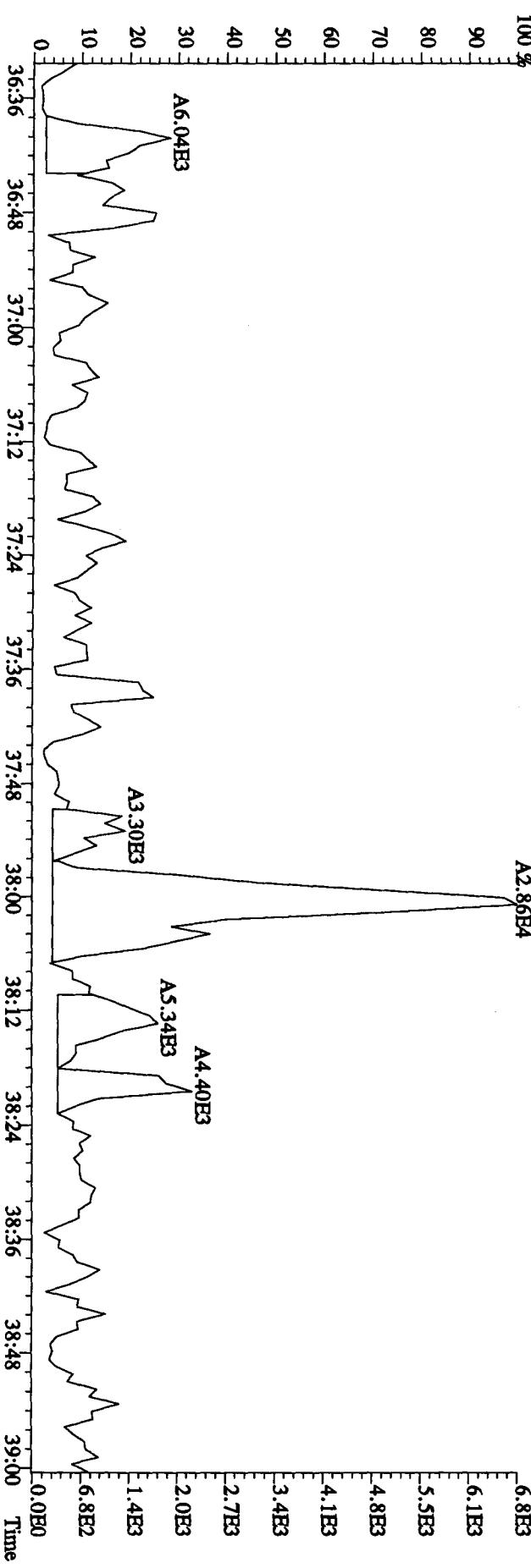
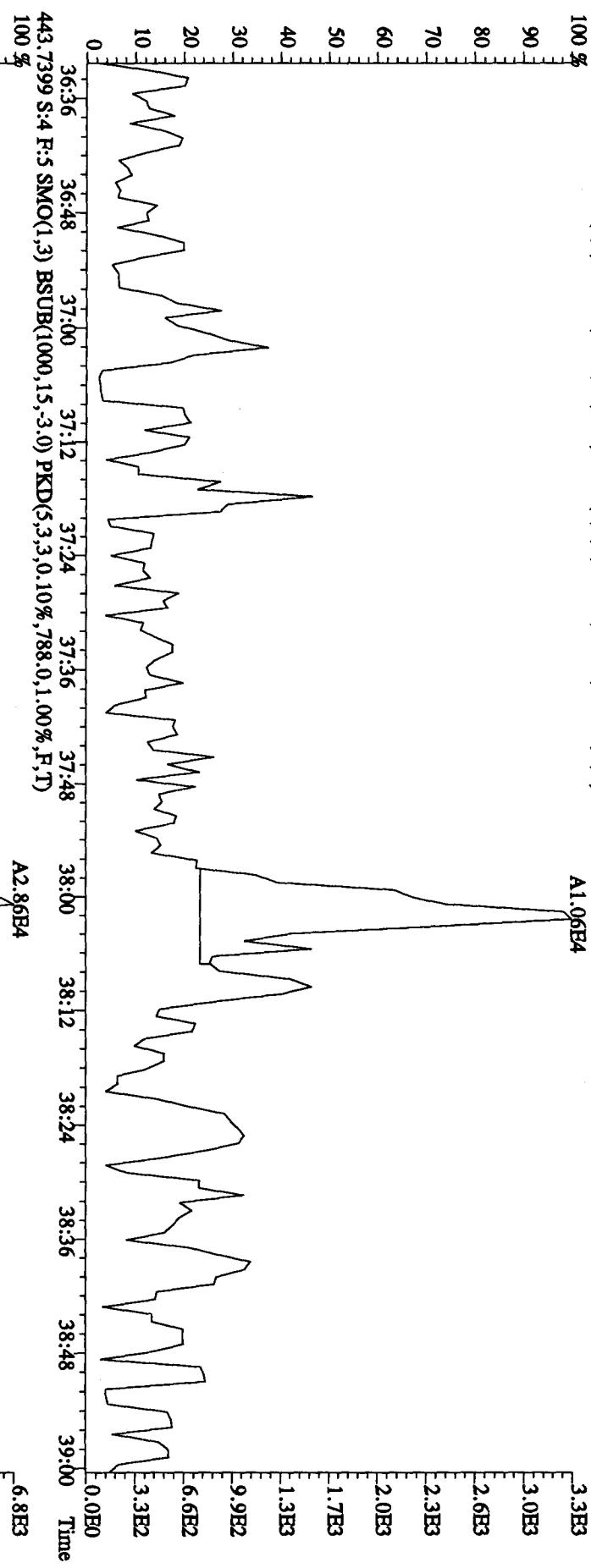
2.0E3

1.4E3

1.0E3

6.8E2

0.0E0



File:01MY104D5 #1-190 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 Text:IX3LQ-1-AA :G0D160000-253B Exp:DIOXINRES8290A
 457.377 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,568.0,1.00%,F,T)
 100 % A5.02E4 1.3E4

80 % 1.0E4
 60 % 7.5E3
 40 % 5.0E3
 20 % 2.5E3
 0 % -0.0E0 Time

A2.11E3 A3.15E3

A2.18E3 A3.33E4

A3.66E3 A2.18E3

A5.11E3 A3.97E7

A6.65E3 A3.03E3

A4.04E3 A3.97E7

A3.33E4 A3.97E7

A2.11E3 A3.97E7

A2.18E3 A3.97E7

A3.66E3 A3.97E7

A2.11E3 A3.97E7

A2.18E3 A3.97E7

A3.66E3 A3.97E7

A2.11E3 A3.97E7

A2.18E3 A3.97E7

A3.66E3 A3.97E7

A3.33E4 A3.97E7

A2.11E3 A3.97E7

A2.18E3 A3.97E7

A3.66E3 A3.97E7

9.1E3
 7.3E3
 5.5E3
 3.6E3
 1.8E3
 0.0E0 Time

7.0E6
 5.6E6
 4.2E6
 2.8E6
 1.4E6
 0.0E0 Time

A2.11E3 A3.15E3

A2.18E3 A3.33E4

A3.66E3 A2.18E3

A5.11E3 A3.97E7

A6.65E3 A3.03E3

A4.04E3 A3.97E7

A3.33E4 A3.97E7

A2.11E3 A3.97E7

A2.18E3 A3.97E7

A3.66E3 A3.97E7

A2.11E3 A3.97E7

A2.18E3 A3.97E7

A3.66E3 A3.97E7

A2.11E3 A3.97E7

A2.18E3 A3.97E7

A3.66E3 A3.97E7

A3.33E4 A3.97E7

A2.11E3 A3.97E7

A2.18E3 A3.97E7

A3.66E3 A3.97E7

7.7E6
 6.1E6
 4.6E6
 3.1E6
 1.5E6
 0.0E0 Time

A2.11E3 A3.15E3

A2.18E3 A3.33E4

A3.66E3 A2.18E3

A5.11E3 A3.97E7

A6.65E3 A3.03E3

A4.04E3 A3.97E7

A3.33E4 A3.97E7

A2.11E3 A3.97E7

A2.18E3 A3.97E7

A3.66E3 A3.97E7

A2.11E3 A3.97E7

A2.18E3 A3.97E7

A3.66E3 A3.97E7

A2.11E3 A3.97E7

A2.18E3 A3.97E7

A3.66E3 A3.97E7

A3.33E4 A3.97E7

A2.11E3 A3.97E7

A2.18E3 A3.97E7

A3.66E3 A3.97E7

File:01MY104D5 #1-434 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-UltimaE

Sample:#4 Text:LX3LQ-1-AA :G0D160000-253B Exp:DIOXINRES290A

354.9792 S:4 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)

100 % 15:26 16:05 16:28 16:53 17:21 18:04 18:26 18:54 19:29 20:10 20:34 21:11 21:34 22:11 2.4E7

60 1.9E7

40 9.5E6

20 4.8E6

0 1.4E7

100 % 16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time

0.0E0

303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,624,0,1.00%,F,T)

100 % 16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time

0.0E0

A9.46E3 A2.03E3 A5.64E3 A4.05E3 A5.07E3 A6.79E3 A1.58E4 A4.91E3 A4.05E3 A4.12E3 A1.33E4 A1.52E4 A8.37E3 A4.40E3 A3.10E3 A1.44E3 A1.52E3 A2.7E3 A1.8E3 A8.9E2 A4.4E3 3.6E3 2.7E3 1.8E3 0.0E0

1.6E3 1.3E3 9.7E2 6.5E2 3.2E2 0.0E0

305.8987 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1356,0,1.00%,F,T)

100 % 16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time

0.0E0

A9.13E3 A1.05E4 A6.17E3 A8.32E3 A1.52E4 A1.52E4 A8.37E3 A4.40E3 A3.10E3 A1.44E3 A1.52E3 A2.7E3 A1.8E3 A8.9E2 A4.4E3 3.6E3 2.7E3 1.8E3 0.0E0

1.6E3 1.3E3 9.7E2 6.5E2 3.2E2 0.0E0

375.8364 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,108,0,1.00%,F,T)

100 % 16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time

0.0E0

15:22 15:12 15:51 16:23 18:02 18:31

60 40 20 0 15:39 16:03 16:37 17:18 17:49 18:12 18:36 19:00 19:36 20:03 20:29 20:42 21:05 21:34 21:58 22:00 22:29 22:56 23:02 23:34 23:56 24:02 24:29 24:56 25:13 25:40 25:56 26:29 26:56 27:29 27:56 28:29 28:56 29:29 29:56 30:29 30:56 31:29 31:56 32:29 32:56 33:29 33:56 34:29 34:56 35:29 35:56 36:29 36:56 37:29 37:56 38:29 38:56 39:29 39:56 40:29 40:56 41:29 41:56 42:29 42:56 43:29 43:56 44:29 44:56 45:29 45:56 46:29 46:56 47:29 47:56 48:29 48:56 49:29 49:56 50:29 50:56 51:29 51:56 52:29 52:56 53:29 53:56 54:29 54:56 55:29 55:56 56:29 56:56 57:29 57:56 58:29 58:56 59:29 59:56 60:29 60:56 61:29 61:56 62:29 62:56 63:29 63:56 64:29 64:56 65:29 65:56 66:29 66:56 67:29 67:56 68:29 68:56 69:29 69:56 70:29 70:56 71:29 71:56 72:29 72:56 73:29 73:56 74:29 74:56 75:29 75:56 76:29 76:56 77:29 77:56 78:29 78:56 79:29 79:56 80:29 80:56 81:29 81:56 82:29 82:56 83:29 83:56 84:29 84:56 85:29 85:56 86:29 86:56 87:29 87:56 88:29 88:56 89:29 89:56 90:29 90:56 91:29 91:56 92:29 92:56 93:29 93:56 94:29 94:56 95:29 95:56 96:29 96:56 97:29 97:56 98:29 98:56 99:29 99:56 100:29 100:56

1.6E3 1.3E3 9.7E2 6.5E2 3.2E2 0.0E0

409.7974 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,120,0,1.00%,F,T)

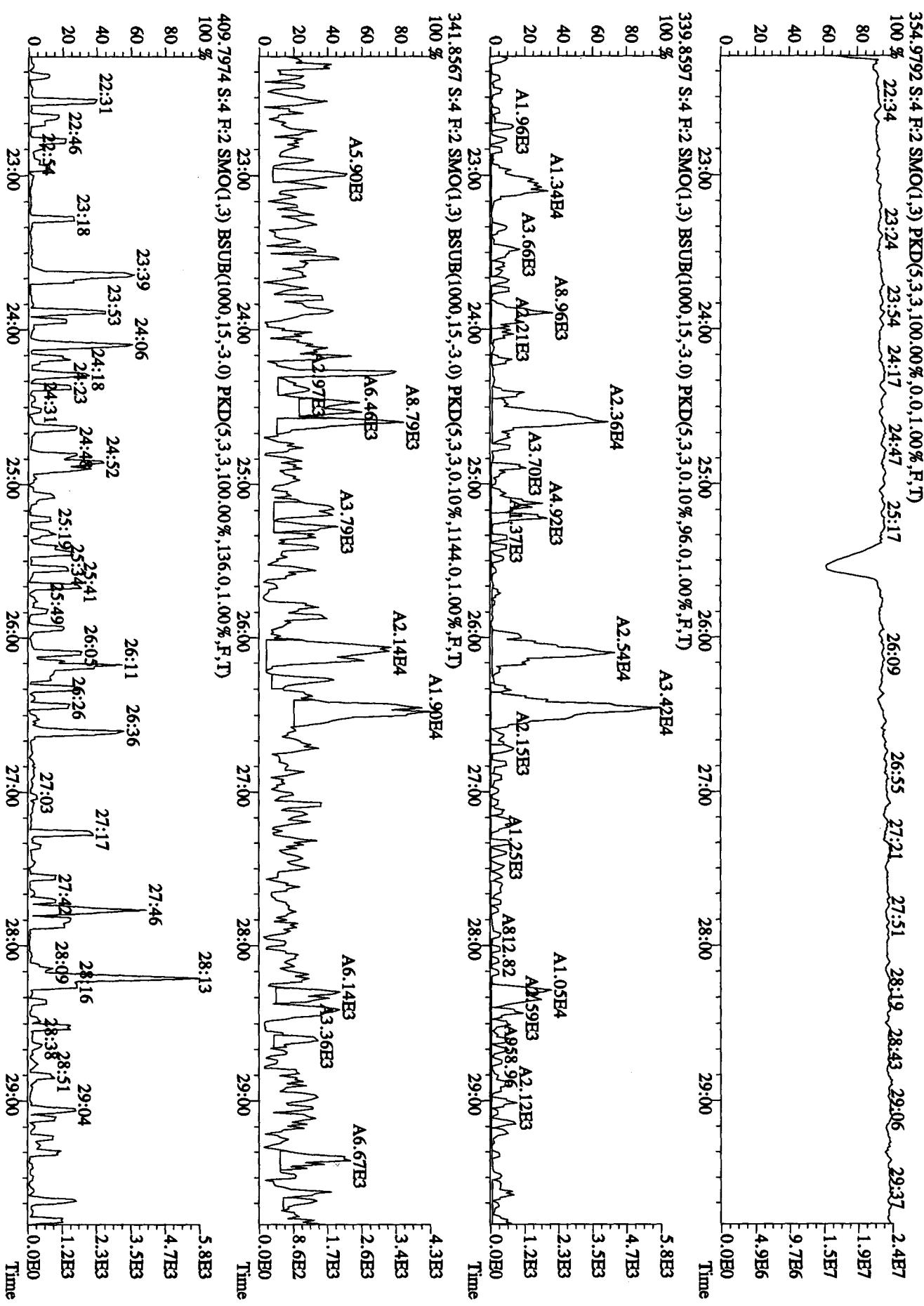
100 % 16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time

0.0E0

16:31 15:57 15:37 15:25 15:11 17:10 17:38 18:12 18:56 20:21 20:56 21:19 22:00 3.1E3 2.5E3 1.9E3 1.3E3 6.3E2 0.0E0

1.6E3 1.3E3 9.7E2 6.5E2 3.2E2 0.0E0

File:01MY104D5 #1-604 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:LX3LQ-1-AA :G0D160000-253B Exp:DIOXINRES8290A

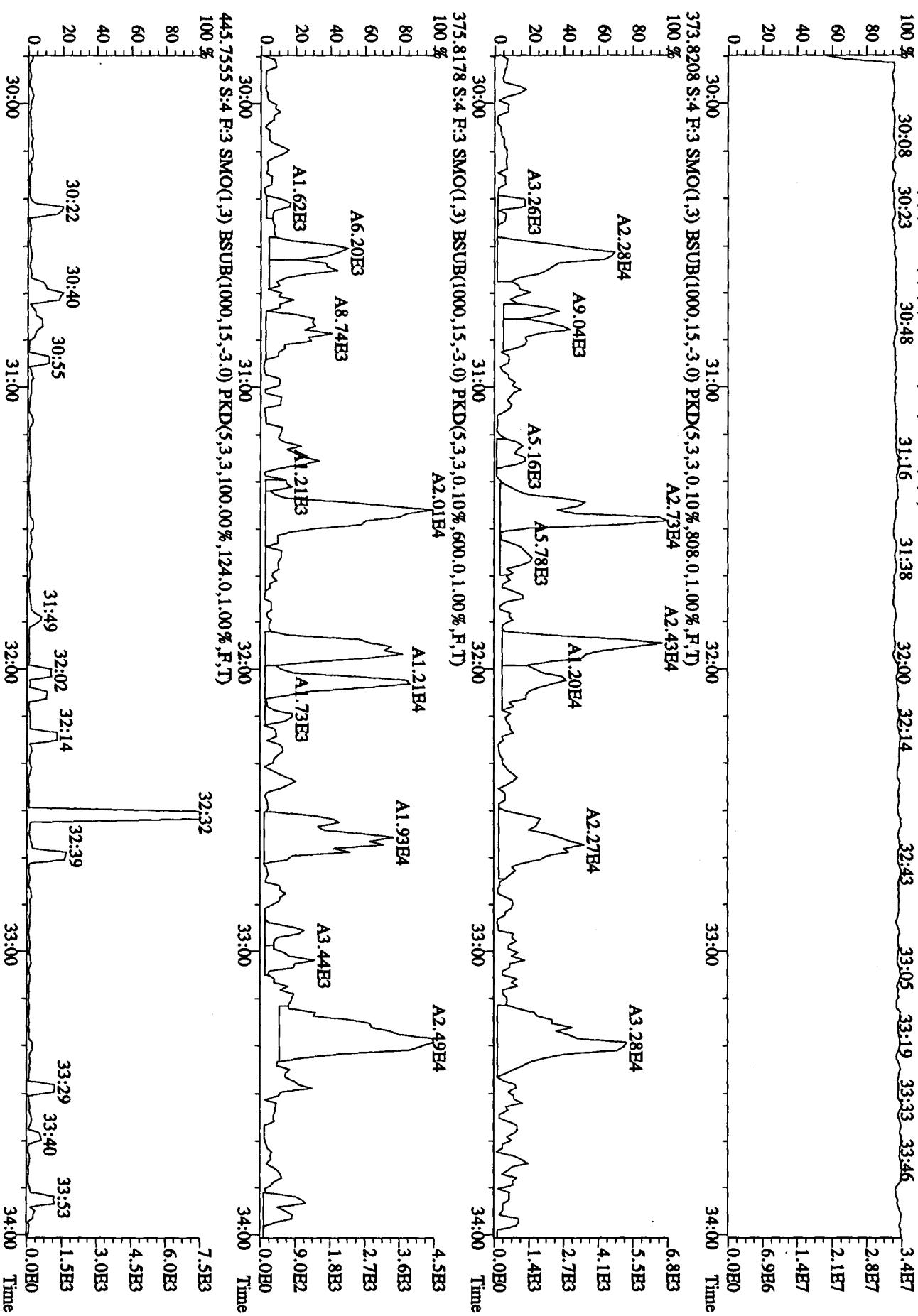


File:01MY104D5 #1-317 Acc: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-UltimaE

Sample# Text:LX3BQ-1-AA :GUD160000-233B Exp:BI0XINKE8290A

430.9728 S:4 F:3 SMO(1,3) PKB(3,3,3,100.00%,0,0,1,00%,F,T)

100% 30:08 30:23 30:48 31:16



File:01MY104D5 #1-190 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Tex:1X3LQ-1-AA :G0D160000-253B Exp:DIOXINRES8290A

442.9728 S:4 F:5 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)

100 % 36:36 36:47 37:03 37:15 37:33 37:43 38:02 38:13 38:24 38:35 38:49 38:56 3.0E7

80 60 40 20 0.0E0 36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

441.7428 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,776.0,1.00%,F,T)

100 % A1.06E4 3.3E3 2.6E3 2.0E3 1.3E3 6.6E2 0.0E0 36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

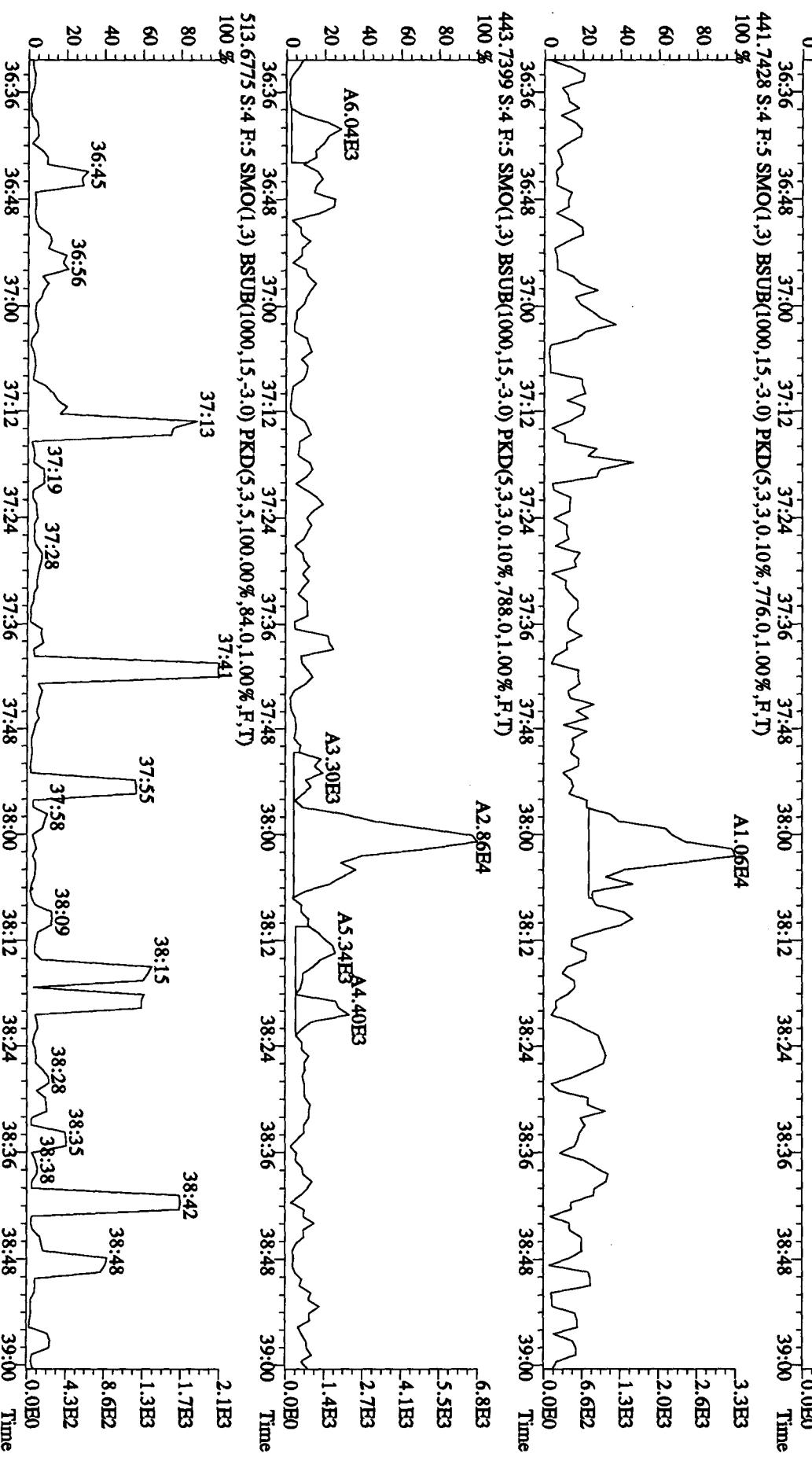
443.7399 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,788.0,1.00%,F,T)

100 % A2.86B4 6.8E3 5.5E3 4.1E3 2.7E3 1.4E3 0.0E0 36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

A6.04E3 37:13 37:19 37:28 37:41 37:55 38:15 38:42 2.1E3 1.7E3 1.3E3 8.6E2 4.3E2 0.0E0 36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

513.6775 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,84.0,1.00%,F,T)

100 % 37:13 37:19 37:28 37:41 37:55 38:15 38:42 2.1E3 1.7E3 1.3E3 8.6E2 4.3E2 0.0E0 36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time



Quantitation Summary

TestAmerica West Sacramento

Page 3 of

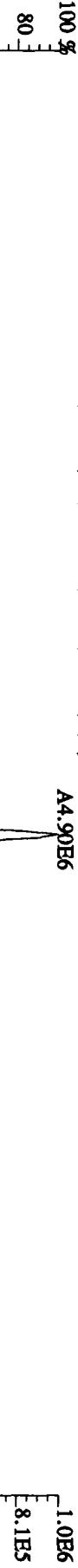
Run text: LX3LQ-1-AC Sample text: LX3LQ-1-AC :G0D160000-253C
 Run #8 Filename: 01MY104D5 S: 5 I: 1 Results: 01MY104D58290A
 Acquired: 1-MAY-10 11:44:27 Processed: 2-MAY-10 09:21:46
 Run: 01MY104D5 Analyte: 8290A Cal: 8290A0412104D5
 Sample size: 1.00 L

K85.3.10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	111747400	0.79 y	19:29	-	83.9959	-	-	n
13C-2,3,7,8-TCDF	128473800	0.80 y	18:55	1.52	1512.0036	1.0001	75.6	n
2,3,7,8-TCDF	11015430	0.80 y	18:56	0.95	181.4010	0.6786	-	n
Total TCDF	11115986	0.73 y	18:32	0.95	183.0569	0.6786	-	n
13C-2,3,7,8-TCDD	93526100	0.79 y	19:41	0.95	1762.5629	2.8665	88.1	n
2,3,7,8-TCDD	8024270	0.76 y	19:42	1.02	168.0618	0.6516	-	n
Total TCDD	8088477	0.74 y	18:29	1.02	169.4066	0.6516	-	n
37Cl-2,3,7,8-TCDD	92637600	1.00 y	19:43	2.26	733.1990	0.4223	91.6	n
13C-1,2,3,7,8-PeCDF	97962600	1.61 y	24:34	1.05	1669.2801	1.2642	83.5	n
1,2,3,7,8-PeCDF	46251200	1.59 y	24:35	1.04	903.8103	1.2628	-	n
2,3,4,7,8-PeCDF	45521200	1.59 y	26:05	0.98	946.2495	1.3433	-	n
Total F2 PeCDF	93028421	2.18 n	23:03	1.01	1875.3622	1.3018	-	n
Total F1 PeCDF	50066	0.37 n	16:39	1.01	1.0086	0.5266	-	n
13C-1,2,3,7,8-PeCDD	71262100	1.56 y	26:52	0.67	1902.2737	1.1855	95.1	n
1,2,3,7,8-PeCDD	30229500	1.61 y	26:53	0.98	864.0215	1.0725	-	n
Total PeCDD	30260224	1.61 y	26:53	0.98	864.8997	1.0725	-	n
13C-1,2,3,7,8,9-HxCDD	82977500	1.28 y	33:05	-	80.7511	-	-	n
13C-1,2,3,4,7,8-HxCDF	70791700	0.52 y	31:54	1.02	1664.8938	0.2293	83.2	n
1,2,3,4,7,8-HxCDF	40892200	1.29 y	31:55	1.21	952.7170	0.3937	-	n
1,2,3,6,7,8-HxCDF	45458900	1.29 y	32:02	1.34	956.4429	0.3555	-	n
2,3,4,6,7,8-HxCDF	43306400	1.26 y	32:36	1.22	1000.9933	0.3906	-	n
1,2,3,7,8,9-HxCDF	37163400	1.27 y	33:15	1.09	961.0713	0.4370	-	n
Total HxCDF	166898573	0.96 n	30:47	1.22	3873.0269	0.3921	-	n
13C-1,2,3,6,7,8-HxCDD	69584000	1.27 y	32:48	0.81	2078.1126	0.1121	103.9	n
1,2,3,4,7,8-HxCDD	26948400	1.28 y	32:44	1.01	769.3609	0.3496	-	n
1,2,3,6,7,8-HxCDD	34634800	1.29 y	32:49	1.11	893.6803	0.3160	-	n
1,2,3,7,8,9-HxCDD	34442100	1.30 y	33:06	1.21	818.7920	0.2911	-	n
Total HxCDD	96209137	1.28 y	32:44	1.11	2486.5939	0.3171	-	n
13C-1,2,3,4,6,7,8-HpCDF	63718000	0.44 y	34:35	0.86	1780.4399	11.8820	89.0	n
1,2,3,4,6,7,8-HpCDF	37301700	0.96 y	34:36	1.31	893.9879	3.8459	-	n
1,2,3,4,7,8,9-HpCDF	30372300	0.97 y	35:43	1.03	929.5078	4.9110	-	n
Total HpCDF	67674000	0.96 y	34:36	1.17	1823.4957	4.3136	-	n
13C-1,2,3,4,6,7,8-HpCDD	58139700	1.04 y	35:24	0.70	2009.0994	1.5727	100.5	n
1,2,3,4,6,7,8-HpCDD	27200500	1.04 y	35:24	1.07	872.9686	2.5095	-	n
Total HpCDD	27428715	1.07 y	34:51	1.07	880.2929	2.5095	-	n
13C-OCDD	87997500	0.89 y	37:54	0.53	3991.4359	0.0828	99.8	n
OCDF	56387400	0.91 y	38:01	1.45	1773.3622	0.7519	-	n
OCDD	46066800	0.89 y	37:55	1.17	1795.5019	3.5106	-	n

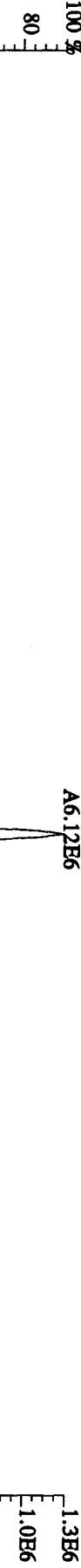
File:01MY104D5 #1-434 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-UltimaB
Sample#5 Text:LX3LQ-1-Ac :G0D160000-253C Exp:DIOXINRES829A
303.9016 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,796,0,1.00%,F,T)
100 %

A4.90E6



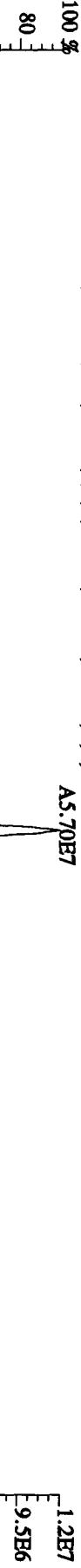
305.8987 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2080,0,1.00%,F,T)
100 %

A6.12E6



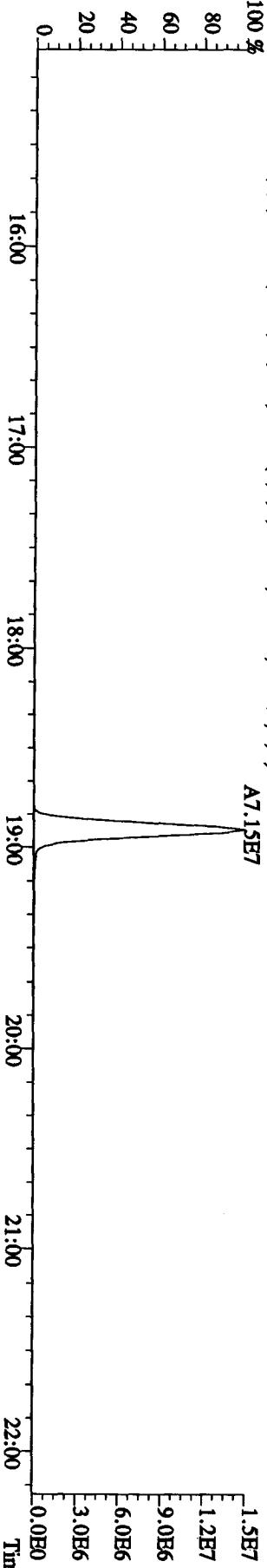
315.9419 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3560,0,1.00%,F,T)
100 %

A5.70E7

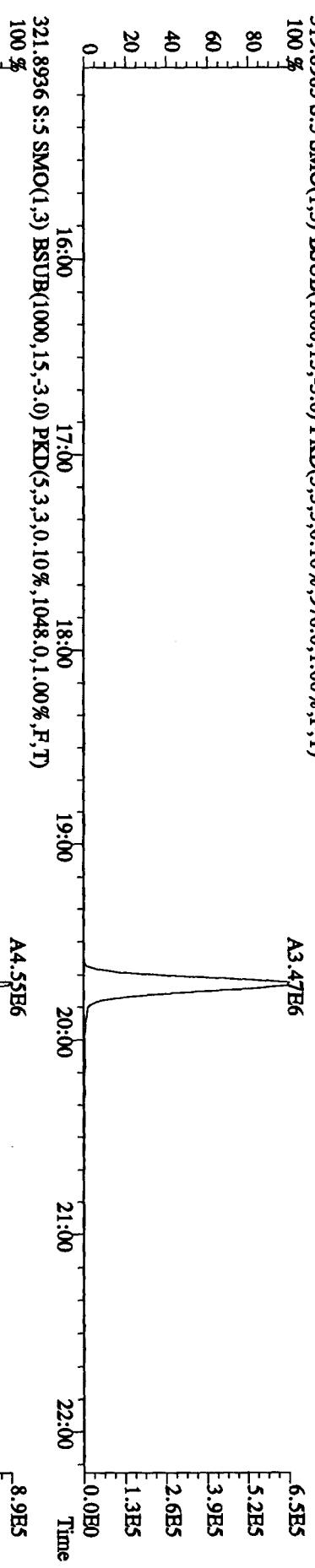


317.9389 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2364,0,1.00%,F,T)
100 %

A7.15E7



File:01MY104D5 #1-434 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 Text:LX3LQ-1.AC :G0D160000-253C Exp:DIOXINRES8290A
 319.8965 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,976.0,1.00%,F,T)
 100 % A3.47E6 6.5E5
 80 5.2E5
 60 3.9E5
 40 2.6E5
 20 1.3E5
 0 0.0E0

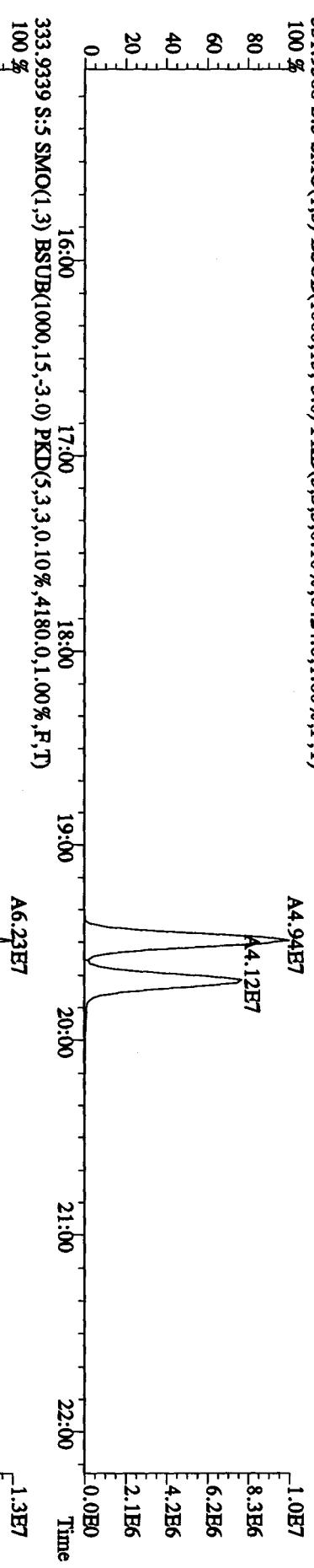
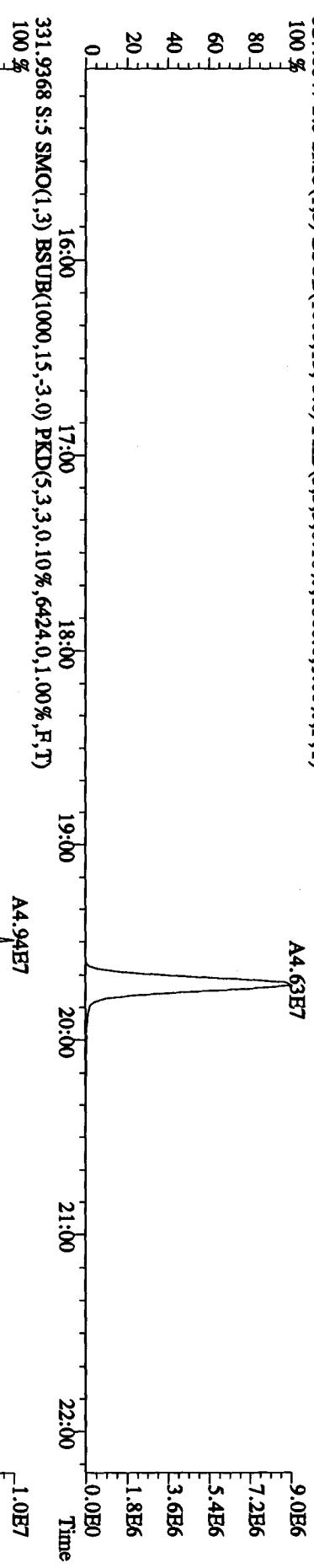
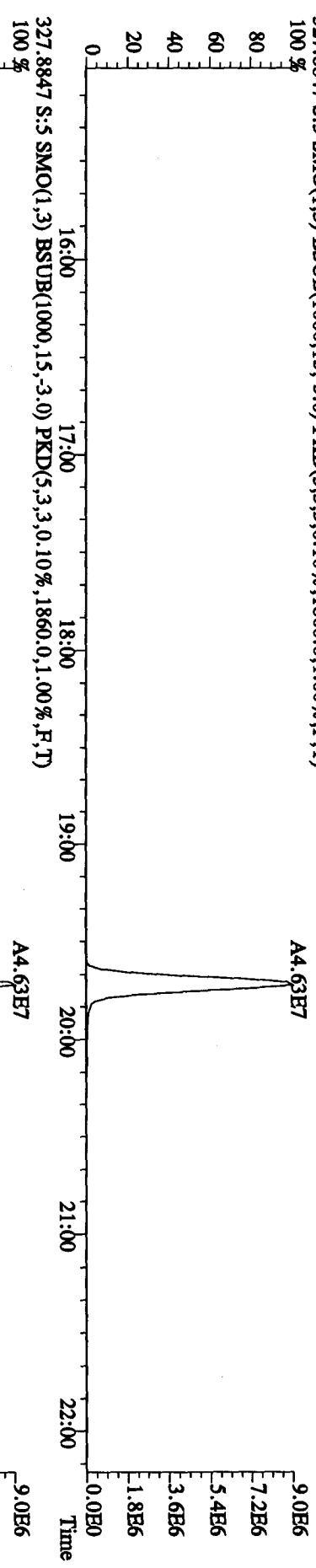


331.9368 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6424.0,1.00%,F,T) A4.94E7 1.0E7
 100 % 8.3E6
 80 6.2E6
 60 4.2E6
 40 2.1E6
 20 0.0E0
 0 16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time

333.9339 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4180.0,1.00%,F,T) A6.23E7 1.3E7
 100 % 1.0E7
 80 7.8E6
 60 5.2E6
 40 2.6E6
 20 0.0E0
 0 16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time

16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time

File:01MY104D5 #1-434 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 Text:LX3LQ-1.AC :G0D160000-253C Exp:DIOXINRES8290A
 327.8847 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1860.0,1.00%,F,T)
 100 % 9.0E6
 80 7.2E6
 60 5.4E6
 40 3.6E6
 20 1.8E6
 0 0.0E0



File:01MY104DS #1-604 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-UltimaE

Sample#5 Text:LX3LQ-1-AC :G0D160000-253C Exp:DIOXINRES890A

339.8597 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,1304.0,1.00%,F,T)

100 % A2.84E7

A2.79E7

4.4E6

3.5E6

2.6E6

2.2E6

1.7E6

1.1E6

5.4E5

2.7E6

2.2E6

1.6E6

1.1E6

0.0E0

341.8567 S:5 F:2 SMO(1,3) BSUB(1000,15,3.0) PKD(5.3,3,0.10%,2048.0,1.00%,R,T)

A1.76E7

A1.76E7

8.7E5

4.0E6

3.5E6

2.6E6

2.2E6

1.7E6

1.1E6

5.4E5

2.7E6

2.2E6

1.6E6

1.1E6

0.0E0

351.9000 S:5 F:2 SMO(1,3) BSUB(1000,15,3.0) PKD(5.3,3,0.10%,3652.0,1.00%,R,T)

A6.04E7

A5.98E7

9.5E6

7.6E6

5.7E6

3.8E6

1.9E6

5.8E6

4.7E6

3.5E6

2.3E6

1.2E6

0.0E0

353.8970 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,1520.0,1.00%,F,T)

A3.76E7

A3.83E7

4.0E6

3.5E6

2.6E6

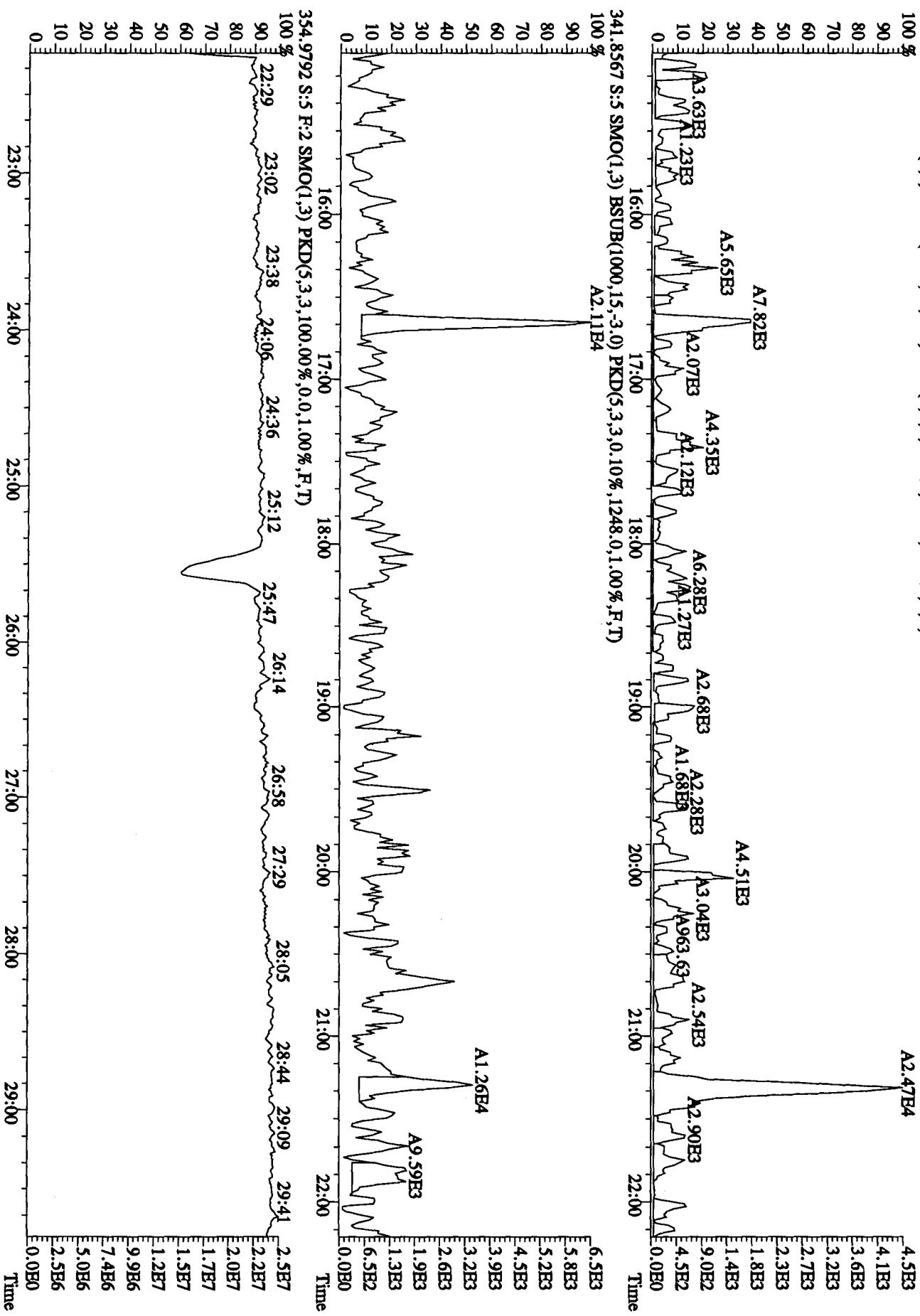
2.2E6

1.1E6

0.0E0

Time
23:00 24:00 25:00 26:00 27:00 28:00 29:00 0.0E0
Time
23:00 24:00 25:00 26:00 27:00 28:00 29:00 0.0E0
Time
23:00 24:00 25:00 26:00 27:00 28:00 29:00 0.0E0

File:01MY104D5 #1-434 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#5 Text:LX31Q-1-AC :G0D16000-253C Exp:DIOXINRES8290A
 339.8397 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,108.0,1.00%,F,T)



File:01MY104D5 #1-604 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 Text:LX3LQ-1.AC :G0D160000-253C Exp:DIOXINRES290A
 355.8546 S:5 R:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1280.0,1.00%,F,T)
 100 %
 80
 60
 40
 20
 0

A1.86E7

2.4E6

1.9E6

1.4E6

9.5E5

4.7E5

0.0E0



357.8516 S:5 R:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,324.0,1.00%,F,T)
 100 %
 80
 60
 40
 20
 0

A1.16E7

1.5E6

1.2E6

8.9E5

6.0E5

3.0E5

0.0E0

367.8949 S:5 R:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2940.0,1.00%,F,T)
 100 %
 80
 60
 40
 20
 0

A4.34E7

5.5E6

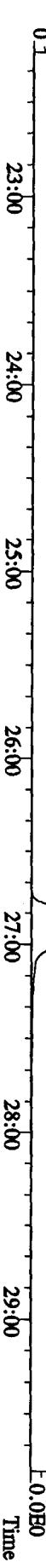
4.4E6

3.3E6

2.2E6

1.1E6

0.0E0



369.8919 S:5 R:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,204.0,1.00%,F,T)
 100 %
 80
 60
 40
 20
 0

A2.78E7

3.6E6

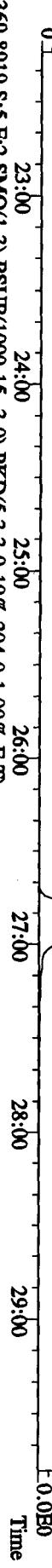
2.9E6

2.2E6

1.4E6

7.2E5

0.0E0



File:01MY104D5 #1-317 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-UltimaB

Sample#5 Text:LX3IQC-1-AC :G0D160000-233C Exp:DIOXINRES8290A

373.8208 S,5 F,3 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0.10%,732.0,1.00%,F,T)

100 % A2.56E7 6.1E6

80 % A2.41E7 4.8E6

60 % A2.08E7 3.6E6

40 % A2.4E6 2.4E6

20 % A1.2E6 1.2E6

0 % 0.0E0 Time

375.8178 S,5 F,3 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0.10%,596.0,1.00%,F,T)

100 % A1.99E7 4.7E6

80 % A1.92E7 3.8E6

60 % A1.64E7 2.8E6

40 % A1.9E5 1.9E6

20 % A2.4E5 9.4E5

0 % 0.0E0 Time

383.8639 S,5 F,3 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0.10%,616.0,1.00%,F,T)

100 % A3.00E7 6.9E6

A2.42E7 5.5E6

A2.81E7 4.1E6

A2.45E7 2.7E6

20 % A1.4E6 1.4E6

0 % 0.0E0 Time

385.8610 S,5 F,3 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0.10%,132.0,1.00%,F,T)

100 % A5.80E7 1.3E7

A4.66E7 1.1E7

A5.38E7 7.9E6

A4.68E7 5.3E6

20 % A2.6E6 2.6E6

0 % 0.0E0 Time

File:01MY104D5 #1-317 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-UltimaE

Sample#5 Text:LX3LQ-1-AC :G0D160000-233C Exp:DIOXINRES8290A

389.8157 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,84.0,1.00%,F,T)

100 %

A1.51E7 A1.94E7 4.5E6
3.6E6
2.7E6
1.8E6
8.9E5

80

60

40

20

0

30:00 31:00 32:00 33:00 34:00 Time

391.8127 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,840.0,1.00%,F,T)

100 %

A1.51E7 3.5E6
2.8E6
2.1E6
1.4E6
7.1E5

60

40

20

0

30:00 31:00 32:00 33:00 34:00 Time

401.85559 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,144.0,1.00%,F,T)

100 %

A3.90E7 A4.65E7 1.1E7
8.6E6
6.4E6
4.3E6
2.1E6

60

40

20

0

30:00 31:00 32:00 33:00 34:00 Time

403.8529 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,144.0,1.00%,F,T)

100 %

A3.06E7 A3.65E7 8.4E6
6.7E6
5.0E6
3.4E6
1.7E6

80

60

40

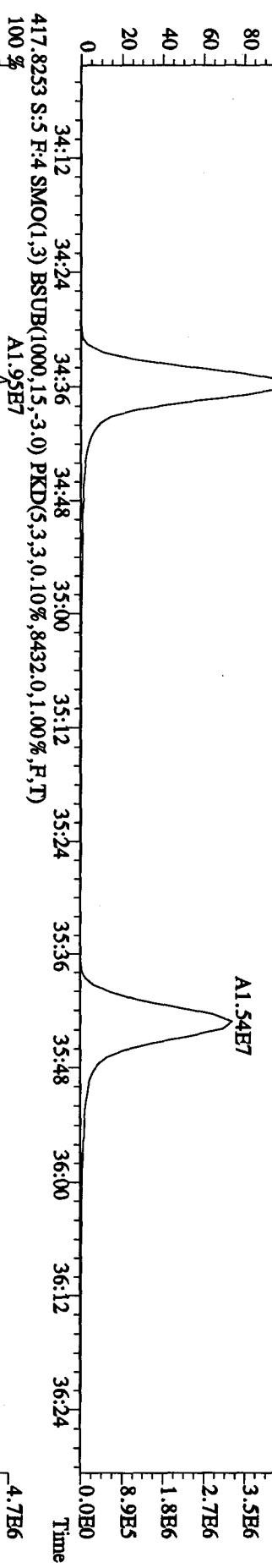
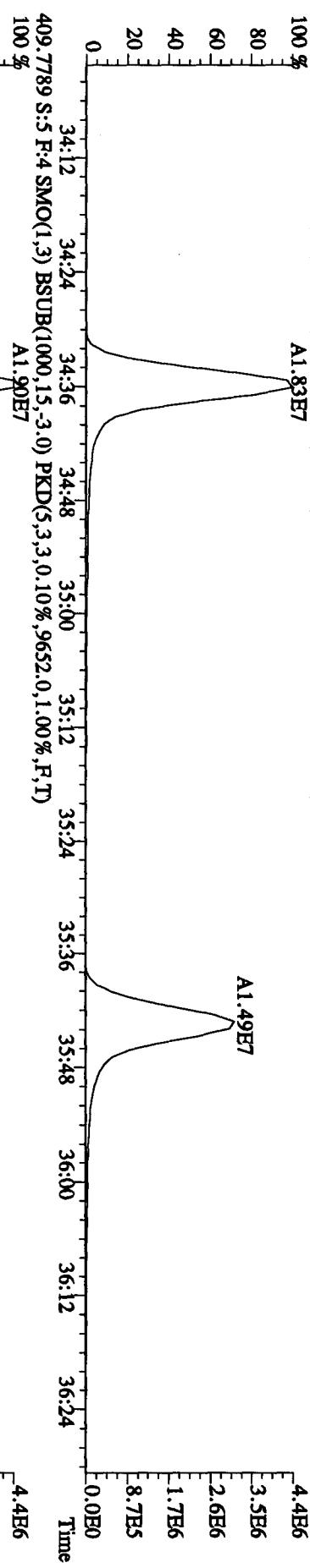
20

0

30:00 31:00 32:00 33:00 34:00 Time

G0D130519 TestAmerica West Sacramento (916) 373 - 5600 52 of 314

File:01MY104D5 #1-198 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 Text: LX3LQ-1-AC :G0D160000-253C Exp:DIOXINRBS290A
 407.818 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3144.0,1.00%,F,T)
 100 % A1.83E7



A1.95E7

4.4E6

3.5E6

2.6E6

1.7E6

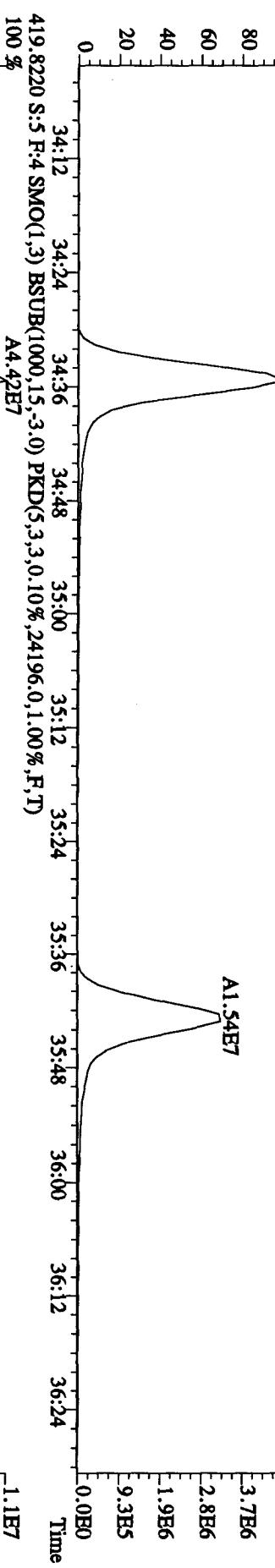
8.7E5

4.2E6

2.1E6

0.0E0

Time



A1.95E7

4.7E6

3.7E6

2.8E6

1.9E6

9.3E5

1.1E7

8.4E6

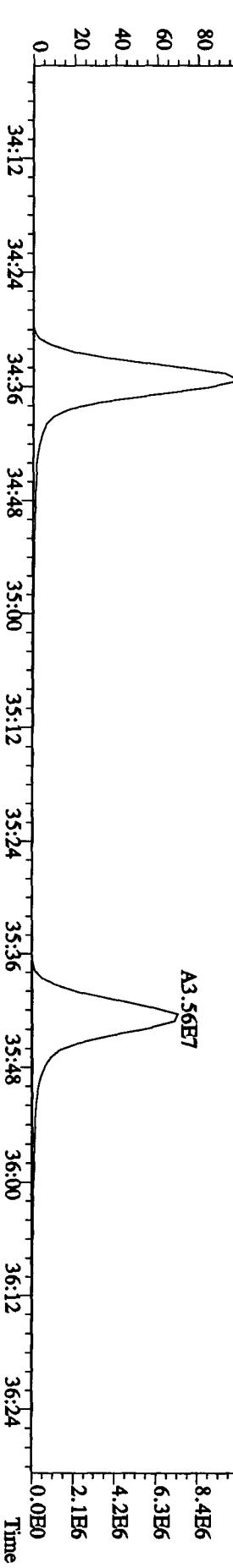
6.3E6

4.2E6

2.1E6

0.0E0

Time



A4.42E7

4.3E6

3.4E6

2.5E6

1.6E6

9.3E5

1.1E7

8.4E6

6.3E6

4.2E6

2.1E6

0.0E0

Time

File:01MY104D5 #1-198 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-UltimaB

Sample#5 Text:LX3LQ-1AC :G0D160000-253C Exp:DIOXINRES8290A

423.7766 S:5 R:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3240.0,1.00%,F,T)

100 % A1.39E7 3.1E6

80 2.5E6

60 1.8E6

40 1.2E6

20 6.1E5

0 0.0E0



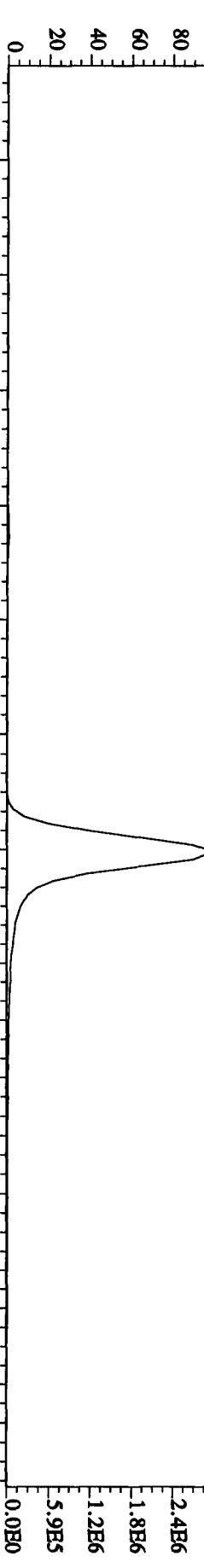
80 2.4E6

60 1.8E6

40 1.2E6

20 5.9E5

0 0.0E0



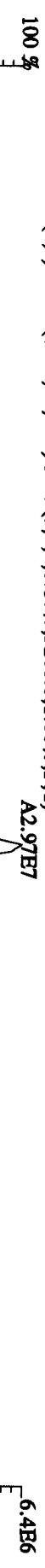
80 5.1E6

60 3.8E6

40 2.6E6

20 1.3E6

0 0.0E0



80 5.0E6

60 3.8E6

40 2.5E6

20 1.3E6

0 0.0E0

File:01MY104D5 #1-190 Acq: 1-MAY-2010 11:44:27 GC HI+ Voltage SIR Autospec-UltimaB
Sample#5 Text:LX3LO-1-AC :G0D160000-253C Exp:DIOXINRES8290A
441.7428 S:5 F:5 SMO(1,3) BSUB(1000,15,-30) PKD(5,3,3,0.10%,560.0,1.00%,F,T)
100 %

A2.69E7

5.0E6

4.5E6

4.0E6

3.5E6

3.0E6

2.5E6

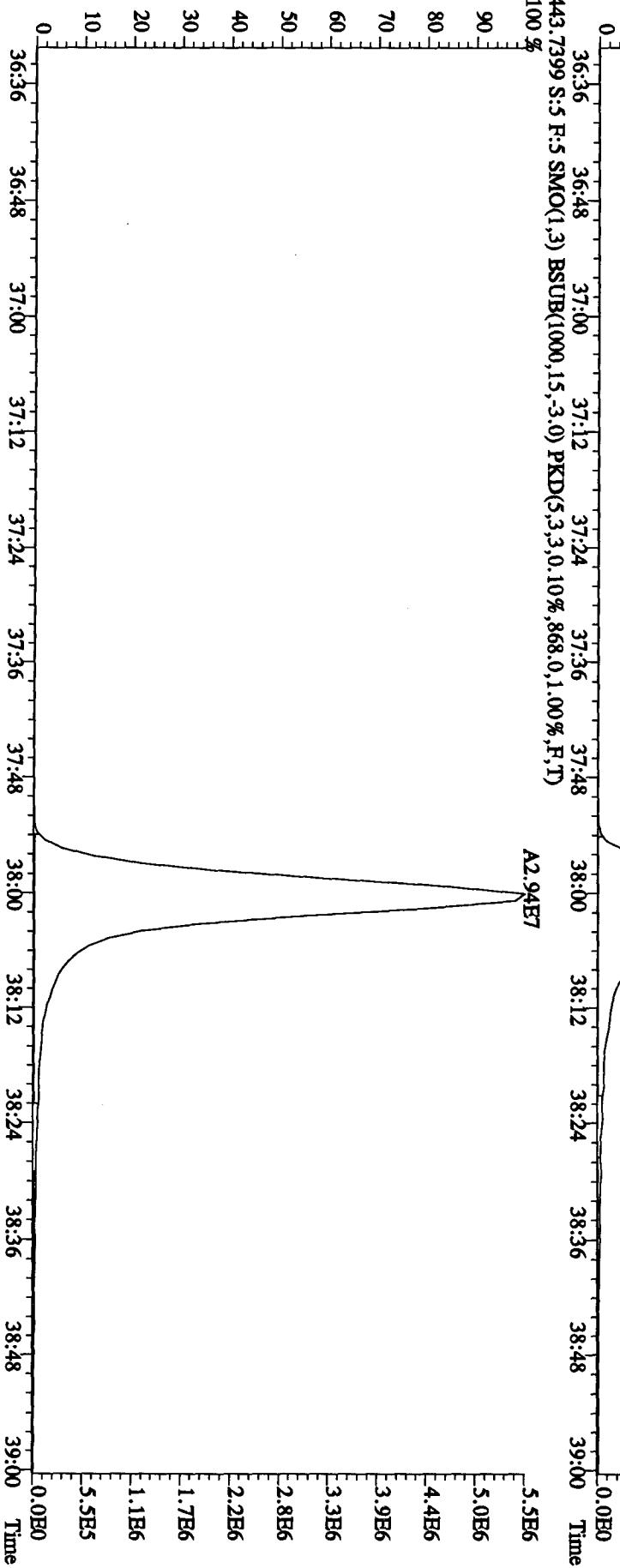
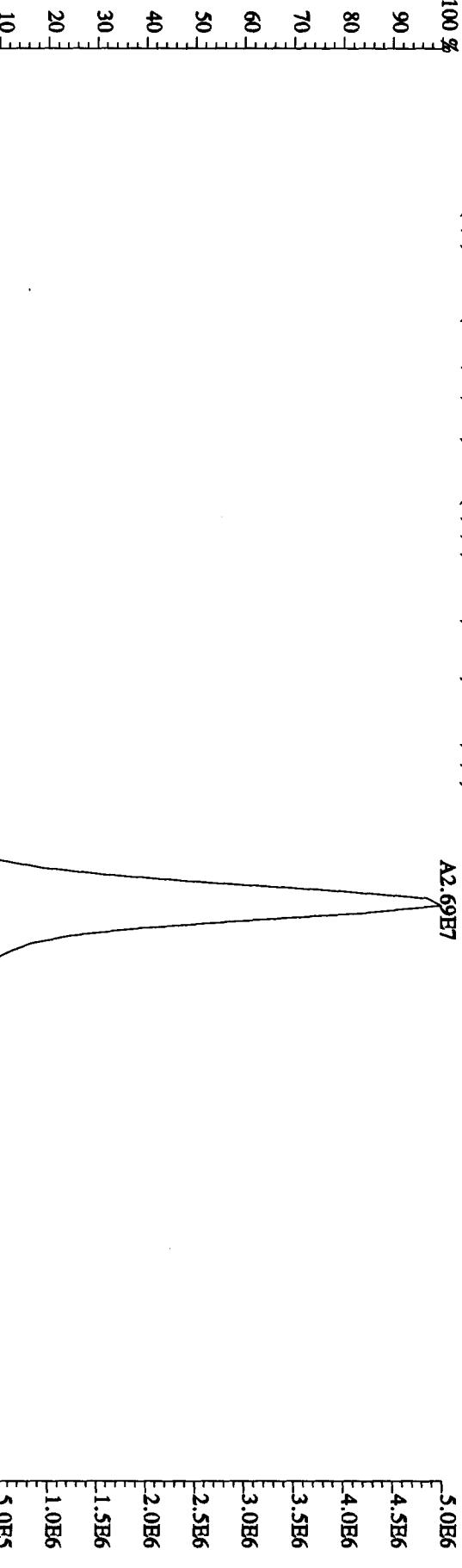
2.0E6

1.5E6

1.0E6

5.0E5

0.0E0



File:01MY104D5 #1-190 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-UltimaE

Sample#5 Text:LX3LQ-1-AC :G0D160000-253C Exp:DIOXINRHS8290A

457.377 S:5 R:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4744.0,1.00%,F,T)

100 % A2.17E7 3.9E6

80 3.1E6

60 2.3E6

40 1.5E6

20 7.7E5

0 0.0E0

36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

459.7348 S:5 R:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,636.0,1.00%,F,T)

100 % A2.44E7 4.4E6

80 3.5E6

60 2.6E6

40 1.7E6

20 8.7E5

0 0.0E0

36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

469.7779 S:5 R:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,600.0,1.00%,F,T)

100 % A4.15E7 7.5E6

80 6.0E6

60 4.5E6

40 3.0E6

20 1.5E6

0 0.0E0

36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

471.7750 S:5 R:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,80.0,1.00%,F,T)

100 % A4.65E7 8.3E6

80 6.7E6

60 5.0E6

40 3.3E6

20 1.7E6

0 0.0E0

36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

File:01MY104D5 #1-434 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-UltimaE

Sample#5 Text:LX3LQ-1.AC :G0D160000-253C Exp:DIOXINRES8290A

354.9792 S:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 % 15:20 16:05 16:32 17:03 17:35 18:07 18:33 19:00 19:41 20:11 20:55 21:23 21:54 2.4E7

80 1.9E7

60 1.4E7

40 9.6E6

20 4.8E6

0 0.0E0

303.9016 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7960.0,1.00%,F,T)

A4.90E6

100 % 1.0E6

80 8.1E5

60 6.1E5

40 4.1E5

20 2.0E5

0 0.0E0

305.8987 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2080.0,1.00%,F,T)

A6.12E6

100 % 1.3E6

80 1.0E6

60 7.7E5

40 5.1E5

20 2.6E5

0 0.0E0

375.8364 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,120.0,1.00%,F,T)

16.05

100 % 2.4E3

80 1.9E3

60 1.5E3

40 9.7E2

20 4.9E2

0 0.0E0

409.7974 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,160.0,1.00%,F,T)

100 % 3.7E3

80 2.9E3

60 2.2E3

40 1.5E3

20 7.4E2

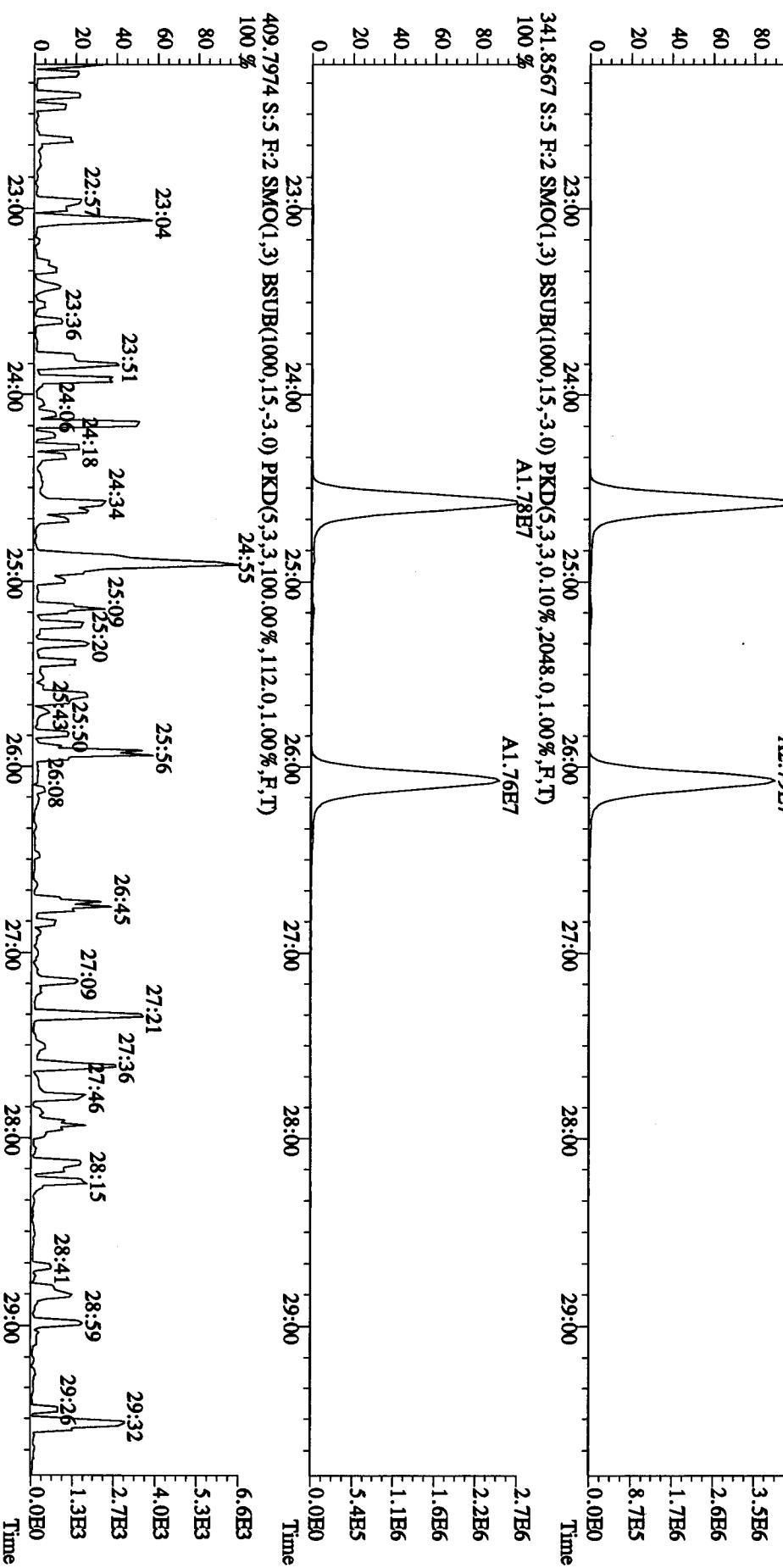
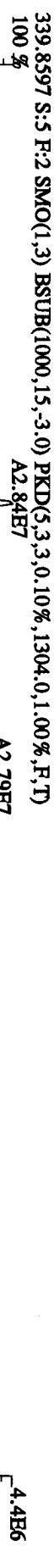
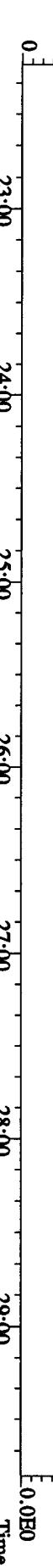
0 0.0E0

16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time

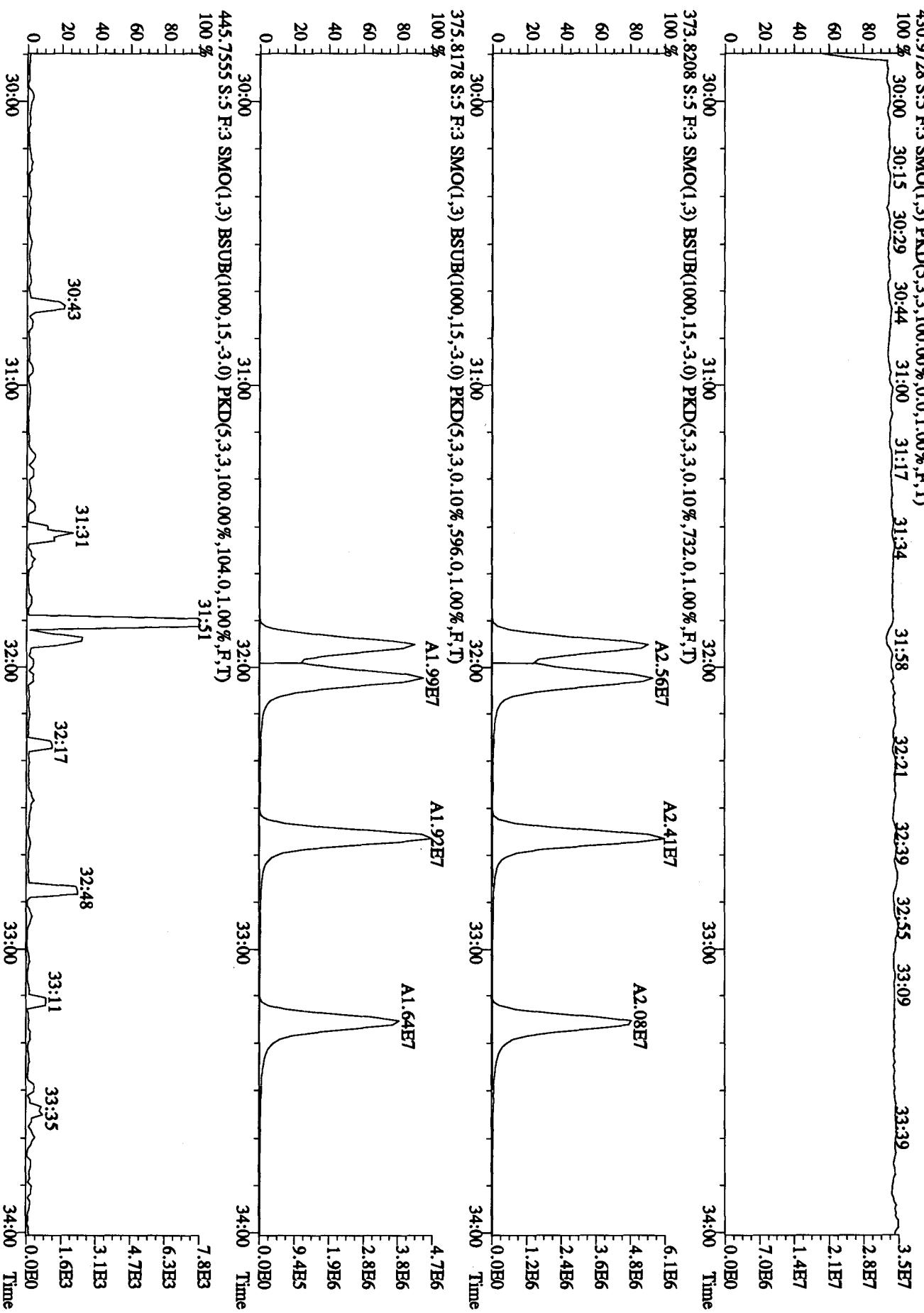
Sample:45 Text:LX3LQ-1-AC :G0D160000-253C Exp:DIOXINRES8290A

354.9792 S:5 F:2 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)

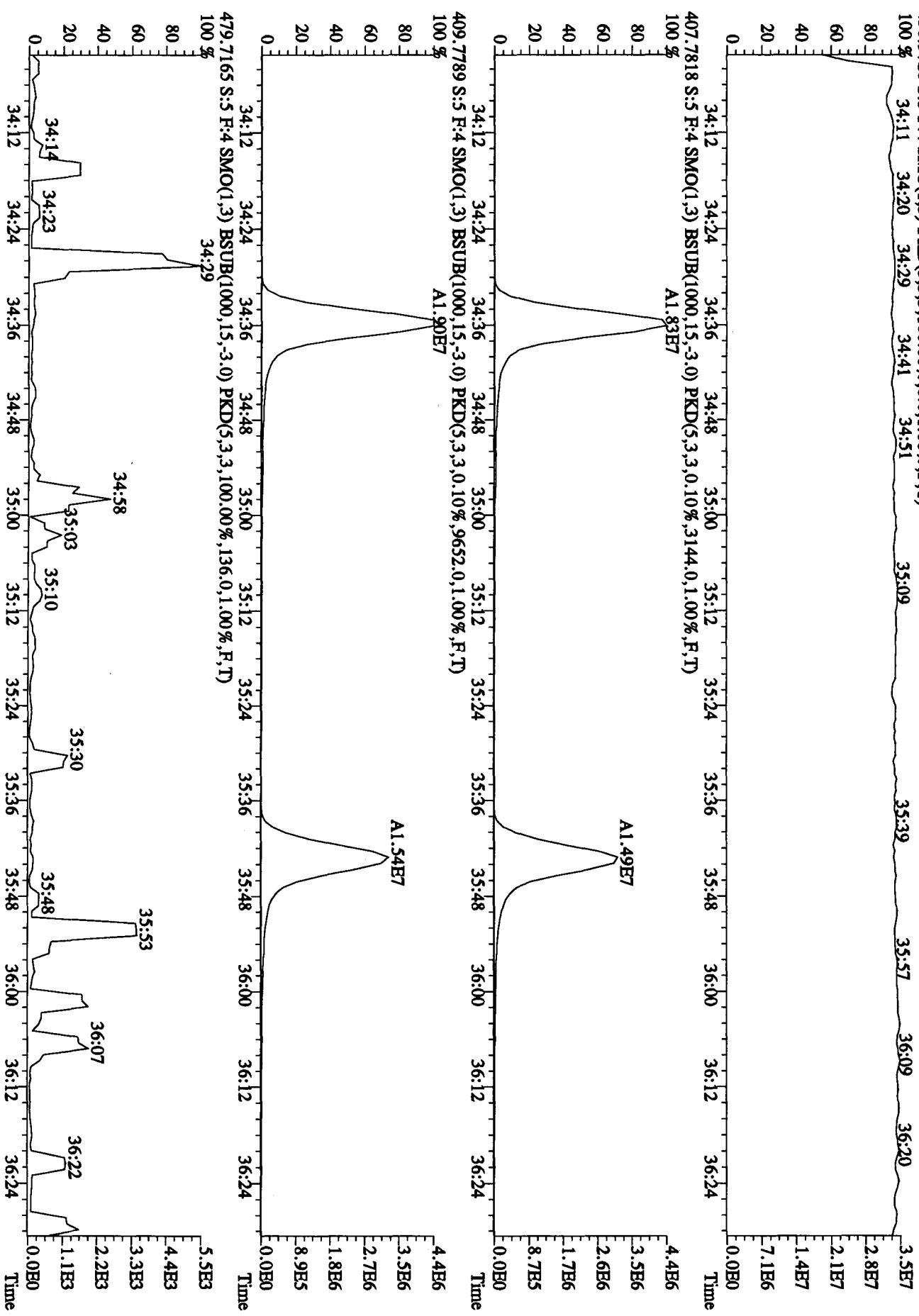
100 % 22:29 23:02 23:38 24:06 24:36 25:12 25:47 26:14 26:58 27:29 28:05 28:44 29:09 29:41 2.5E7
80 2.0E7
60 1.5E7
40 9.9E6
20 5.0E6
0 0.0E0



File:01MY104D5 #1-317 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SR Autospec-UltimaE
 Sample#5 Text:LX3LQ-1-AC :G0D16000-253C Exp:DIOXINRES8290A



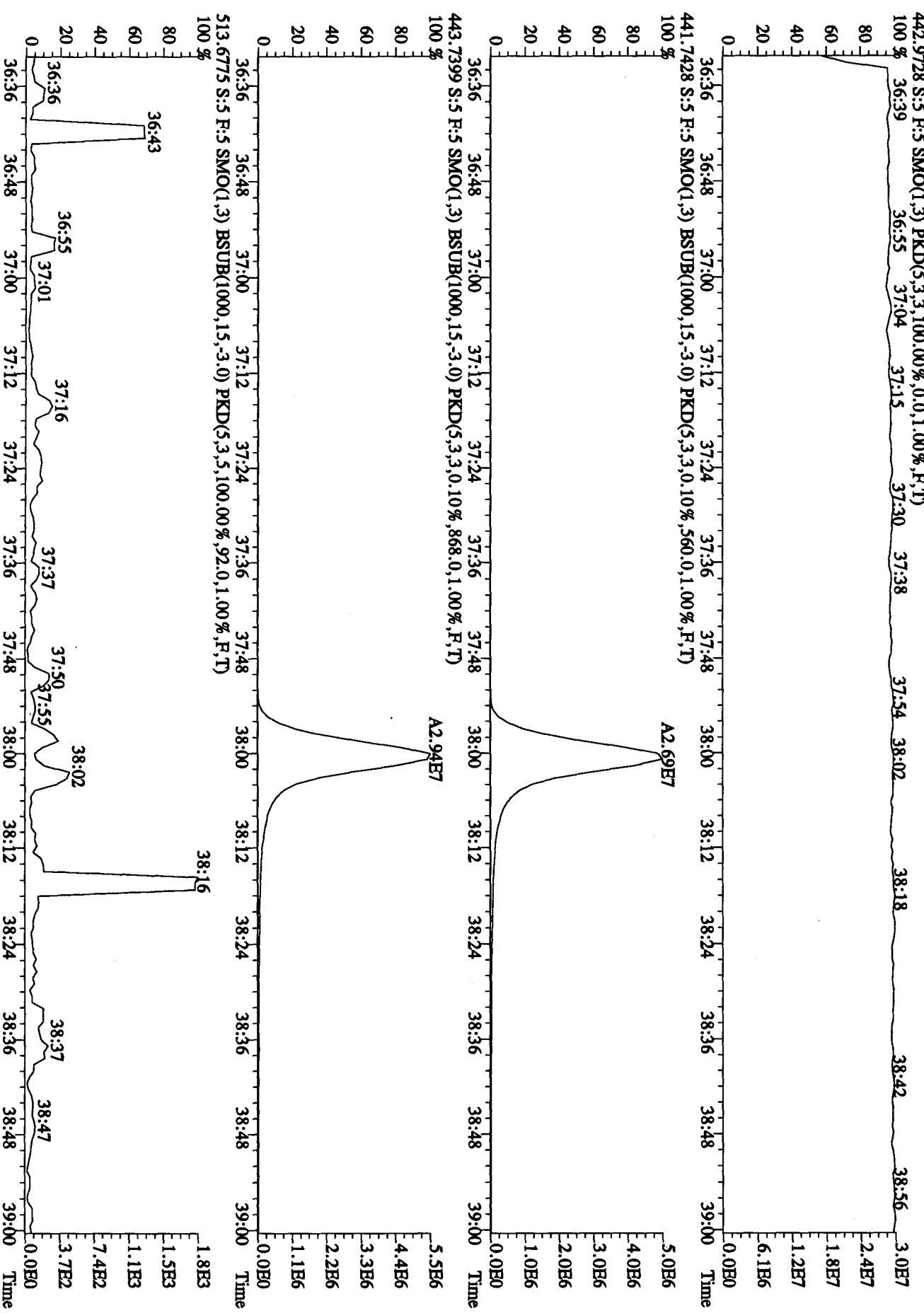
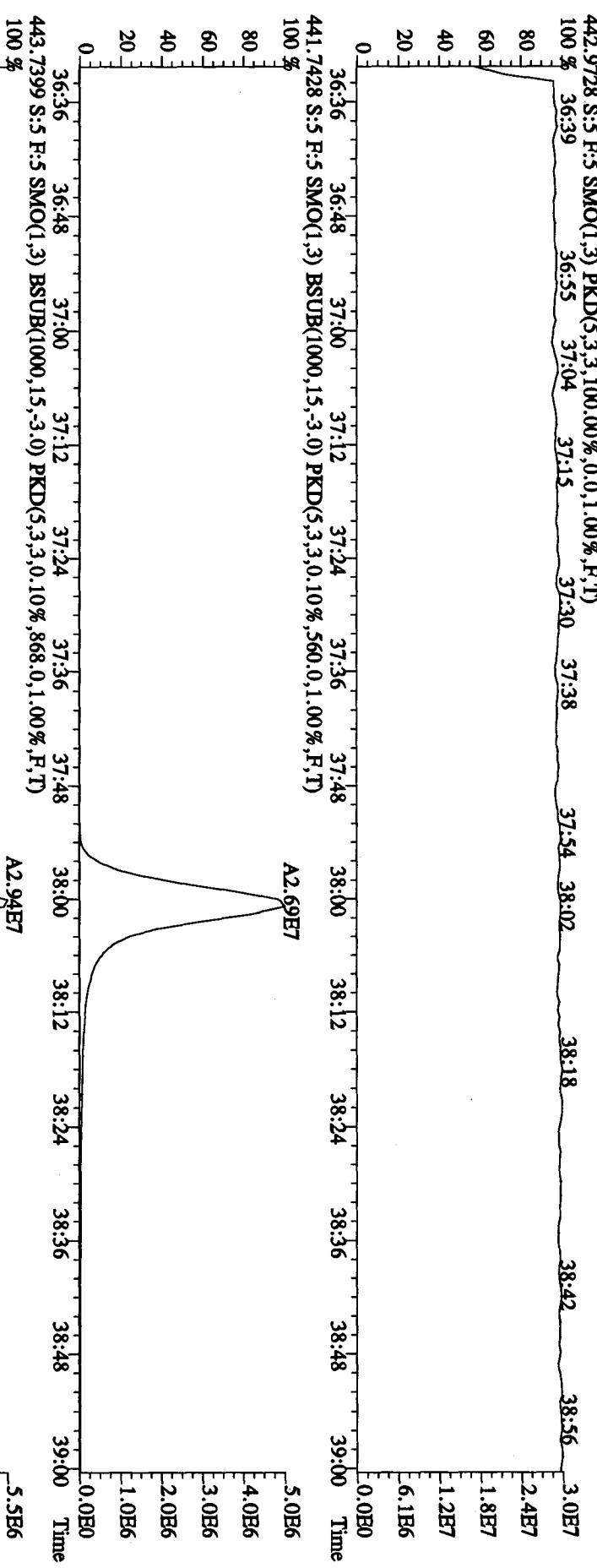
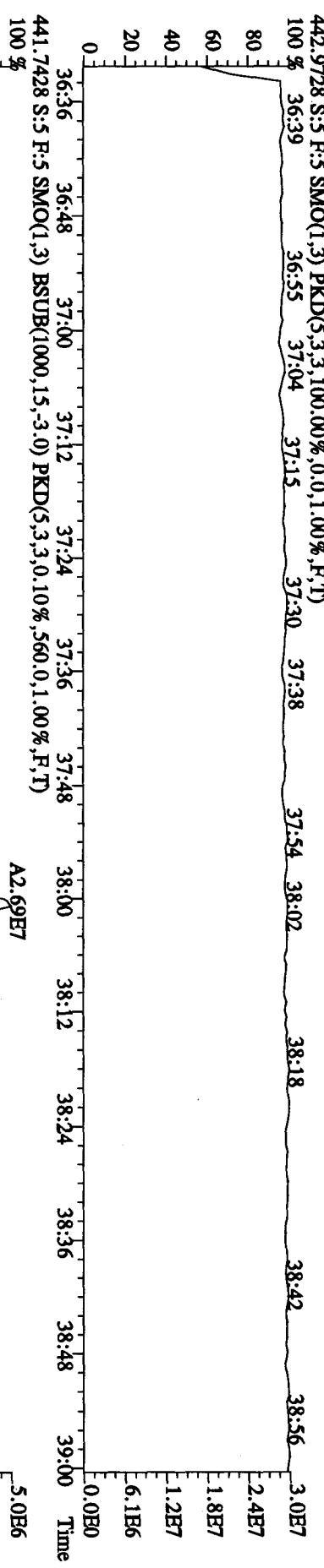
File:01MY104DS #1-198 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#5 Text:1LX3LO-1-AC :G0D160000-253C Exp:DIOXINRES8290A
 430.9728 S:5 F:4 SMO(1,3) PKD(5,3,3,100.00%,0,0.1,0.0%,F,T)
 100 % 34:11 34:20 34:29 34:41 34:51 35:09



File:01MY104DS #1-190 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#5 Tex:ILX31Q-1-AC :G0D16000-253C Exp:DIOXINRES8290A
 442.9728 S:5 F:5 SMO(1,3) PKD(5,3,3,100.00%,0,0,1,00%,F,T)
 100 % 36.39 36.55 37.04 37.15 37.30 37.38 37.54 38.02 38.18 38.42 38.56 3.0E7
 80
 60
 40
 20
 0



441.7428 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,560.0,1,00%,F,T)
 100 %
 80
 60
 40
 20
 0



Run text: LXWV7-1-AA Sample text: LXWV7-1-AA :G0D130519-1
 Run #9 Filename: 01MY104D5 S: 6 I: 1 Results: 01MY104D58290A
 Acquired: 1-MAY-10 12:28:29 Processed: 2-MAY-10 09:22:48
 Run: 01MY104D5 Analyte: 8290AHRS Cal: 8290A0412104D5
 Sample size: 1.03 L

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	103030000	0.79 y	19:30	-	74.9331	-	-	n
13C-2,3,7,8-TCDF	206725100	0.80 y	18:55	1.52	1276.6291	0.5006	66.0	n
2,3,7,8-TCDF	57504	1.12 n	18:55	0.95	0.5694 JQ	0.3617	-	n
Total TCDF	71839	0.48 n	18:07	0.95	0.7114	0.3617	-	n
13C-2,3,7,8-TCDD	151846800	0.78 y	19:41	0.95	1501.5877	1.2272	77.6	n
2,3,7,8-TCDD	11985	0.10 n	19:43	1.02	0.1496	0.3459	-	n
Total TCDD	18108	7.62 n	18:54	1.02	0.2260	0.3459	-	n
37Cl-2,3,7,8-TCDD	156688400	1.00 y	19:42	2.26	650.7357	0.1512	84.1	n
13C-1,2,3,7,8-PeCDF	159212700	1.57 y	24:34	1.05	1423.5734	0.9422	73.6	n
1,2,3,7,8-PeCDF	82544	1.38 y	24:35	1.04	0.9603 J	0.3228	-	n
2,3,4,7,8-PeCDF	54347	2.15 n	26:04	0.98	0.6726 JQ B	0.3433	-	n
Total F2 PeCDF	364642	2.23 n	23:03	1.01	4.3574	0.3327	-	n
Total F1 PeCDF	59759	0.41 n	20:15	1.01	0.7167	0.3868	-	n
13C-1,2,3,7,8-PeCDD	113506600	1.57 y	26:52	0.67	1589.8961	0.3771	82.2	n
1,2,3,7,8-PeCDD	8790	0.65 n	26:52	0.98	0.1526	0.4452	-	n
Total PeCDD	76440	4.27 n	22:27	0.98	1.3272	0.4452	-	n
13C-1,2,3,7,8,9-HxCDD	73258100	1.24 y	33:05	-	68.9816	-	-	n
13C-1,2,3,4,7,8-HxCDF	114081700	0.52 y	31:55	1.02	1470.2270	2.8321	76.0	n
1,2,3,4,7,8-HxCDF	77026	1.65 n	31:56	1.21	1.0775 JQ B	0.2808	-	n
1,2,3,6,7,8-HxCDF	76041	1.11 y	32:02	1.34	0.9606 J B	0.2536	-	n
2,3,4,6,7,8-HxCDF	71853	1.44 n	32:36	1.22	0.9972 JQ B	0.2786	-	n
1,2,3,7,8,9-HxCDF	64886	0.56 n	33:16	1.09	1.0075 JQ B	0.3117	-	n
Total HxCDF	579479	0.87 n	30:32	1.22	8.0786	0.2797	-	n
13C-1,2,3,6,7,8-HxCDD	100766400	1.13 y	32:49	0.81	1649.0721	0.2689	85.2	n
1,2,3,4,7,8-HxCDD	40509	1.27 y	32:45	1.01	0.7727 J	0.3997	-	n
1,2,3,6,7,8-HxCDD	43041	1.58 n	32:50	1.11	0.7421 J Q	0.3613	-	n
1,2,3,7,8,9-HxCDD	51930	1.22 y	33:06	1.21	0.8249 J B	0.3329	-	n
Total HxCDD	212514	1.10 y	31:55	1.11	3.6726	0.3626	-	n
13C-1,2,3,4,6,7,8-HpCDF	98899900	0.43 y	34:36	0.86	1514.3464	6.0258	78.3	n
1,2,3,4,6,7,8-HpCDF	140866	1.16 y	34:36	1.31	2.1046 J B	0.2645	-	n
1,2,3,4,7,8,9-HpCDF	77469	0.94 y	35:43	1.03	1.4780 J B	0.3378	-	n
Total HpCDF	398639	1.16 y	34:36	1.17	6.6040	0.2967	-	n
13C-1,2,3,4,6,7,8-HpCDD	88667400	1.05 y	35:24	0.70	1679.0237	4.0317	86.8	n
1,2,3,4,6,7,8-HpCDD	205383	1.20 n	35:24	1.07	4.1820 J Q B	0.3881	-	n
Total HpCDD	354102	3.36 n	34:35	1.07	7.2102	0.3881	-	n
13C-OCDD	129037000	0.92 y	37:54	0.53	3207.2831	0.0399	82.9	n
OCDF	320897	0.98 y	38:01	1.45	6.6593 J	0.5866	-	n
OCDD	1440924	0.87 y	37:55	1.17	37.0582 J B	0.8166	-	n

File:01MY104D5 #1-435 Acq: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#6 Text:LXWV7-1-AA :G0D130519-1 Exp:DIOXINRES8290A
 303,916 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,616,0,1.00%,F,T)
 100 % A3.64E4

7.0E3

5.6E3

4.2E3

2.8E3

1.4E3

0.0E0

Time

A4.17E3 A5.36E3 A9.34E3 A1.19E4 A1.39E4 A1.59E3 A3.61E3

7.8E3

6.3E3

4.7E3

3.1E3

1.6E3

0.0E0

Time

315,9419 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1908,0,1.00%,F,T)
 100 % A9.16E7

1.9E7

1.5E7

1.1E7

7.6E6

3.8E6

0.0E0

Time

317,9389 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3668,0,1.00%,F,T)
 100 % A1.15E8

2.4E7

1.9E7

1.4E7

9.5E6

4.8E6

0.0E0

Time

File:01MY104D5 #1-435 Acq: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Tex:IXWV7,-,AA :G0D130519-1 Exp:DIOXINRES8290A
319.8965 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,788.0,1.00%,F,T)

321.8936 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1036.0,1.00%,F,T)

A2.63E4

-5.7E3
-4.5E3
-3.4E3
-2.3E3

0
20
40
60
80
100 %

Time

A3.78E3

A4.24E3

A2.64E3

A5.27E3

A5.21E3

A6.99E3

1.1E3

2.3E3

0.0E0

9.2E3

7.4E3

5.5E3

3.7E3

1.8E3

1.0E0

2.0E0

4.0E0

6.0E0

8.0E0

1.0E0

1.2E0

1.4E0

1.6E0

1.8E0

2.0E0

2.2E0

2.4E0

2.6E0

2.8E0

3.0E0

3.2E0

3.4E0

3.6E0

3.8E0

4.0E0

4.2E0

4.4E0

4.6E0

4.8E0

5.0E0

5.2E0

5.4E0

5.6E0

5.8E0

6.0E0

6.2E0

6.4E0

6.6E0

6.8E0

7.0E0

7.2E0

7.4E0

7.6E0

7.8E0

8.0E0

8.2E0

8.4E0

8.6E0

8.8E0

9.0E0

9.2E0

9.4E0

9.6E0

9.8E0

1.00E0

1.10E0

1.20E0

1.30E0

1.40E0

1.50E0

1.60E0

1.70E0

1.80E0

1.90E0

2.00E0

2.10E0

2.20E0

2.30E0

2.40E0

2.50E0

2.60E0

2.70E0

2.80E0

2.90E0

3.00E0

3.10E0

3.20E0

3.30E0

3.40E0

3.50E0

3.60E0

3.70E0

3.80E0

3.90E0

4.00E0

4.10E0

4.20E0

4.30E0

4.40E0

4.50E0

4.60E0

4.70E0

4.80E0

4.90E0

5.00E0

5.10E0

5.20E0

5.30E0

5.40E0

5.50E0

5.60E0

5.70E0

5.80E0

5.90E0

6.00E0

6.10E0

6.20E0

6.30E0

6.40E0

6.50E0

6.60E0

6.70E0

6.80E0

6.90E0

7.00E0

7.10E0

7.20E0

7.30E0

7.40E0

7.50E0

7.60E0

7.70E0

7.80E0

7.90E0

8.00E0

8.10E0

8.20E0

8.30E0

8.40E0

8.50E0

8.60E0

8.70E0

8.80E0

8.90E0

9.00E0

9.10E0

9.20E0

9.30E0

9.40E0

9.50E0

9.60E0

9.70E0

9.80E0

9.90E0

1.00E0

1.10E0

1.20E0

1.30E0

1.40E0

1.50E0

1.60E0

1.70E0

1.80E0

1.90E0

2.00E0

2.10E0

2.20E0

2.30E0

2.40E0

2.50E0

2.60E0

2.70E0

2.80E0

2.90E0

3.00E0

3.10E0

3.20E0

3.30E0

3.40E0

3.50E0

3.60E0

3.70E0

3.80E0

3.90E0

4.00E0

4.10E0

4.20E0

4.30E0

4.40E0

4.50E0

4.60E0

4.70E0

4.80E0

4.90E0

5.00E0

5.10E0

5.20E0

5.30E0

5.40E0

5.50E0

5.60E0

5.70E0

5.80E0

5.90E0

6.00E0

6.10E0

6.20E0

6.30E0

6.40E0

6.50E0

6.60E0

6.70E0

6.80E0

6.90E0

7.00E0

7.10E0

7.20E0

7.30E0

7.40E0

7.50E0

7.60E0

7.70E0

7.80E0

7.90E0

8.00E0

8.10E0

8.20E0

8.30E0

8.40E0

8.50E0

8.60E0

8.70E0

8.80E0

8.90E0

9.00E0

9.10E0

9.20E0

9.30E0

9.40E0

9.50E0

9.60E0

9.70E0

9.80E0

9.90E0

1.00E0

1.10E0

1.20E0

1.30E0

1.40E0

1.50E0

1.60E0

1.70E0

1.80E0

1.90E0

2.00E0

2.10E0

2.20E0

2.30E0

2.40E0

2.50E0

2.60E0

2.70E0

2.80E0

2.90E0

3.00E0

3.10E0

3.20E0

3.30E0

3.40E0

3.50E0

3.60E0

3.70E0

3.80E0

3.90E0

4.00E0

4.10E0

4.20E0

4.30E0

File:01MY104D5 #1-435 Acq: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#6 Text:LXWV7-1-AA :G0D130519-1 Exp:DIOXINRES8290A
 327.8847 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1252.0,1.00%,R,T)

A7.83E7

1.5E7

1.2E7

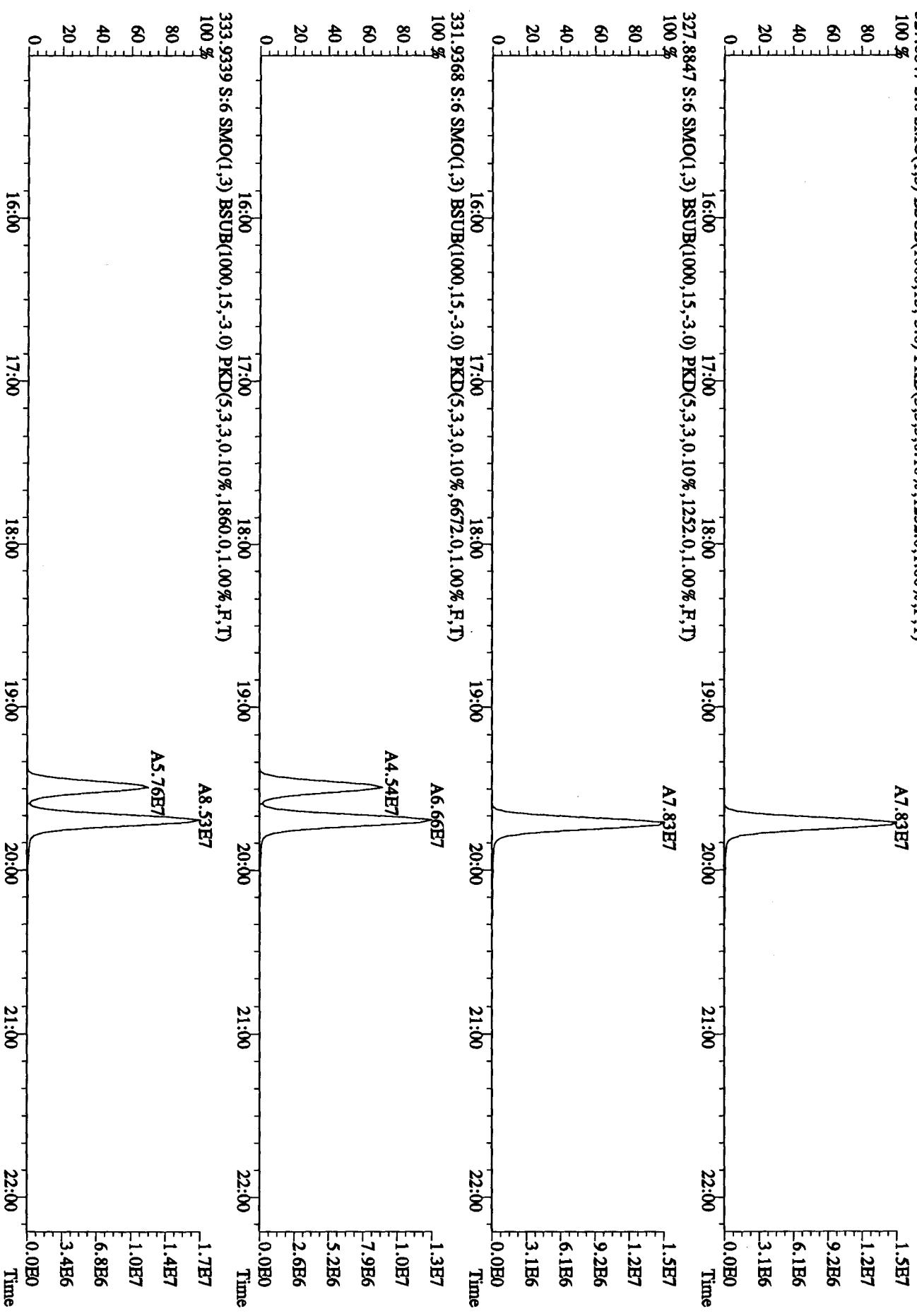
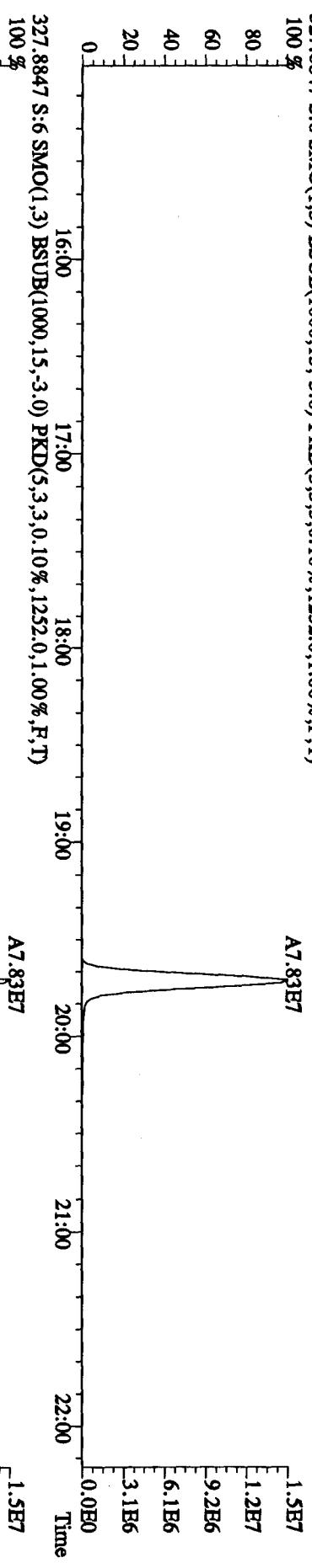
9.2E6

6.1E6

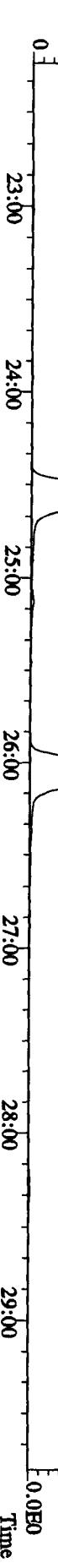
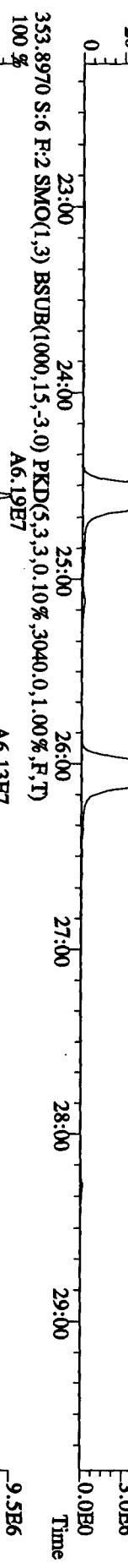
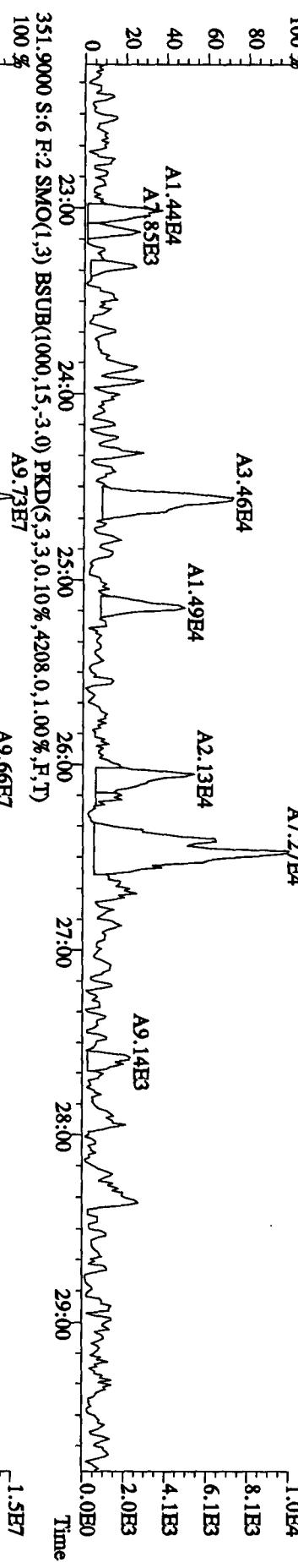
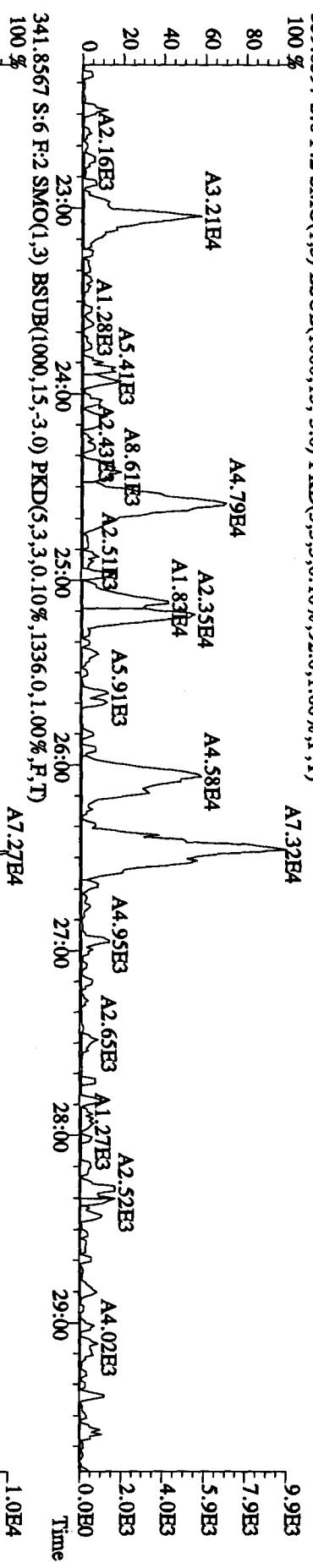
3.1E6

0.0E0

Time



File:01MY104D5 #1-604 Acq: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 Text: LXWV7-1-AA :G0D130519-1 Exp:DIOXINRES8290A
 339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,92,0,1.00%,F,T)
 A7.32E4



File:01MY104DS #1-435 Acq: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 Text:LXWV7-1-AA :G0D130519-1 Exp:DIOXINRES8290A
 339.8597 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,436,0,1.00%,F,T)
 100 %
 90
 80
 70
 60
 50
 40
 30
 20
 10
 0

A3.19E4 6.6E3

5.9E3 5.3E3

4.6E3 4.0E3

3.9E3 3.3E3

3.3E3 2.7E3

2.6E3 2.0E3

2.0E3 1.4E3

1.3E3 0.7E2

0.6E2 0.0E0



341.8567 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1224.0,1.00%,F,T)
 A2.29E4

A2.06E4 5.8E3

5.2E3 4.6E3

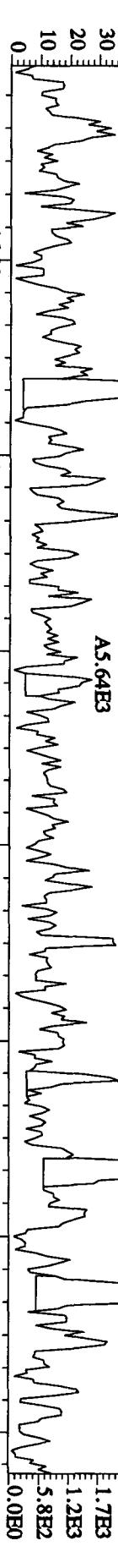
4.1E3 3.5E3

2.9E3 2.3E3

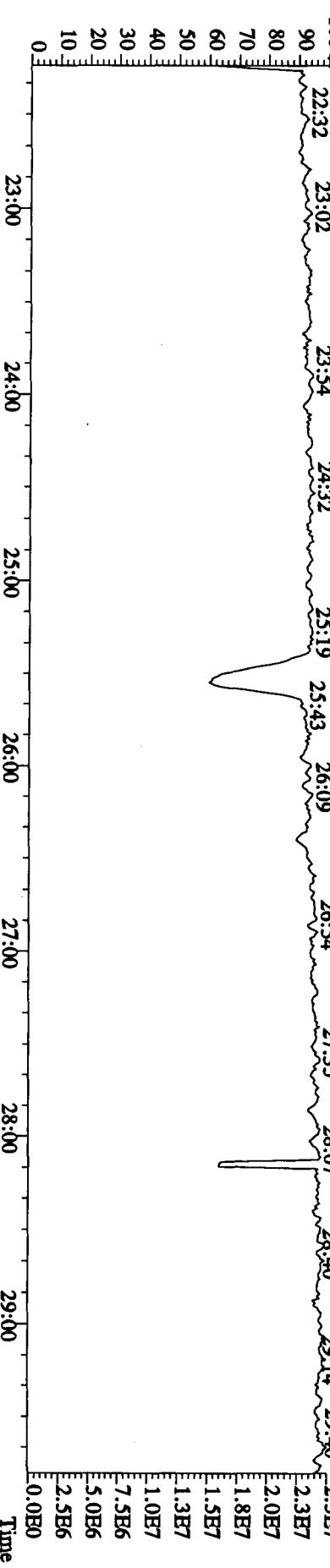
1.7E3 1.2E3

1.2E3 5.8E2

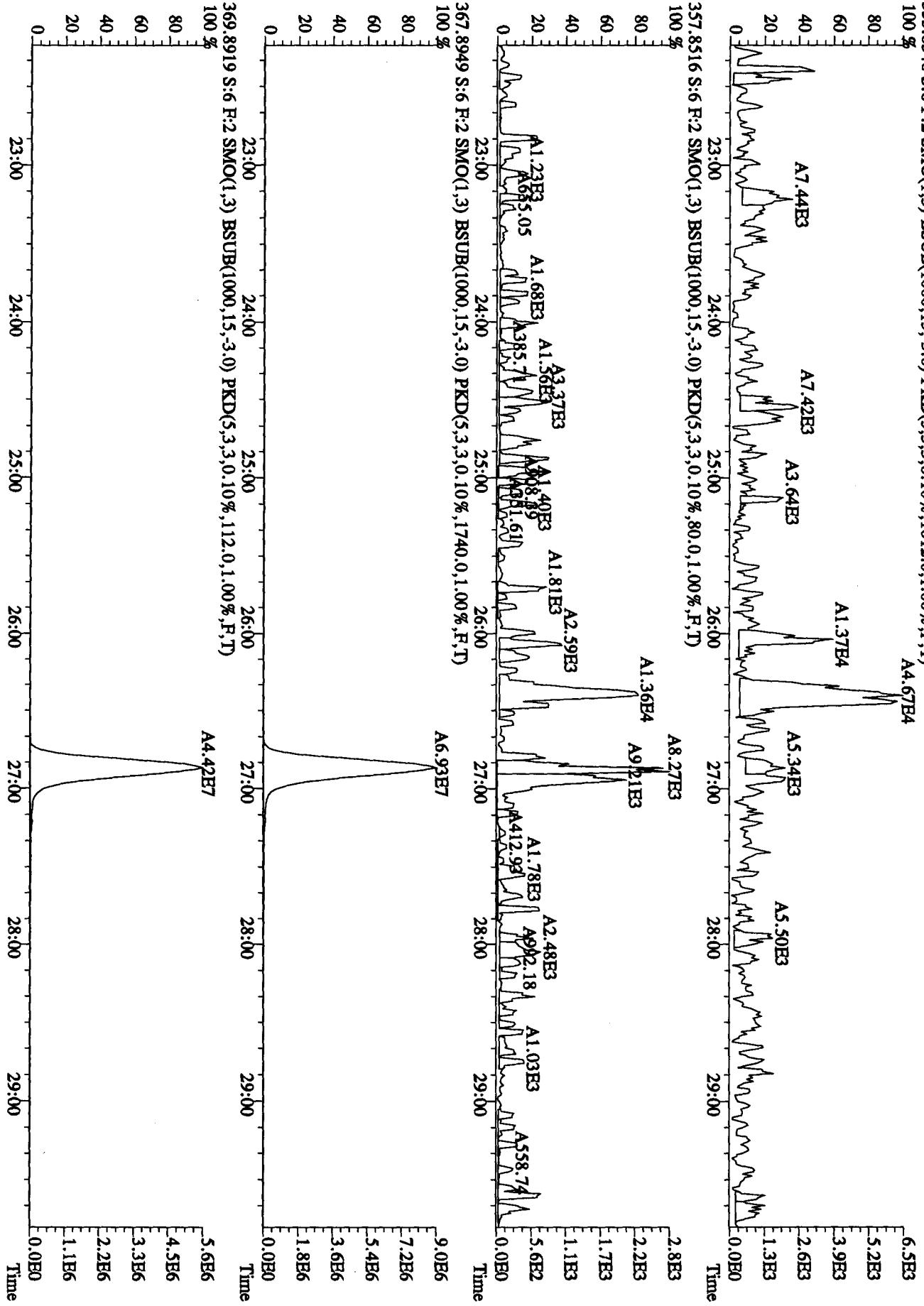
0.0E0 0.0E0



354.9792 S:6 R:2 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)
 100 %
 90
 80
 70
 60
 50
 40
 30
 20
 10
 0



File:01MY104D5 #1-604 Acq: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 Text:LXWV7-1-AA :G0D130519-1 Exp:DIOXINRES8290A
 355.8546 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1012.0,1.00%,F,T)
 A.4.67E4



File:01MY104D5 #1-317 Acq: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#6 Text:LXWV7-1-AA :G0D130519-1 Exp:DIOXINRES8290A
 373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,948.0,1.00%,F,T)
 A7.20E4 A5.67E4 A3.99E4 A3.59E4
 1.3E4

100 %
 80
 60
 40
 20
 0
 30:00 31:00 32:00 33:00 34:00 Time
 375.8178 S:6 F:3 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,628.0,1.00%,F,T)
 A4.96E4 A3.00E3 A5.86E3
 7.9E3
 5.2E3
 2.6E3
 0.0E0

100 %
 80
 60
 40
 20
 0
 30:00 31:00 32:00 33:00 34:00 Time
 383.8639 S:6 F:3 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,15704.0,1.00%,F,T)
 A4.86E7 A3.44E4 A3.61E4 A3.21E4 A6.44E4
 9.0E3
 6.8E3
 4.5E3
 2.3E3
 0.0E0
 1.1E4

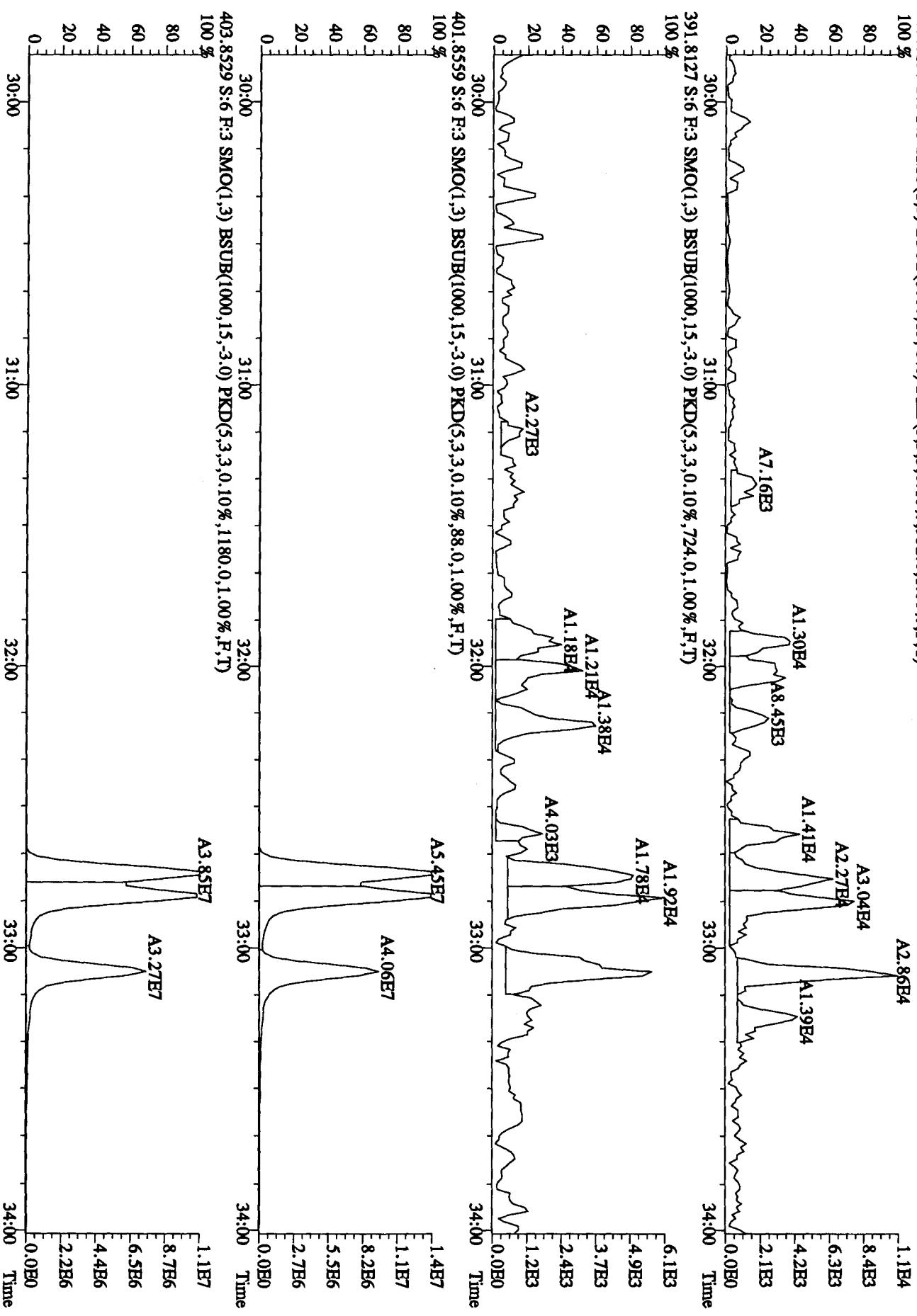
100 %
 80
 60
 40
 20
 0
 30:00 31:00 32:00 33:00 34:00 Time
 385.8610 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1256.0,1.00%,F,T)
 A9.20E7 A3.90E7 A4.29E7 A3.78E7 A7.51E7
 2.1E7
 1.7E7
 1.3E7
 8.5E6
 4.3E6
 0.0E0
 30:00 31:00 32:00 33:00 34:00 Time

100 %
 80
 60
 40
 20
 0
 30:00 31:00 32:00 33:00 34:00 Time

File:01MY104D5 #1-317 Acq: 1-MAY-2010 12:28:29 GC El+ Voltage SIR Autospec-UltimaE

Sample#6 Text:LXWV-1-AA :5GDI30519-1 BXp:D10XINRES829

卷一百一十一



File:01MY104D5 #1-198 Acq: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-UltimaE

Sample#6 Text:LXWV7-1-AA :G0D130519-1

Exp:DIOXINRES8290A

407.7818 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,824.0,1.00%,F,T)

100% A9.26E4

2.2E4

1.8E4

1.4E4

1.0E4

8.8E3

7.4E3

6.0E6

4.5E6

3.0E6

1.5E6

0.0E0

A7.57E4

A3.76B4

A4.06E3

A4.76E3

A7.99E3

A4.32E3

A4.36E3

A3.80E3

A6.51E4

A3.99E4

A2.38E7

409.7789 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,648.0,1.00%,F,T)

A7.93E4

2.1E4

1.7E4

1.3E4

8.6E3

4.3E3

0.0E0

A6.51E4

A3.99E4

A2.38E7

417.8253 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16884.0,1.00%,F,T)

A2.99E7

7.5E6

6.0E6

4.5E6

3.0E6

1.5E6

0.0E0

A3.80E3

A4.32E3

A4.36E3

A3.80E3

A6.51E4

A3.99E4

A2.38E7

419.8220 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13488.0,1.00%,F,T)

A6.90E7

1.7E7

1.4E7

1.0E7

6.8E6

3.4E6

0.0E0

34:12

34:24

34:36

35:00

35:12

35:24

35:36

35:48

36:00

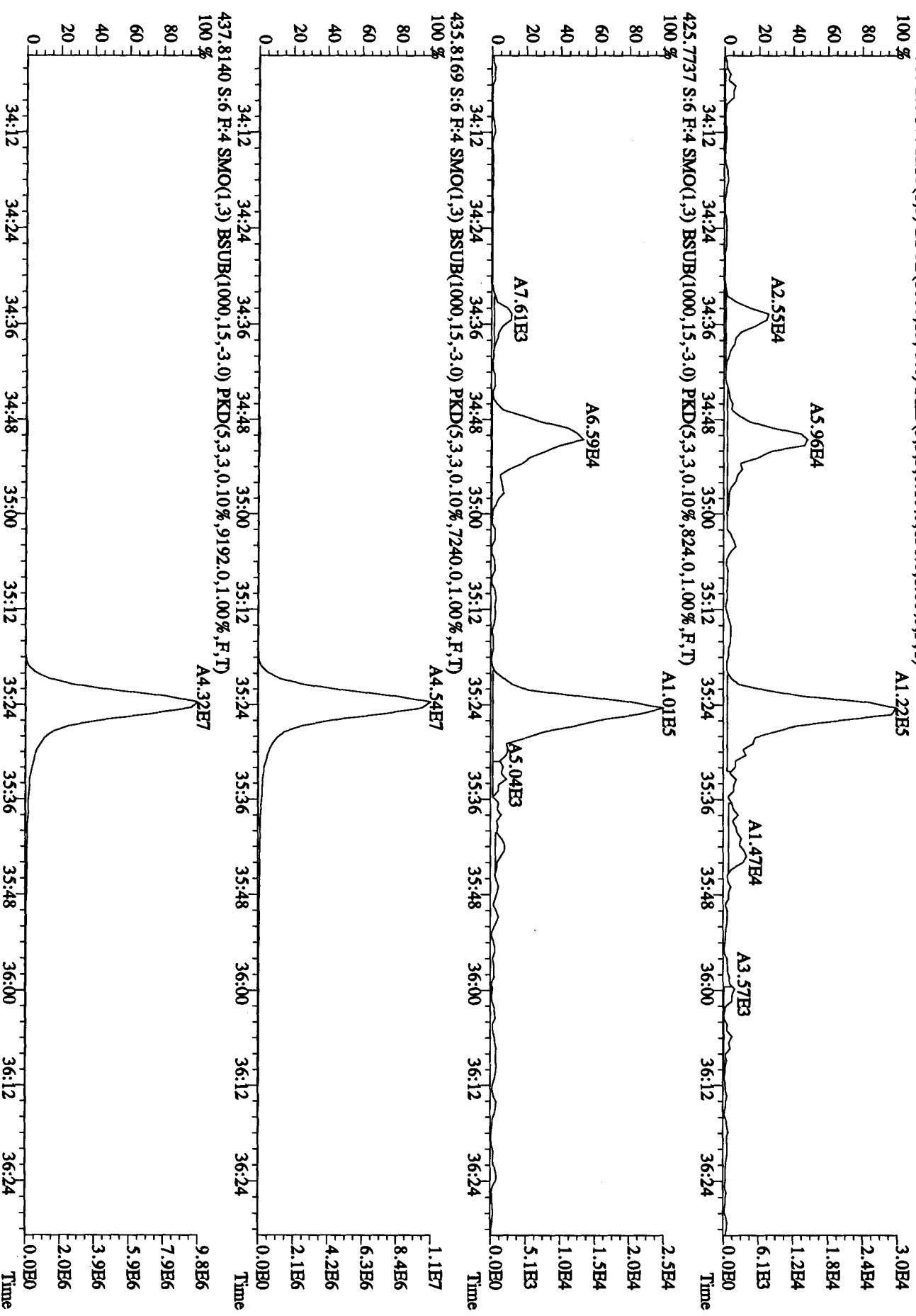
36:12

36:24

Time

File:01MY104DS #1-198 Acq: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#: Test: XWVZ-1 AA .G01130519-1 Err: D00XTNPHS8290A

423.7766 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,636,0,1.00%,F,T)
100 %



File:01MY104D5 #1-190 Acq: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:LXWV7-1-AA :G0D130519-1 Exp:DIOXINRES8290A
441.7428 S:6 R:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,596.0,1.00%,F,T)
100 %

A1.58E5

3.5E4

3.1E4

2.8E4

2.4E4

2.1E4

1.7E4

1.4E4

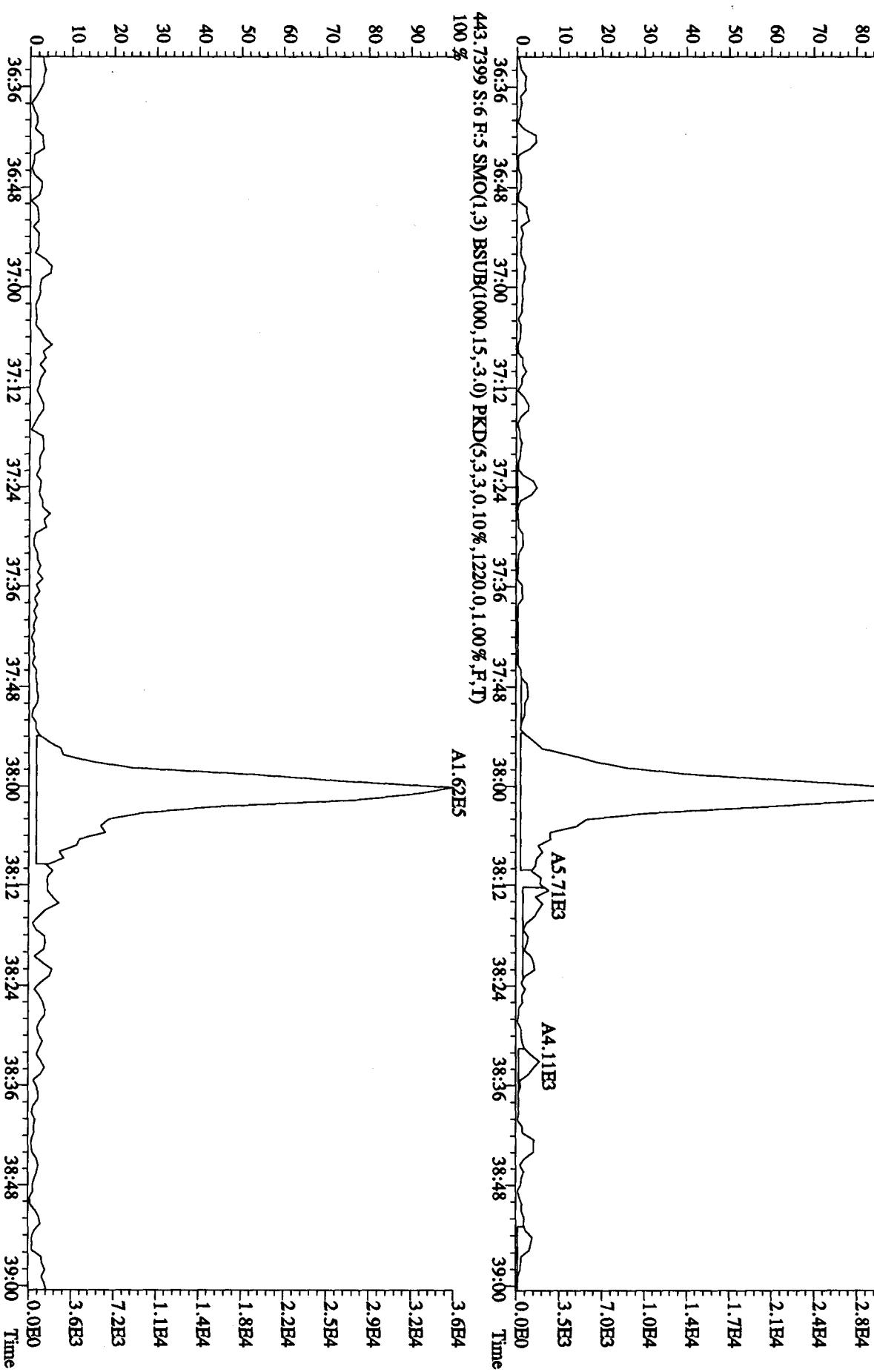
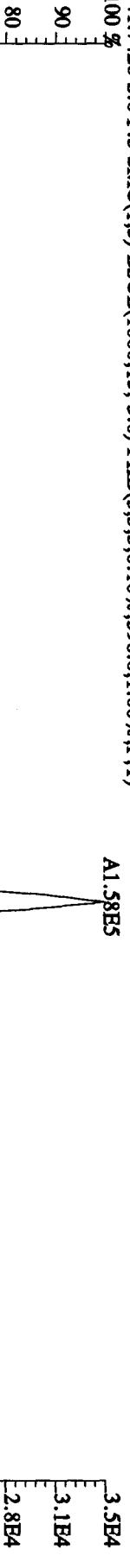
1.0E4

7.0E3

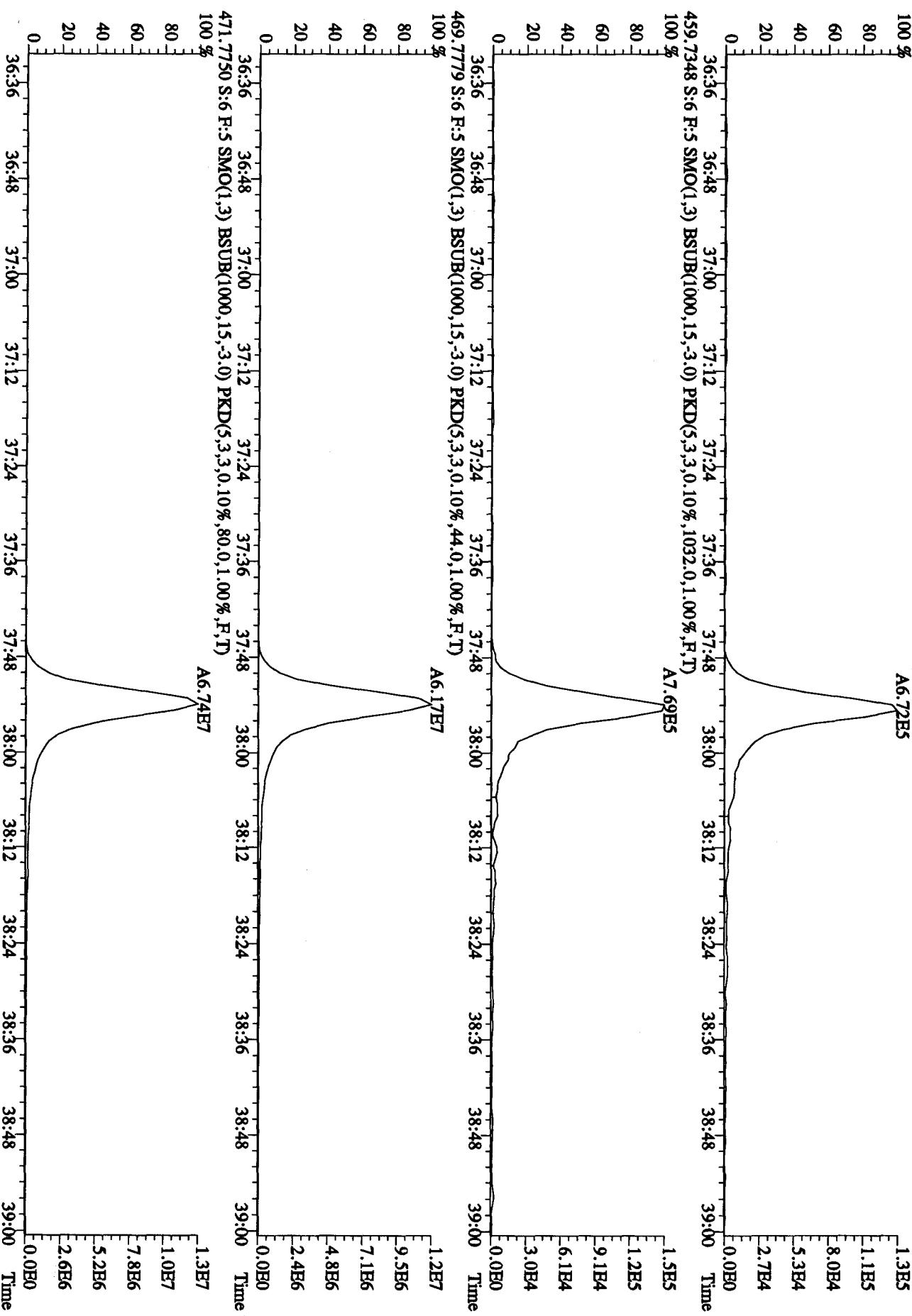
4.0E3

1.0E3

0.0E0



File:01MY104DS #1-190 Acq: 1-MAY-2010 12:28:29 GC El+ Voltage SIR Autospec-UltimaE
 Sample:6 Text:LXWV7-1-AA :G0D130519-1
 Exp:DIOXINRES8290A
 457.7377 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1008.0,1.00%,F,T)
 100 % A6.72E5



File:01MY104D5 #1-435 Acq: 1-MAY-2010 12:28:29 GC HI+ Voltage SIR Autospec-UltimaE

Sample#6 Text:LXWV7-1-AA :G0D130519-1

354.9792 S:6 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T) Exp:DIOXINRES8290A

100% 15:29 16:05 16:33 17:13 17:48 18:21 18:46 19:15 19:37 20:16 21:01 21:35 22:11 2.4E7

80 60 40 20 0

16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time

303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,616,0,1.00%,F,T) 7.0E3

100% 16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time

80 60 40 20 0

A4.17E3 A5.36E3 A6.24E3 A1.19E4 A3.64E4 5.6E3 4.2E3 2.8E3 1.4E3 0.0E0

16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time

305.8987 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1904,0,1.00%,F,T) 7.8E3

100% 16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time

80 60 40 20 0

A1.30E4 A3.25E4 6.3E3 4.7E3 3.1E3 1.6E3 0.0E0

16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time

375.8364 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,92,0,1.00%,F,T) 1.6E3

100% 16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time

80 60 40 20 0

15:15 15:45 16:13 16:25 16:53 17:33 17:59 18:15 18:35 19:04 19:32 20:05 20:45 20:50 21:30 22:02 3.6E3 2.8E3 2.1E3 1.4E3 7.1E2 0.0E0

16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time

409.7974 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,72,0,1.00%,F,T) 21:20 3.6E3

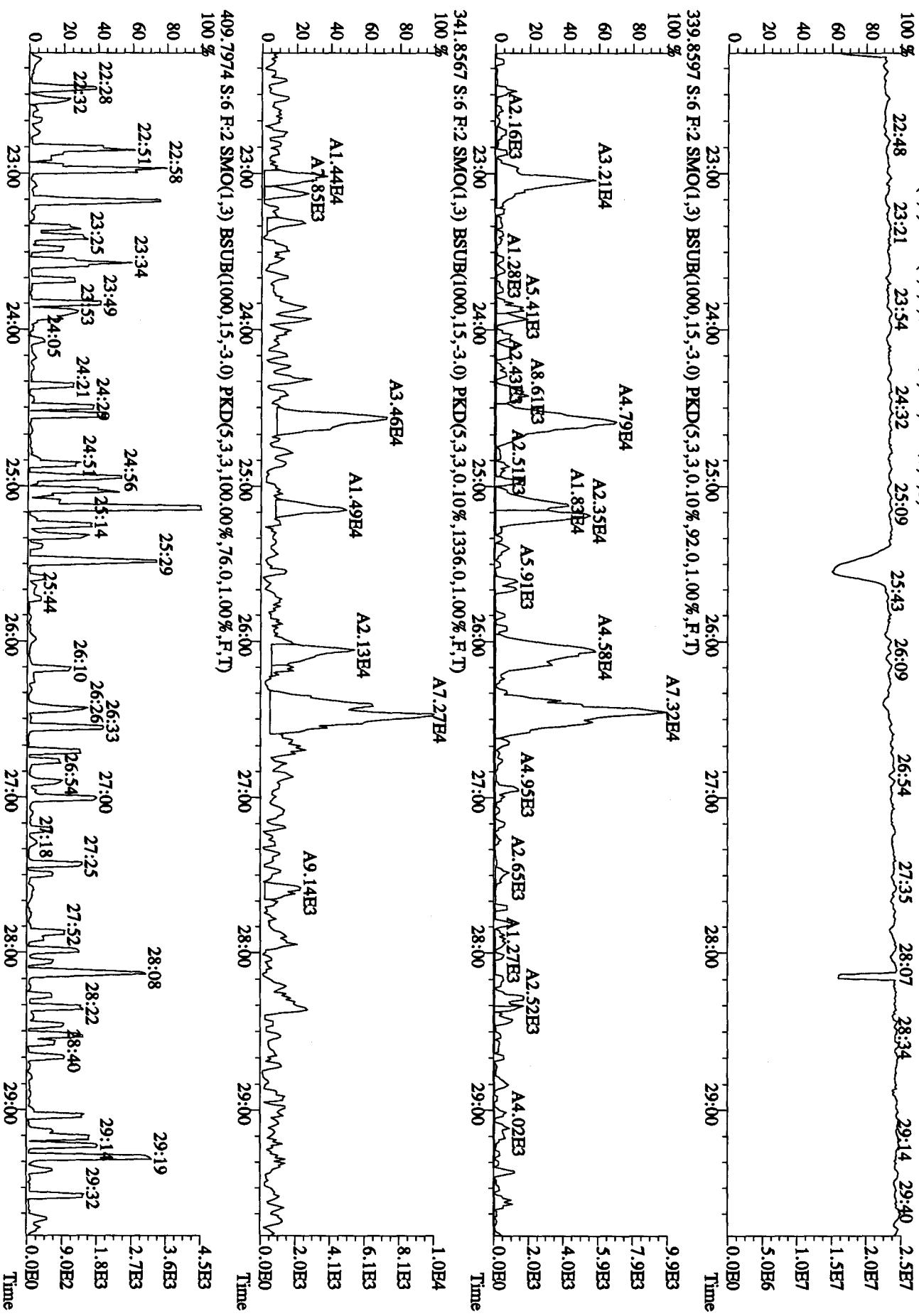
100% 15:46 15:54 16:42 17:17 18:01 18:48 19:24 19:49 20:08 20:17 20:25 20:47 20:55 21:28 21:53 22:02 0.0E0

80 60 40 20 0

15:34 15:30 16:07 16:22 16:51 17:41 18:19 18:52 20:00 21:00 22:00 Time

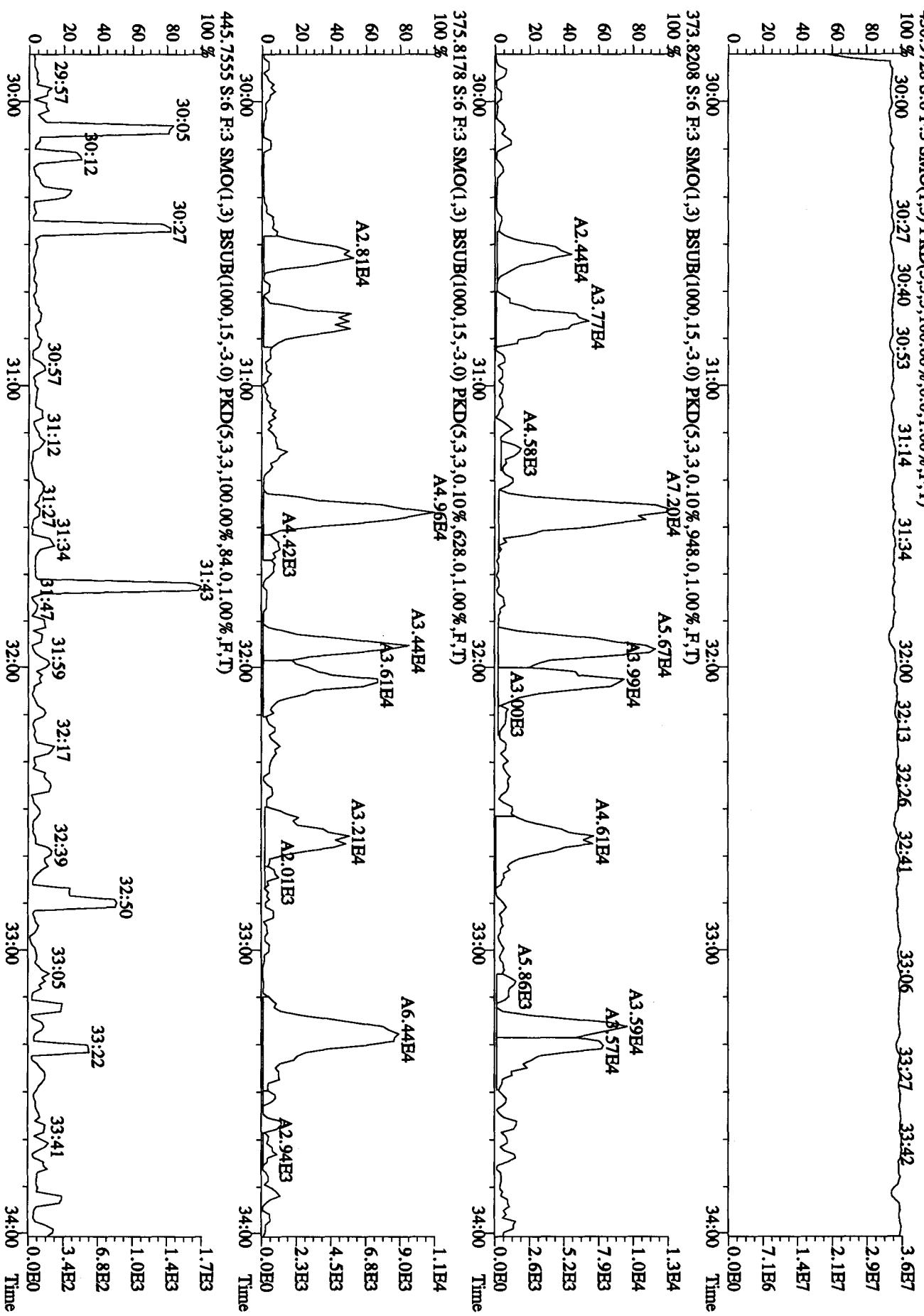
G0D130519 TestAmerica West Sacramento (916) 373 - 5600 75 of 314

File:01MY104D5 #1-604 Acq: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-UltimaR
 Sample#6 Text:LXWV7-1-AA :G0D130519-1 Exp:DIOXINRES8290A
 354.9792 S:6 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

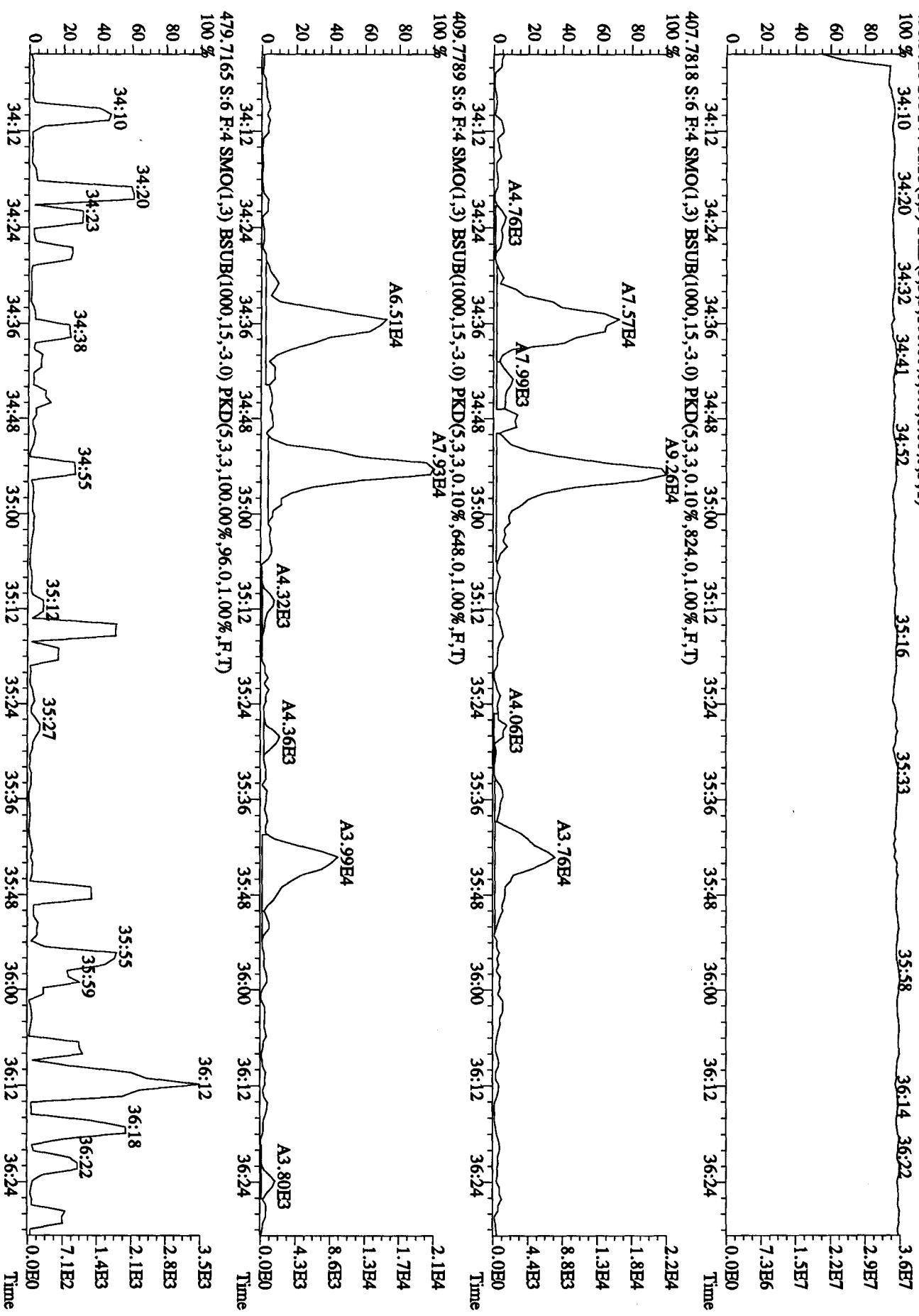


File:01MY104D5 #1-317 Acq: 1-MAY-2010 12:28:29 GC HI+ Voltage SIR Autospec-UltimaE
 Sample#6 Text:LXWV7.1-AA :G0D130519-1 Exp:DIOXINRES8290A
 430.9728 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0,0,1,00%,F,T)
 100 % 30:00 30:27 30:40 30:53 31:14 31:34 32:00 32:13 32:26 32:41 33:06 33:27 33:42

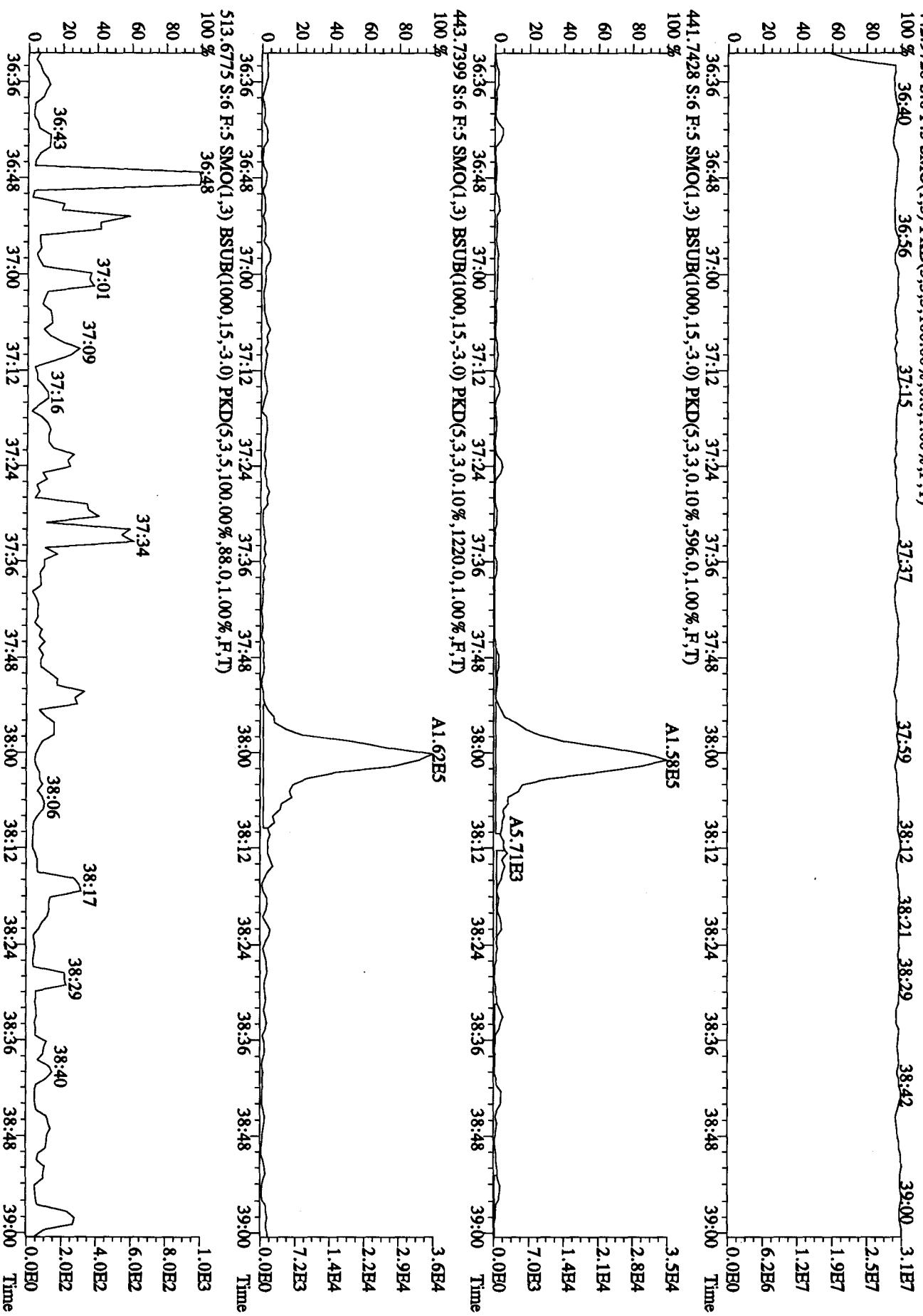
3.6E7
 2.9E7
 2.1E7
 1.4E7
 7.1E6



File:01MY104D5 #1-198 Acc: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 TexLXWV7-1-AA :G0D130519-1 Exp:DIOXINRES8290A
 430.9728 S:6 F:4 SMO(1,3) PKD(5,3,100.00%,0,0,1.00%,F,T)
 100 % 34:10 34:20 34:32 34:41 34:52 35:16 35:33 35:58 36:14 36:22 3.6E7
 60 2.9E7
 40 2.2E7
 20 1.5E7
 0 7.3E6



File:01MY104D5 #1-190 Acc: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-UltimaB
Sample#6 Text:LXWV7-1-AA :G0D130519-1 Exp:DIOXINRES8290A
442.9728 S:6 F:5 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)
100 % 36:40 36:56 37:15 37:37 37:59 38:12 38:21 38:29 38:42 39:00 3.1E7



Run text: LXWV8-1-AA Sample text: LXWV8-1-AA :G0D130519-2
 Run #10 Filename: 01MY104D5 S: 7 I: 1 Results: 01MY104D58290A
 Acquired: 1-MAY-10 13:12:31 Processed: 2-MAY-10 09:22:48
 Run: 01MY104D5 Analyte: 8290AHRS Cal: 8290A0412104D5
 Sample size: 1.03 L

V8 5.3.6

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	110232200	0.80 y	19:29	-	80.1480	-	-	n
13C-2,3,7,8-TCDF	196493800	0.79 y	18:55	1.52	1133.8342	0.6751	58.6	n
2,3,7,8-TCDF	254289	0.73 y	18:56	0.95	2.6485 J	0.3257	-	n
Total TCDF	599909	0.66 y	17:04	0.95	6.2482	0.3257	-	n
13C-2,3,7,8-TCDD	142946900	0.78 y	19:42	0.95	1320.8362	1.3295	68.3	n
2,3,7,8-TCDD	*	* n	Not Fnd	1.02	*	0.3886	-	n
Total TCDD	26022	1.27 n	18:27	1.02	0.3449	0.3886	-	n
37Cl-2,3,7,8-TCDD	173650000	1.00 y	19:43	2.26	673.8633	0.1580	87.1	n
13C-1,2,3,7,8-PeCDF	146290700	1.55 y	24:34	1.05	1222.2163	0.9048	63.2	n
1,2,3,7,8-PeCDF	115230	1.48 y	24:36	1.04	1.4586 J	0.3624	-	n
2,3,4,7,8-PeCDF	74061	1.14 n	26:05	0.98	0.9972 J Q B	0.3855	-	n
Total F2 PeCDF	558454	2.13 n	23:03	1.01	7.2729	0.3735	-	n
Total F1 PeCDF	71844	0.71 n	16:37	1.01	0.9375	0.3851	-	n
13C-1,2,3,7,8-PeCDD	103595200	1.57 y	26:52	0.67	1355.8650	0.3314	70.1	n
1,2,3,7,8-PeCDD	*	* n	Not Fnd	0.98	*	0.4819	-	n
Total PeCDD	38378	0.36 n	23:13	0.98	0.7299	0.4819	-	n
13C-1,2,3,7,8,9-HxCDD	78432800	1.24 y	33:05	-	73.8328	-	-	n
13C-1,2,3,4,7,8-HxCDF	103887000	0.51 y	31:55	1.02	1250.1482	0.0380	64.6	n
1,2,3,4,7,8-HxCDF	119398	0.98 n	31:56	1.21	1.8336 J Q B	0.4236	-	n
1,2,3,6,7,8-HxCDF	79910	0.86 n	32:02	1.34	1.1082 J Q B	0.3825	-	n
2,3,4,6,7,8-HxCDF	63883	1.02 n	32:37	1.22	0.9733 J Q B	0.4203	-	n
1,2,3,7,8,9-HxCDF	96641	1.01 n	33:20	1.09	1.6474	0.4702	-	n
Total HxCDF	778521	1.11 y	30:32	1.22	11.9663	0.4219	-	n
13C-1,2,3,6,7,8-HxCDD	91386800	1.27 y	32:49	0.81	1396.4946	0.4103	72.2	n
1,2,3,4,7,8-HxCDD	17319	0.46 n	32:45	1.01	~0.5 ~0.3642 DL	0.2782	-	n
1,2,3,6,7,8-HxCDD	36055	0.91 n	32:49	1.11	0.6852 J Q	0.2514	-	n
1,2,3,7,8,9-HxCDD	37051	0.86 n	33:05	1.21	0.6487 J Q B	0.2316	-	n
Total HxCDD	201942	1.45 n	31:23	1.11	3.8251	0.2523	-	n
13C-1,2,3,4,6,7,8-HpCDF	90911600	0.43 y	34:35	0.86	1299.8121	7.6661	67.2	n
1,2,3,4,6,7,8-HpCDF	277803	1.10 y	34:36	1.31	4.5138 J B	0.4907	-	n
1,2,3,4,7,8,9-HpCDF	54854	0.57 n	35:44	1.03	1.1381 J Q B	0.6266	-	n
Total HpCDF	578513	1.10 y	34:36	1.17	10.1326	0.5504	-	n
13C-1,2,3,4,6,7,8-HpCDD	81571300	1.05 y	35:24	0.70	1442.3216	4.3140	74.6	n
1,2,3,4,6,7,8-HpCDD	249411	1.18 y	35:24	1.07	5.5187 J B	0.3630	-	n
Total HpCDD	437817	4.06 n	34:35	1.07	9.6875	0.3630	-	n
13C-OCDD	118287600	0.91 y	37:54	0.53	2745.3274	0.0432	71.0	n
OCDF	547022	0.95 y	38:01	1.45	12.3798 J	0.5165	-	n
OCDD	1874136	0.87 y	37:55	1.17	52.5646 J V B	0.3945	-	n

File:01MY104D5 #1-435 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 Text:LXWV8-1-AA :G0D130519-2 Exp:DIOXINRES8290A
 303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,632.0,1.00%,F,T)
 100 % A1.08E5
 80
 60
 40
 20
 0

A1.08E5

2.1E4

1.7E4

1.3E4

8.4E3

4.2E3

1.7E4

1.3E4

8.4E3

4.2E3

2.1E4

1.7E4

File:01MY104D5 #1-435 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-UltimaE

Sample#7 Tex:LXWV8-1-AA :G0D130519-2

Exp:DIOXINRES8290A

319.8965 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,808.0,1.00%,F,T)

100 %

3.5E3

2.8E3

2.1E3

1.4E3

1.0E3

7.1E2

5.0E0

0.0E0



321.8936 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1064.0,1.00%,F,T)

100 %

1.2E4

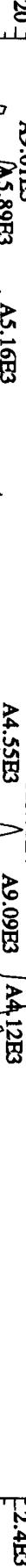
9.7E3

7.3E3

4.9E3

2.4E3

0.0E0



331.9368 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6584.0,1.00%,F,T)

100 %

1.2E7

9.7E6

7.3E6

4.8E6

2.4E6

0.0E0



333.9339 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3280.0,1.00%,F,T)

100 %

-1.5E7

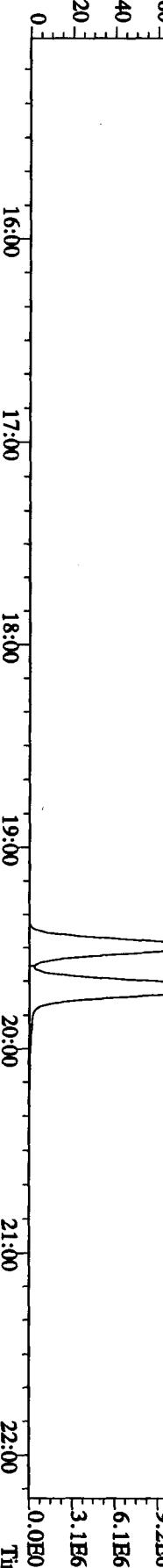
-1.2E7

9.2E6

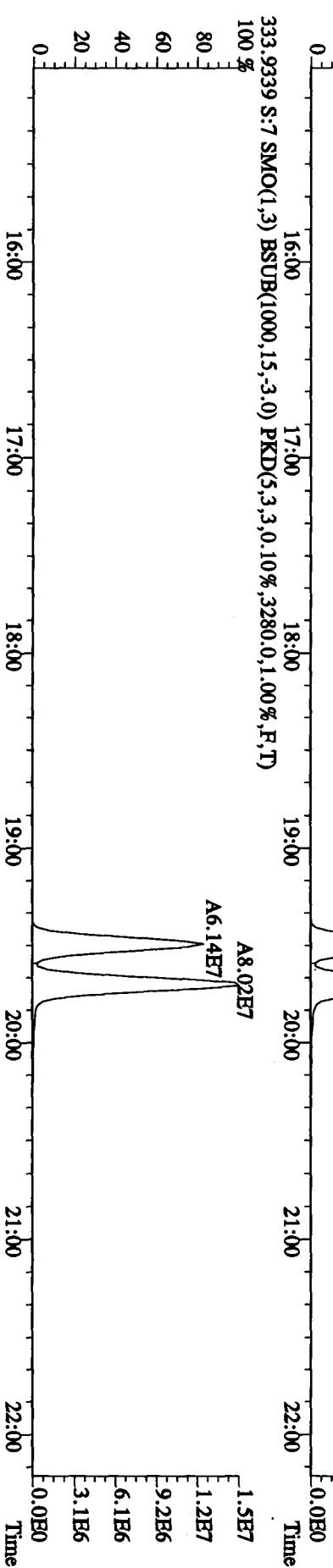
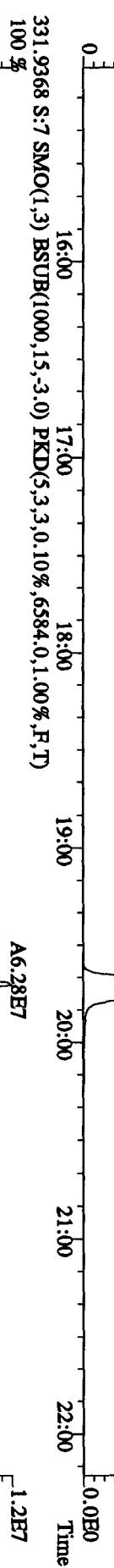
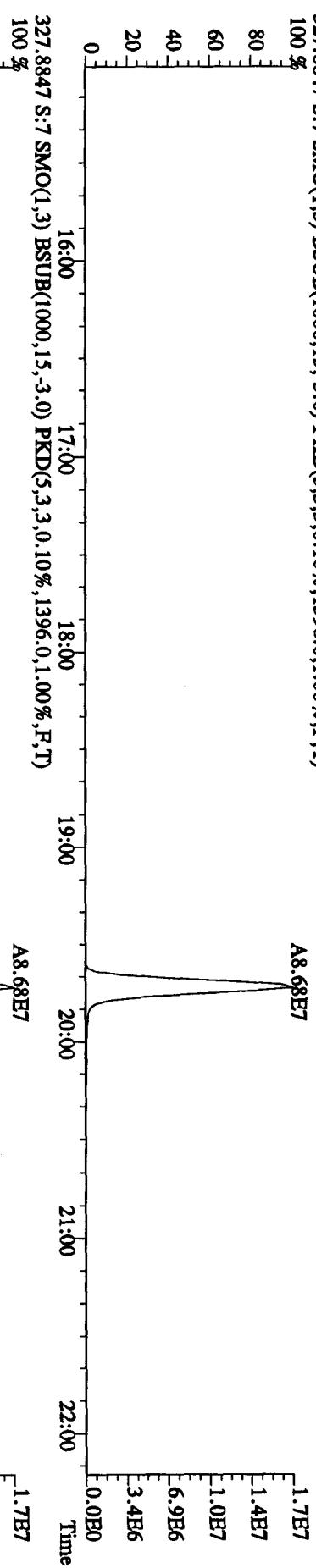
6.1E6

3.1E6

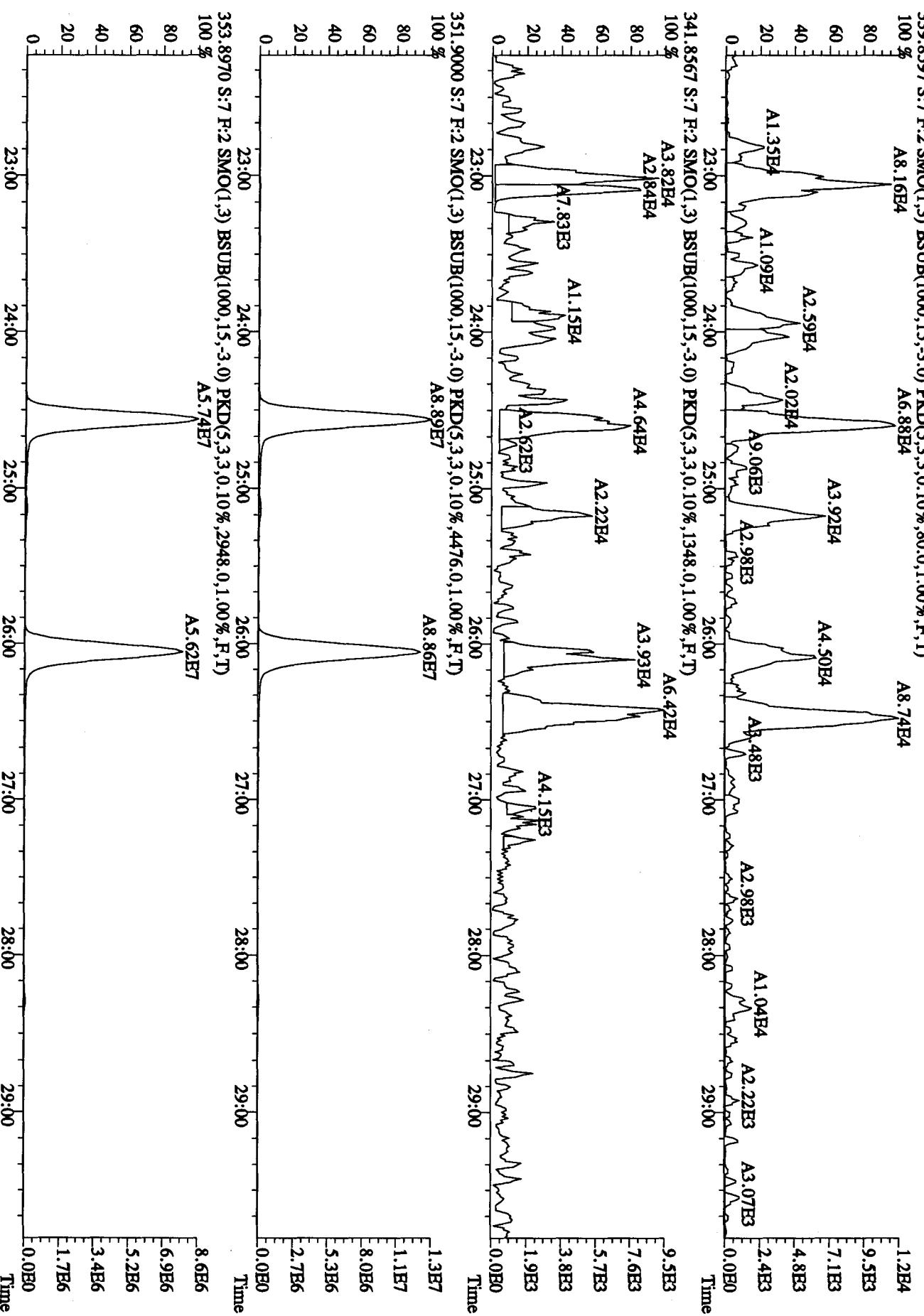
0.0E0



File:01MY104DS #1-435 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 Text,LXWV81AA :G0D1305192
 327.847 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1396.0,1.00%,F,T)
 Exp:DIOXINRES8290A
 100 %
 80 %
 60 %
 40 %
 20 %
 0 %



File:01MY104DS #1-604 Aqc: 1-MAY-2010 13:12:31 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#7 Text:LXWV8:-AA Exp:DIOXINRES8290A
 339.8597 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,80.0,1.00%,F,T)
 100 % A8.16E4 A6.88E4 A8.74E4 1.2E4



File:01MY104D5 #1-435 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-UltimaE

Sample#7 Text:LKWV8-1-AA :G0D130519-2
Exp:DIOXINRES8290A

339.8597 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,56,0,1.00%,F,T)

A5.23E4

1.0E4

90

9.0E3

80

8.0E3

70

7.0E3

60

6.0E3

50

5.0E3

40

4.0E3

30

3.0E3

20

2.0E3

10

1.0E3

0

0.0E0

A3.81E3 A1.90E3 A5.27E3 A4.90E3 A2.00E3 A5.21E3 A3.41E3 A4.70E3 A2.89E3 A2.48E4

1.0E3 5.2E3 4.6E3 4.1E3 3.5E3 2.9E3 2.3E3 1.7E3 1.2E3 5.8E2 0.0E0

341.8567 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1416,0,1.00%,F,T)

16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time

A7.27E3

5.8E3

100

5.2E3

90

4.6E3

80

4.1E3

70

3.5E3

60

2.9E3

50

2.3E3

40

1.7E3

30

1.2E3

20

5.8E2

10

0.0E0

354.9792 S:7 F:2 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)

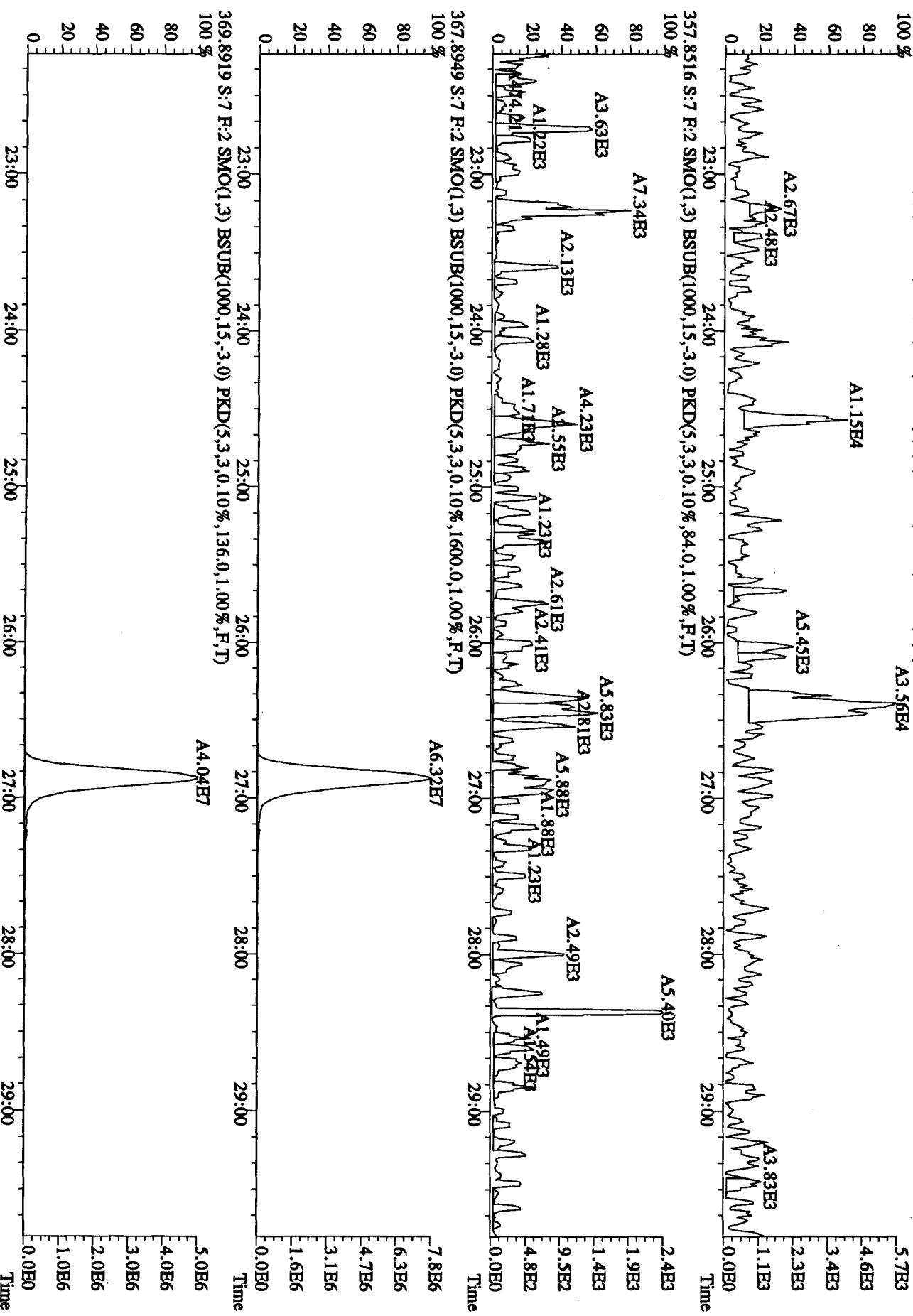
100 90 80 70 60 50 40 30 20 10 0

22:35 23:15 23:40 24:14 24:43 25:16 25:50 26:19 26:58 27:28 28:04 28:29 29:07 29:34 2.5E7

2.2E7 2.0E7 1.7E7 1.5E7 1.2E7 9.8E6 7.4E6 4.9E6 2.5E6 0.0E0

23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

File:01MY104D5 #1-604 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 TextLXWV8.1-AA :GOD130519-2 Exp:DIOXINRES8290A
 355.8546 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,964.0,1.00%,F,T)
 A3.56E4



File:01MY104D5 #1-317 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-UltimaE

Sample#7 Text:LXWV8-1-AA :G0D130519-2 Exp:DIOXINRES8290A

373.8208 S:7 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1400.0,1.00%,F,T)

1.9E4

1.5E4

1.1E4

7.4E3

3.7E3

0.0E0

1.9E7

1.5E7

1.2E7

7.7E6

3.9E6

1.9E7

1.5E7

File:01MY104D5 #1-317 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-UltimaE

Sample#7 Text:LXWV8-1-AA :G0D130519-2 Exp:DIOXINRES8290A

389.8157 S:7 R:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,636.0,1.00%,F,T)

100 % A2.45E4

80 6.4E3

60 5.2E3

40 3.9E3

20 2.6E3

0 1.3E3

30:00 0.0E0 Time

A4.34E3

A9.51E3

A1.44E4

A2.21E4

A2.00E4

A1.75E4

A2.05E4

A1.44E4

A1.08E4

A5.05E3

A1.13E4

A3.09E3

A2.53E3

A1.95E3

A5.23E3

A1.37E3

A1.90E3

30:00

31:00

32:00

33:00

34:00

Time

401.8559 S:7 R:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1968.0,1.00%,F,T)

100 %

80

60

40

20

0

30:00

31:00

32:00

33:00

34:00

Time

403.8529 S:7 R:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,108.0,1.00%,F,T)

100 %

80

60

40

20

0

30:00

31:00

32:00

33:00

34:00

Time

File:01MY104D5 #1-198 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text: LXWV8-1-AA :G0D130519-2 Exp:DIOXINRES8290A

407.7818 S:7 R:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1360,0,1.00%,F,T)
100 % A1.45E5 3.6E4

40 2.9E4

60 2.1E4

40 1.4E4

80 1.0E4

20 7.1E3

0 5.0E3

409.7789 S:7 R:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1128,0,1.00%,F,T)
100 % A1.32E5 3.9E4

80 3.1E4

60 2.3E4

40 1.5E4

20 7.7E3

0 0.0E0

A1.10E5
A1.80E4
A2.80E4
A4.92E3
A1.00E5
A2.71E4
A4.91E4
A2.73E7
A2.26E7
A6.36E7
A5.14E7
34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 Time

417.8253 S:7 R:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,9676,0,1.00%,F,T)
100 % 6.7E6

80 5.4E6

60 4.0E6

40 2.7E6

20 1.3E6

0 0.0E0

419.8220 S:7 R:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,31780,0,1.00%,F,T)
100 % 1.6E7

80 1.3E7

60 9.5E6

40 6.3E6

20 3.2E6

0 0.0E0

File:01MY104D5 #1-198 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#7 Text:LXWV81-AA :GOD130519-2
 423.7766 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,704.0,1.00%,R,T)
 Exp:DIOXINRES8290A
 A1.35E5
 3.0E4
 2.4E4
 1.8E4
 1.2E4
 6.0E3
 0.0HO
 Time

A1.35E5

3.0E4

2.4E4

1.8E4

1.2E4

6.0E3

0.0HO

A7.51E4

2.4E4

A1.99E4

1.8E4

A7.51E4

1.2E4

A4.17E3

6.0E3

A1.14E5

2.9E4

A1.19E4

2.3E4

A7.40E4

1.8E4

A4.17E3

1.2E4

A8.31E3

5.9E3

A8.31E3

9.4E6

A4.17E7

7.5E6

A4.17E7

5.6E6

A4.17E7

3.8E6

A4.17E7

1.9E6

423.7737 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,516.0,1.00%,R,T)
 100 %
 34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 0.0HO
 Time

A4.17E7

8.8E6

435.8169 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9520.0,1.00%,R,T)
 100 %
 34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 0.0HO
 Time

A4.17E7

7.0E6

437.8140 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9344.0,1.00%,R,T)
 100 %
 34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 0.0HO
 Time

A3.99E7

5.3E6

437.8140 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9344.0,1.00%,R,T)
 100 %
 34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 0.0HO
 Time

A3.99E7

3.5E6

437.8140 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9344.0,1.00%,R,T)
 100 %
 34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 0.0HO
 Time

A3.99E7

1.8E6

437.8140 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9344.0,1.00%,R,T)
 100 %
 34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 0.0HO
 Time

A3.99E7

1.8E6

437.8140 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9344.0,1.00%,R,T)
 100 %
 34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 0.0HO
 Time

A3.99E7

0.0HO

File:01MY104D5 #1-190 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-UltimaB
Sample#7 Text:LXWV8-1-AA :G0D130519-2 Exp:DIOXINRES8290A
441.7428 S:7 R:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,732.0,1.00%,F,T)
100 %

A2.66E5

5.0E4

4.5E4

4.0E4

3.5E4

3.0E4

2.5E4

2.0E4

1.5E4

1.0E4

5.0E3

9.9E3

1.5E4

2.0E4

2.5E4

3.0E4

3.5E4

4.0E4

4.5E4

5.0E4

5.5E4

6.0E4

6.5E4

7.0E4

7.5E4

8.0E4

8.5E4

9.0E4

9.5E4

10.0E4

10.5E4

11.0E4

11.5E4

12.0E4

12.5E4

13.0E4

13.5E4

14.0E4

14.5E4

15.0E4

15.5E4

16.0E4

16.5E4

17.0E4

17.5E4

18.0E4

18.5E4

19.0E4

19.5E4

20.0E4

20.5E4

21.0E4

21.5E4

22.0E4

22.5E4

23.0E4

23.5E4

24.0E4

24.5E4

25.0E4

25.5E4

26.0E4

26.5E4

27.0E4

27.5E4

28.0E4

28.5E4

29.0E4

29.5E4

30.0E4

30.5E4

31.0E4

31.5E4

32.0E4

32.5E4

33.0E4

33.5E4

34.0E4

34.5E4

35.0E4

35.5E4

36.0E4

36.5E4

37.0E4

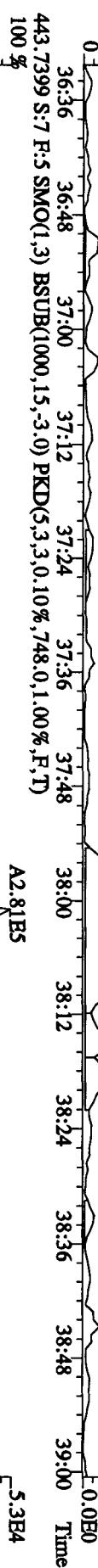
37.5E4

38.0E4

38.5E4

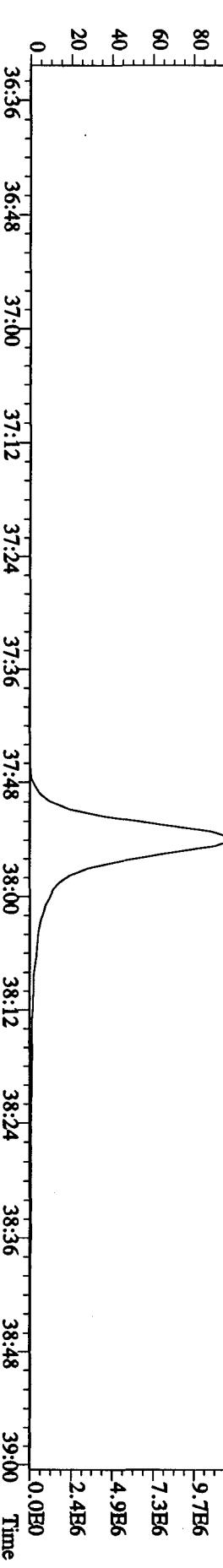
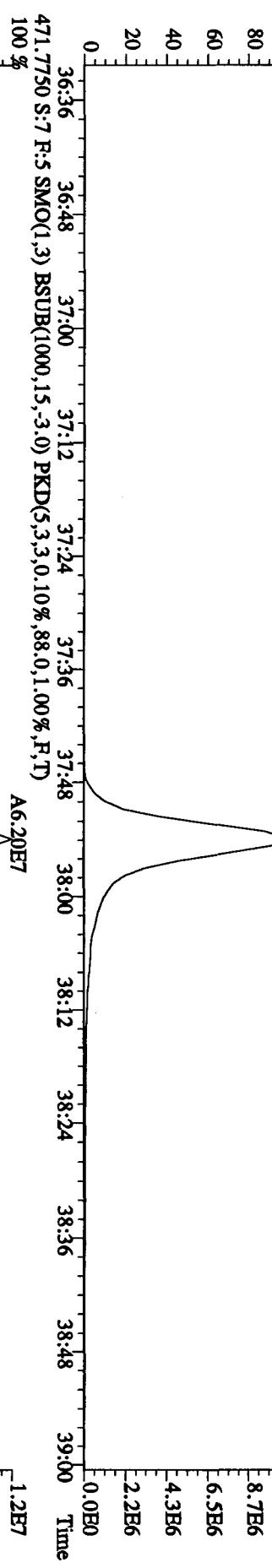
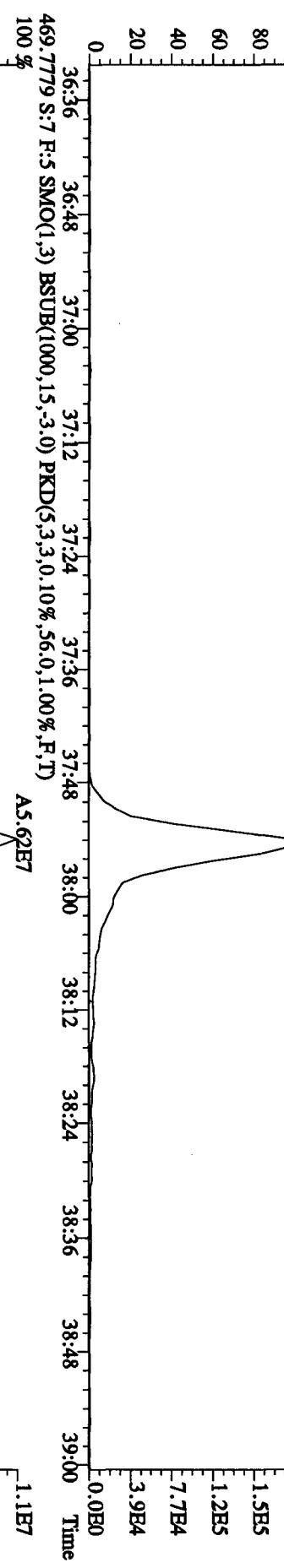
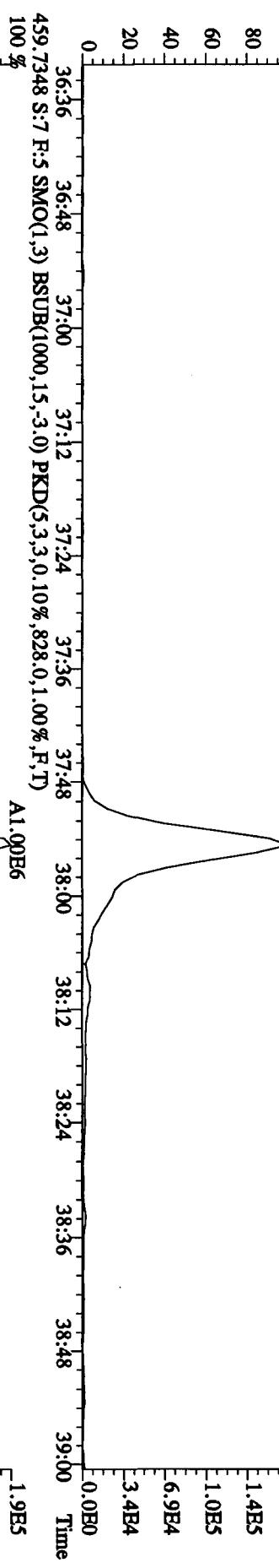
39.0E4

0.0E0



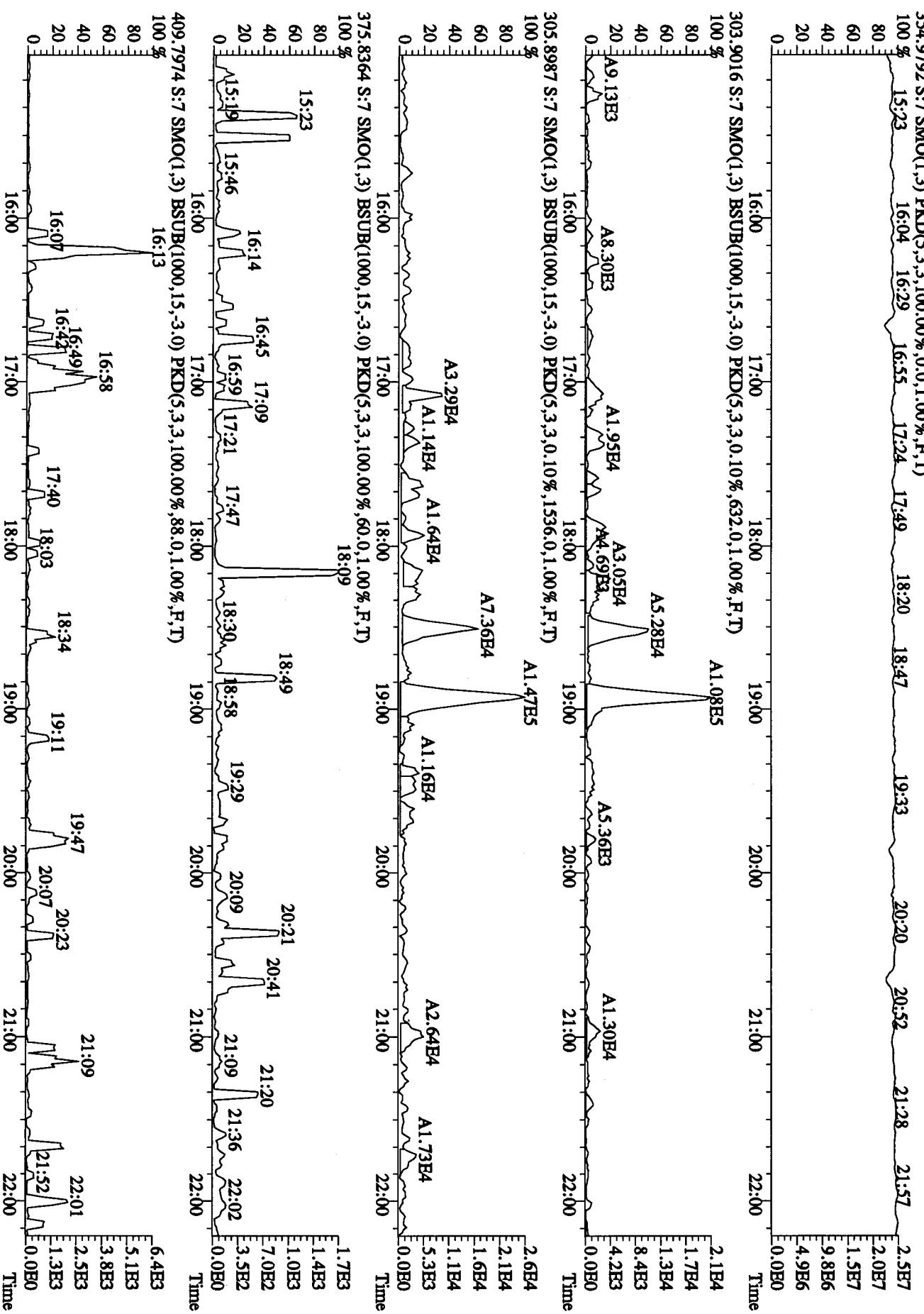
File:01MY104D5 #1-190 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-UltimaH

Sample#: T-Text:LXWV8-1-AA :GOD130519-2 Exp:DIOXINRES3290A
457.7377 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,84,0,1.00%,F,T)
100 %



File:01MY104D5 #1-435 Acq: 1-MAY-2010 13:12:31 GC El+ Voltage SR Autospec-UltimaE

Sample#: Text:LxWV8-I-AA :g0B130319-2 Exp: BLOXINRES8290JA



File:01MY104D5 #1-317 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 Text:LXWV8-1-AA :G0D130519-2 Exp:DIOXINRES8290A
 430.9728 S:7 R:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 % 29.58 30:14 30:27 30:53 31:09 31:24 31:39 31:57 32:16 32:47 33:00 33:15 33:29 33:53 3.5E7
 80
 60
 40
 20
 0

373.8208 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1400,0.1,1.00%,F,T)

A8.12B4 A6.83E4 1.9E4
 80
 60
 40
 20
 0

30:00 31:00 32:00 33:00 34:00 Time

0.0E0

375.8178 S:7 R:3 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,760,0.1,1.00%,F,T)

A7.13B4 A5.35E4 1.5E4
 100 %
 80
 60
 40
 20
 0

30:00 31:00 32:00 33:00 34:00 Time

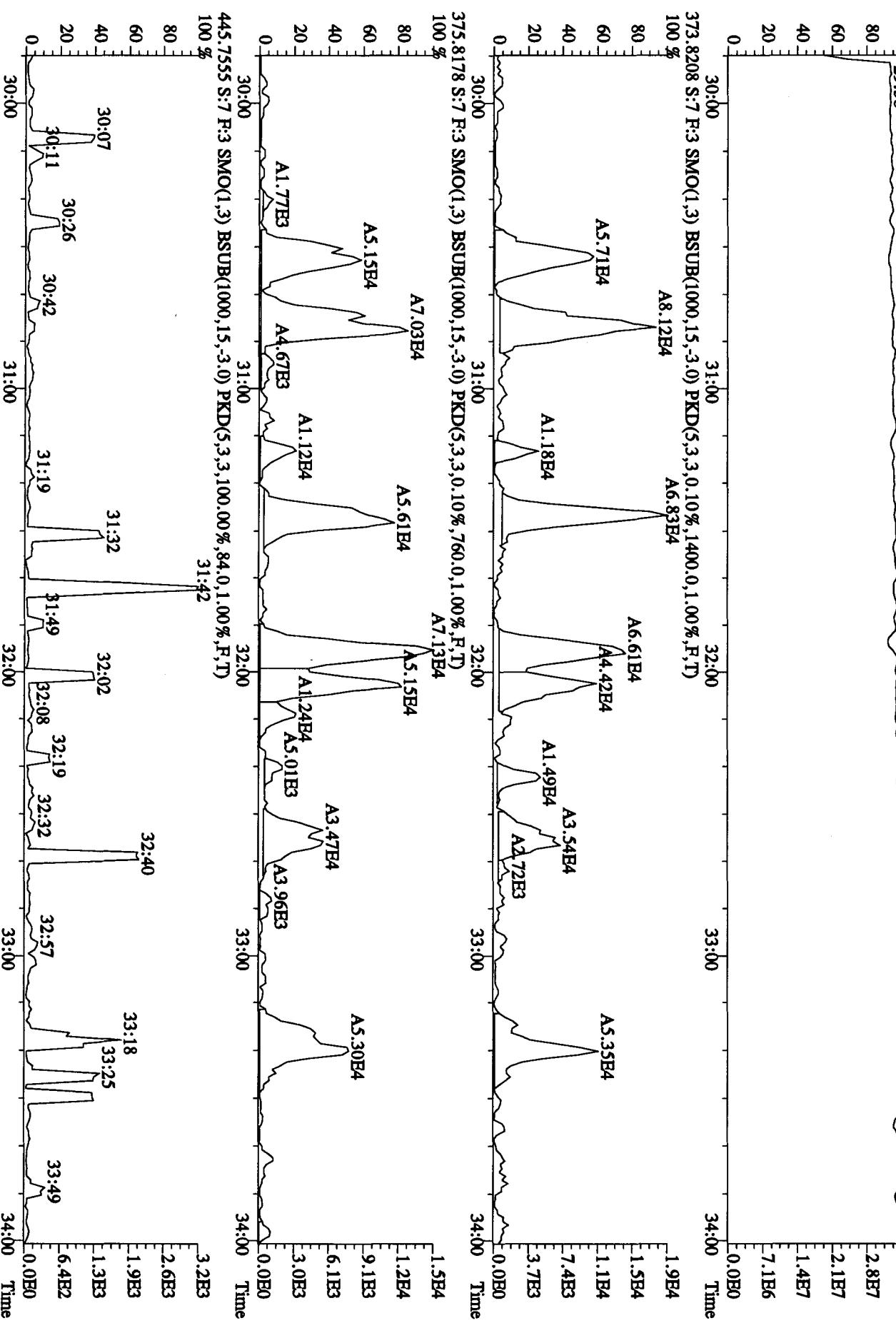
0.0E0

445.7555 S:7 R:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,84,0.1,1.00%,F,T)

100 %
 100 %
 80
 60
 40
 20
 0

30:00 31:00 32:00 33:00 34:00 Time

0.0E0



File:01MY104D5 #1-198 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-UltimaE

Sample# / Text:LXWV8-1-AA :G0D130519-2 Exp:DIOXINRHS8290A

430.9728 S:7 F:4 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)

100 % 34:11 34:22 34:38 34:54 35:03 35:14 35:30 35:46 35:55 36:13 36:20 3.6E7

80 2.9E7

60 2.2E7

40 1.4E7

20 7.2E6

0 0.0E0

34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 Time

407.7818 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1360.0,1.00%,F,T) 3.6E4

100 % A1.45E5

80 2.1E4

60 1.4E4

40 A1.10E5

20 A1.80E4

0 A4.92E3

34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 Time

409.7789 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1128.0,1.00%,F,T) 7.1E3

100 % A1.32E5

80 3.9E4

60 A1.00E5

40 A2.71E4

20 A2.80E4

0 A4.91E4

34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 Time

479.7165 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,64.0,1.00%,F,T) 2.8E3

100 % 34:12 34:18 34:22 34:29 34:43 34:54 34:58 35:14 35:30 35:38 35:46 35:58 35:42 35:55 36:16 36:24 0.0E0

80 2.3E3

60 1.7E3

40 1.1E3

20 5.7E2

34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 Time

Sample#7 Text:LXWV8-1-AA :G0D130519-2 Exp:DIOXINRRES290A

442.9728 S:7 F:5 SMO(1,3), PKD(5,3,3,100.00%,0,0,1.00%,F,T)

100 % 36:37 36:47 36:57 37:10 37:26 37:41 37:54 38:10 38:23 38:40 38:52

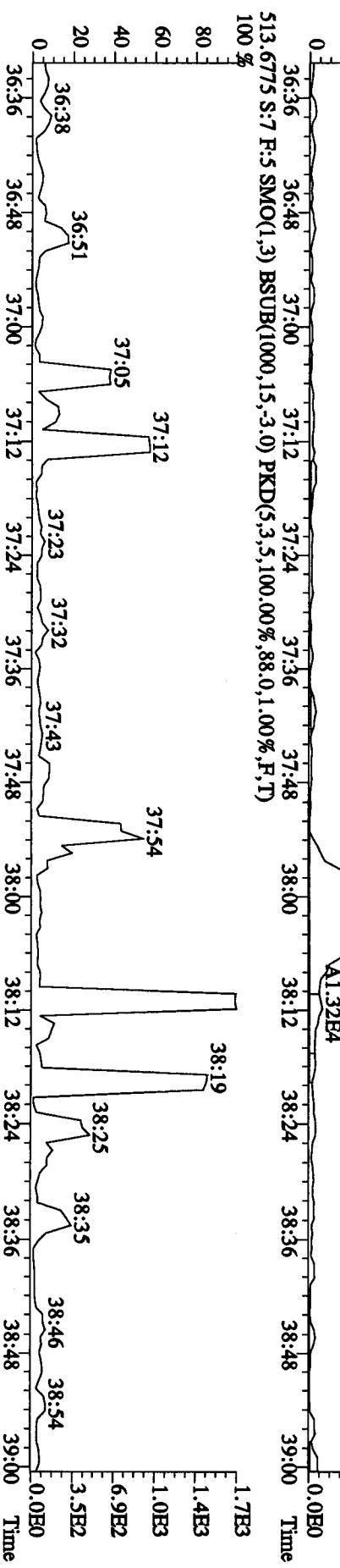
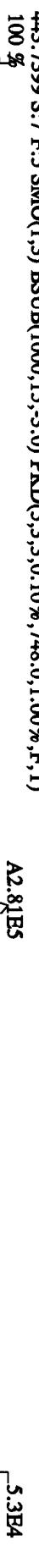
80

60

40

20

0



(6)

Daily Calibration Checklist
Dioxin MethodsMethod ID 8290Associated ICAL 8290A0412104ASColumn ID DB5Instrument ID 4DSSTD ID ST0501, ST0501ASTD Solution 10DXN111Analyzed by AM, MGDate Analyzed 5/1/10Std. Pkg. By MEDate Std. Pkg. Assembled 5/2/10Std. Pkg. Reviewed By SMADate Std. Pkg. Reviewed 5/03/10

DAILY STANDARD PACKAGE	INITIATED	REVIEWED
Standard, CPSM, and Solvent Blank present?	✓	✓
Copy of log-file and Beginning Static Resolution present?	✓	✓
CPSM blow up present?	✓	✓
Curve Summary present?	✓	✓
Summary of Method criteria present or documented below?	✓	✓
Daily standard within method specified limits?	✓	✓
Analyte retention times correct?	✓	✓
Isotopic ratios within limits?	✓	✓
CPSM valley ≤ method specified limits?**	✓	✓
Are chromatographic windows correct?	✓	✓
Samples analyzed within 12 hrs of daily standard?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA
Ending Standard present?	✓	✓
Ending Static Resolutions present	✓	✓
Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (required for all 1613B samples)	NA	NA

COMMENTS:

* Method 8290/T09/M0023A: (beginning) ≤ 20% from curve RRFs for native analytes, ≤ 30% from curve RRFs for labeled compounds.

Method 8290/T09/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/T09 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Run text: ST0501 File text: ST0501 :CS3 10DXN083
 Run #6 Filename 01MY104D5 S: 1 I: 1
 Acquired: 1-MAY-10 08:48:19 Processed: 2-MAY-10 09:21:44
 Run: 01MY104D5 Analyte: 8290A Cal: 8290A0412104D5 Results: 01MY104D58290A

	Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	146739400	0.80 y	19:30	-	1.00	100.00	-	n
13C-2,3,7,8-TCDF	223821200	0.80 y	18:55	1.53	1.00	100.00	0.3	n
2,3,7,8-TCDF	21562170	0.79 y	18:56	0.96	1.00	10.00	1.9	n
Total TCDF	21750047	0.45 n	17:56	0.96	1.00	10.00	1.9	n
13C-2,3,7,8-TCDD	151633700	0.78 y	19:43	1.03	1.00	100.00	8.8	n
2,3,7,8-TCDD	14451400	0.78 y	19:44	0.95	1.00	10.00	-6.7	n
Total TCDD	14503234	0.68 y	18:28	0.95	1.00	10.00	-6.7	n
37Cl-2,3,7,8-TCDD	35955800	1.00 y	19:44	2.45	1.00	10.00	8.4	n
13C-1,2,3,7,8-PeCDF	152638100	1.56 y	24:34	1.04	1.00	100.00	-1.0	n
1,2,3,7,8-PeCDF	78056200	1.59 y	24:35	1.02	1.00	50.00	-2.1	n
2,3,4,7,8-PeCDF	74078500	1.56 y	26:05	0.97	1.00	50.00	-1.2	n
Total F2 PeCDF	154427192	1.67 y	23:00	1.00	1.00	100.00	-1.7	n
Total F1 PeCDF	16556	0.17 n	16:41	1.00	1.00	100.00	-1.7	n
13C-1,2,3,7,8-PeCDD	105170000	1.56 y	26:52	0.72	1.00	100.00	6.9	n
1,2,3,7,8-PeCDD	48270900	1.58 y	26:55	0.92	1.00	50.00	-6.5	n
Total PeCDD	48270900	1.58 y	26:55	0.92	1.00	50.00	-6.5	n
13C-1,2,3,7,8,9-HxCDD	120109000	1.27 y	33:05	-	1.00	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	109948300	0.52 y	31:55	0.92	1.00	100.00	-10.7	n
1,2,3,4,7,8-HxCDF	67922200	1.24 y	31:56	1.24	1.00	50.00	1.9	n
1,2,3,6,7,8-HxCDF	77606400	1.25 y	32:03	1.41	1.00	50.00	5.1	n
2,3,4,6,7,8-HxCDF	71115100	1.29 y	32:37	1.29	1.00	50.00	5.8	n
1,2,3,7,8,9-HxCDF	66383100	1.25 y	33:16	1.21	1.00	50.00	10.5	n
Total HxCDF	283136957	1.36 y	30:47	1.29	1.00	200.00	5.7	n
13C-1,2,3,6,7,8-HxCDD	109934000	1.27 y	32:49	0.92	1.00	100.00	13.4	n
1,2,3,4,7,8-HxCDD	44621900	1.28 y	32:45	0.81	1.00	50.00	-19.4	n
1,2,3,6,7,8-HxCDD	60062200	1.29 y	32:49	1.09	1.00	50.00	-1.9	n
1,2,3,7,8,9-HxCDD	60107100	1.28 y	33:06	1.09	1.00	50.00	-9.6	n
Total HxCDD	164791200	1.28 y	32:45	1.00	1.00	150.00	-10.0	n
13C-1,2,3,4,6,7,8-HpCDF	99562400	0.44 y	34:36	0.83	1.00	100.00	-3.9	n
1,2,3,4,6,7,8-HpCDF	63278700	0.96 y	34:36	1.27	1.00	50.00	-2.9	n
1,2,3,4,7,8,9-HpCDF	54417700	0.96 y	35:43	1.09	1.00	50.00	6.6	n
Total HpCDF	117696400	0.96 y	34:36	1.18	1.00	100.00	1.2	n
13C-1,2,3,4,6,7,8-HpCDD	95219600	1.05 y	35:24	0.79	1.00	100.00	13.7	n
1,2,3,4,6,7,8-HpCDD	49833600	1.05 y	35:25	1.05	1.00	50.00	-2.3	n
Total HpCDD	50059612	0.85 n	34:51	1.05	1.00	50.00	-2.3	n
13C-OCDD	134824700	0.90 y	37:53	0.56	1.00	200.00	5.6	n
OCDF	94262700	0.92 y	38:00	1.40	1.00	100.00	-3.3	n
OCDD	76243600	0.89 y	37:54	1.13	1.00	100.00	-3.0	n

Run text: ST0501A File text: ST0501A :CS3 10DXN083
 Run #20 Filename 01MY104D5 S: 18 I: 1
 Acquired: 1-MAY-10 21:17:02 Processed: 2-MAY-10 09:24:44
 Run: 01MY104D5 Analyte: 8290A Cal: 8290A0412104D5 Results: 01MY104D58290A

	Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	131130396	0.79	y	19:30	-	100.00	-	n
13C-2,3,7,8-TCDF	198713664	0.79	y	18:55	1.52	100.00	-0.4	n
2,3,7,8-TCDF	19000129	0.78	y	18:56	0.96	10.00	1.1	n
Total TCDF	19127788	0.75	y	18:31	0.96	10.00	1.1	n
13C-2,3,7,8-TCDD	133148476	0.79	y	19:43	1.02	100.00	6.9	n
2,3,7,8-TCDD	12720864	0.78	y	19:44	0.96	10.00	-6.4	n
Total TCDD	12758850	0.40	n	18:29	0.96	10.00	-6.4	n
37Cl-2,3,7,8-TCDD	31099532	1.00	y	19:44	2.37	10.00	4.9	n
13C-1,2,3,7,8-PeCDF	138798408	1.56	y	24:34	1.06	100.00	0.8	n
1,2,3,7,8-PeCDF	70849384	1.56	y	24:35	1.02	50.00	-2.3	n
2,3,4,7,8-PeCDF	69381910	1.56	y	26:05	1.00	50.00	1.8	n
Total F2 PeCDF	141199654	2.14	n	23:03	1.01	100.00	-0.3	n
Total F1 PeCDF	33211	0.22	n	16:08	1.01	100.00	-0.3	n
13C-1,2,3,7,8-PeCDD	99650396	1.53	y	26:53	0.76	100.00	13.3	n
1,2,3,7,8-PeCDD	46069956	1.56	y	26:55	0.92	50.00	-5.8	n
Total PeCDD	46069956	1.56	y	26:55	0.92	50.00	-5.8	n
13C-1,2,3,7,8,9-HxCDD	104729540	1.27	y	33:05	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	99279104	0.52	y	31:55	0.95	100.00	-7.5	n
1,2,3,4,7,8-HxCDF	61254934	1.25	y	31:56	1.23	50.00	1.8	n
1,2,3,6,7,8-HxCDF	69040610	1.28	y	32:03	1.39	50.00	3.6	n
2,3,4,6,7,8-HxCDF	64003716	1.27	y	32:37	1.29	50.00	5.5	n
1,2,3,7,8,9-HxCDF	57404352	1.29	y	33:17	1.16	50.00	5.9	n
Total HxCDF	251807041	0.91	n	30:47	1.27	200.00	4.1	n
13C-1,2,3,6,7,8-HxCDD	87238456	1.29	y	32:50	0.83	100.00	3.2	n
1,2,3,4,7,8-HxCDD	40690090	1.27	y	32:46	0.93	50.00	-7.3	n
1,2,3,6,7,8-HxCDD	54351886	1.31	y	32:50	1.25	50.00	11.9	n
1,2,3,7,8,9-HxCDD	53360746	1.27	y	33:06	1.22	50.00	1.2	n
Total HxCDD	148402722	1.27	y	32:46	1.13	150.00	2.2	n
13C-1,2,3,4,6,7,8-HpCDF	87798028	0.44	y	34:36	0.84	100.00	-2.8	n
1,2,3,4,6,7,8-HpCDF	56057650	0.95	y	34:37	1.28	50.00	-2.5	n
1,2,3,4,7,8,9-HpCDF	46674540	0.96	y	35:44	1.06	50.00	3.7	n
Total HpCDF	102732190	0.95	y	34:37	1.17	100.00	0.2	n
13C-1,2,3,4,6,7,8-HpCDD	78724988	1.06	y	35:24	0.75	100.00	7.8	n
1,2,3,4,6,7,8-HpCDD	41106808	1.03	y	35:25	1.04	50.00	-2.6	n
Total HpCDD	41587659	1.27	n	34:51	1.04	50.00	-2.6	n
13C-OCDD	119042964	0.91	y	37:54	0.57	200.00	7.0	n
OCDF	82960652	0.92	y	38:01	1.39	100.00	-3.6	n
OCDD	68190198	0.89	y	37:54	1.15	100.00	-1.8	n

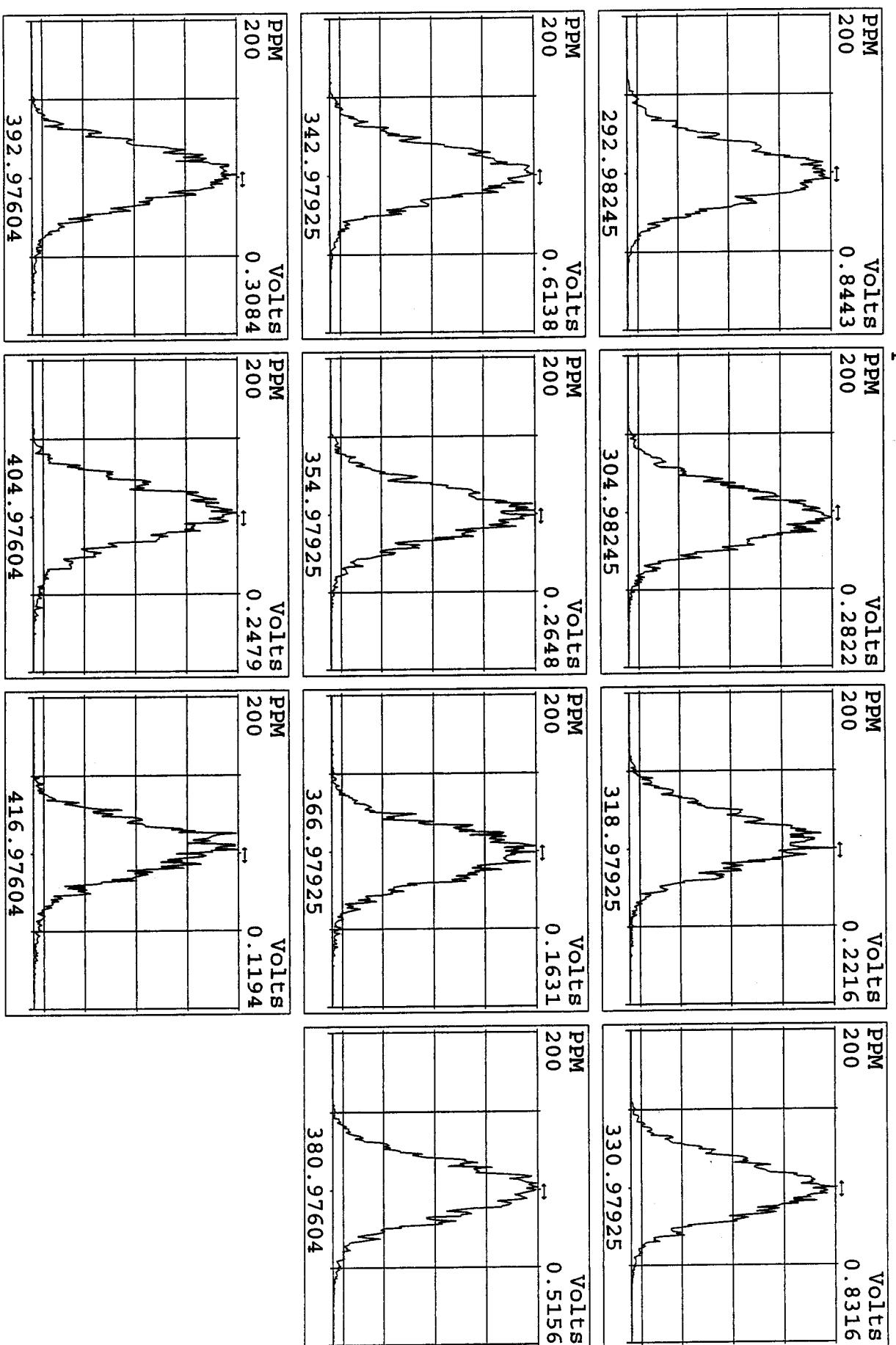
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
01MY104D5	1	ST0501	CS3 10DXN083				1.00000	
01MY104D5	2	CP0501	DB-5 CPSM 3732-05				1.00000	
01MY104D5	3	SB0501	Solvent Blank C-14				1.00000	
01MY104D5	4	LX3LQ-1-AA	G0D160000-253B	20	8290/WATER	72	1.00000	L
01MY104D5	5	LX3LQ-1-AC	G0D160000-253C	20	8290/WATER		1.00000	L
01MY104D5	6	LXWV7-1-AA	G0D130519-1	10	8290/WATER		1.03350	L
01MY104D5	7	LXWV8-1-AA	G0D130519-2	10	8290/WATER		1.03380	L
01MY104D5	8	LOAHX-1-AC	G0D210000-312C	10	8290/WATER	78	1.00000	L
01MY104D5	9	LOAHX-1-AA	G0D210000-312B	10	8290/WATER		1.00000	L
01MY104D5	10	LX2FJ-1-AA	G0D150582-1	10	8290/WATER		0.97230	L
01MY104D5	11	LX2FN-1-AA	G0D150582-2	10	8290/WATER		0.97411	L
01MY104D5	12	LX0M3-1-AA	G0D140534-1	10	8290/WATER	75	1.00480	L
01MY104D5	13	LX0M5-1-AA	G0D140534-2	10	8290/WATER		0.99770	L
01MY104D5	14	LX0M6-1-AA	G0D140534-3	10	8290/WATER		0.94920	L
01MY104D5	15	LX2G1-1-AD	G0D150589-9	10	8290/SOLID	75	10.24000	g
01MY104D5	16	LX2JT-1-AD	G0D150589-36	10	8290/SOLID		10.00000	g
01MY104D5	17	SB0501A	Solvent Blank C-14				1.00000	
01MY104D5	18	ST0501A	CS3 10DXN083				1.00000	
01MY104D5	19	CP0501A	DB-5 CPSM 3732-05				1.00000	
01MY104D5	20	SB0501B	Solvent Blank C-14				1.00000	
01MY104D5	21	LOLW7-1-AA	G0D270000-429B	20	8290/WATER	84	1.00000	L
01MY104D5	22	LOLW7-1-AC	G0D270000-429C	20	8290/WATER		1.00000	L
01MY104D5	23	LOJ0P-1-AC	G0D260486-1	20	8290/WATER		1.00490	L
01MY104D5	24	LOJ0R-1-AC	G0D260486-2	20	8290/WATER		0.96380	L
01MY104D5	25	LOJ0T-1-AC	G0D260486-3	20	8290/WATER		1.00150	L
01MY104D5	26	LOJ0V-1-AC	G0D260486-4	20	8290/WATER		1.00460	L
01MY104D5	27	LOJ0O-1-AD	G0D260486-6	20	8290/SOLID		10.11000	g
01MY104D5	28	LOJ01-1-AD	G0D260486-7	20	8290/SOLID		10.09000	g
01MY104D5	29	LOJ03-1-AD	G0D260486-8	20	8290/SOLID		10.20000	g
01MY104D5	30	LOJ04-1-AD	G0D260486-9	20	8290/SOLID		10.16000	g
01MY104D5	31	LOJ05-1-AD	G0D260486-10	20	8290/SOLID		10.24000	g
01MY104D5	32	LOJ06-1-AD	G0D260486-11	20	8290/SOLID		10.32000	g
01MY104D5	33	SB0501C	Solvent Blank C-14				1.00000	
01MY104D5	34	ST0501B	CS3 10DXN083				1.00000	
01MY104D5	35	CP0501B	DB-5 CPSM 3732-05				1.00000	
01MY104D5	36	SB0501D	Solvent Blank C-14				1.00000	
01MY104D5	37	LOJ08-1-AD	G0D260486-12	20	8290/SOLID	84	10.07000	g
01MY104D5	38	LOJ09-1-AD	G0D260486-13	20	8290/SOLID		10.25000	g
01MY104D5	39	LOJ1A-1-AD	G0D260486-14	20	8290/SOLID		10.58000	g
01MY104D5	40	LOJ1C-1-AD	G0D260486-15	20	8290/SOLID		10.39000	g
01MY104D5	41	LOJ1D-1-AD	G0D260486-16	20	8290/SOLID		10.16000	g
01MY104D5	42	LOJ1F-1-AD	G0D260486-17	20	8290/SOLID		10.19000	g
01MY104D5	43	LOJ1G-1-AD	G0D260486-18	20	8290/SOLID		10.17000	g
01MY104D5	44	LOJ1H-1-AD	G0D260486-19	20	8290/SOLID		10.35000	g
01MY104D5	45	LOJ1J-1-AD	G0D260486-20	20	8290/SOLID		10.14000	g
01MY104D5	46	LOJ1K-1-AD	G0D260486-21	20	8290/SOLID		10.22000	g
01MY104D5	47	LOJ1L-1-AD	G0D260486-22	20	8290/SOLID		10.44000	g
01MY104D5	48	LOJ1M-1-AD	G0D260486-23	20	8290/SOLID		10.11000	g
01MY104D5	49	SB0501E	Solvent Blank C-14				1.00000	
01MY104D5	50	ST0501C	CS3 10DXN083				1.00000	
01MY104D5	51						1.00000	
01MY104D5	52						1.00000	
01MY104D5	53						1.00000	

MG, AM 05-01-10

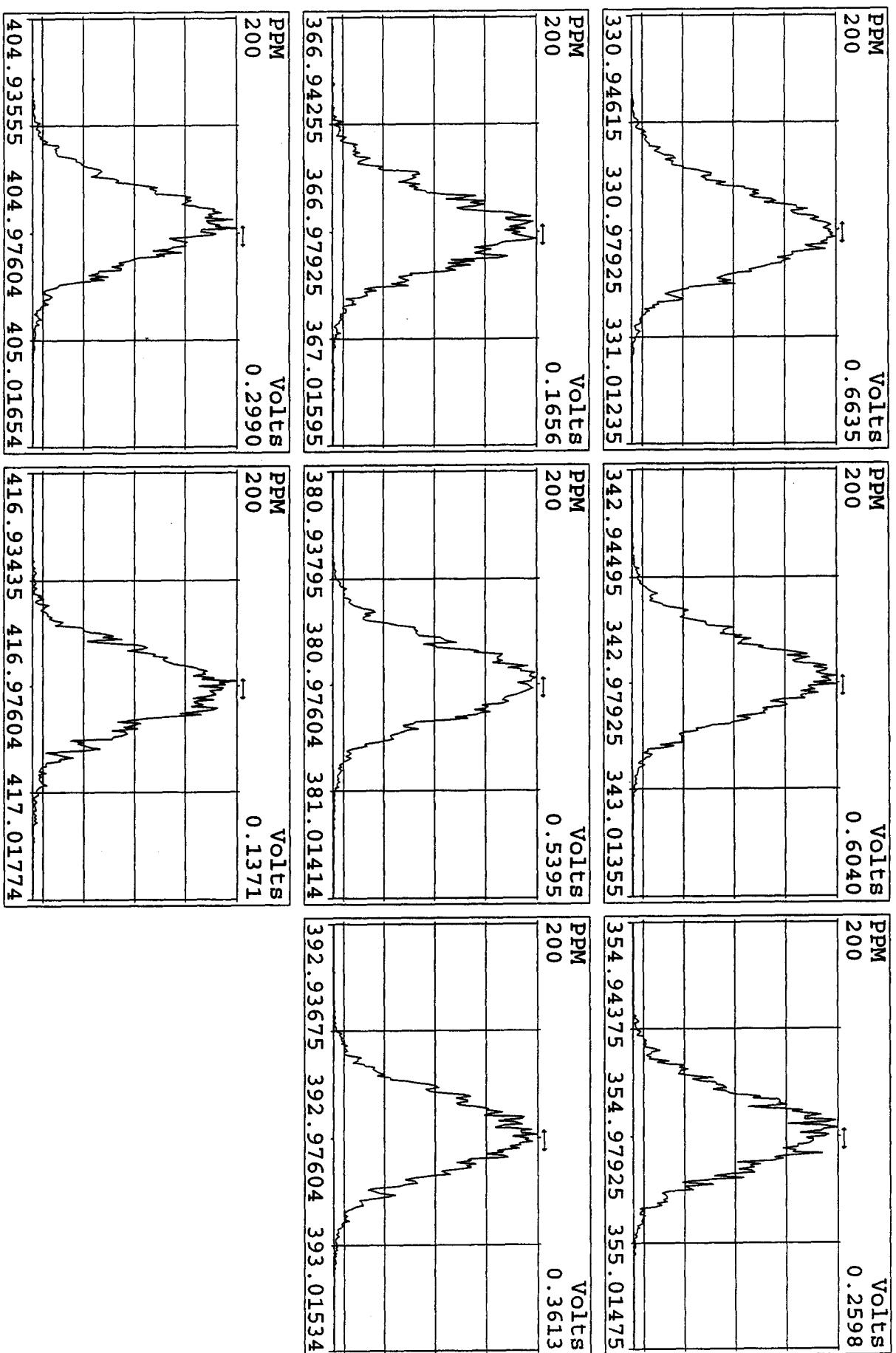
10/16/10 jc

5/2/10 JC

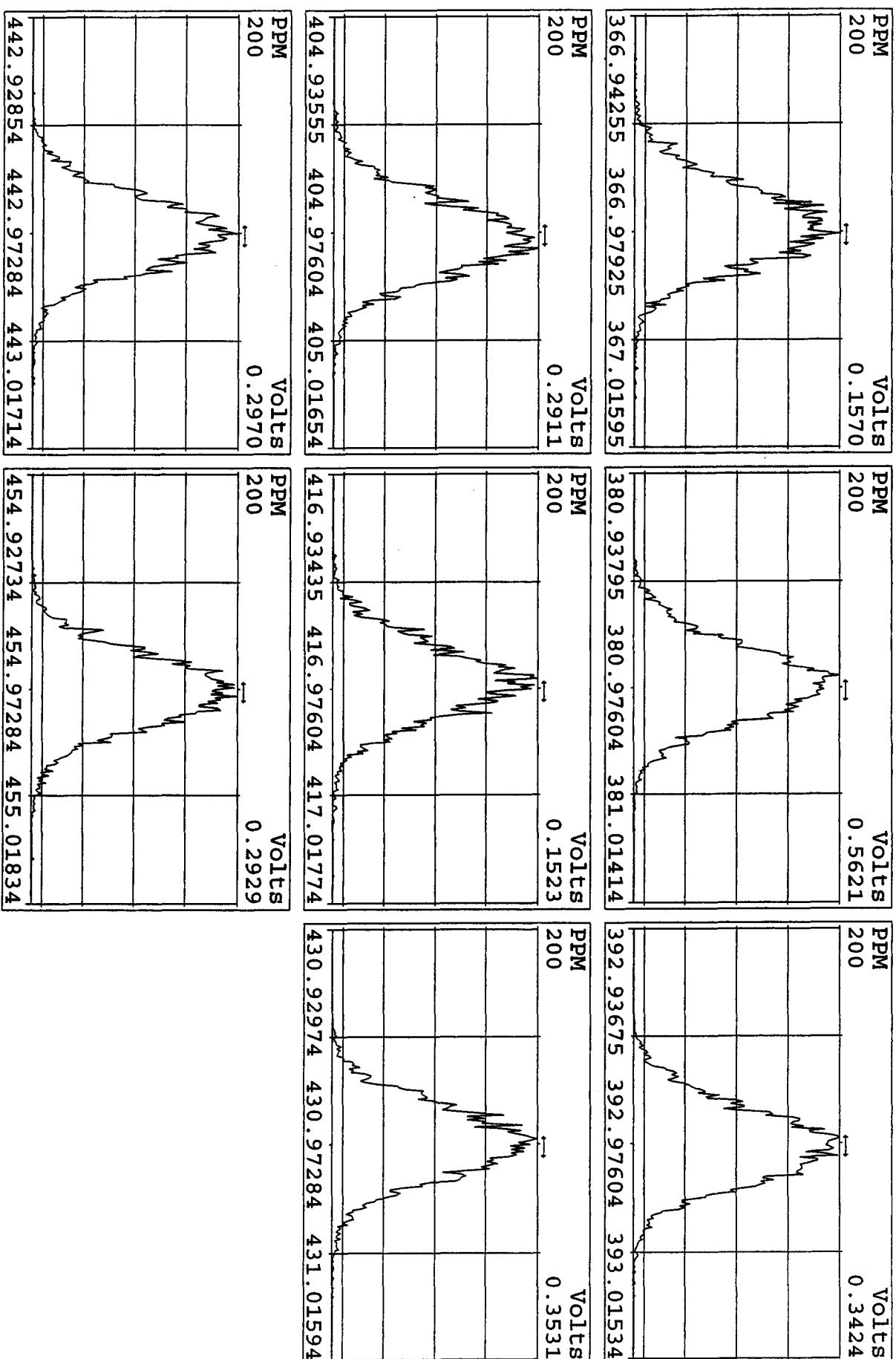
Peak Locate Examination: 1-MAY-2010:08:45 File:01MY104D5
 Experiment:DIOXINRES8290A Function:1 Reference:PFK



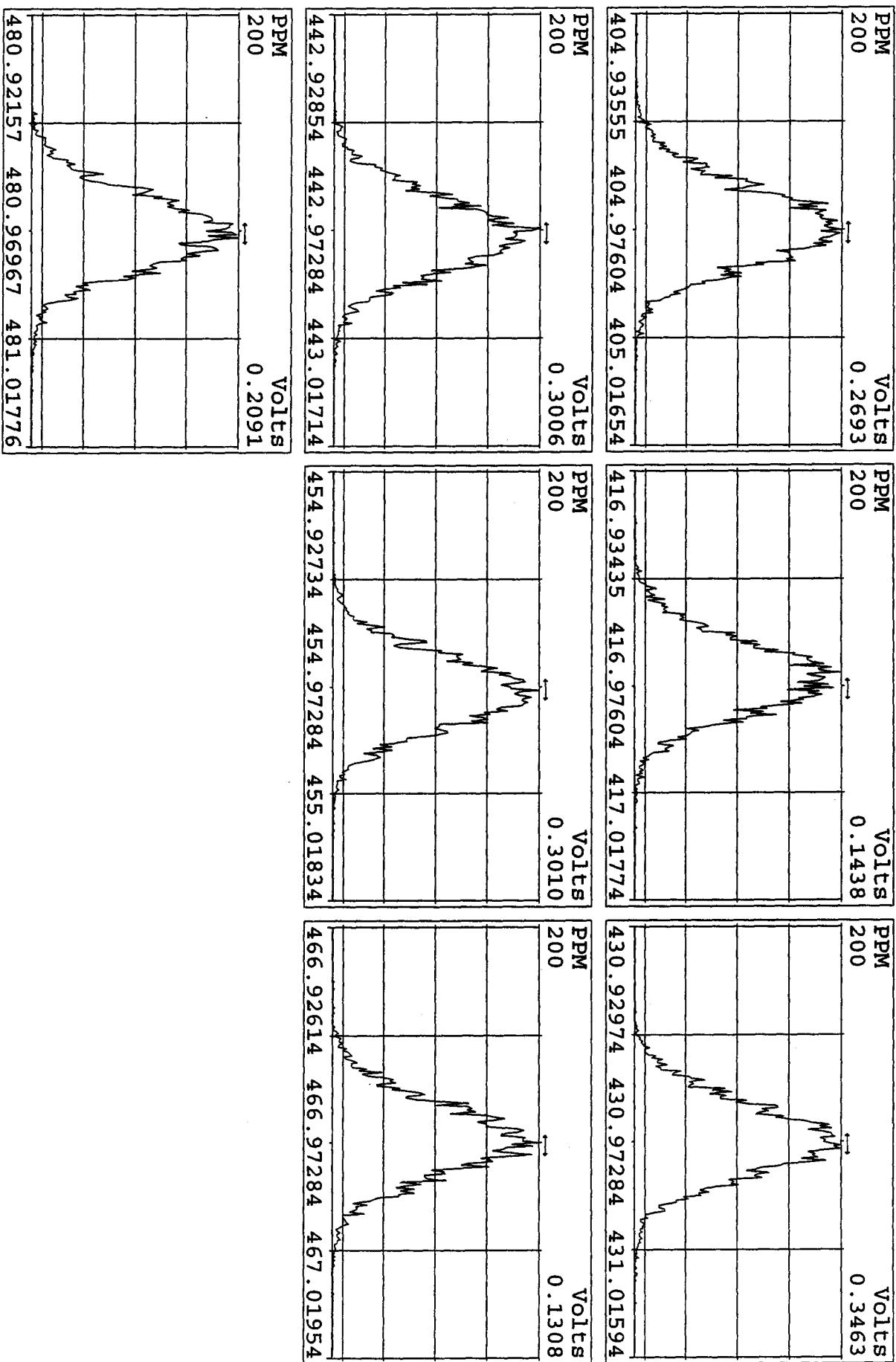
Peak Locate Examination: 1-MAY-2010:08:46 File:01MY104D5
 Experiment:DIOXINRES8290A Function:2 Reference:PFK



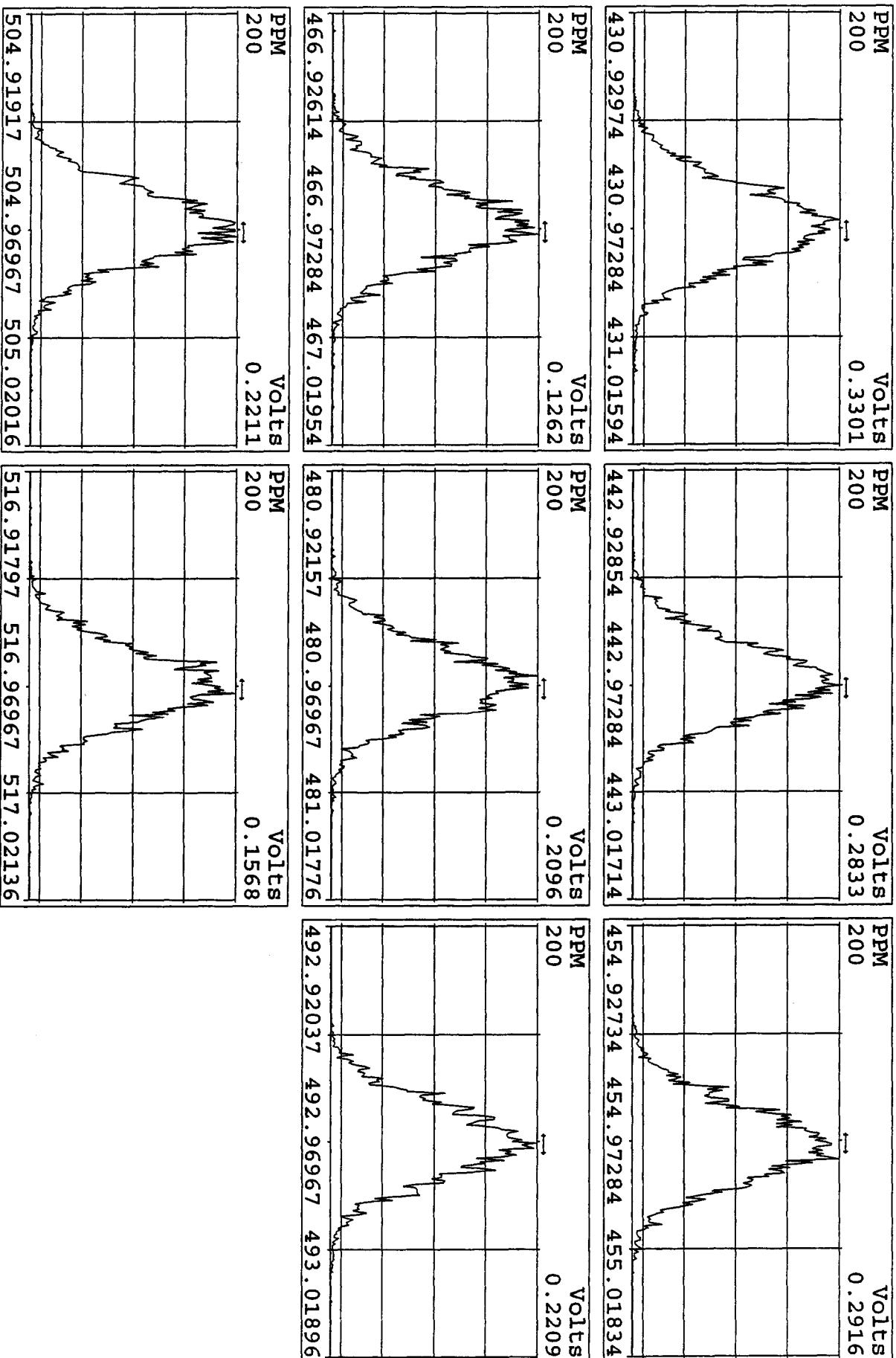
Peak Locate Examination: 1-MAY-2010:08:46 File:01MY104D5
 Experiment:DIOXINRES8290A Function:3 Reference:PFK



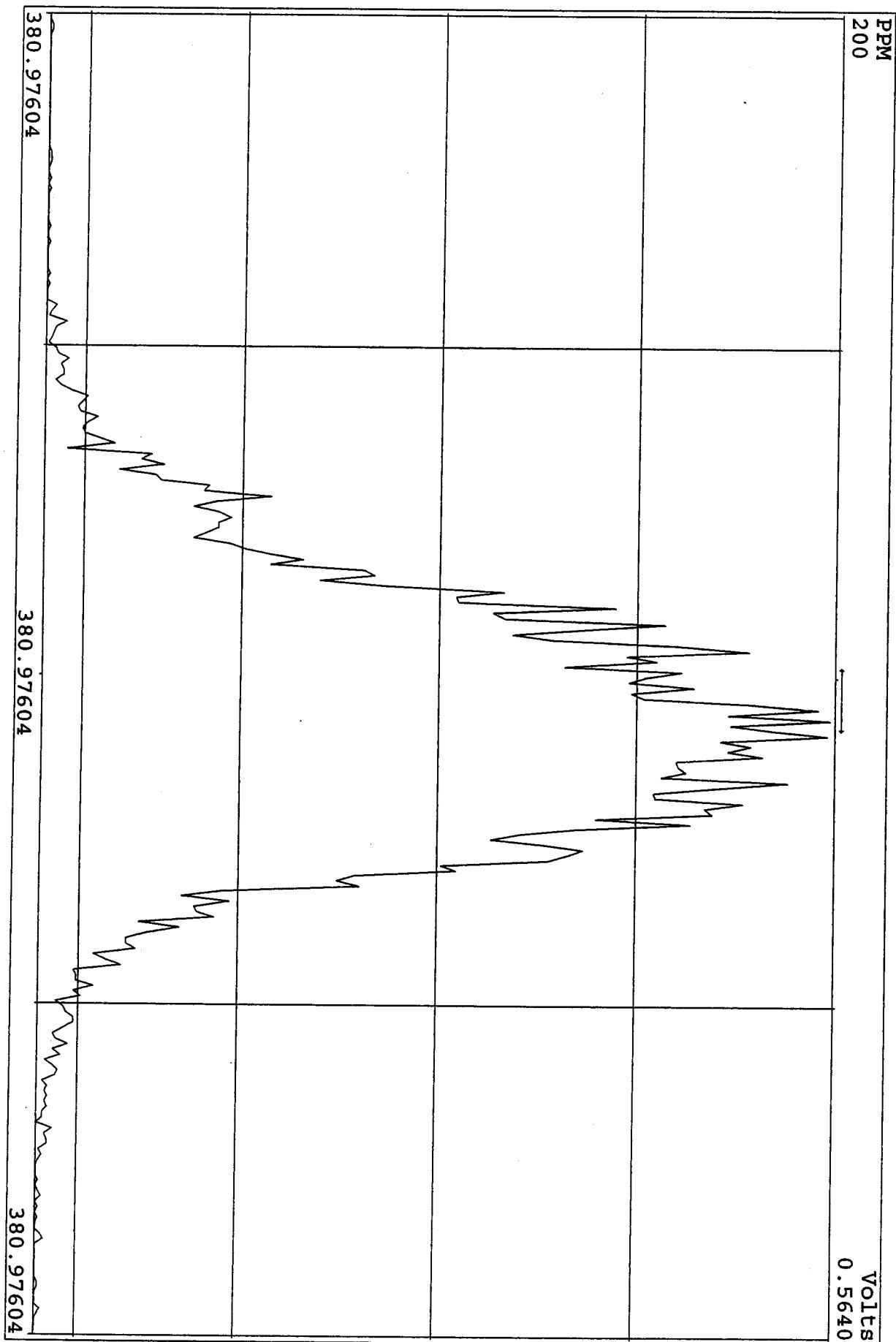
Peak Locate Examination: 1-MAY-2010:08:46 File:01MY104D5
 Experiment:DIOXINRESS8290A Function:4 Reference:PFK



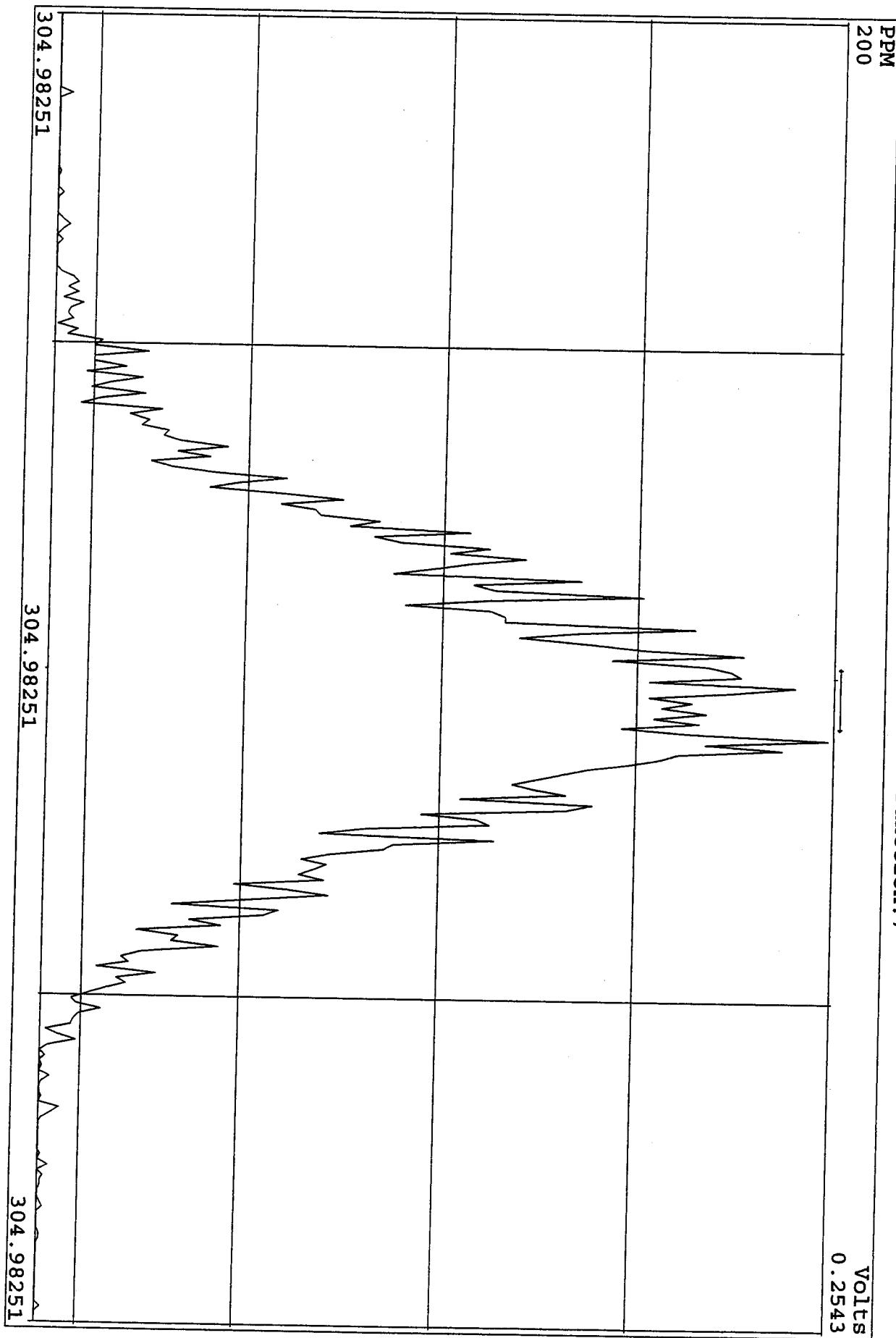
Peak Locate Examination: 1-MAY-2010:08:47 File:01MY104D5
Experiment:DIOXINRES8290A Function:5 Reference:PFK



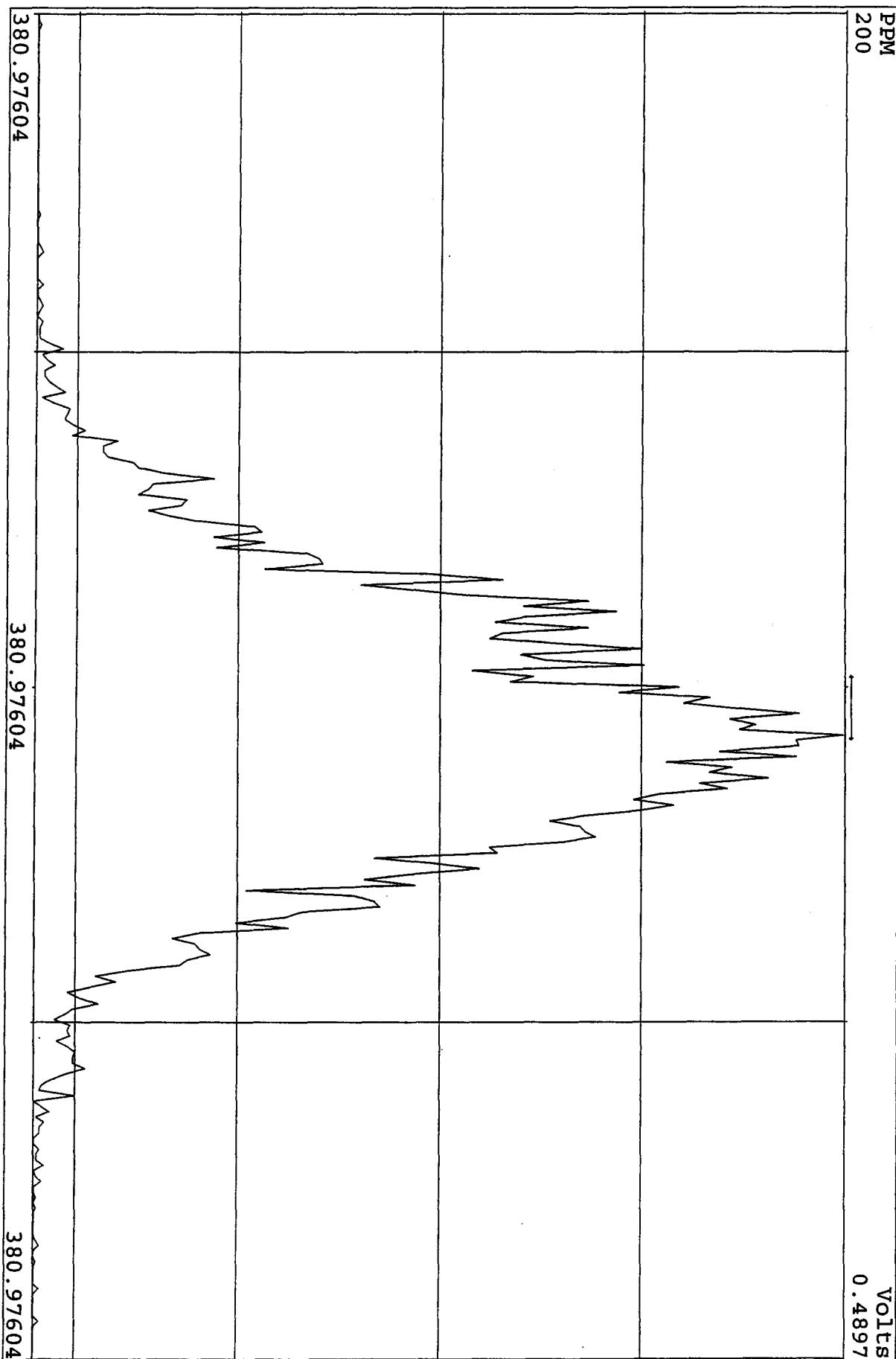
SIRLM Examination: 1-MAY-2010:19:01 File:01MY104D5
Experiment:DIOXINRES8290A Function:6



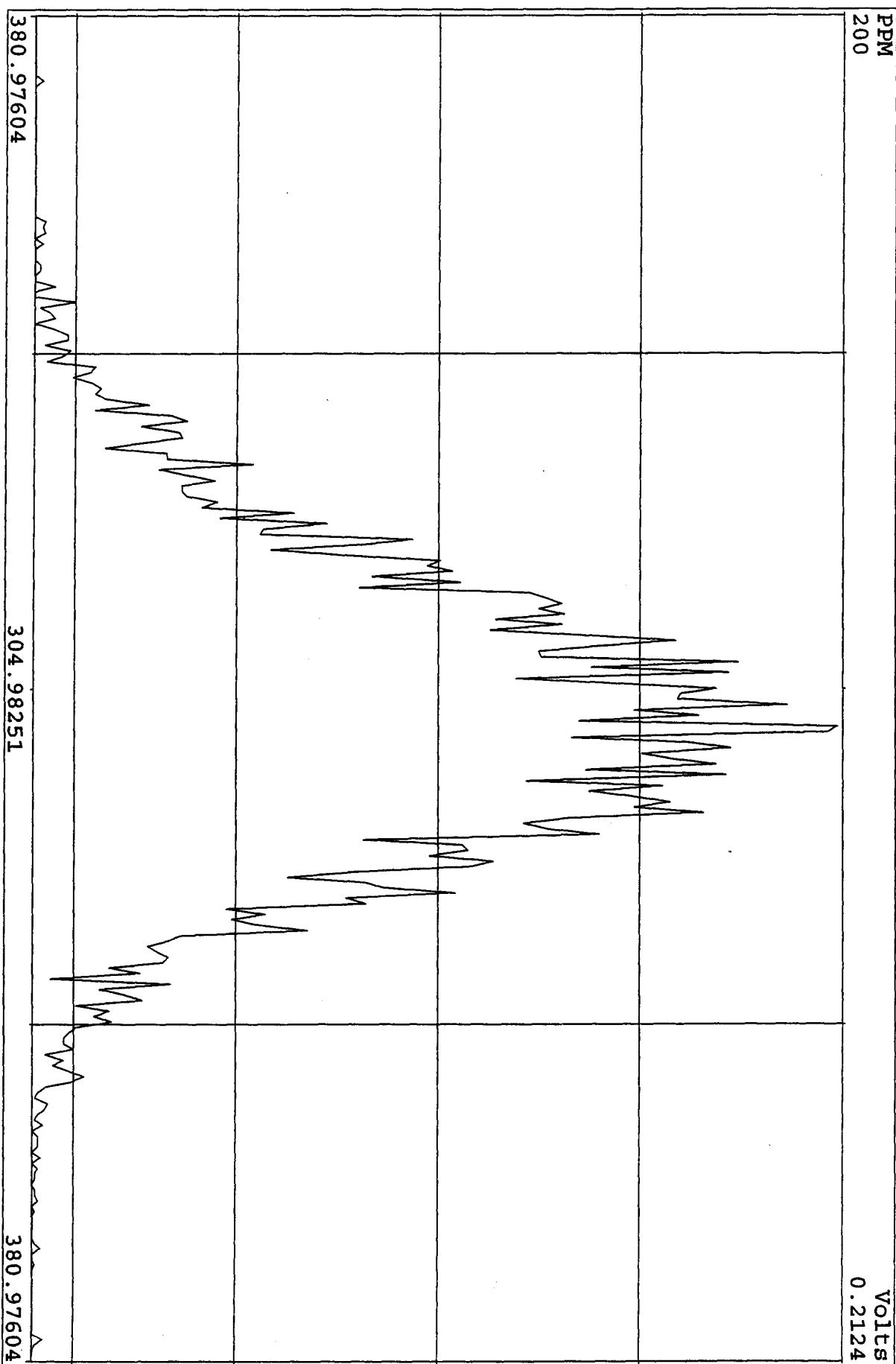
SIRLM Examination: 1-MAY-2010:19:01 File:01MY104D5
Experiment:DIOXINRES8290A Function:7



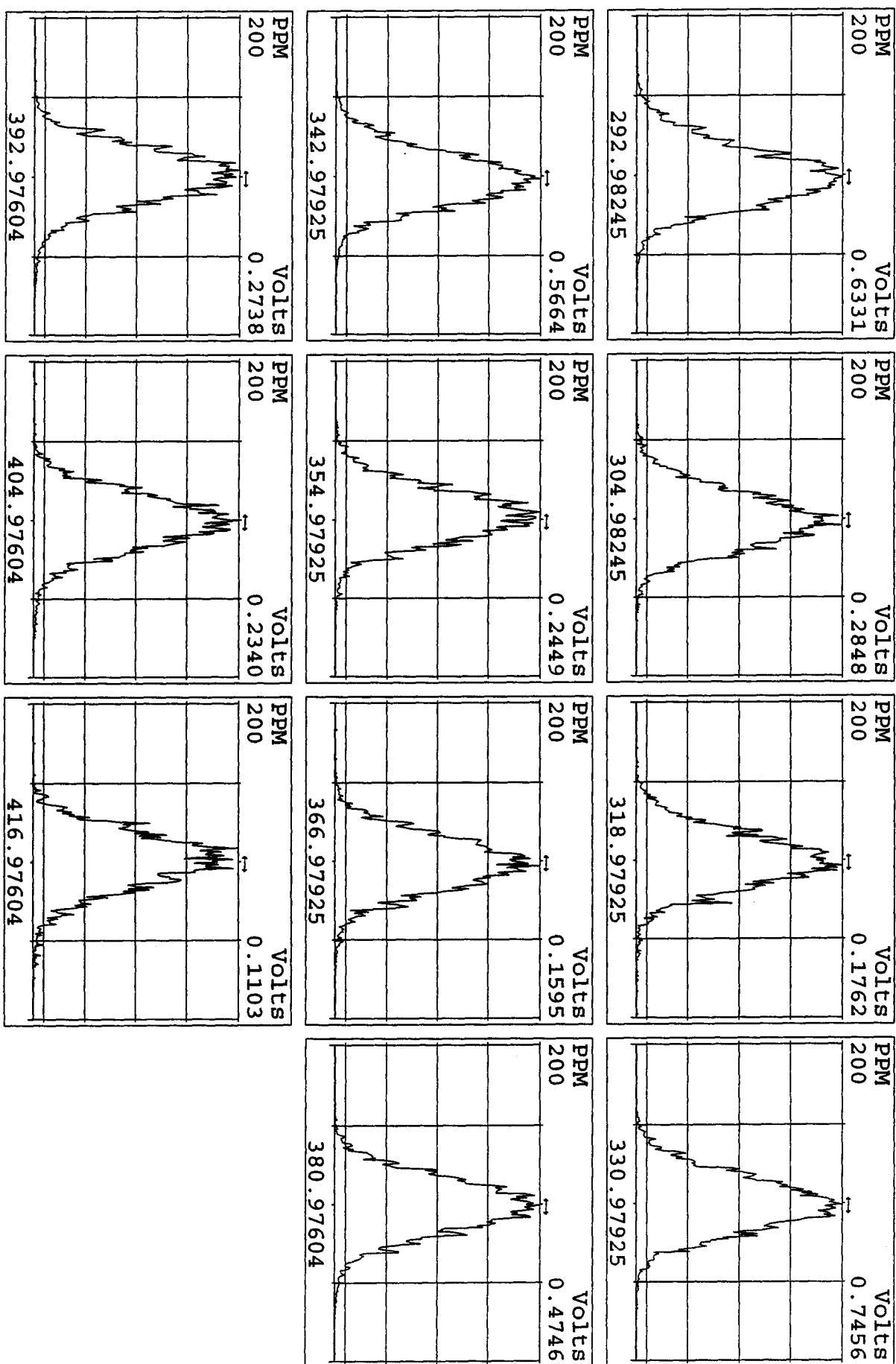
SIRLM Examination: 1-MAY-2010:22:42 File:01MY104D5
Experiment:DIOXINRES8290A Function:6



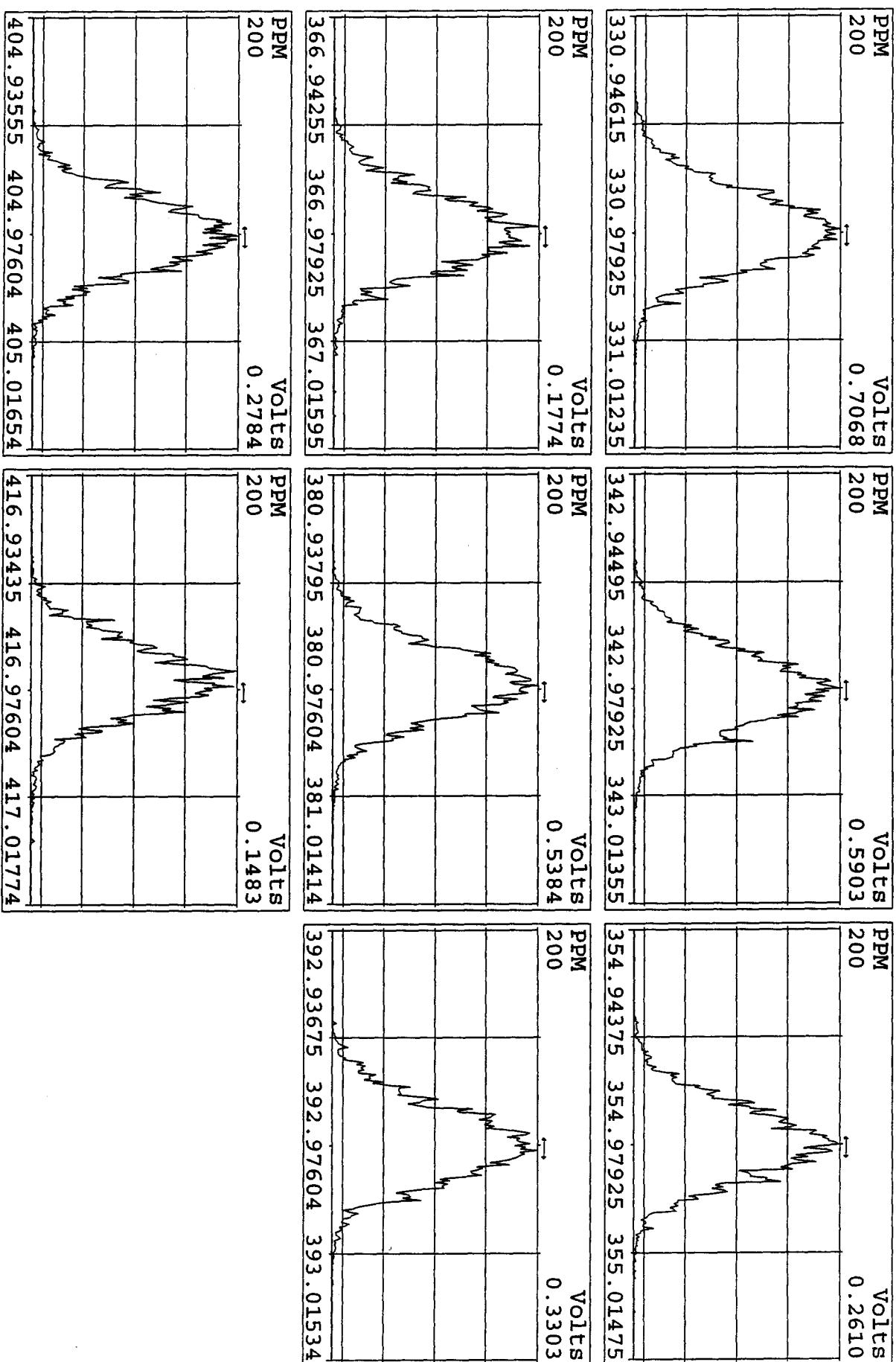
SIRLM Examination: 1-MAY-2010:22:43 File:01MY104DS
Experiment:DIOXINRES290A Function:7



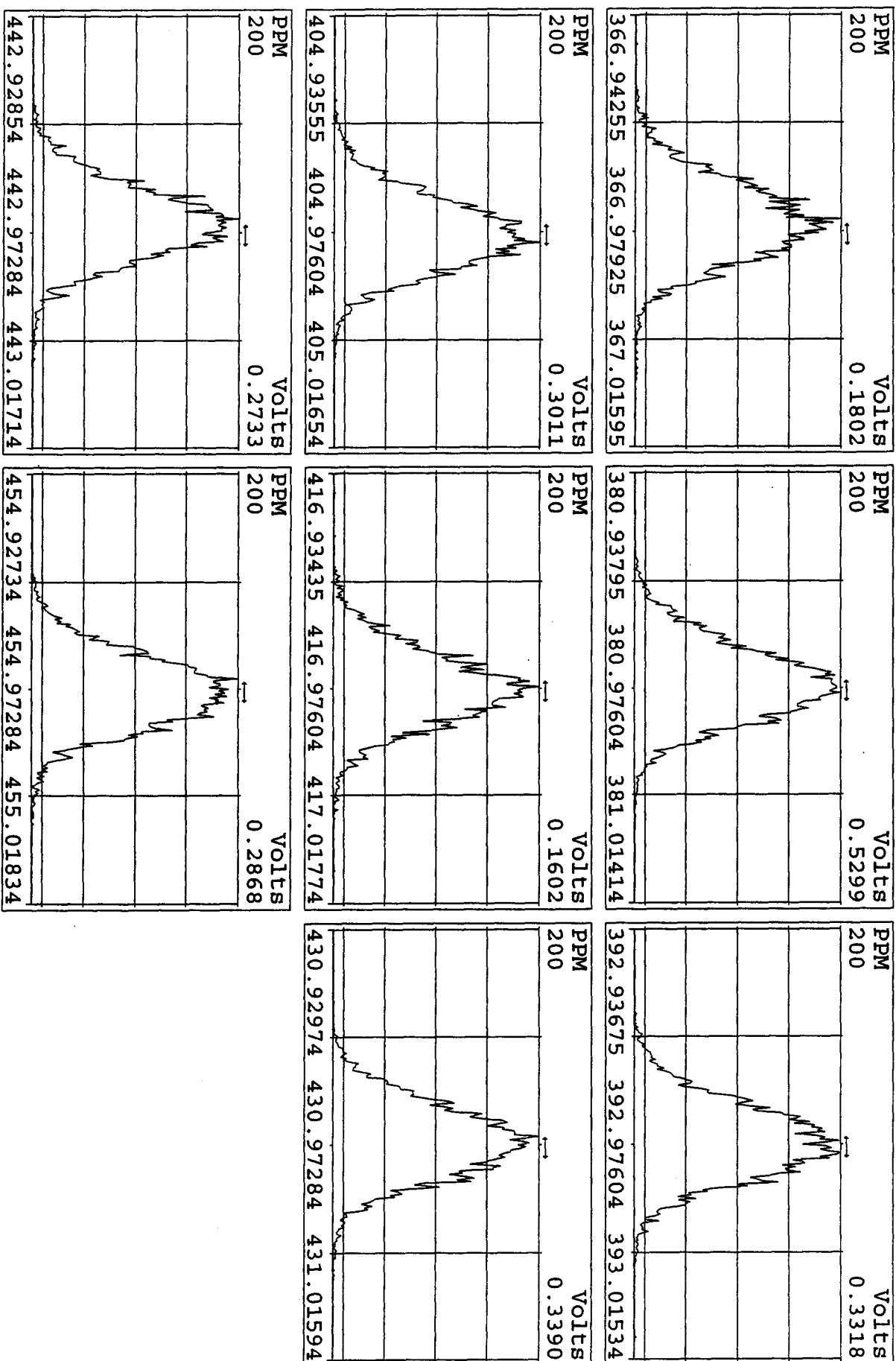
Peak Locate Examination: 2-MAY-2010:08:00 File:01MY104D5ENDRES
 Experiment:DIOXINRESS8290A Function:1 Reference:PFK



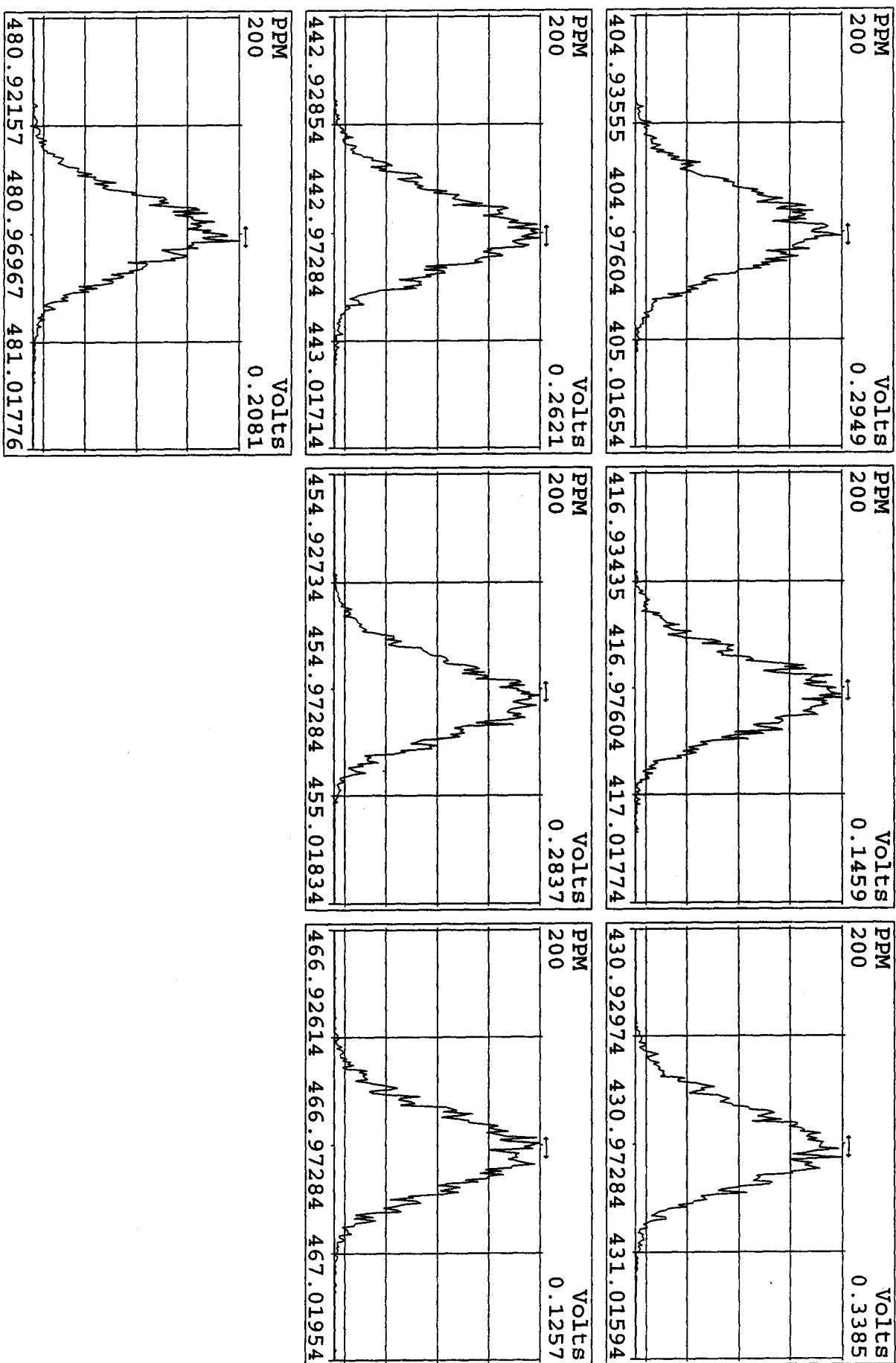
Peak Locate Examination: 2-MAY-2010:08:02 File:01MY104D5ENDRES
 Experiment:DIOXINRES8290A Function:2 Reference:PFK



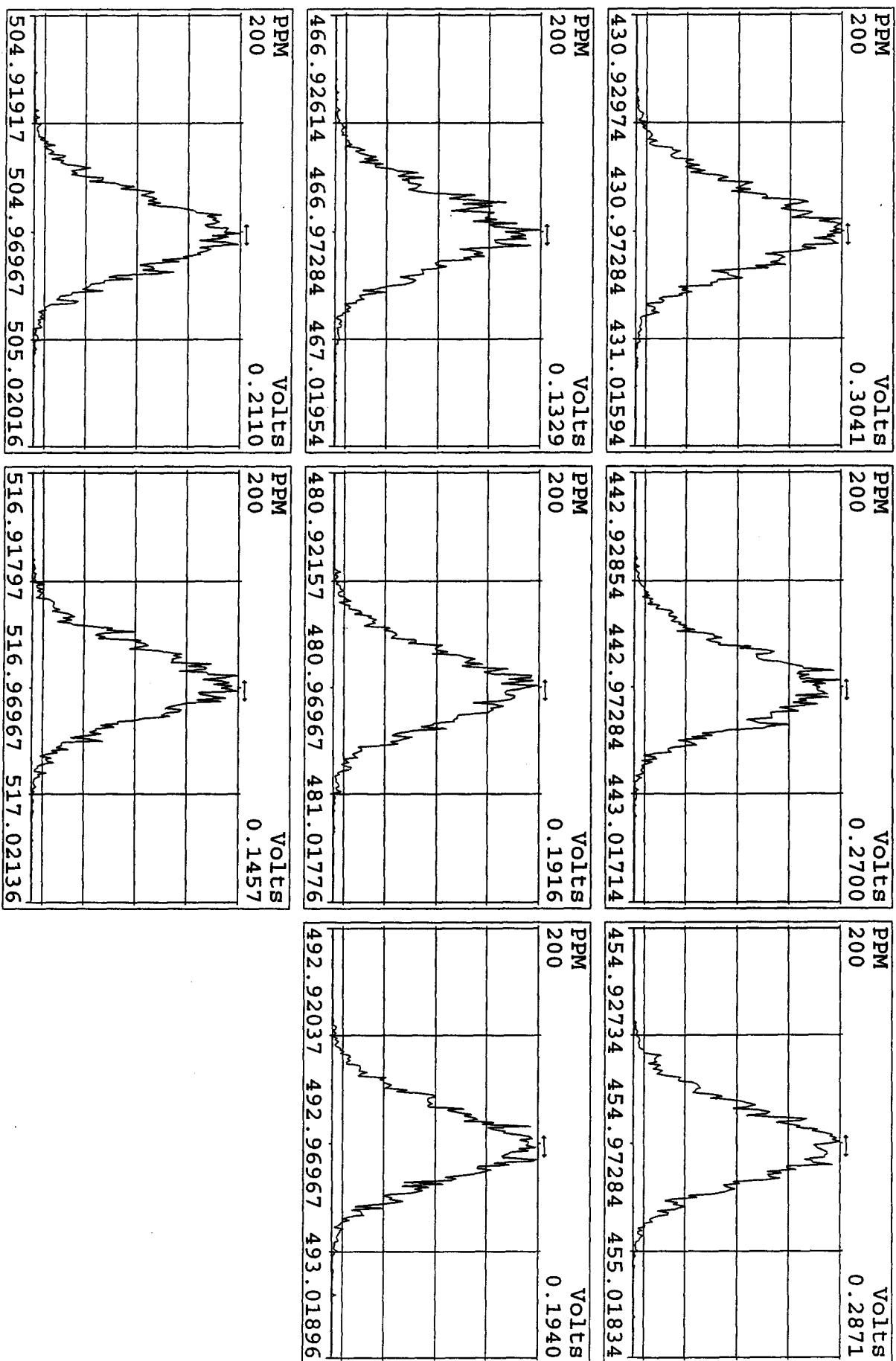
Peak Locate Examination: 2-MAY-2010:08:03 File:01MY104D5ENDRES
 Experiment:DIOXINRES8290A Function:3 Reference:PFK



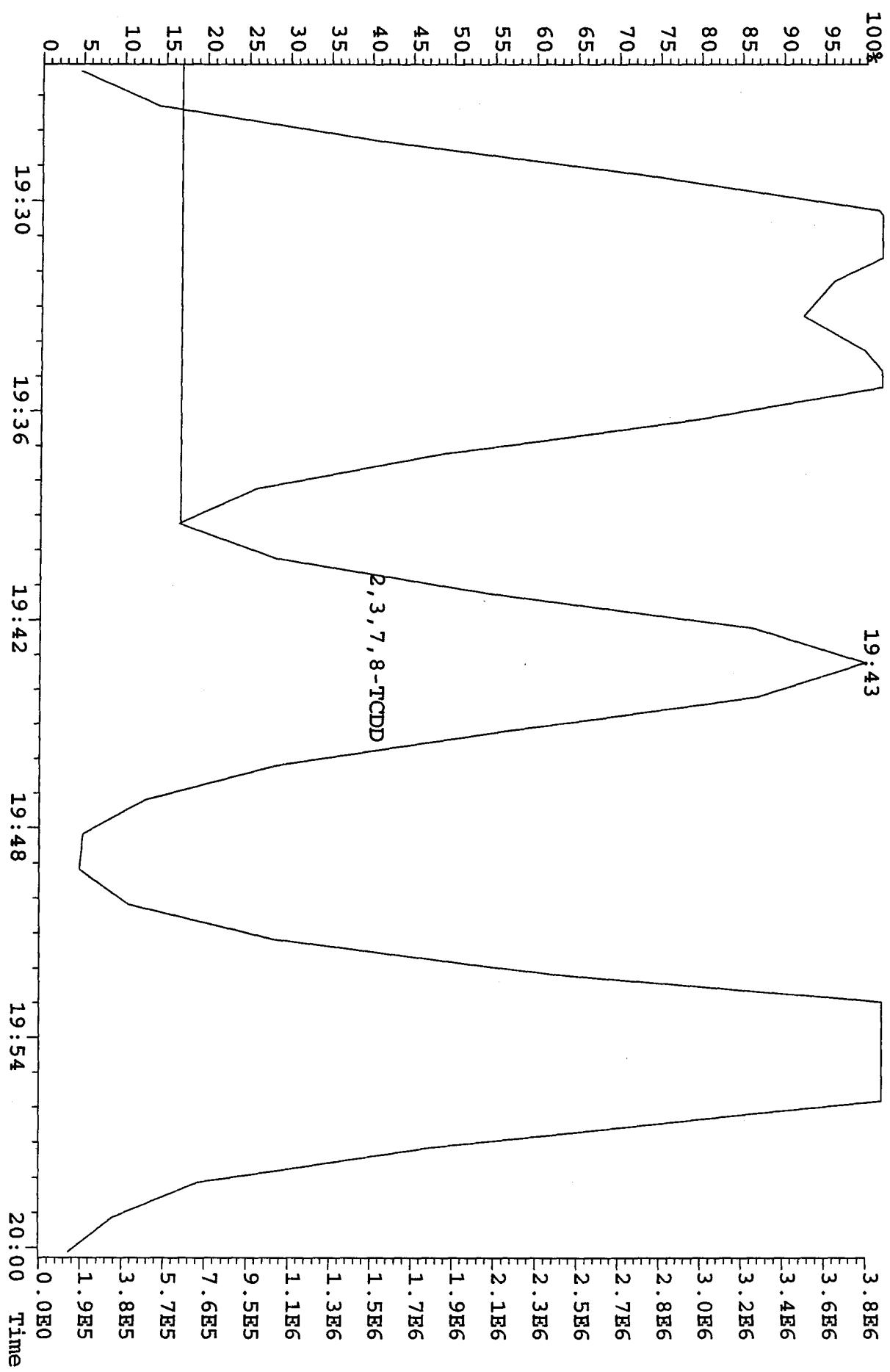
Peak Locate Examination: 2-MAY-2010:08:04 File:01MY104D5ENDRES
 Experiment:DIOXINRESS8290A Function:4 Reference:PFK



Peak Locate Examination: 2-MAY-2010:08:05 File:01MY104D5ENDRES
 Experiment:DIOXINRES8290A Function:5 Reference:PFK



File:01MY104D5 #1-433 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-UltimaE
321.8936 S:2 Exp:DIOXINRES8290A



Run: 12AP104D5 Analyte: 8290A Cal: 8290A0412104DS

ST0412B :CS-1 09DXN422

ST0412D :CS-4 09DXN426

ST0412A :CS-2 09DXN423
ST0412C :CS-5 09DXN456

ST0412 :CS-3 10DXN111

	Name	Mean	S. D.	%RSD	S4	S3	S2	S1	S5	RRF5
13C-1,2,3,4-TCDD	-	-	-	-	-	-	-	-	-	-
13C-2,3,7,8-TCDF	1.521	0.098	6.47 %	1.54	1.47	1.60	1.38	1.62		
2,3,7,8-TCDF	0.945	0.042	4.44 %	0.88	0.94	0.98	0.95	0.98		
Total TCDF	0.945	0.042	4.44 %	0.88	0.94	0.98	0.95	0.98		
13C-2,3,7,8-TCDD	0.950	0.080	8.47 %	0.94	0.87	0.95	0.91	1.08		
2,3,7,8-TCDD	1.021	0.031	3.03 %	1.00	0.98	1.04	1.04	1.05		
Total TCDD	1.021	0.031	3.03 %	1.00	0.98	1.04	1.04	1.05		
37Cl-2,3,7,8-TCDD	2.261	0.218	9.64 %	2.41	2.04	2.16	2.14	2.56		
13C-1,2,3,7,8-PeCDF	1.050	0.149	14.1 %	0.97	0.97	1.01	0.98	1.31		
1,2,3,7,8-PeCDF	1.045	0.049	4.68 %	0.97	1.02	1.09	1.09	1.06		
2,3,4,7,8-PeCDF	0.982	0.045	4.55 %	0.93	0.97	1.03	1.02	0.96		
Total F2 PeCDF	1.013	0.046	4.50 %	0.95	0.99	1.06	1.05	1.01		
Total F1 PeCDF	1.013	0.046	4.50 %	0.95	0.99	1.06	1.05	1.01		
13C-1,2,3,7,8-PeCDD	0.670	0.094	14.0 %	0.61	0.65	0.62	0.64	0.84		
1,2,3,7,8-PeCDD	0.982	0.047	4.75 %	0.94	0.93	1.04	1.01	0.99		
Total PeCDD	0.982	0.047	4.75 %	0.94	0.93	1.04	1.01	0.99		
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-		
13C-1,2,3,4,7,8-HxCDF	1.025	0.075	7.29 %	1.08	0.98	1.08	0.92	1.06		
1,2,3,4,7,8-HxCDF	1.213	0.061	5.00 %	1.12	1.18	1.25	1.28	1.23		
1,2,3,6,7,8-HxCDF	1.343	0.096	7.13 %	1.20	1.34	1.46	1.38	1.33		
2,3,4,6,7,8-HxCDF	1.222	0.064	5.27 %	1.13	1.19	1.29	1.26	1.23		
1,2,3,7,8,9-HxCDF	1.092	0.072	6.60 %	1.02	1.02	1.15	1.17	1.10		
Total HxCDF	1.218	0.070	5.72 %	1.12	1.18	1.29	1.27	1.22		
13C-1,2,3,6,7,8-HxCDD	0.807	0.060	7.46 %	0.81	0.77	0.86	0.72	0.87		
1,2,3,4,7,8-HxCDD	1.007	0.056	5.54 %	0.93	1.02	1.04	1.07	0.98		

1,2,3,6,7,8-HxCDD	1.114	0.059	5.33 %	1.06	1.06	1.19	1.16	1.16	1.11
1,2,3,7,8,9-HxCDD	1.209	0.083	6.88 %	1.12	1.12	1.17	1.22	1.34	1.19
Total HxCDD	1.110	0.061	5.46 %	1.04	1.08	1.15	1.19	1.09	
13C-1,2,3,4,6,7,8-HpCDF	0.863	0.061	7.10 %	0.87	0.82	0.95	0.79	0.88	
1,2,3,4,6,7,8-HpCDF	1.310	0.072	5.52 %	1.20	1.28	1.39	1.36	1.32	
1,2,3,4,7,8,9-HpCDF	1.026	0.053	5.19 %	0.95	1.00	1.09	1.06	1.03	
Total HpCDF	1.168	0.063	5.36 %	1.08	1.14	1.24	1.21	1.18	
13C-1,2,3,4,6,7,8-HpCDD	0.697	0.052	7.39 %	0.71	0.67	0.77	0.64	0.71	
1,2,3,4,6,7,8-HpCDD	1.072	0.039	3.60 %	1.03	1.03	1.11	1.11	1.08	
Total HpCDD	1.072	0.039	3.60 %	1.03	1.03	1.11	1.11	1.08	
13C-OCDD	0.531	0.041	7.69 %	0.53	0.49	0.58	0.49	0.57	
OCDF	1.445	0.085	5.85 %	1.32	1.39	1.51	1.50	1.50	
OCDD	1.166	0.060	5.16 %	1.08	1.14	1.23	1.21	1.17	

File:01MY104D5 #1-435 Acq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#:1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINRES8290A
303.9016 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,584.0,1.00%,F,T)
100 %

A9.50E6

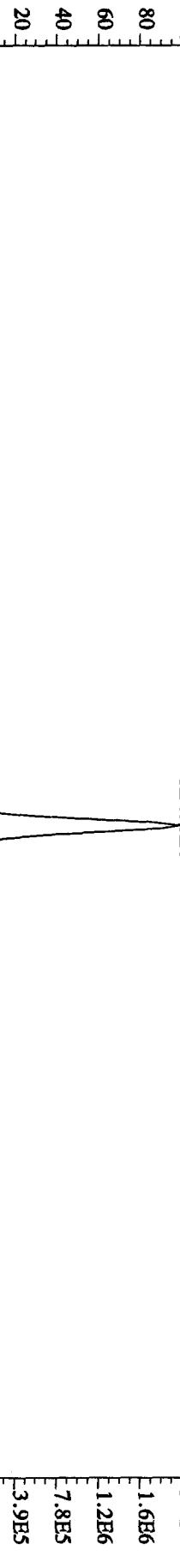
2.0E6

1.6E6

1.2E6

7.8E5

3.9E5



315.9419 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3780.0,1.00%,F,T)
100 %

A9.97E7

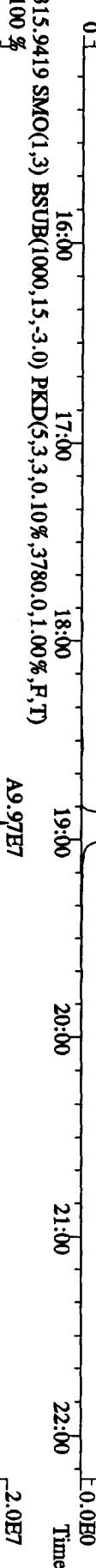
2.0E7

1.6E7

1.2E7

8.1E6

4.1E6



317.9389 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3032.0,1.00%,F,T)
100 %

A1.24E8

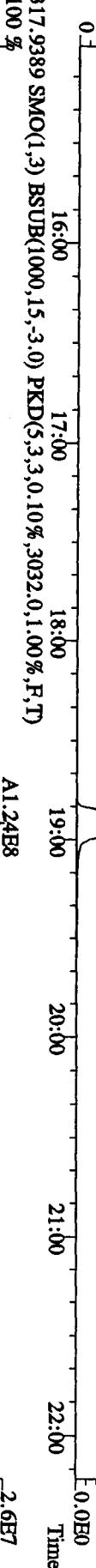
2.6E7

2.0E7

1.5E7

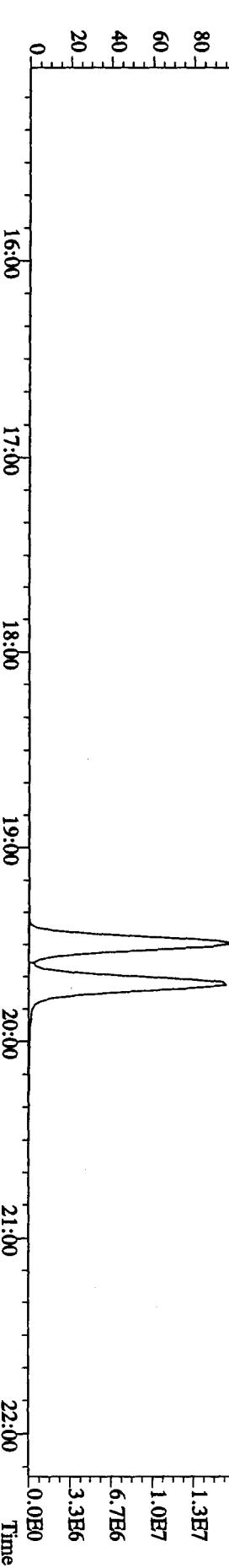
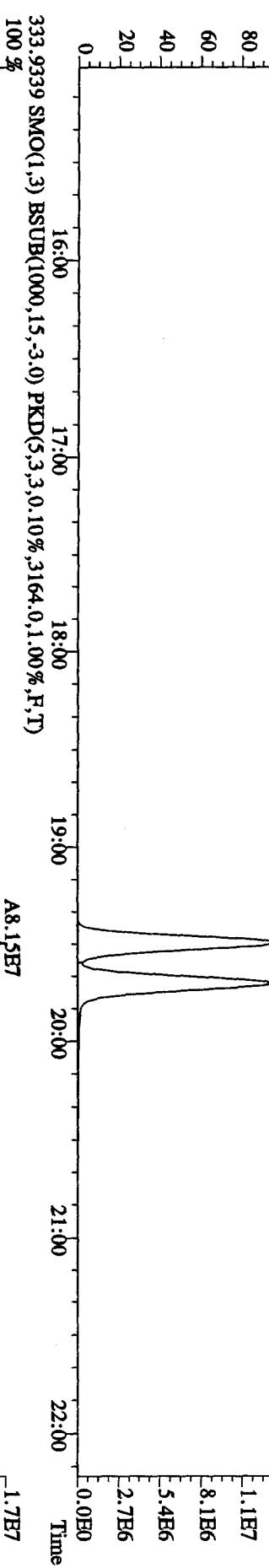
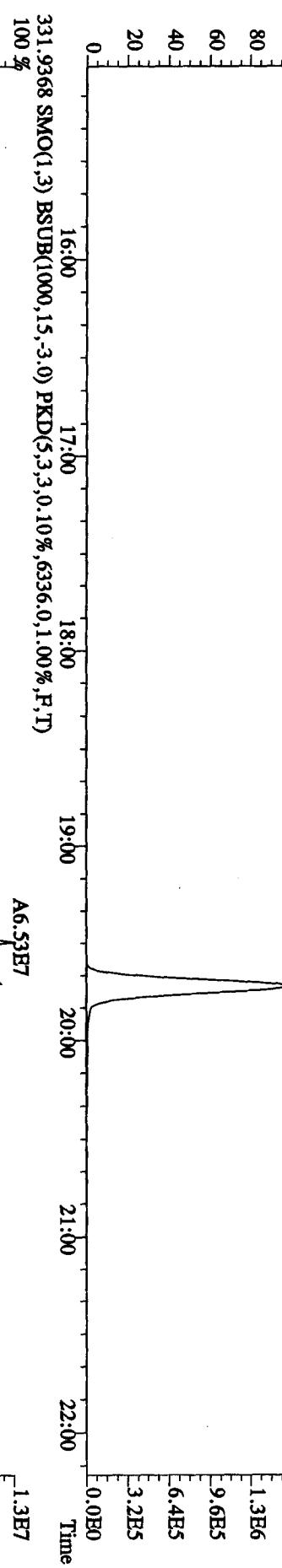
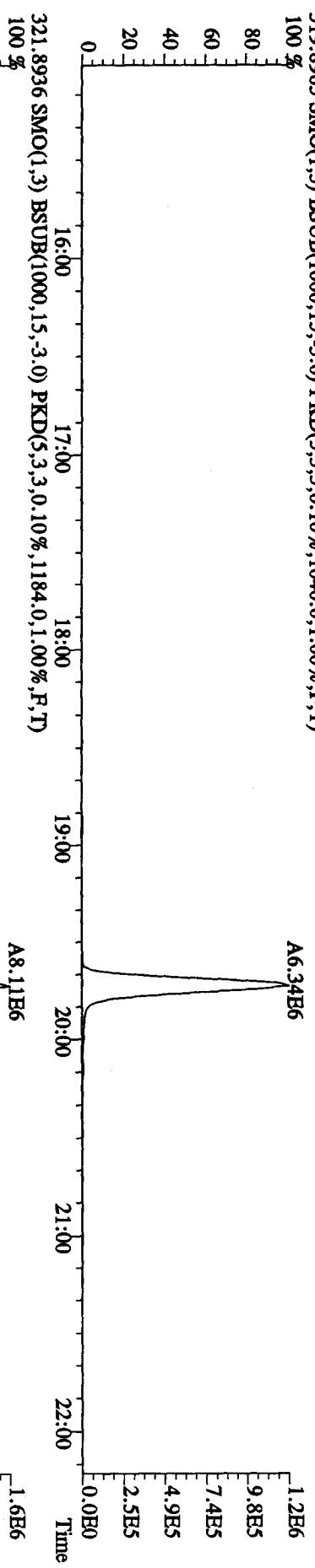
1.0E7

5.1E6

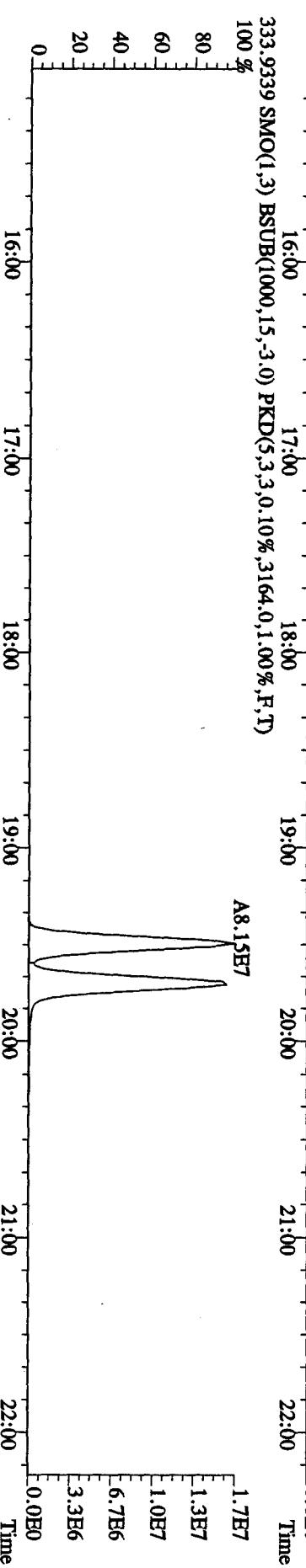
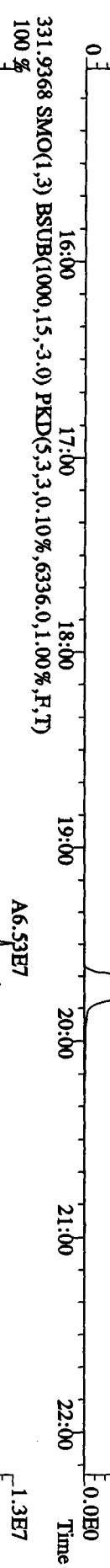
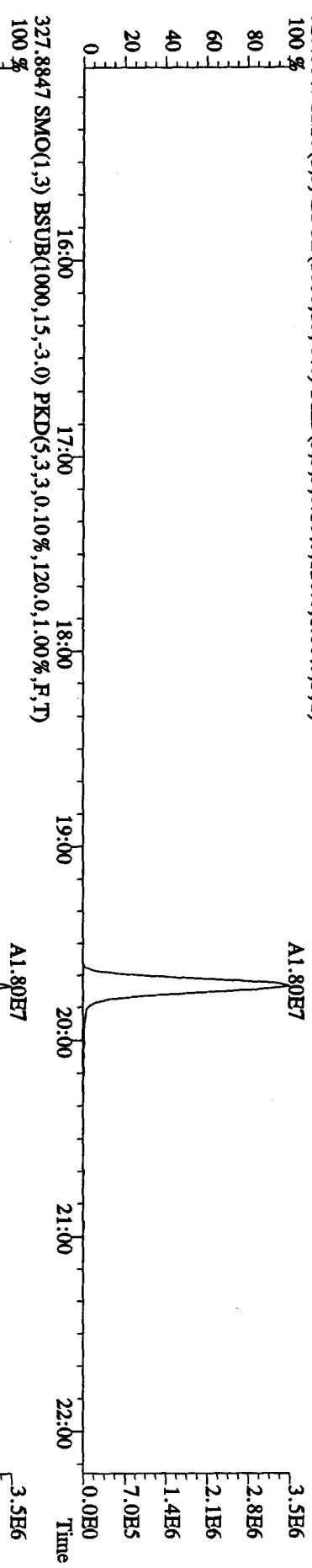


G0D130519 TestAmerica West Sacramento (916) 373 - 5600 119 of 314

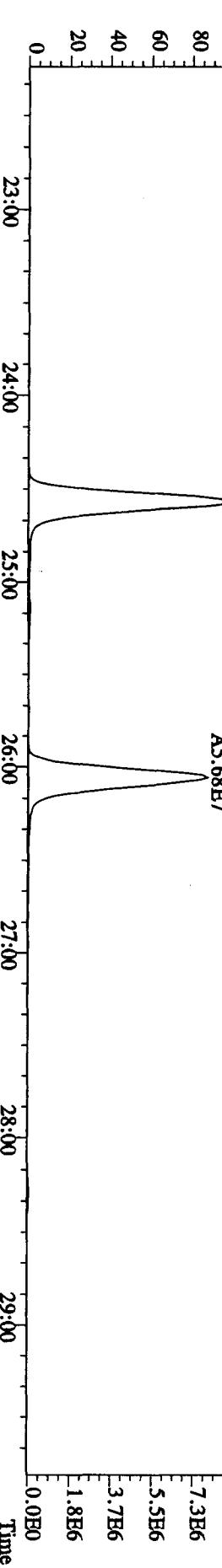
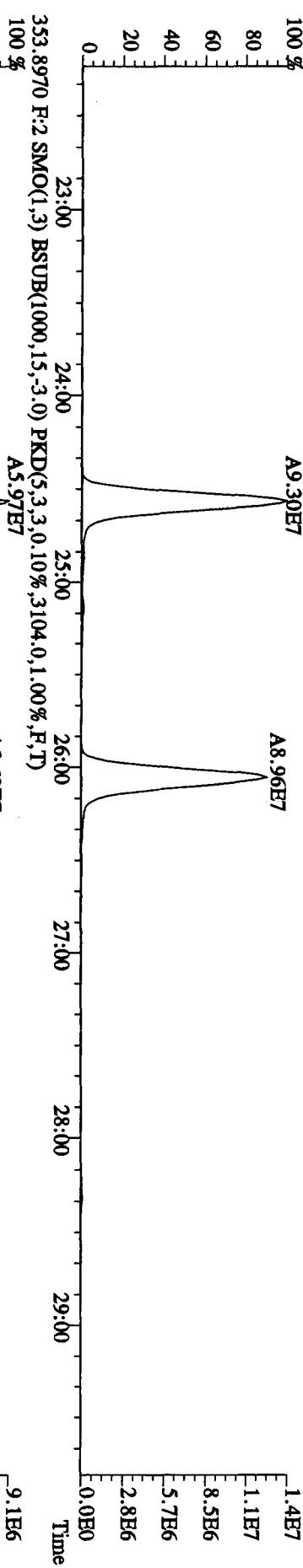
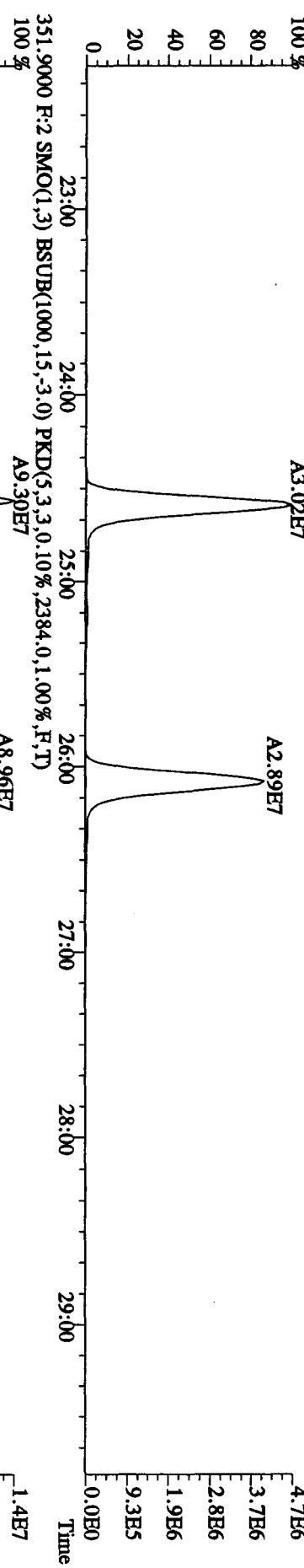
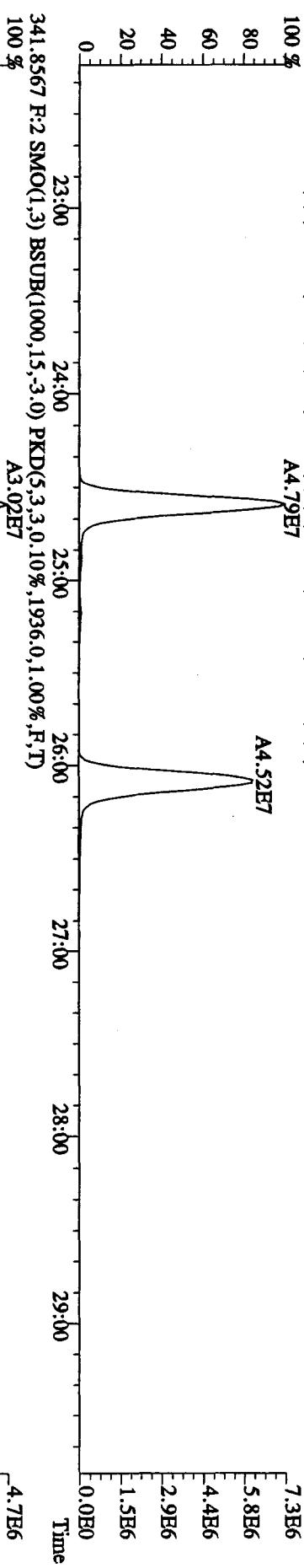
File:01MY104D5 #1-435 Acq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINRES8290A
 319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1040.0,1.00%,F,T)
 100 %
 80
 60
 40
 20
 0



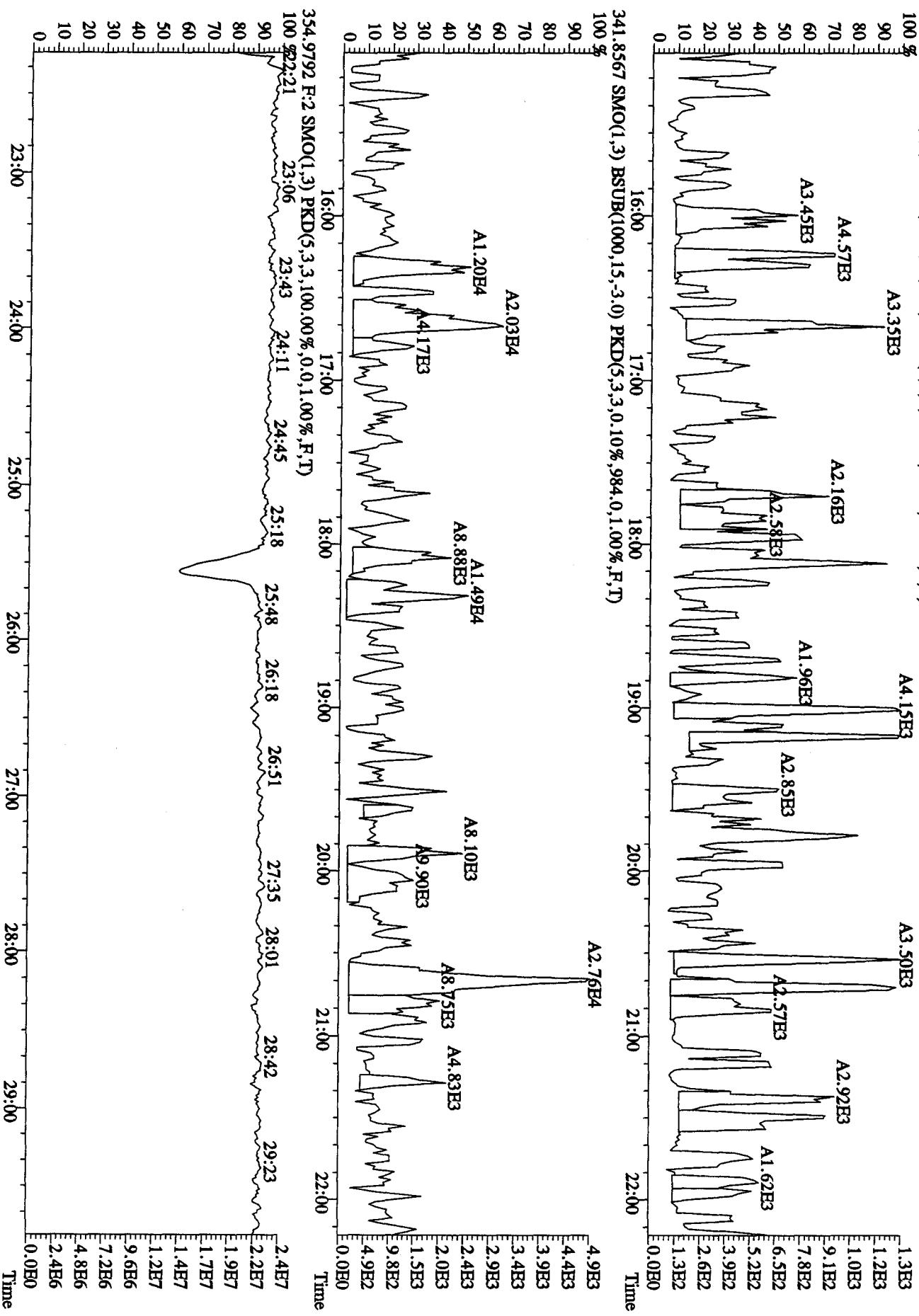
File:01MY104D5 #1-435 Acq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 Text:ST0501 :GS3 10DXN083 Exp:DIOXINRES8290A
 327.8847 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,120.0,1.00%,F,T)
 100 % 3.5H6
 80 2.8E6
 60 2.1E6
 40 1.4E6
 20 7.0E5



File:01MY104D5 #1-604 Acq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINRES8290A
 339.8597 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2020,0,1.00%,F,T)
 100 % A4.79E7
 80 %
 60 %
 40 %
 20 %
 0 %



File:01MY104D5 #1-435 Acq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-UltimaE
 Sample:#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINRES8290A
 339.8597 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,436.0,1.00%,F,T)



File:01MY104D5 #1-604 Acq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-UltimaE

Sample#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINRES8290A

355.8546 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1564.0,1.00%,F,T)

100 %

A2.95E7

3.8E6

3.1E6

2.3E6

1.5E6

7.7E5

0.0E0



357.8516 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,656.0,1.00%,F,T)

100 %

A1.87E7

2.5E6

2.0E6

1.5E6

9.8E5

4.9E5

0.0E0



367.8949 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1656.0,1.00%,F,T)

100 %

A6.41E7

8.4E6

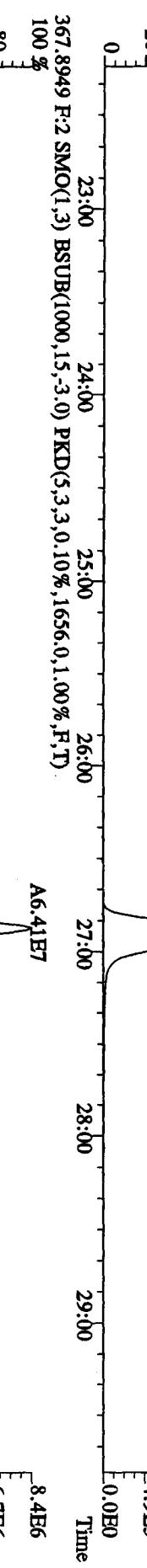
6.7E6

5.0E6

3.3E6

1.7E6

0.0E0



369.8919 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,192.0,1.00%,F,T)

100 %

A4.11E7

5.5E6

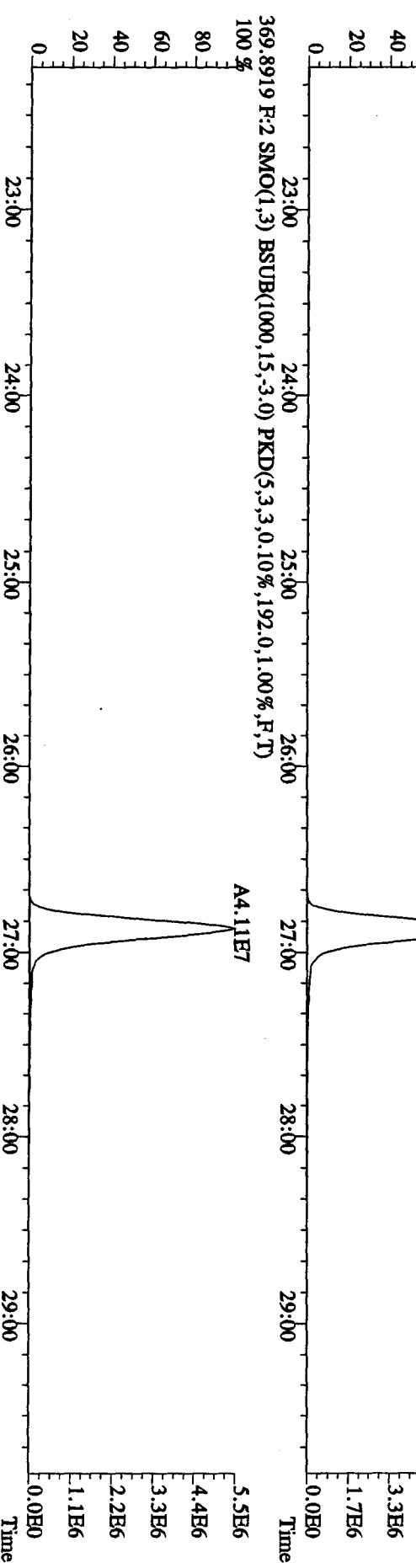
4.4E6

3.3E6

2.2E6

1.1E6

0.0E0

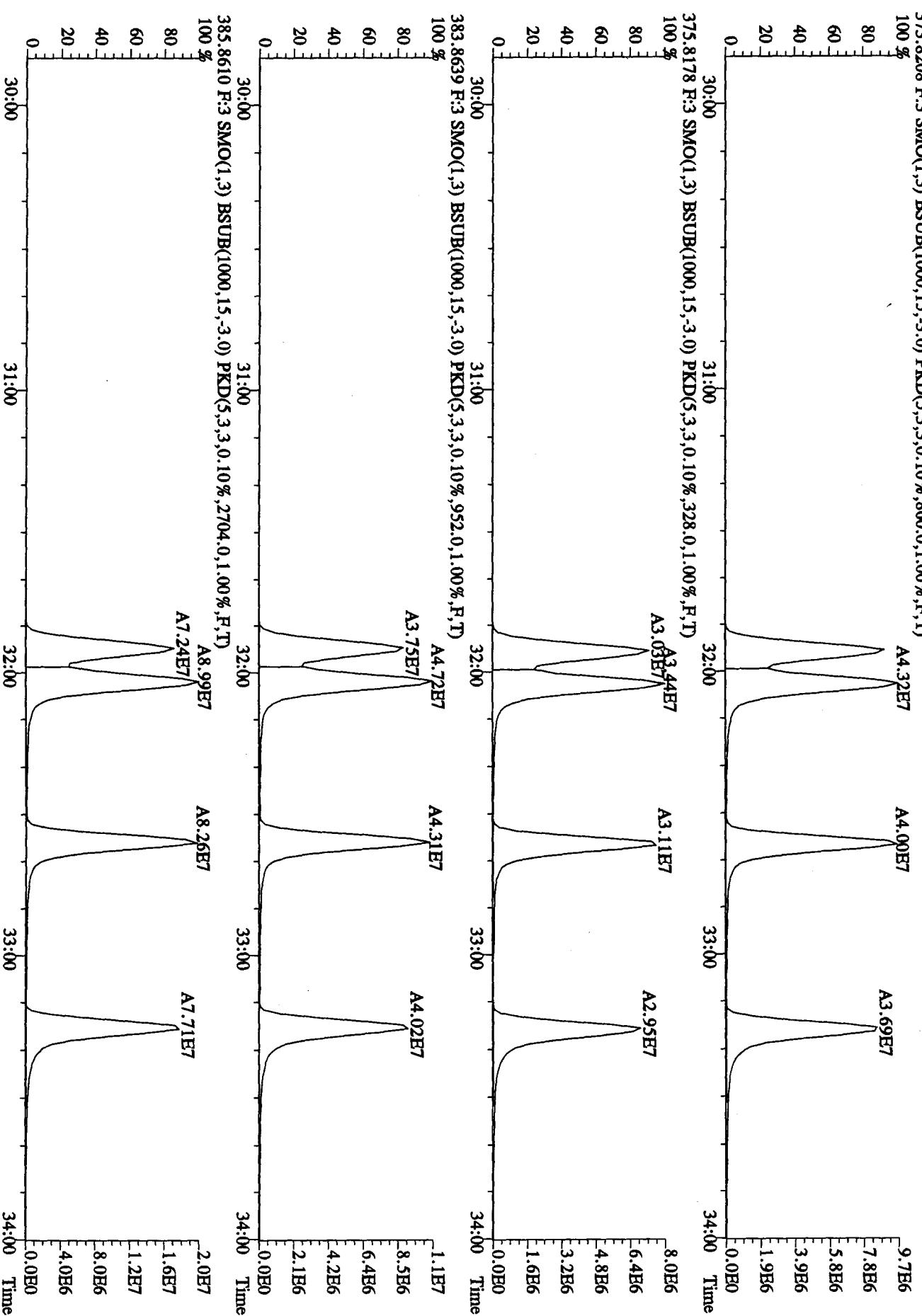
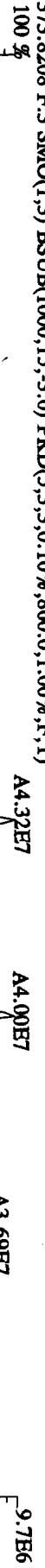


File:01MY104D5 #1-316 Acq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-UltimaB

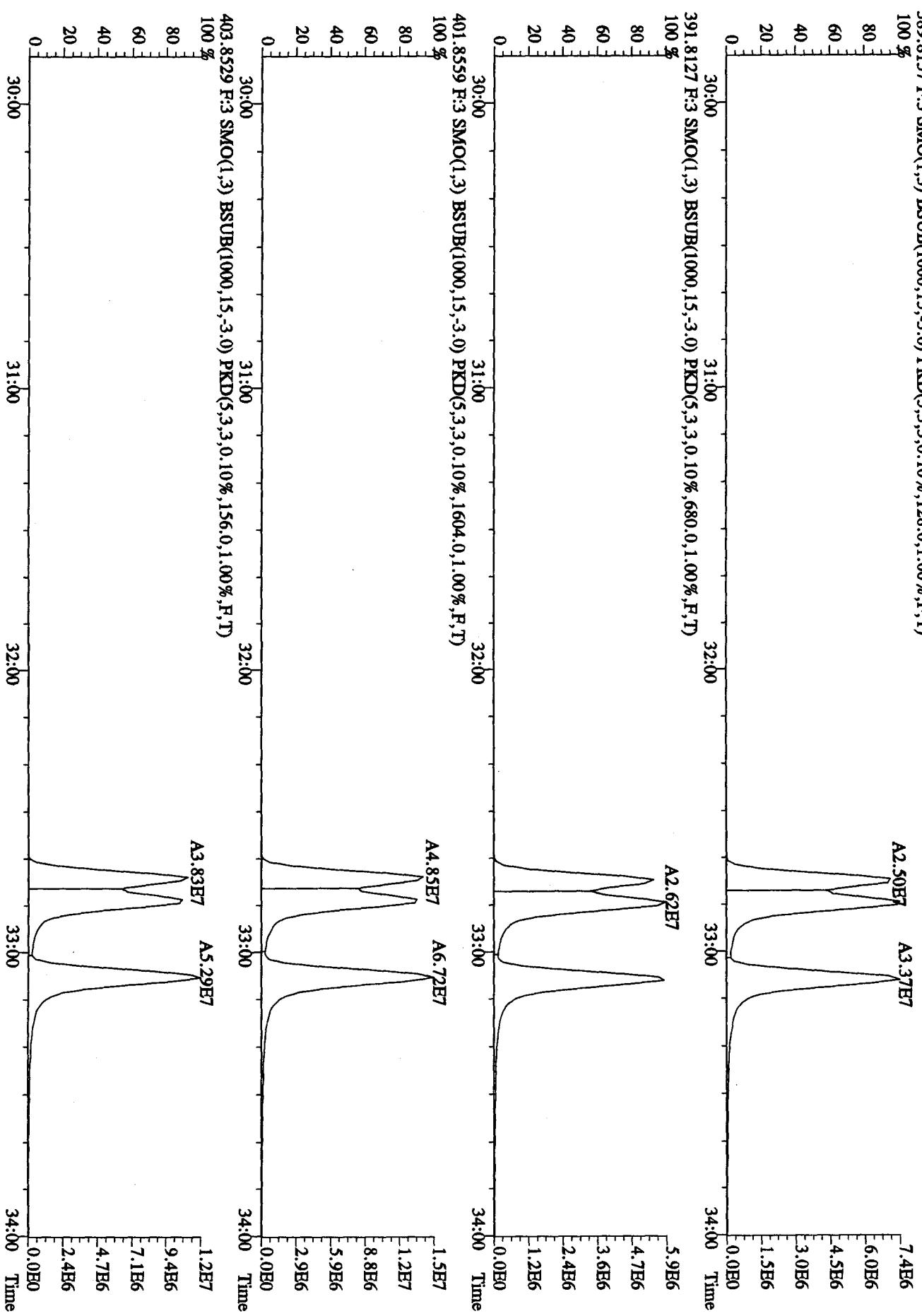
Sample#1 Text:ST0501 ;CS3 10DXN083 Exp:DIOXINRES8290A

373.8208 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,860,0,1.00%,F,T)

100 %



File:01MY104D5 #1-316 Acq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 Text:ST0501 :CS3 10DXN083 Exp: DIOXINRES8290A
 389.8157 R:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,128.0,1.00%,F,T)
 100 %
 80
 60
 40
 20
 0



Sample#1 Text:ST0501 .CS3 10DXN083 Exp:DIOXINRBS8290A

407.7818 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9416.0,1.00%,F,T)

100 % A3.09E7

7.3E6

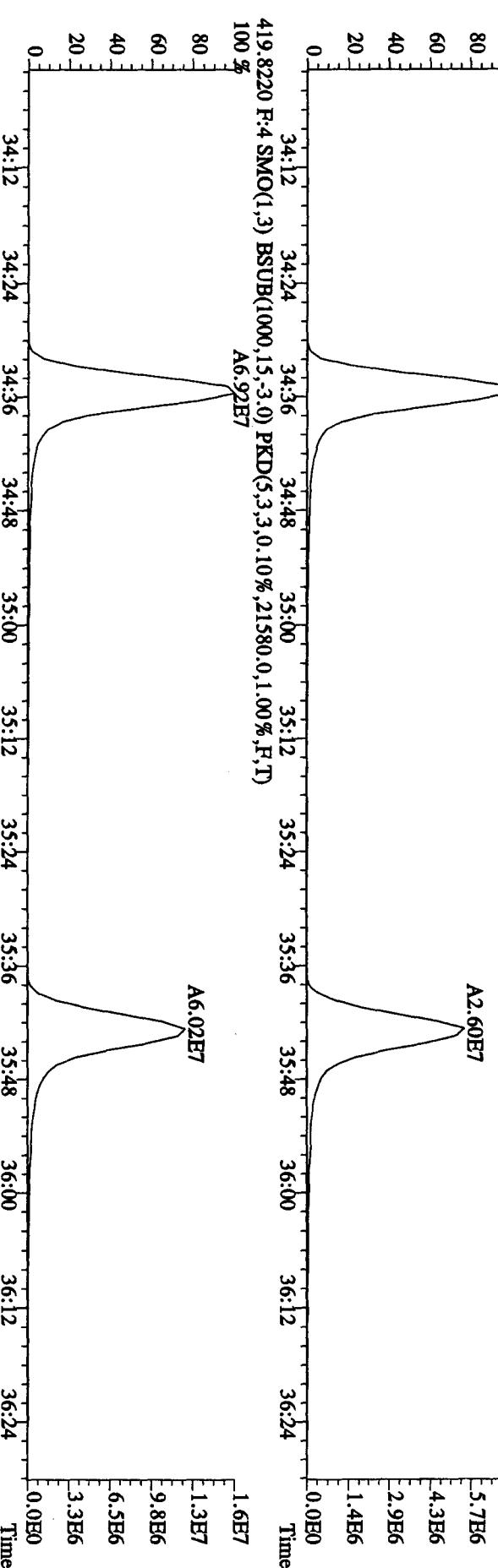
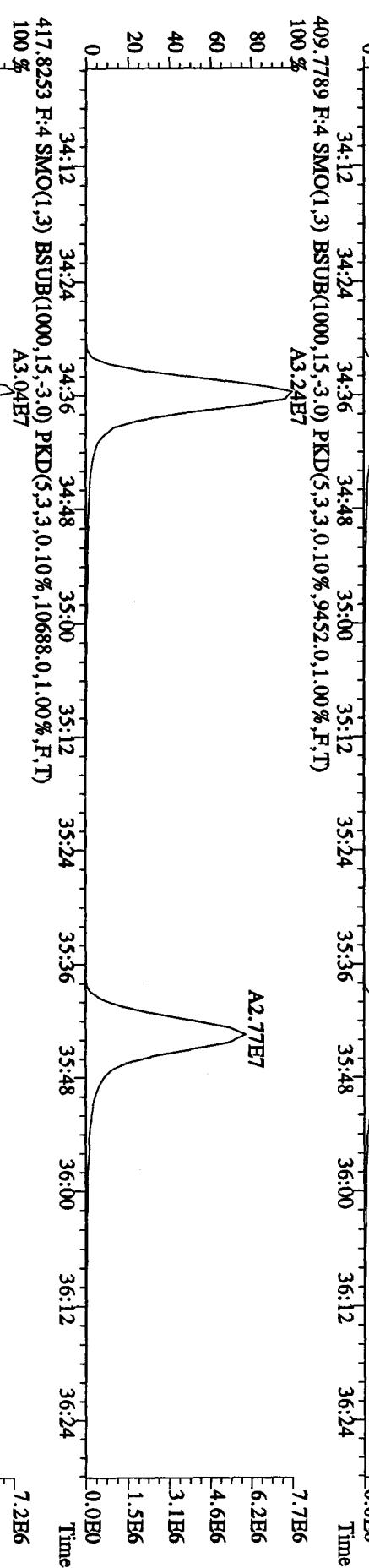
5.8E6

4.4E6

2.9E6

1.5E6

0.0E0



File:01MY104D5 #1-198 Acq: 1-MAY-2010 08:48:19 GC El+ Voltage SIR Autospec-UltimaB

Sample#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINRES8290A

423.7766 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4352.0,1.00%,F,T)

100 %

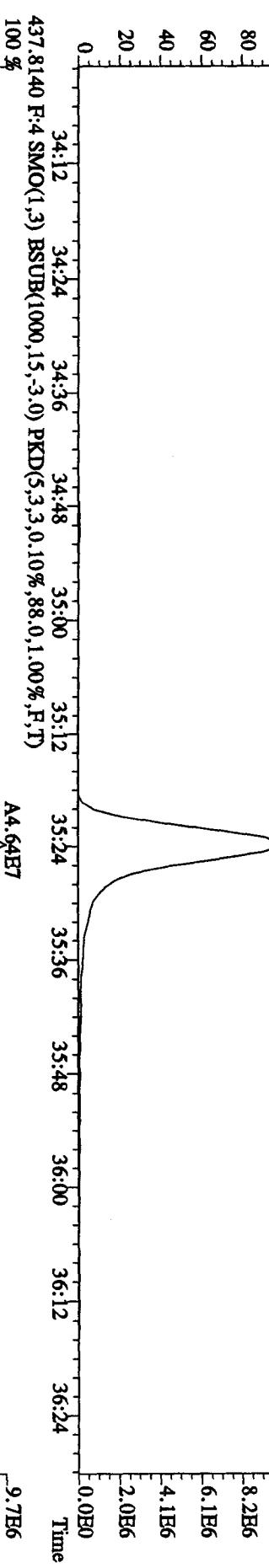
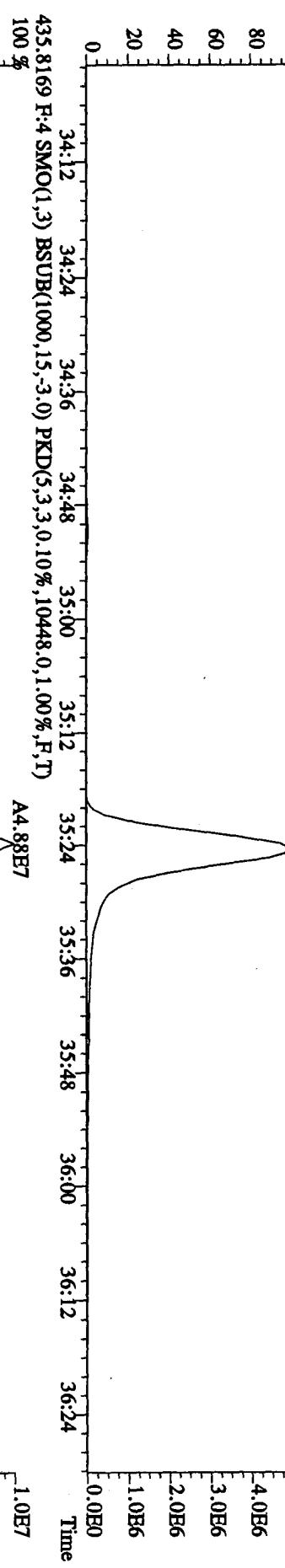
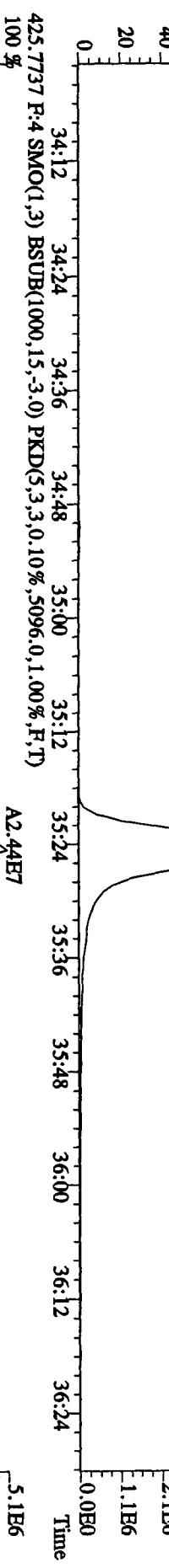
80

60

40

20

0



437.8140 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,88.0,1.00%,F,T)

100 %

80

60

40

20

0

34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 Time

9.7E6

7.7E6

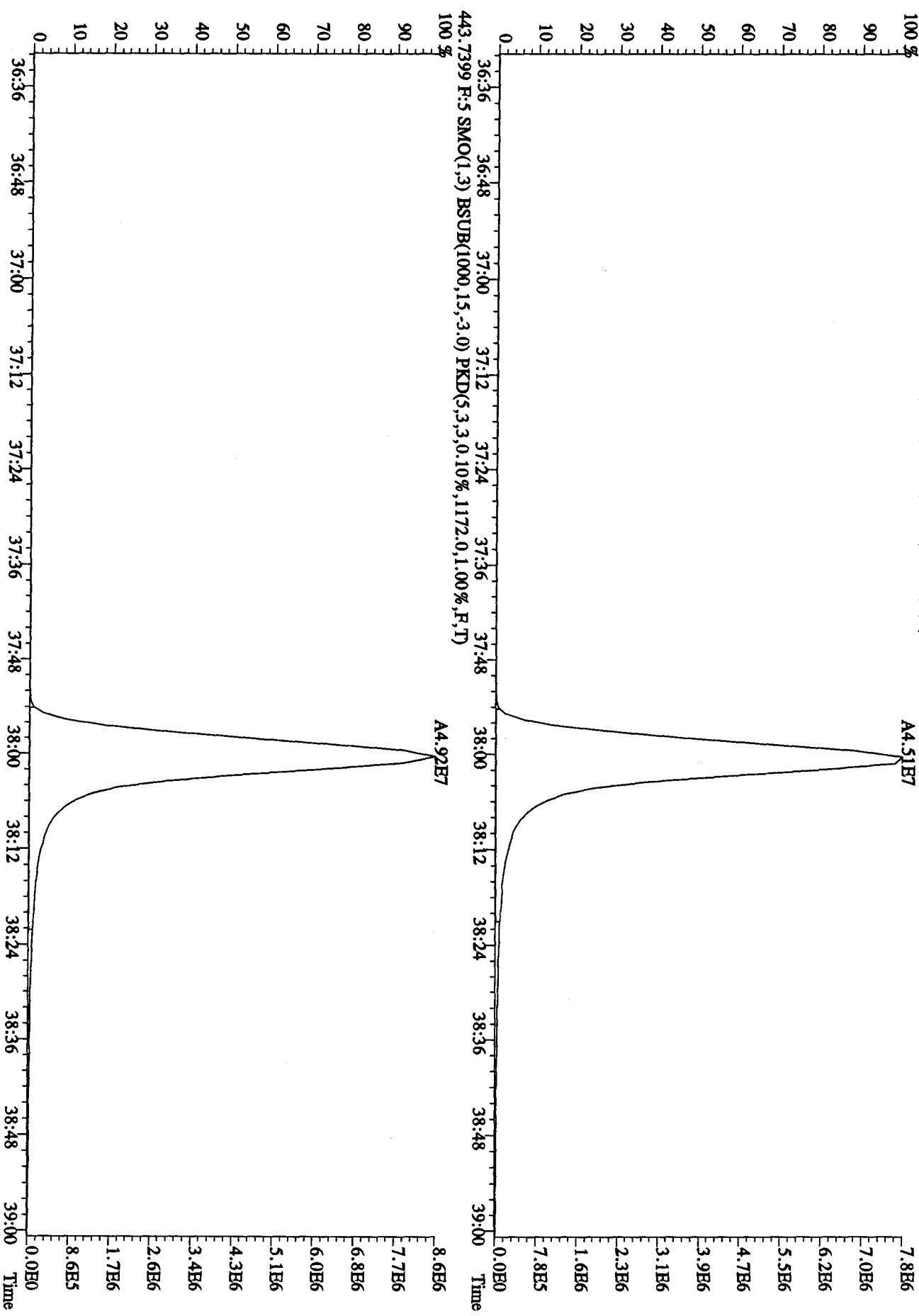
5.8E6

3.9E6

1.9E6

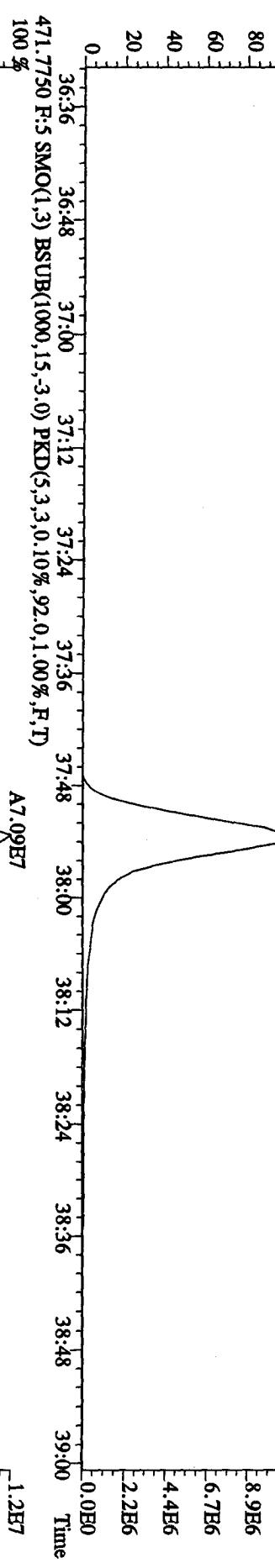
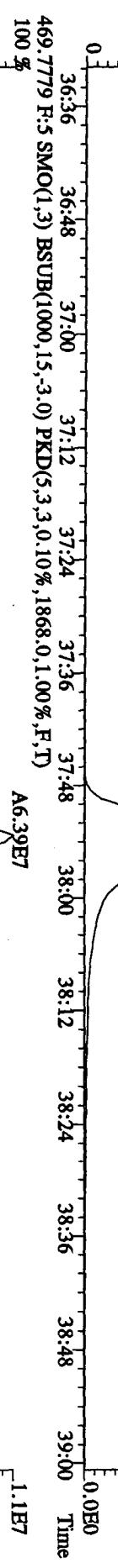
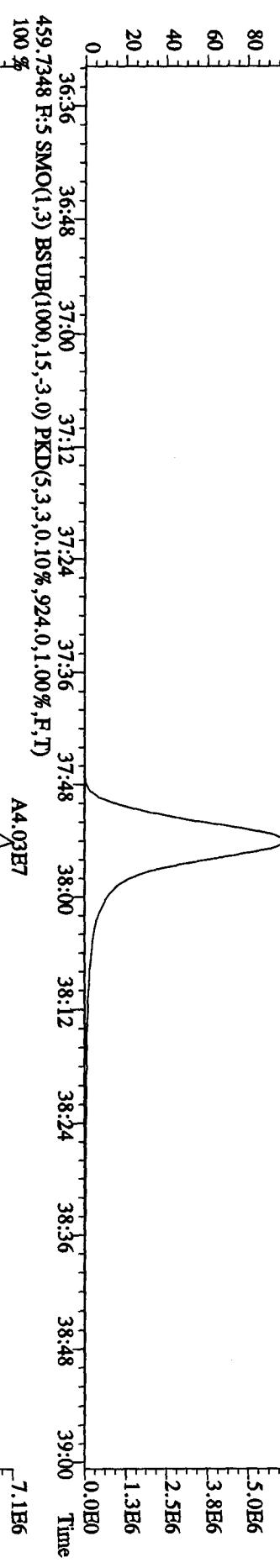
0.0E0

File:01MY104D5 #1-191 Acq: 1-MAY-2010 08:48:19 GC HI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINRES8290A
441.7428 R:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,608.0,1.00%,F,T)



File:01MY104D5 #1-191 Acq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINREFS8290A
 457.7377 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,944.0,1.00%,F,T)
 100 % A3.59E7 6.3E6
 80 -5.0E6
 60 -3.8E6
 40 -2.5E6
 20 -1.3E6
 0 0.0E0

A3.59E7



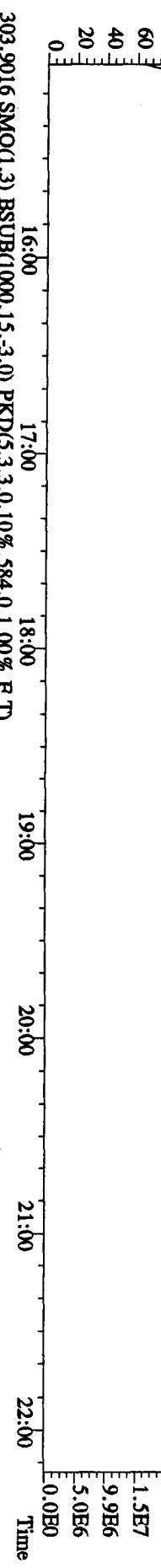
File:01MY104D5 #1-435 Aqc: 1-MAY-2010 08:48:19 GC EI + Voltage SIR Autospec-UltimaE
 Sample#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINRBS8290A

354.9792 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,R,T)

100 %
 15:19 15:56 16:36 16:58 17:22 17:44 18:21 18:43 19:27 20:26 21:05 21:41 22:10 2.5E7
 80
 60
 40
 20
 0

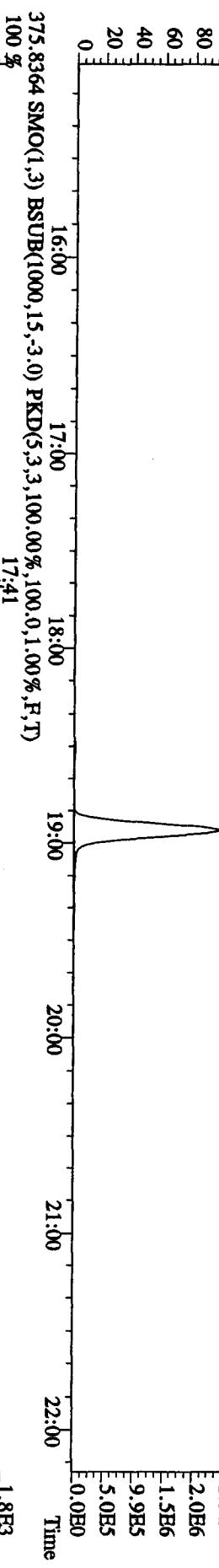
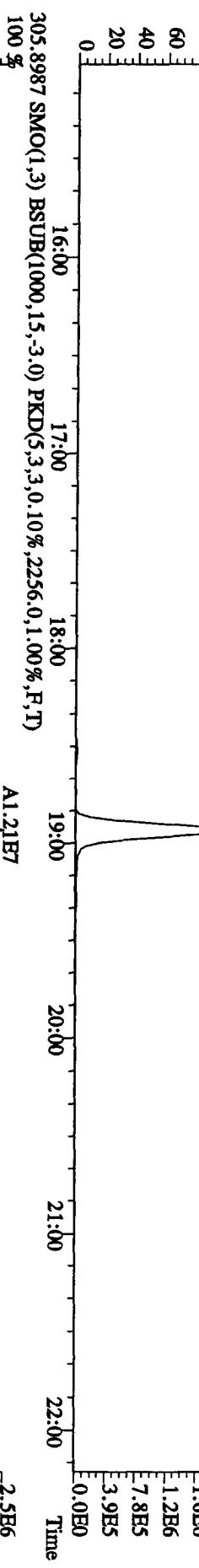
303.9016 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,584.0,1.00%,R,T)

100 %
 16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time



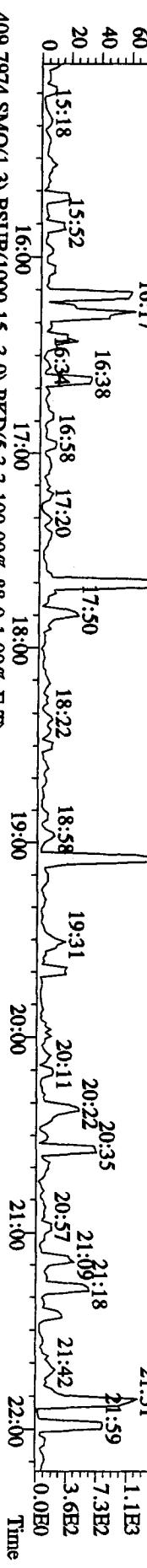
305.8987 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2256.0,1.00%,R,T)

100 %
 80
 60
 40
 20
 0



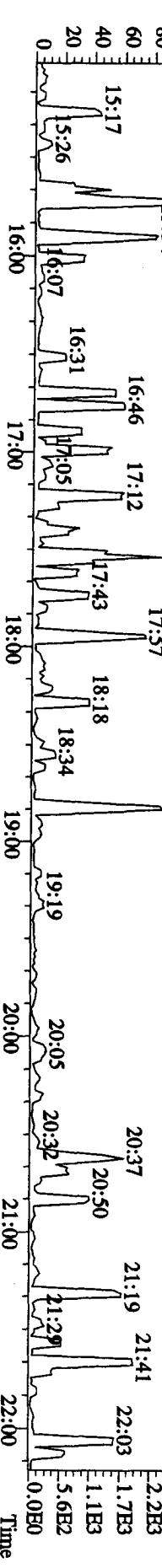
375.8364 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,100.0,1.00%,R,T)

100 %
 80
 60
 40
 20
 0



409.7974 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,88.0,1.00%,R,T)

100 %
 80
 60
 40
 20
 0



File:01MV104D3 #1-604 Acq: 1-MAI-2010 08:48:19 GC El+ Voltage SIR Autospec-UltimaF
Sample#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINRESS8290A

354.9792 F:2 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)

100 22:21
23:06
23:43
24:11
24:45

卷之三

108

卷之三

60

E-04

111

20-

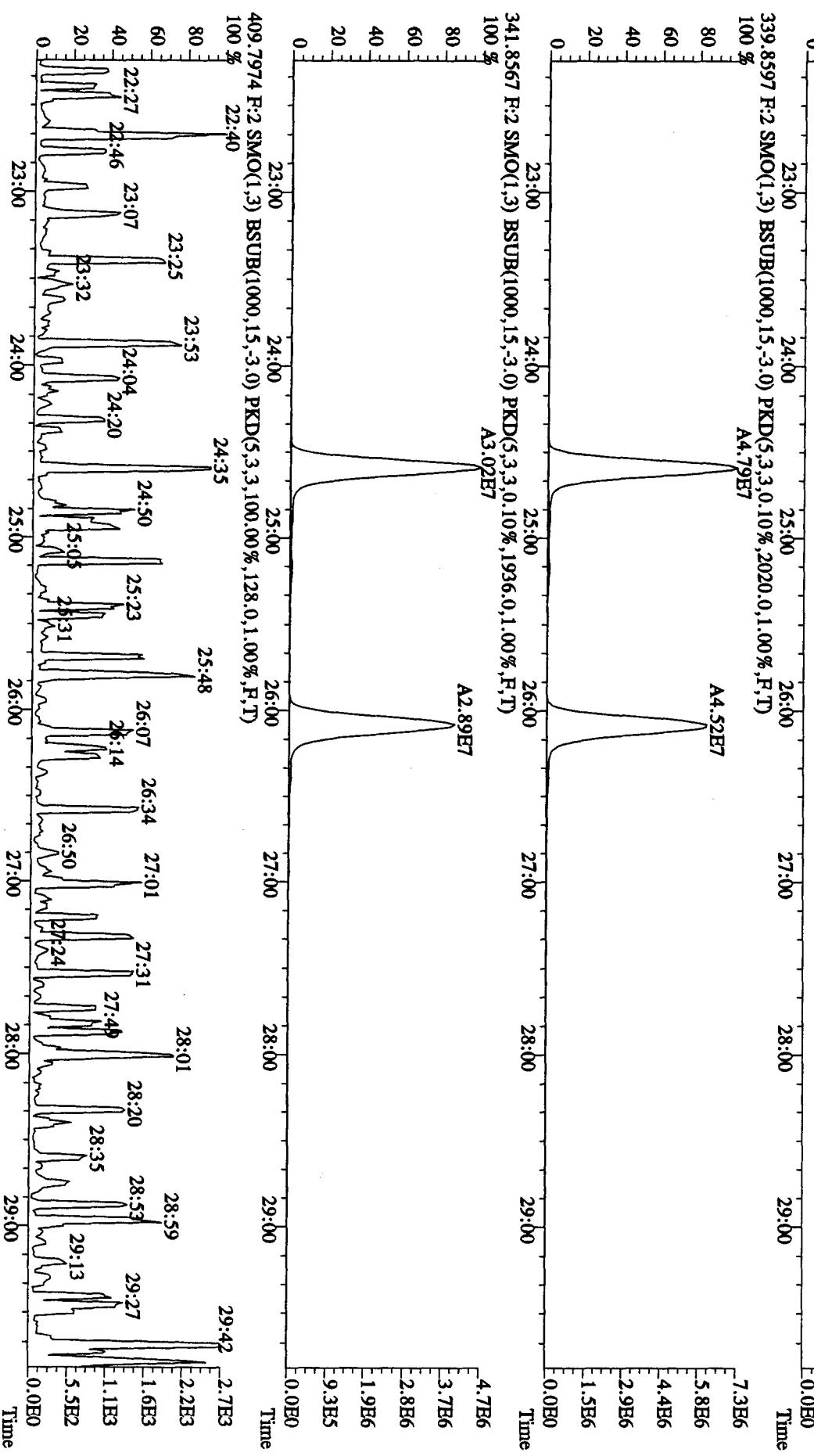
三

卷之三

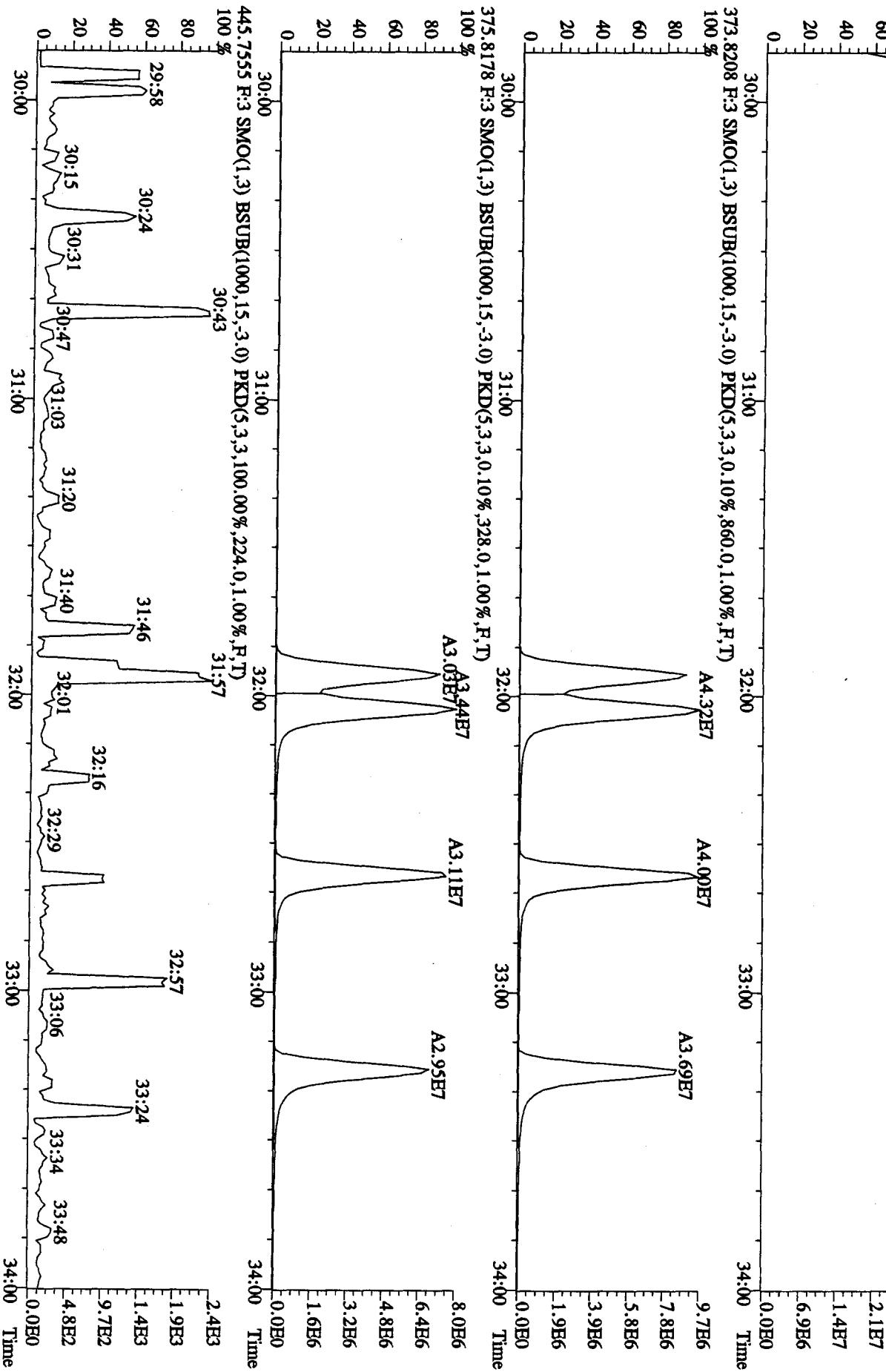
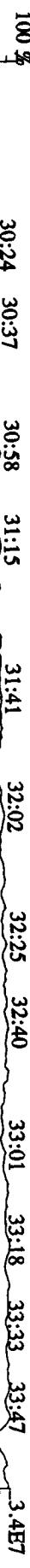
23:00 24:00 25:00

339.8597 E:2 SWO(1 3) BSIB(1000 15-3 0) PKD(5 3 3 0 112)

100% 100% 100% 100% 100% 100% 100% 100% 100% 100%



File:01MY104D5 #1-316 Acq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-UltimaB
Sample#1 Text:ST0501 :GS3 10DXN063 Exp:DIOXINRES8290A
430.9728 R:3 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)
100 %

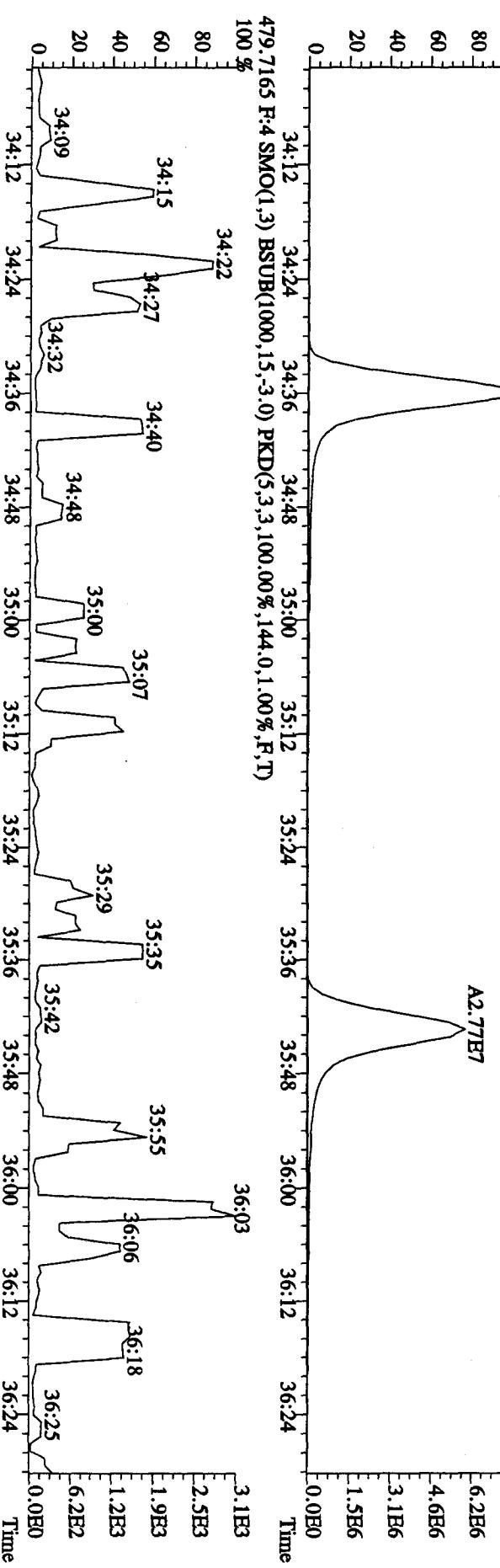
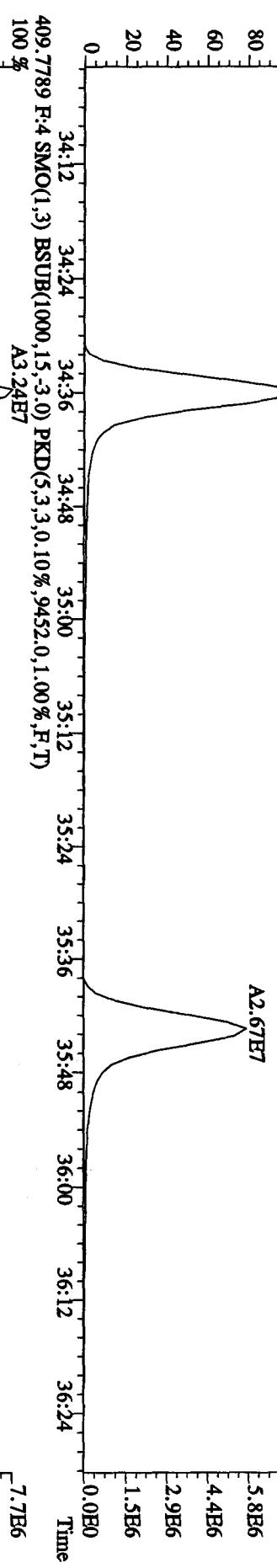
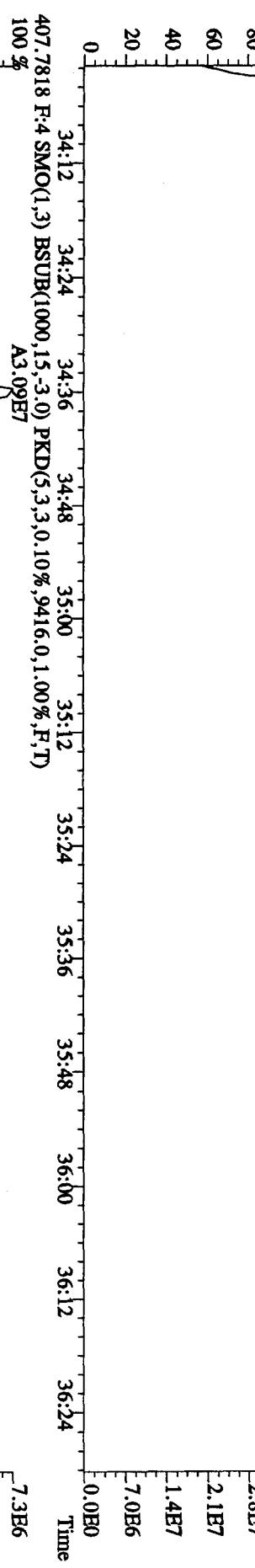


File:01IMX104D5 #1-198 Acq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-UltimaE

Sample#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINREFS8290A

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

100 % 34:15 34:37 34:45 34:53 35:01 35:10 35:37 35:57 36:07 36:21 3.5E7

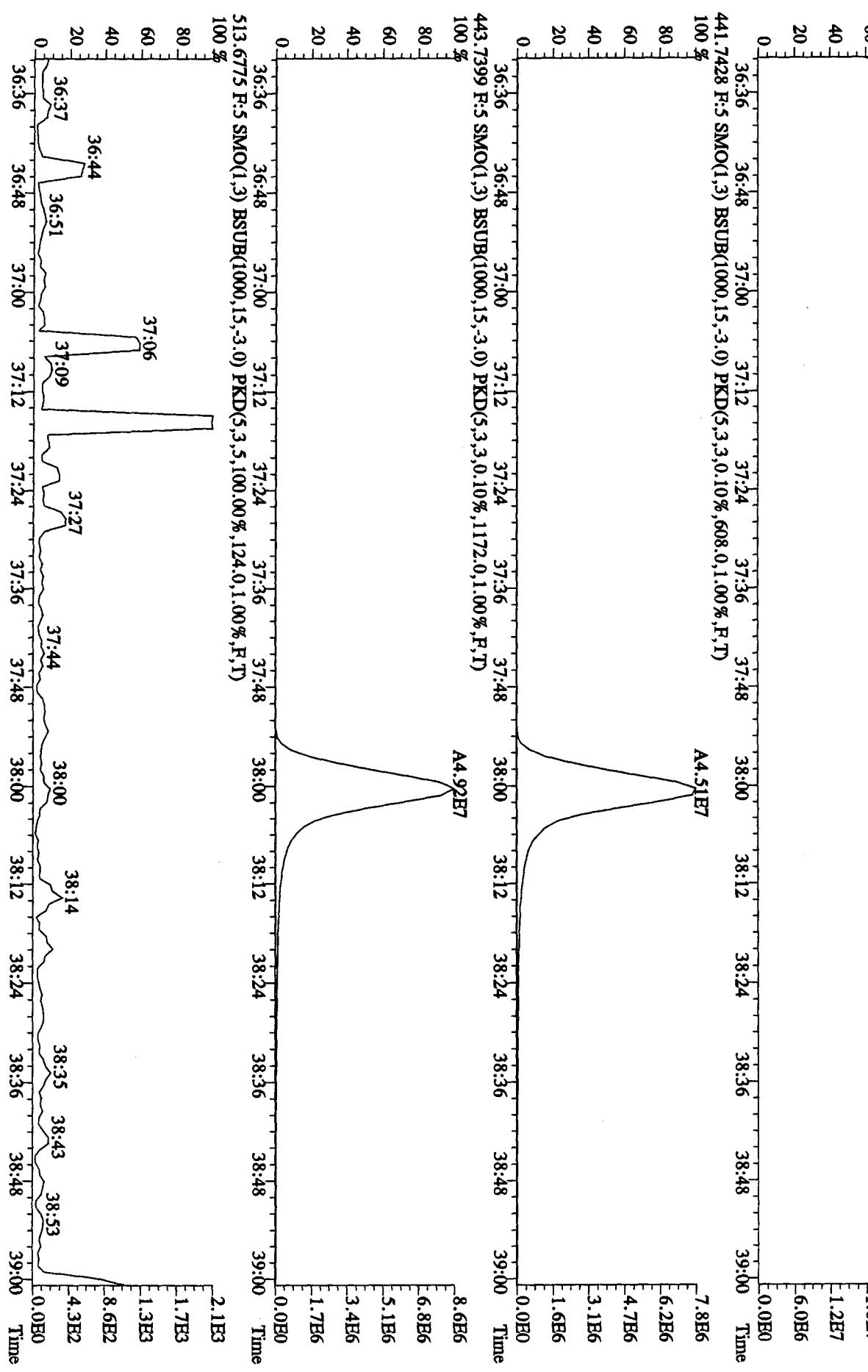


File:01MY104D5 #1-191 Aeq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 TestST0501 .CS3 10DXN083 Exp:DIOXINRES8290A
442.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)
100 % 36:40 37:04 37:31 37:41 37:56 38:09 38:28 38:47 38:55 3.0E7



441.7428 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,608.0,1.00%,F,T)
100 % 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time
A4.51E7 7.8E6
6.2E6
4.7E6
3.1E6
1.6E6
0.0E0

443.7399 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1172.0,1.00%,F,T)
100 % 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time
A4.92E7 8.6E6
6.8E6
5.1E6
3.4E6
1.7E6
0.0E0



File:01MY104D5 #1-434 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-UltimaE

Sample#2 Text:CP0501 :DB-5 CPSM 3732-05 Exp:DIOXINRRES290A

303.9016 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1972.0,1.00%,F,T)

100 % A3.95E7

A3.58E7

9.6E6

7.7E6

5.8E6

3.8E6

1.9E6

0.0E0



305.8987 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2312.0,1.00%,F,T)
100 % A5.04E7

A4.62E7

1.2E7

9.8E6

7.4E6

4.9E6

2.5E6

0.0E0

315.9419 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2164.0,1.00%,F,T)
100 %

A3.46E4

A3.04E4

A1.68E4

A1.09E4

A1.26E4

A7.75E3

A1.47E4

A2.02E4

A1.4E3

A7.75E4

A7.77E4

A1.71E4

A1.43E4

A1.01E4

A1.01E4

A1.29E4

A1.28E4

A1.00E4

A1.76E4

A1.32E4

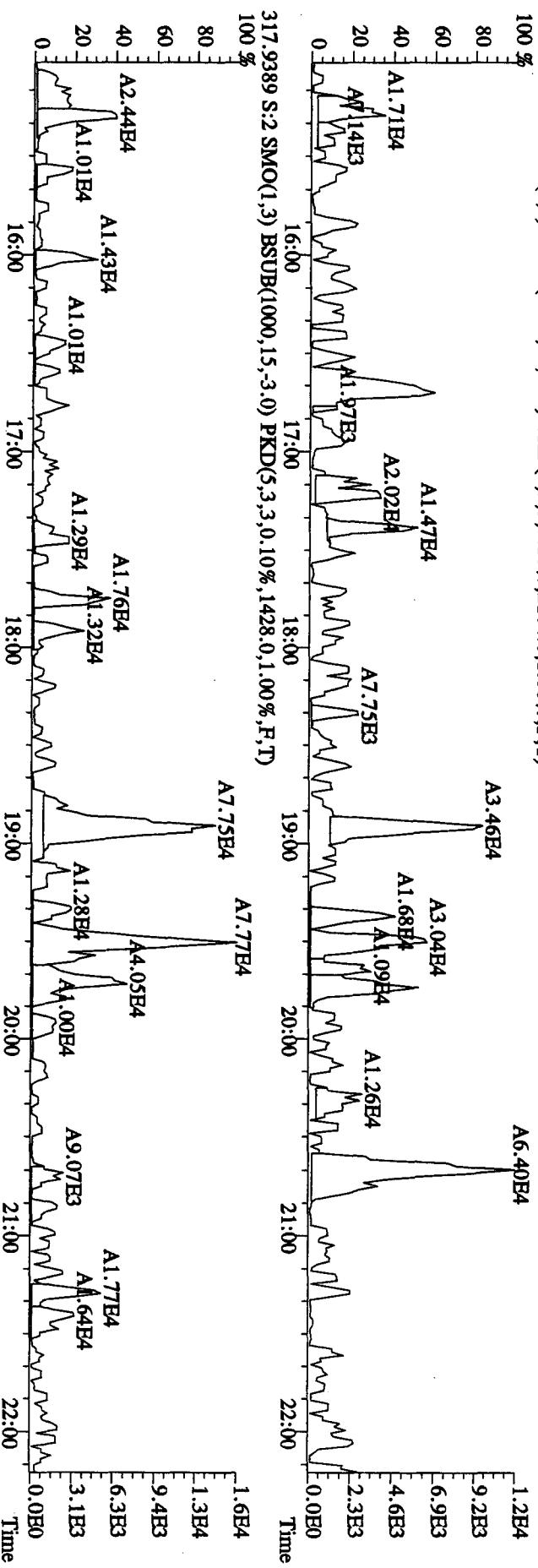
A1.7E4

A1.64E4

A9.07E3

1.6E4
1.3E4
9.4E3
6.3E3
3.1E3
0.0E0

Time



File:01MY104D5 #1-434 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-UltimaE

Sample#:2 Text:CP0501 :DB-5 CPSM 3732-05 Exp:DIOXINRES290A

319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1920.0,1.00%,F,T)

A3.65E7

8.6E6

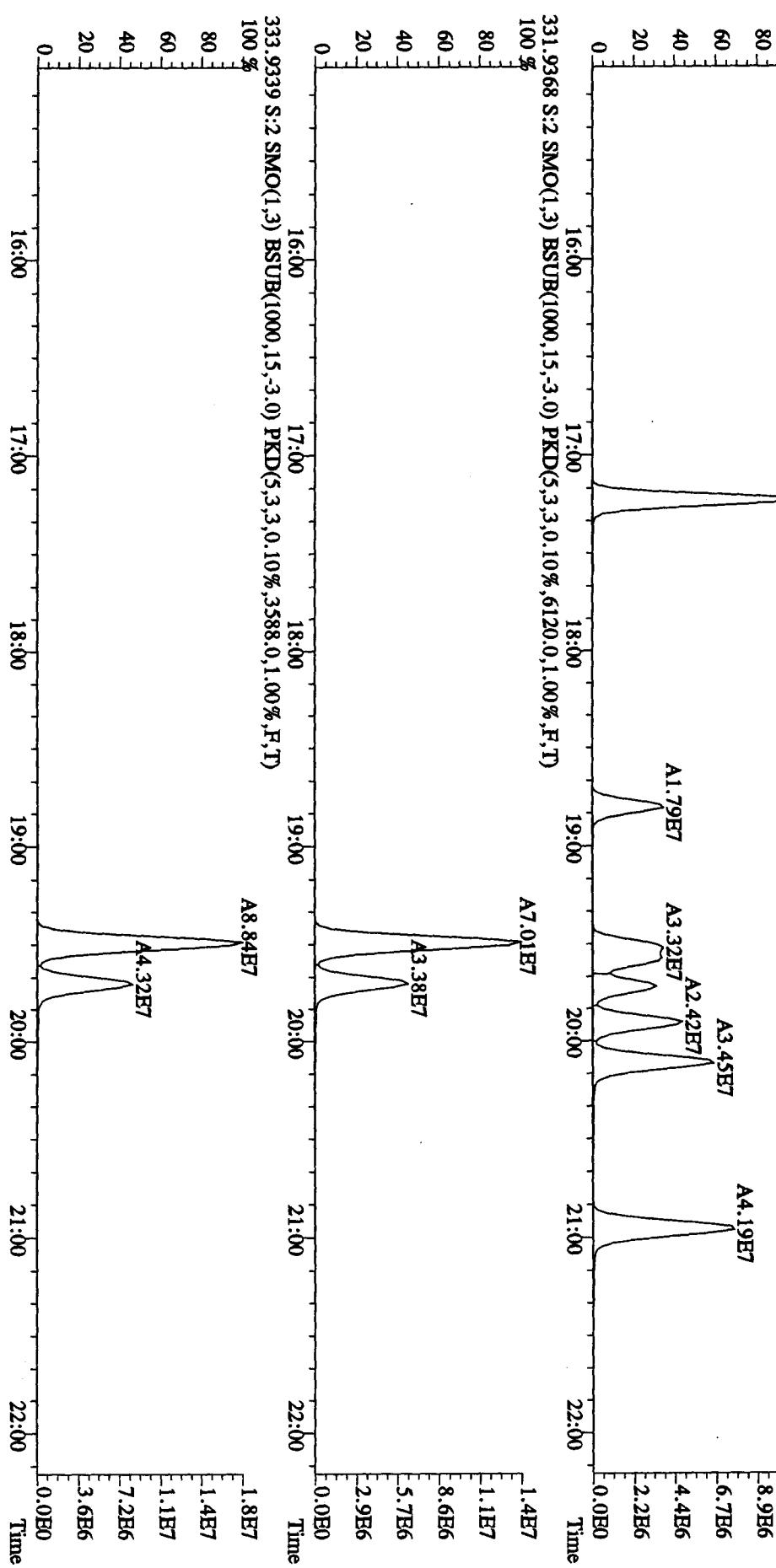
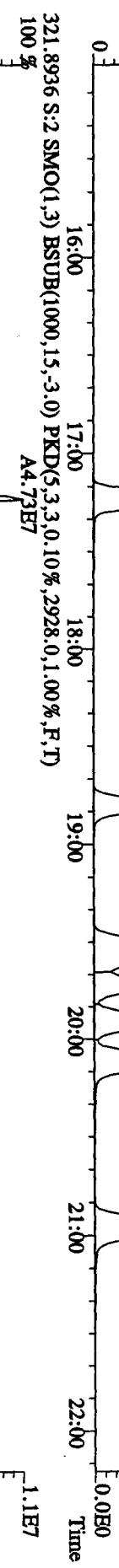
6.9E6

5.1E6

3.4E6

1.7E6

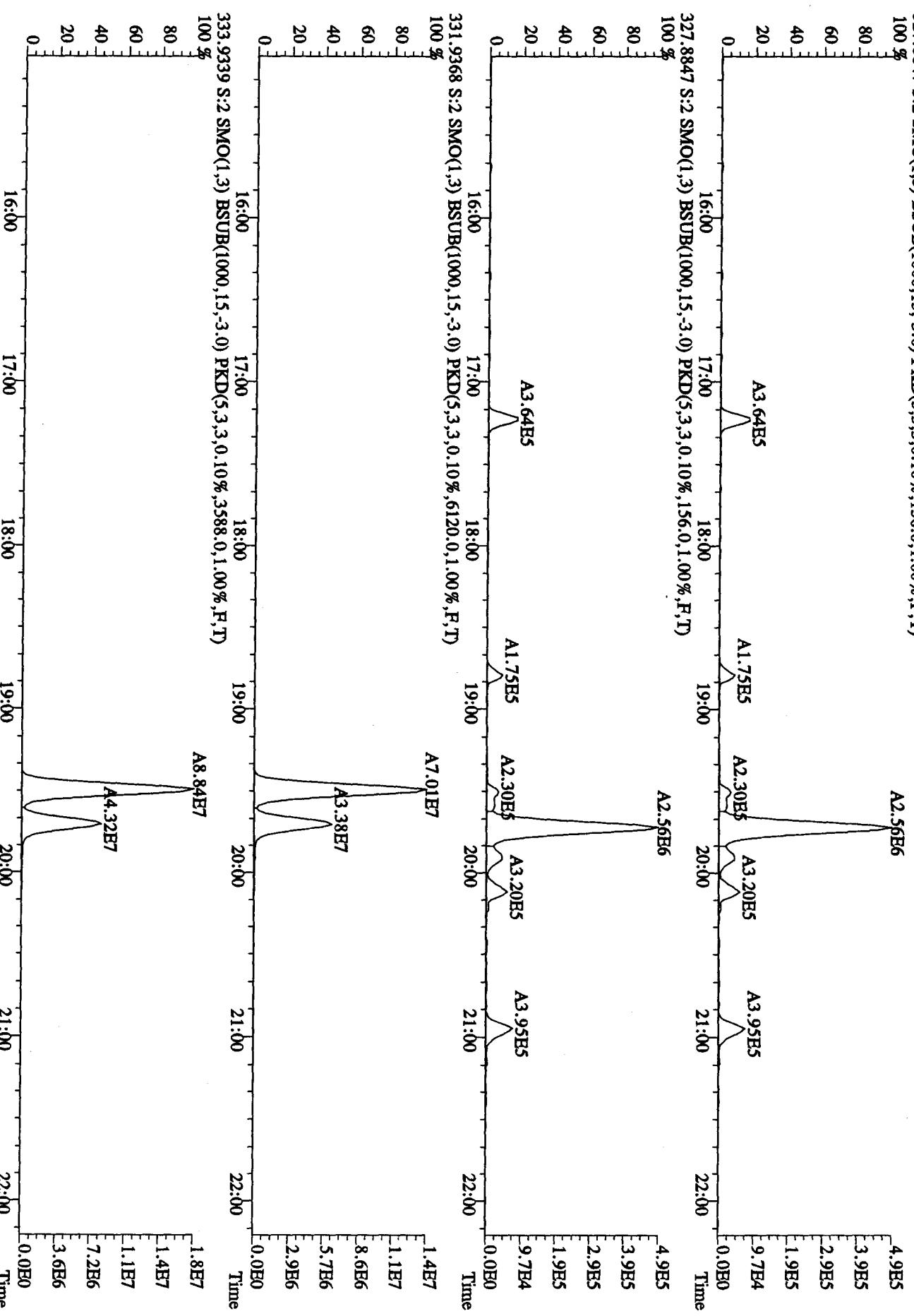
0.0E0



File:01MY104D5 #1-434 Act: 1-MAY-2010 09:32:20 GC El+ Voltage SIR Autospec-UltimaE
 Sample#2 Text:CP0501 :DB-5 CFSM 3732-05 Exp:DIOXINRES8290A
 327.847 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,156,0,1.00%,F,T)
 100 % A2.56E6 4.9E5
 80 3.9E5
 60 2.9E5
 40 1.9E5
 20 0.9E5
 0 0.0E0

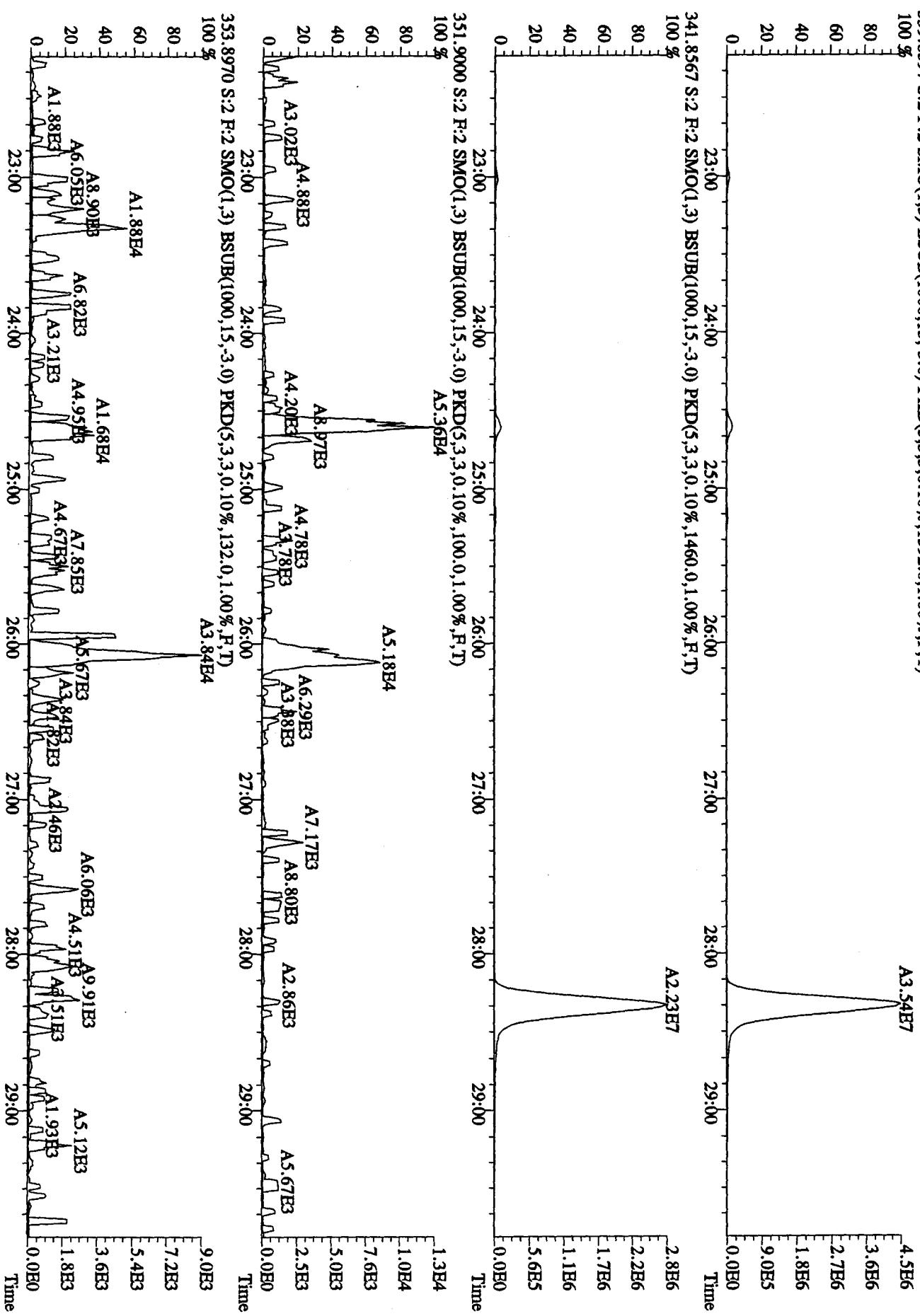
327.847 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,156,0,1.00%,F,T)
 100 % A2.56E6 4.9E5
 80 3.9E5
 60 2.9E5
 40 1.9E5
 20 0.9E5
 0 0.0E0

Time

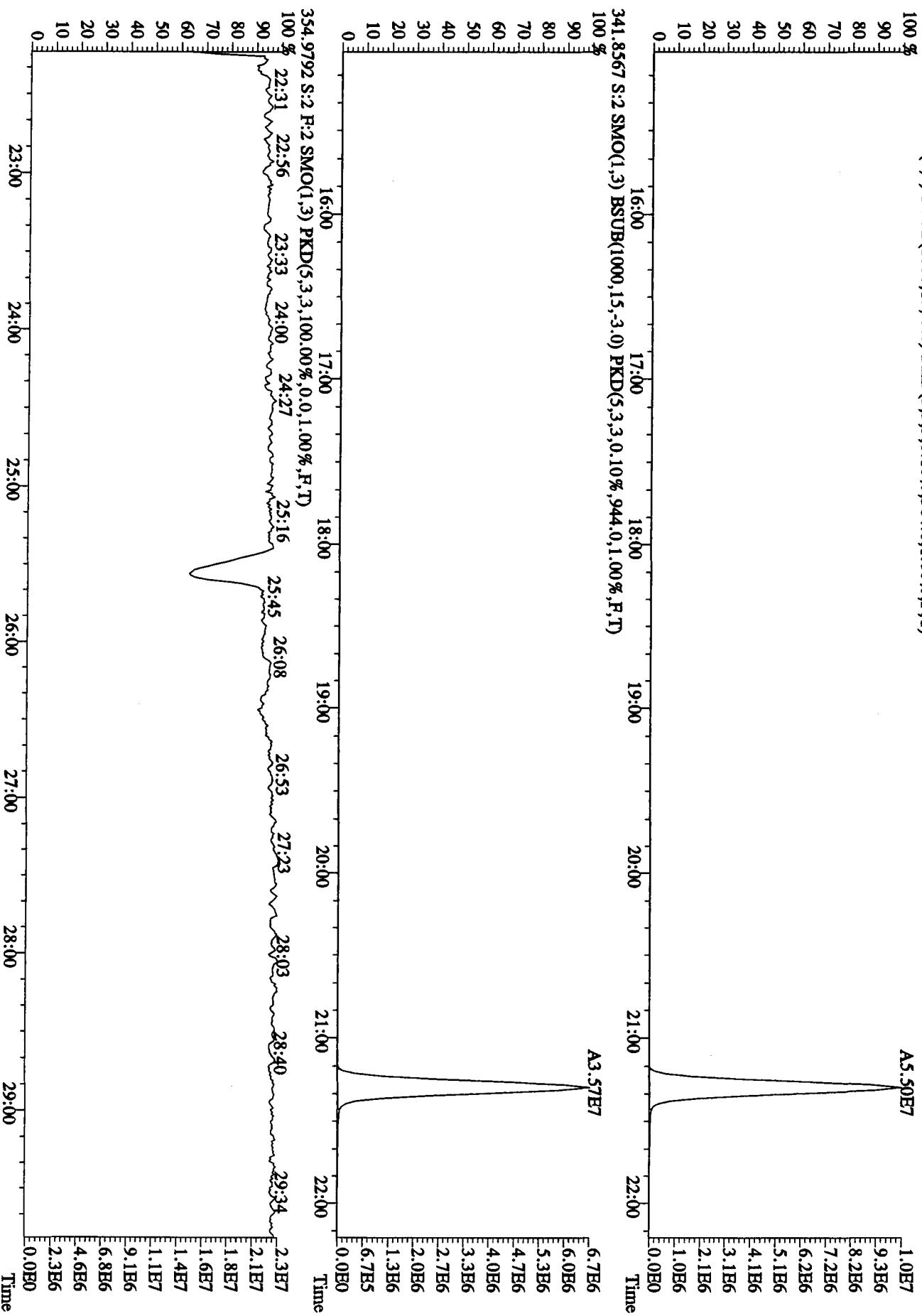


File:01MY104D5 #1-605 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-Ultima

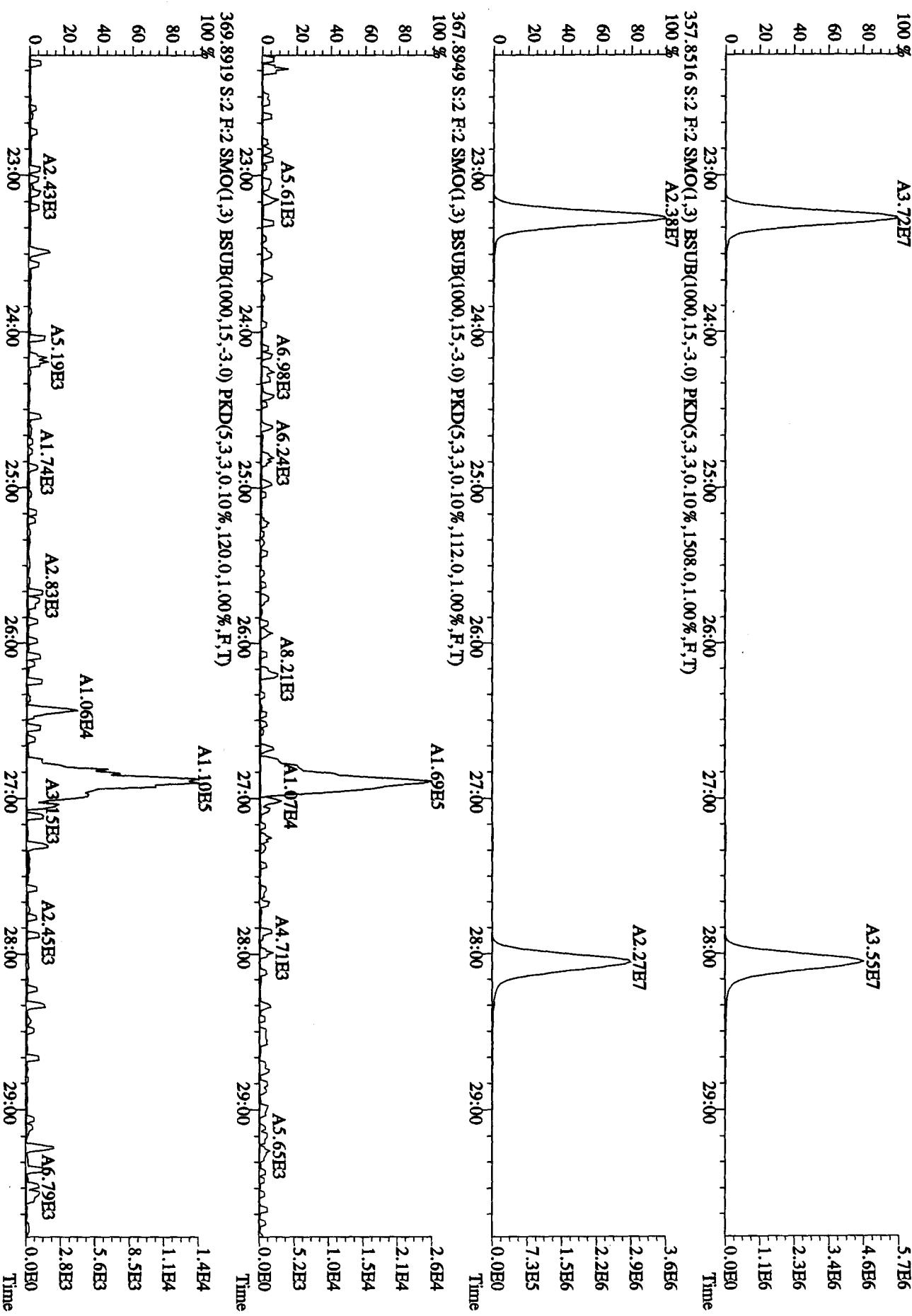
Sample#1:ext:CP0301 :DB-3 CFSM 3732-J3 Exp:DIOXINRES829A



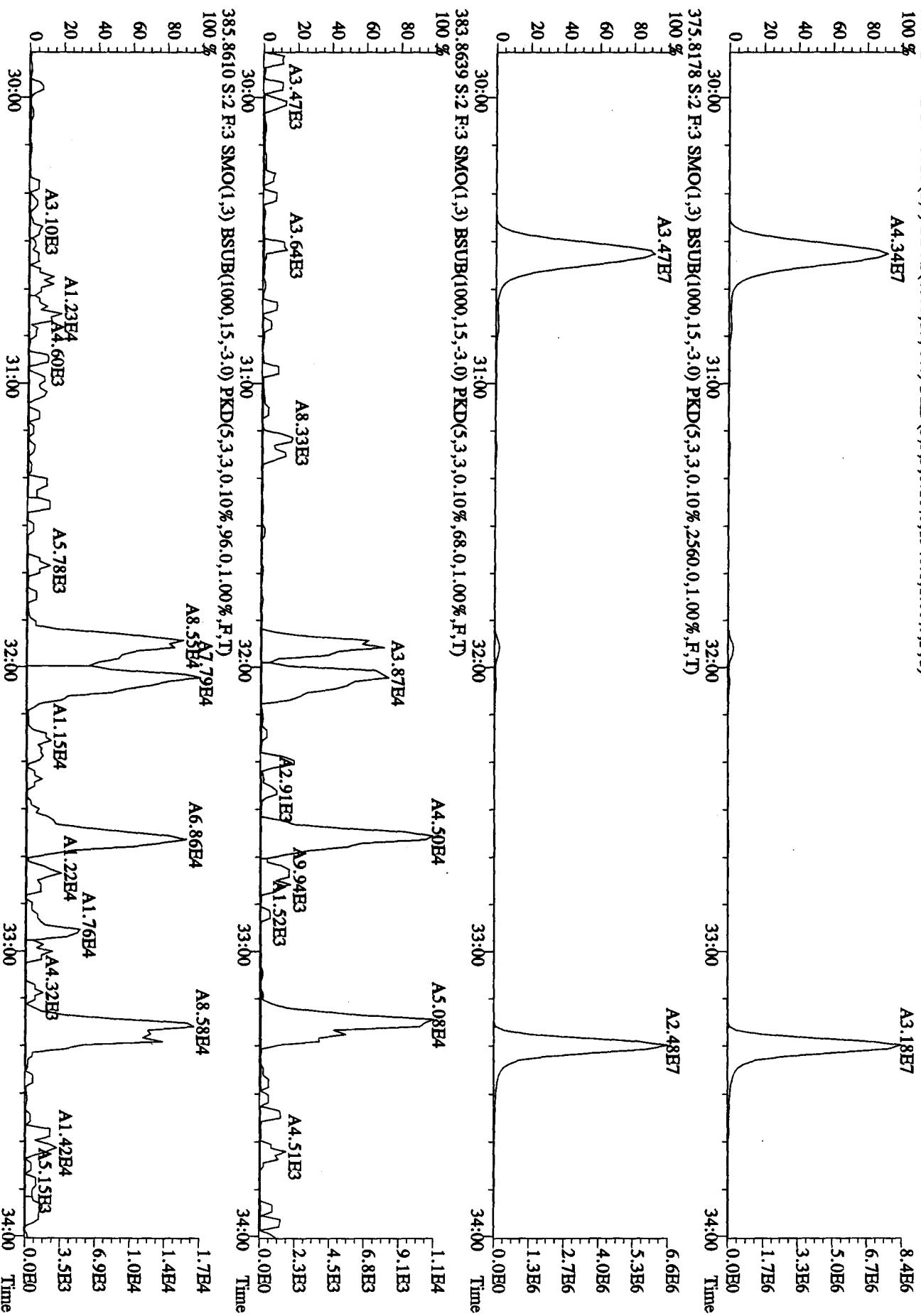
File:01MY104D5 #1-434 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:CP0501 :DB-5 CPSM 3732-05 Exp:DIOXINRES8290A
339.8597 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,364.0,1.00%,F,T)



File:01MY104D5 #1-605 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#2 Text:CPD0501 :DB-5 CPSSM 3732-05 Exp:DIOXINRES8290A
 355.8346 S:2 R:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1736.0,1.00%,R,T)
 100 % A3.72E7



File:01MY104D5 #1-316 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 Text:CP0501 :DB-5 CPSM 3732-05 Exp:DIOXINRES8290A
 373.8208 S:2 R:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1948.0,1.00%,F,T)
 100 %
 A4.34E7 8.4E6
 80 6.7E6
 60 5.0E6
 40 3.3E6
 20 1.7E6
 0 0.0E0 Time



File:01MY104D5 #1-316 Aeq: 1-MAY-2010 09:32:20 GC El+ Voltage SIR Autospec-UltimaE
 Sample#2 Text:CP0501 :DB-5 CPSM 3732-05 Exp:DIOXINRES8290A
 389.8157 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1476.0,1.00%,F,T)
 100 %
 80
 60
 40
 20
 0

A3.29E7

7.9E6

6.3E6

4.8E6

3.2E6

1.6E6

0.0E0

Time

30:00

31:00

32:00

33:00

34:00

Time

A3.03E7

7.9E6

6.3E6

4.8E6

3.2E6

1.6E6

0.0E0

Time

30:00

31:00

32:00

33:00

34:00

Time

30:00

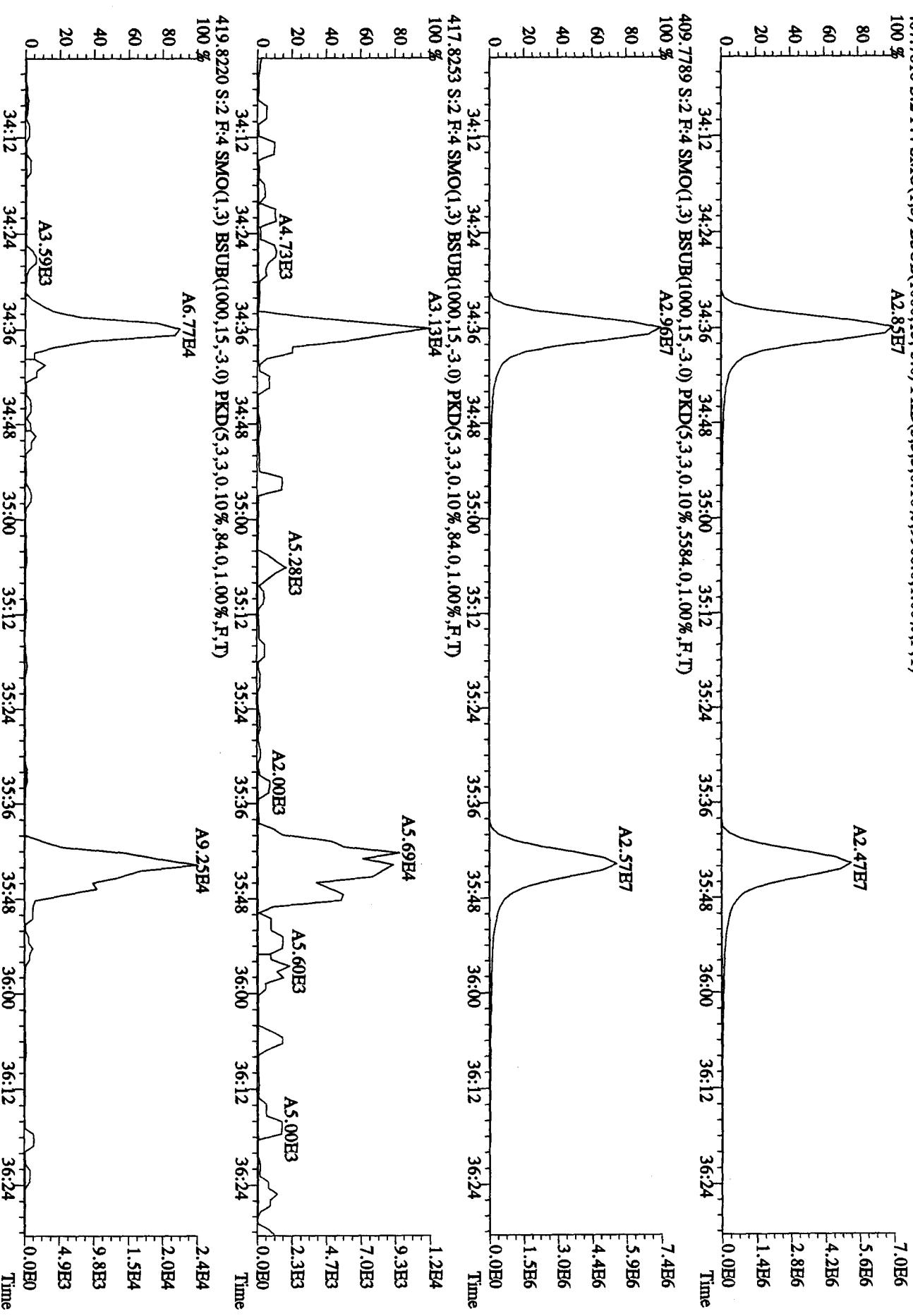
31:00

32:00

33:00

</

File:01MY104D5 #1-198 Acq: 1-MAY-2010 09:32:20 GC El+ Voltage SIR Autospec-UltimaE
Sample#2 Text:CP0501 :DB-5 CPSM 3732-05 Exp:DIOXINRES8290A
407.7818 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9900.0,0.1.00%,F,T)
100 % A2.85E7



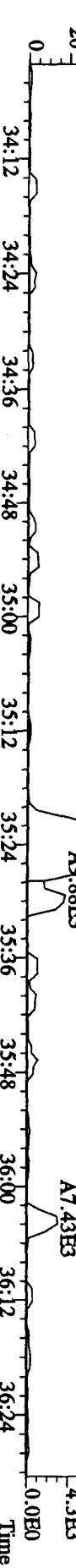
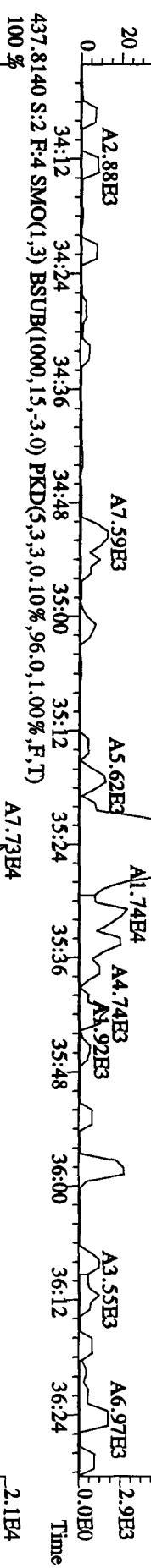
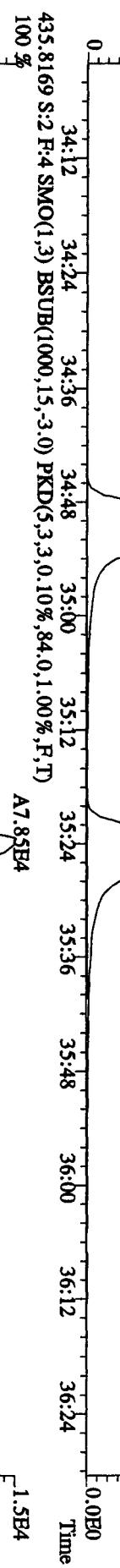
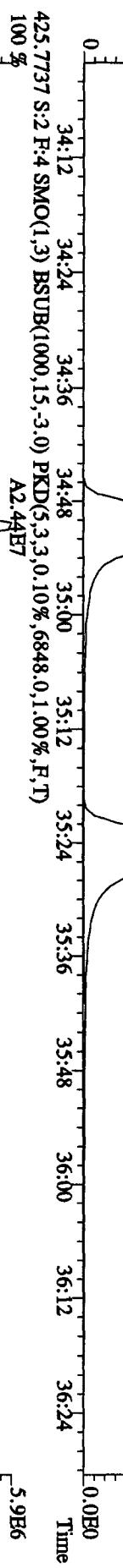
File:01IMY104D5 #1-198 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 Text:CP0501 :DB-5 CPSM 3732-05 Exp:DIOXINRES8200A
 423.7766 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12096.0,0.1.00%,F,T)
 100 % A2.53E7

6.0E6
 4.8E6
 3.6E6
 2.4E6
 1.2E6

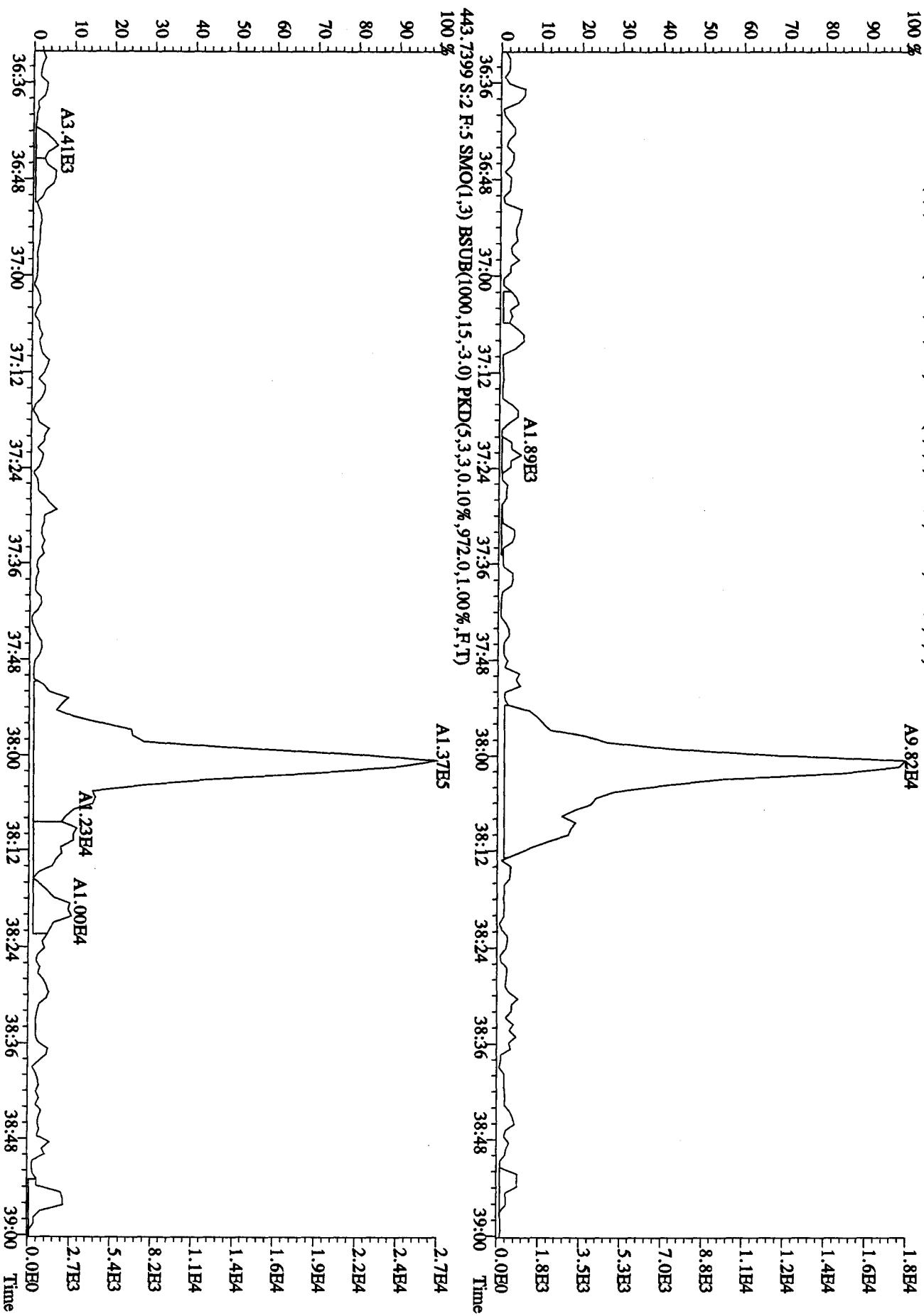
A2.44E7
 A2.24E7

5.9E6
 4.7E6
 3.5E6
 2.4E6
 1.2E6

0.0E0



File:01MY104D5 #1-190 Acq: 1-MAY-2010 09:32:20 GC El+ Voltage SIR Autospec-UltimaE
Sample#2 Text:CP0501 :DB-5 CPSM 3732-05 Exp:DIOXINRHS8290A
441.7428 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,496.0,1.00%,F,T)



File:01MY104D5 #1-190 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-UltimaE

Sample#2 Text:CP0501 :DB-5 CPSM 3732-05 Exp:DIOXINRES8290A

457.7377 S:2 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,504.0,1.00%,F,T)

A1.78E7

100 %

3.2E6
2.5E6
1.9E6
1.3E6

80

6.4E5

60

3.7E6
2.9E6
2.2E6
1.5E6
7.4E5

40

2.9E4
2.4E4
1.8E4
1.2E4

20

5.9E3
1.9E4
1.6E4
1.2E4
7.8E3
3.9E3
0.0E0

0

36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

459.7348 S:2 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,764.0,1.00%,F,T)

A2.01E7

100 %

3.7E6
2.9E6
2.2E6
1.5E6
7.4E5

80

2.9E4
2.4E4
1.8E4
1.2E4

60

5.9E3
1.9E4
1.6E4
1.2E4
7.8E3
3.9E3
0.0E0

40

2.9E4
2.4E4
1.8E4
1.2E4
7.8E3
3.9E3
0.0E0

20

5.9E3
1.9E4
1.6E4
1.2E4
7.8E3
3.9E3
0.0E0

0

36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

469.7779 S:2 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,108.0,1.00%,F,T)

A1.33E5

100 %

2.9E4
2.4E4
1.8E4
1.2E4

80

5.9E3
1.9E4
1.6E4
1.2E4
7.8E3
3.9E3
0.0E0

60

2.9E4
2.4E4
1.8E4
1.2E4

40

5.9E3
1.9E4
1.6E4
1.2E4
7.8E3
3.9E3
0.0E0

20

5.9E3
1.9E4
1.6E4
1.2E4
7.8E3
3.9E3
0.0E0

0

36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

471.7750 S:2 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,92.0,1.00%,F,T)

A8.71E4

100 %

1.9E4
1.6E4
1.2E4
7.8E3
3.9E3
0.0E0

80

2.9E4
2.4E4
1.8E4
1.2E4

60

5.9E3
1.9E4
1.6E4
1.2E4
7.8E3
3.9E3
0.0E0

40

2.9E4
2.4E4
1.8E4
1.2E4

20

5.9E3
1.9E4
1.6E4
1.2E4
7.8E3
3.9E3
0.0E0

0

36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

A4.52E3

A1.38B4

A6.15E3

A1.04E4

A4.45E3

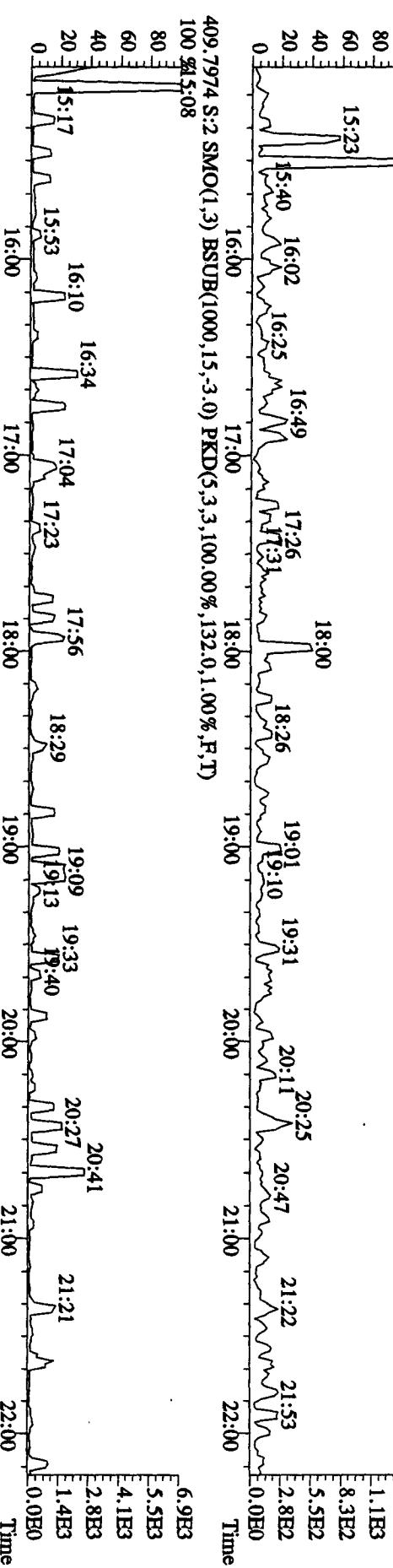
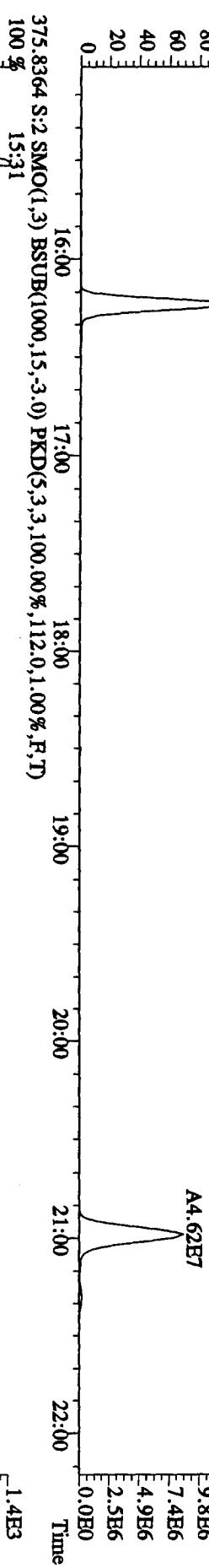
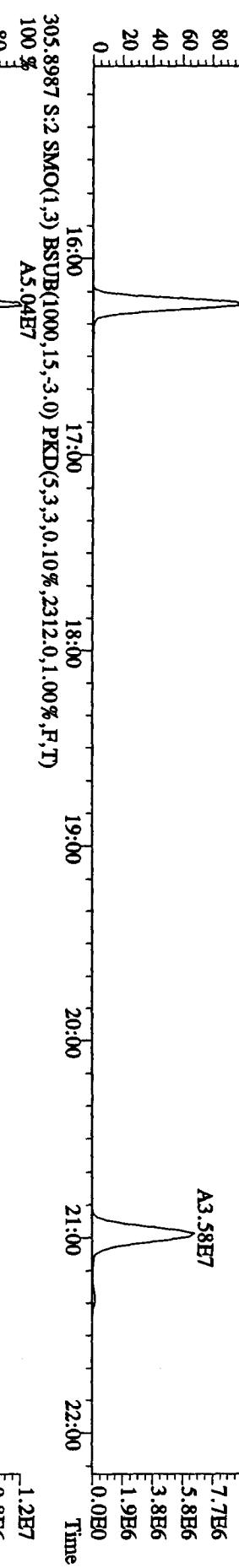
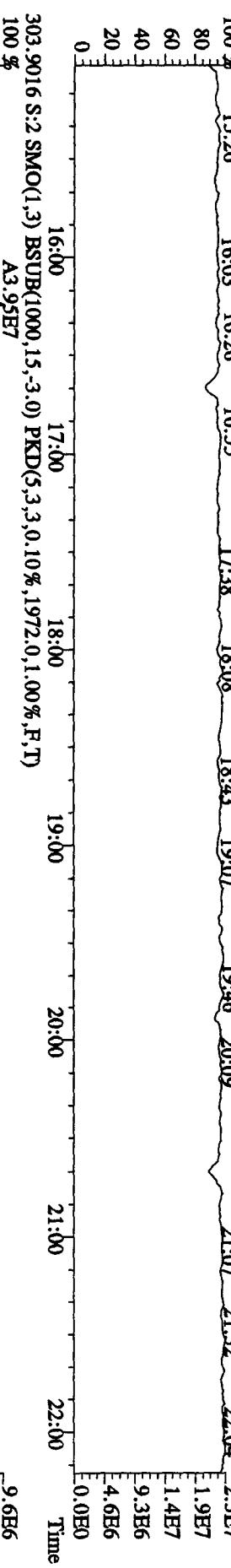
A6.70E3

A3.64E3

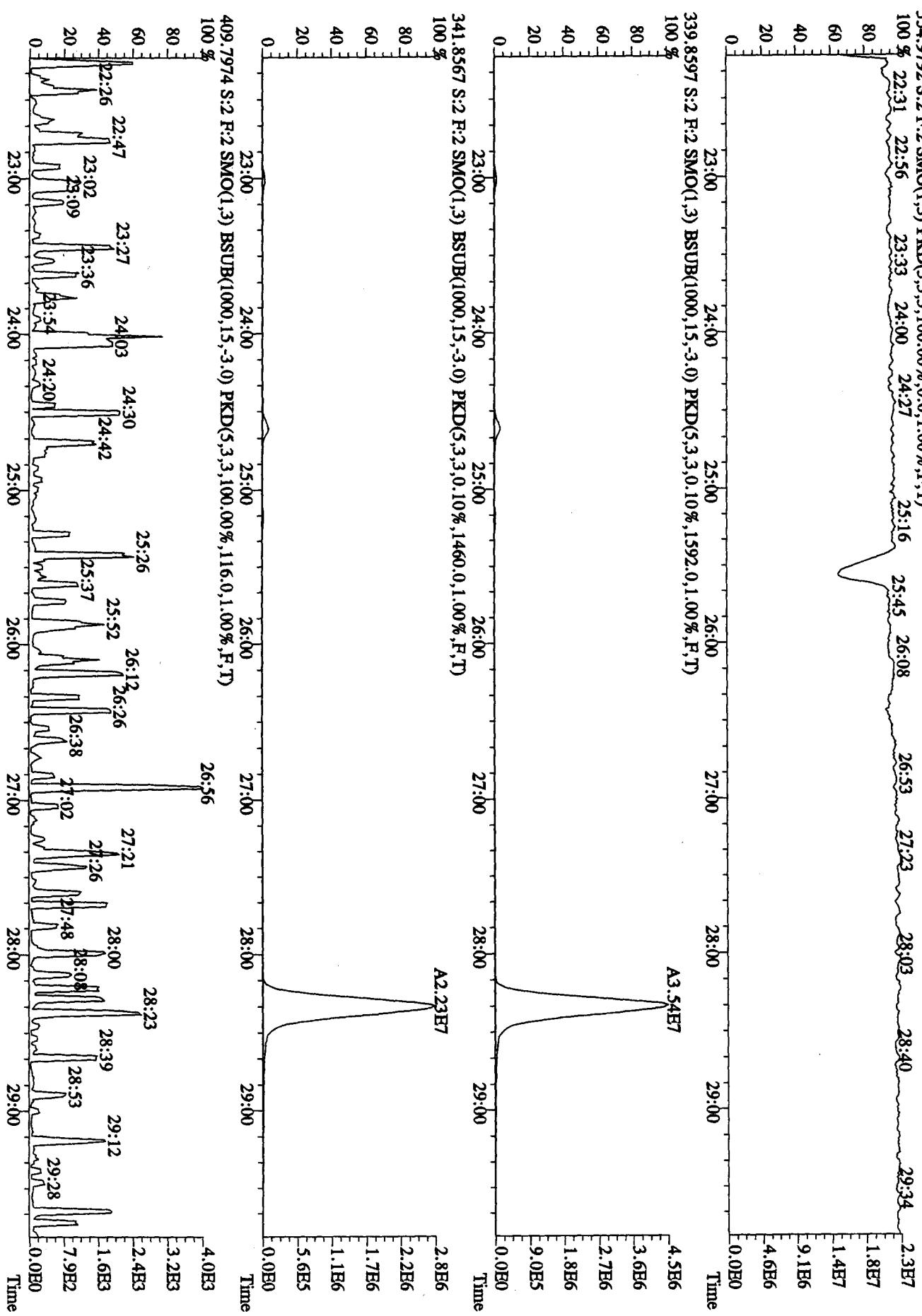
File:01MY104D5 #1-434 Acq: 1-MAY-2010 09:32:20 GC El+ Voltage SIR Autospec-UltimaE
Sample#2 Tex:CP0501 :DB-5 CPSM 3732-05 Exp:DIOXINRES8290A

354.9792 S:2 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)

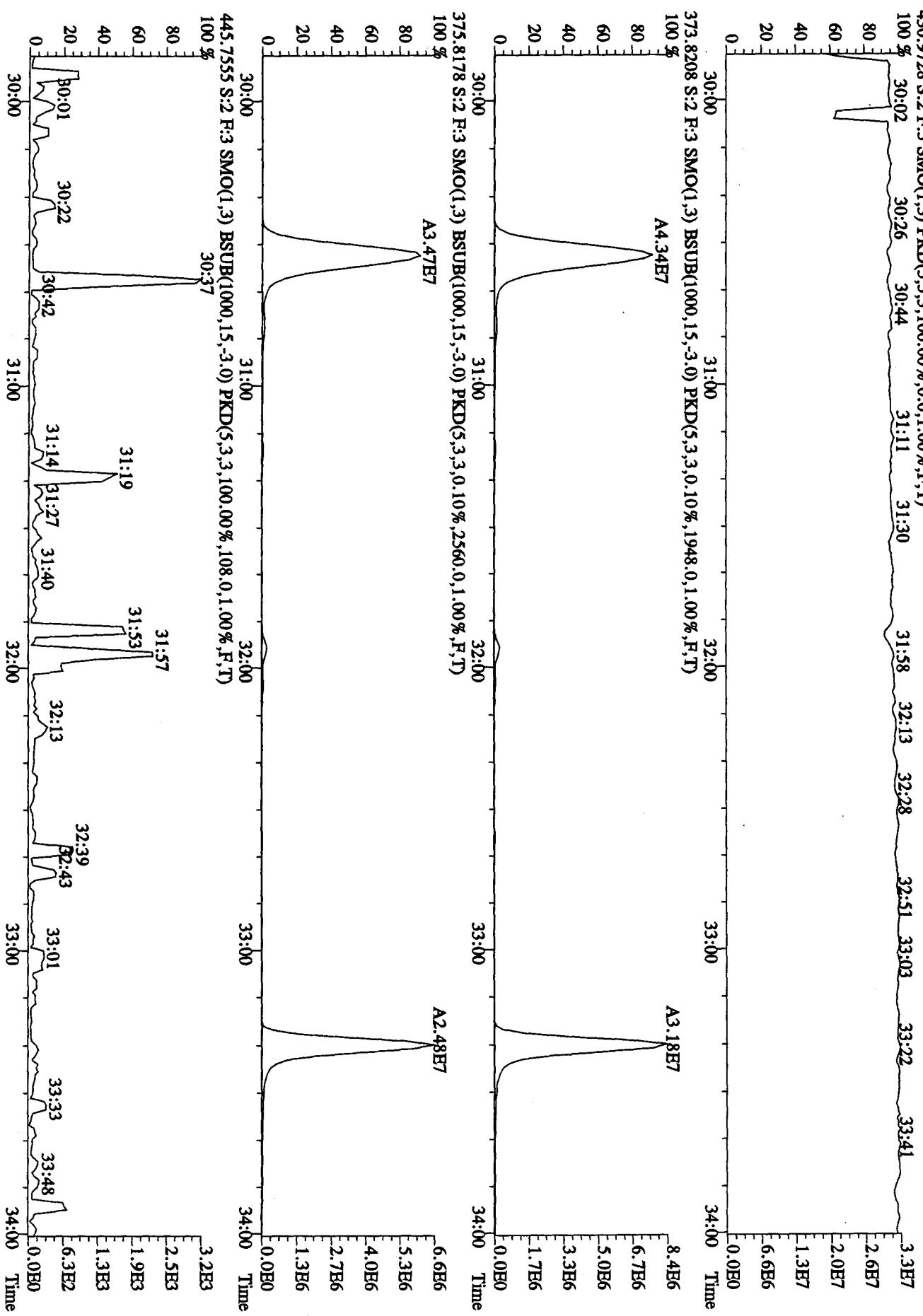
100 % 15:26 16:03 16:26 16:55 17:38 18:08 18:43 19:07 19:46 20:09 21:07 21:32 22:04 2.3E7
80 % 1.9E7
60 % 1.4E7
40 % 9.3E6
20 % 4.6E6
0 % 0.0E0



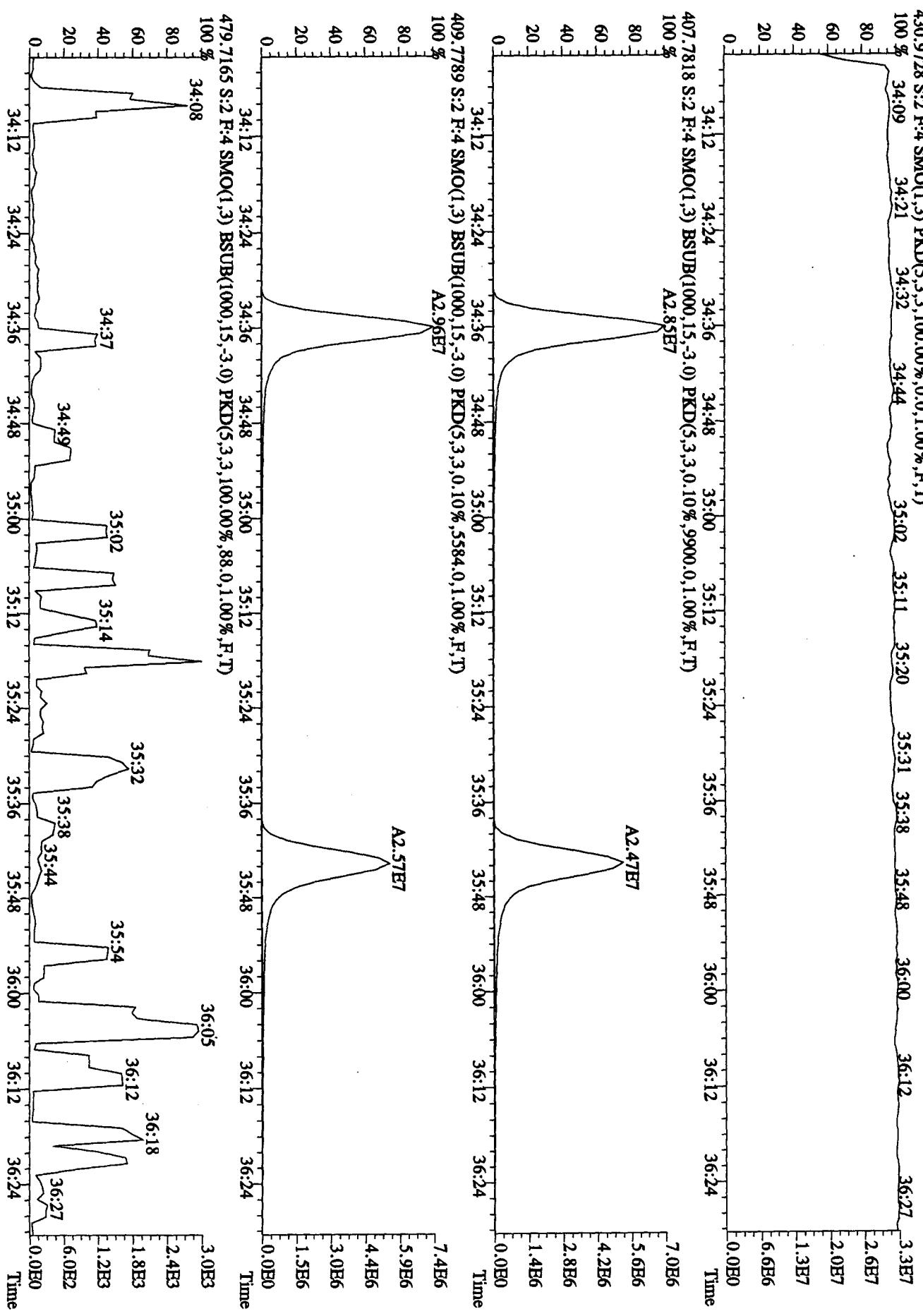
File:01MY104D5 #1-605 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-UltimaR Sample#2 Text:CP0501 :DB-5 CPSM 3732-05 Exp:DIOXINRESS8290A



File:01MY104D5 #1-316 Acq: 1-MAY-2010 09:32:20 GC El+ Voltage SIR Autosp ec-UltimaH
Sample#2 Text:CP0501 :DB-5 CPSM 3732-05 Exp:DIOXINRES8290A



File:01MY104D5 #1-198 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Tex:CP0501 :DB-5 CPSM 3732-05 Exp:DIOXINRES8290A

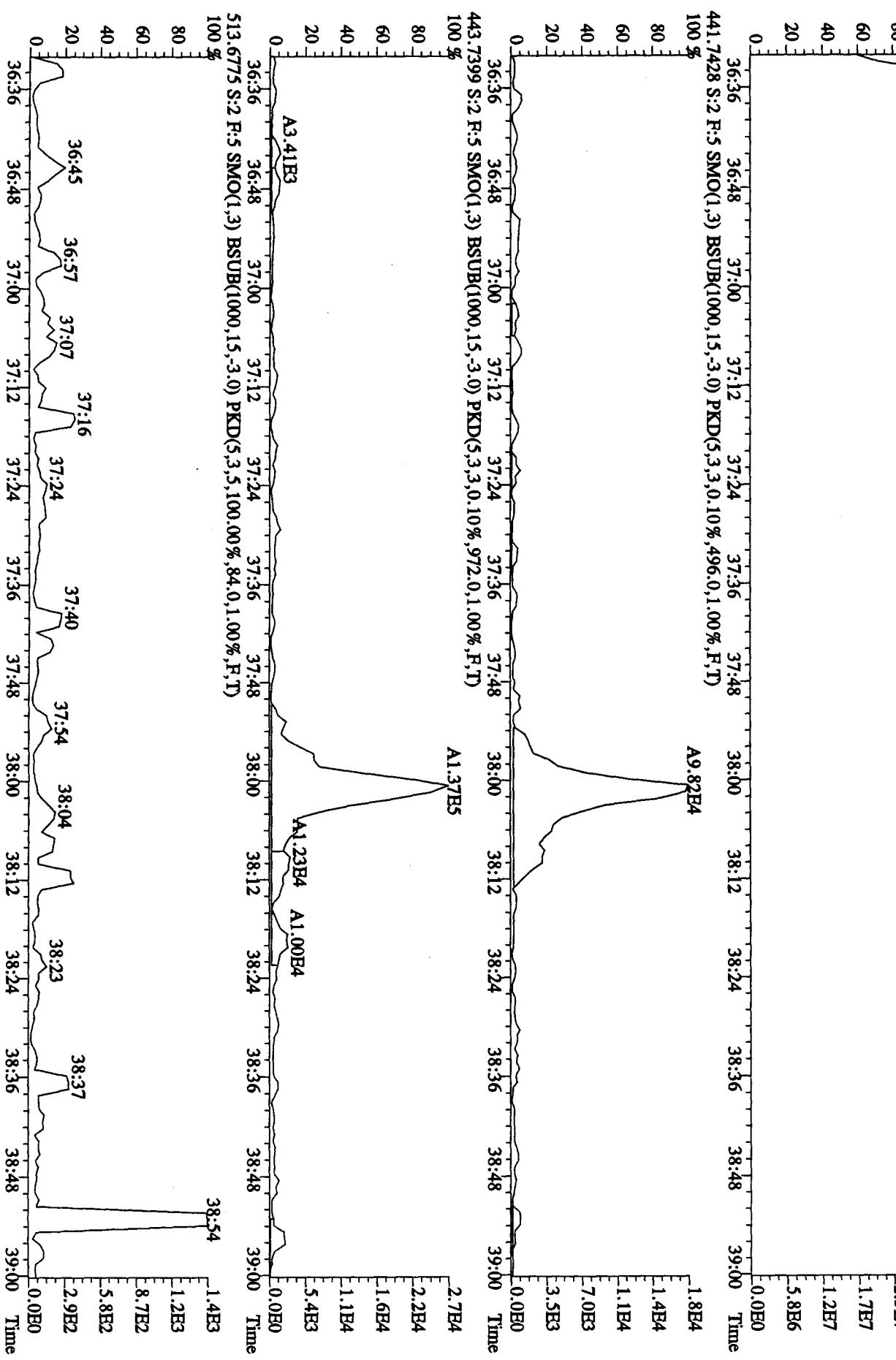


File:01MY104D5 #1-190 Acq: 1-MAY-2010 09:32:20 GC El+ Voltage SIR Autospec-UltimaE

Sample2 Text:CP0301 :DB3 CFSM 3/32-03 Exp:DIOXINKES8290A

100% 36:38 36:53 37:07 37:15

88



File:01MY104D5 #1-434 Acq: 1-MAY-2010 10:16:22 GC EI+ Voltage SIR Autospec-UltimaE

Sample#3 Text:SB0501 .Solvent Blank C-14 Exp:DIOXINREF8290A

303,9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,716.0,1.00%,F,T)

100 % A1.61E4

80
60
40
20
0

A4.98E3 A3.71E3 A6.97E3 A7.07E3 A3.76E3

A2.29E4 3.2E3 1.9E3 2.6E3 1.3E3

A7.17E3 6.5E2

0.0E0

16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time

305,8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1696.0,1.00%,F,T)

100 % A1.89E4

80
60
40
20
0

A1.08E4 A1.89E4 A6.36E3 5.8E3 4.3E3 2.9E3

1.4E3

1.4E3

0.0E0

16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time

315,9419 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1696.0,1.00%,F,T)

100 % A9.58E4

80
60
40
20
0

A8.71E3 A6.22E3 A1.20E4 A1.31E4 A1.34E4 A1.24E4 A1.22E4 A1.72E4 A1.80E4 A1.50E4 1.4E4 5.7E3 2.8E3 8.5E3 1.1E4

1.4E4

0.0E0

16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time

317,9389 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,112.0,1.00%,F,T)

100 % A1.97E4 A2.06E4

80
60
40
20
0

A7.58E3 A1.46E4 A9.39E3 A1.74E4 A5.62E3 A4.49E3 A6.60E3 7.35E3 A8.21E3 A6.66E3 A1.41E4 A4.70E3 A3.92E3 A8.77E3 A5.76E3 4.0E3 3.2E3 2.4E3

1.6E3

8.0E2

0.0E0

16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time

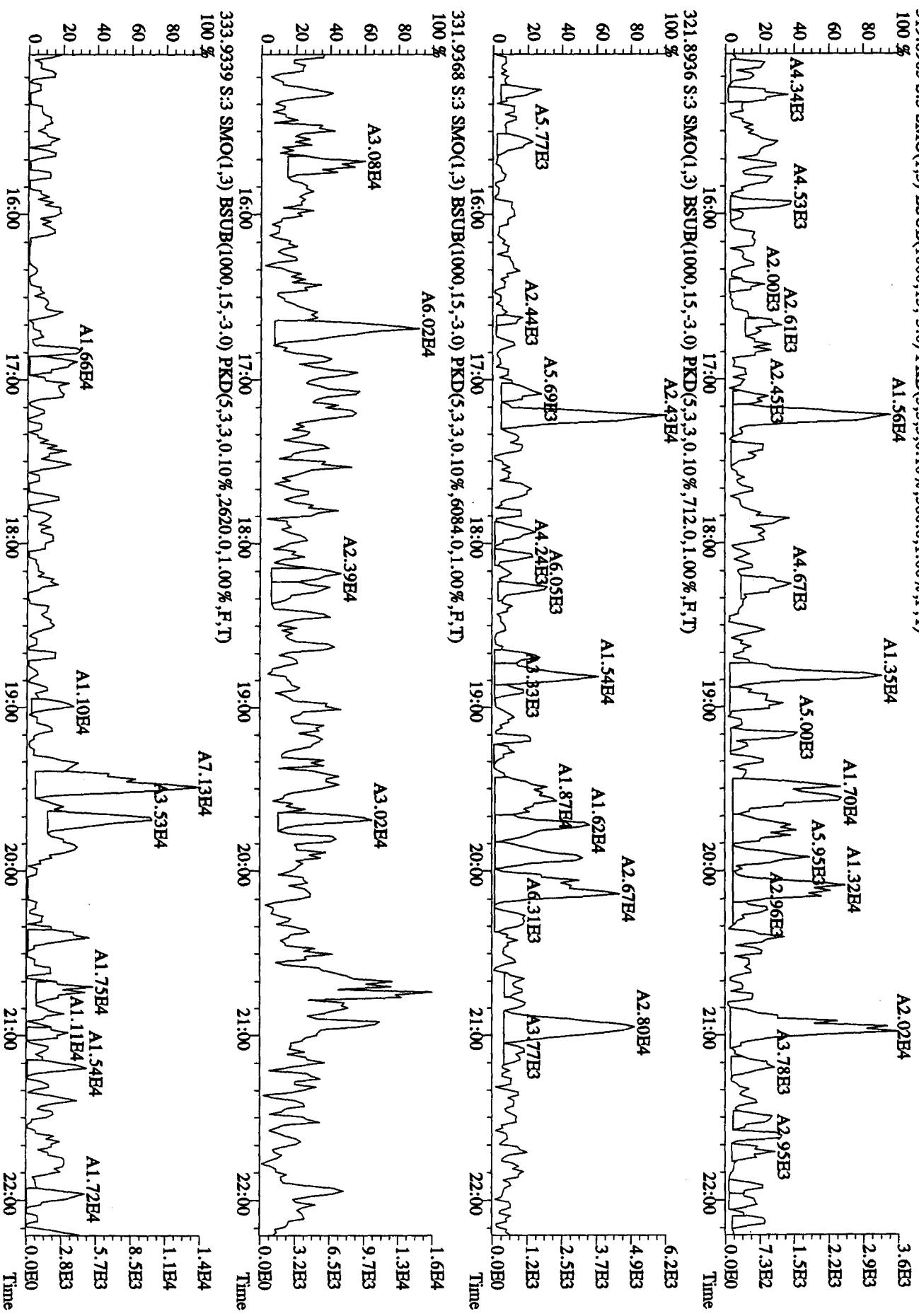
G0D130519 TestAmerica West Sacramento (916) 373 - 5600 153 of 314

File:01MY104D5 #1-434 Acq: 1-MAY-2010 10:16:22 GC EI+ Voltage SIR Autospec-UltimaB
Sample#3 Text:SB0501 :Solvent Blank C-14 Exp:DIOXINRES8290A
319 8965 S:3 SMC(1 3) BSTIB(1000 15 -30) PKD(5 3 3 0 10% 580 0 1 00% FT

319.8963 S:3 SMO(1,3) BS-UB(1000,13,-3.0) PKB(5,3,3,3,0.10%,380.0,1.00%,F,

100%
A1 56E4

100

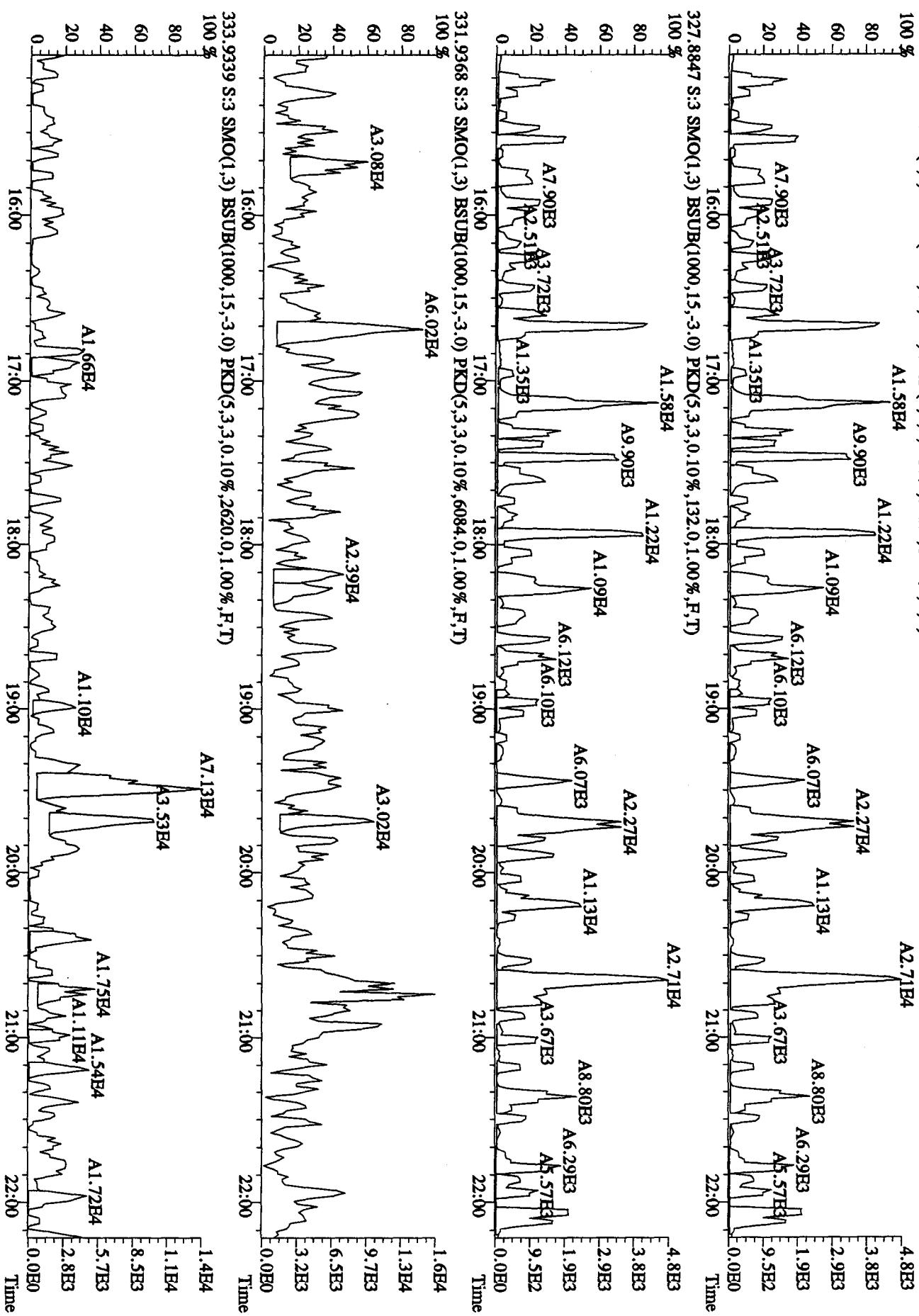


File:01MY104D5 #1-434 Acq: 1-MAY-2010 10:16:22 GC EI+ Voltage SIR Autospec-Ultimate
Sample#3 Text:SB0501 :Solvent Blank C-14 Exp:DIOXINRES8290A

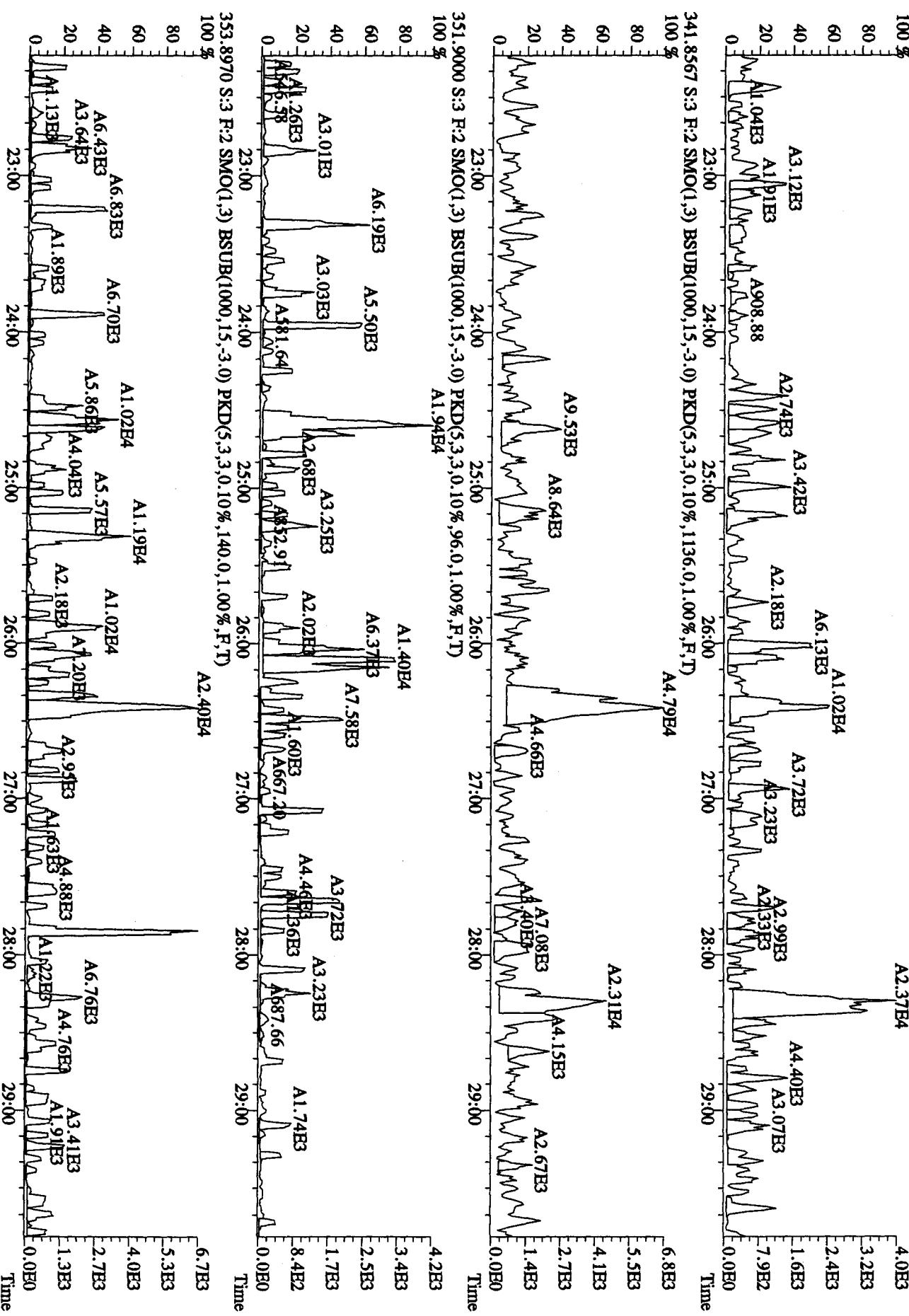
327.8847 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,132.0,1.00%,F,T)

100 3

A1.22E4

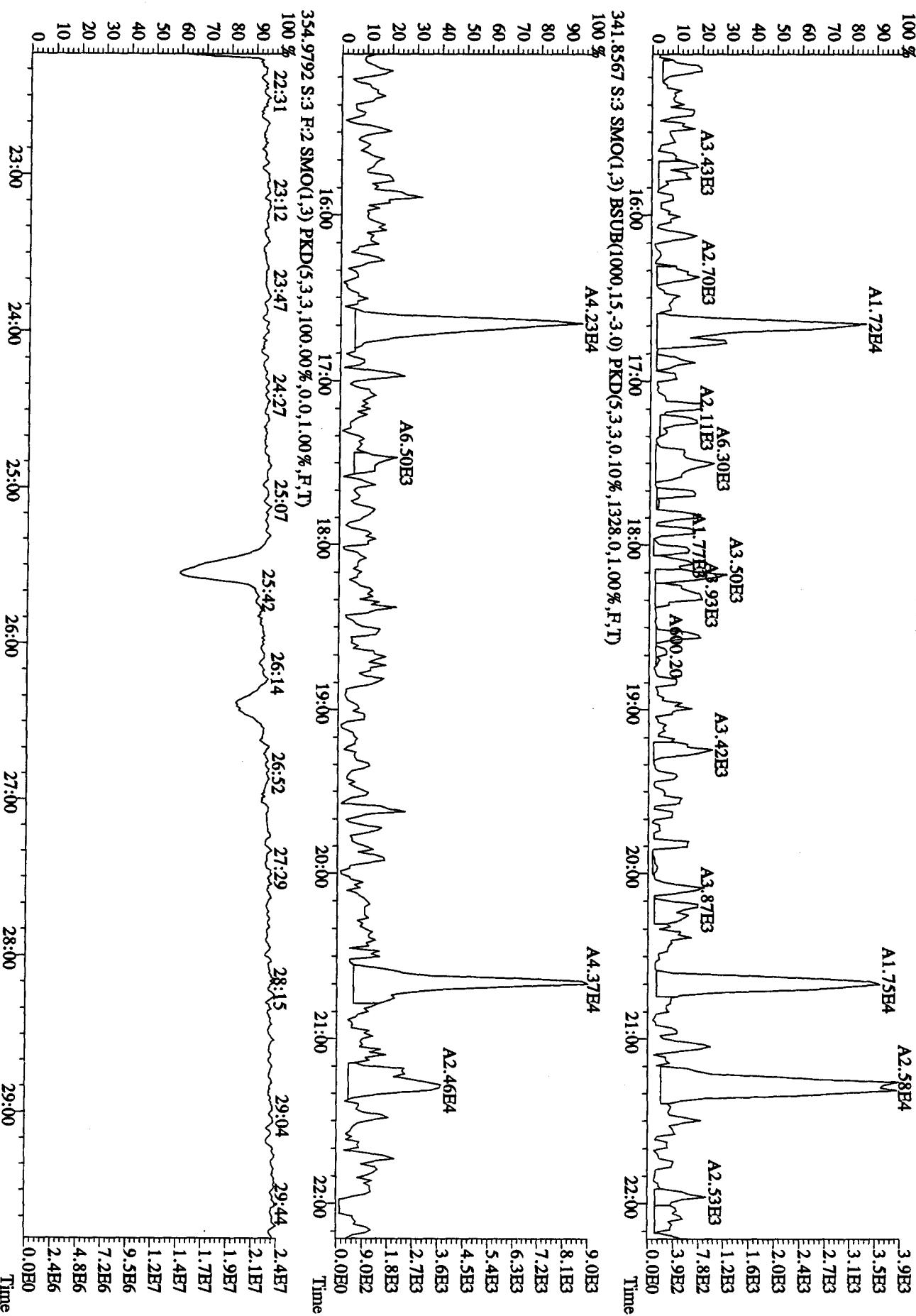


File:01MY104D5 #1-604 Acq: 1-MAY-2010 10:16:22 GC EI + Voltage SIR Autospec-UltimaE
 Sample#3 Text:SB0501 :Solvent Blank C-14 Exp:DIOXINRRE58290A
 339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,344.0,1.00%,F,T)
 100 % 4.0E3
 3.2E3
 2.4E3
 1.6E3
 0.8E3
 0.0E0



File:0IMY104D5 #1-434 Acq: 1-MAY-2010 10:16:22 GC HI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB0501 .Solvent Blank C-14 Exp:DIOXINRES8290A

339.8597 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,432.0,1.00%,F,T)



File:01MY104D5 #1-604 Acq: 1-MAY-2010 10:16:22 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:SB0501 :Solvent Blank C-14 Exp:DIOXINRES8290A
 355.8346 S:3 R:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,864.0,1.00%,F,T)
 100 % A1.39E5
 80
 60
 40
 20
 0

1.8E4

1.4E4

1.1E4

7.0E3

3.5E3

0.0E0

A3.08E4

A2.35E4

1.1E4

7.0E3

3.5E3

0.0E0

A4.69E3 A6.08E3 A4.48E3 A2.32E3 A1.25E4

1.8E4

1.4E4

1.1E4

7.0E3

3.5E3

357.8316 S:3 R:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,108.0,1.00%,F,T)
 100 % A3.68E4

1.8E4

1.4E4

1.1E4

7.0E3

3.5E3

0.0E0

A6.96E3 A1.30E3 A1.92E3 A1.38E3 A1.68E3 A5.26E3 A2.32E3 A1.42E3 A1.31E3 A1.25E3
 100 % A1.48E4

1.8E4

1.4E4

1.1E4

7.0E3

3.5E3

0.0E0

A1.06E4 A9.41E3 A5.73E3 A4.82E3 A3.12E3 A3.92E3 A7.20E3 A2.76E3 A1.85E3 A1.90E3 A4.09E3 A4.49E3 A3.94E3 A2.42E3 A1.31E3 A1.25E3
 100 % A1.48E4

1.8E4

1.4E4

1.1E4

7.0E3

3.5E3

0.0E0

A1.08E4 A8.71E3 A6.24E3 A3.94E3 A2.42E3 A1.31E3 A1.25E3
 100 % A1.48E4

1.8E4

1.4E4

1.1E4

7.0E3

3.5E3

0.0E0

A8.77E3 A6.21E3 A4.63E3 A3.31E3 A2.00E3 A1.71E3 A1.04E3 A5.26E3 A1.25E3
 100 % A1.48E4

1.8E4

1.4E4

1.1E4

7.0E3

3.5E3

0.0E0

A3.29E3 A2.47E3 A1.98E3 A4.91E3 A3.53E3 A2.78E3 A3.12E3 A2.00E3 A1.71E3 A1.04E3 A5.26E3 A1.25E3
 100 % A1.48E4

1.8E4

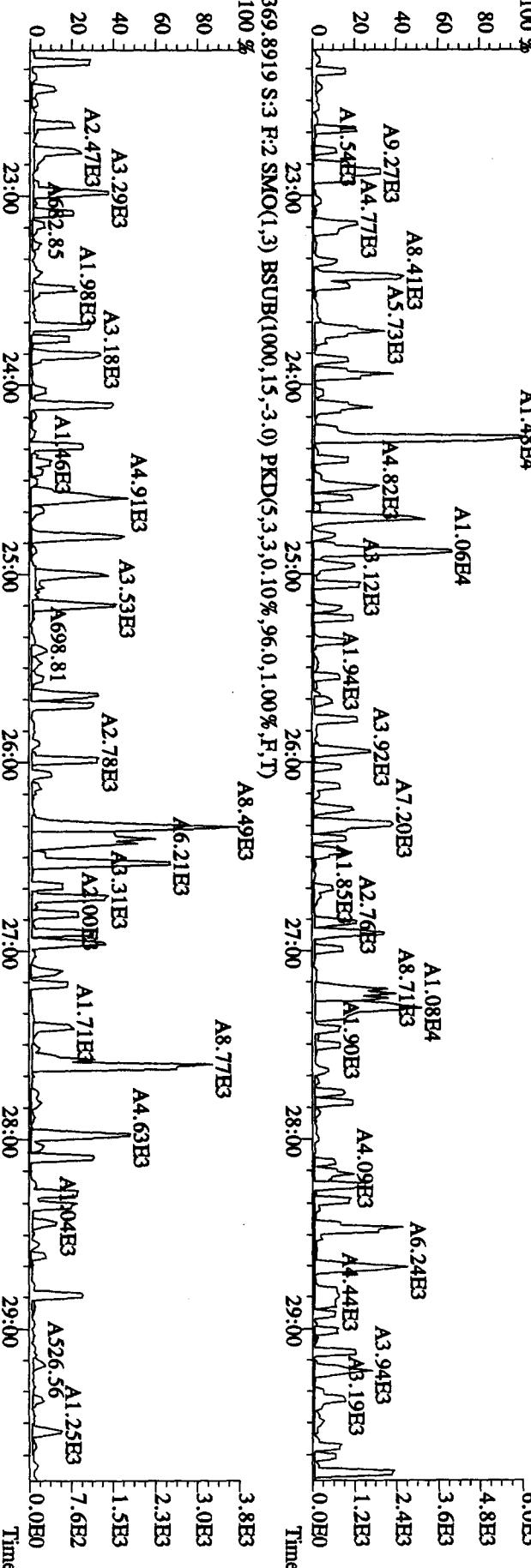
1.4E4

1.1E4

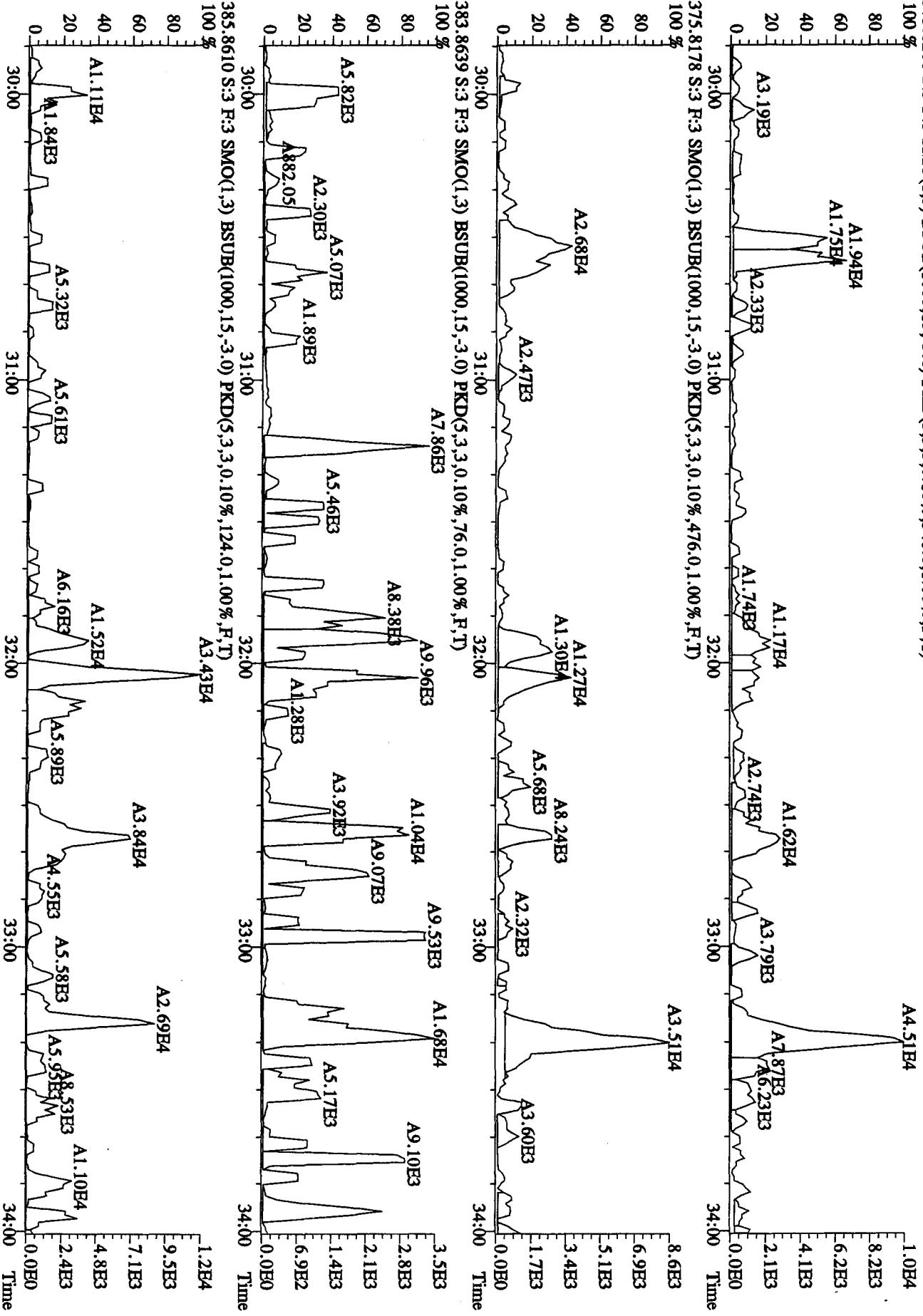
7.0E3

3.5E3

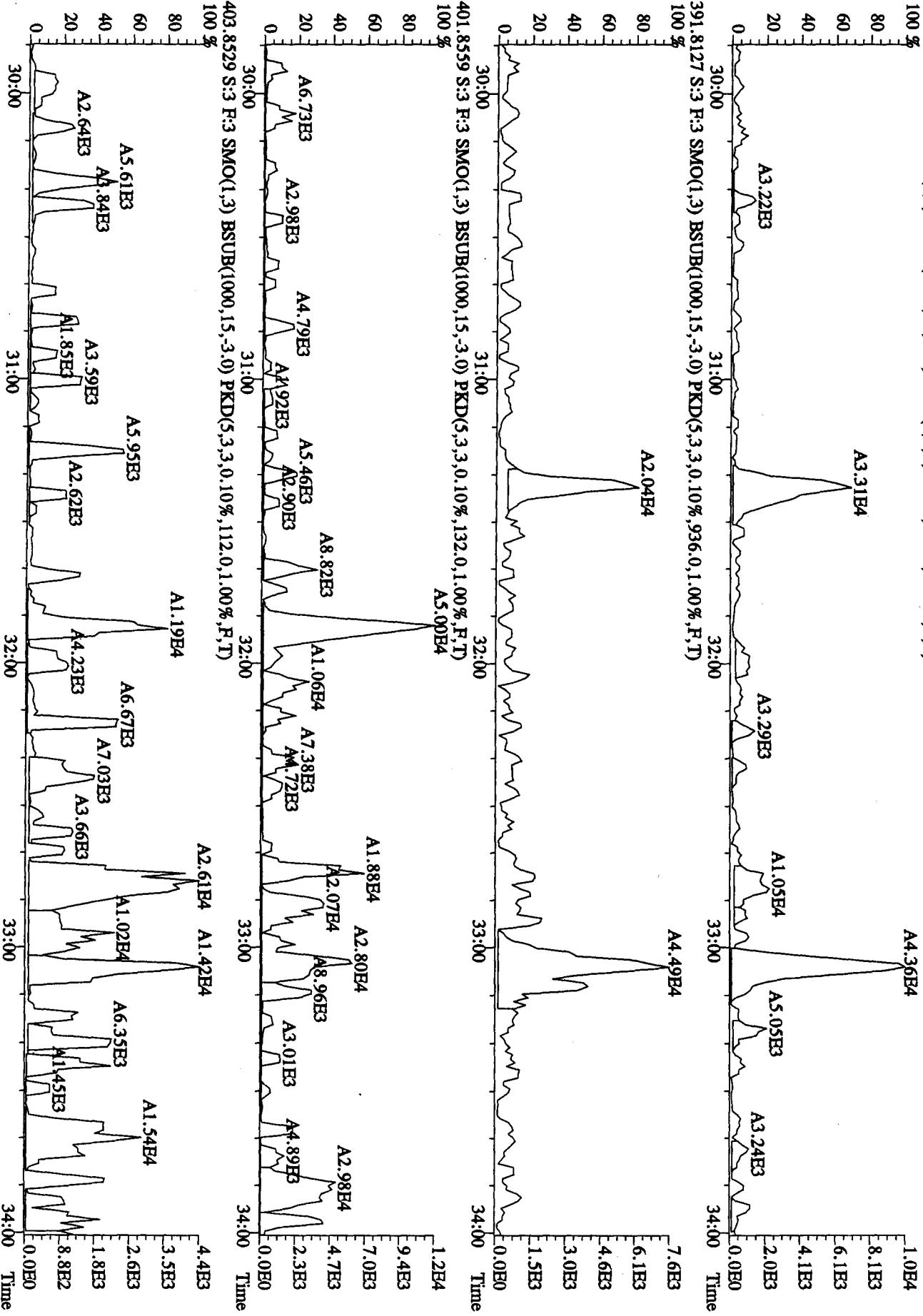
0.0E0



File:01MY104D5 #1-317 Acq: 1-MAY-2010 10:16:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB6501 :Solvent Blank C-14 Exp:DIOXINRES8290A
373.8203 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0.10%,348.0,1.00%,F,T)
100 %



File:01MY104D5 #1-317 Acq: 1-MAY-2010 10:16:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#: SB0501 :Solvent Blank C-14 Exp:DIOXINRES8290A
389.8157 S:3 R:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,600,0.1.00%,F,T)
100 %



File:01MY104D5 #1-198 Acq: 1-MAY-2010 10:16:22 GC EI+ Voltage SIR Autospec-UltimaE

Sample#3 Text:SB0501 .:Solvent Blank C-14 Exp:DIOXINRBS290A

407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,956.0,1.00%,F,T)

409.7789 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,908.0,1.00%,F,T)

A3.87E4

1.0E4

8.4E3

6.3E3

4.2E3

2.1E3

0.0E0

A4.33E4

Time

80

60

40

20

0

80

60

40

20

0

80

60

40

20

0

80

60

40

20

0

80

60

40

20

0

80

60

40

20

0

80

60

40

20

0

80

60

40

20

0

80

60

40

20

0

80

60

40

20

0

80

60

40

20

0

80

60

40

20

0

80

60

40

20

0

80

60

40

20

0

80

60

40

20

0

80

60

40

20

0

80

60

40

20

0

80

60

40

20

0

80

60

40

20

0

80

60

40

20

0

File:01MY104D5 #1-198 Acq: 1-MAY-2010 10:16:22 GC EI+ Voltage SIR Autospec-UltimaE

Sample#3 Text:SB0501 :Solvent Blank C-14 Exp:DIOXINRES290A

423.7766 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,564.0,1.00%,F,T)

100 %

A4.22E4

A5.28E4

1.2E4

80

60

40

20

0

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

40

20

0

100 %

80

60

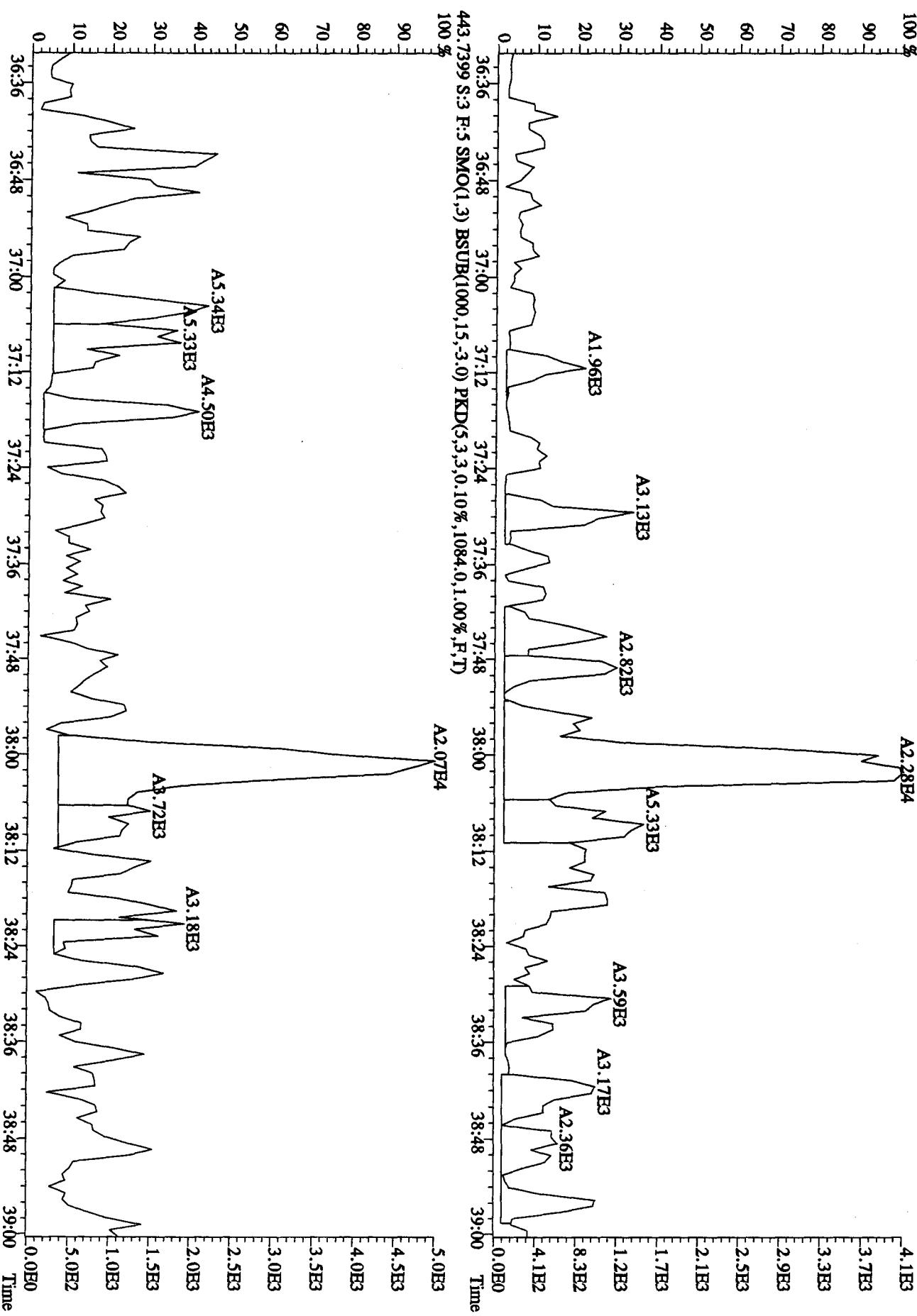
40

20

0

100 %

File:01MY104D5 #1-190 Acq: 1-MAY-2010 10:16:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB0501 ;Solvent Blank C-14 Exp:DIOXINRES8290A
441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,400.0,1.00%,F,T)
100 %



1.2E4

9.9E3

7.4E3

4.9E3

2.5E3

1.4E4

8.2E3

5.5E3

1.1E4

8.8E3

6.6E3

4.4E3

2.2E3

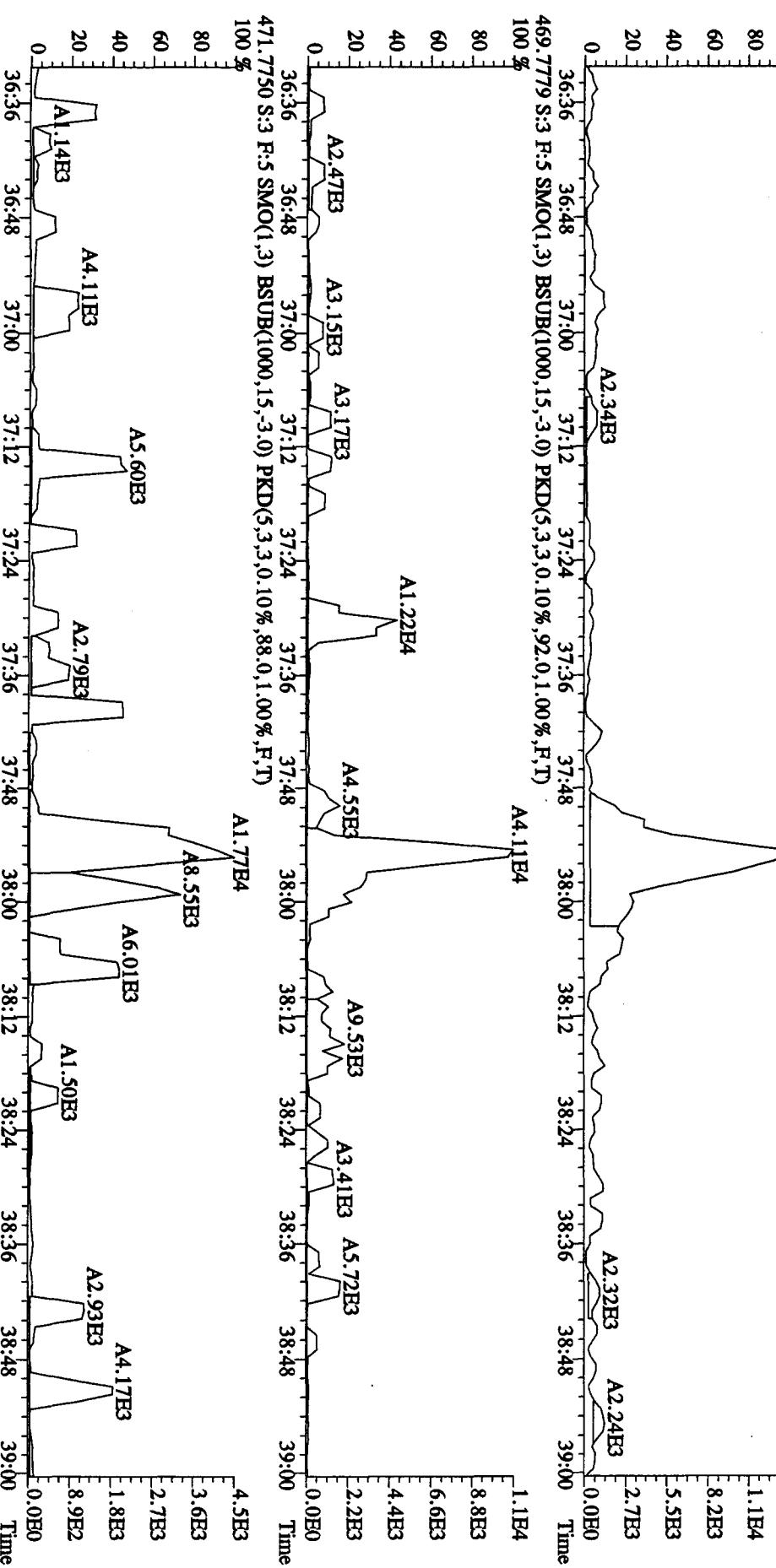
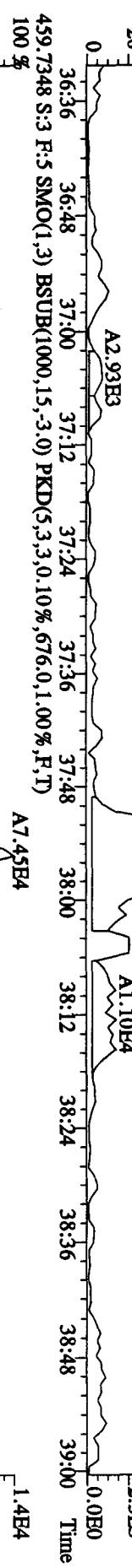
0.0E0

-2.7E3

-1.8E3

-8.9E2

-0.0E0



File:01MY104D5 #1-434 Acq: 1-MAY-2010 10:16:22 GC EI+ Voltage SIR Autospec-UltimaB

Sample#3 Text:SB0501 :Solvent Blank C-14 Exp:DIOXINRES8290A

354.9792 S:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 % 15:28 15:56 16:23 17:02 17:24 17:48 18:20 18:55 19:31 20:01 20:33 21:08 21:33

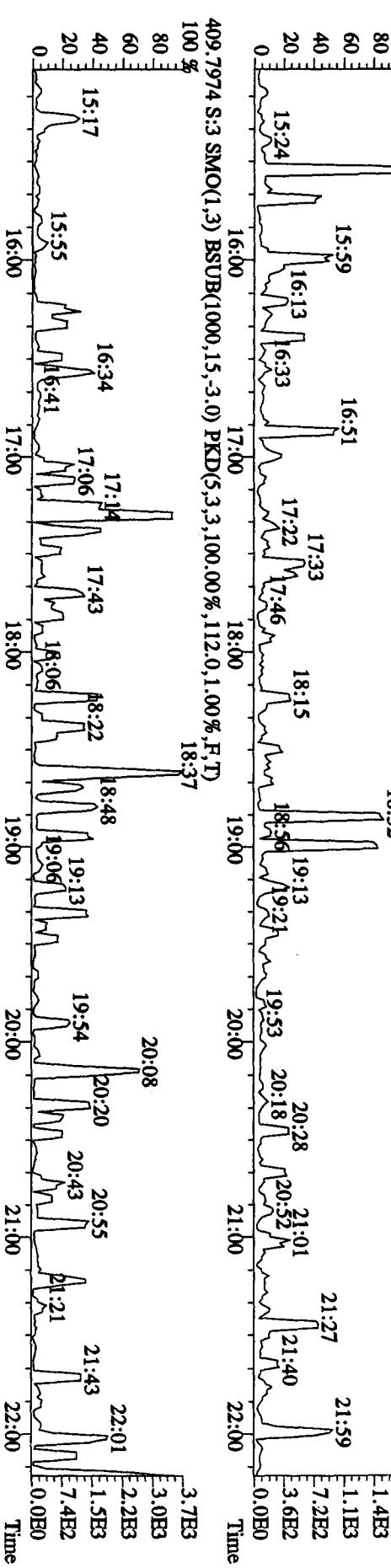
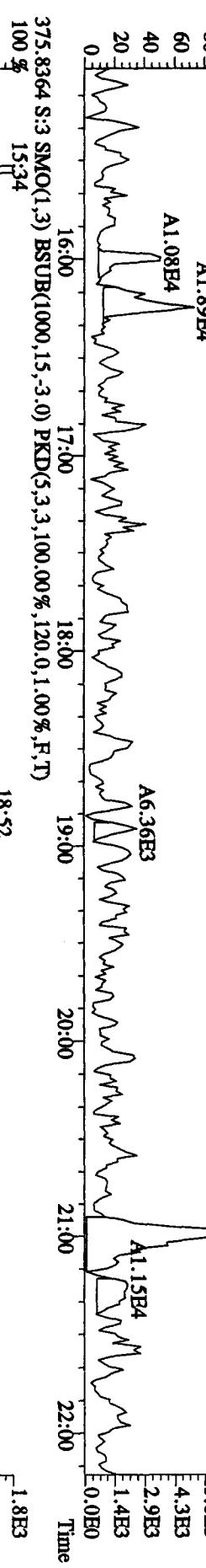
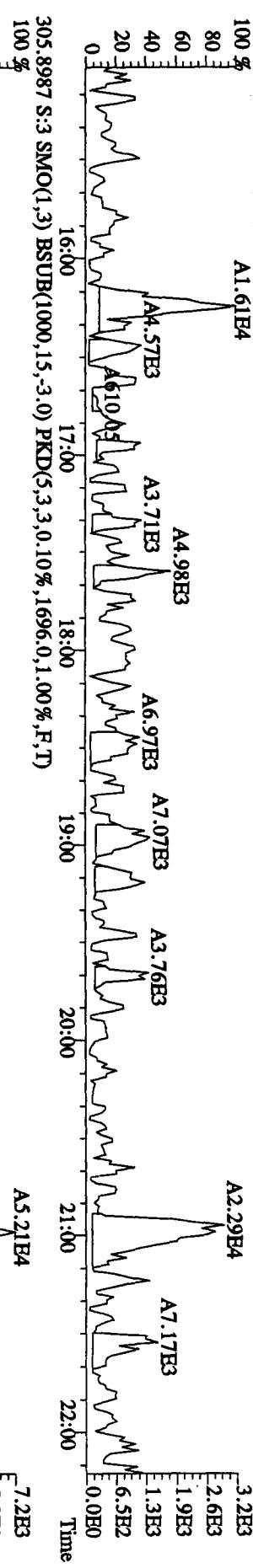
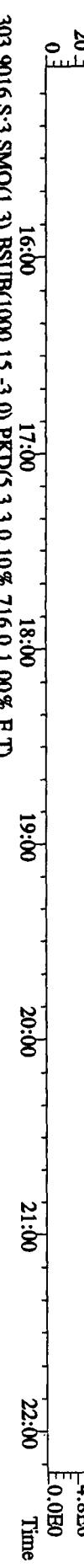
80 1.9E7

60 1.4E7

40 9.6E6

20 4.8E6

0 0.0E0



File:01MY104D5 #1-604 Acq: 1-MAY-2010 10:16:22 GC EI+ Voltage SIR Autospec-UltimaH
Sample#3 Text:SB0501 :Solvent Blank C-14 Exp:DIOXINRES8290A

354.9792 S:3 E:2 SMO(1.3) PKD(5.3.3.180.00% 0.0.1.00% F.T)

100 28 22:31 23:12 23:4/ 24:2/ 23:0/ 2:1

33

80

卷之三

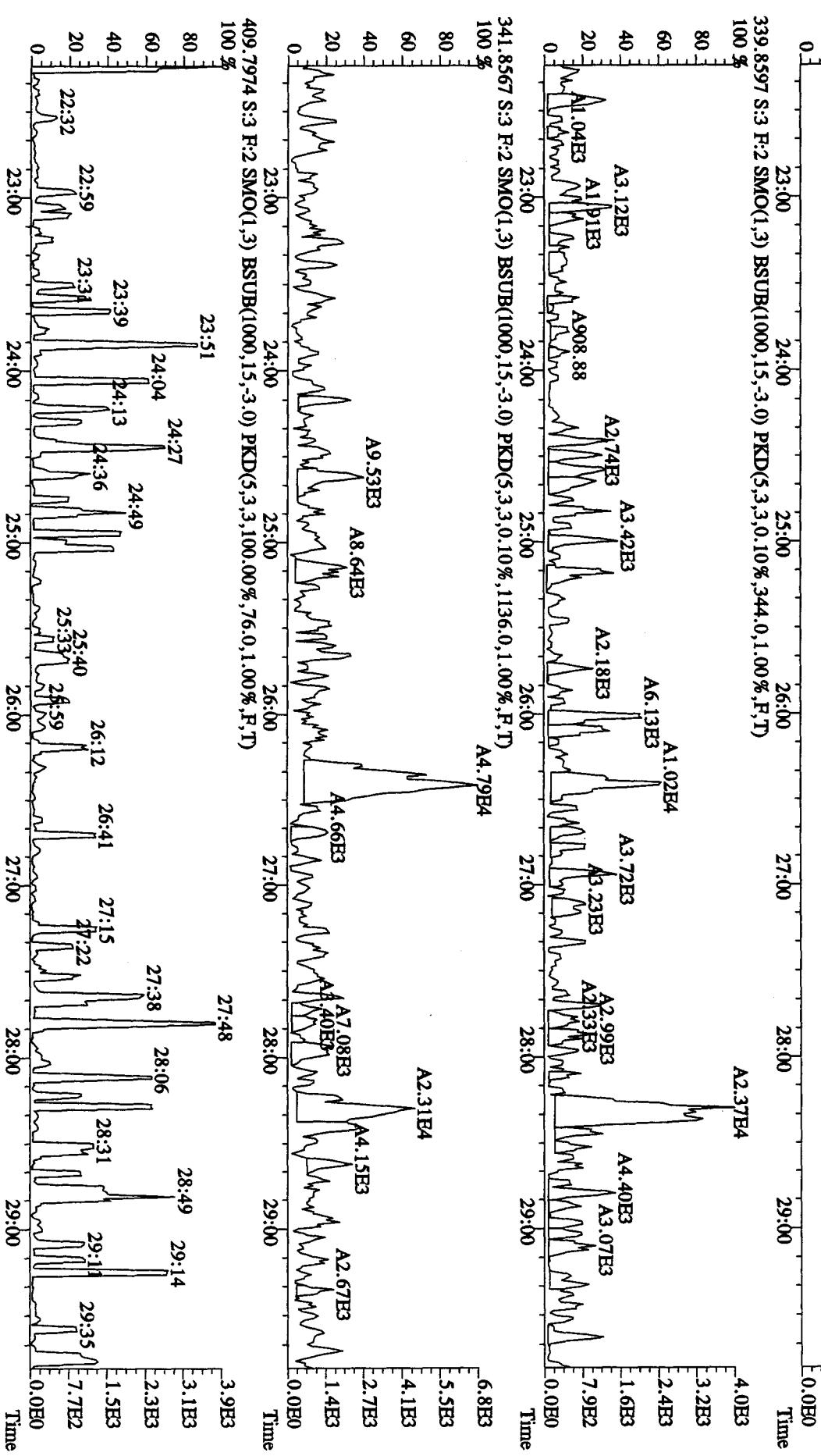
三
八

40

20

卷之三

20



File:01MY104D5 #1-317 Acq: 1-MAY-2010 10:16:22 GC EI+ Voltage SIR Autospec-UltimaE

Sample#3 Tex:SB0501 :Solvent Blank C-14 Exp:DIOXINRES8290A

430.9728 S:3 F:3 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)

100 % 30:07 30:27 30:53 31:17 31:35 32:14 32:28 32:58 33:15 33:45 3.4E7

80 60 40 20 0

30:00 31:00 32:00 33:00 34:00 Time

2.7E7
2.0E7
1.3E7
6.7E6

3.4E7

2.7E7

2.0E7

1.3E7

6.7E6

3.4E7

2.7E7

2.0E7

1.3E7

6.7E6

3.4E7

2.7E7

2.0E7

1.3E7

6.7E6

3.4E7

2.7E7

2.0E7

1.3E7

6.7E6

3.4E7

2.7E7

2.0E7

1.3E7

6.7E6

3.4E7

2.7E7

2.0E7

1.3E7

6.7E6

3.4E7

2.7E7

2.0E7

1.3E7

6.7E6

3.4E7

2.7E7

2.0E7

1.3E7

6.7E6

3.4E7

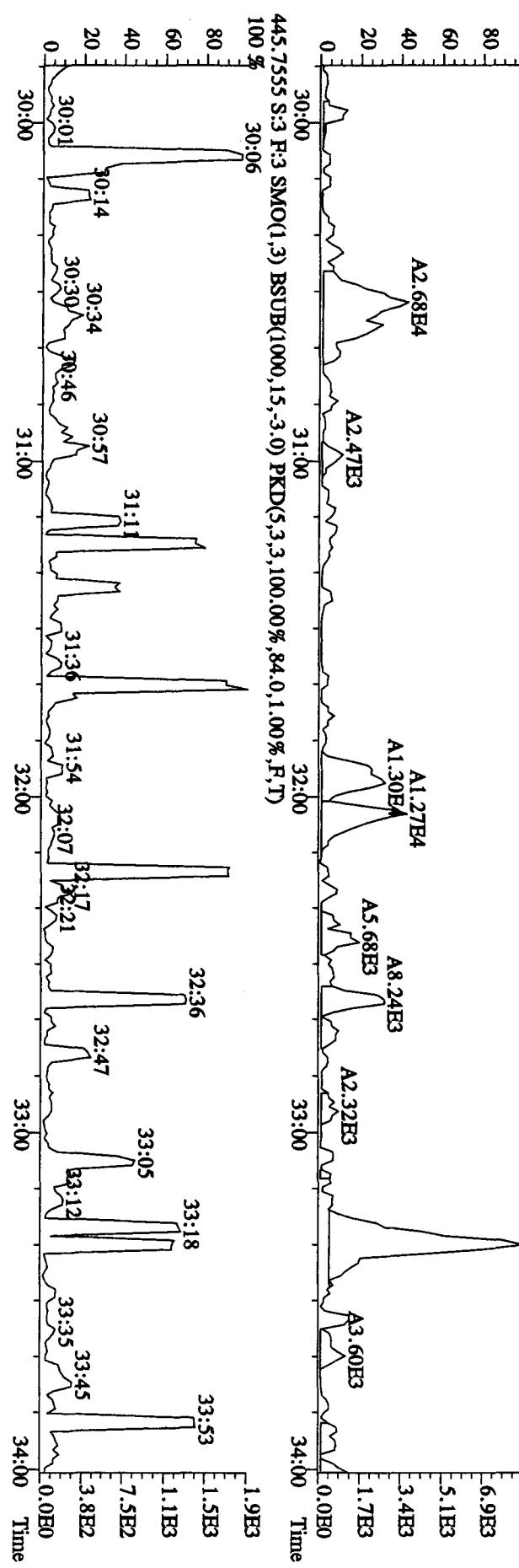
2.7E7

2.0E7

1.3E7

6.7E6

373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,348.0,1.00%,F,T)
375.8178 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,476.0,1.00%,F,T)



File:01MY104D5 #1-198 Acq: 1-MAY-2010 10:16:22 GC EI+ Voltage SIR Autospec-UltimaE

Sample#3 Text:SB0501 Solvent Blank C-14 Exp:DIOXINRES8290A

430.9728 S:3 F:4 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,R,T)

100 % 334:06 34:19 34:32 34:41 35:06 35:31 35:42 35:50 36:01 36:17

3.4E7

2.7E7

2.0E7

1.4E7

1.0E4

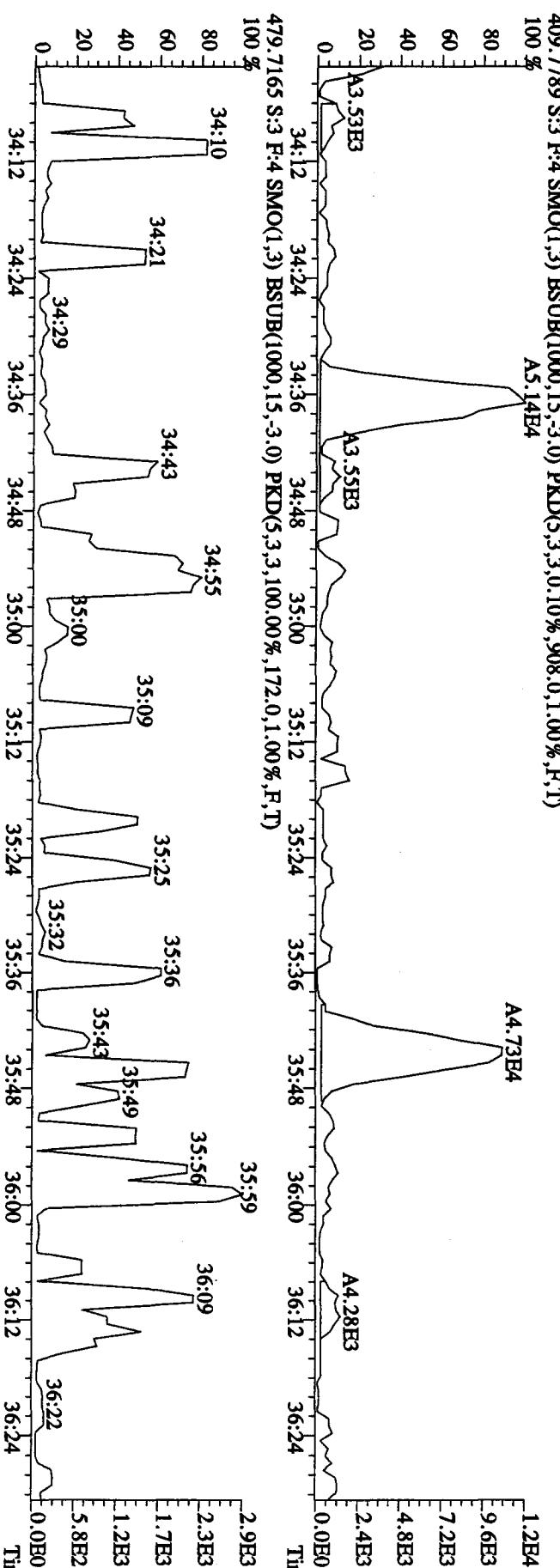
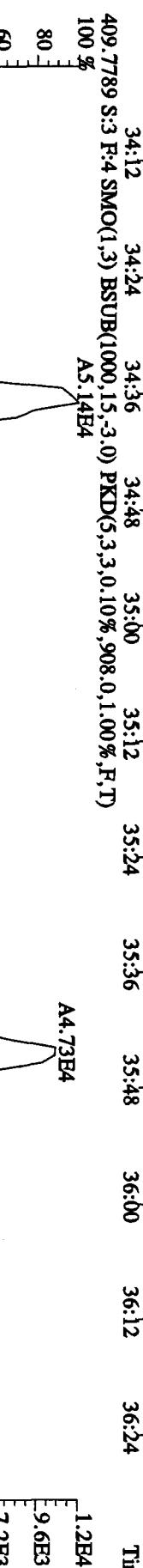
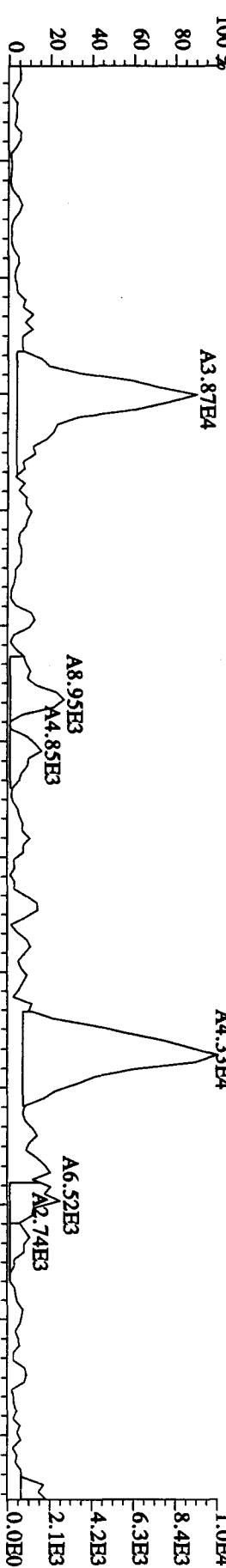
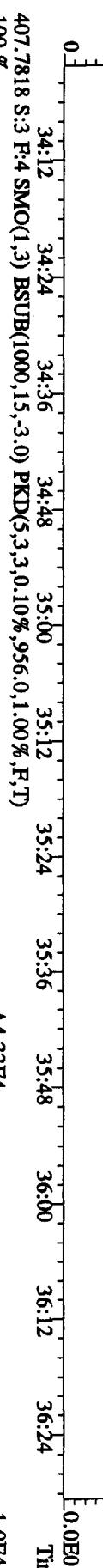
8.4E3

6.3E3

4.2E3

2.1E3

0.0E0



File:01MY104D5 #1-190 Acq: 1-MAY-2010 10:16:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB0501 .Solvent Blank C-14 Exp:DIOXINRHS8290A

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

100 % 36:44 36:58 37:17 37:27 37:37 37:45 38:08 38:16 38:24 38:32

2.9E7 2.3E7 1.7E7 1.2E7 5.8E6

80 60 40 20 0

36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

0.0E0

441.7428 S:3 R:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,400.0,1.00%,F,T)

100 % 36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

4.1E3 3.3E3 2.5E3 1.7E3 1.0E3 8.3E2 0.0E0

80 60 40 20 0

36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

0.0E0

A1.96E3 A3.13E3 A2.82E3 A2.28E4

40 20 0

36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

0.0E0

A5.33E3 A3.59E3 A3.17E3 A2.36E3

40 20 0

36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

0.0E0

A2.07E4

80 60 40 20 0

36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

0.0E0

A5.34E3 A4.50E3

40 20 0

36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

0.0E0

A3.72E3 A3.18E3

40 20 0

36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

0.0E0

513.6775 S:3 R:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,56.0,1.00%,F,T)

100 % 36:48 37:28

5.0E3 4.0E3 3.0E3 2.0E3 1.0E3 1.0E3 0.0E0

80 60 40 20 0

36:43 36:53 37:01 37:11 37:21 37:32 37:44 37:53 38:08 38:17 38:30 38:37 38:45 38:56 39:00 Time

0.0E0

1.8E3 1.4E3 1.1E3 7.1E2 3.6E2

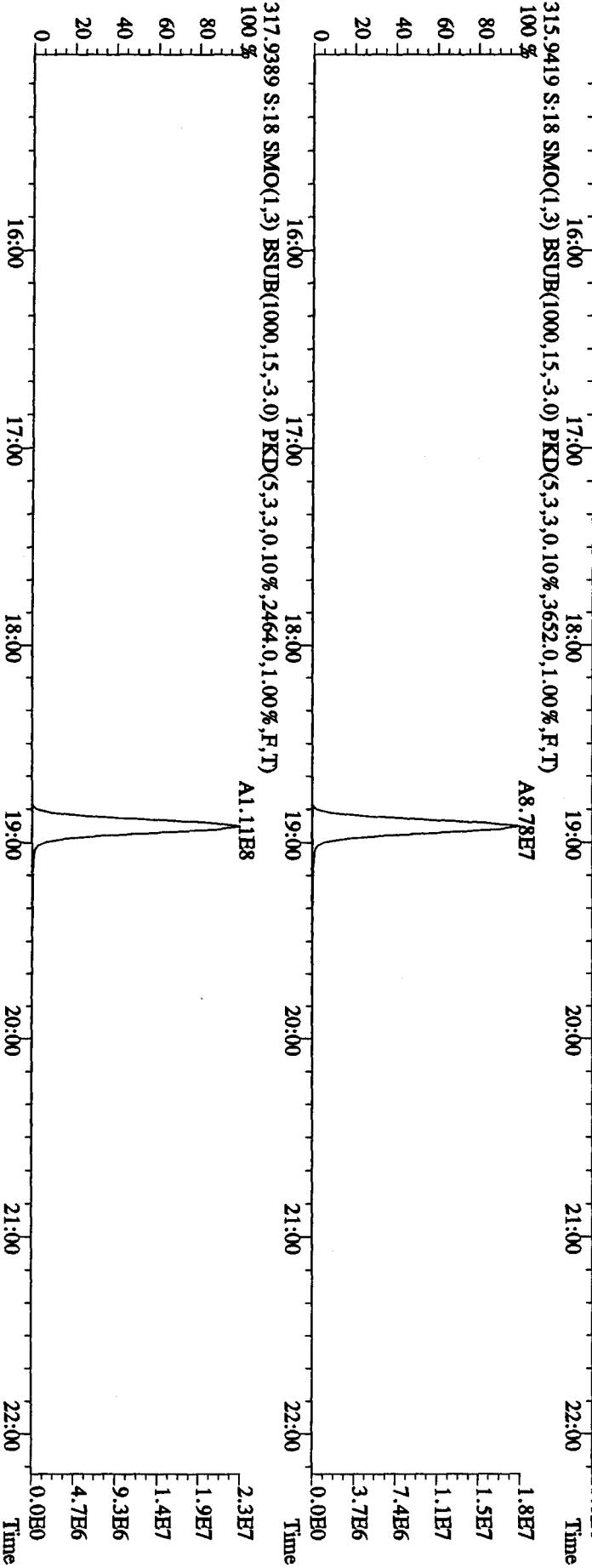
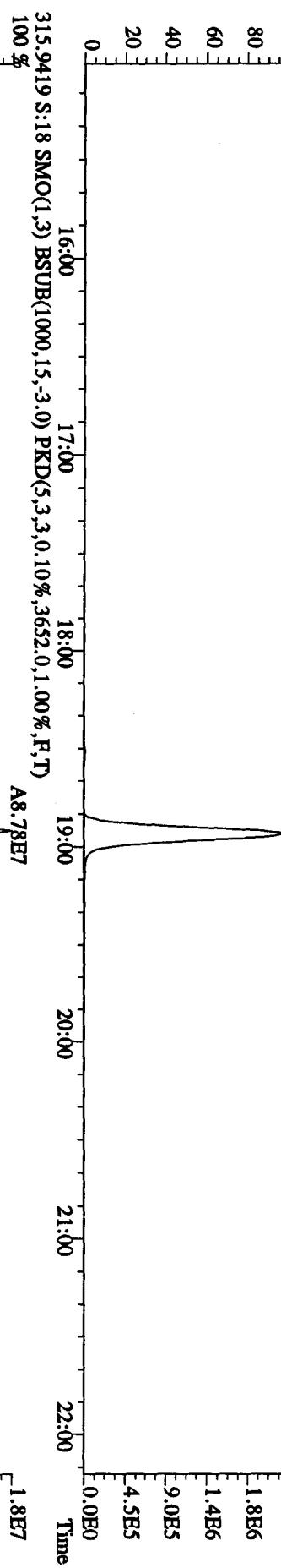
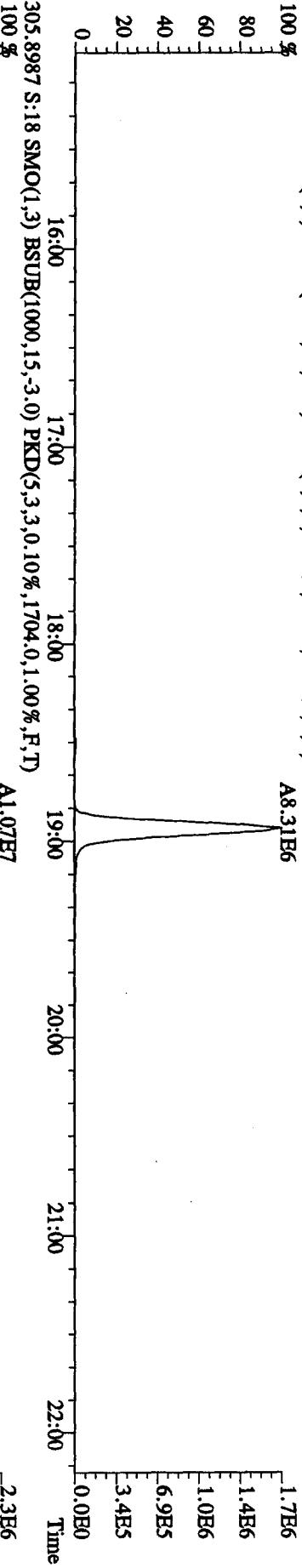
40 20 0

36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

0.0E0

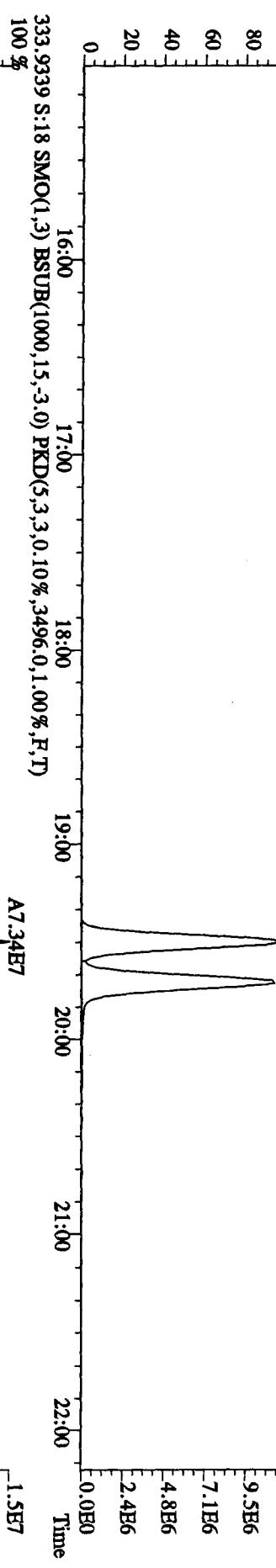
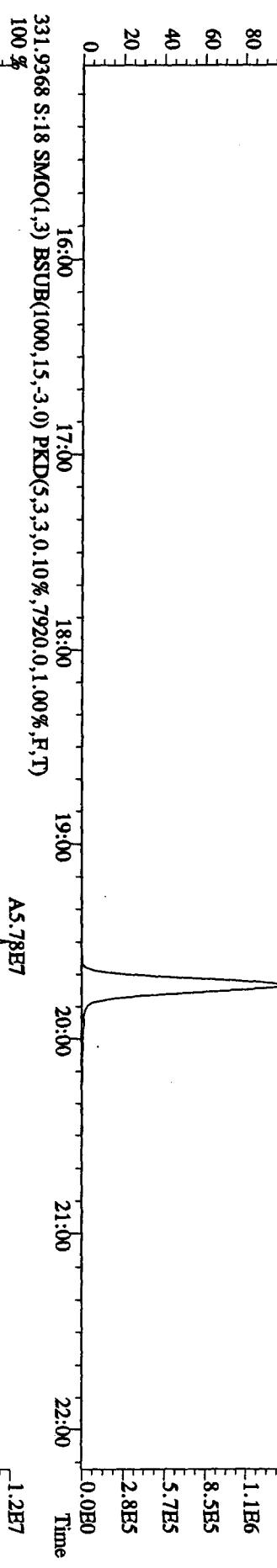
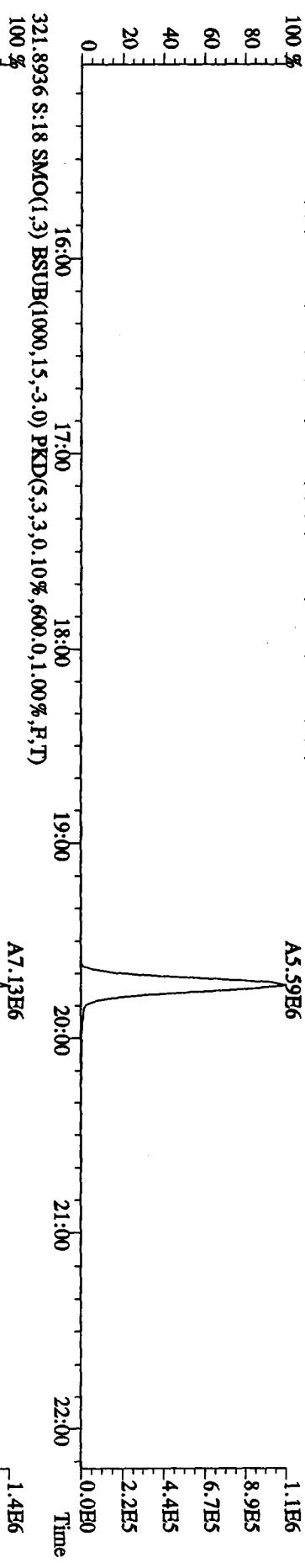
G0D130519

File:01MY104D5 #1-434 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A
 303.9016 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,812.0,1.00%,F,T)
 A8.31E6



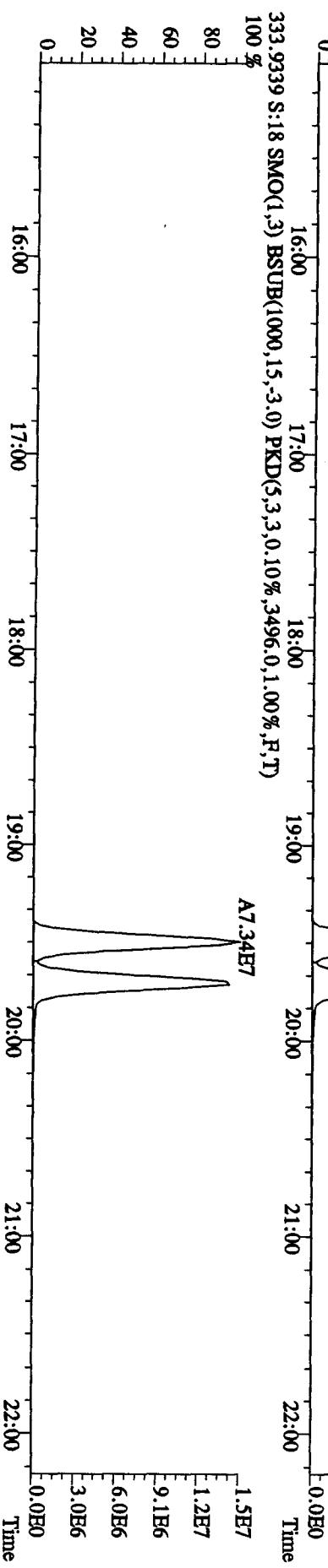
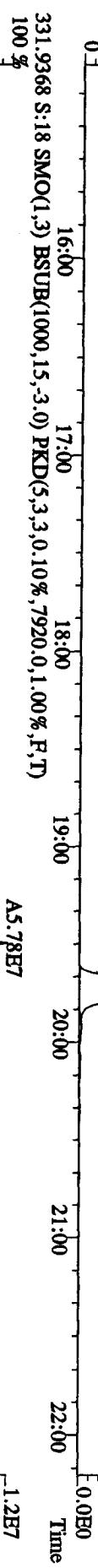
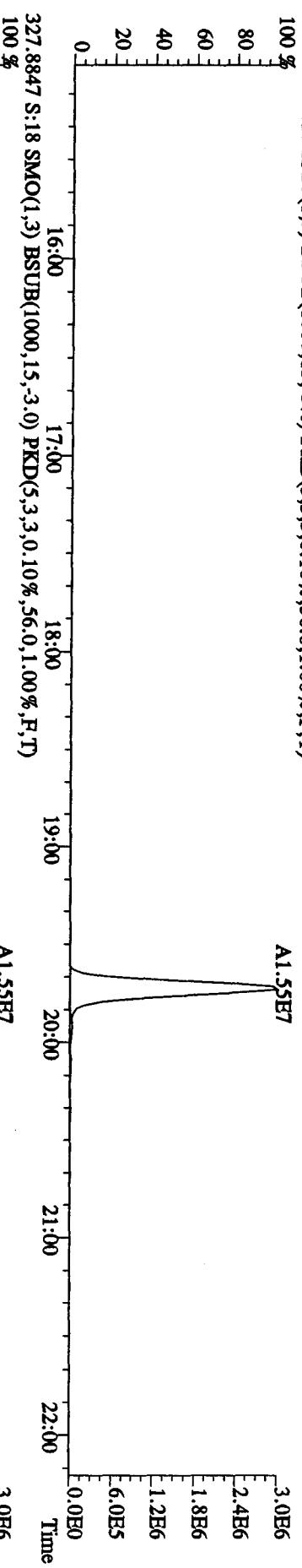
File:01MY104D5 #1-434 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A
319.8965 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,808.0,1.00%,F,T)

A5.59E6 1.1E6
80 8.9E5
60 6.7E5
40 4.4E5
20 2.2E5



16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time

File:01MY104D5 #1-434 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#18 Text:ST0501A .CS3 10DXN083 Exp:DIOXINRES8290A
 327.8847 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,56.0,1.00%,F,T)
 100 %
 80
 60
 40
 20
 0



File:01MY104D5 #1-605 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-UltimaE

Sample# 8 Text:ST0501A ;CS3 10DXN083 Exp:DIOXINRES8290A

339.8597 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0,10%,1344.0,1.00%,F,T)

100 % A4.32E7

341.8567 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0,10%,2380.0,1.00%,F,T)

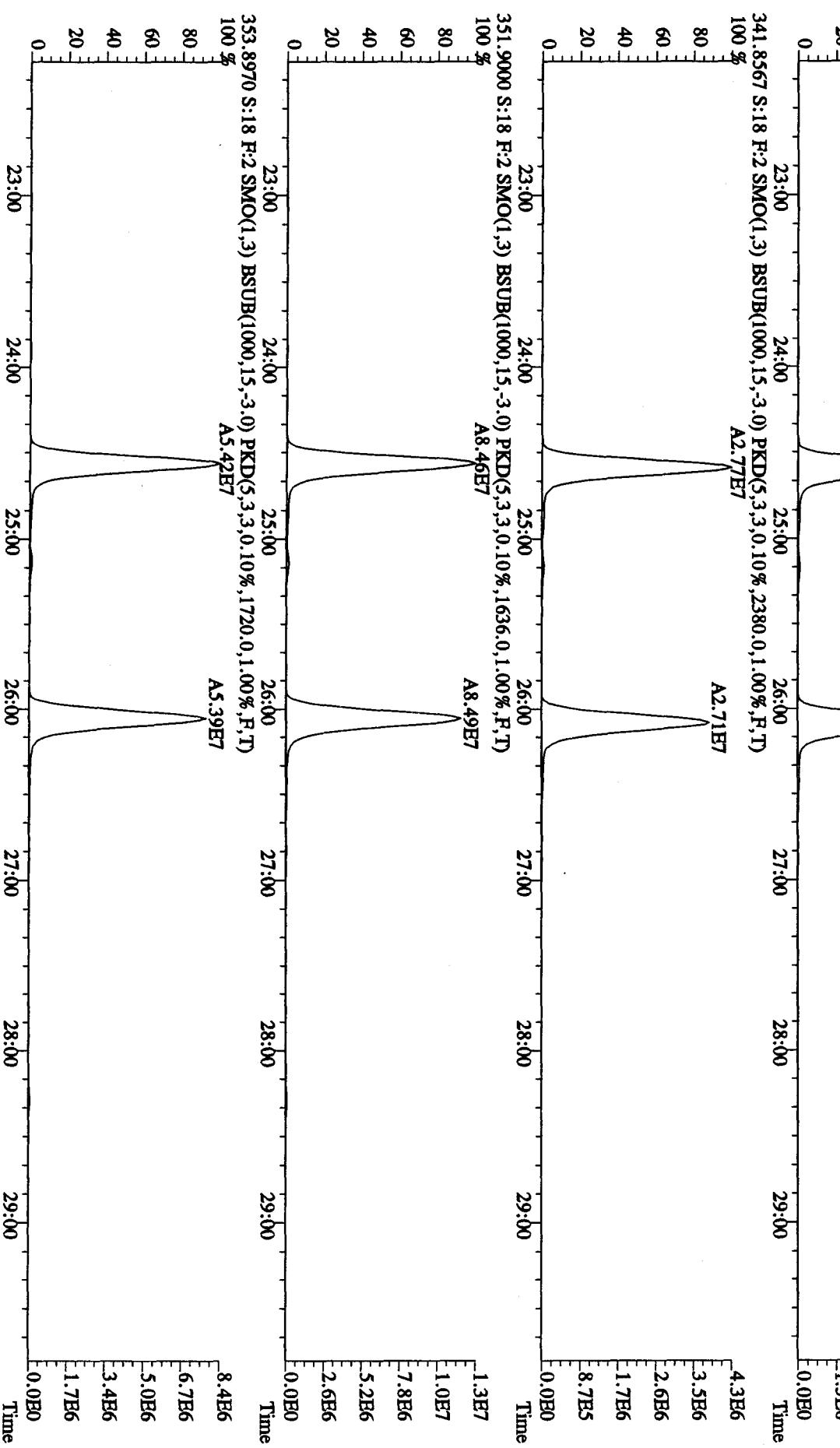
100 % A2.77E7

351.9000 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0,10%,1636.0,1.00%,F,T)

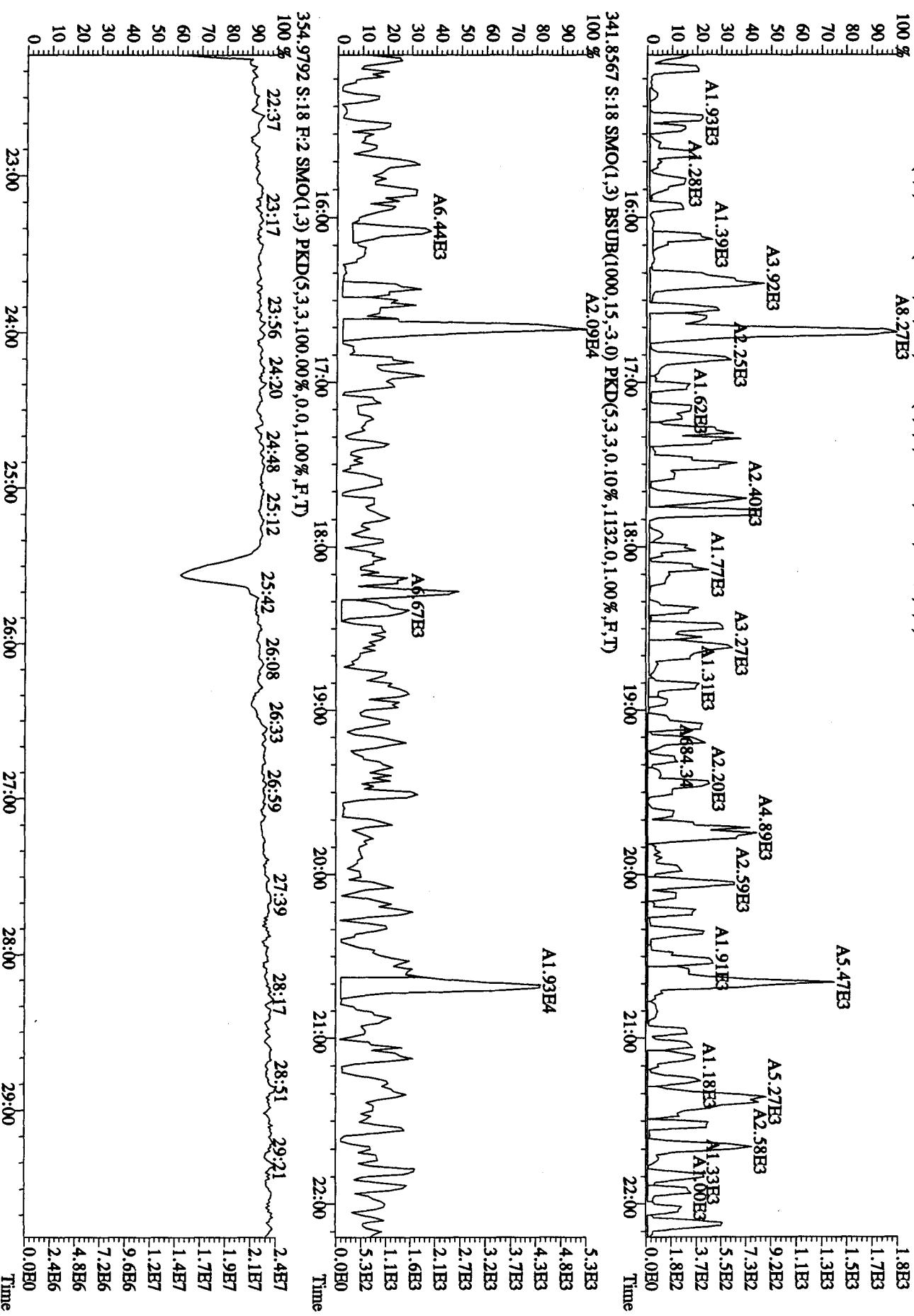
100 % A8.46E7

353.8970 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0,10%,1720.0,1.00%,F,T)

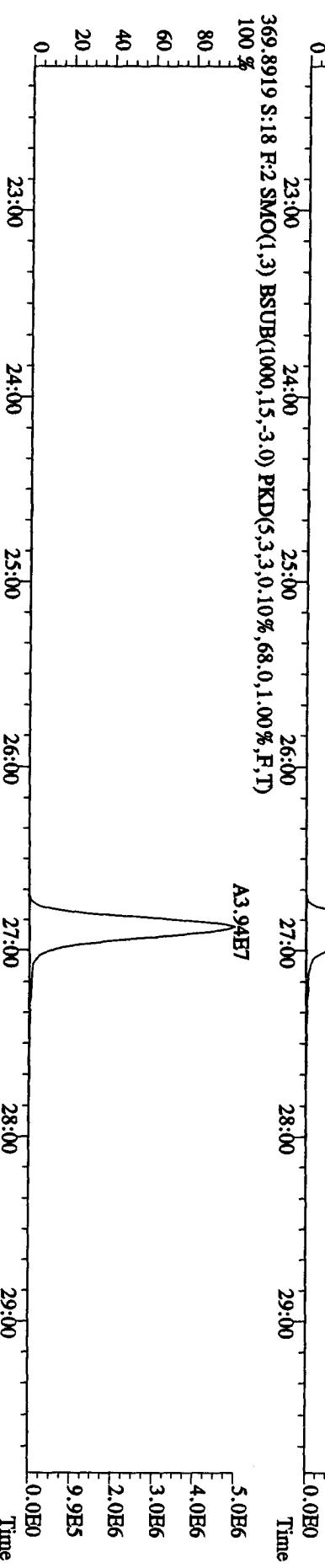
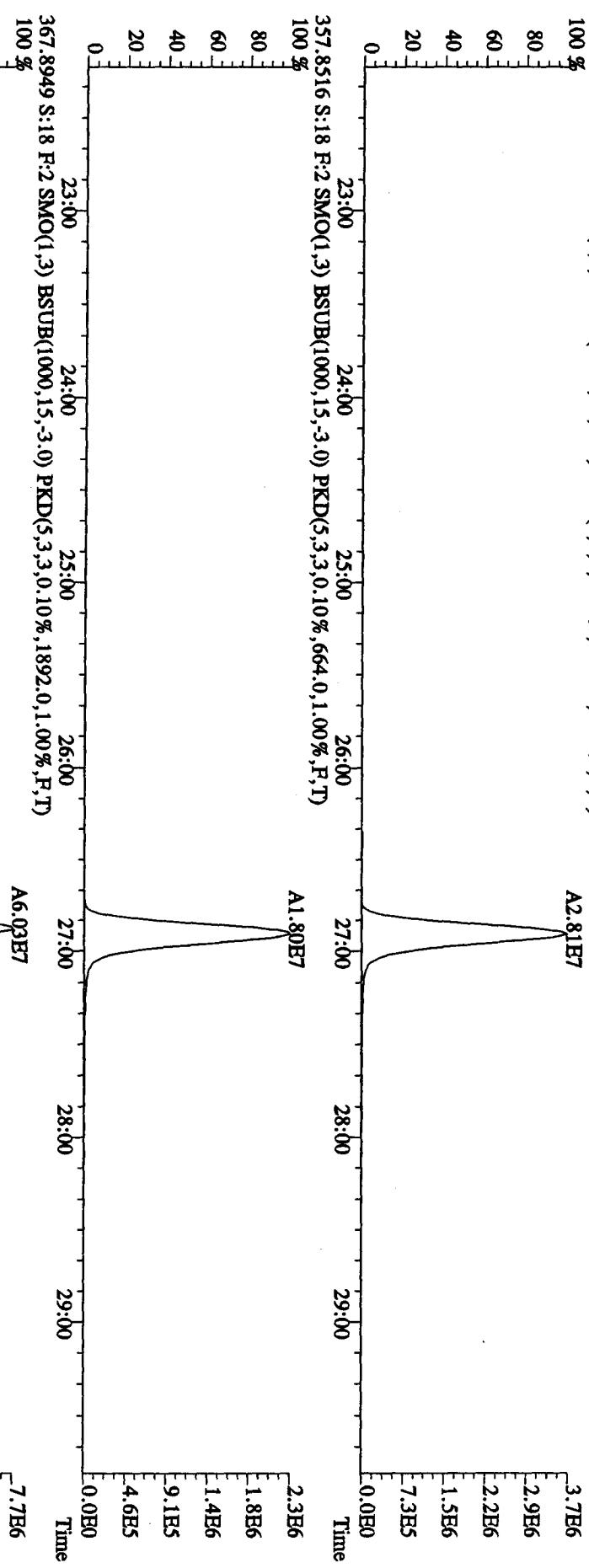
100 % A5.42E7



File:01MY104D5 #1-434 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES820A
 339.8597 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,48.0,1.00%,F,T)
 A8.27E3



File:01MY104D5 #1-605 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A
 355.8546 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1524.0,1.00%,F,T)
 100 % A2.81E7 3.7E6
 80 2.9E6
 60 2.2E6
 40 1.5E6
 20 1.0E6
 0 0.0E0



File:01MY104D5 #1-316 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#18 Tex:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A

373.8208 S:18 R:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,332.0,1.00%,F,T)

A3.41E7 A3.88E7 9.2E6

80 A3.41E7 7.3E6

60 A3.41E7 5.5E6

40 A3.41E7 3.7E6

20 A3.41E7 1.8E6

0 A3.41E7 0.0E0 Time

375.8178 S:18 R:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,68.0,1.00%,F,T)

A3.03E7 A3.58E7 7.1E6

80 A3.03E7 5.7E6

60 A3.03E7 4.3E6

40 A3.03E7 2.9E6

20 A3.03E7 1.4E6

0 A3.03E7 0.0E0 Time

383.8639 S:18 R:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,68.0,1.00%,R,T)

A4.24E7 A3.84E7 9.7E6

80 A4.24E7 7.8E6

60 A4.24E7 5.8E6

40 A4.24E7 3.9E6

20 A4.24E7 1.9E6

0 A4.24E7 0.0E0 Time

30:00 31:00 32:00 33:00 34:00

30:00 31:00 32:00 33:00 34:00

30:00 31:00 32:00 33:00 34:00

30:00 31:00 32:00 33:00 34:00

30:00 31:00 32:00 33:00 34:00

30:00 31:00 32:00 33:00 34:00

30:00 31:00 32:00 33:00 34:00

30:00 31:00 32:00 33:00 34:00

30:00 31:00 32:00 33:00 34:00

30:00 31:00 32:00 33:00 34:00

30:00 31:00 32:00 33:00 34:00

30:00 31:00 32:00 33:00 34:00

30:00 31:00 32:00 33:00 34:00

30:00 31:00 32:00 33:00 34:00

30:00 31:00 32:00 33:00 34:00

30:00 31:00 32:00 33:00 34:00

30:00 31:00 32:00 33:00 34:00

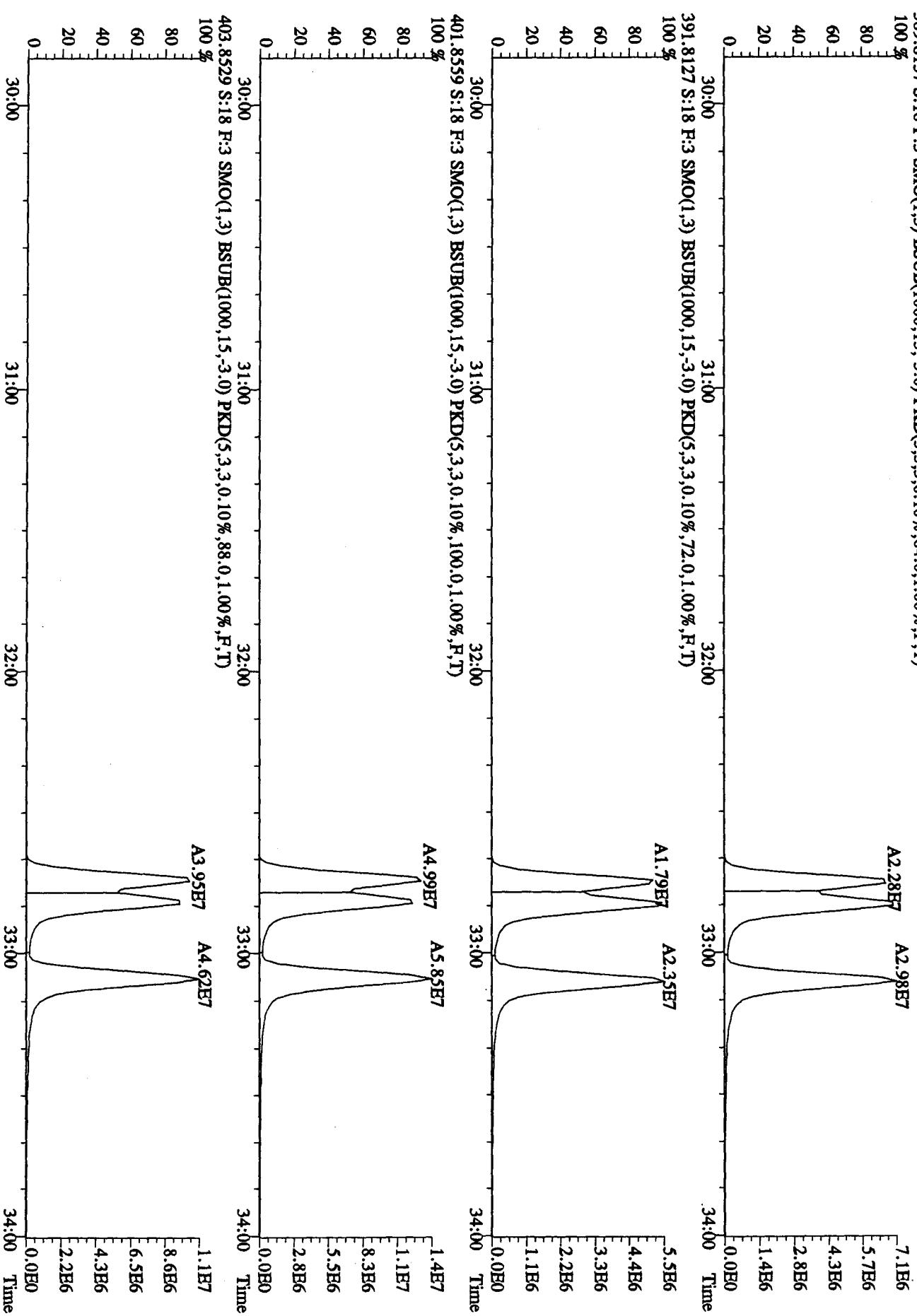
30:00 31:00 32:00 33:00 34:00

30:00 31:00 32:00 33:00 34:00

30:00 31:00 32:00 33:00 34:00

30:00 31:00 32:00 33:00 34:00

File:01MY104D5 #1-316 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#: 8 Text:ST0501A ;CS3 10DXN083 Exp:DIOXINRES8290A
 389.8157 S:18 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64.0,1.00%,F,T)
 100 %

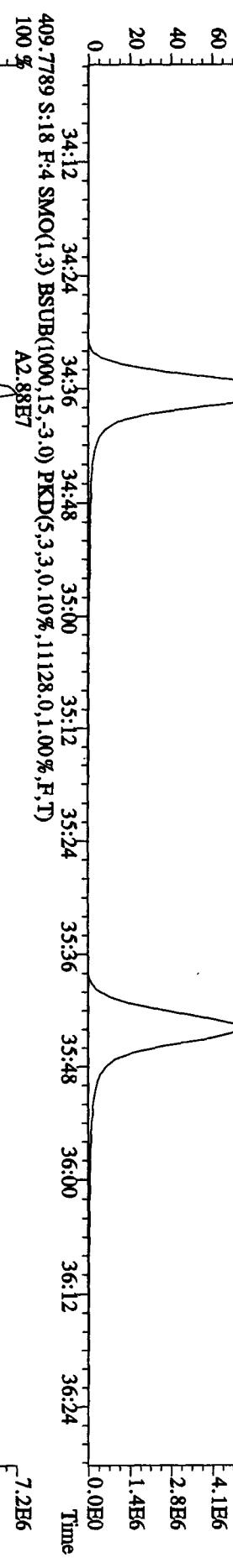


File:01MY104D5 #1-198 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#18 Tex:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A
407.7818 S:18 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9600.0,1.00%,F,T)
100 % A2.73E7

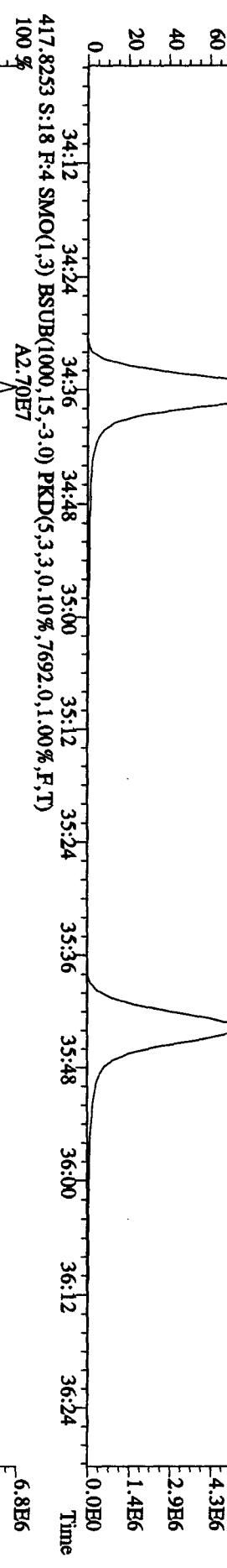
6.9E6
5.5E6
4.1E6
2.8E6
1.4E6
0.0E0

A2.73E7

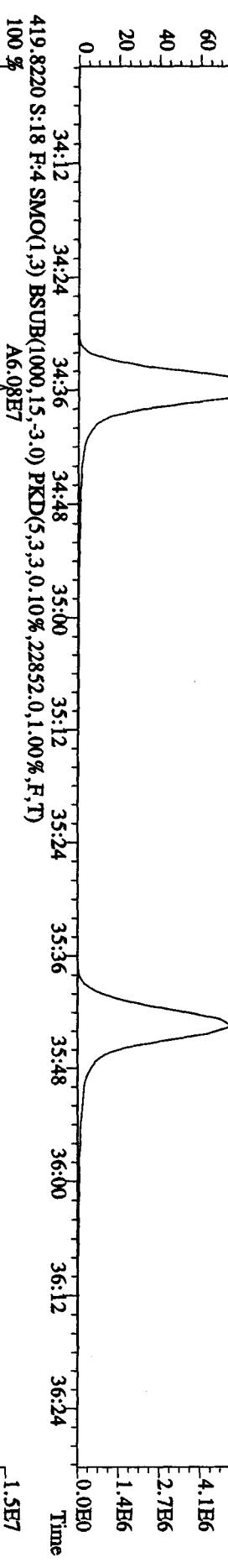
A2.28E7



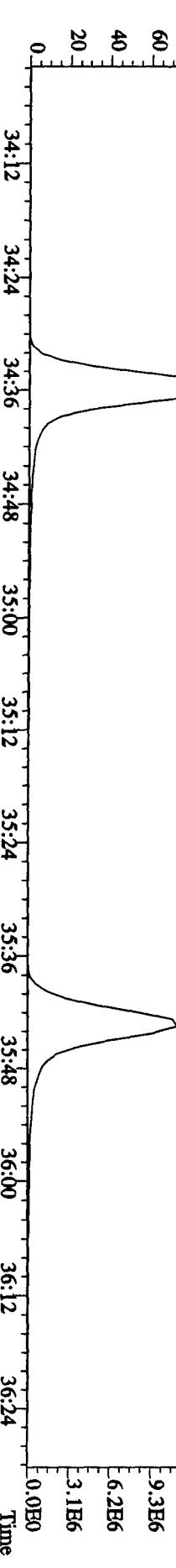
A2.38E7



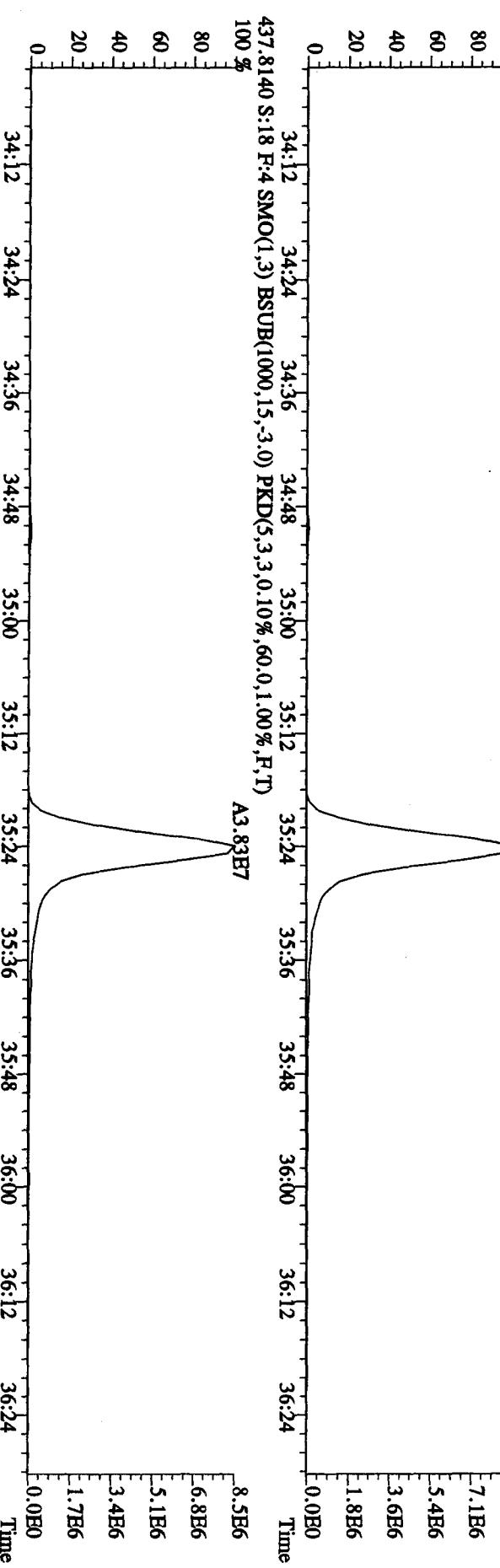
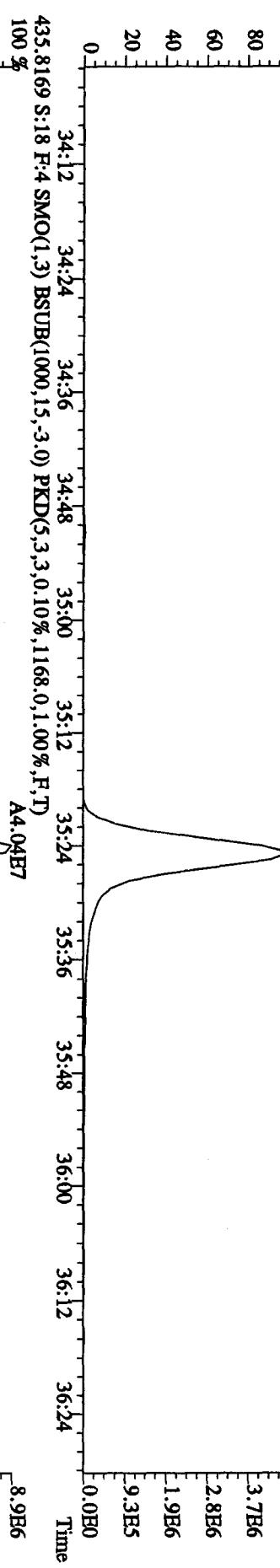
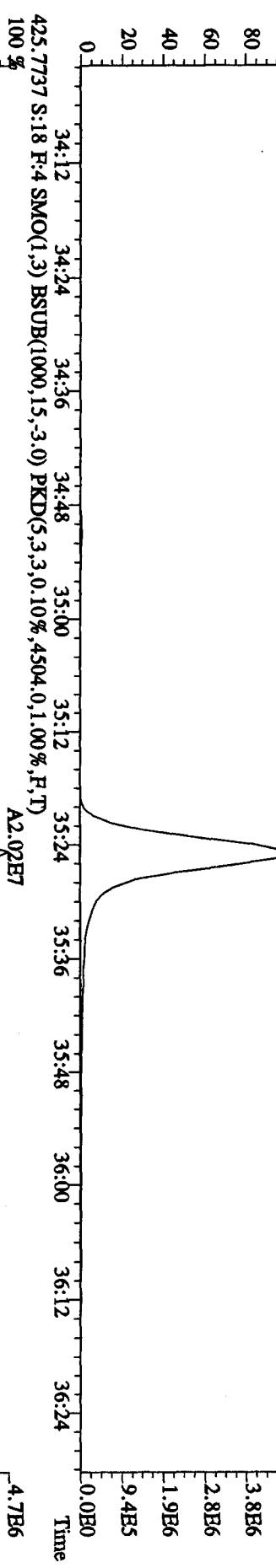
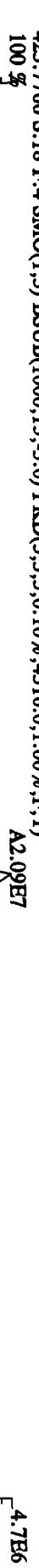
A2.29E7



A5.11E7



File:01MY104D5 #1-198 Acq: 1-MAY-2010 21:17:02 GC HI+ Voltage SIR Autospec-UltimaE
Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRHS8290A
423.7766 S:18 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4316.0,1.00%,F,T)
100 % A2.09E7



File:01MY104D5 #1-190 Acq: 1-MAY-2010 21:17:02 GC El+ Voltage SIR Autospec-UltimaE
Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A
441.7428 S:18 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,424.0,1.00%,R,T)
100 %

A3.9E7

7.9E6

7.1E6

6.4E6

5.6E6

4.8E6

4.0E6

3.2E6

2.4E6

1.6E6

7.9E5

1.6E6

2.4E6

3.2E6

4.0E6

4.8E6

5.6E6

6.4E6

7.1E6

7.9E6

100 %

90

80

70

60

50

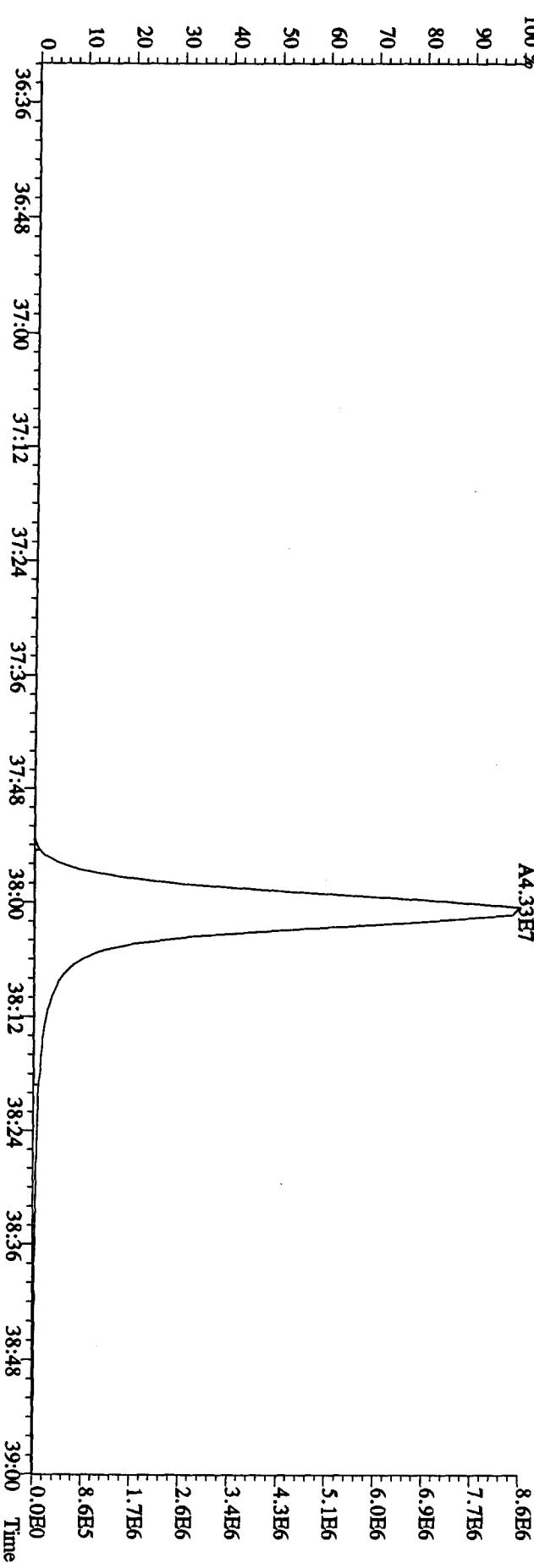
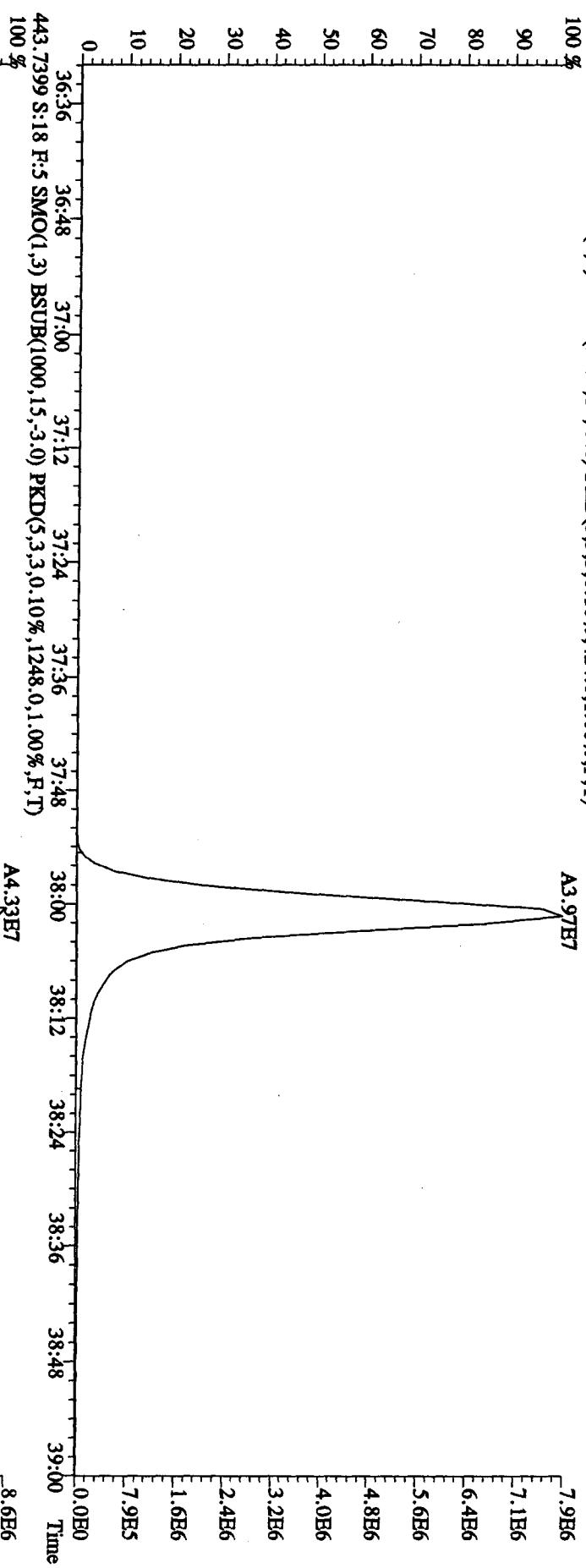
40

30

20

10

0



File:01MY104D5 #1-190 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-UltimaB

Sample#18 Text:ST0501A :CS3 10DXN083

Exp:DIOXINRES8290A

457.7377 S:18 F:5 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0,10%,248.0,1.00%,F,T)

100 % A3.21E7 6.1E6

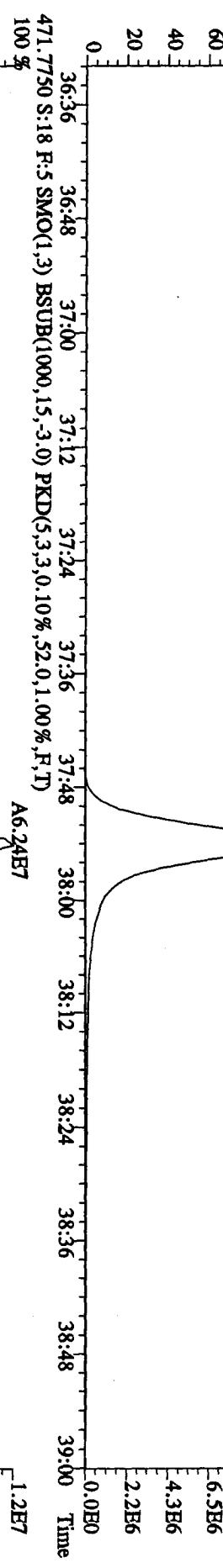
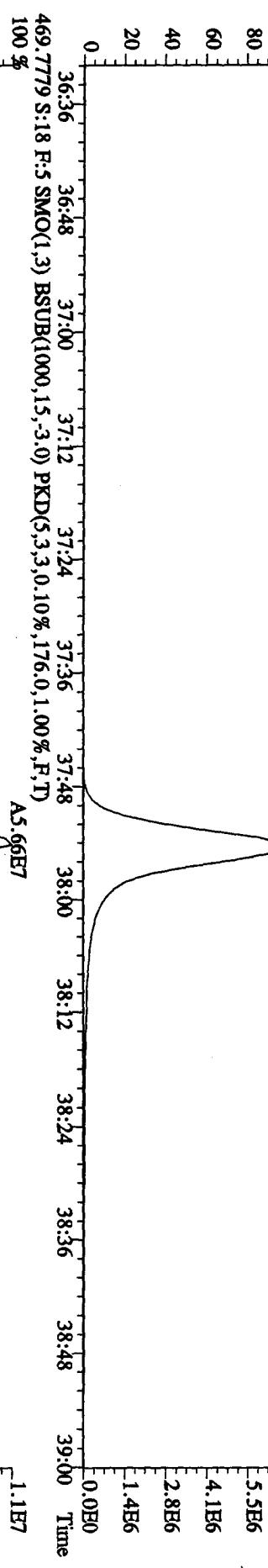
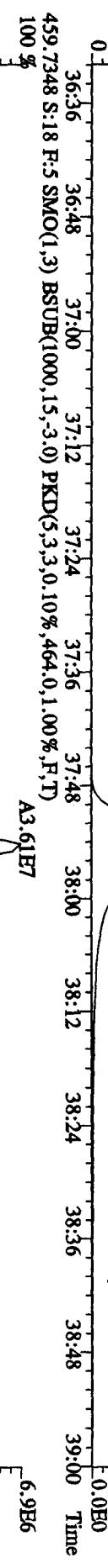
80 % 4.8E6

60 % 3.6E6

40 % 2.4E6

20 % 1.2E6

0 % 0.0E0



469.7779 S:18 F:5 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0,10%,176.0,1.00%,F,T)

100 % A5.66E7 1.1E7

80 % 8.7E6

60 % 6.5E6

40 % 4.3E6

20 % 2.2E6

0 % 0.0E0



471.7750 S:18 F:5 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0,10%,52.0,1.00%,F,T)

100 % A6.24E7 1.2E7

80 % 9.5E6

60 % 7.1E6

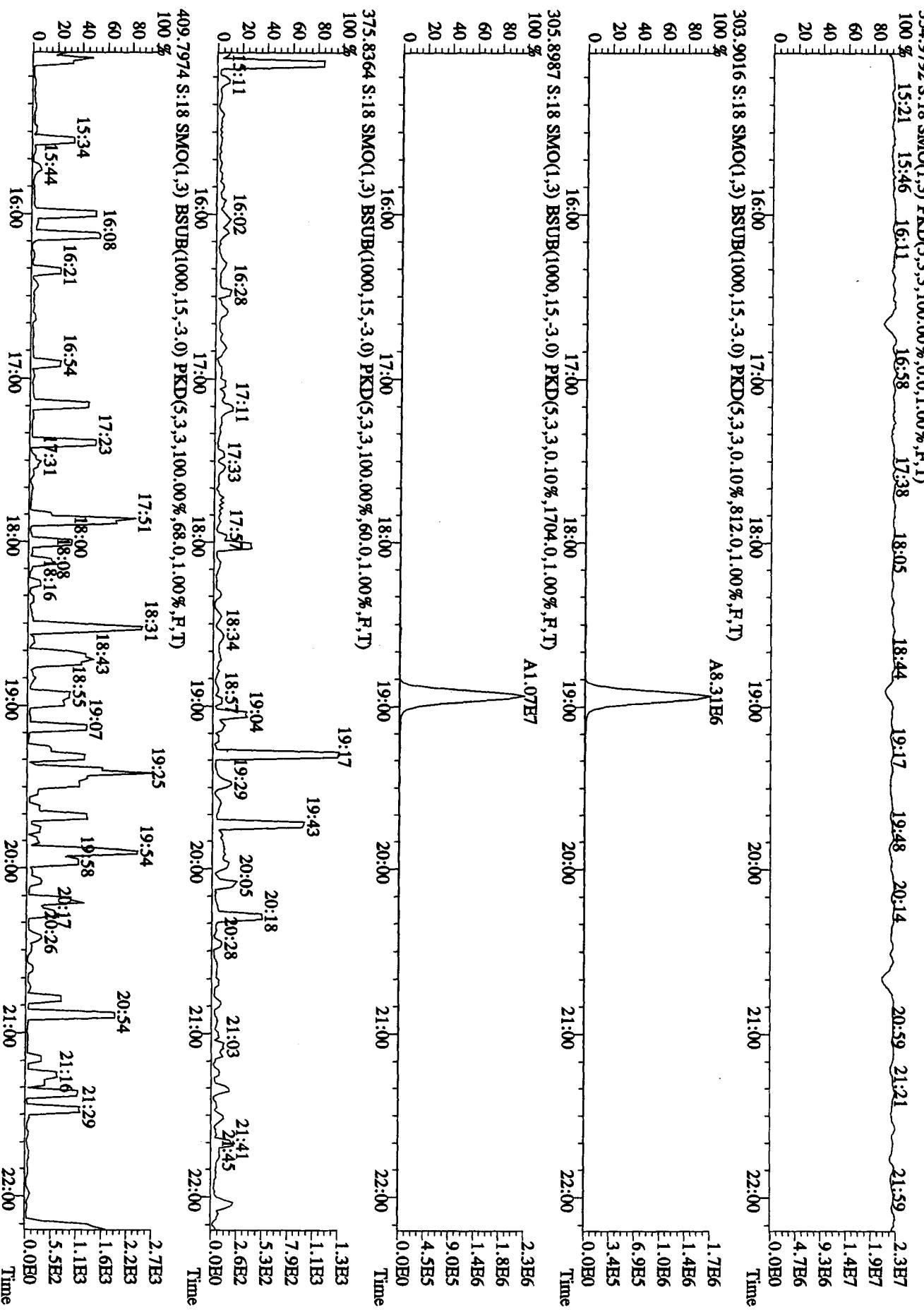
40 % 4.7E6

20 % 2.4E6

0 % 0.0E0

File:01MY104D5 #1_434 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-UltimaE Sampl#8 Ter:STD501A .CS3 10DXN083 Err:DICXINRHS8200A

File:01MY104D5 #1-434 Acq: 1-MAY-2010 21:17:02 GC El + Voltage SIR Aut Sample#18 TestST0501A .SS3 10DXN083 Err:D0XINRBF828044



File:01MY104D5 #1-605 Acq: 1-MAY-2010 21:17:02 GC HI+ Voltage SIR Autospec-UltimaB

Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A

354.9792 S:18 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

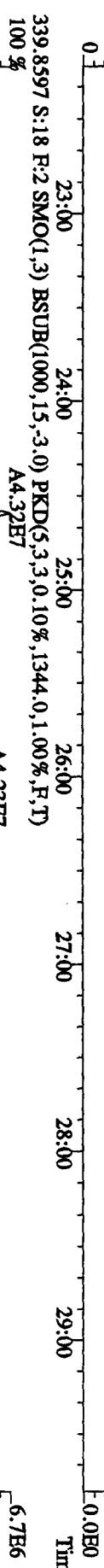
100 % 22:37 23:17 23:56 24:20 24:51 25:18 25:42 26:08 26:33 26:59 27:39 28:17 28:51 29:21 2.4E7

80 1.9E7
60 1.4E7
40 9.6E6
20 4.8E6



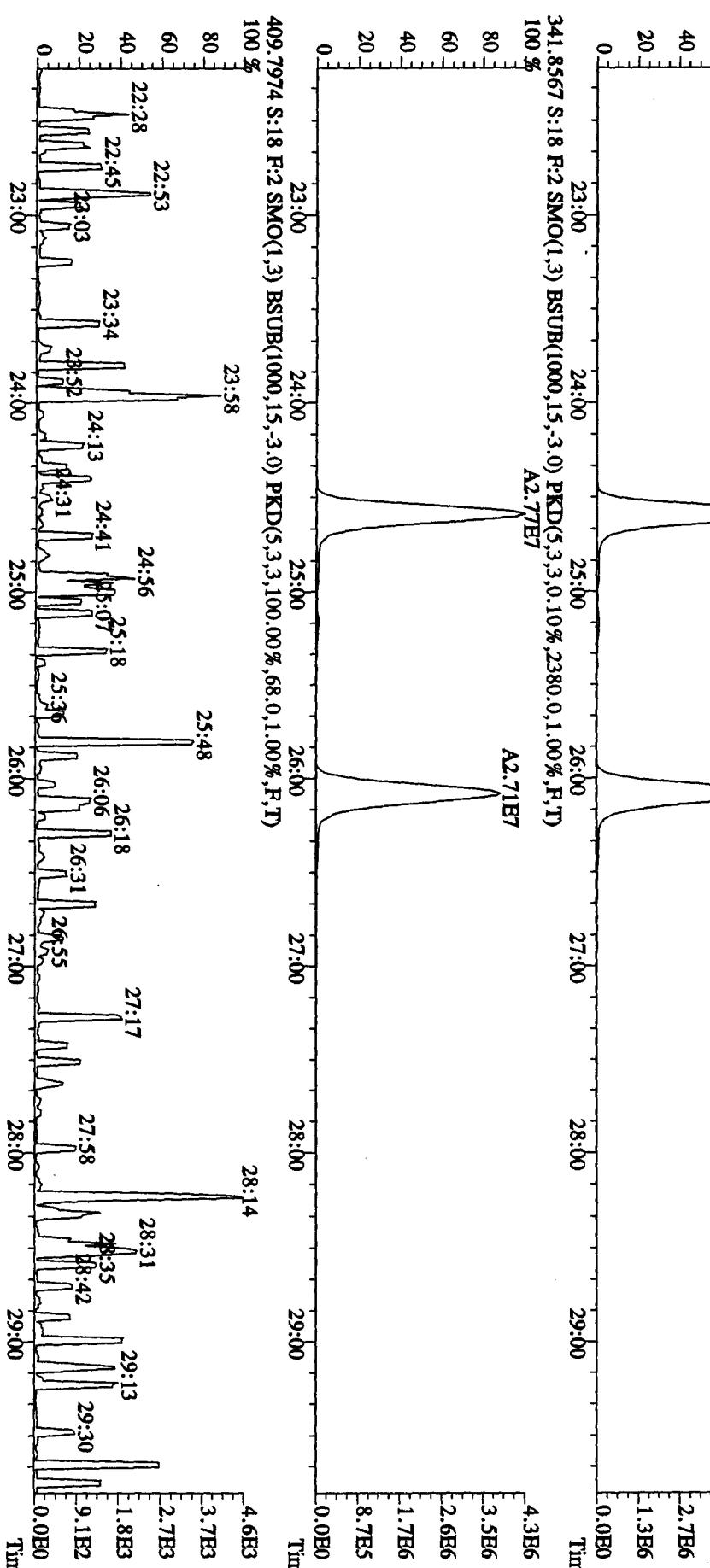
100 % 23:00 24:00 25:00 26:00 27:00 28:00 29:00 0.0E0 Time

80 6.7E6
60 5.4E6
40 4.0E6
20 2.7E6
0 1.3E6

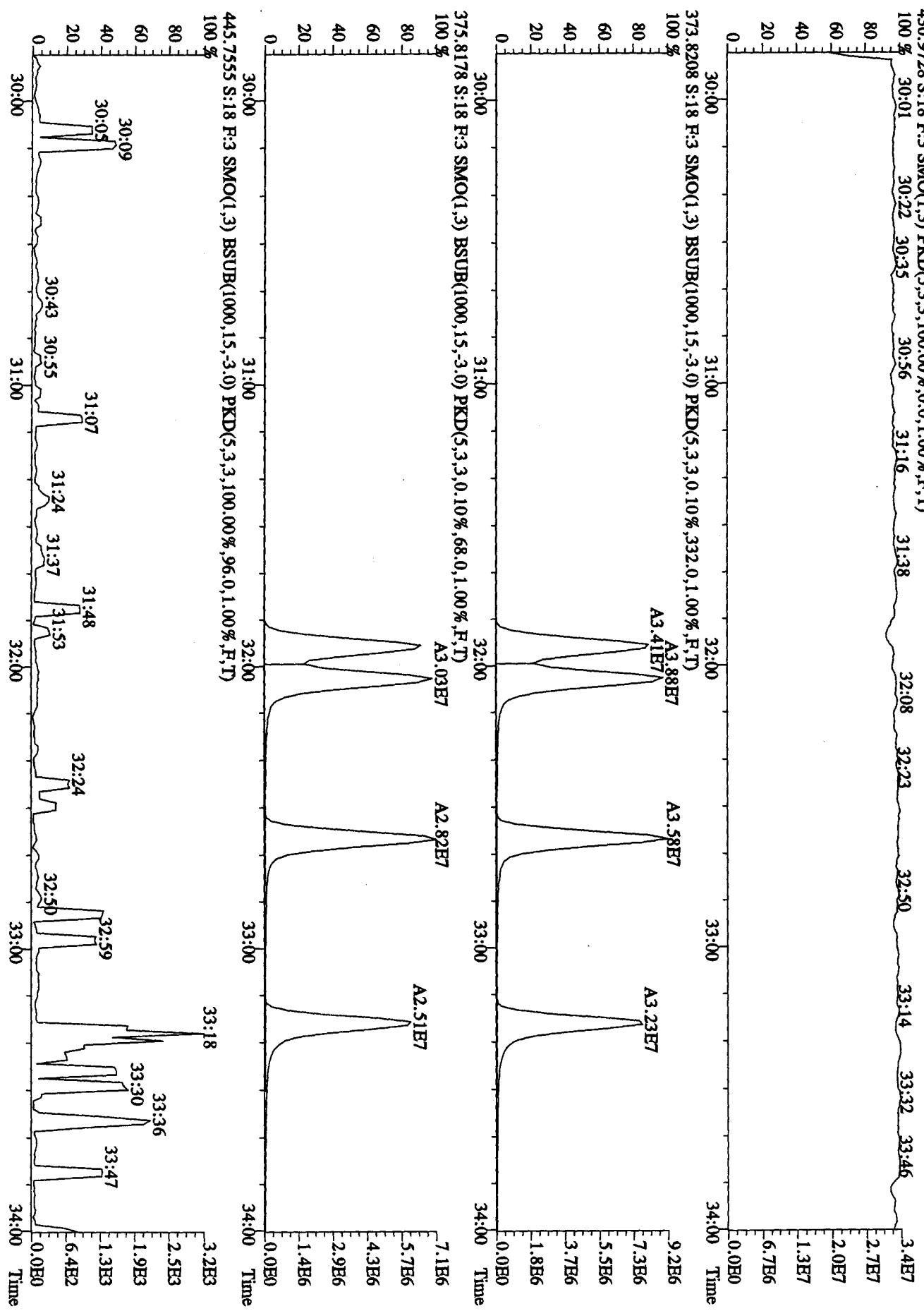


100 % 23:00 24:00 25:00 26:00 27:00 28:00 29:00 0.0E0 Time

80 4.3E6
60 3.5E6
40 2.6E6
20 1.7E6
0 8.7E5



File:01MY104D5 #1-316 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#18 Text:ST0501A :CS3 10DXN083 Exp: DIOXINRES8290A
430.9728 S:18 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
100 % 30:01 30:22 30:35 30:56 31:16 31:38 32:08 32:23 32:50 33:14 33:32 33:46 3.4E7
80
60
40
20
0



File:01MY104D5 #1-198 Acq: 1-MAY-2010 21:17:02 GC HI+ Voltage SIR Autospec-UltimaE
Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A

430.9728 S:18 F:4 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)

100 % 34:07 34:17 34:32 34:40 34:58 35:06 35:17 35:26 35:37 35:44 35:54 36:02 36:20 3.4E7

60 2.7E7

40 2.0E7

20 1.4E7

0 6.8E6

0.0E0 2.7E7

34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 Time

407.7818 S:18 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9600.0,1.00%,F,T)
A2.73E7 6.9E6

80 5.5E6

60 4.1E6

40 2.8E6

20 1.4E6

0 0.0E0 7.2E6

34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 Time

409.7789 S:18 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1128.0,1.00%,F,T)
A2.88E7 7.2E6

80 5.8E6

60 4.3E6

40 2.9E6

20 1.4E6

0 0.0E0 7.8E3

34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 Time

479.7165 S:18 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,100.0,1.00%,F,T)
100 % 34:09 34:17 34:25 34:40 34:48 34:56 35:14 35:19 35:23 35:35 36:14 36:22 7.8E3

80 6.3E3

60 4.7E3

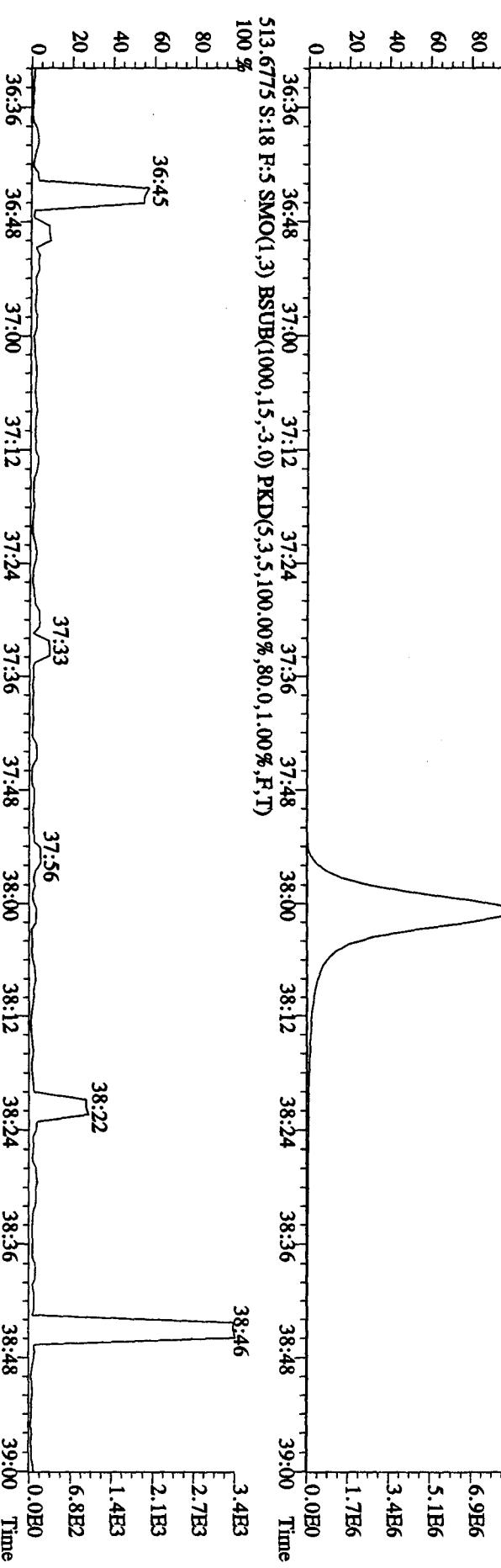
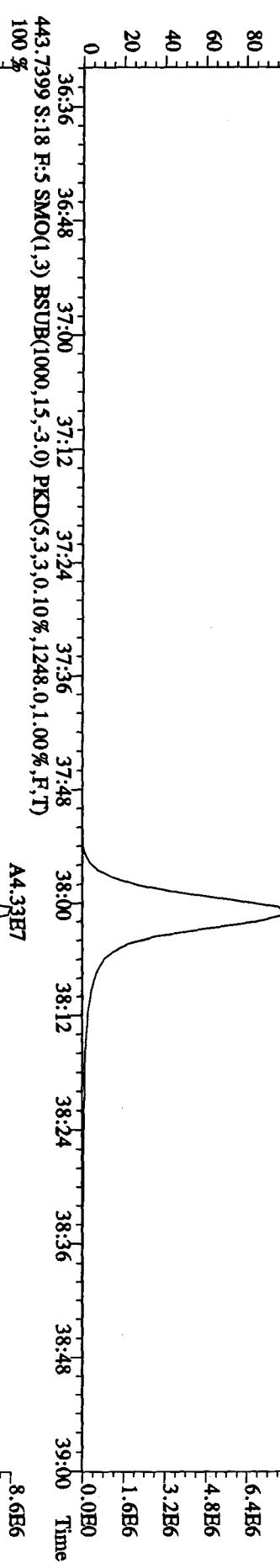
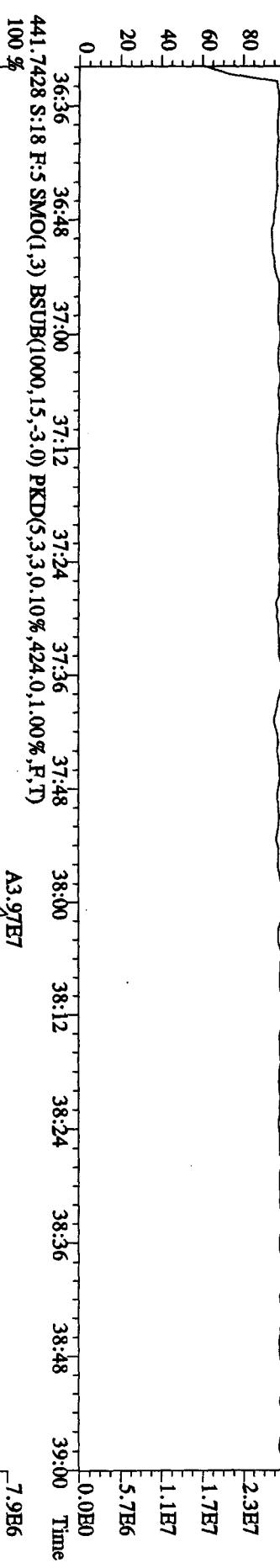
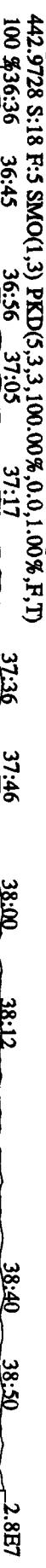
40 3.1E3

20 1.6E3

0 0.0E0 36:24

34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 Time

File:01MY104D5 #1-190 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A
442.9728 S:18 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
100 36:36 36:45 36:56 37:05 37:17 37:36 37:46 38:00 38:12 38:40 38:50 2.8E7



Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

Initial Calibration Checklist
Dioxin Methods

ICAL ID 8290A041210405Method ID 8290A

Date Scanned _____

Column ID DB5Instrument ID 405STD ID's ST0412(B,A,-,D,C)STD Solution 09DXN422, 09DXN423, 10DXN111, 09DXN4
09DXN456GC Program OCDDMultiplier Setting 410Analyzed By M.G.Date Analyzed 4/12/10Prepared By M.G.Date Prepared 4/14/10Reviewed By MATDate Reviewed 4/14/10

Curve summary present?	✓	✓
Hardcopies of chromatograms for CS1-CS5 present?	✓	✓
Copy of log-file present?	✓	✓
Static resolution check present?	✓	✓
Target file RT's correct?	✓	✓
%RSD within method-specified limits?*	✓	✓
Signal-to-noise criteria met?	✓	✓
Isotopic ratios within limits?	✓	✓
High point free of saturation?	✓	✓
Are chromatographic windows correct?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA

COMMENTS:

*Method 8290/TO9/M0023A: %RSD \leq 20% for natives, \leq 30% for labeled compounds; S/N \geq 10

Method 1613B: %RSD \leq 20% natives, \leq 30% labeled compounds; S/N \geq 10

Method 23: %RSD \leq values specified in Table 5, Method 23; S/N \geq 2.5

Run: 12AP104D5 Analyte: 8290A

Cal: 8290A0412104D5

ST0412B :CS-1 09DXN422
 ST0412D :CS-4 09DXN426

ST0412A :CS-2 09DXN423

ST0412C :CS-5 09DXN456
 ST0412 :CS-3 10DXN111

Name	Mean	S.	D.	%RSD	12AP104D5					
					S4 RRF1	S3 RRF2	S2 RRF3	S6 RRF4	S5 RRF5	-
13C-1,2,3,4-TCDD	-	-	-	%	-	-	-	-	-	-
13C-2,3,7,8-TCDD	1.521	0.098	6.47	%	1.54	1.47	1.60	1.38	1.62	
2,3,7,8-TCDF	0.945	0.042	4.44	%	0.88	0.94	0.98	0.95	0.98	
Total TCDD	0.945	0.042	4.44	%	0.88	0.94	0.98	0.95	0.98	
13C-2,3,7,8-TCDD	0.950	0.080	8.47	%	0.94	0.87	0.95	0.91	1.08	
2,3,7,8-TCDD	1.021	0.031	3.03	%	1.00	0.98	1.04	1.04	1.05	
Total TCDD	1.021	0.031	3.03	%	1.00	0.98	1.04	1.04	1.05	
37CL-2,3,7,8-TCDD	2.261	0.218	9.64	%	2.41	2.04	2.16	2.14	2.56	
13C-1,2,3,7,8-PeCDF	1.050	0.149	14.1	%	0.97	0.97	1.01	0.98	1.31	
1,2,3,7,8-PeCDF	1.045	0.049	4.68	%	0.97	1.02	1.09	1.09	1.06	
2,3,4,7,8-PeCDF	0.982	0.045	4.55	%	0.93	0.97	1.03	1.02	0.96	
Total F2 PeCDF	1.013	0.046	4.50	%	0.95	0.99	1.06	1.05	1.01	
Total F1 PeCDF	1.013	0.046	4.50	%	0.95	0.99	1.06	1.05	1.01	
13C-1,2,3,7,8-PeCDD	0.670	0.094	14.0	%	0.61	0.65	0.62	0.64	0.84	
1,2,3,7,8-PeCDD	0.982	0.047	4.75	%	0.94	0.93	1.04	1.01	0.99	
Total PeCDD	0.982	0.047	4.75	%	0.94	0.93	1.04	1.01	0.99	
13C-1,2,3,7,8,9-HxCDD	-	-	-	%	-	-	-	-	-	-
13C-1,2,3,4,7,8-HxCDF	1.025	0.075	7.29	%	1.08	0.98	1.08	0.92	1.06	
1,2,3,4,7,8-HxCDF	1.213	0.061	5.00	%	1.12	1.18	1.25	1.28	1.23	
1,2,3,6,7,8-HxCDF	1.343	0.096	7.13	%	1.20	1.34	1.46	1.38	1.33	
2,3,4,6,7,8-HxCDF	1.222	0.064	5.27	%	1.13	1.19	1.29	1.26	1.23	
1,2,3,7,8,9-HxCDF	1.092	0.072	6.60	%	1.02	1.02	1.15	1.17	1.10	
Total HxCDF	1.218	0.070	5.72	%	1.12	1.18	1.29	1.27	1.22	
113C-1,2,3,6,7,8-HxCDD	0.807	0.060	7.46	%	0.81	0.77	0.86	0.72	0.87	
1,2,3,4,7,8-HxCDD	1.007	0.056	5.54	%	0.93	1.02	1.04	1.07	0.98	

1,2,3,6,7,8-HxCDD	1.114	0.059	5.33 %	1.06	1.06	1.19	1.16	1.11
1,2,3,7,8,9-HxCDD	1.209	0.083	6.88 %	1.12	1.17	1.22	1.34	1.19
Total HxCDD	1.110	0.061	5.46 %	1.04	1.08	1.15	1.19	1.09
1,2,3,4,6,7,8-HpCDF	0.863	0.061	7.10 %	0.87	0.82	0.95	0.79	0.88
1,2,3,4,6,7,8-HpCDF	1.310	0.072	5.52 %	1.20	1.28	1.39	1.36	1.32
1,2,3,4,7,8,9-HpCDF	1.026	0.053	5.19 %	0.95	1.00	1.09	1.06	1.03
Total HpCDF	1.168	0.063	5.36 %	1.08	1.14	1.24	1.21	1.18
1,2,3,4,6,7,8-HpCDD	0.697	0.052	7.39 %	0.71	0.67	0.77	0.64	0.71
1,2,3,4,6,7,8-HpCDD	1.072	0.039	3.60 %	1.03	1.03	1.11	1.11	1.08
Total HpCDD	1.072	0.039	3.60 %	1.03	1.03	1.11	1.11	1.08
1,3C-OCDD	0.531	0.041	7.69 %	0.53	0.49	0.58	0.49	0.57
OCDF	1.445	0.085	5.85 %	1.32	1.39	1.51	1.50	1.50
OCDD	1.166	0.060	5.16 %	1.08	1.14	1.23	1.21	1.17

Run #1 Filename 12AP104D5 S: 4 I: 1
 Acquired: 12-APR-10 10:48:47 Processed: 12-APR-10 13:15:04
 Run: 12AP104D5 Analyte: 8290A Cal: 8290A0412104D5
 Comments:
 Sample text: ST0412B :CS-1 09DXN422

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	150889300	0.82 y	19:40	-	100.00	n
13C-2,3,7,8-TCDF	232739000	0.78 y	19:04	1.5424	100.00	n
2,3,7,8-TCDF	1023349	0.88 y	19:05	0.8794	0.50	n
Total TCDF	-	- n	-	0.8794	0.50	n
13C-2,3,7,8-TCDD	141161700	0.80 y	19:53	0.9355	100.00	n
2,3,7,8-TCDD	703881	0.67 y	19:54	0.9973	0.50	n
Total TCDD	-	- n	-	0.9973	0.50	n
37Cl-2,3,7,8-TCDD	1819544	1.00 y	19:54	2.4118	0.50	n
13C-1,2,3,7,8-PeCDF	146106800	1.52 y	24:49	0.9683	100.00	n
1,2,3,7,8-PeCDF	3546420	1.50 y	24:50	0.9709	2.50	n
2,3,4,7,8-PeCDF	3384670	1.43 y	26:21	0.9266	2.50	n
Total F2 PeCDF	-	- n	-	0.9488	5.00	n
Total F1 PeCDF	-	- n	-	0.9488	5.00	n
13C-1,2,3,7,8-PeCDD	92385600	1.55 y	27:09	0.6123	100.00	n
1,2,3,7,8-PeCDD	2166233	1.61 y	27:12	0.9379	2.50	n
Total PeCDD	-	- n	-	0.9379	2.50	n
13C-1,2,3,7,8,9-HxCDD	103077500	1.29 y	33:11	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	111667600	0.52 y	32:02	1.0833	100.00	n
1,2,3,4,7,8-HxCDF	3133010	1.21 y	32:04	1.1223	2.50	n
1,2,3,6,7,8-HxCDF	3346790	1.13 y	32:10	1.1988	2.50	n
2,3,4,6,7,8-HxCDF	3162220	1.22 y	32:43	1.1327	2.50	n
1,2,3,7,8,9-HxCDF	2848310	1.21 y	33:21	1.0203	2.50	n
Total HxCDF	-	- n	-	1.1185	10.00	n
13C-1,2,3,6,7,8-HxCDD	83861100	1.28 y	32:55	0.8136	100.00	n
1,2,3,4,7,8-HxCDD	1947993	1.33 y	32:51	0.9292	2.50	n
1,2,3,6,7,8-HxCDD	2219360	1.18 y	32:56	1.0586	2.50	n
1,2,3,7,8,9-HxCDD	2352910	1.23 y	33:12	1.1223	2.50	n
Total HxCDD	-	- n	-	1.0367	7.50	n
13C-1,2,3,4,6,7,8-HpCDF	89290500	0.42 y	34:41	0.8662	100.00	n
1,2,3,4,6,7,8-HpCDF	2683070	0.92 y	34:42	1.2020	2.50	n
1,2,3,4,7,8,9-HpCDF	2130830	0.96 y	35:50	0.9546	2.50	n
Total HpCDF	-	- n	-	1.0783	5.00	n
13C-1,2,3,4,6,7,8-HpCDD	72671900	1.06 y	35:30	0.7050	100.00	n
1,2,3,4,6,7,8-HpCDD	1867690	1.03 y	35:31	1.0280	2.50	n
Total HpCDD	-	- n	-	1.0280	2.50	n
13C-OCDD	109193900	0.90 y	38:02	0.5297	200.00	n
OCDF	3611560	0.91 y	38:09	1.3230	5.00	n

OCDD 2945690 0.92 y 38:02 1.0791 5.00 n

Run #2 Filename 12AP104D5 S: 3 I: 1
 Acquired: 12-APR-10 10:04:44 Processed: 12-APR-10 13:15:05
 Run: 12AP104D5 Analyte: 8290A Cal: 8290A0412104D5
 Comments:

Sample text: ST0412A :CS-2 09DXN423

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	161658700	0.83 y	19:41	-	100.00	n
13C-2,3,7,8-TCDF	237756000	0.78 y	19:06	1.4707	100.00	n
2,3,7,8-TCDF	4448700	0.78 y	19:07	0.9356	2.00	n
Total TCDF	-	- n	-	0.9356	2.00	n
13C-2,3,7,8-TCDL	141013400	0.83 y	19:54	0.8723	100.00	n
2,3,7,8-TCDL	2761520	0.74 y	19:55	0.9792	2.00	n
Total TCDL	-	- n	-	0.9792	2.00	n
37Cl-2,3,7,8-TCDD	6579920	1.00 y	19:55	2.0351	2.00	n
13C-1,2,3,7,8-PeCDF	157487700	1.55 y	24:50	0.9742	100.00	n
1,2,3,7,8-PeCDF	16085800	1.52 y	24:52	1.0214	10.00	n
2,3,4,7,8-PeCDF	15225000	1.52 y	26:23	0.9667	10.00	n
Total F2 PeCDF	-	- n	-	0.9941	20.00	n
Total F1 PeCDF	-	- n	-	0.9941	20.00	n
13C-1,2,3,7,8-PeCDD	104378100	1.53 y	27:11	0.6457	100.00	n
1,2,3,7,8-PeCDD	9696460	1.56 y	27:13	0.9290	10.00	n
Total PeCDD	-	- n	-	0.9290	10.00	n
13C-1,2,3,7,8,9-HxCDD	119338900	1.29 y	33:12	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	116840100	0.51 y	32:03	0.9791	100.00	n
1,2,3,4,7,8-HxCDF	13837370	1.16 y	32:04	1.1843	10.00	n
1,2,3,6,7,8-HxCDF	15711510	1.20 y	32:11	1.3447	10.00	n
2,3,4,6,7,8-HxCDF	13850440	1.17 y	32:44	1.1854	10.00	n
1,2,3,7,8,9-HxCDF	11885350	1.19 y	33:23	1.0172	10.00	n
Total HxCDF	-	- n	-	1.1829	40.00	n
13C-1,2,3,6,7,8-HxCDD	92237400	1.32 y	32:57	0.7729	100.00	n
1,2,3,4,7,8-HxCDD	9381490	1.25 y	32:53	1.0171	10.00	n
1,2,3,6,7,8-HxCDD	9738380	1.25 y	32:57	1.0558	10.00	n
1,2,3,7,8,9-HxCDD	10785510	1.28 y	33:12	1.1693	10.00	n
Total HxCDD	-	- n	-	1.0807	30.00	n
13C-1,2,3,4,6,7,8-HpCDF	97759400	0.43 y	34:42	0.8192	100.00	n
1,2,3,4,6,7,8-HpCDF	12506030	0.97 y	34:43	1.2793	10.00	n
1,2,3,4,7,8,9-HpCDF	9737130	0.96 y	35:52	0.9960	10.00	n
Total HpCDF	-	- n	-	1.1376	20.00	n
13C-1,2,3,4,6,7,8-HpCDD	79460100	1.04 y	35:31	0.6658	100.00	n
1,2,3,4,6,7,8-HpCDD	8216600	1.02 y	35:32	1.0341	10.00	n
Total HpCDD	-	- n	-	1.0341	10.00	n
13C-OCDD	117016000	0.90 y	38:02	0.4903	200.00	n
OCDF	16264550	0.91 y	38:09	1.3899	20.00	n
OCDD	13337580	0.89 y	38:03	1.1398	20.00	n

Run #3 Filename 12AP104D5 S: 2 I: 1
 Acquired: 12-APR-10 09:14:17 Processed: 12-APR-10 13:15:06
 Run: 12AP104D5 Analyte: 8290A Cal: 8290A0412104D5
 Comments:
 Sample text: ST0412 :CS-3 10DXN111

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	64371200	0.84 y	19:40	-	100.00	n
13C-2,3,7,8-TCDF	102873500	0.76 y	19:05	1.5981	100.00	n
2,3,7,8-TCDF	10115650	0.82 y	19:06	0.9833	10.00	n
Total TCDF	-	n	-	0.9833	10.00	n
13C-2,3,7,8-TCDD	61271500	0.83 y	19:53	0.9518	100.00	n
2,3,7,8-TCDD	6357860	0.79 y	19:54	1.0377	10.00	n
Total TCDD	-	n	-	1.0377	10.00	n
37Cl-2,3,7,8-TCDD	13876260	1.00 y	19:54	2.1557	10.00	n
13C-1,2,3,7,8-PeCDF	65259400	1.55 y	24:49	1.0138	100.00	n
1,2,3,7,8-PeCDF	35414800	1.47 y	24:50	1.0854	50.00	n
2,3,4,7,8-PeCDF	33672100	1.50 y	26:22	1.0319	50.00	n
Total F2 PeCDF	-	n	-	1.0587	100.00	n
Total F1 PeCDF	-	n	-	1.0587	100.00	n
13C-1,2,3,7,8-PeCDD	39998300	1.51 y	27:10	0.6214	100.00	n
1,2,3,7,8-PeCDD	20706690	1.56 y	27:12	1.0354	50.00	n
Total PeCDD	-	n	-	1.0354	50.00	n
13C-1,2,3,7,8,9-HxCDD	43950100	1.30 y	33:11	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	47581500	0.51 y	32:03	1.0826	100.00	n
1,2,3,4,7,8-HxCDF	29775400	1.17 y	32:04	1.2516	50.00	n
1,2,3,6,7,8-HxCDF	34813100	1.18 y	32:11	1.4633	50.00	n
2,3,4,6,7,8-HxCDF	30804200	1.18 y	32:43	1.2948	50.00	n
1,2,3,7,8,9-HxCDF	27436400	1.20 y	33:22	1.1532	50.00	n
Total HxCDF	-	n	-	1.2907	200.00	n
13C-1,2,3,6,7,8-HxCDD	37776400	1.31 y	32:56	0.8595	100.00	n
1,2,3,4,7,8-HxCDD	19591860	1.40 y	32:52	1.0373	50.00	n
1,2,3,6,7,8-HxCDD	22495200	1.13 y	32:57	1.1910	50.00	n
1,2,3,7,8,9-HxCDD	23103700	1.25 y	33:12	1.2232	50.00	n
Total HxCDD	-	n	-	1.1505	150.00	n
13C-1,2,3,4,6,7,8-HpCDF	41837400	0.43 y	34:42	0.9519	100.00	n
1,2,3,4,6,7,8-HpCDF	29031500	0.97 y	34:42	1.3878	50.00	n
1,2,3,4,7,8,9-HpCDF	22825800	0.97 y	35:50	1.0912	50.00	n
Total HpCDF	-	n	-	1.2395	100.00	n
13C-1,2,3,4,6,7,8-HpCDD	33979600	1.08 y	35:31	0.7731	100.00	n
1,2,3,4,6,7,8-HpCDD	18775170	1.01 y	35:31	1.1051	50.00	n
Total HpCDD	-	n	-	1.1051	50.00	n
13C-OCDD	50907600	0.91 y	38:02	0.5792	200.00	n
OCDF	38455800	0.91 y	38:09	1.5108	100.00	n
OCDD	31406500	0.90 y	38:02	1.2339	100.00	n

Run #4 Filename 12AP104D5 S: 6 I: 1
 Acquired: 12-APR-10 12:16:51 Processed: 12-APR-10 13:15:06
 Run: 12AP104D5 Analyte: 8290A Cal: 8290A0412104D5
 Comments:
 Sample text: ST0412D :CS-4 09DXN426

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	155249200	0.82 y	19:40	-	100.00	n
13C-2,3,7,8-TCDF	213728200	0.78 y	19:04	1.3767	100.00	n
2,3,7,8-TCDF	81152300	0.80 y	19:05	0.9492	40.00	n
Total TCDF	-	- n	-	0.9492	40.00	n
13C-2,3,7,8-TCDD	140634600	0.81 y	19:53	0.9059	100.00	n
2,3,7,8-TCDD	58567300	0.76 y	19:54	1.0411	40.00	n
Total TCDD	-	- n	-	1.0411	40.00	n
37Cl-2,3,7,8-TCDD	132968000	1.00 y	19:54	2.1412	40.00	n
13C-1,2,3,7,8-PeCDF	152320900	1.55 y	24:49	0.9811	100.00	n
1,2,3,7,8-PeCDF	330717000	1.52 y	24:50	1.0856	200.00	n
2,3,4,7,8-PeCDF	311957000	1.53 y	26:21	1.0240	200.00	n
Total F2 PeCDF	-	- n	-	1.0548	400.00	n
Total F1 PeCDF	-	- n	-	1.0548	400.00	n
13C-1,2,3,7,8-PeCDD	98815100	1.51 y	27:10	0.6365	100.00	n
1,2,3,7,8-PeCDD	200073100	1.56 y	27:12	1.0124	200.00	n
Total PeCDD	-	- n	-	1.0124	200.00	n
13C-1,2,3,7,8,9-HxCDD	122882600	1.29 y	33:11	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	112493800	0.51 y	32:02	0.9155	100.00	n
1,2,3,4,7,8-HxCDF	286893000	1.17 y	32:03	1.2752	200.00	n
1,2,3,6,7,8-HxCDF	309941000	1.20 y	32:10	1.3776	200.00	n
2,3,4,6,7,8-HxCDF	284576000	1.18 y	32:44	1.2649	200.00	n
1,2,3,7,8,9-HxCDF	263425000	1.19 y	33:22	1.1708	200.00	n
Total HxCDF	-	- n	-	1.2721	800.00	n
13C-1,2,3,6,7,8-HxCDD	88870500	1.27 y	32:55	0.7232	100.00	n
1,2,3,4,7,8-HxCDD	190818600	1.23 y	32:51	1.0736	200.00	n
1,2,3,6,7,8-HxCDD	205324800	1.26 y	32:56	1.1552	200.00	n
1,2,3,7,8,9-HxCDD	238684000	1.24 y	33:12	1.3429	200.00	n
Total HxCDD	-	- n	-	1.1905	600.00	n
13C-1,2,3,4,6,7,8-HpCDF	97521600	0.43 y	34:41	0.7936	100.00	n
1,2,3,4,6,7,8-HpCDF	264362000	0.96 y	34:42	1.3554	200.00	n
1,2,3,4,7,8,9-HpCDF	206496000	0.97 y	35:50	1.0587	200.00	n
Total HpCDF	-	- n	-	1.2071	400.00	n
13C-1,2,3,4,6,7,8-HpCDD	78184500	1.04 y	35:30	0.6363	100.00	n
1,2,3,4,6,7,8-HpCDD	173361700	1.02 y	35:31	1.1087	200.00	n
Total HpCDD	-	- n	-	1.1087	200.00	n
13C-OCDD	120964400	0.91 y	38:01	0.4922	200.00	n
OCDF	363722000	0.91 y	38:08	1.5034	400.00	n
OCDD	291736000	0.90 y	38:02	1.2059	400.00	n

Run #5 Filename 12AP104D5 S: 5 I: 1
 Acquired: 12-APR-10 11:32:49 Processed: 12-APR-10 13:15:07
 Run: 12AP104D5 Analyte: 8290A Cal: 8290A0412104D5
 Comments:
 Sample text: ST0412C :CS-5 09DXN456

Name	Resp	RA	RT	RRF	Mod?
13C-1,2,3,4-TCDD	133027400	0.81	y 19:40	-	100.00 n
13C-2,3,7,8-TCDF	214932900	0.77	y 19:04	1.6157	100.00 n
2,3,7,8-TCDF	420869000	0.81	y 19:05	0.9791	200.00 n
Total TCDF	-	-	n -	0.9791	200.00 n
13C-2,3,7,8-TCDD	144056100	0.81	y 19:52	1.0829	100.00 n
2,3,7,8-TCDD	302482000	0.77	y 19:54	1.0499	200.00 n
Total TCDD	-	-	n -	1.0499	200.00 n
37Cl-2,3,7,8-TCDD	681830000	1.00	y 19:54	2.5627	200.00 n
13C-1,2,3,7,8-PeCDF	174822600	1.57	y 24:49	1.3142	100.00 n
1,2,3,7,8-PeCDF	1854040000	1.52	y 24:50	1.0605	1000.00 n
2,3,4,7,8-PeCDF	1680778000	1.50	y 26:21	0.9614	1000.00 n
Total F2 PeCDF	-	-	n -	1.0110	2000.00 n
Total F1 PeCDF	-	-	n -	1.0110	2000.00 n
13C-1,2,3,7,8-PeCDD	111282000	1.52	y 27:09	0.8365	100.00 n
1,2,3,7,8-PeCDD	1107251000	1.56	y 27:12	0.9950	1000.00 n
Total PeCDD	-	-	n -	0.9950	1000.00 n
13C-1,2,3,7,8,9-HxCDD	124536600	1.30	y 33:11	-	100.00 n
13C-1,2,3,4,7,8-HxCDF	132485800	0.52	y 32:03	1.0638	100.00 n
1,2,3,4,7,8-HxCDF	1629345000	1.17	y 32:04	1.2298	1000.00 n
1,2,3,6,7,8-HxCDF	1761404000	1.19	y 32:10	1.3295	1000.00 n
2,3,4,6,7,8-HxCDF	1634313000	1.18	y 32:43	1.2336	1000.00 n
1,2,3,7,8,9-HxCDF	1458311000	1.19	y 33:21	1.1007	1000.00 n
Total HxCDF	-	-	n -	1.2234	4000.00 n
13C-1,2,3,6,7,8-HxCDD	107863400	1.32	y 32:55	0.8661	100.00 n
1,2,3,4,7,8-HxCDD	1053487000	1.22	y 32:51	0.9767	1000.00 n
1,2,3,6,7,8-HxCDD	1196229000	1.25	y 32:56	1.1090	1000.00 n
1,2,3,7,8,9-HxCDD	1280853000	1.24	y 33:12	1.1875	1000.00 n
Total HxCDD	-	-	n -	1.0911	3000.00 n
13C-1,2,3,4,6,7,8-HpCDF	109839300	0.44	y 34:41	0.8820	100.00 n
1,2,3,4,6,7,8-HpCDF	1454217000	0.96	y 34:42	1.3239	1000.00 n
1,2,3,4,7,8,9-HpCDF	1128812000	0.96	y 35:50	1.0277	1000.00 n
Total HpCDF	-	-	n -	1.1758	2000.00 n
13C-1,2,3,4,6,7,8-HpCDD	88075100	1.03	y 35:30	0.7072	100.00 n
1,2,3,4,6,7,8-HpCDD	954247000	1.02	y 35:31	1.0834	1000.00 n
Total HpCDD	-	-	n -	1.0834	1000.00 n
13C-OCDD	140888400	0.91	y 38:02	0.5657	200.00 n
OCDF	2112770000	0.91	y 38:09	1.4996	2000.00 n
OCDD	1652111000	0.90	y 38:03	1.1726	2000.00 n

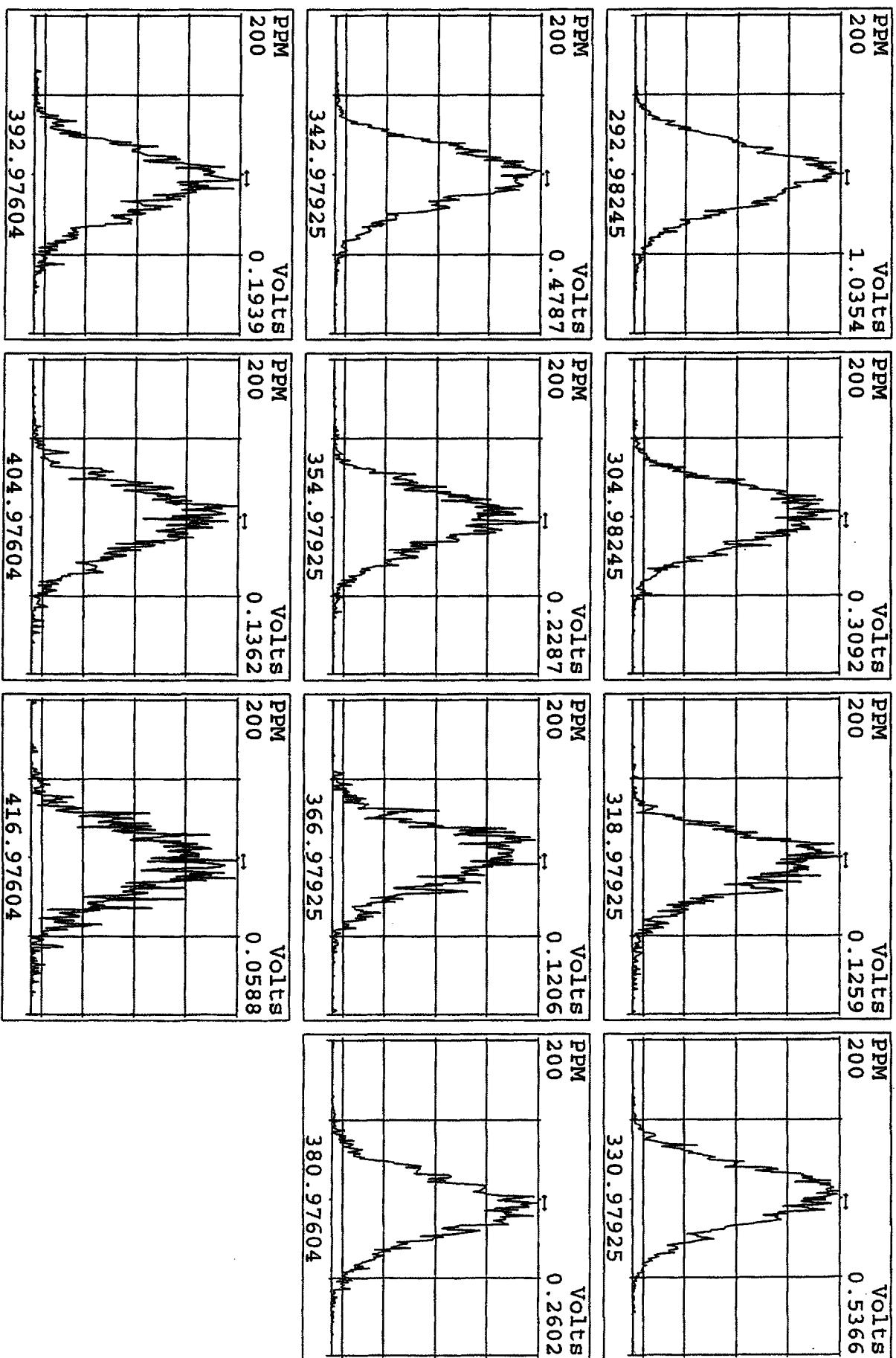
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
12AP104D5	1	CP0412	DB-5 CPSM 3732-04				1.00000	
12AP104D5	2	ST0412	CS-3 10DXN111				1.00000	
12AP104D5	3	ST0412A	CS-2 09DXN423				1.00000	
12AP104D5	4	ST0412B	CS-1 09DXN422				1.00000	
12AP104D5	5	ST0412C	CS-5 09DXN456				1.00000	
12AP104D5	6	ST0412D	CS-4 09DXN426				1.00000	
12AP104D5	7	ST0412E	2nd Source 09DXN449				1.00000	
12AP104D5	8	ST0412F	CS-3 10DXN111				1.00000	
12AP104D5	9	CP0412A	DB-5 CPSM 3732-04				1.00000	
12AP104D5	10	SB0412	Solvent Blank C-14				1.00000	
12AP104D5	11	LXH9E-1-AA	G0D050000-198B	20	8290A/WATER	V-1	1.00000	L
12AP104D5	12	LXH9E-1-AC	G0D050000-198C	20	8290A/WATER		1.00000	L
12AP104D5	13	LXFLQ-1-AA	C0D010564-13	20	8290A/WATER		1.04090	L
12AP104D5	14	LXMQP-1-AC	G0D070000-424C	20	8290A/SOLID		10.00000	g
12AP104D5	15	LXMQP-1-AA	G0D070000-424B	20	8290A/SOLID		10.00000	g
12AP104D5	16	LXFKR-1-AA	C0D010564-1	20	8290A/SOLID		10.96000	g
12AP104D5	17	LXFKX-1-AA	C0D010564-2	20	8290A/SOLID		10.00000	g
12AP104D5	18	LXFK2-1-AA	C0D010564-3	20	8290A/SOLID		10.45000	g
12AP104D5	19	LXFK7-1-AA	C0D010564-4	20	8290A/SOLID		10.83000	g
12AP104D5	20	LXFLA-1-AA	C0D010564-5	20	8290A/SOLID		10.37000	g
12AP104D5	21	LXFLC-1-AA	C0D010564-6	20	8290A/SOLID		10.75000	g
12AP104D5	22	LXFLD-1-AA	C0D010564-7	20	8290A/SOLID		10.36000	g
12AP104D5	23	LXFLD-1-AD	C0D010564-7S	20	8290A/SOLID		10.12000	g
12AP104D5	24	LXFLD-1-AE	C0D010564-7D	20	8290A/SOLID		10.69000	g
12AP104D5	25	SB0412A	Solvent Blank C-14				1.00000	
12AP104D5	26	ST0412G	CS-3 10DXN111				1.00000	
12AP104D5	27	CP0412B	DB-5 CPSM 3732-04				1.00000	
12AP104D5	28	SB0412B	Solvent Blank C-14				1.00000	
12AP104D5	29	LXFLE-1-AA	C0D010564-8	20	8290A/SOLID	V-1	10.54000	g
12AP104D5	30	LXFLF-1-AA	C0D010564-9	20	8290A/SOLID		10.12000	g
12AP104D5	31	LXFLG-1-AA	C0D010564-10	20	8290A/SOLID		10.98000	g
12AP104D5	32	LXFLK-1-AA	C0D010564-11	20	8290A/SOLID		10.17000	g
12AP104D5	33	LXFLM-1-AA	C0D010564-12	20	8290A/SOLID		10.94000	g
12AP104D5	34	LXFK2-1-AA	C0D010564-3 (20x)	20	8290A/SOLID		10.45000	g
12AP104D5	35	LXFLF-1-AA	C0D010564-9 RI	20	8290A/SOLID		10.12000	g
12AP104D5	36	LXFLG-1-AA	C0D010564-10 (20x)	20	8290A/SOLID		10.98000	g
12AP104D5	37	LXFLC-1-AA	C0D010564-6 (50x)	20	8290A/SOLID		10.75000	g
12AP104D5	38	LXFLK-1-AA	C0D010564-11 (50x)	20	8290A/SOLID		10.17000	g
12AP104D5	39	LXFLE-1-AA	C0D010564-8 (100x)	20	8290A/SOLID		10.54000	g
12AP104D5	40	LXFLD-1-AA	C0D010564-7 (100x)	20	8290A/SOLID		10.36000	g
12AP104D5	41	LXFLM-1-AA	C0D010564-12 (100x)	20	8290A/SOLID		10.94000	g
12AP104D5	42	LXFLE-1-AA	C0D010564-8 (100x) RI	20	8290A/SOLID		10.54000	g
12AP104D5	43	SB0412C	Solvent Blank C-14				1.00000	
12AP104D5	44	SB0412D	Solvent Blank C-14				1.00000	
12AP104D5	45	ST0412H	CS-3 10DXN111				1.00000	
12AP104D5	46	CP0412C	DB-5 CPSM 3732-04				1.00000	
12AP104D5	47	SB0412E	Solvent Blank C-14				1.00000	
12AP104D5	48	LXFK2-1-AA	C0D010564-3 (20x) RI	20	8290A/SOLID	V-1	10.45000	g
12AP104D5	49	LXFLG-1-AA	C0D010564-10 (20x) RI	20	8290A/SOLID		10.98000	g
12AP104D5	50	LXFLC-1-AA	C0D010564-6 (50x) RI	20	8290A/SOLID		10.75000	g
12AP104D5	51	LXFLK-1-AA	C0D010564-11 (50x) RI	20	8290A/SOLID		10.17000	g
12AP104D5	52	SB0412F	Solvent Blank C-14				1.00000	
12AP104D5	53	ST0412I	CS-3 10DXN111				1.00000	

12AP104D5	54	1.00000
12AP104D5	55	1.00000
12AP104D5	56	1.00000
12AP104D5	57	1.00000

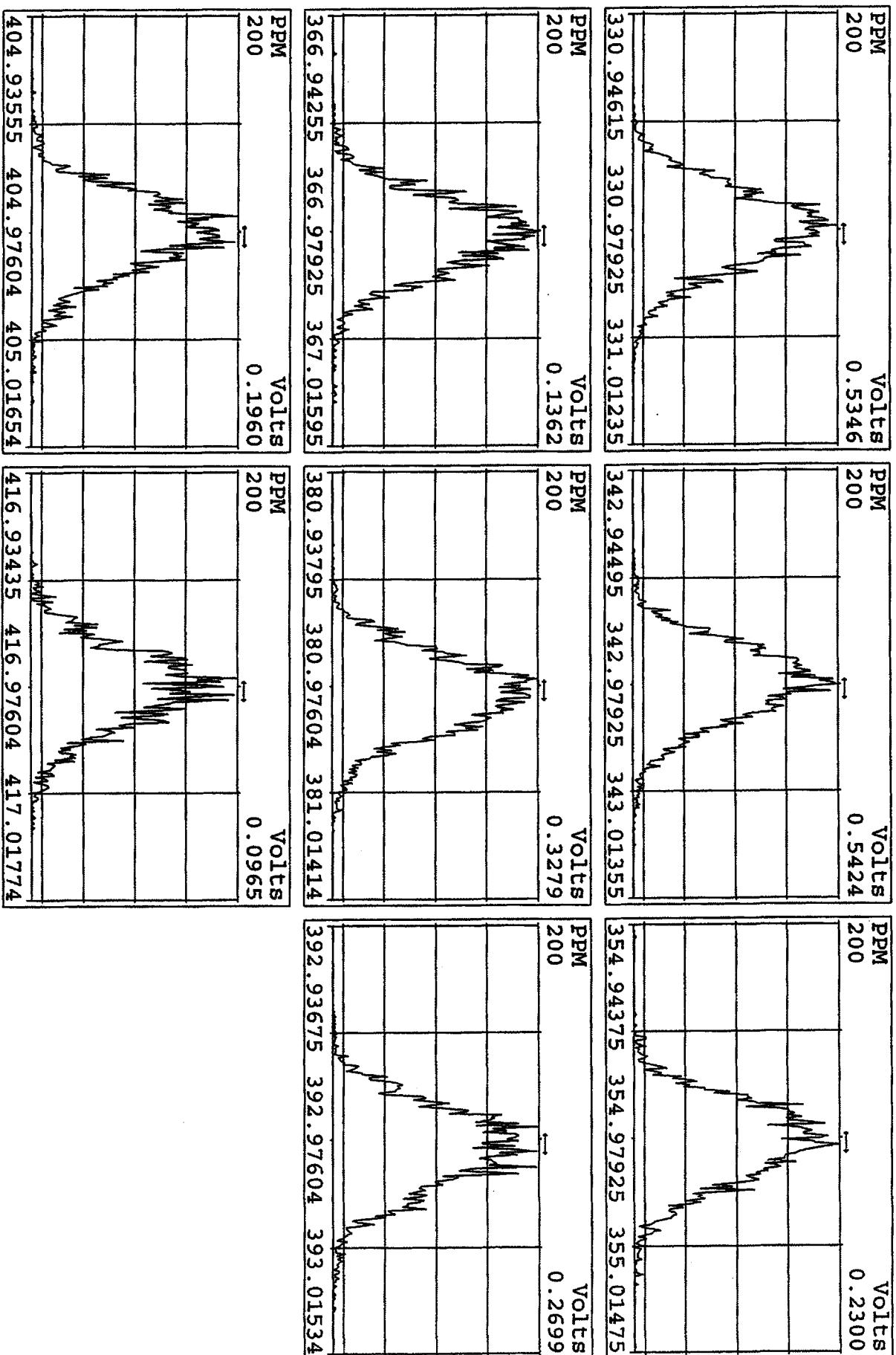
MG 04/12/10

✓ A² 4/14/10

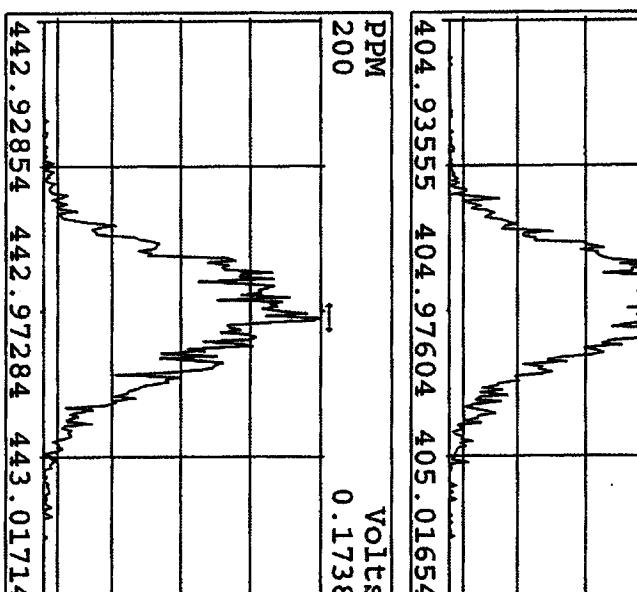
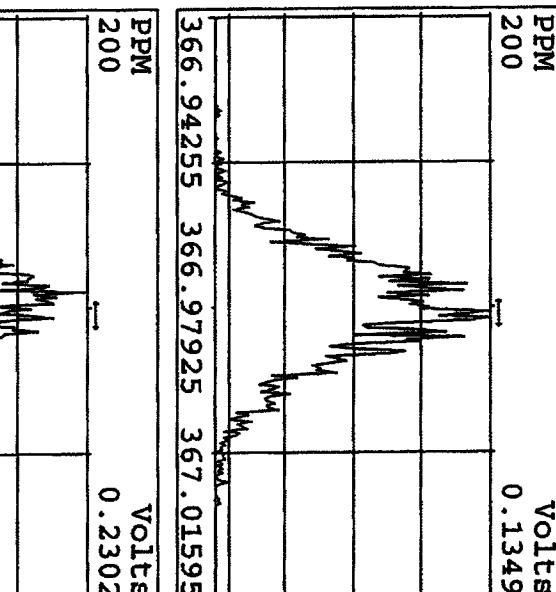
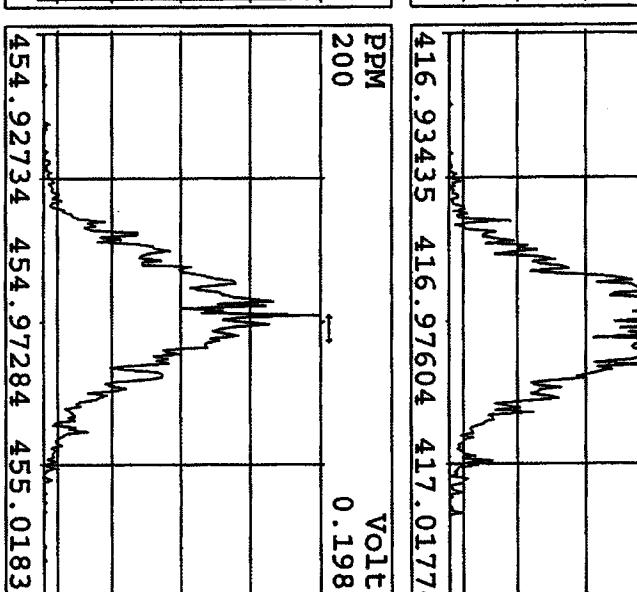
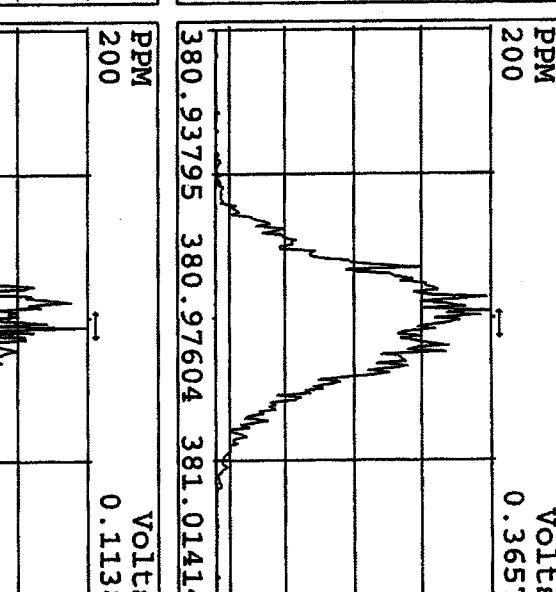
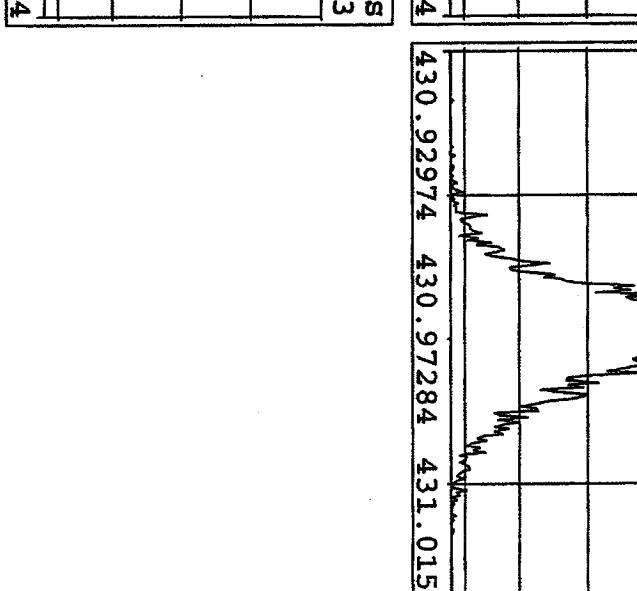
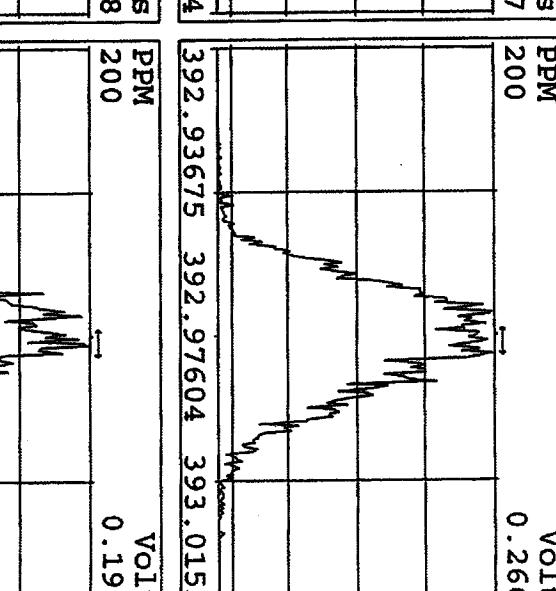
Peak Locate Examination:12-APR-2010:08:26 File:12AP104D5
 Experiment:DIOXINRES8290A Function:1 Reference:PFK



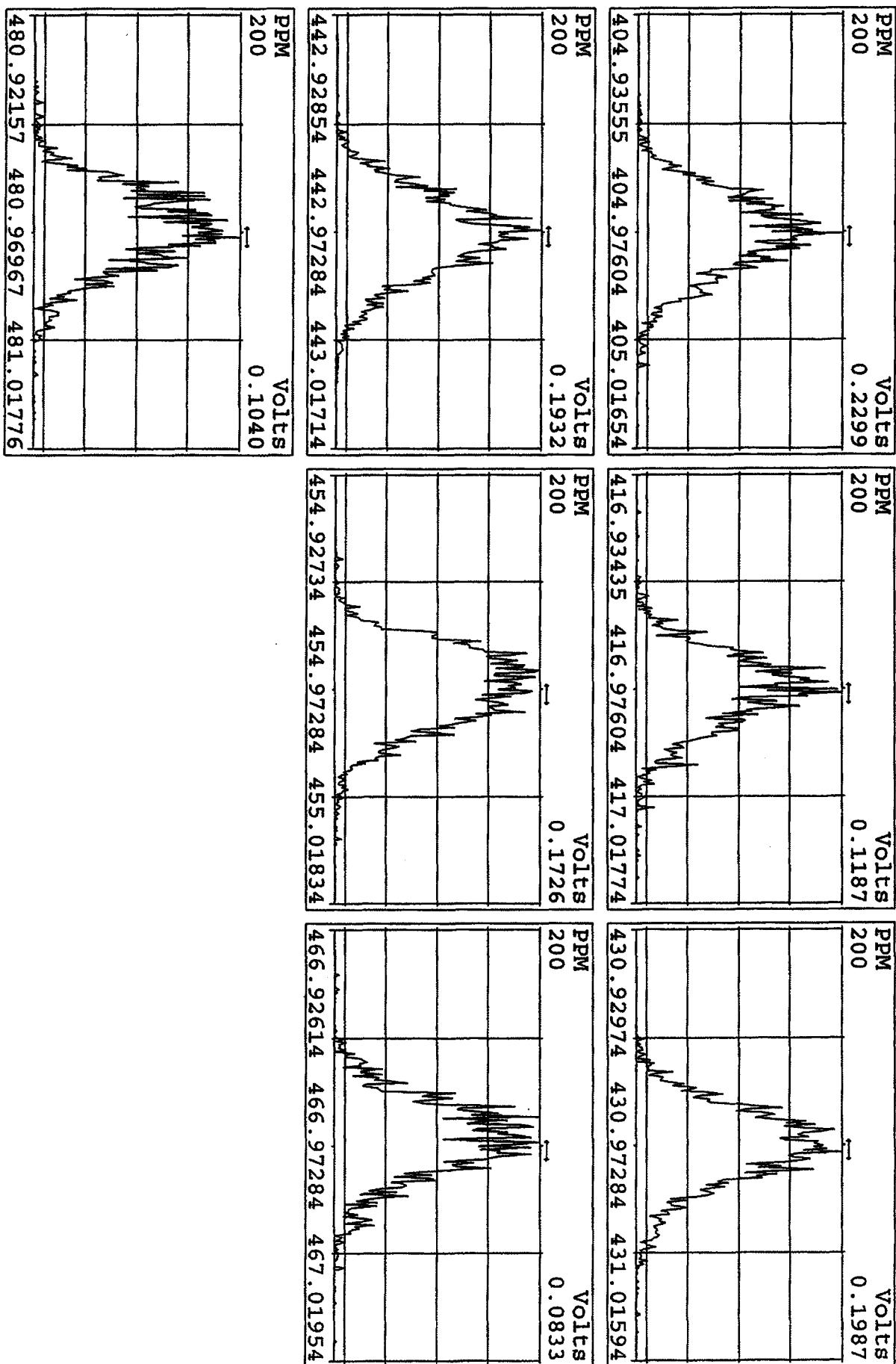
Peak Locate Examination:12-APR-2010:08:26 File:12AP104DS
 Experiment:DIOXINRES8290A Function:2 Reference:PFK



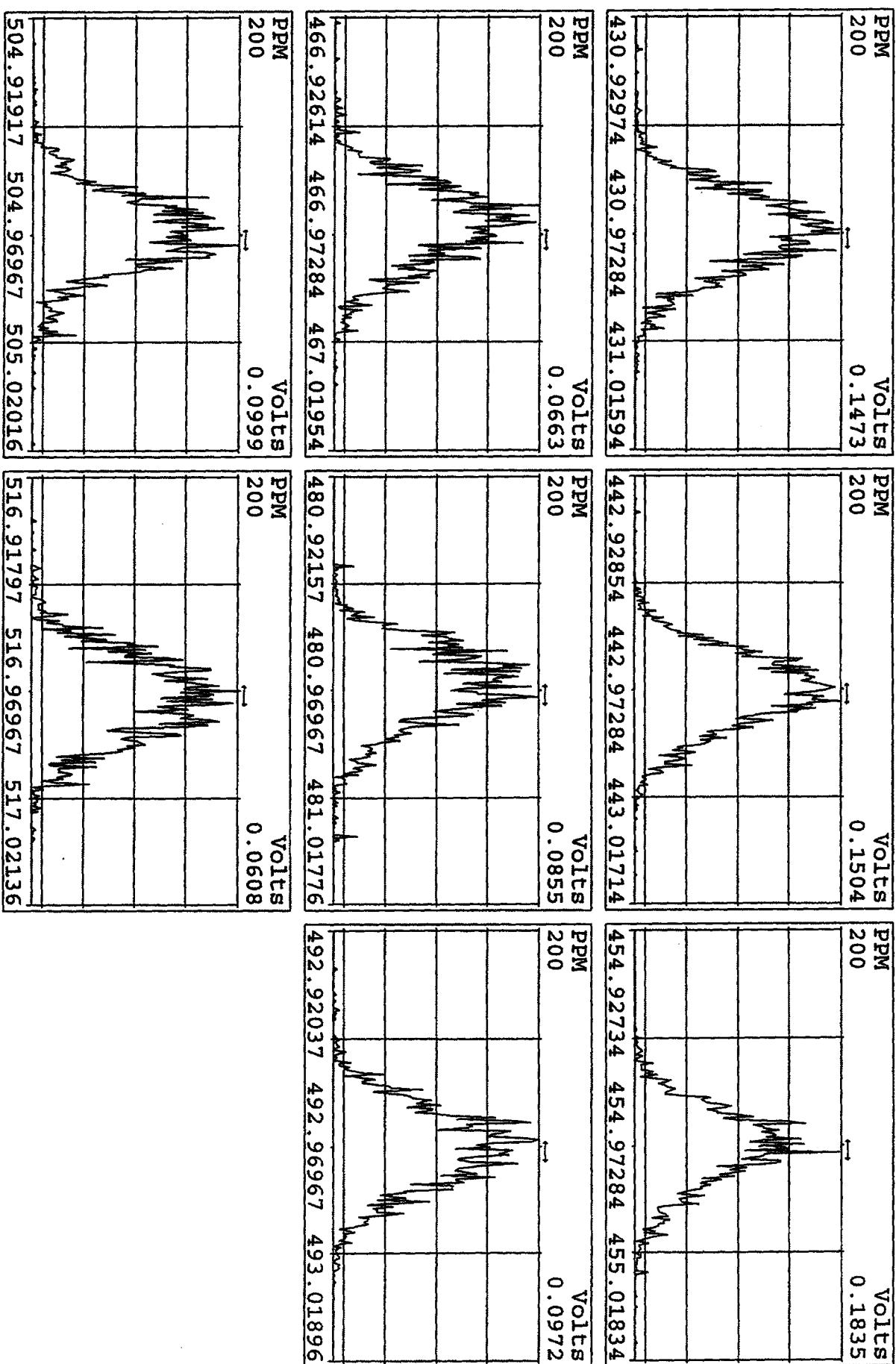
Peak Locate Examination:12-APR-2010:08:27 File:12AP104D5
 Experiment:DIOXINRES8290A Function:3 Reference:PFK

PPM 200	Volts 0.1349	PPM 200	Volts 0.3657	PPM 200	Volts 0.2668
					
366.94255	366.97925	367.01595	380.93795	380.97604	381.01414
PPM 200	Volts 0.2302	PPM 200	Volts 0.1138	PPM 200	Volts 0.1921
					
404.93555	404.97604	405.01654	416.93435	416.97604	417.01774
PPM 200	Volts 0.1738	PPM 200	Volts 0.1983	PPM 200	Volts 0.1834
					
442.92854	442.97284	443.01714	454.92734	454.97284	455.01834

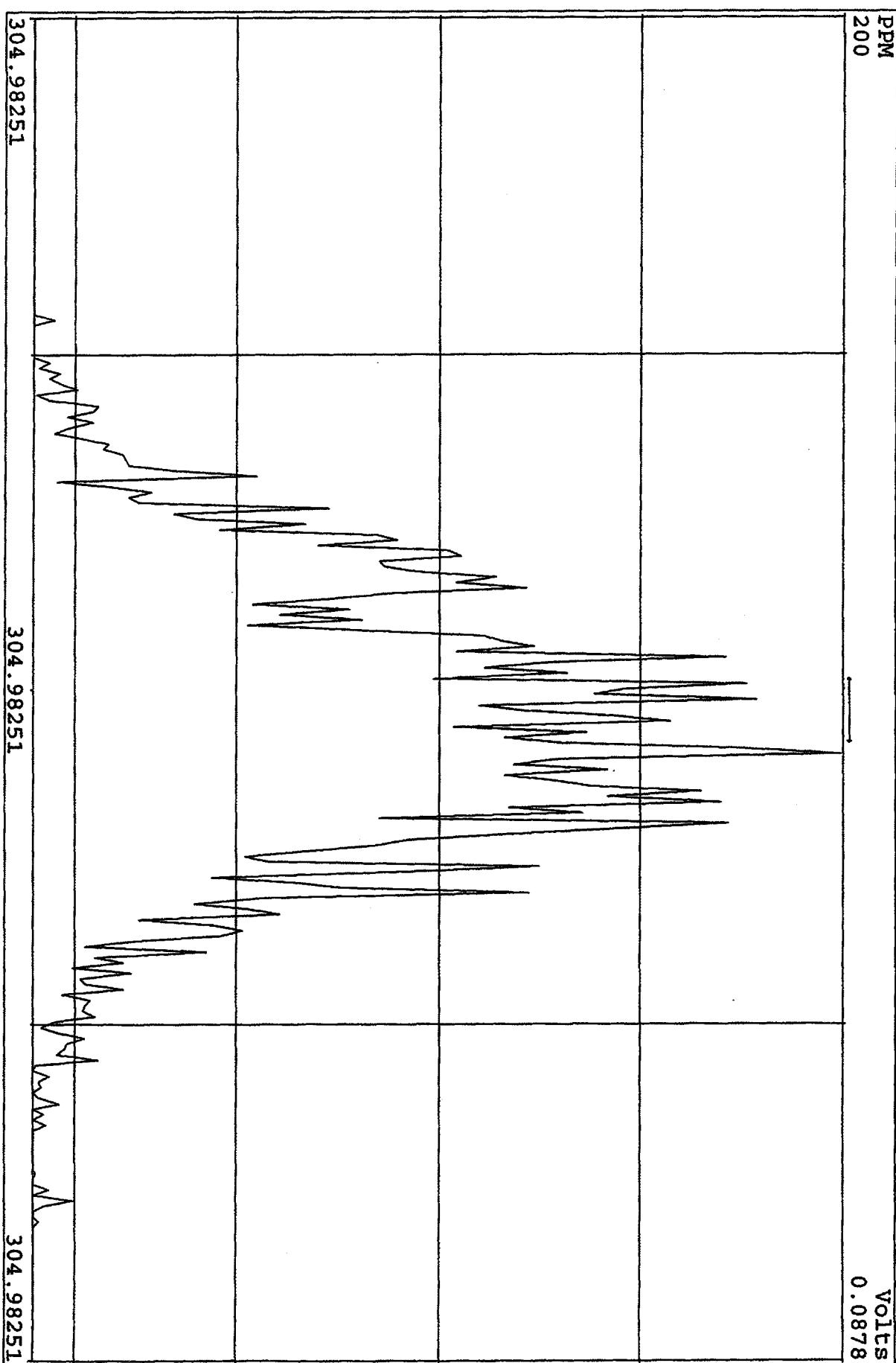
Peak Locate Examination:12-APR-2010:08:27 File:12AP104D5
 Experiment:DIOXINRES8290A Function:4 Reference:PEFK



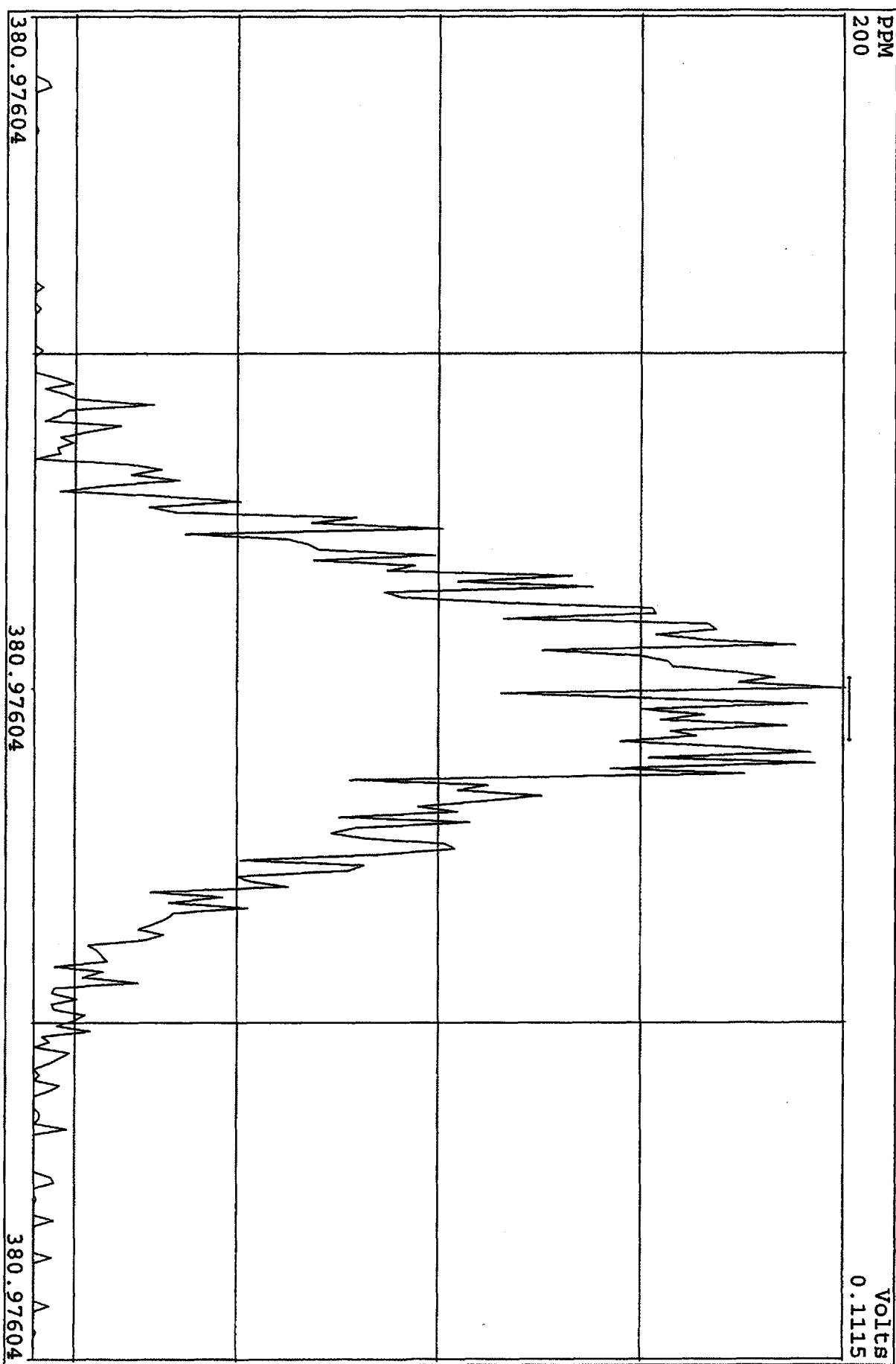
Peak Locate Examination:12-APR-2010:08:28 File:12API04D5
 Experiment:DIOXINRES8290A Function:5 Reference:PFK



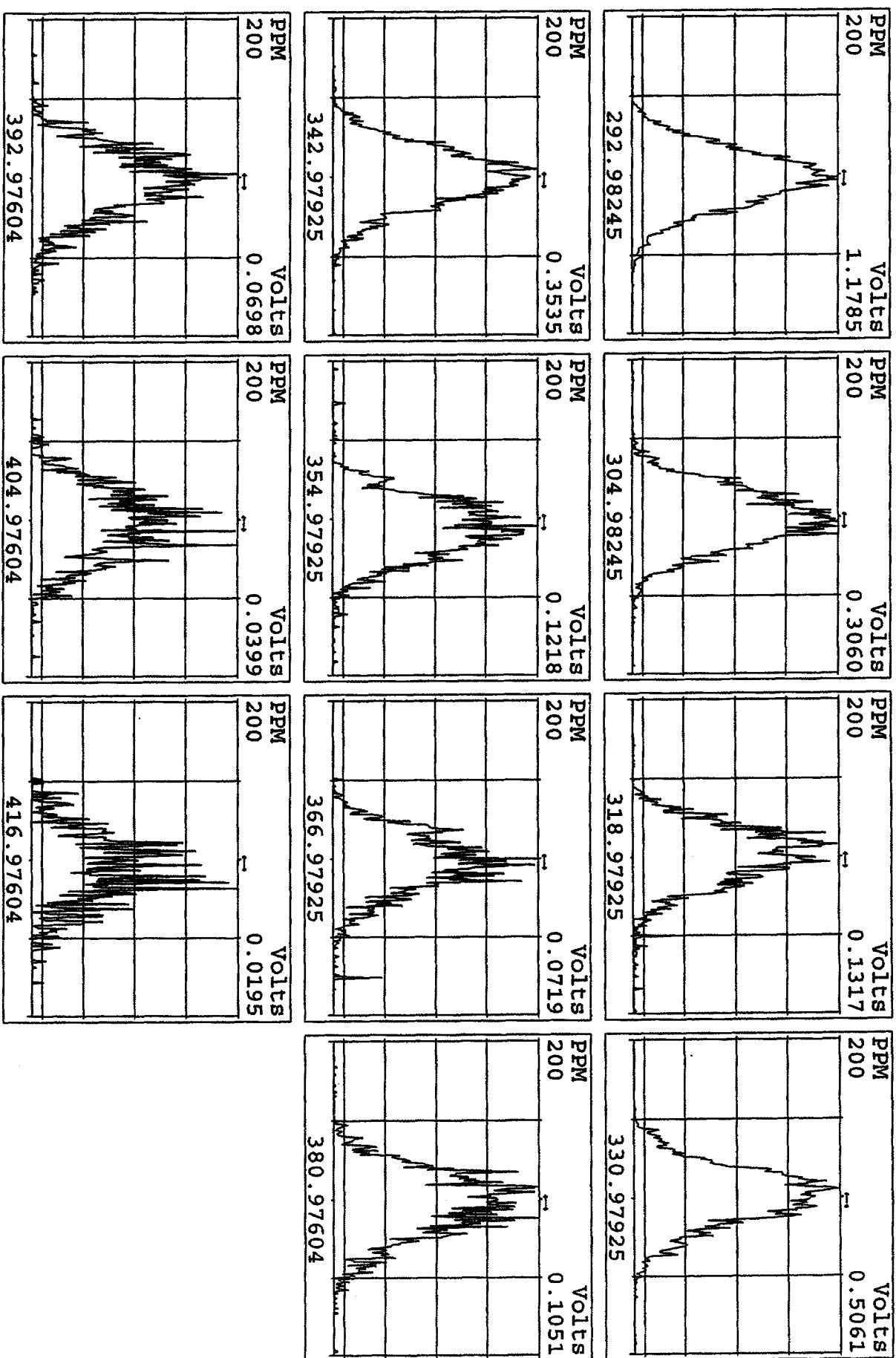
SIRIM Examination:12-APR-2010:14:26 File:12API04DS
Experiment:DIOXINRES8290A Function:7



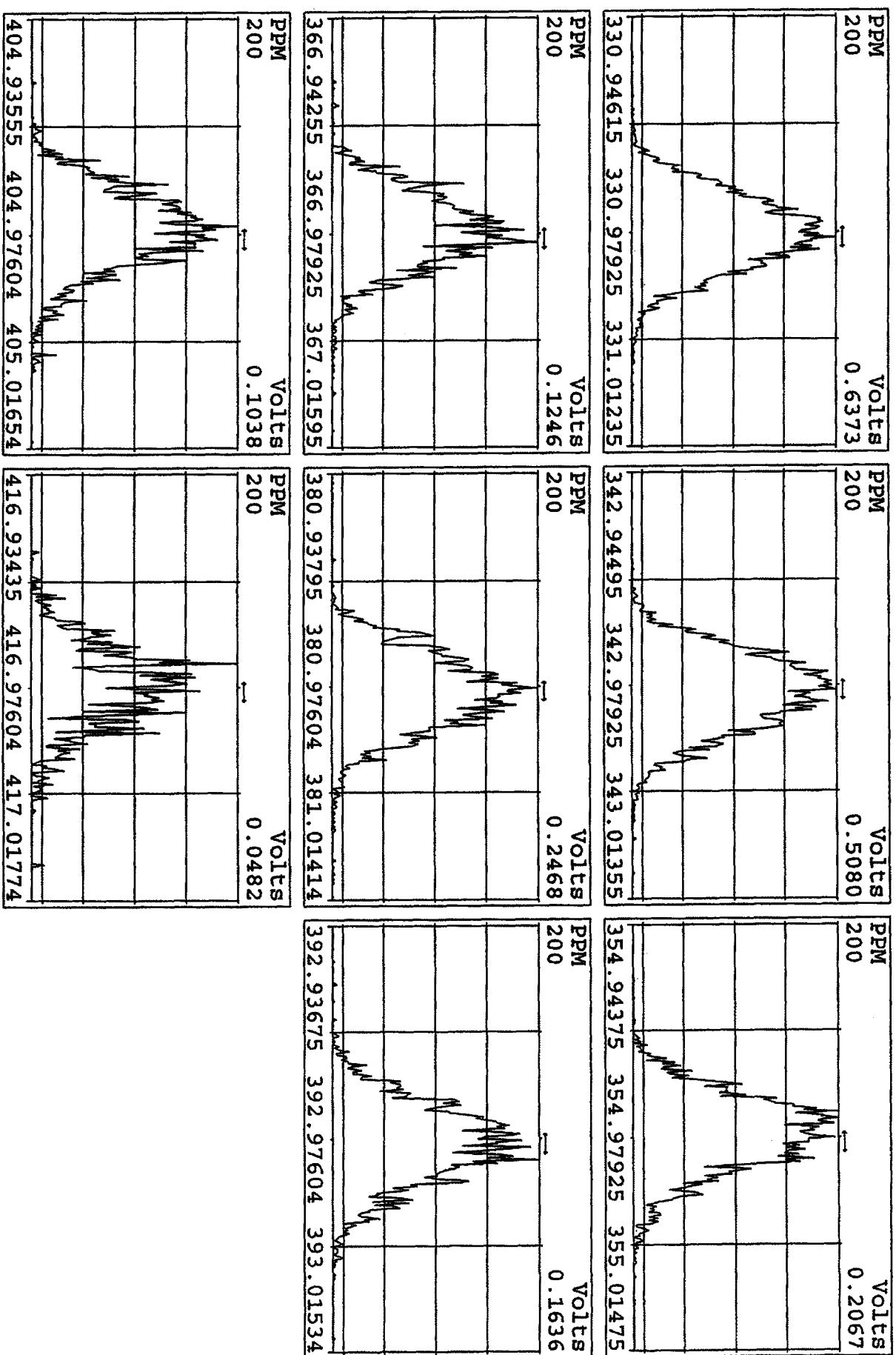
SIRLM Examination:12-APR-2010:14:25 File:12API04D5
Experiment:DIOXINRES8290A Function:6



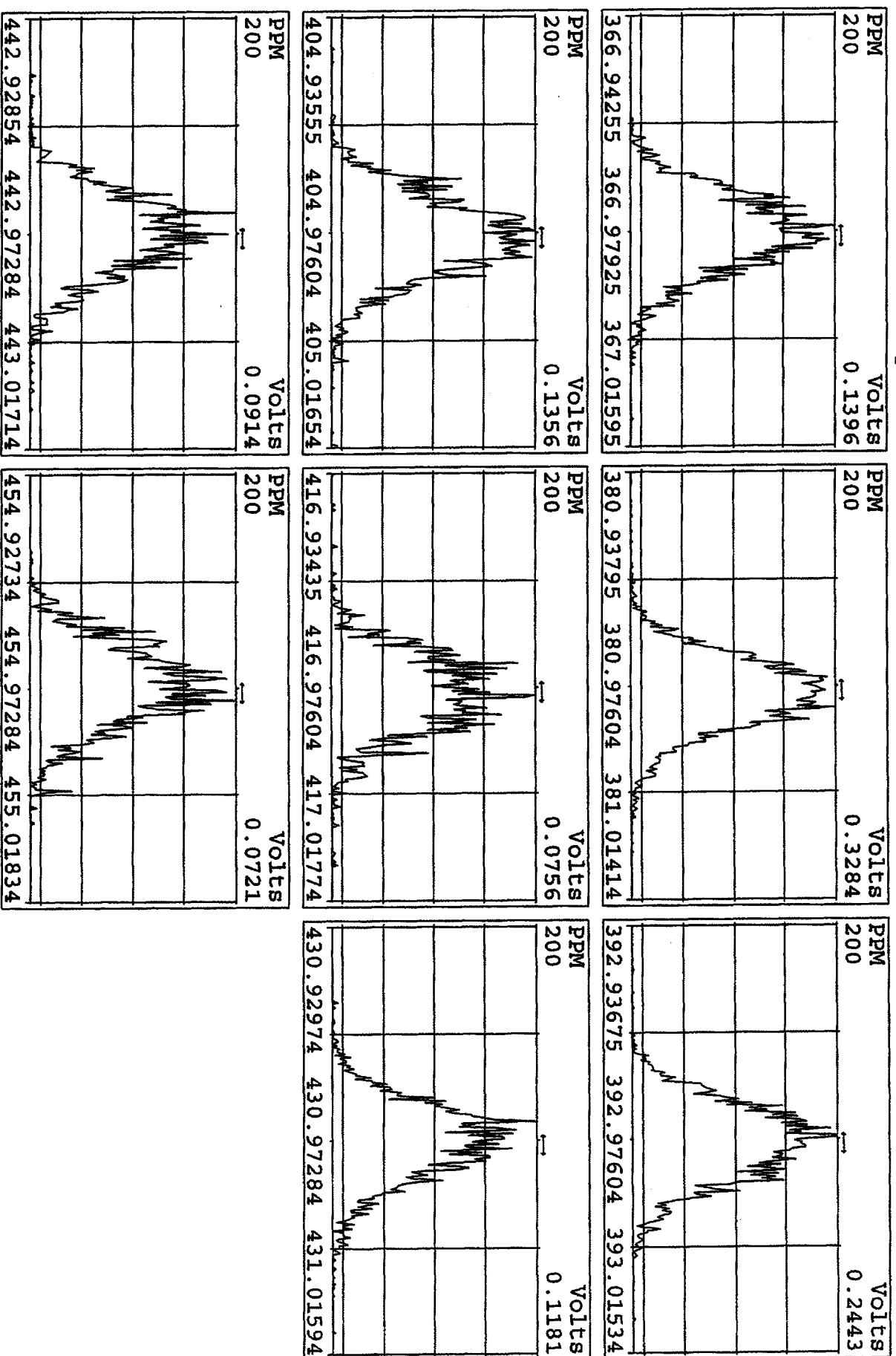
Peak Locate Examination:14-APR-2010:00:00 File:RESCHK12API04DS
 Experiment:DIOXINRES8290A Function:1 Reference:PFK



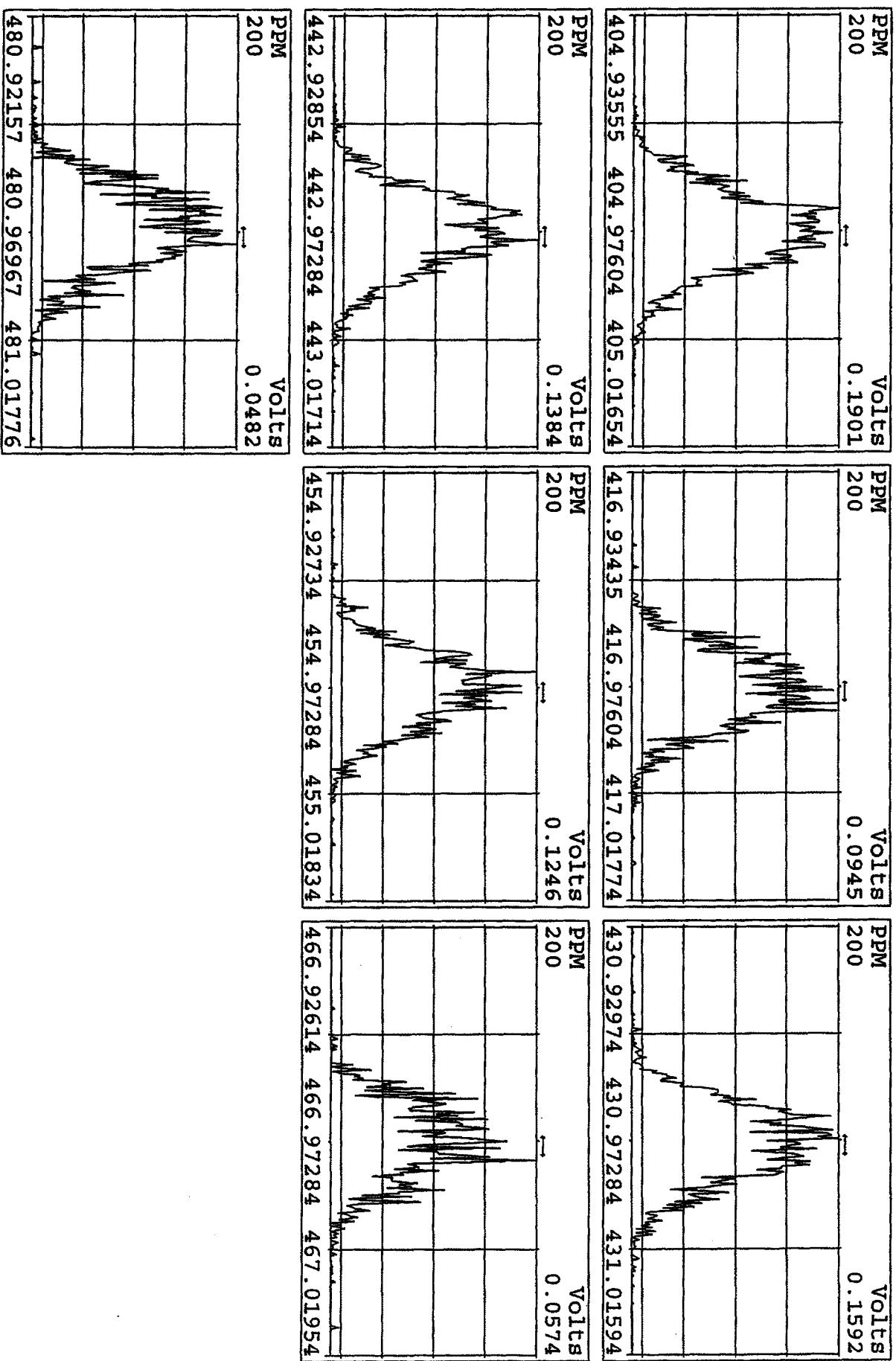
Peak Locate Examination:14-APR-2010:00:01 File:RESCHK12API04D5
 Experiment:DIOXINRES8290A Function:2 Reference:PFK



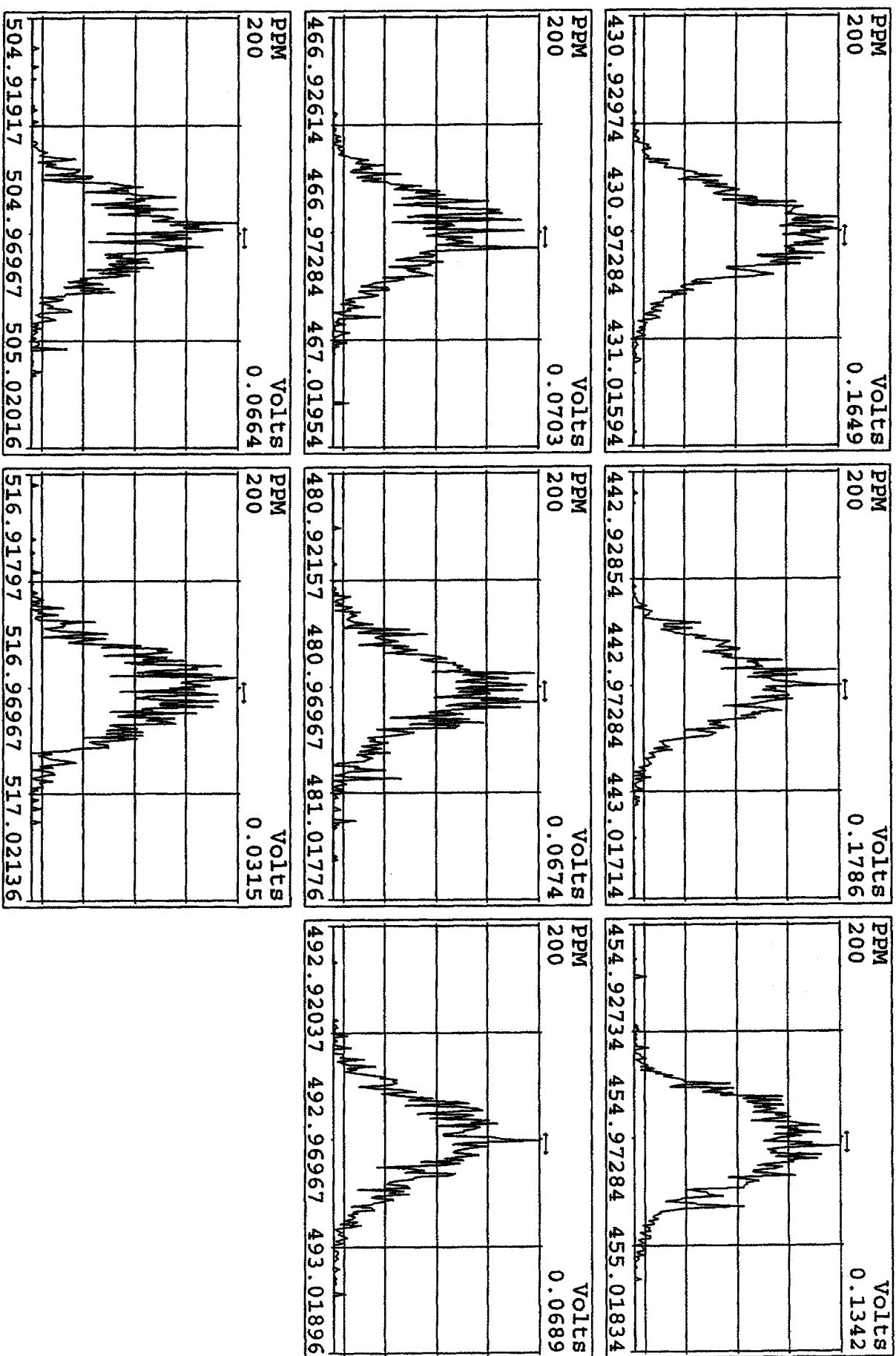
Peak Locate Examination:14-APR-2010:00:01 File:RESCHK12AP104D5
 Experiment:DIOXINRES8290A Function:3 Reference:PFK



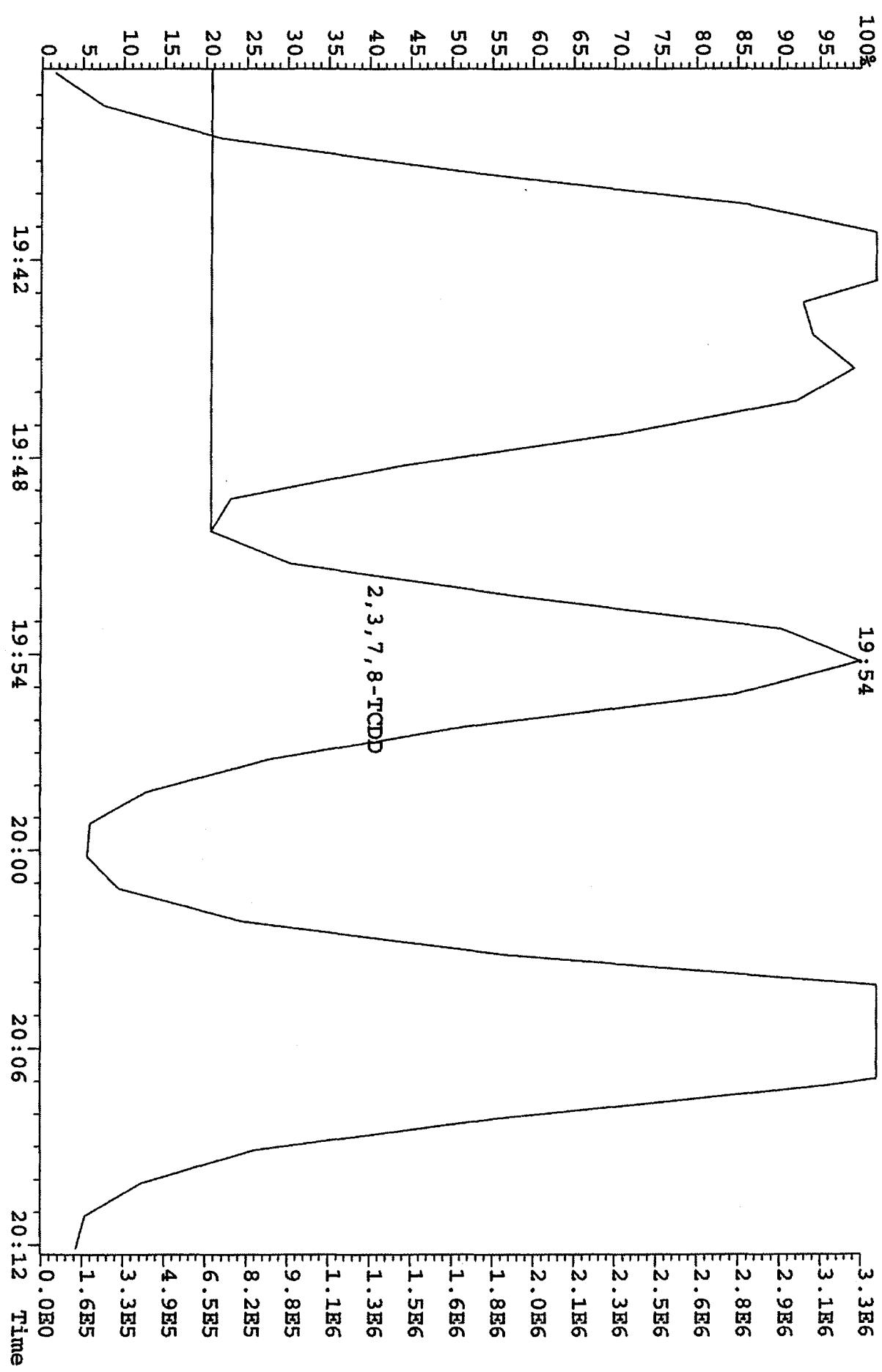
Peak Locate Examination:14-APR-2010:00:02 File:RESCHK12AP104D5
 Experiment:DIOXINRES8290A Function:4 Reference:PFK



Peak Locate Examination:14-APR-2010:00:03 File:RESCHK12API04D5
 Experiment:DIOXINRES8290A Function:5 Reference:PFK



File:12AP104D5 #1-435 Acq:12-APR-2010 08:30:15 GC EI+ Voltage SIR Autospec-UltimaE
321.8936 BSUB(128,15,-3.0) Exp:DIOXINRES8290A Noise:14

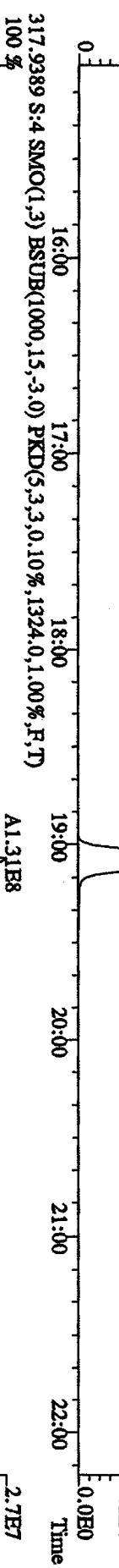
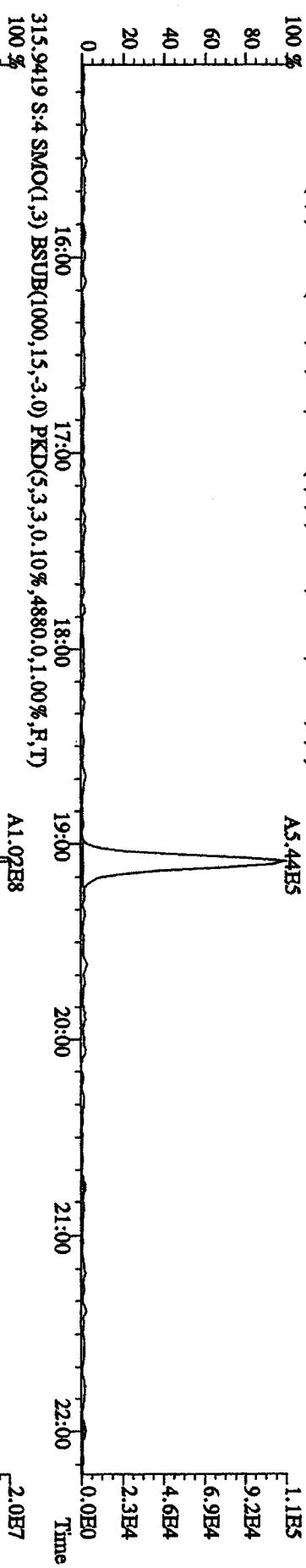
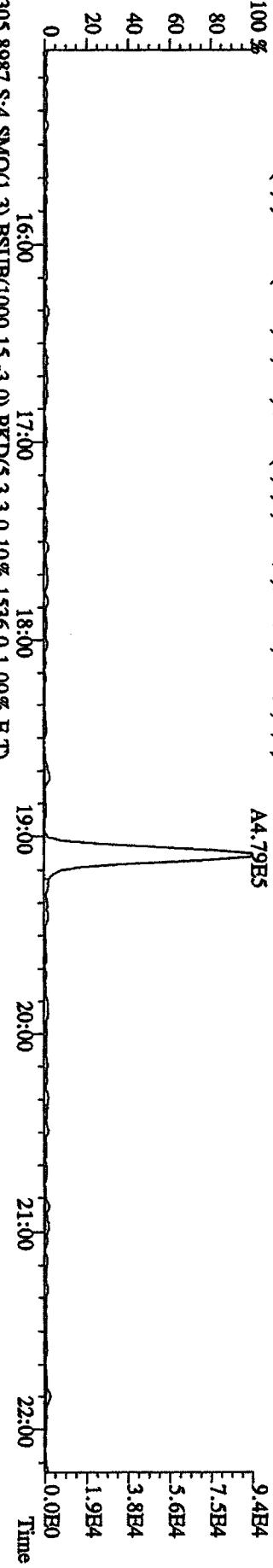


Run text: ST0412E Sample text: ST0412E :2nd Source 09DXN449
 Run #6 Filename: 12AP104D5 S: 7 I: 1 Results: 12AP104D58290A
 Acquired: 12-APR-10 13:00:53 Processed: 12-APR-10 13:48:00
 Run: 12AP104D5 Analyte: 8290A Cal: 8290A0412104D5
 Factor 1: 400.000 Factor 2: 20.000 Sample size: 1.000000

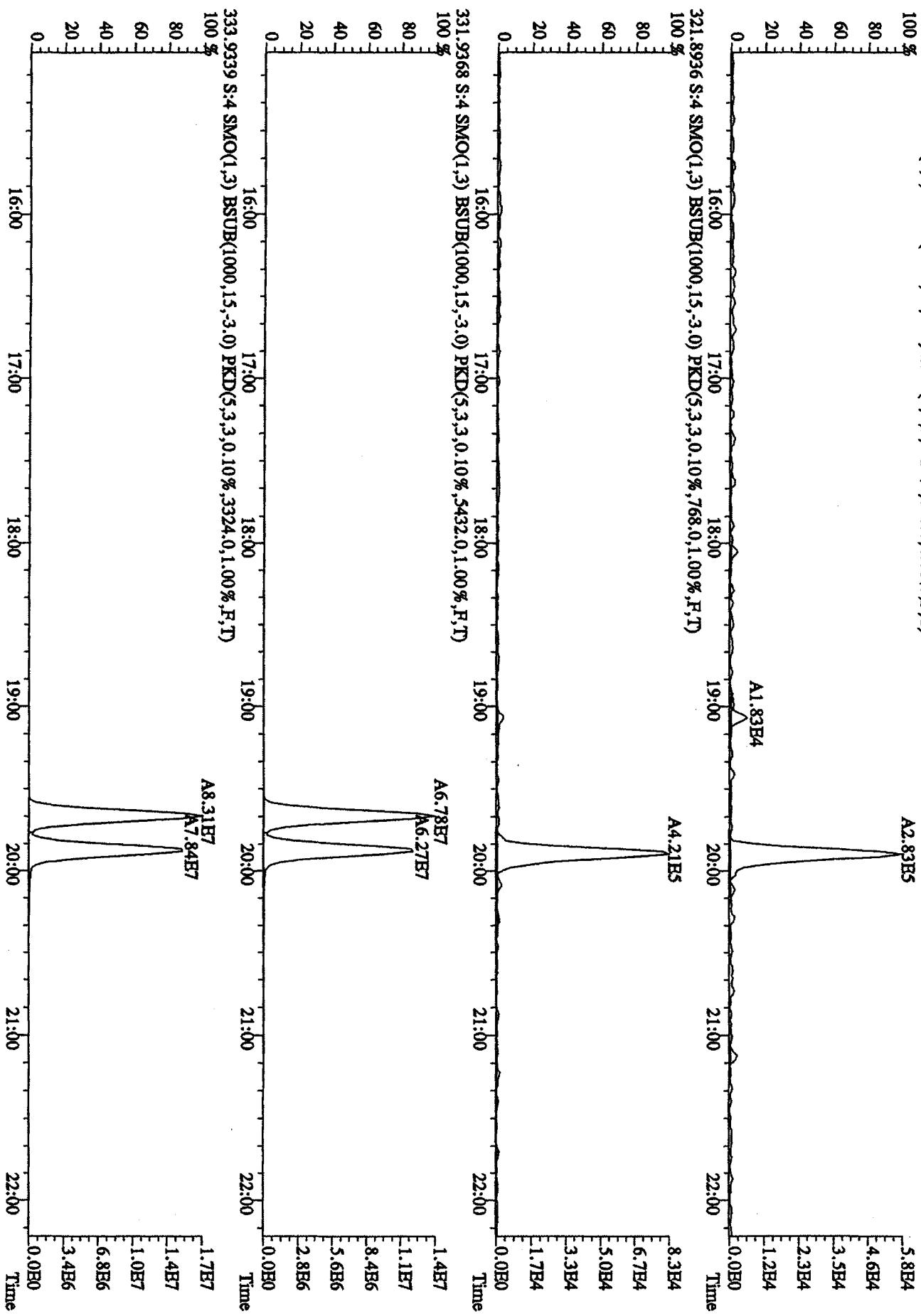
	Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	151409600	0.82	y	19:40	-	113.81	-	-	n
13C-2,3,7,8-TCDF	230171000	0.79	y	19:04	1.52	1999.28	0.93	100.0	n
2,3,7,8-TCDF	21242270	0.79	y	19:05	0.95	195.26	0.34	-	n
Total TCDF	21588235	1.02	n	18:04	0.95	198.44	0.34	-	n
13C-2,3,7,8-TCDD	152072000	0.79	y	19:52	0.95	2115.17	1.71	105.8	n
2,3,7,8-TCDD	15275820	0.77	y	19:53	1.02	196.77	0.50	-	n
Total TCDD	15275820	0.77	y	19:53	1.02	196.77	0.50	-	n
37Cl-2,3,7,8-TCDD	37521800	1.00	y	19:53	2.26	219.18	0.48	109.6	n
13C-1,2,3,7,8-PeCDF	168794500	1.54	y	24:49	1.05	2122.81	0.96	106.1	n
1,2,3,7,8-PeCDF	42754900	1.53	y	24:50	1.04	484.89	0.77	-	n
2,3,4,7,8-PeCDF	39304600	1.50	y	26:21	0.98	474.17	0.82	-	n
Total F2 PeCDF	83226107	0.21	n	23:12	1.01	972.70	0.79	-	n
Total F1 PeCDF	10469	0.45	n	16:46	1.01	0.12	0.61	-	n
13C-1,2,3,7,8-PeCDD	109679100	1.54	y	27:09	0.67	2160.84	0.25	108.0	n
1,2,3,7,8-PeCDD	25416700	1.60	y	27:11	0.98	472.01	0.97	-	n
Total PeCDD	25446396	1.18	n	24:49	0.98	472.56	0.97	-	n
13C-1,2,3,7,8,9-HxCDD	113147700	1.27	y	33:11	-	110.11	-	-	n
13C-1,2,3,4,7,8-HxCDF	123877600	0.52	y	32:02	1.02	2136.54	0.23	106.8	n
1,2,3,4,7,8-HxCDF	37911400	1.23	y	32:03	1.21	504.76	0.33	-	n
1,2,3,6,7,8-HxCDF	40651300	1.15	y	32:10	1.34	488.77	0.30	-	n
2,3,4,6,7,8-HxCDF	35521200	1.16	y	32:43	1.22	469.20	0.32	-	n
1,2,3,7,8,9-HxCDF	31499000	1.17	y	33:21	1.09	465.51	0.36	-	n
Total HxCDF	145654993	1.64	n	30:59	1.22	1929.19	0.33	-	n
13C-1,2,3,6,7,8-HxCDD	96396500	1.28	y	32:55	0.81	2111.23	0.43	105.6	n
1,2,3,4,7,8-HxCDD	26232400	1.22	y	32:51	1.01	540.61	0.40	-	n
1,2,3,6,7,8-HxCDD	26144300	1.25	y	32:56	1.11	486.96	0.36	-	n
1,2,3,7,8,9-HxCDD	28011100	1.25	y	33:11	1.21	480.69	0.33	-	n
Total HxCDD	80387800	1.22	y	32:51	1.11	1508.26	0.36	-	n
13C-1,2,3,4,6,7,8-HpCDF	106632500	0.43	y	34:41	0.86	2185.09	4.33	109.3	n
1,2,3,4,6,7,8-HpCDF	33859900	0.94	y	34:42	1.31	484.91	1.62	-	n
1,2,3,4,7,8,9-HpCDF	26897700	0.96	y	35:50	1.03	491.88	2.07	-	n
Total HpCDF	61065054	0.94	y	34:42	1.17	981.73	1.82	-	n
13C-1,2,3,4,6,7,8-HpCDD	86175900	1.05	y	35:30	0.70	2183.88	1.23	109.2	n
1,2,3,4,6,7,8-HpCDD	22374800	1.02	y	35:31	1.07	484.47	1.05	-	n
Total HpCDD	22766213	0.81	n	34:57	1.07	492.95	1.05	-	n
13C-OCDD	132677900	0.90	y	38:01	0.53	4413.39	0.40	110.3	n

OCDF	45645500	0.90	y	38:08	1.45	952.11	0.72	-	n
OCDD	37812000	0.89	y	38:02	1.17	977.46	1.35	-	n

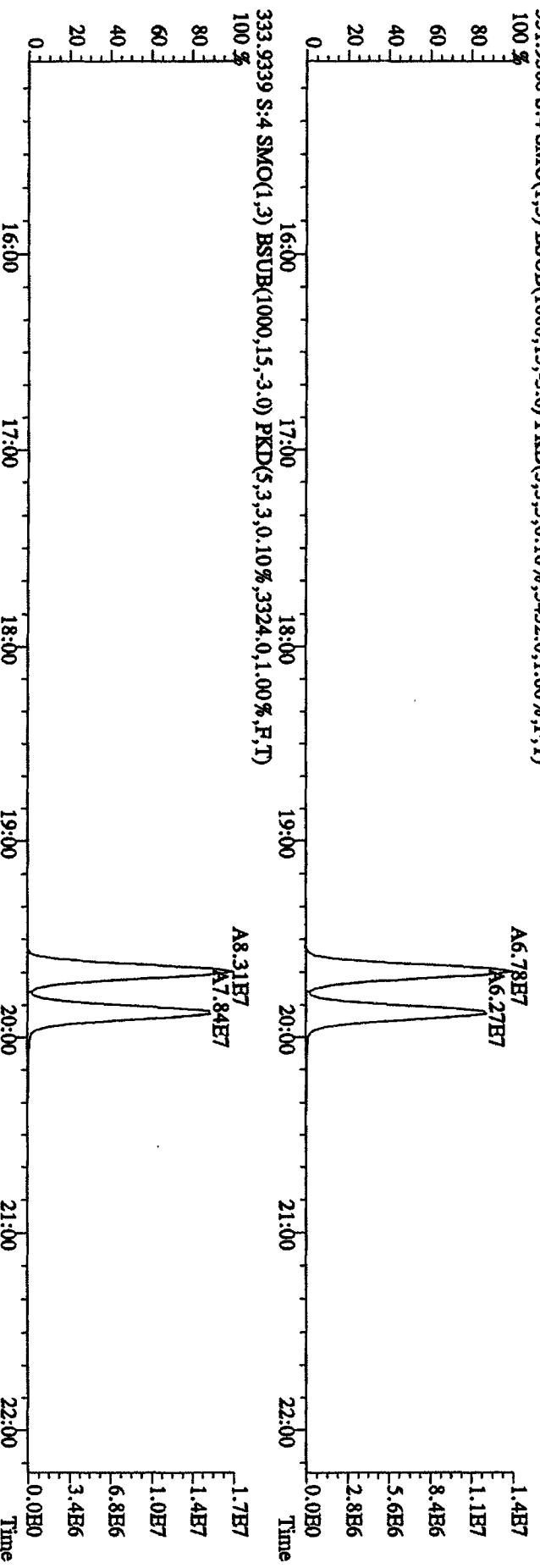
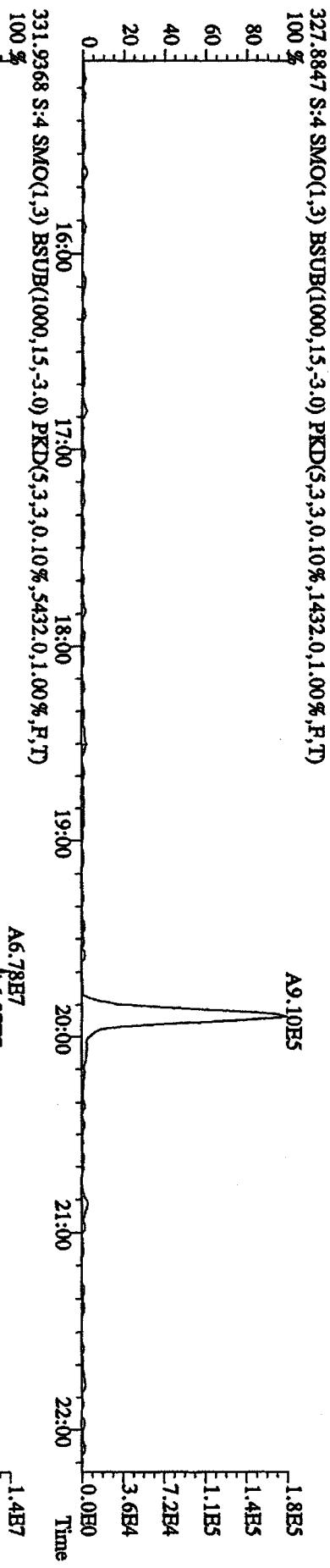
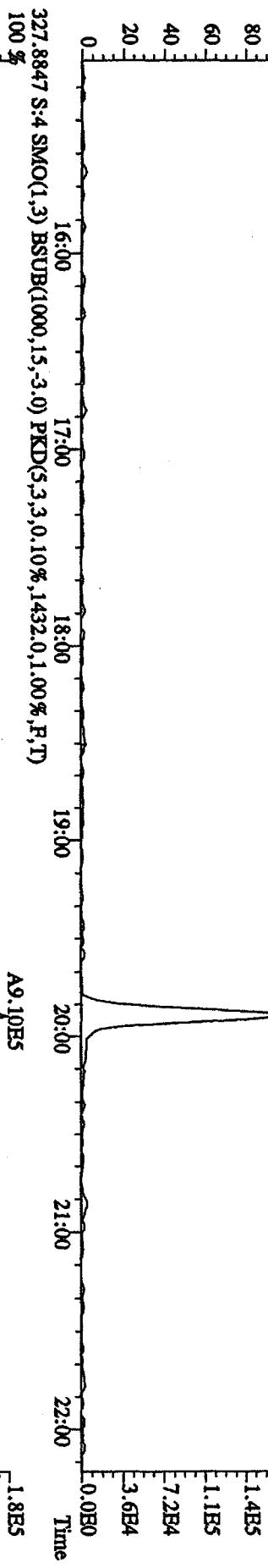
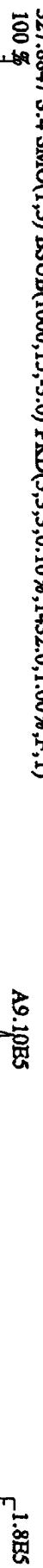
File:12AP104D5 #1-435 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0412B :CS-1 09DXN422 Exp:DIOXINRES8290A
303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1084.0,1.00%,F,T)
100 %



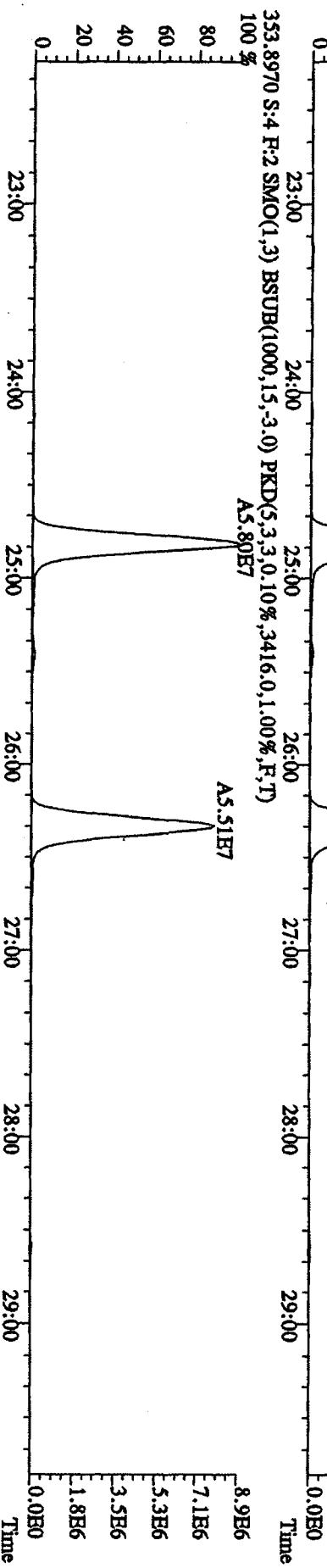
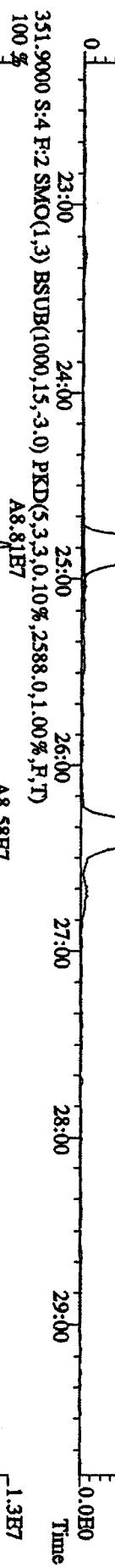
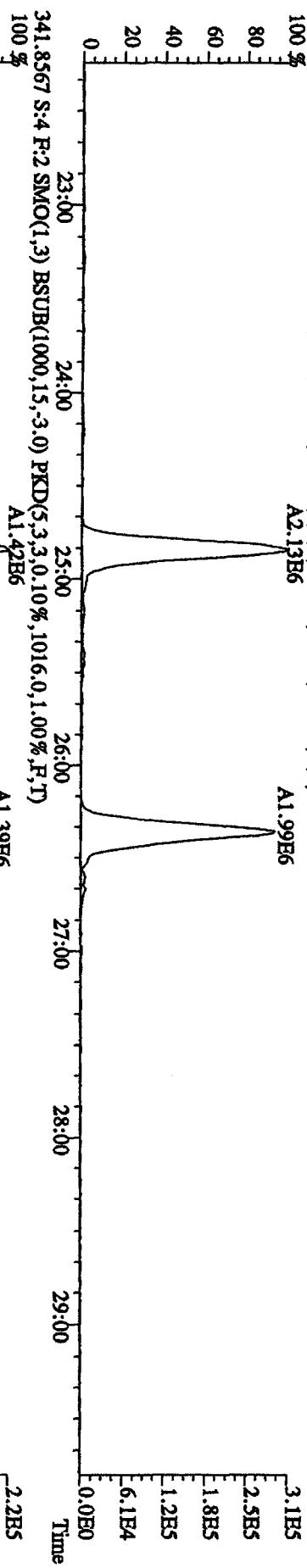
File:12APR104D5 #1-435 Acq:12-APR-2010 10:48:47 GC El+ Voltage SIR Autospec-Ultimate
 Sample#4 Text:ST0412B ;CS-1 09DXN422 Exp:DIOXINRES8290A
 319.8965 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,840.0,1.00%,F,T)
 100 %



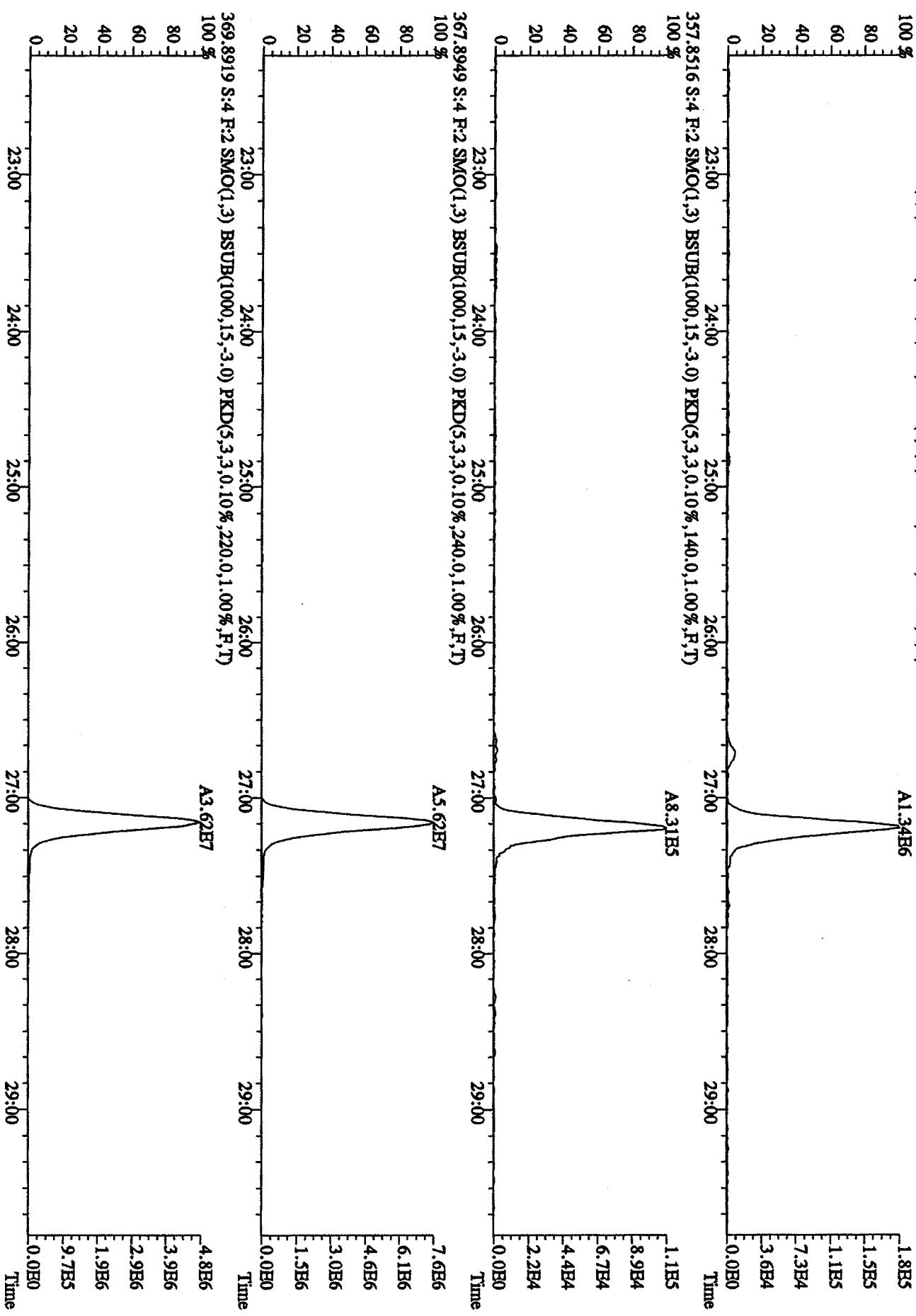
File:12AP104D5 #1-435 Acq:12-APR-2010 10:48:47 GC: EI+ Voltage SIR Autospec-UltimaB
Sample#4 TestST0412B ;CS-1 09DXN422 Exp:DIOXINRLES320A
327.8847 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(\$,\$,3,0,10%,1432.0,1.00%,F,T)



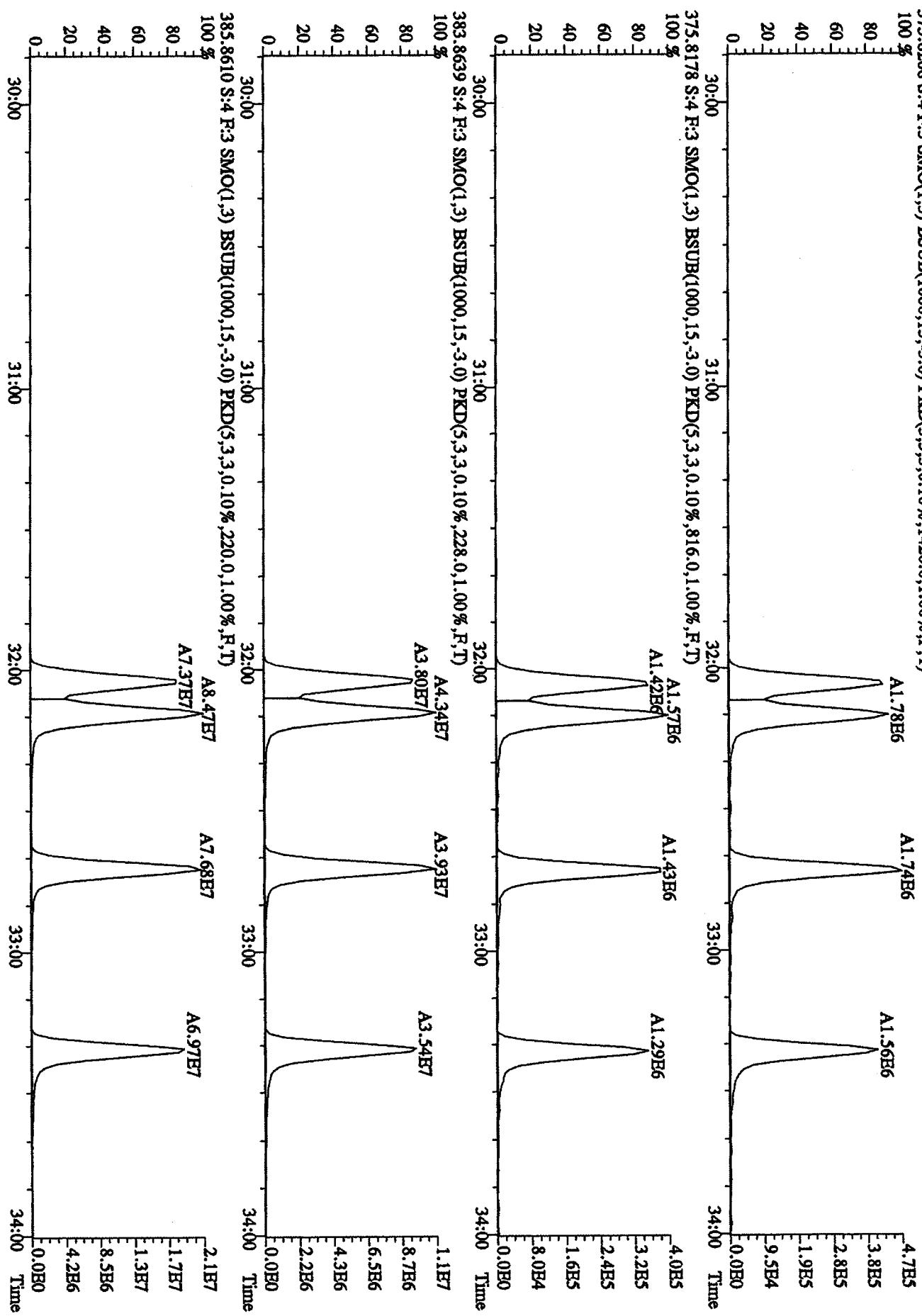
File:12AP104D5 #1-604 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-Ultima3
 Sample#4 Text:ST0412B :CS-1.09DXN422 Exp:DIOXINRES8290A
 339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,400.0,1.00%,F,T)
 A2.13E6 A1.99E6
 100 %
 80
 60
 40
 20
 0



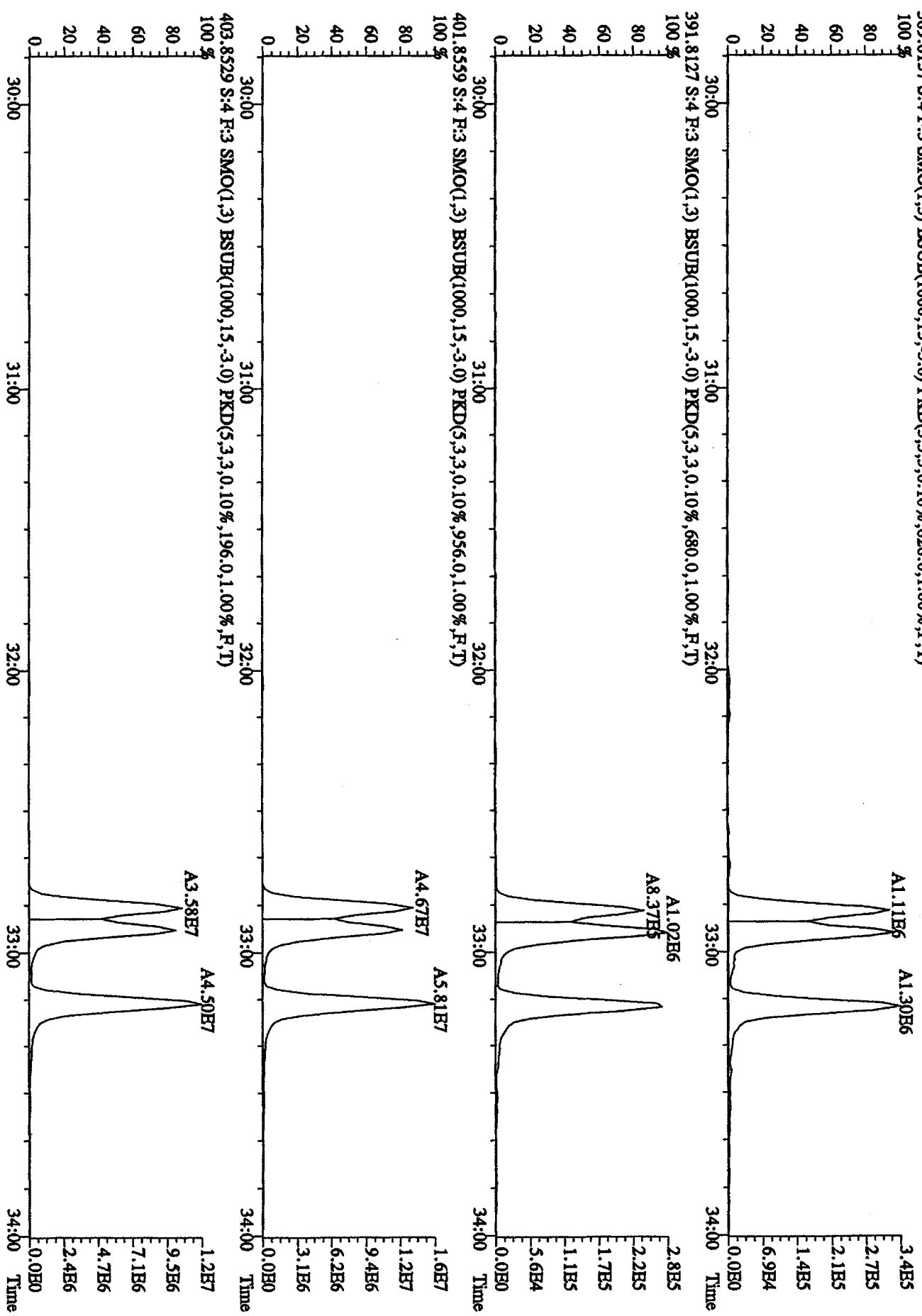
File:12AP104D5 #1-604 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaB
Sample#4 Text:S10412B :CS-1.09DXN422 Exp:DIOXINRES290A
355.8546 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,140,0,1.00%,R,T)
100 %



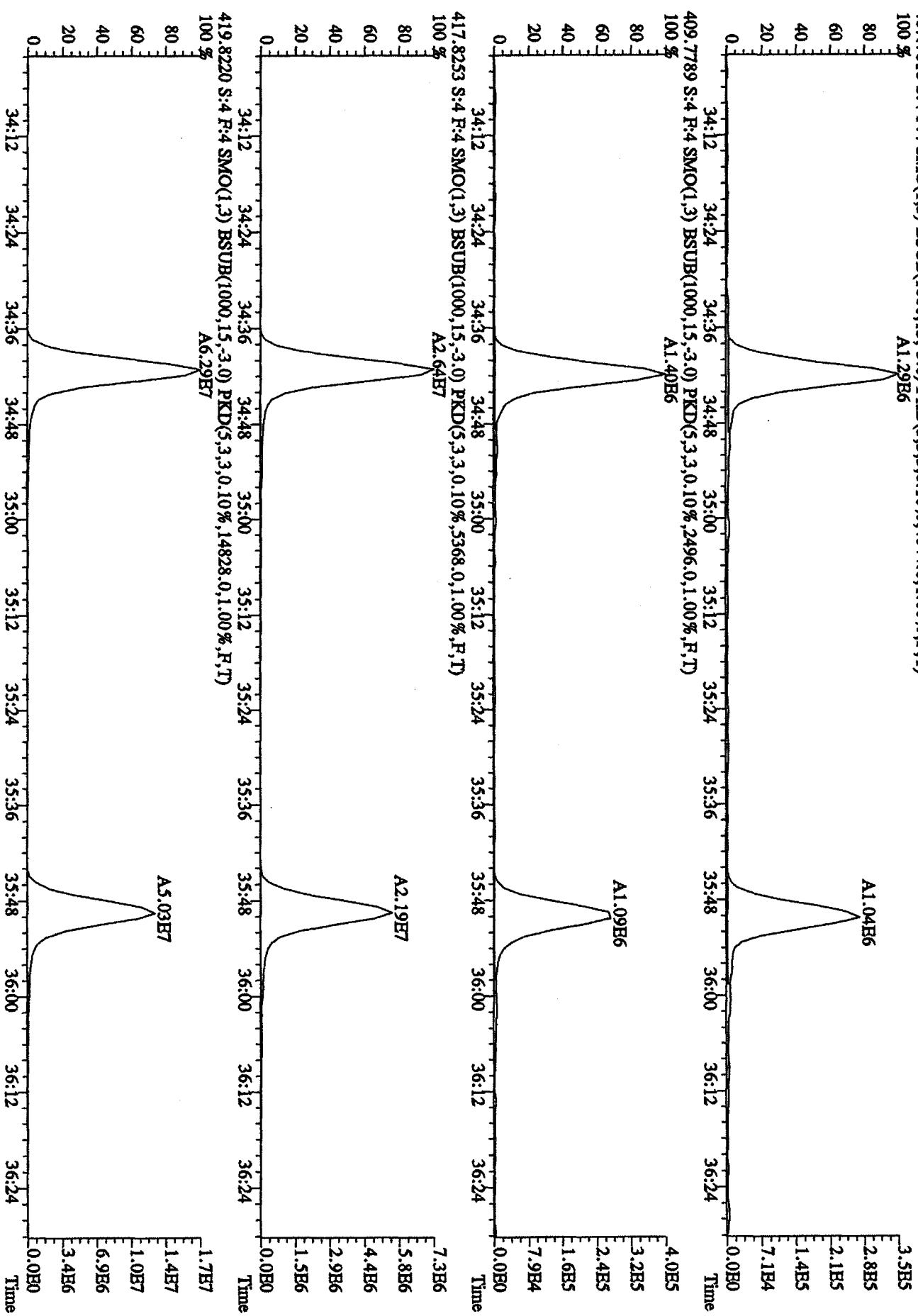
File:12AP104D5 #1-317 Acq:12-APR-2010 10:48:47 GC HI+ Voltage SIR Autospec-UltimaB
Sample#4 Text:ST0412B :CS-1.09DXN422 Exp:DIOXINRES8290A
373-8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,816,0,1.00%,F,T)



File:12AP104D5 #1317 Acq:12-APR-2010 10:48:47 GC HI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0412B :CS-1 09DXN422 Exp:DIOXINRES8290A
389.8157 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,828.0,1.00%,F,T)
100 %



File:12AP104D5 #1-198 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#4 TestS10412B :CS-1 09DXN422 Exp:DIOXINRES8290A
 407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4044.0,1.00%,R,T)
 A1.29E6



File:12AP104D5 #1-198 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaB

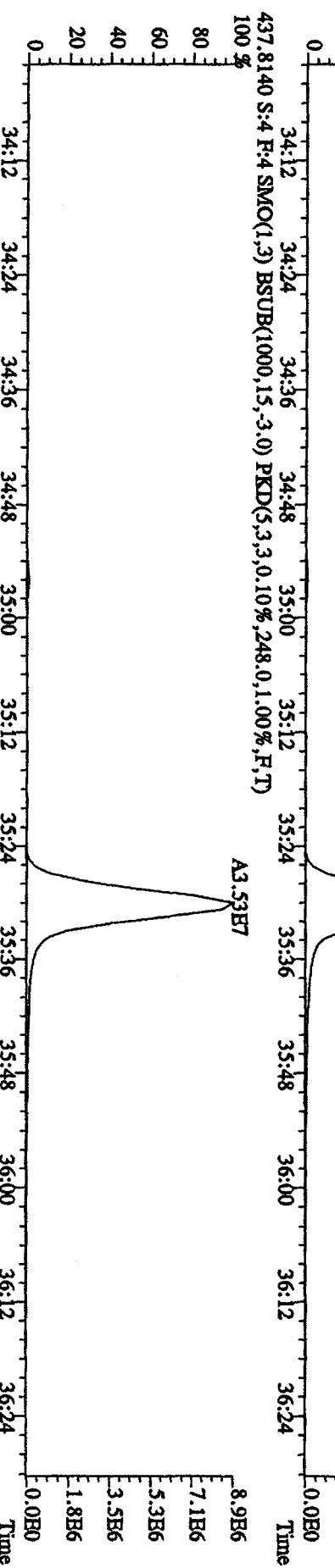
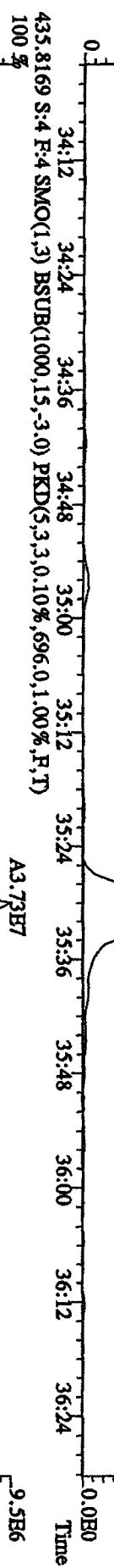
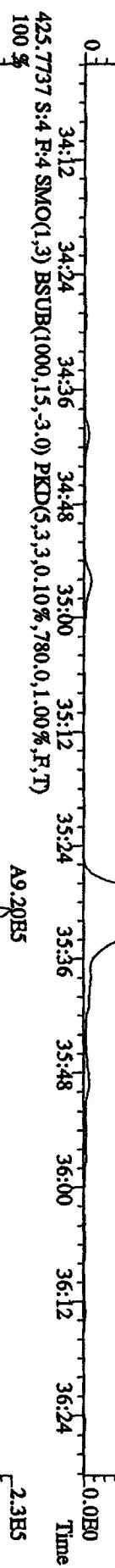
Sample#4 Text:ST0412B :CS-1.09DXN422 Rp:DIOXINRBS820A

423.7766 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,460.0,1.00%,F,T)

425.7737 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,780.0,1.00%,F,T)

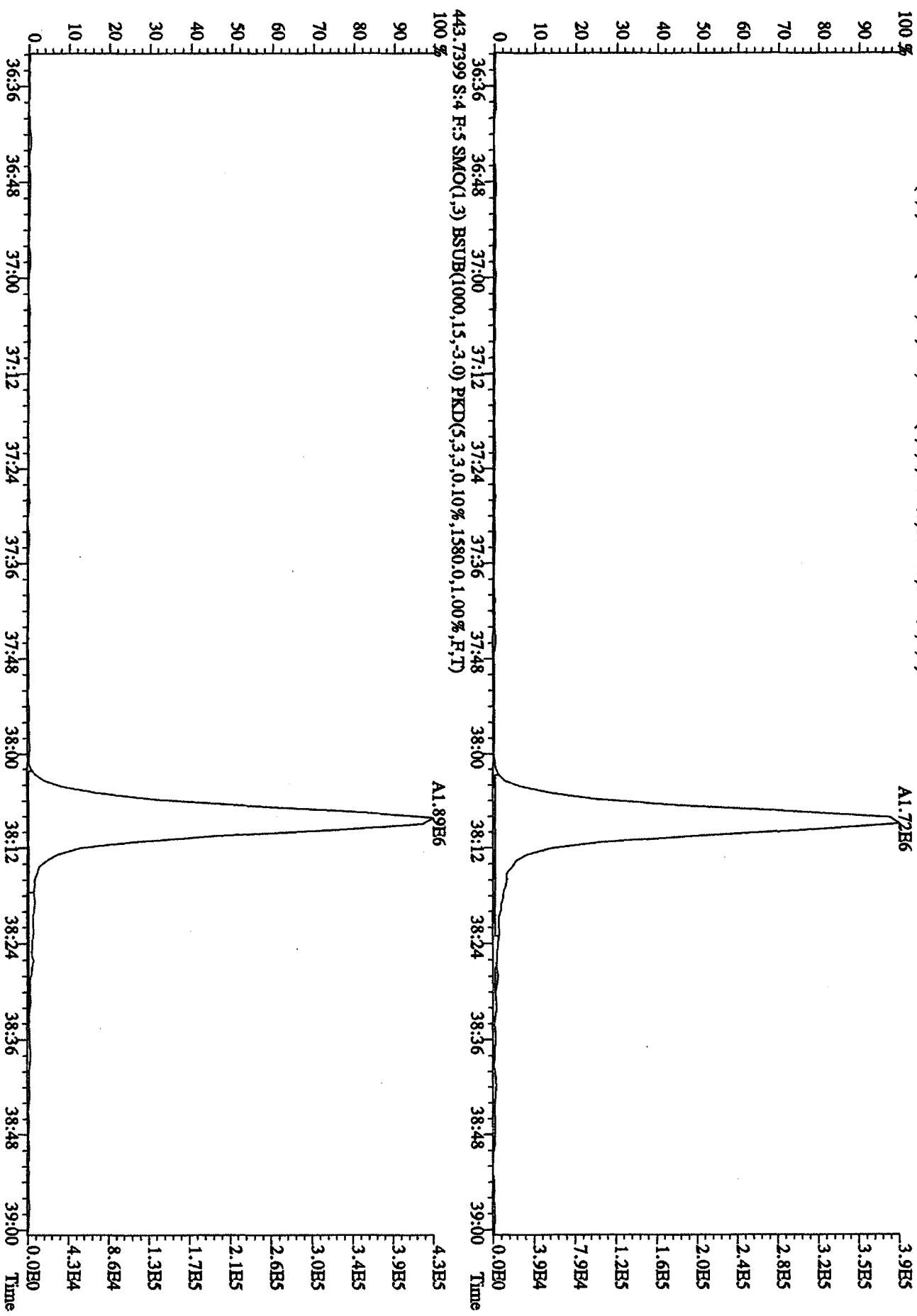
A9.47E5

2.4E5
1.9E5
1.4E5
9.5E4
4.8E4

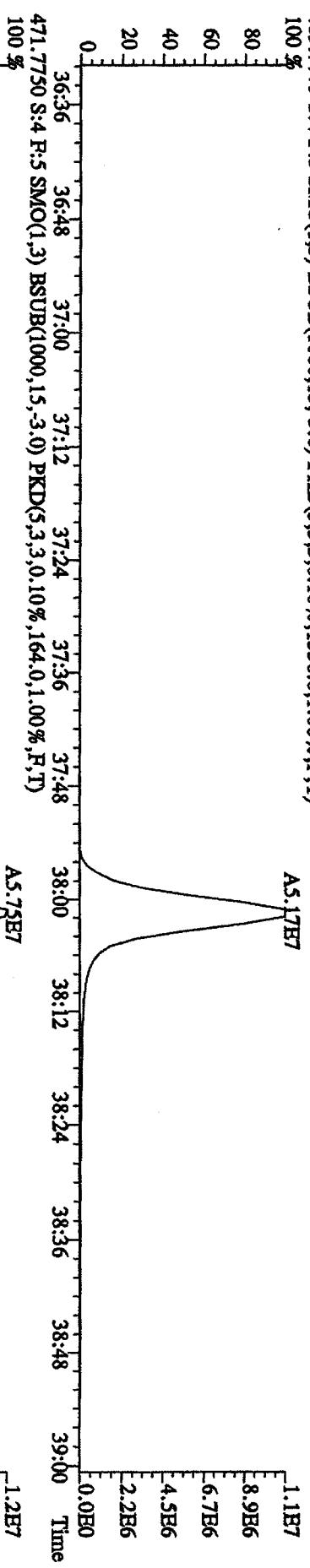
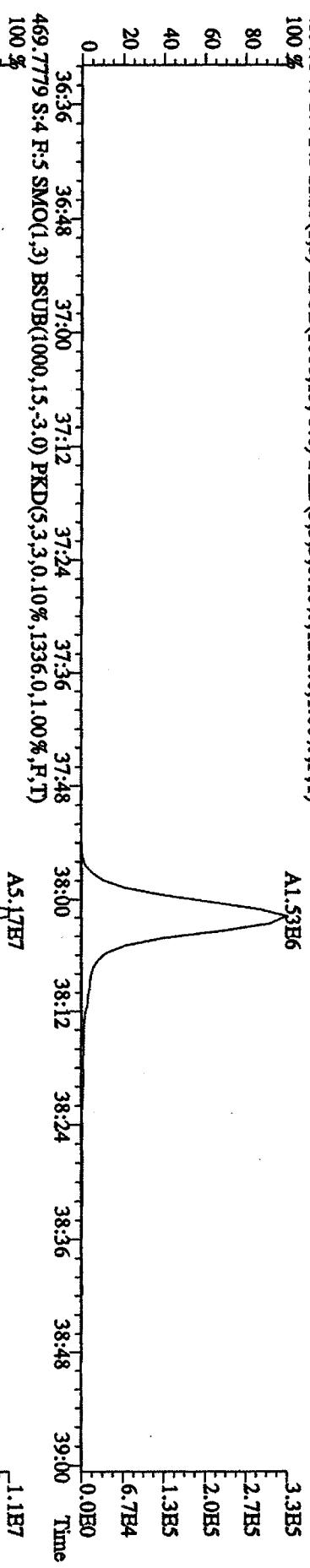
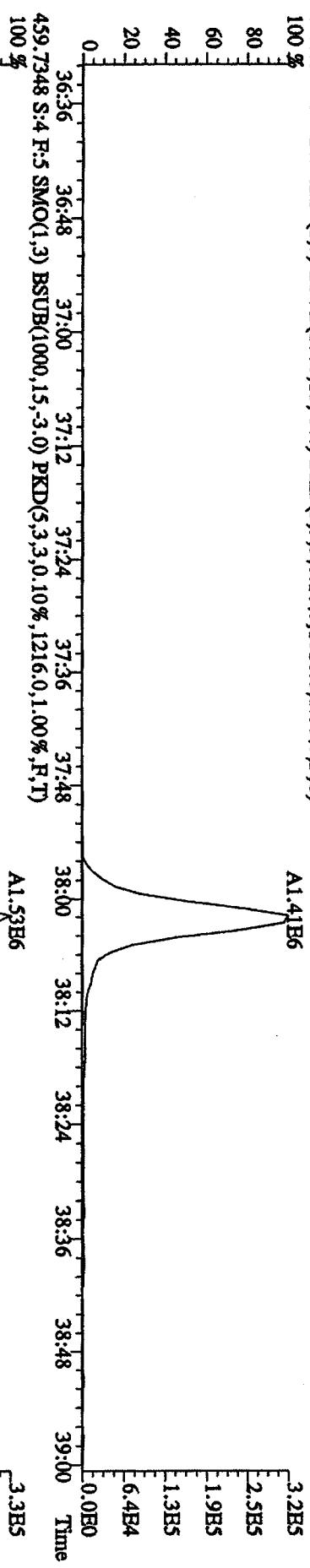


File:12AP104D5 #1-191 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaB
Sample#4 Text:ST0412B .CS-1 09DXN422 Exp:DIOXINRES8290A
441.7428 S:4 R:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1580.0,1.00%,R,T)
100 %

A1.72E6



File:12AP104D5 #1-191 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaH
 Sample#4 Tex:ST0412B :CS-1 09DXN422 Exp:DIOXINRHS8290A
 457.7377 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1816.0,1.00%,F,T)
 100 % A1.41E6 3.2E5
 80
 60
 40
 20
 0



Sample#4 Text:ST0412B :CS-1 09DXN422 Exp:DIOXINRHS8290A

354.9792 S:4 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)

100 % 15:16 15:56 16:19 16:52 17:15 17:38 18:00 18:27 18:56 19:39 20:27 20:53 21:20 21:44 6.3E6

80 15:26 16:02 16:31 17:07 17:29 17:53 18:06 18:37 18:59 20:05 20:47 20:56 21:01 21:43 22:03 5.0E6

60 15:32 16:09 16:31 17:07 17:29 17:53 18:06 18:37 18:59 20:05 20:47 20:56 21:01 21:43 5.8E6

40 15:21 16:02 16:31 17:07 17:29 17:53 18:06 18:37 18:59 20:05 20:47 20:56 21:01 21:43 5.5E6

20 15:16 15:56 16:19 16:52 17:15 17:38 18:00 18:27 18:56 19:39 20:27 20:53 21:20 21:44 1.3E6

0 16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time 0.0E0 9.4E4

303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1084.0,1.00%,F,T) A4.79E5

100 % 16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time 7.5E4

80 16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time 5.6E4

60 16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time 3.8E4

40 16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time 1.9E4

20 16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time 0.0E0 2.3E4

375.8364 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,196.0,1.00%,F,T) A5.44E5

100 % 16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time 1.1E5

80 15:33 15:52 16:05 16:13 16:31 16:56 17:31 18:07 18:31 18:57 19:11 20:12 21:30 21:45 22:01 2.5E3

60 15:33 15:52 16:05 16:13 16:31 16:56 17:31 18:07 18:31 18:57 19:11 20:12 21:30 21:45 22:01 2.0E3

40 15:33 15:52 16:05 16:13 16:31 16:56 17:31 18:07 18:31 18:57 19:11 20:12 21:30 21:45 22:01 1.5E3

20 15:33 15:52 16:05 16:13 16:31 16:56 17:31 18:07 18:31 18:57 19:11 20:12 21:30 21:45 22:01 9.9E2

0 16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time 5.0E2

400.7974 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,176.0,1.00%,F,T) 2.0E2

100 % 16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time 2.0E0

80 15:32 16:02 16:31 17:07 17:29 17:53 18:06 18:37 18:59 20:05 20:47 20:56 21:01 21:43 22:03 2.8E3

60 15:21 16:02 16:31 17:07 17:29 17:53 18:06 18:37 18:59 20:05 20:47 20:56 21:01 21:43 2.2E3

40 15:16 15:56 16:19 16:52 17:15 17:38 18:00 18:27 18:56 19:39 20:27 20:53 21:20 21:44 1.7E3

20 15:16 15:56 16:19 16:52 17:15 17:38 18:00 18:27 18:56 19:39 20:27 20:53 21:20 21:44 1.1E3

0 16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time 5.5E2

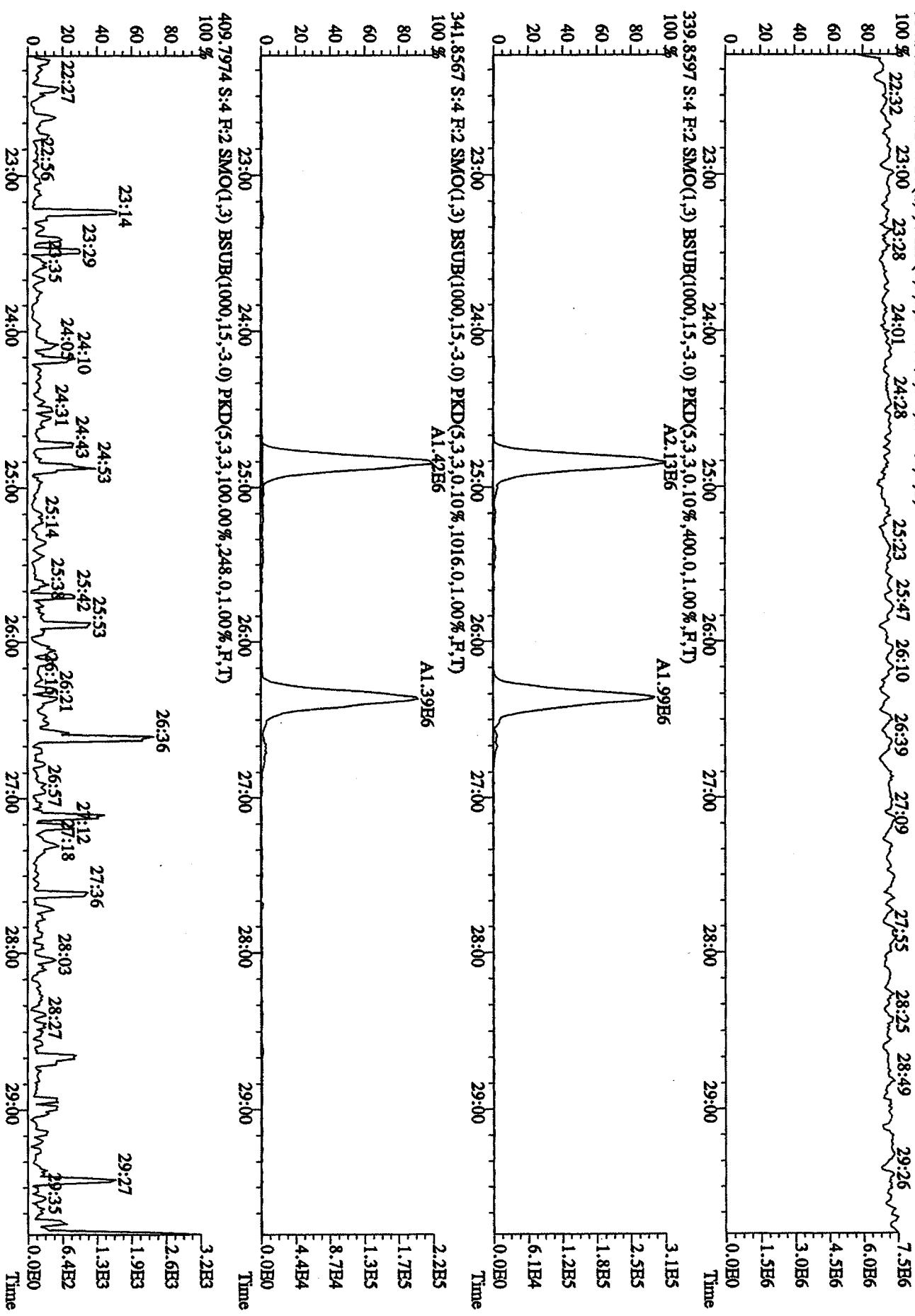
G0D130519 TestAmerica West Sacramento (916) 373 - 5600 225 of 314

Sample#4 Text:ST0412B :CS-1.09DXN422 Exp:DIOKINRES8290A

354.9792 S:4 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,400.0,1.00%,F,T)

341.8567 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1016.0,1.00%,F,T)



File:12AP104D5 #1-317 Acq:12-APR-2010 10:48:47 GC HI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0412B :CS-1 09DXN422 Exp:DIOXINRES8290A
430.9728 S:4 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
100 % 29:59 30:13 30:26 30:41 31:08 31:46 32:12 32:30 32:49 33:10 33:23 33:37 33:52 7.4E6
80
60
40
20
0

373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1420.0,1.00%,F,T)
100 % 30:00 31:00 32:00 33:00 34:00 Time
80
60
40
20
0

4.7E5
3.8E5
2.8E5
1.9E5
9.5E4

A1.78E6 A1.74E6 A1.56E6
A1.57E6 A1.43E6 A1.29E6
A1.42E6
4.0E5
3.2E5
2.4E5
1.6E5
8.0E4
7.6E3
6.0E3
4.5E3
1.5E3
0.0E0

30:00 31:00 32:00 33:00 34:00 Time
375.8178 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,816.0,1.00%,F,T)
100 % 30:00 31:00 32:00 33:00 34:00 Time
80
60
40
20
0

4.7E5
3.8E5
2.8E5
1.9E5
9.5E4

A1.78E6 A1.74E6 A1.56E6
A1.57E6 A1.43E6 A1.29E6
A1.42E6
4.0E5
3.2E5
2.4E5
1.6E5
8.0E4
7.6E3
6.0E3
4.5E3
1.5E3
0.0E0

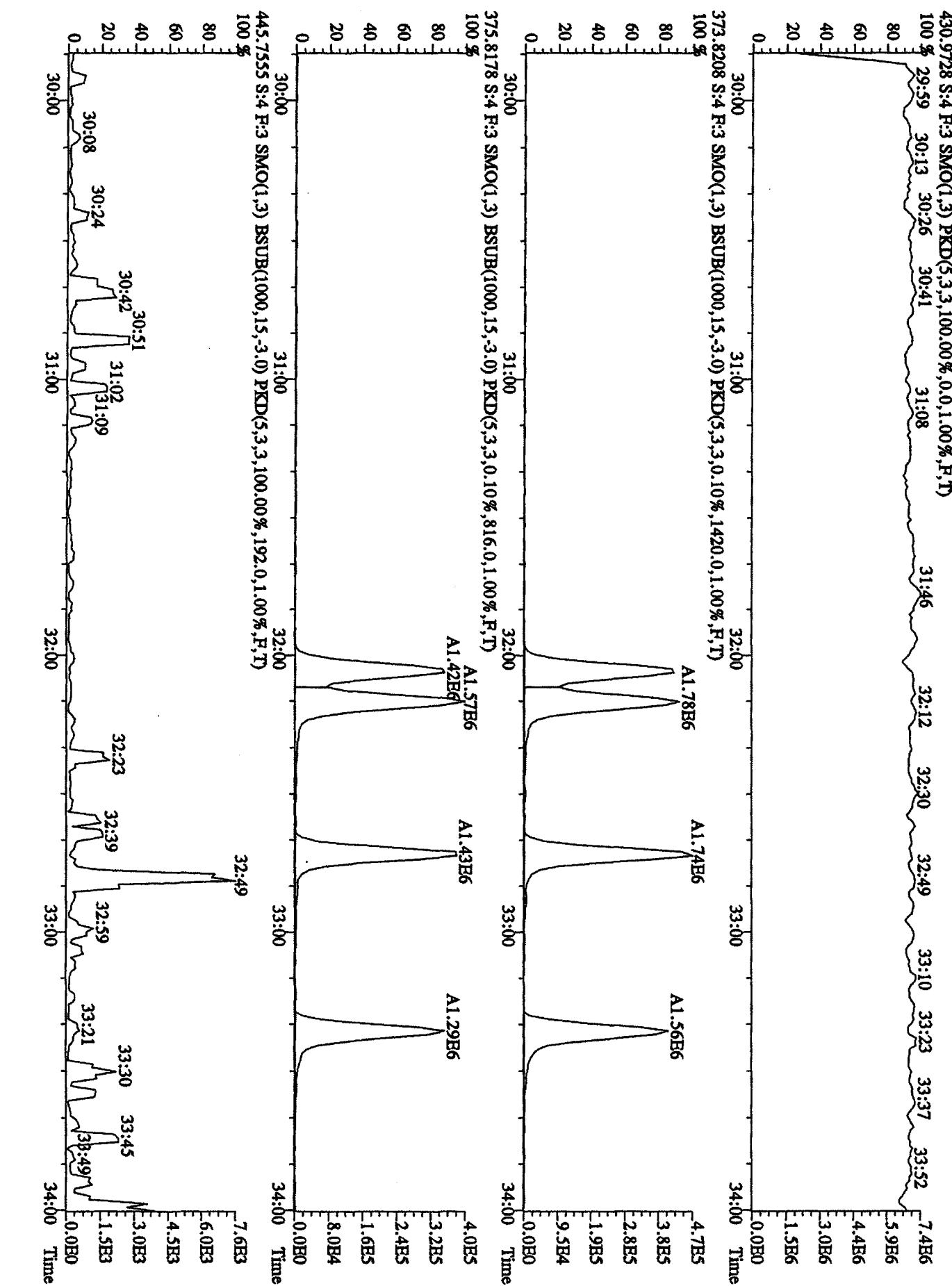
30:00 31:00 32:00 33:00 34:00 Time
445.7555 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,192.0,1.00%,F,T)
100 % 30:00 31:00 32:00 33:00 34:00 Time
80
60
40
20
0

4.7E5
3.8E5
2.8E5
1.9E5
9.5E4

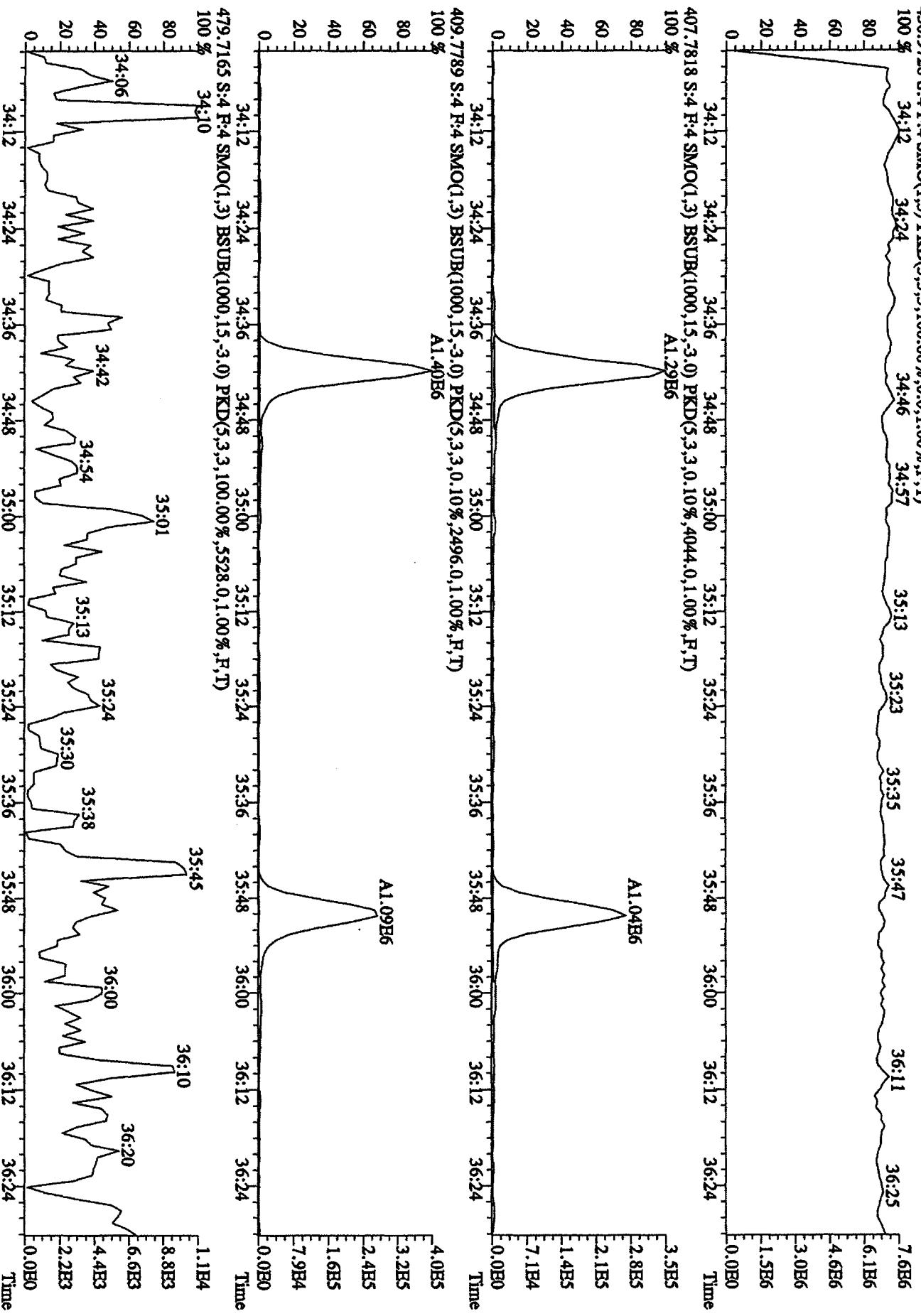
30:00 31:00 32:00 33:00 34:00 Time
30:00 30:08 30:24 30:42 30:51 31:02 31:09 32:23 32:39 32:59 33:21 33:30 33:45 33:49 34:00 Time
100 % 30:00 31:00 32:00 33:00 34:00 Time
80
60
40
20
0

4.7E5
3.8E5
2.8E5
1.9E5
9.5E4

30:00 31:00 32:00 33:00 34:00 Time
30:00 30:08 30:24 30:42 30:51 31:02 31:09 32:23 32:39 32:59 33:21 33:30 33:45 33:49 34:00 Time
100 % 30:00 31:00 32:00 33:00 34:00 Time
80
60
40
20
0



File:12AP104D5 #1-198 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaB
Sample#4 Text:ST0412B :CS-1.09DXN422 Exp:DIOXINRES8290A



File:12AP104D5 #1-191 Acq:12-APR-2010 10:48:47 GC HI+ Voltage SIR Autospec-UltimaB

Sample#4 Text:ST0412B :CS-1 09DXN422 Exp:DIOXINRES8290A

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

100 % 36.39 36.51 37.09 37.29 37.38 37.51 38.03 38.18 38.27 38.43 38.54 7.2E6

80 60 40 20 0

36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

441.7428 S:4 F:5 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,1720.0,1.00%,F,T)

100 % A1.72E6 3.9E5

80 60 40 20 0

36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

443.7399 S:4 F:5 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,1580.0,1.00%,F,T)

100 % A1.82E6 4.3E5

80 60 40 20 0

36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

513.6775 S:4 F:5 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,5,100.00%,152.0,1.00%,F,T)

100 % 37:43 2.7E3

80 60 40 20 0

36.40 36.59 37.02 37.12 37.25 37.35 38:08 38:20 38:43 39:00 Time

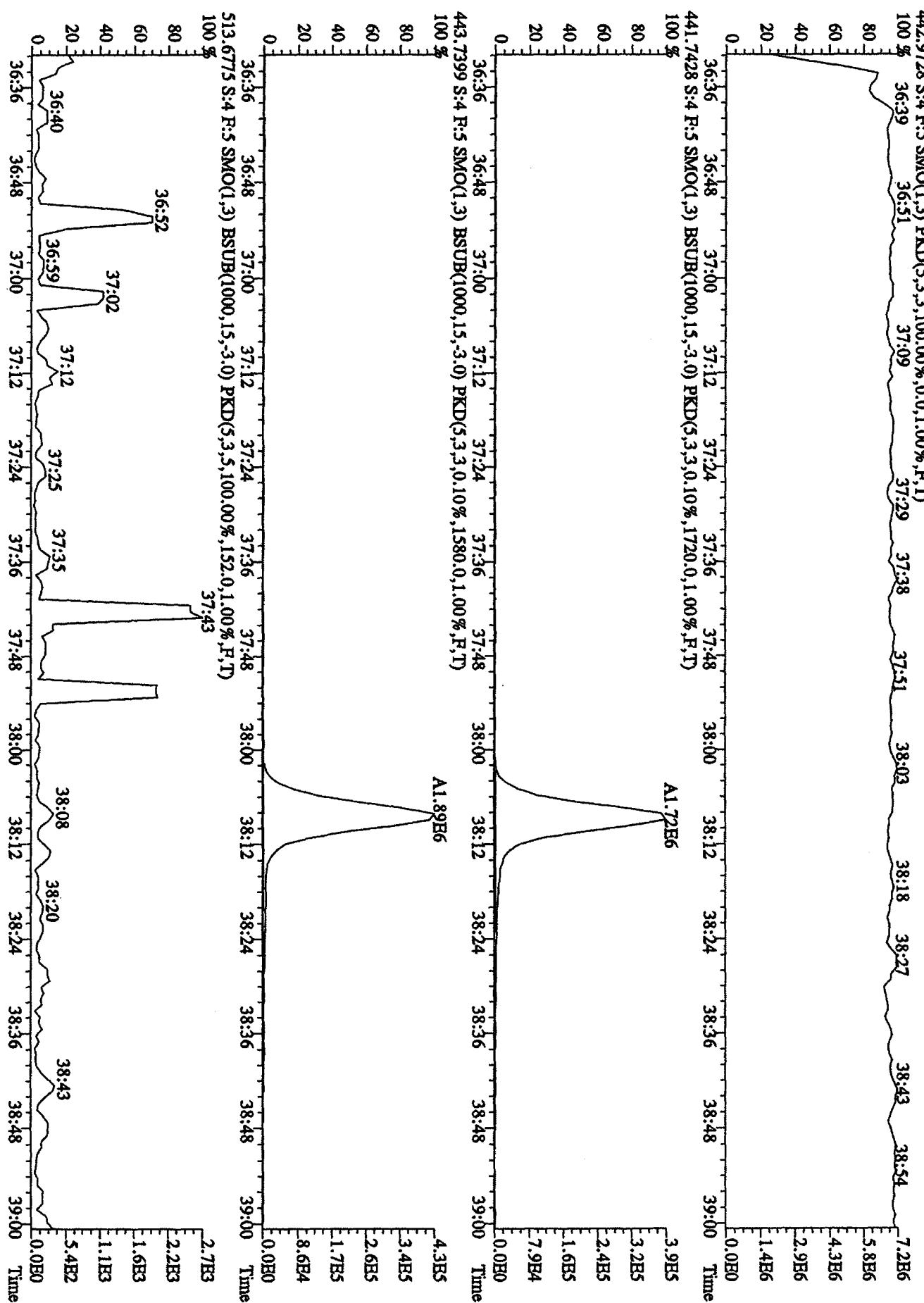
2.2E3

-1.6E3

-1.1E3

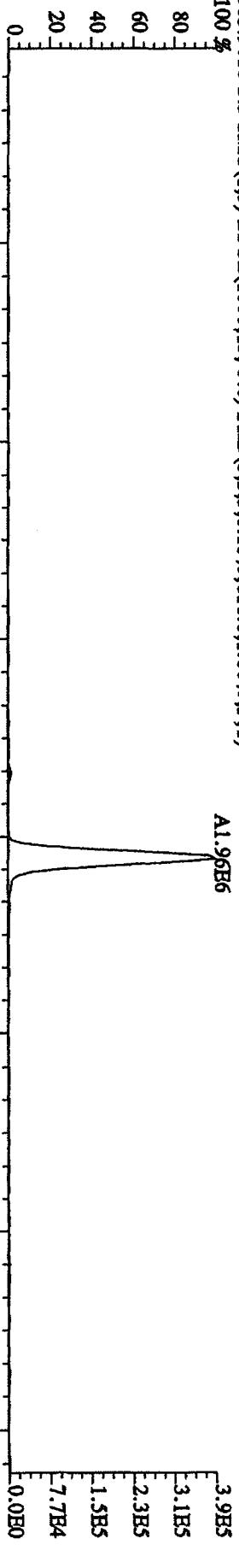
-5.4E2

0.0E0



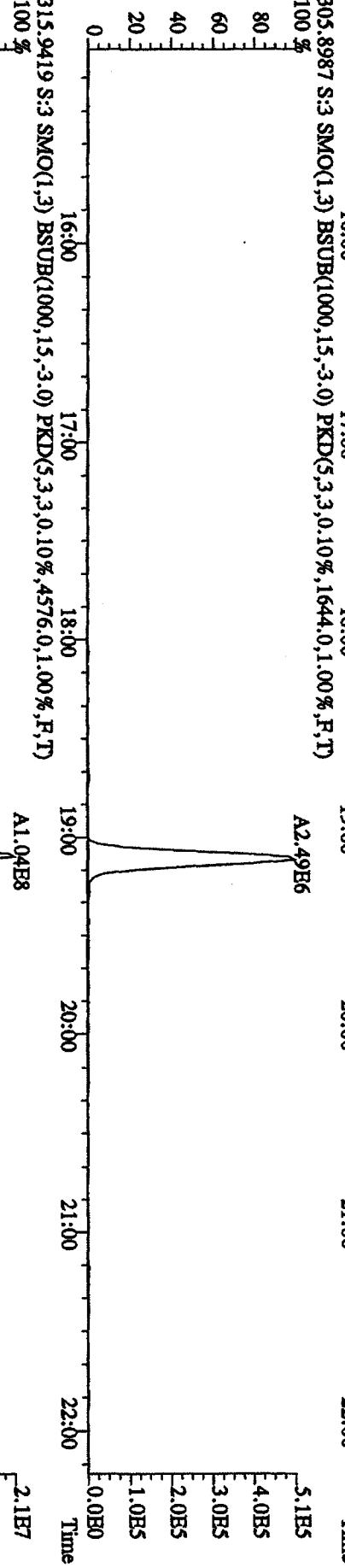
File:12AP104D5 #1-435 Acq12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaB
Sample#3 Test:ST0412A :CS-2 09DXN423 Exp:DIOXINRES8290A
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,616.0,1.00%,F,T)
100 %

A1.96E6



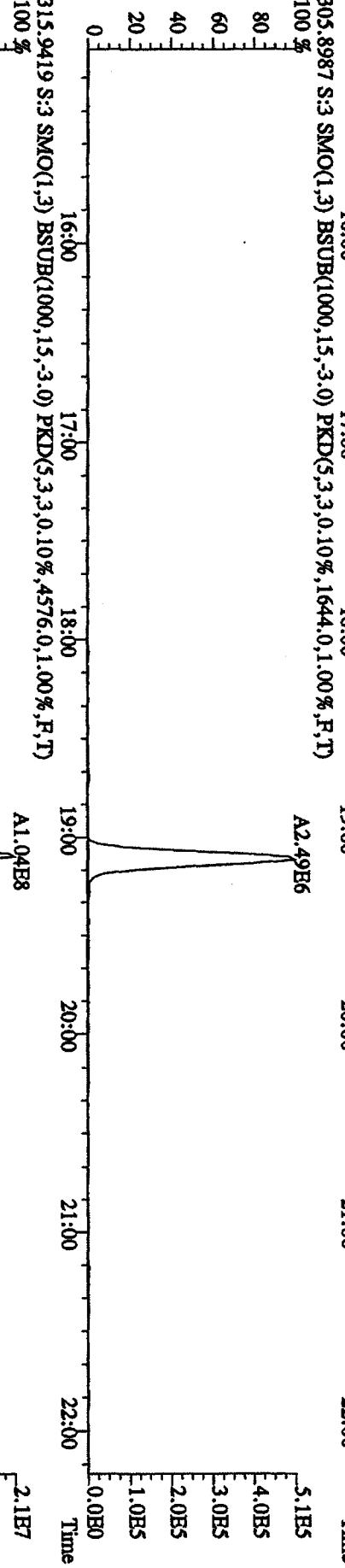
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1644.0,1.00%,F,T)
100 %

A2.49E6



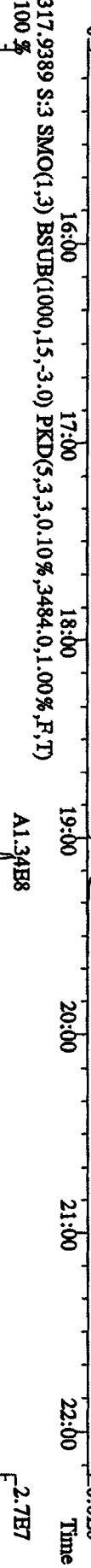
315.9419 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4576.0,1.00%,F,T)
100 %

A1.04E8



317.9389 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3484.0,1.00%,F,T)
100 %

A1.34E8



2.7E7

2.2E7

1.6E7

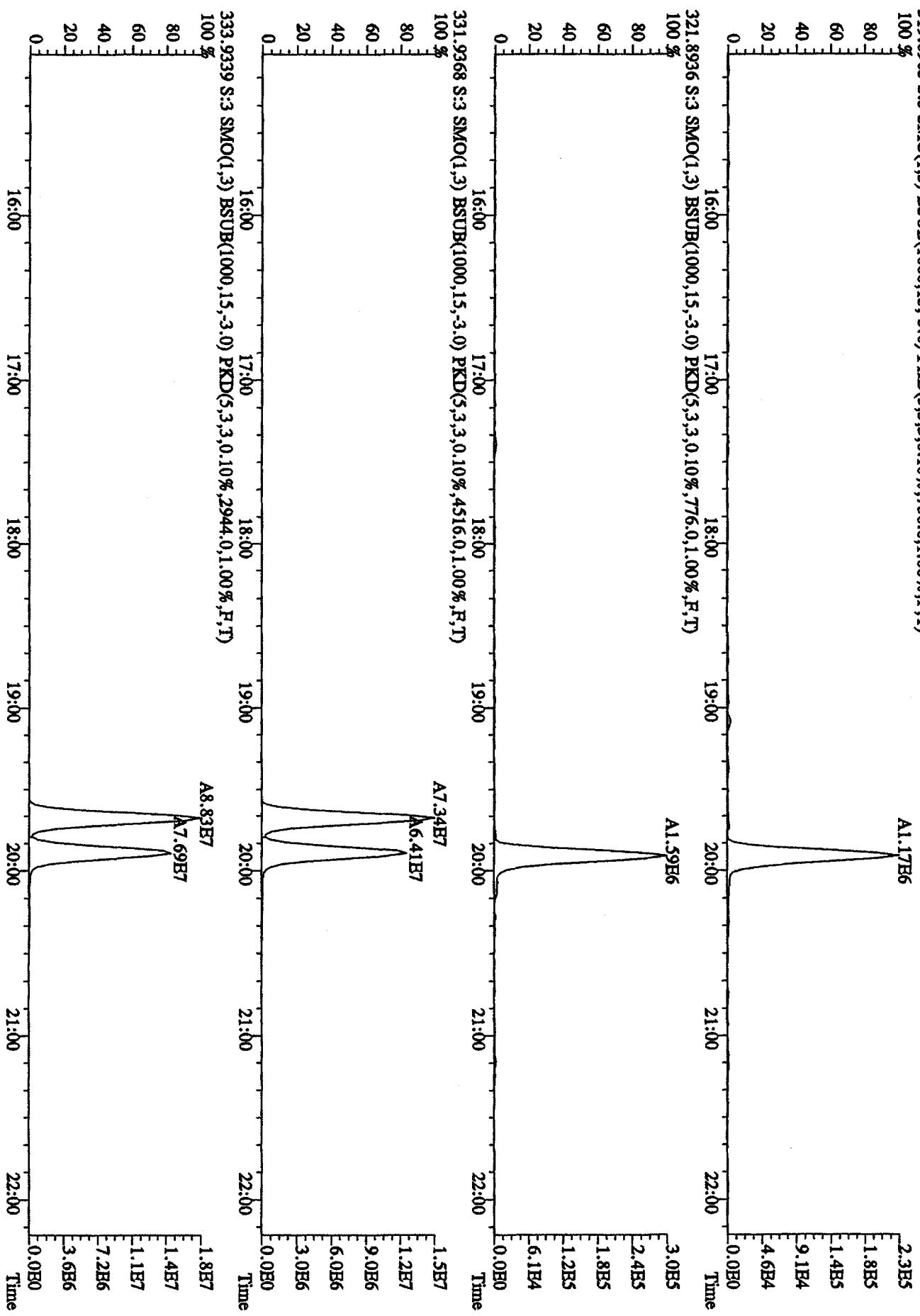
1.1E7

5.4E6

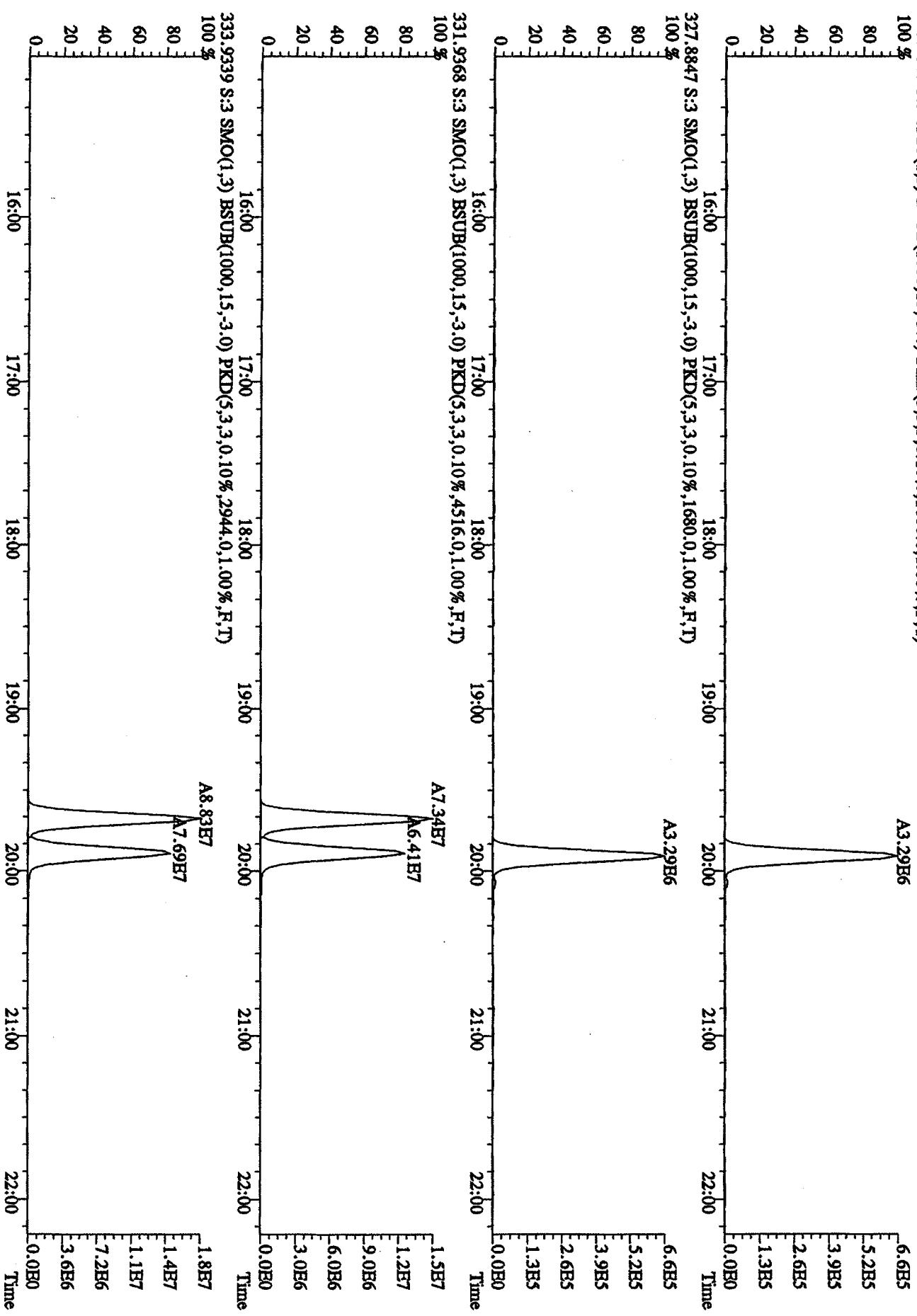
0.0E0

Time

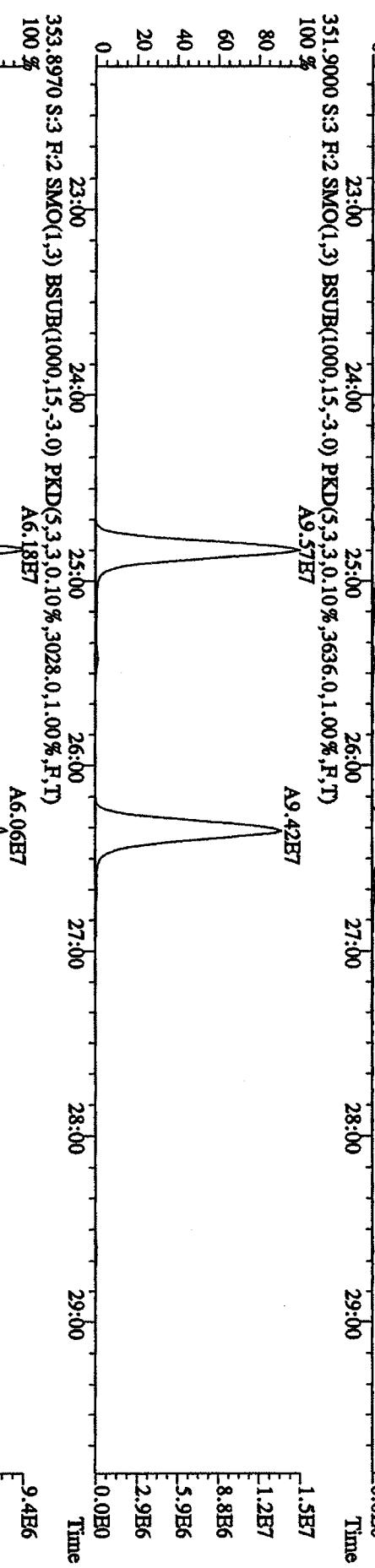
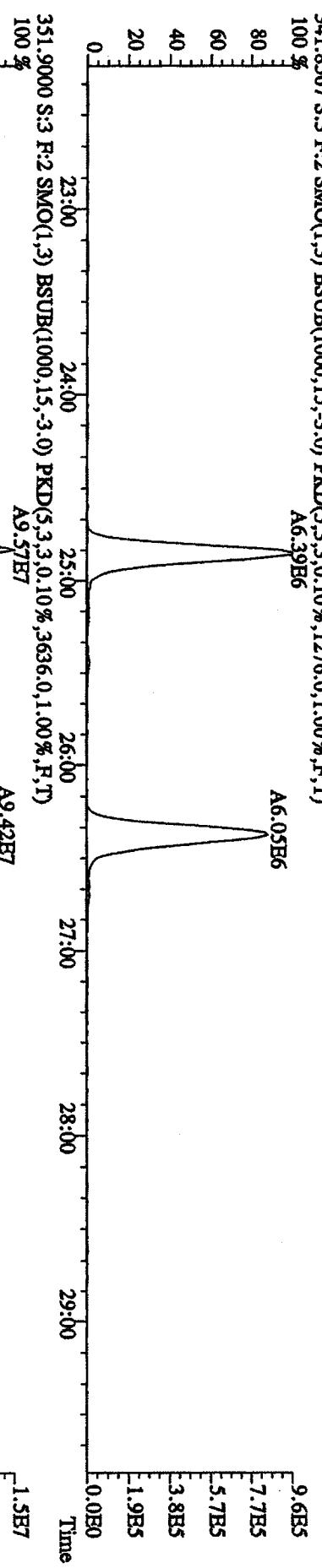
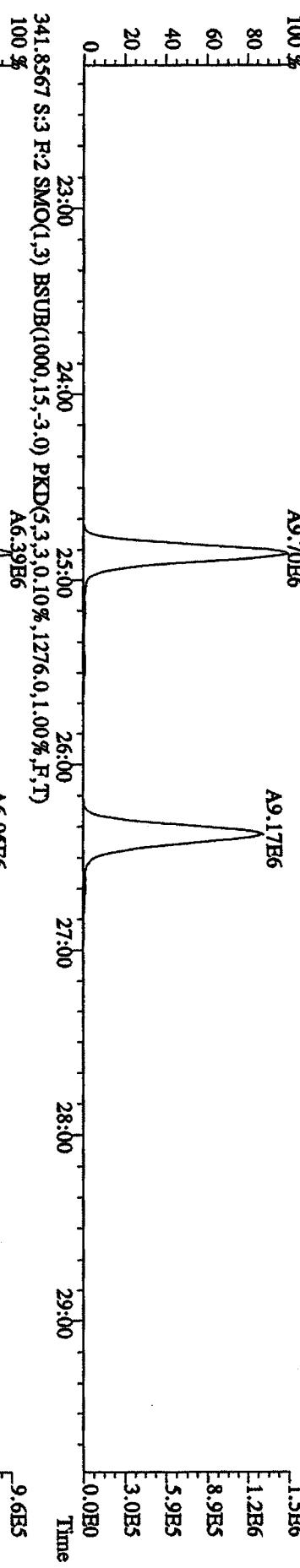
File:12AP104D5 #1-435 Acq:12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaB
Sample#:3 Text:ST0412A :CS-2 09DXN423 Exp:DIOXINRES8290A
319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,776.0,1.00%,R,T)
100 %



File:12APR104D5 #1435 Acq:12-APR-2010 10:04:44 GC HI+ Voltage SIR Autospec-UltimaB
Sample#:3 Text:ST0412A :CS2.09DXN423 Exp:DIOXINRHS8290A
327.8847 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1680.0,1.00%,F,T)
331.9368 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4516.0,1.00%,F,T)



File:12AP104D5 #1-605 Acq:12-APR-2010 10:04:44 GC El+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:ST0412A Exp:DIOXINRES290A
 339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,676.0,1.00%,F,T)
 100 % A9.70E6 1.5E6
 80 1.2E6
 60 8.9E5
 40 5.9E5
 20 3.0E5
 0 0.0E0



File:12AP104D5 #1-605 Acq:12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-Ultimate

Sample#3 Text:ST0412A .ICS-2 09DXN423 Exp:DIOXINRBS8290A

355.8546 S:3 R:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,832.0,1.00%,R,T)

A5.91E6

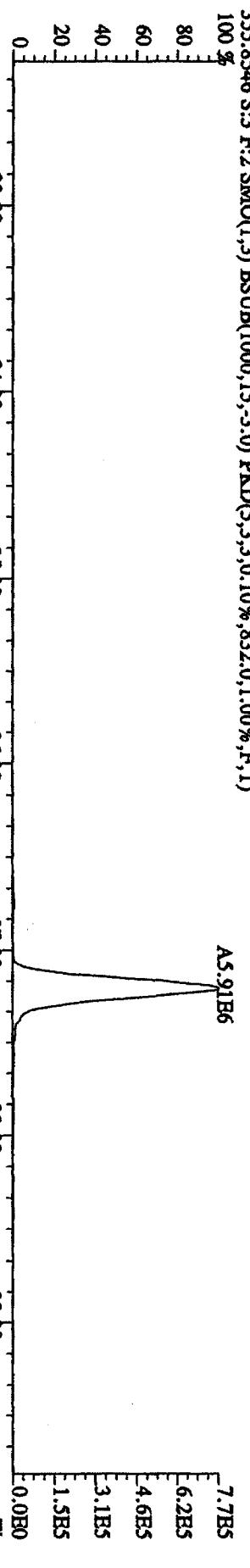
7.7E5

6.2E5

4.6E5

3.1E5

1.5E5



G0D130519

TestAmerica West Sacramento (916) 373 - 5600

234 of 314

A3.79E6

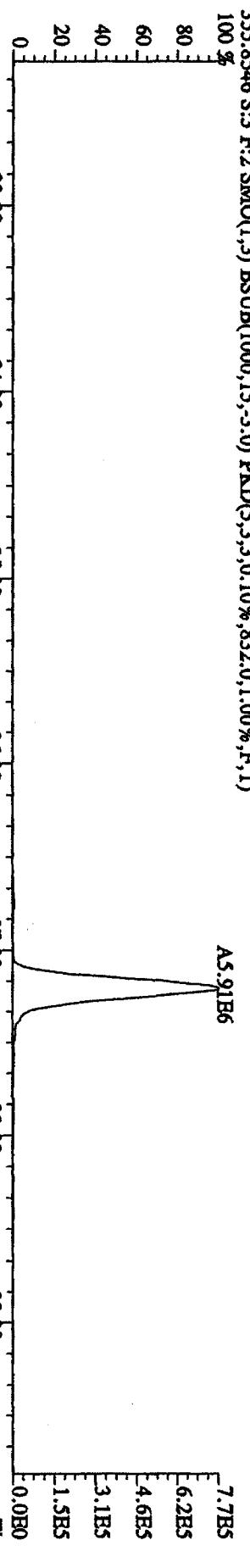
8.3E6

6.6E6

5.0E6

3.3E6

1.7E6



A6.32E7

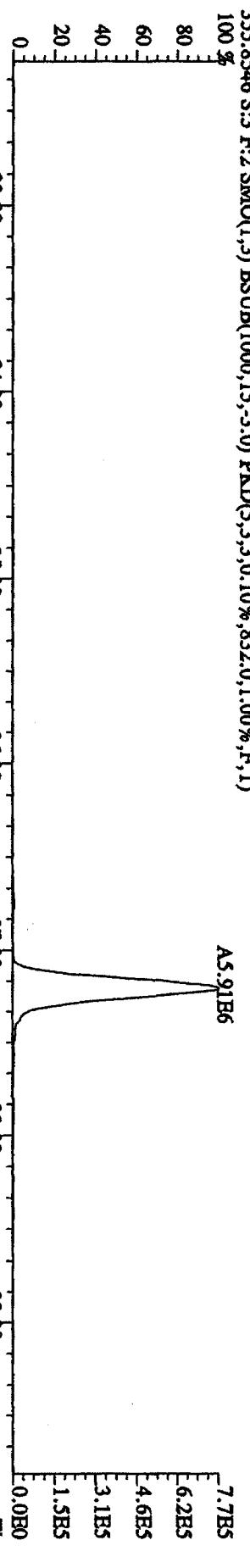
5.4E6

4.3E6

3.2E6

2.1E6

1.1E6



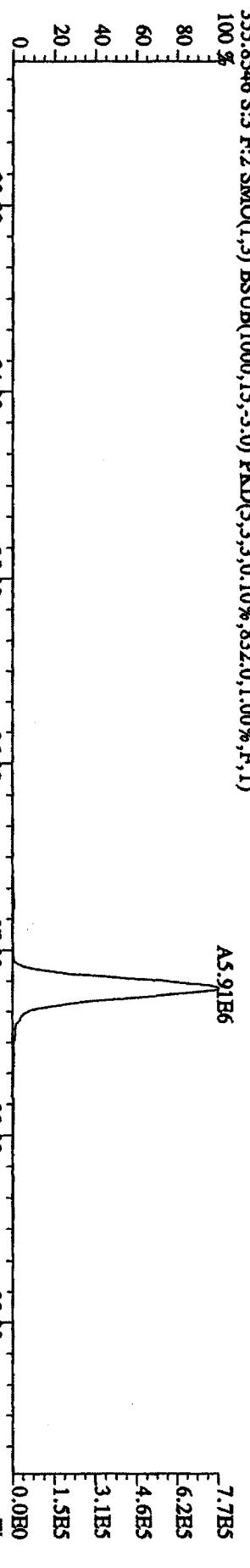
A4.12E7

4.3E6

3.2E6

2.1E6

1.1E6



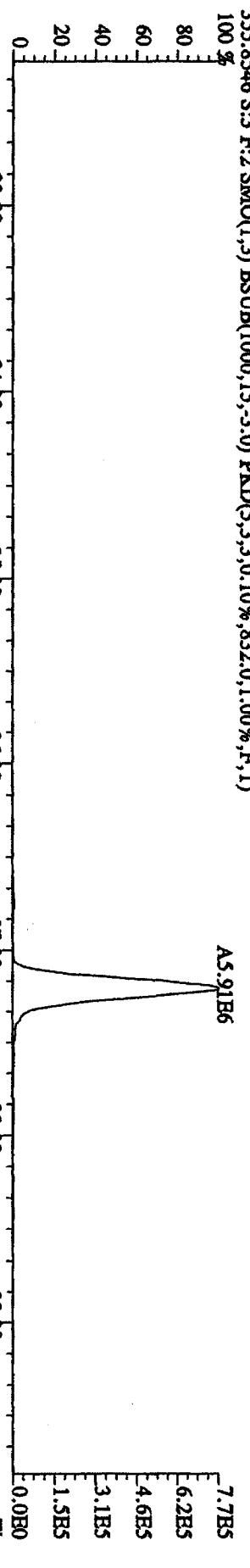
5.4E6

4.3E6

3.2E6

2.1E6

1.1E6



File:12AP104D5 #1-317 Acq:12-APR-2010 10:04:44 GC H+ Voltage SIR Autospec-UltimaB

Sample#: Text:ST0412A :CS-2.09DXN423 Exp:DOXINRES8290A

373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,808.0,1.00%,F,T)

100 %
80
60
40
20
0

A8.57E6

A7.47E6

A6.46E6

2.1E6

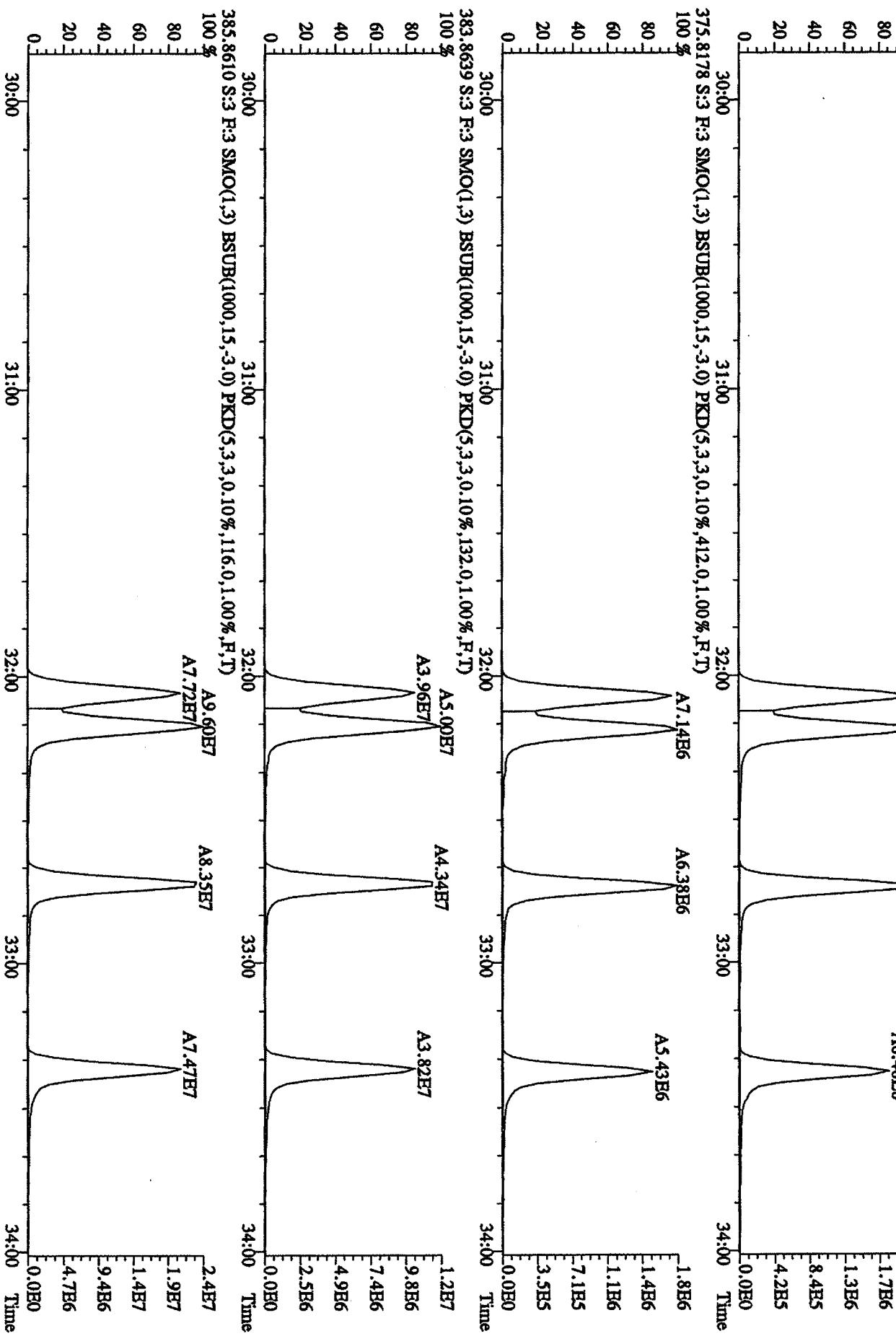
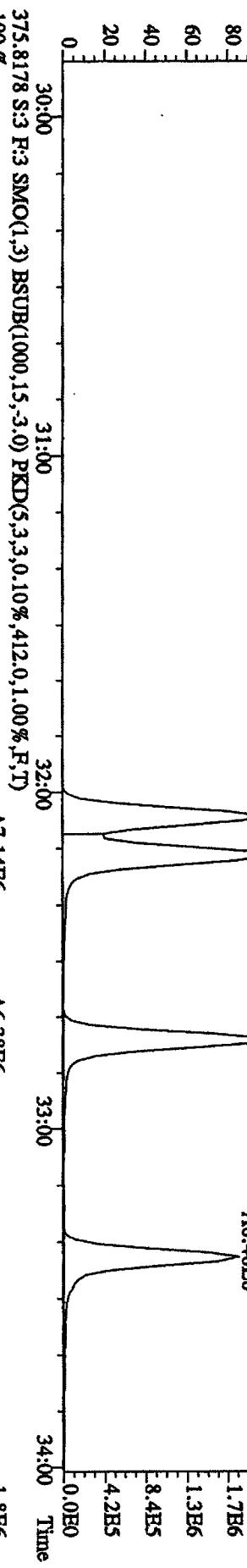
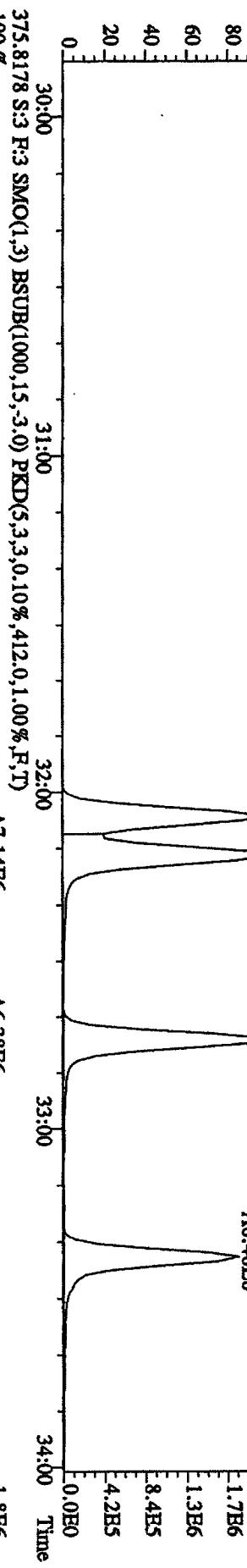
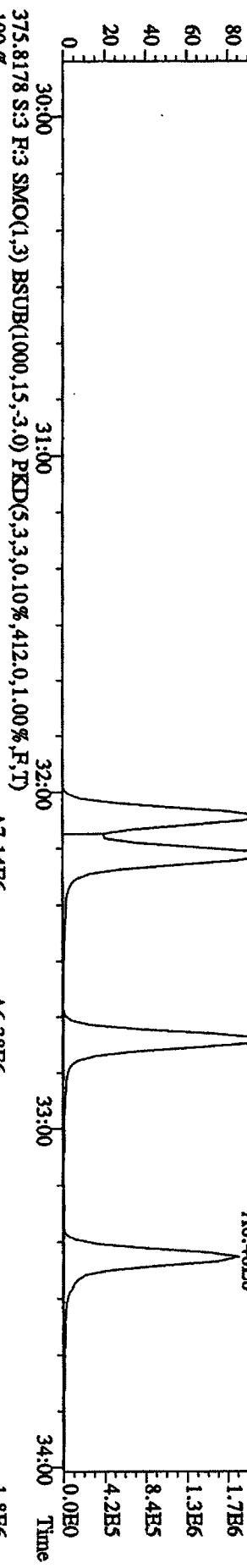
1.7E6

1.3E6

8.4E5

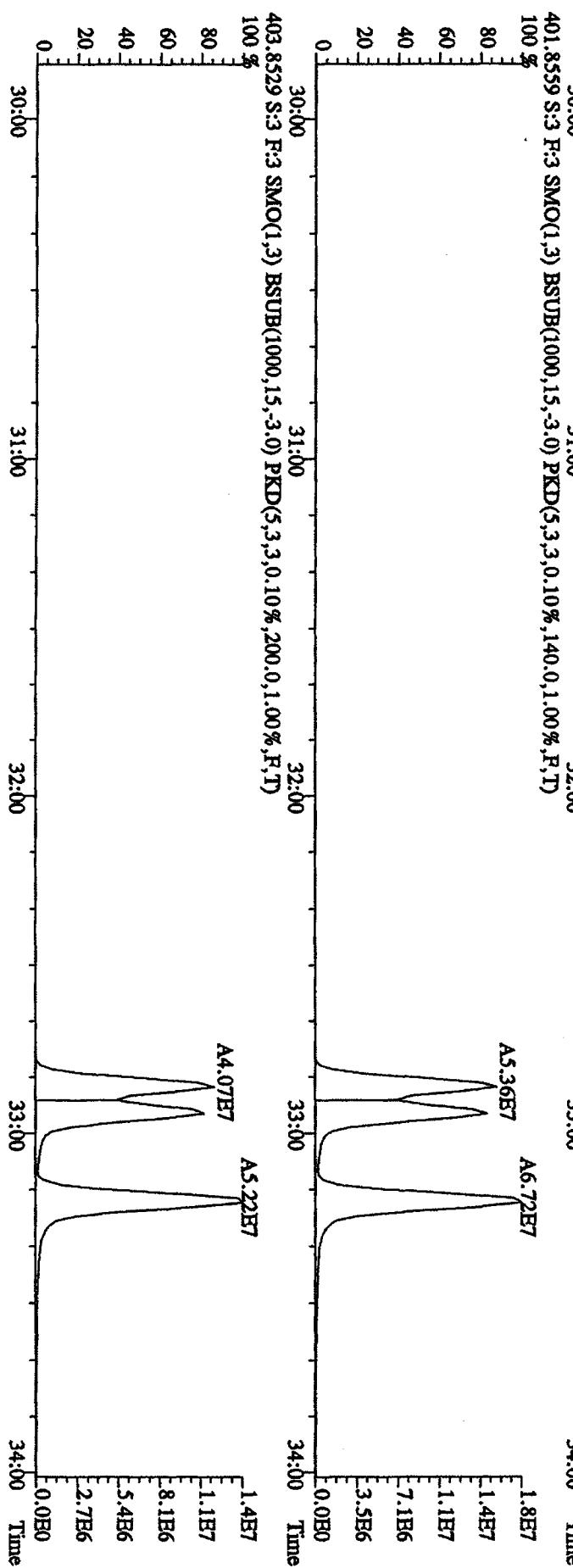
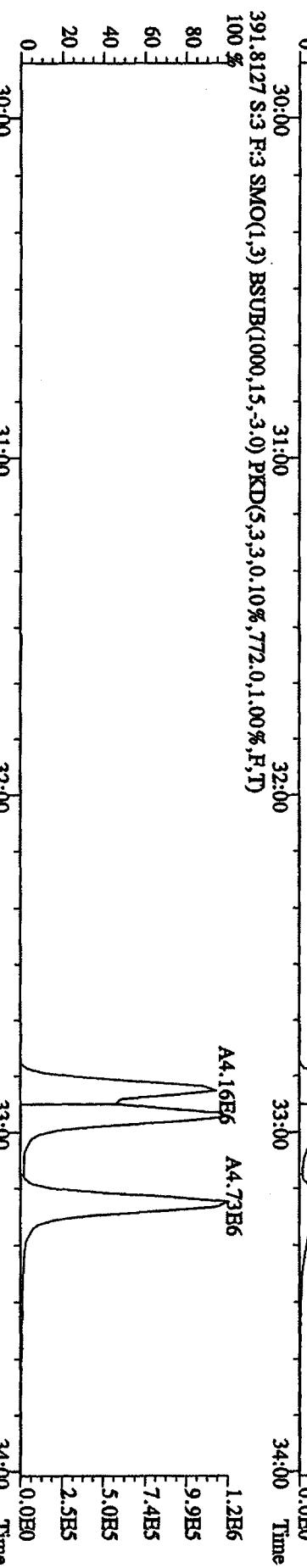
4.2E5

0.0E0



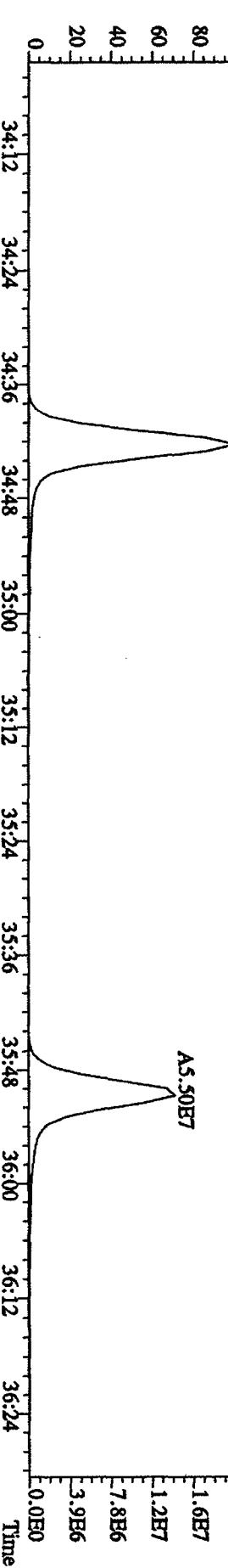
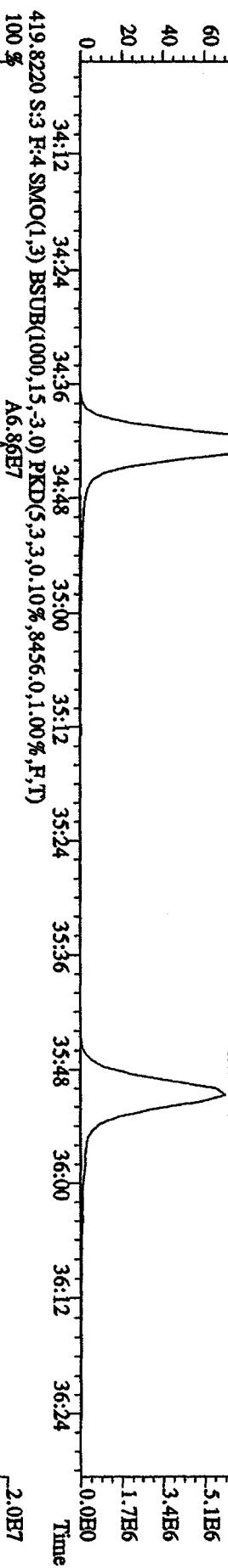
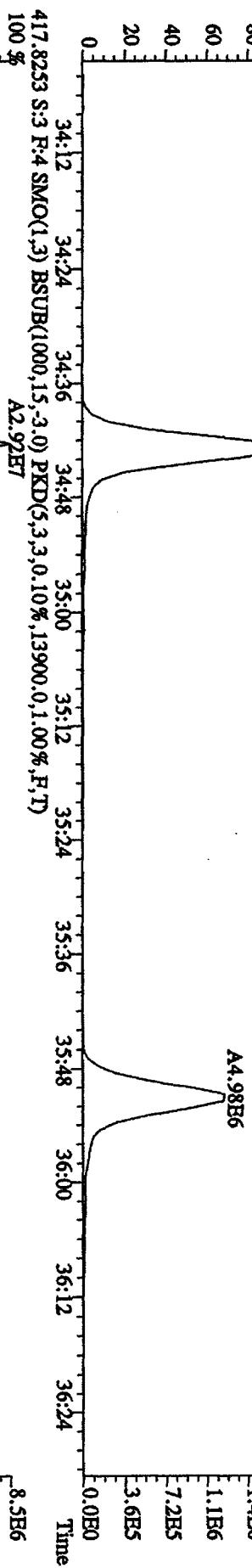
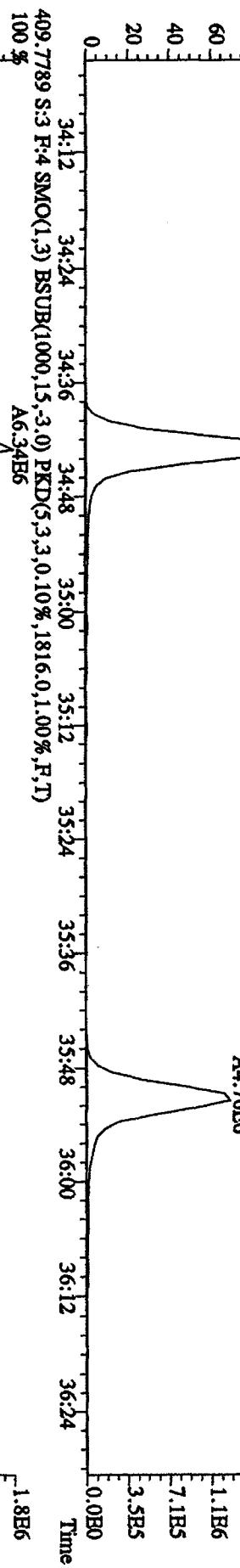
Sample#3 Test:ST0412A :CS-2 09DXN423 Exp:DIOXINRES8290A

389.8157 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,532.0,1.00%,F,T)

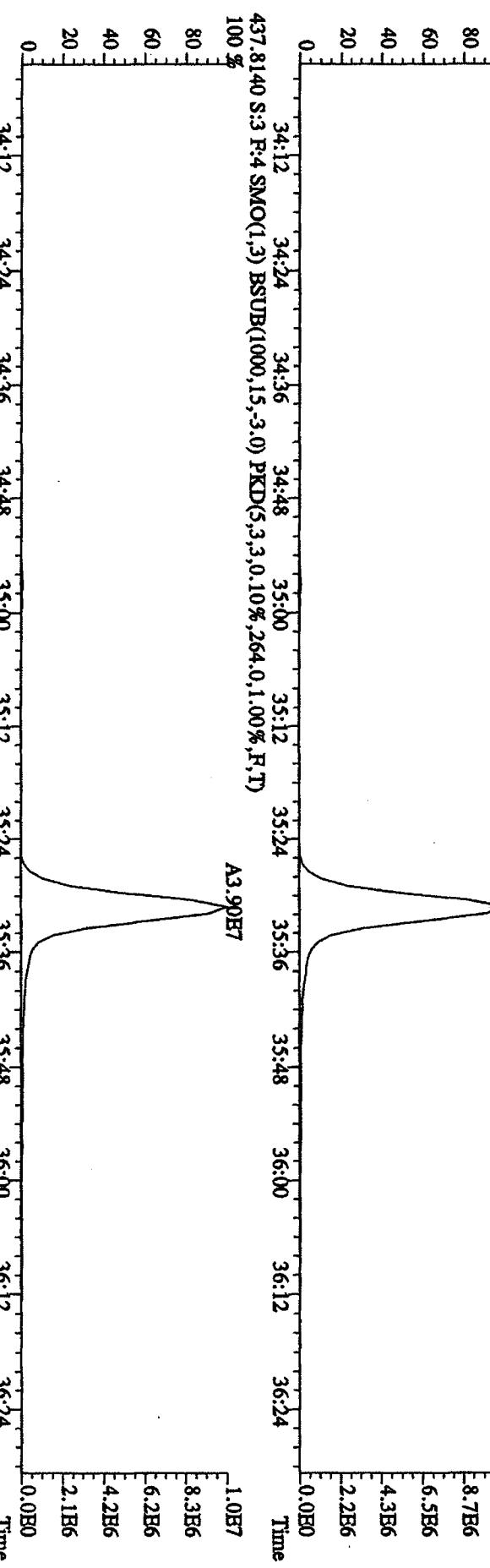
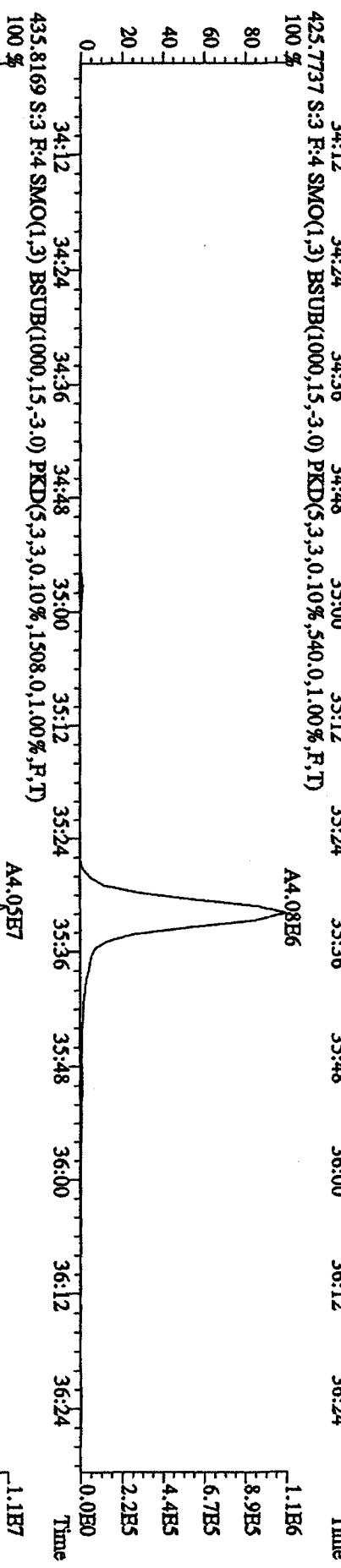
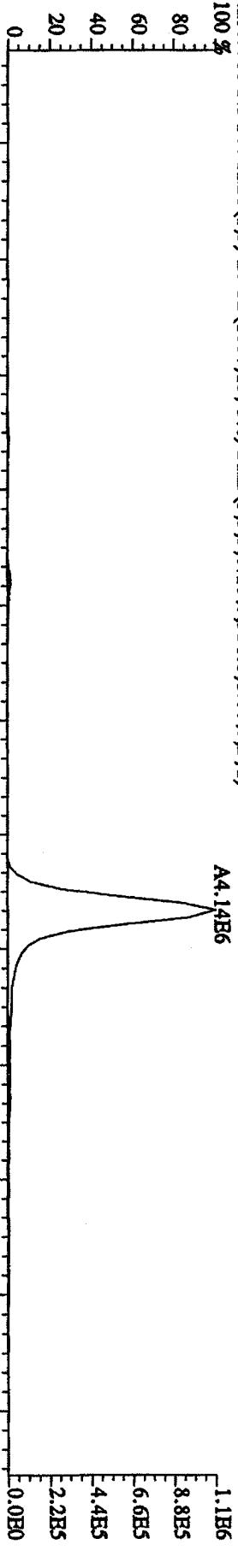


File:12AP104D5 #1-198 Acq:12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST0412A :CS-2 09DXN423 Exp:DIOXINRHS8290A
407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5260.0,1.00%,F,T)
100 %
A6.17E6

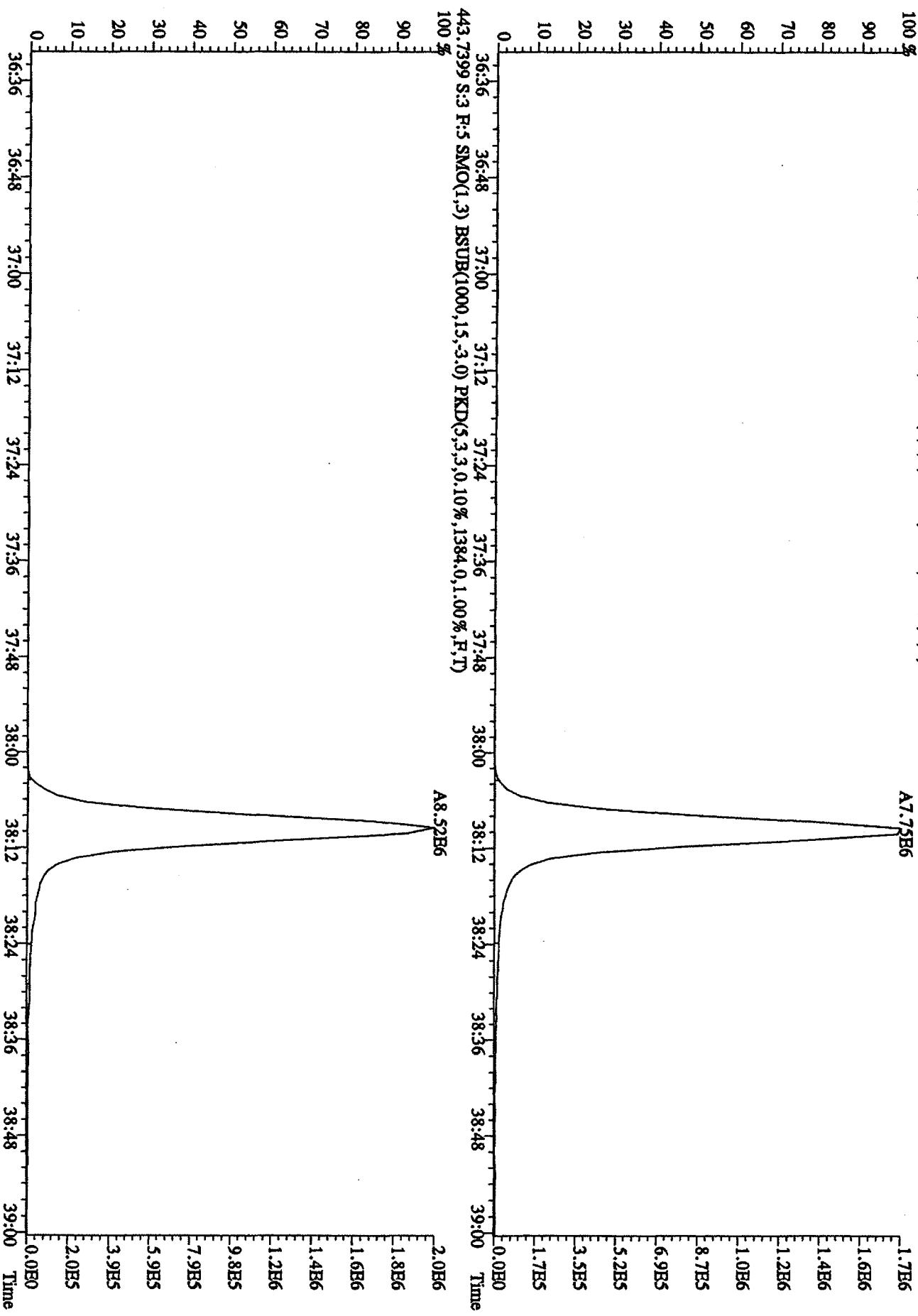
1.8E6
1.4E6
1.1E6
7.1E5
3.5E5



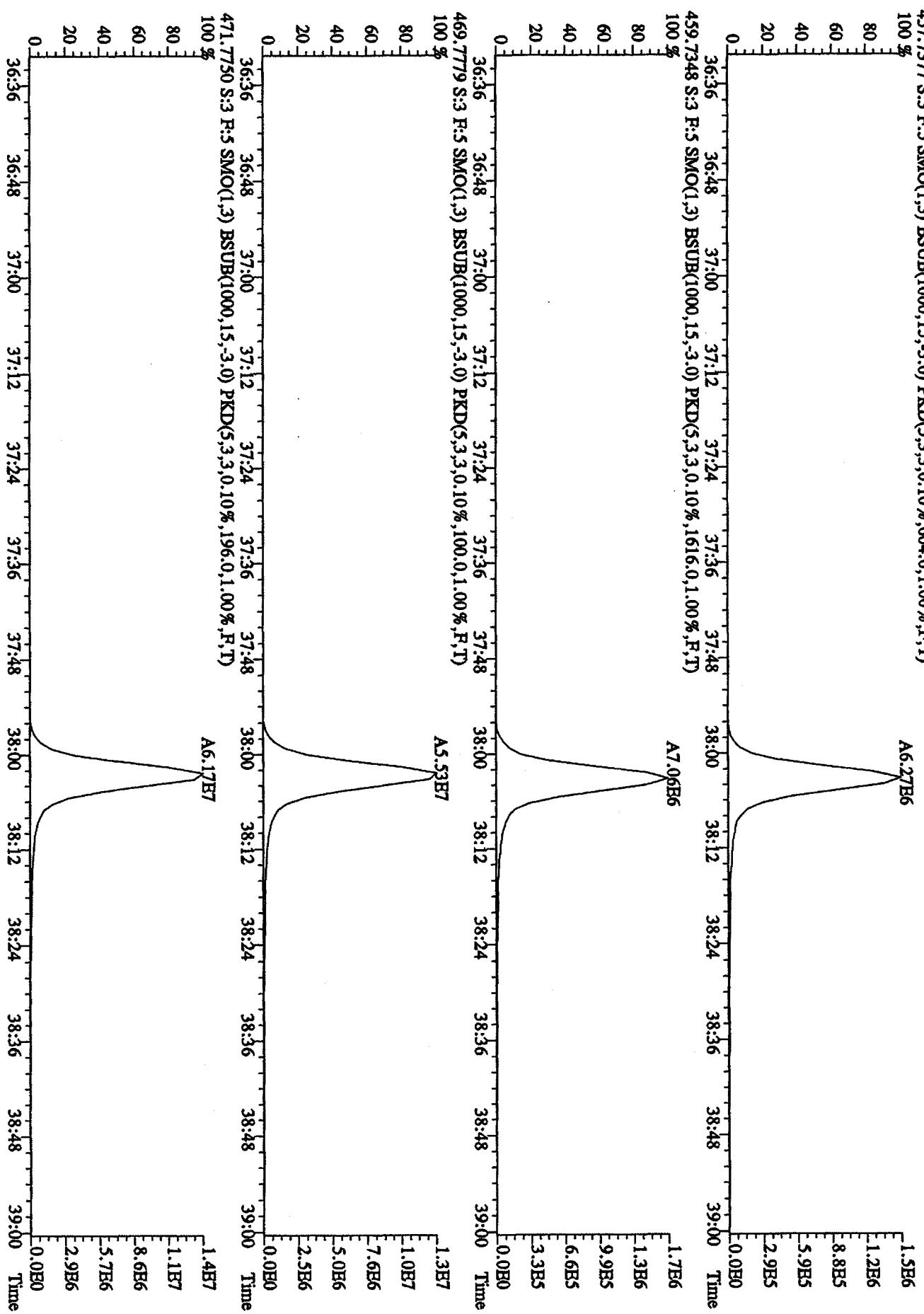
File:12AP104D5 #1-198 Acq:12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 Text:ST10412A :CS-2.09DXN423 Exp:DIOXINRBS8290A
 423.7766 S:3 R:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,540.0,1.00%,F,T)
 100 %



File:12AP104D5 #1-190 Acq:12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:ST0412A :CS-2.09DXIN423 Exp:DIOXINRES290A
 441.7428 S:3 R:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,840,0,1.00%,R,T)



File:12AP104D5 #1-190 Acq:12-APR-2010 10:04:44 GC HI+ Voltage SIR Autospec-UltimaE
Sample#:3 Text:ST0412A :CS-2.09DXN423 Exp:DIOXINREFS290A
457.7377 S:3 R:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,604.0,1.00%,F,T)
100 %



File:12AP104D5 #1-435 Acq:12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaB

Sample#3 Text:ST0412A :CS-2 09DXN423 Exp:DIOXINRRES8290A

354.9792 S:3 SMO(1,3) PKD(5,3,3,100.00%,0,0.1,0.0%,F,T)

100 % 15:12 16:00 16:42 17:09 17:51 18:29 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 6.1E6

80 % 16:00 17:00 18:00 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 4.9E6

60 % 16:00 17:00 18:00 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 3.7E6

40 % 16:00 17:00 18:00 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 2.4E6

20 % 16:00 17:00 18:00 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 1.2E6

0 % 16:00 17:00 18:00 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 0.0E0

303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,616.0,1.00%,F,T)

Al.96E6

100 % 16:00 17:00 18:00 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 3.9E5

80 % 16:00 17:00 18:00 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 3.1E5

60 % 16:00 17:00 18:00 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 2.3E5

40 % 16:00 17:00 18:00 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 1.5E5

20 % 16:00 17:00 18:00 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 7.7E4

0 % 16:00 17:00 18:00 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 0.0E0

305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1644.0,1.00%,F,T)

A2.49E6

100 % 16:00 17:00 18:00 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 5.1E5

80 % 16:00 17:00 18:00 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 4.0E5

60 % 16:00 17:00 18:00 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 3.0E5

40 % 16:00 17:00 18:00 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 2.0E5

20 % 16:00 17:00 18:00 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 1.0E5

375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,132.0,1.00%,F,T)

18:45

100 % 16:00 17:00 18:00 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 0.0E0

80 % 16:00 17:00 18:00 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 2.2E3

60 % 16:00 17:00 18:00 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 1.8E3

40 % 16:00 17:00 18:00 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 1.3E3

20 % 16:00 17:00 18:00 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 8.8E2

0 % 16:00 17:00 18:00 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 4.4E2

409.7974 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,96.0,1.00%,F,T)

19:36

100 % 15:16 15:51 16:24 16:44 17:32 18:35 18:57 19:07 19:53 20:17 20:43 21:07 21:36 22:00 2.6E3

80 % 15:16 15:51 16:24 16:44 17:32 18:35 18:57 19:07 19:53 20:17 20:43 21:07 21:36 22:00 2.1E3

60 % 15:16 15:51 16:24 16:44 17:32 18:35 18:57 19:07 19:53 20:17 20:43 21:07 21:36 22:00 1.6E3

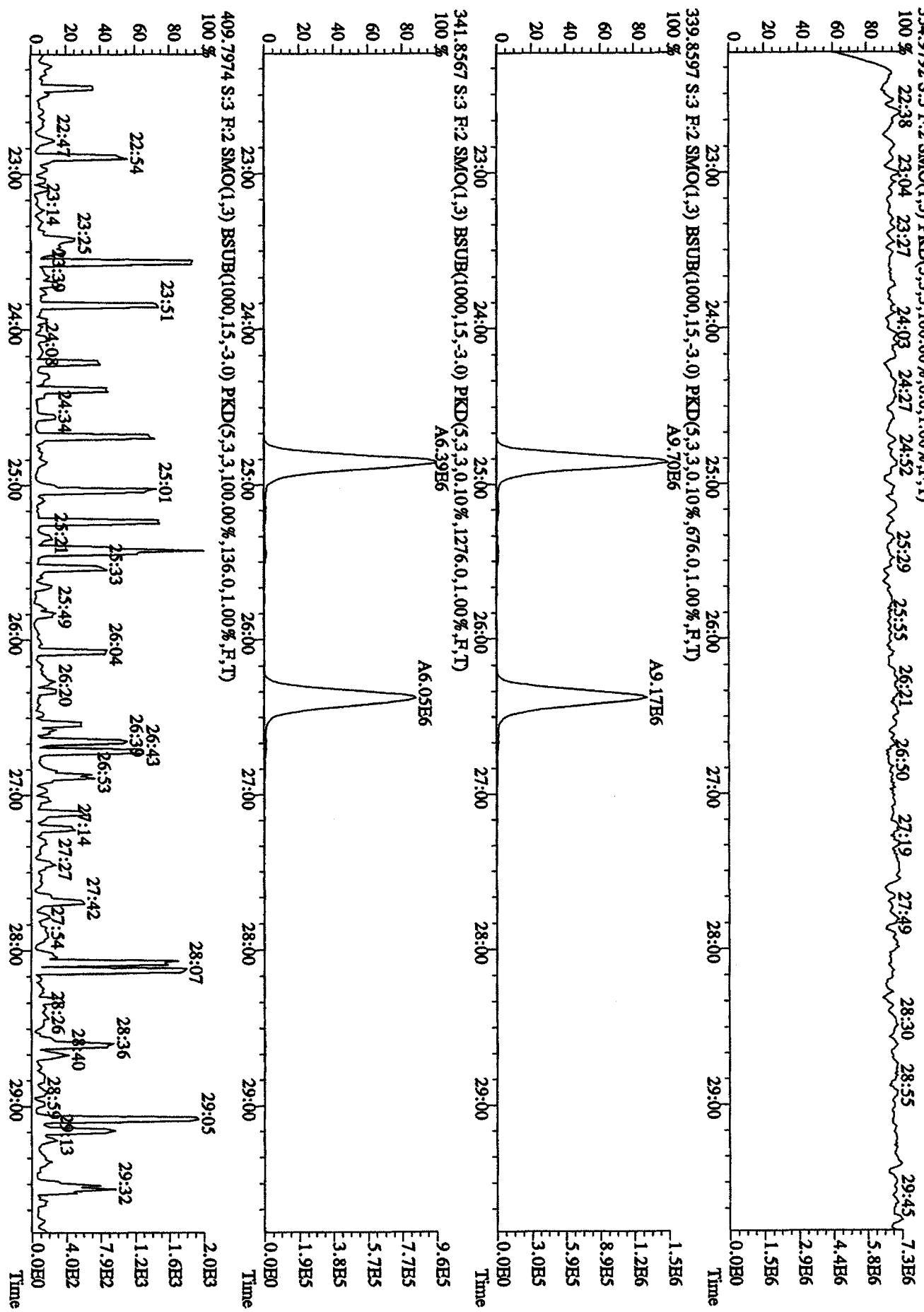
40 % 15:16 15:51 16:24 16:44 17:32 18:35 18:57 19:07 19:53 20:17 20:43 21:07 21:36 22:00 5.2E2

20 % 15:16 15:51 16:24 16:44 17:32 18:35 18:57 19:07 19:53 20:17 20:43 21:07 21:36 22:00 1.0E3

0 % 15:16 15:51 16:24 16:44 17:32 18:35 18:57 19:07 19:53 20:17 20:43 21:07 21:36 22:00 0.0E0

G0D130519

File:12AP104D5 #1-605 Acq:12-APR-2010 10:04:44 GC El+ Voltage SIR Autospec-UltimaB
Sample#3 Text:ST0412A :CS-2 09DXN423 Exp:DIOXINRES8290A

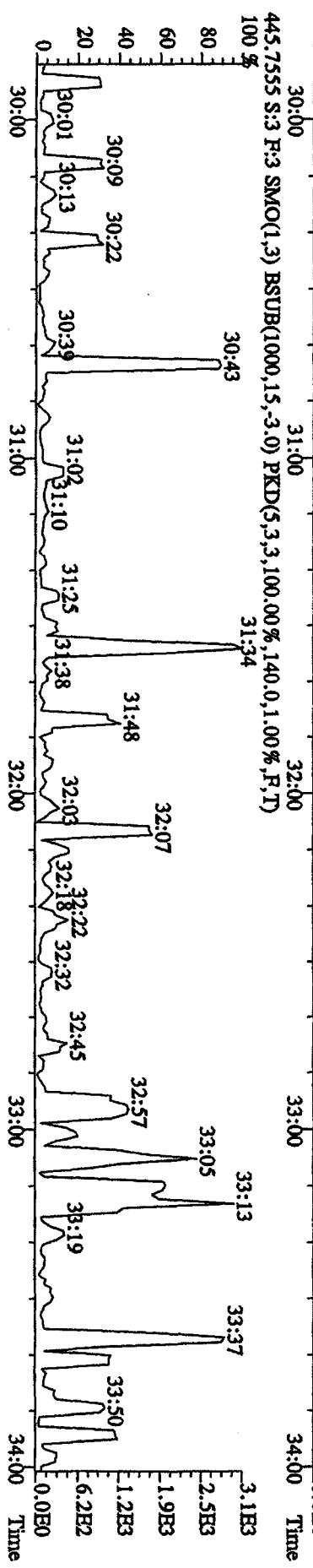
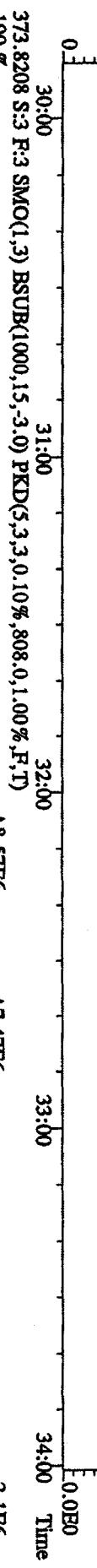


File:12AP104D5 #1-317 Acq:12-APR-2010 10:04:44 GC HI+ Voltage SIR Autospec-UltimaB
Sample#3 Text:ST0412A :CS-2.09DXN423 Exp:DIOXINRES8290A

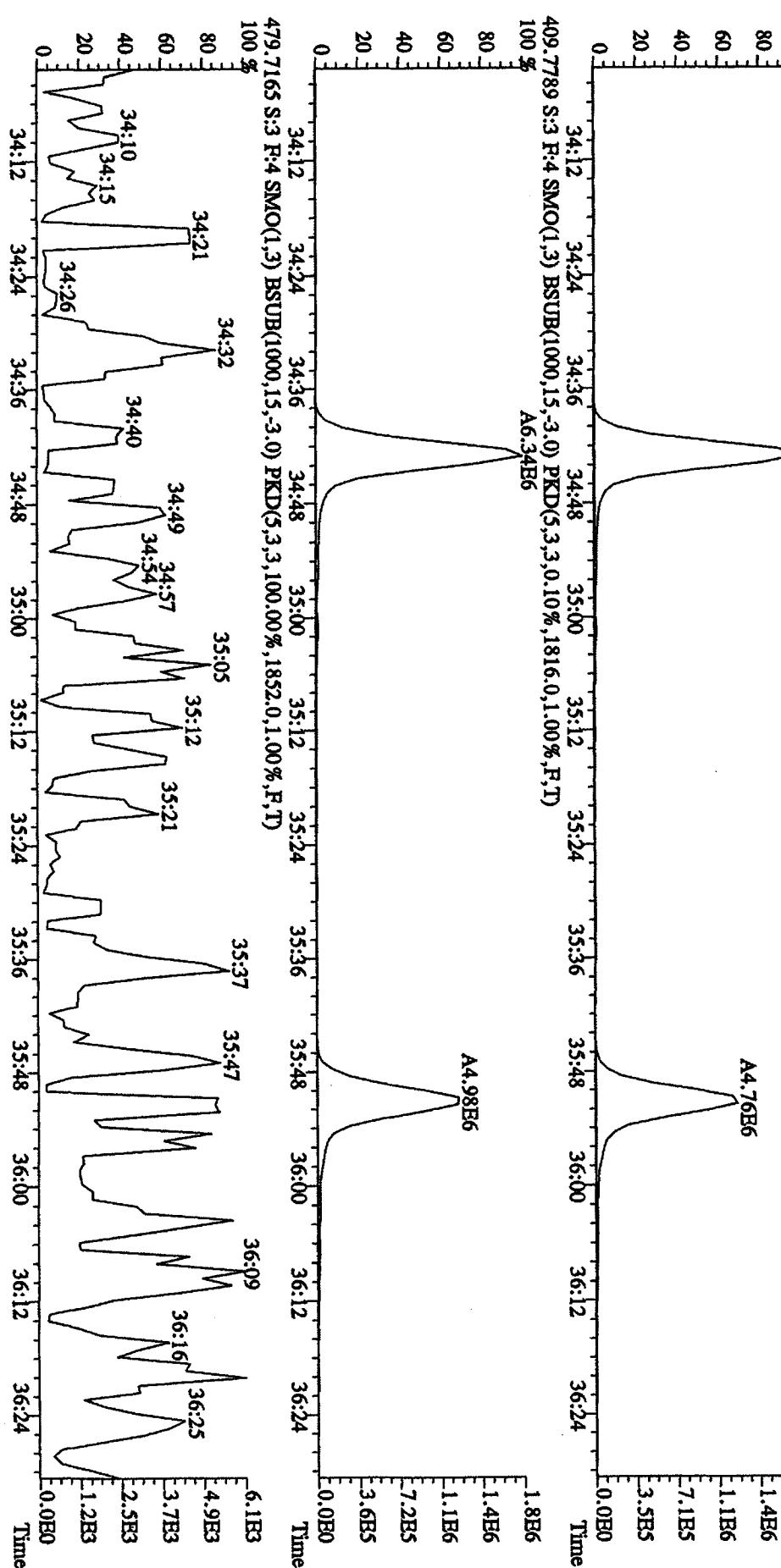
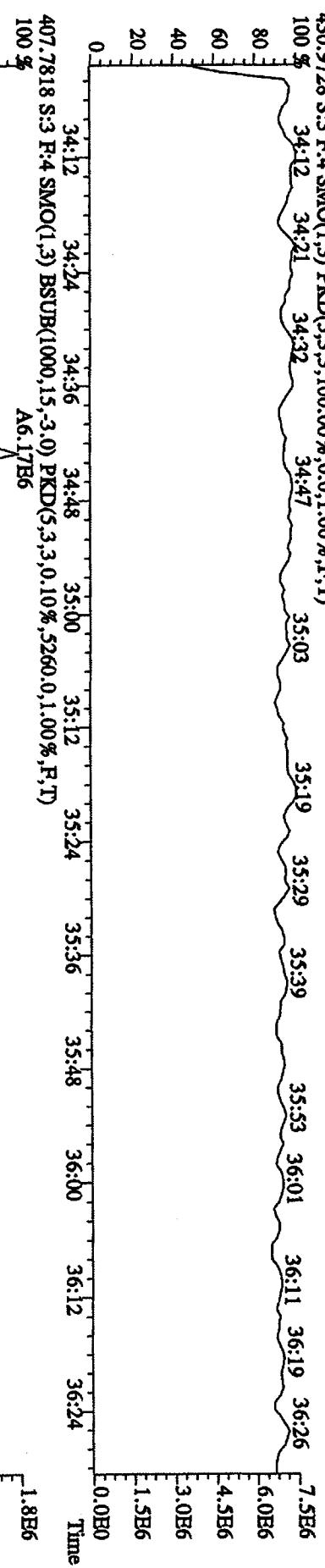
430.9728 S:3 F:3 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)

100 % 30:07 30:31 30:47 31:10 31:25 31:32 32:05 32:25 32:44 33:13 33:40 33:53

80 7.1E6
60 5.6E6
40 4.2E6
20 2.8E6
0 1.4E6



File:12AP104D5 #1-198 Acq:12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaB
Sample#3 Text:ST0412A .CS-2.09DXN423 Exp:DIOXINRRES290A
430.9728 S:3 R:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
100 %



File:12AP104D5 #1-190 Acq:12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaB

Sample#3 Texr:S10412A :CS-2.09DDKN423 Exp:DIOXINRRES8290A

442.9728 S:3 F:5 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)

100 % 36:46 36:56 37:09 37:21 37:32 37:45 38:03 38:16 38:28 38:38 38:48 38:59 7.5E6

80 36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,840.0,1.00%,F,T)

100 % A7.75E6 1.7E6

80 1.4E6

60 1.0E6

40 6.9E5

20 3.5E5

0 36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

443.7399 S:3 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1384.0,1.00%,F,T)

A8.52E6

100 % 2.0E6

80 1.6E6

60 1.2E6

40 7.9E5

20 3.9E5

0 36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

513.6775 S:3 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,5,100.00%,200.0,1.00%,F,T)

2.0E6

100 % 1.6E6

80 1.2E6

60 7.9E5

40 3.9E5

20 6.8E2

0 36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

513.6775 S:3 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,5,100.00%,200.0,1.00%,F,T)

36:49 37:06 37:18 37:24 37:38 37:49 38:05 38:19 37:53 37:28 37:33 37:43 38:33 38:43 38:56

100 % 1.4E2

80 5.5E2

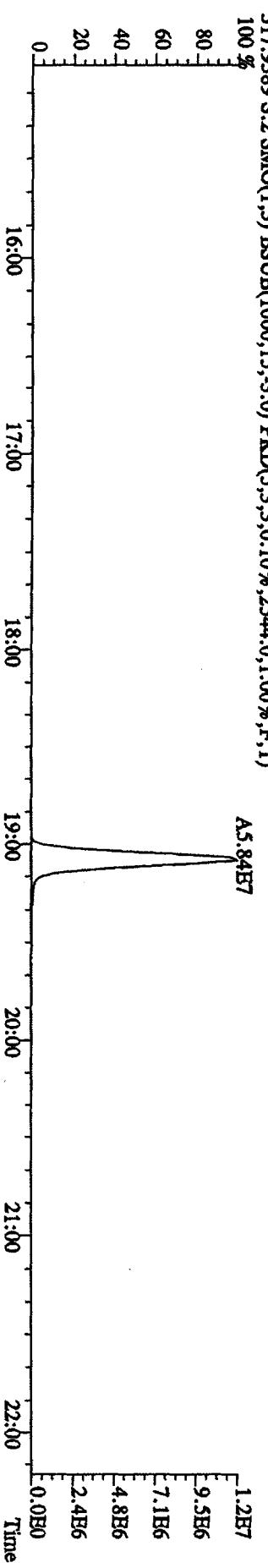
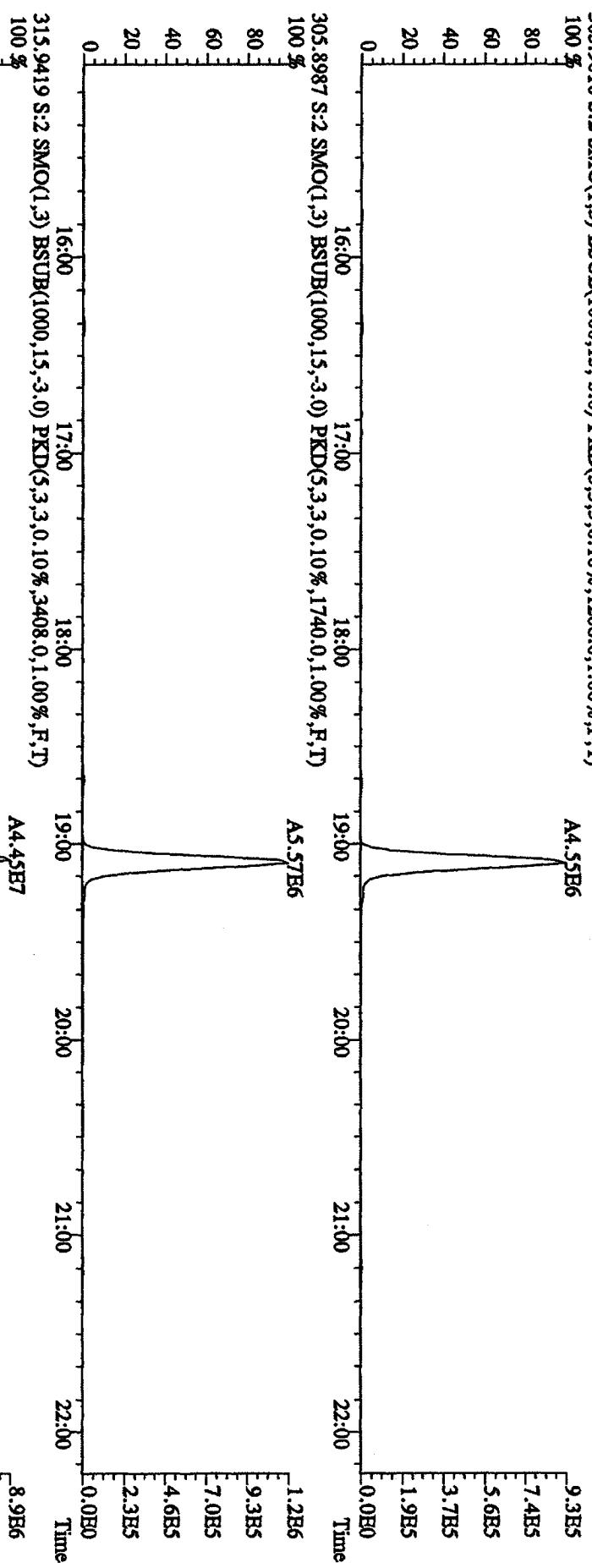
60 4.1E2

40 2.7E2

20 0.0E0

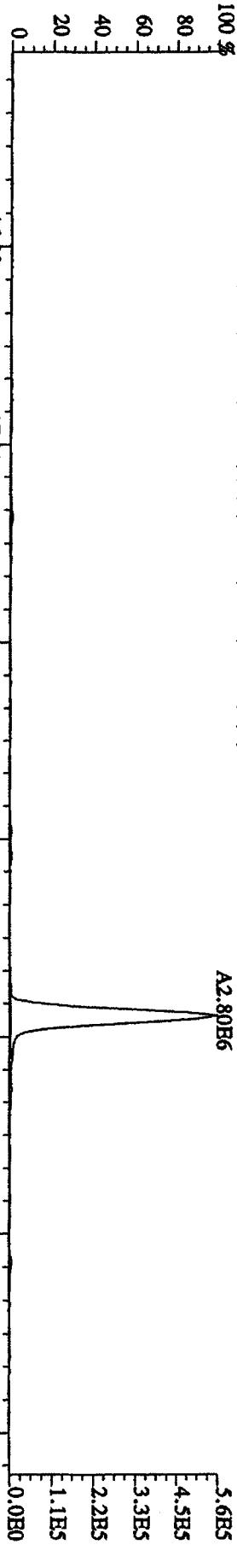
36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time

File:12AP104DS #1-435 Acq:12-APR-2010 09:14:17 GC HI+ Voltage SIR Autospec-UltimateB
 Sample#2 Text:ST0412 :CS-3 10DXN111 Exp:DIOXINRES8290A
 303.9016 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1208.0,1.00%,F,T)
 100 % A4.55E6 9.3E5
 80 7.4E5
 60 5.6E5
 40 3.7E5
 20 1.9E5
 0 0.0E0



File:12AAP104D5 #1-435 Acq12-APR-2010 09:14:17 GC El+ Voltage SIR Autospec-UltimaB
Sample#2 Text:STD412 :CS:3 10DXN11 Exp:DIOXINRESS&290A
319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,968.0,1.00%,F,T)
100 %

A2.80E6
5.6E5
4.5E5
3.3E5
2.2E5
1.1E5



331.9368 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5096.0,1.00%,F,T)
100 %

A2.94E7
A2.78E7

A3.55E6

6.8E5
5.5E5
4.1E5
2.7E5
1.4E5

6.0E6
4.8E6
3.6E6
2.4E6
1.2E6

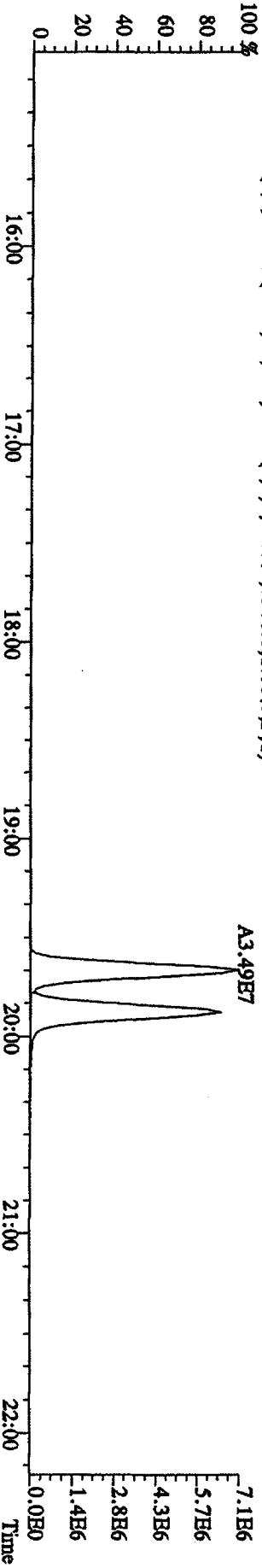
7.1E6
5.7E6
4.3E6
2.8E6
1.4E6

0.0E0

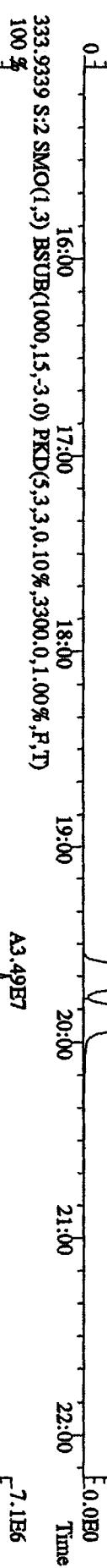
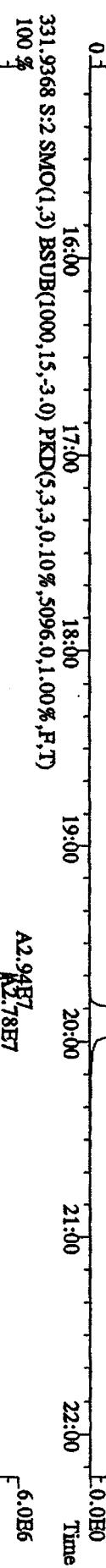
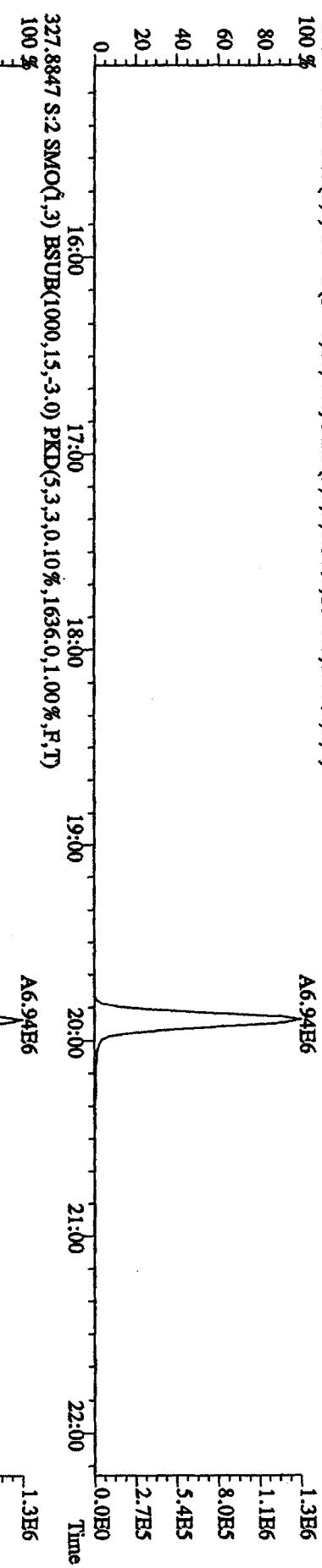
16:00 17:00 18:00 19:00 20:00 21:00 22:00 Time

333.9339 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3300.0,1.00%,F,T)
100 %

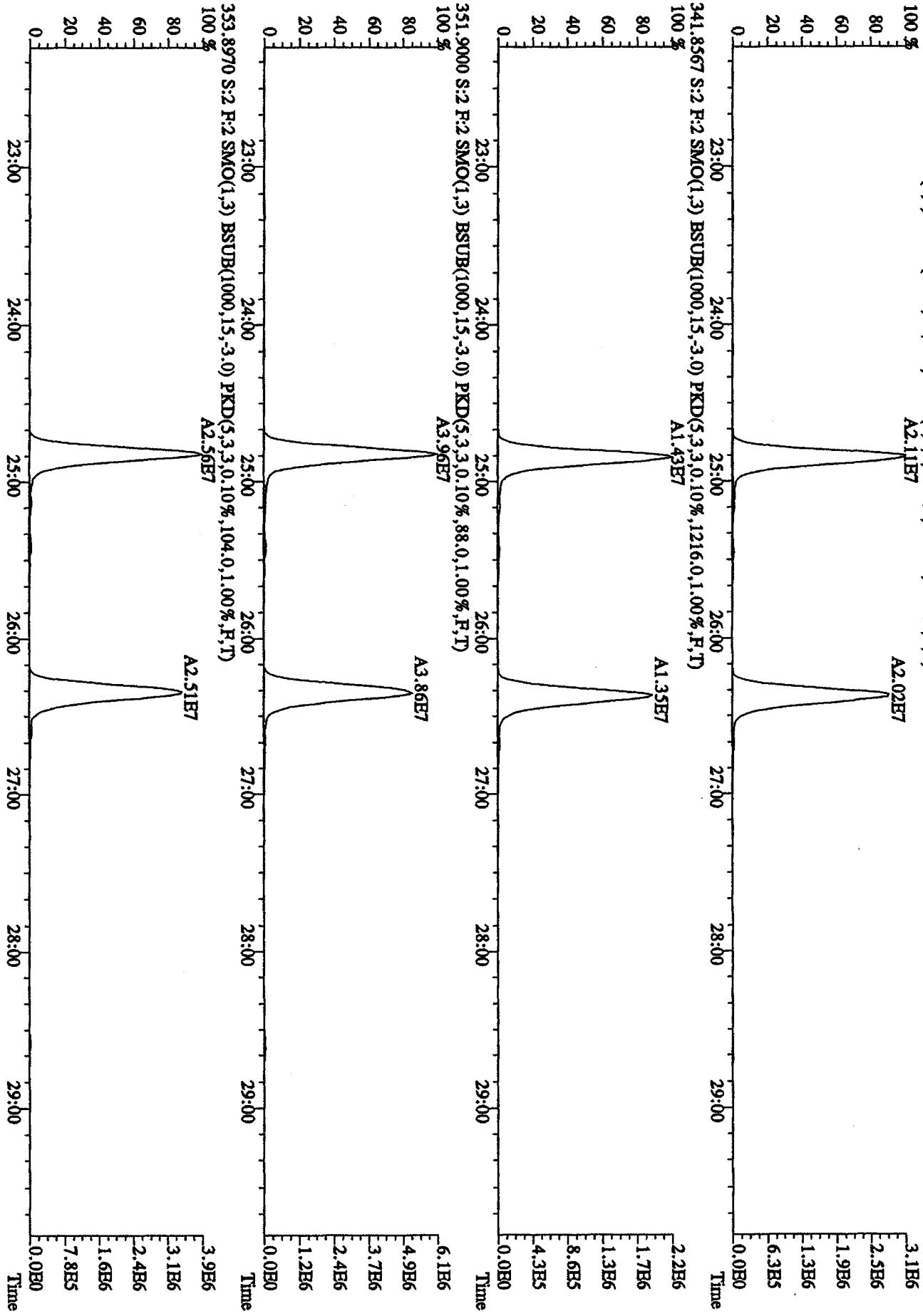
A3.49E7



File:12AP104D5 #1-435 Acq:12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#:2 Text:ST0412 :CS-3 10DXN111 Exp:DIOXINRES8290A
 327.8847 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1636.0,1.00%,R,T)
 100 %

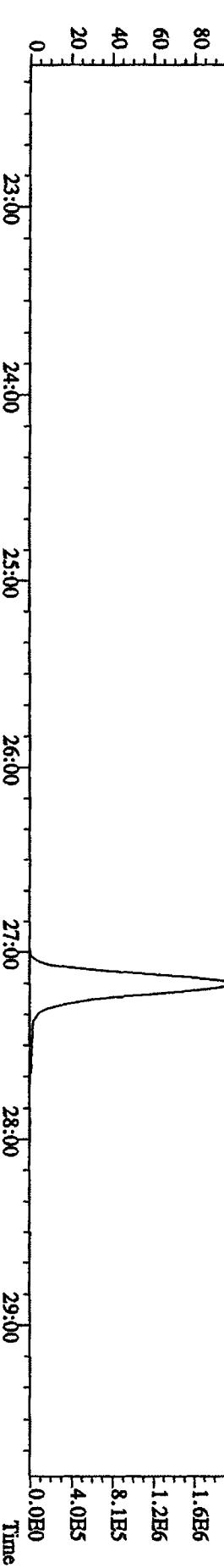
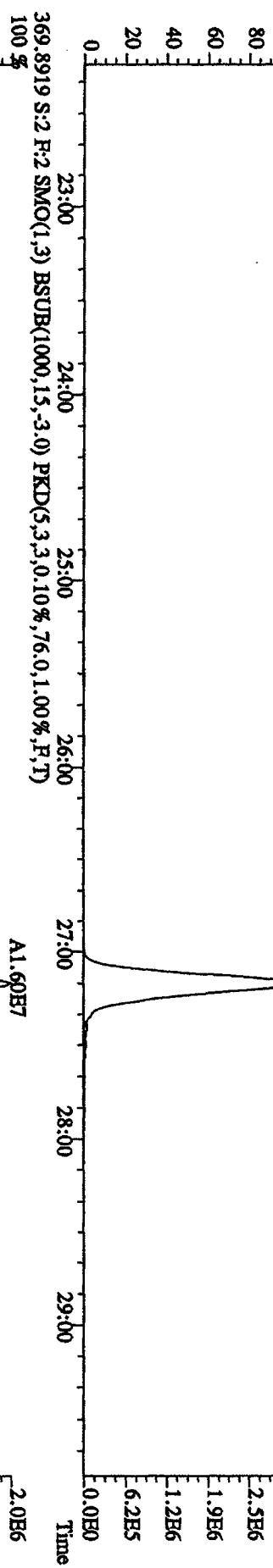
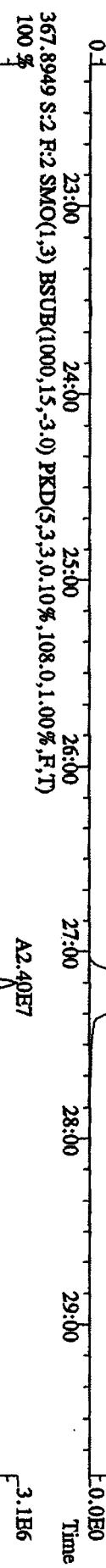
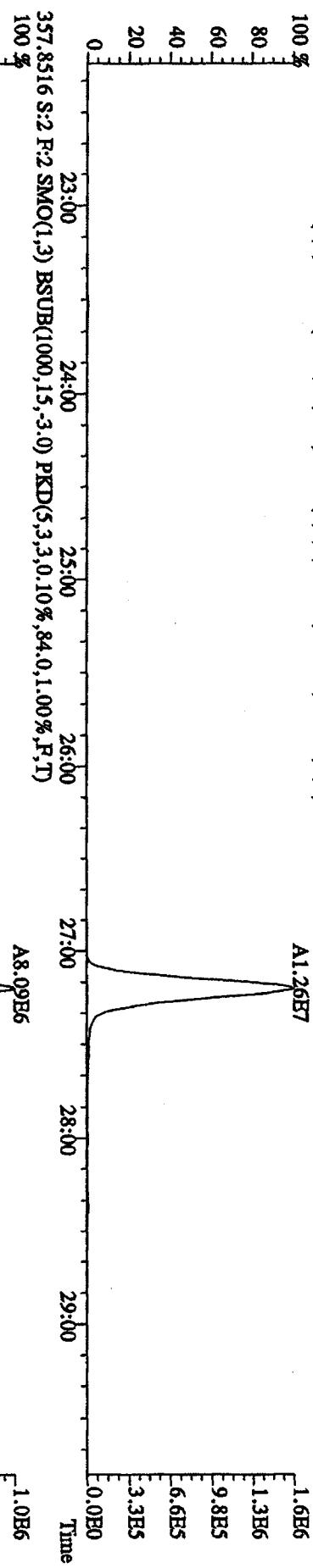


File:12AP104D5 #1-604 Acq:12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#2 Text:ST0412 :CS-3 10DXN111 Exp:DIOXINRBS290A
 339.8597 S:2 R:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1572.0,1.00%,R,T)
 A2.11E7



Sample#2 Text:ST0412 :GS-3 10DXN11 Exp:DOXINRES8290A
 355.8546 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1036.0,1.00%,F,T)

A1.26E7



Sample#2 Text:ST0412 :CS-3 10DXN111 Exp:DIOXINRES8290A

373.8203 S:2 F:3 SMO(1,3) RSUB(1000,15,-3.0) PKD(5,3,3,0.10%,720,0,1.00%,F,T)

100 % A1.89E7 4.5E6

80 % A1.66E7 3.6E6

60 % A1.50E7 2.7E6

40 % A1.38E7 1.8E6

20 % A1.25E7 9.1E5

0 % A1.12E7 0.0E0

30:00 31:00 32:00 33:00 34:00 Time

375.8178 S:2 F:3 SMO(1,3) RSUB(1000,15,-3.0) PKD(5,3,3,0.10%,508,0,1.00%,F,T)

100 % A1.59E7 3.9E6

80 % A1.42E7 3.1E6

60 % A1.25E7 2.3E6

40 % A1.12E7 1.5E6

20 % A1.00E7 7.7E5

0 % A0.80E7 0.0E0

30:00 31:00 32:00 33:00 34:00 Time

383.8639 S:2 F:3 SMO(1,3) RSUB(1000,15,-3.0) PKD(5,3,3,0.10%,560,1.00%,F,T)

100 % A1.61E7 4.7E6

80 % A1.42E7 3.7E6

60 % A1.25E7 2.8E6

40 % A1.12E7 1.9E6

20 % A1.00E7 9.4E5

0 % A0.80E7 0.0E0

30:00 31:00 32:00 33:00 34:00 Time

385.8610 S:2 F:3 SMO(1,3) RSUB(1000,15,-3.0) PKD(5,3,3,0.10%,720,1.00%,F,T)

100 % A3.15E7 9.4E6

80 % A3.40E7 7.5E6

60 % A3.15E7 5.6E6

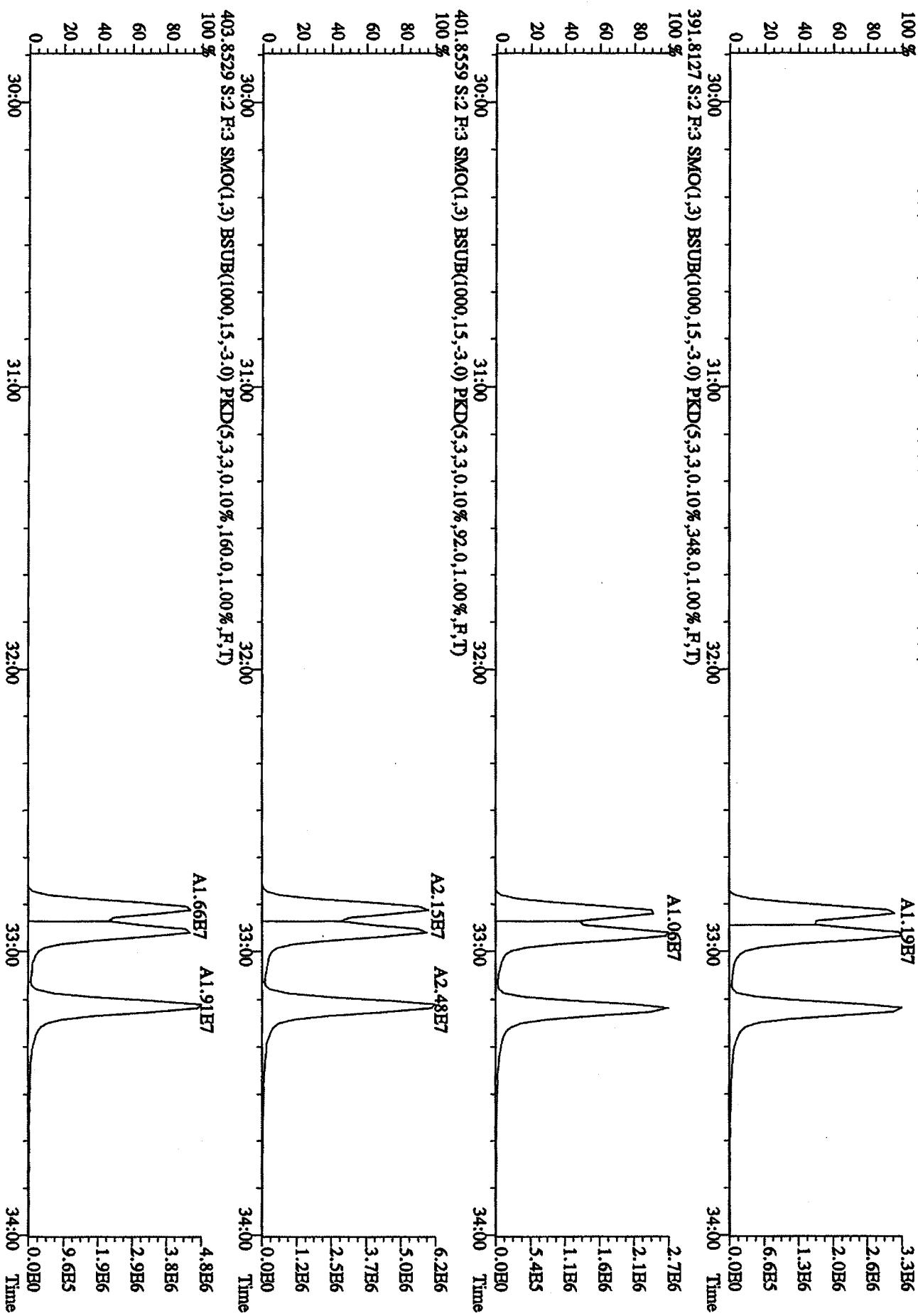
40 % A3.09E7 3.8E6

20 % A3.09E7 1.9E6

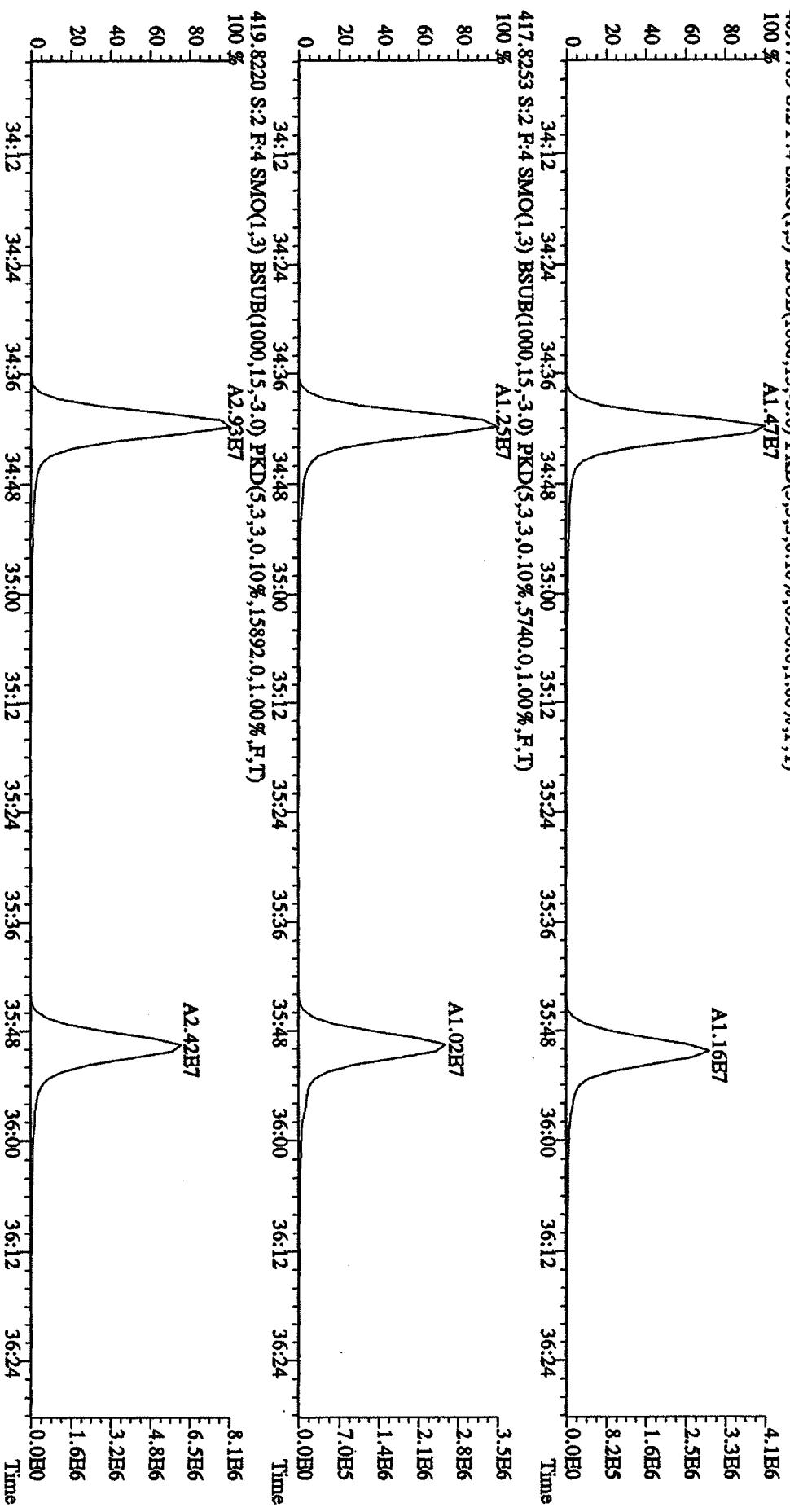
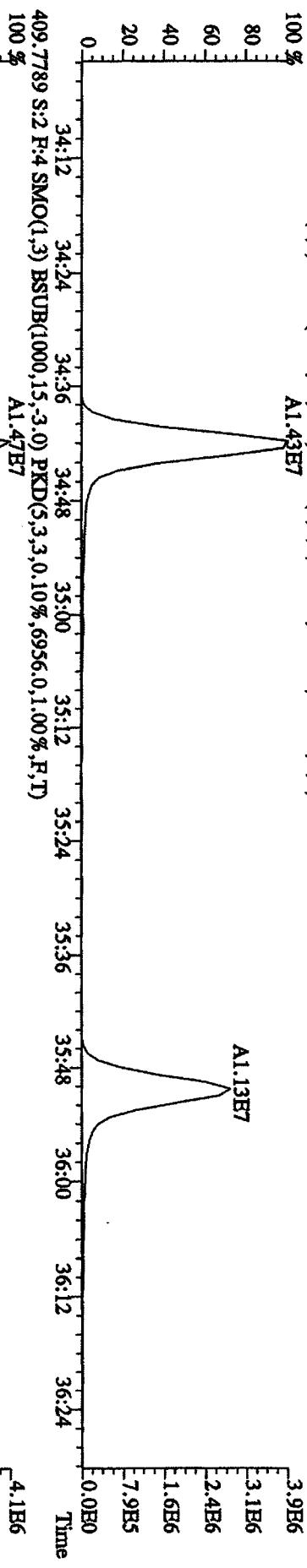
0 % A0.00E0 0.0E0

30:00 31:00 32:00 33:00 34:00 Time

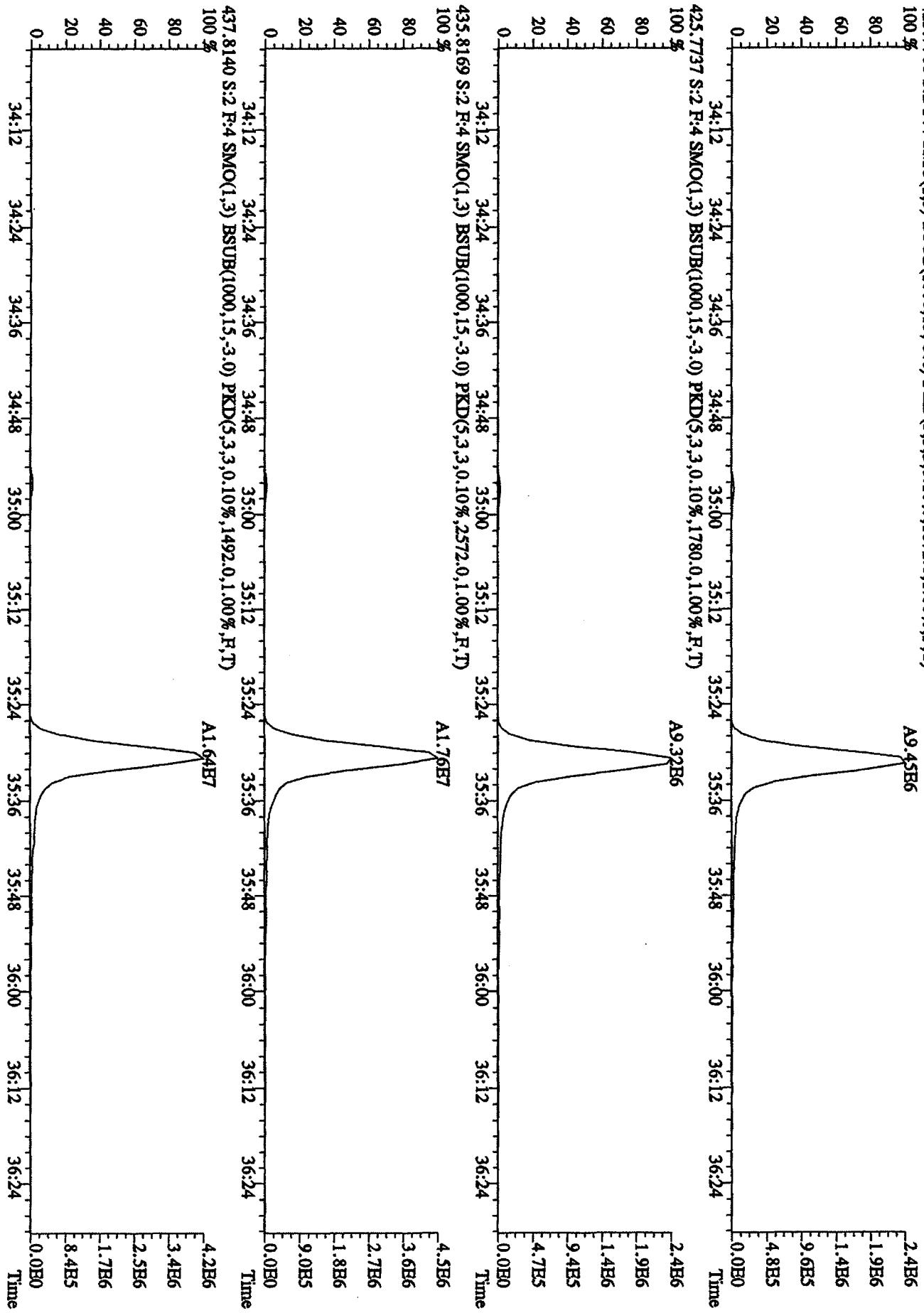
File:12AP104D5 #1-317 Acq:12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaH
Sample#: ST0412 :CS3 10DXN11 Exp:DIOXINRESS3290A
389.8157 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,588.0,1.00%,R,T)
100 %



File:12AP104D5 #1-198 Acq:12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#:2 Text:ST0412 :CS-3 10DXN11 Exp:DOXINRES8290A
 407.7818 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6488.0,1.00%,F,T)
 100 % A1.43E7



File:12AP104D5 #1-198 Acq:12-APR-2010 09:14:17 GC EI+ Voltage SIR AutoSpec-UltimaB
 Sample#2 Text:ST0412 :CS-3 10DXN111 Exp:DIOXINRES8290A
 423.7766 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1872.0,1.00%,F,T)
 100 %



File:12AP104D5 #1-191 Acq:12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaB
Sample#: ST0412 :CS-3 10DXN11 Exp:DIOXINRES8290A
441.7428 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1340.0,1.00%,F,T)

A1.84E7

4.2E6

3.8E6

3.4E6

2.9E6

2.5E6

2.1E6

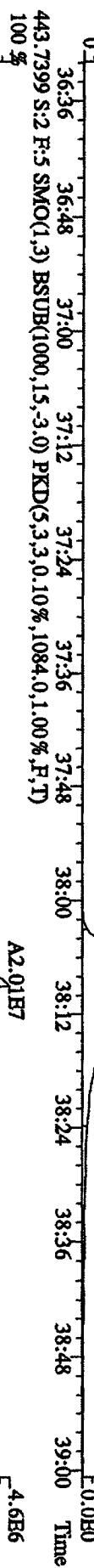
1.7E6

1.3E6

8.4E5

4.2E5

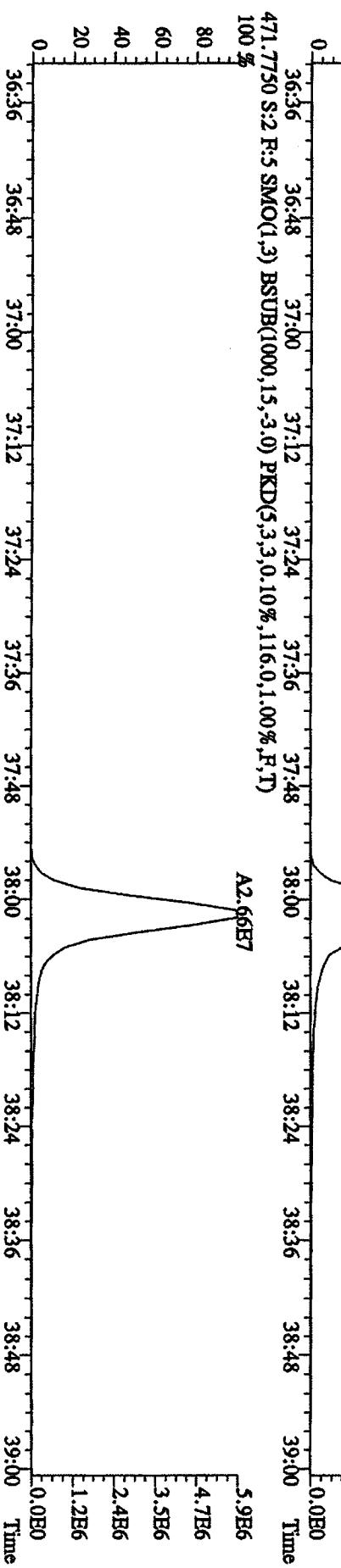
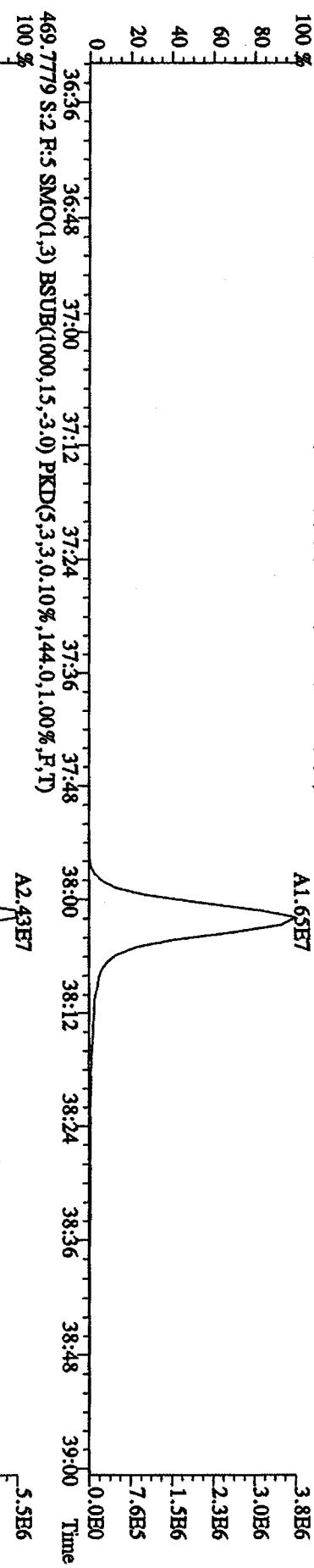
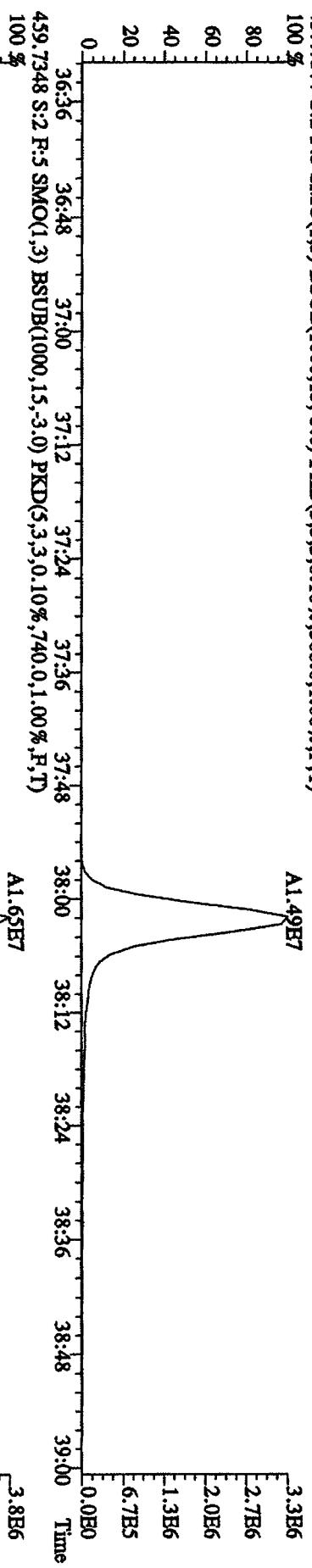
0.0E0



36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00

0.0E0

File:12AP104D5 #1-191 Acq:12-APR-2010 09:14:17 GC H+ Voltage SIR Autospec-UltimaE
Sample#:2 Text:ST0412 :CS-3 10DXN11 Exp:DIOXINRES8290A
457.7377 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,568.0,1.00%,F,T)

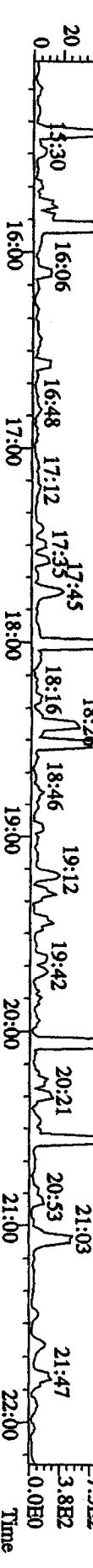
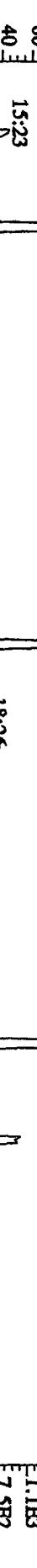
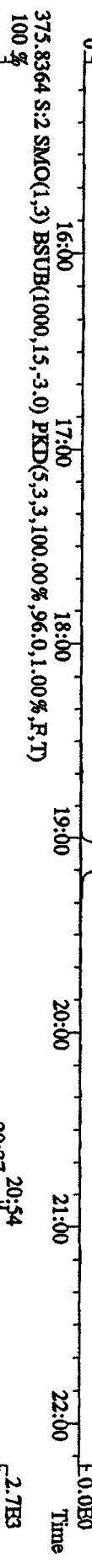
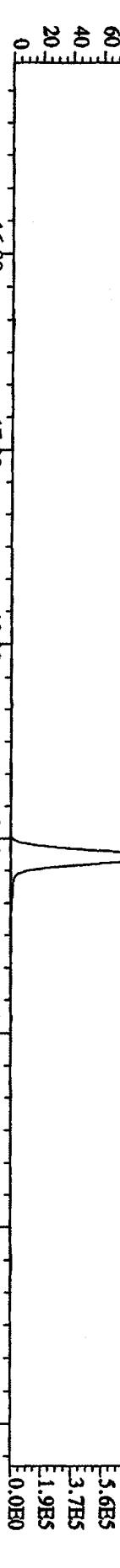
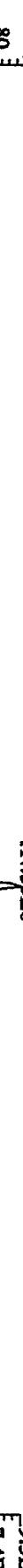
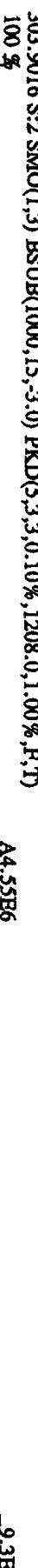


File:12AP104D5 #1-435 Acq:12-APR-2010 09:14:17 GC HI+ Voltage SIR Autospec-Ultimate

Sample#2 Text:ST0412 :CS-3 10DXN11 Exp:DIOXINRHS8290A

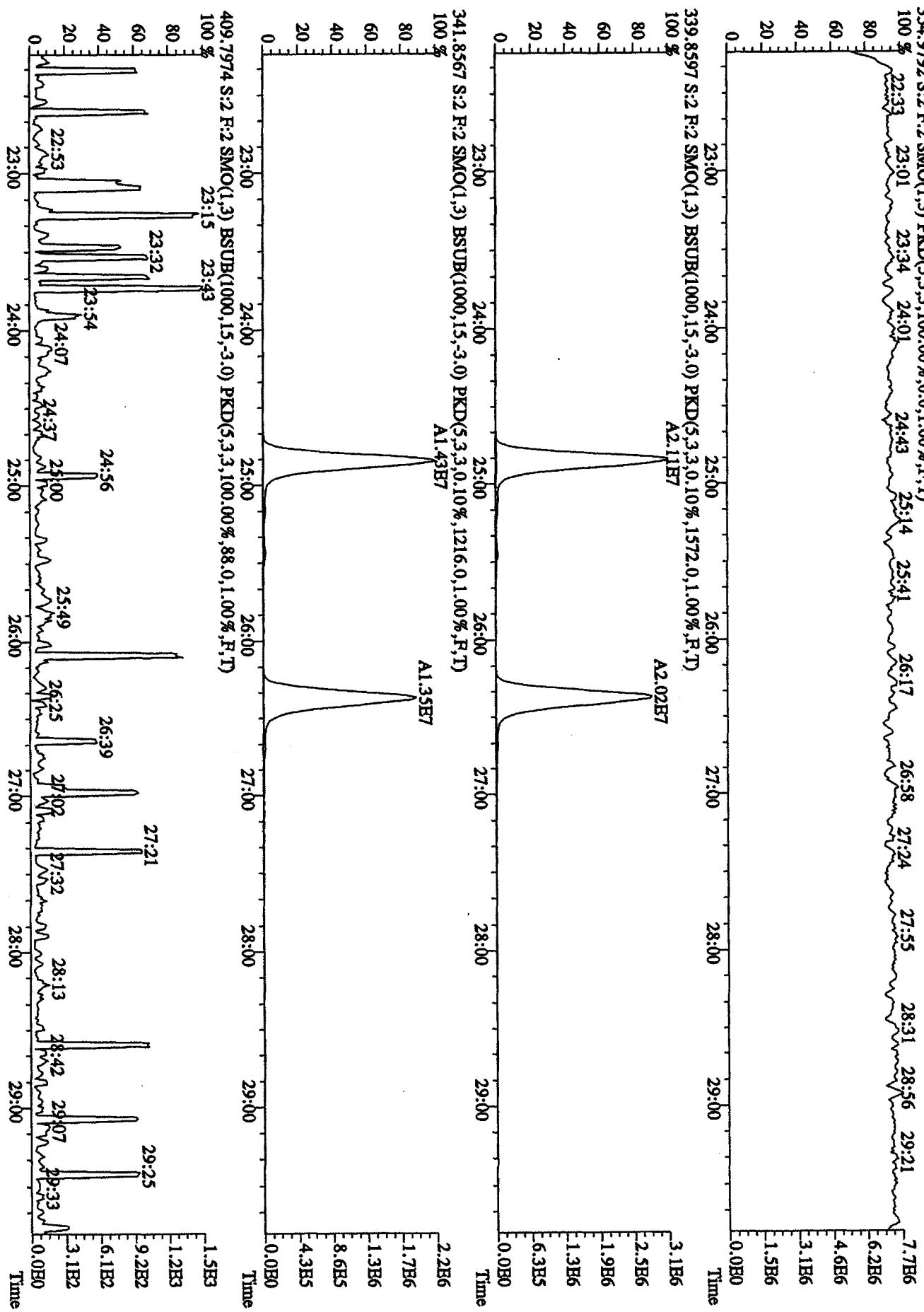
354.9792 S:2 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)

100 % 15:14 15:41 16:29 17:15 17:50 18:21 18:56 19:23 19:48 20:41 21:08 21:43



File:12AP104D5 #1-604 Acq:12-APR-2010 09:14:17 GC El+ Voltage SIR Autospec-UltimaE

Sampier2 Index 10412 :65-3 INDEX III Exp: B102K1KES8230H



File:12AP104D5 #1-317 Acq:12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaB

Sample#2 Text:ST0412 :CS-3 10DXN11 Exp:DIOXINRES8290A

430.9728 S:2 R:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

30:01 30:22 30:41 30:56 31:11 31:29 31:43 31:56 32:20 32:34 32:57 33:14 33:30

80 60 40 20 0

7.4E6

5.9E6

4.4E6

3.0E6

1.5E6

0.0E0

Time

373.8208 S:2 R:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,720.0,1.00%,F,T)

100 %

80

60

40

20

0

Time

373.8178 S:2 R:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,508.0,1.00%,F,T)

100 %

80

60

40

20

0

Time

A1.89E7 A1.66E7 A1.50E7

4.5E6

3.6E6

2.7E6

1.8E6

9.1E5

0.0E0

Time

A1.59E7 A1.42E7 A1.25E7

3.9E6

3.1E6

2.3E6

1.5E6

7.7E5

0.0E0

Time

445.7555 S:2 R:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,76.0,1.00%,F,T)

100 %

80

60

40

20

0

Time

30:00 31:00 32:00 33:00 34:00

30:29 31:11 31:30 32:24 33:16

31:38 32:08 32:24 32:34 33:21

32:54 33:29 33:35 33:42 33:48

30:00 31:00 32:00 33:00 34:00

Time

29:58 30:25 31:11 31:30 32:24 33:16

30:29 31:38 32:08 32:24 32:34 33:21

30:00 31:00 32:00 33:00 34:00

Time

Sample#2 Text:STM412

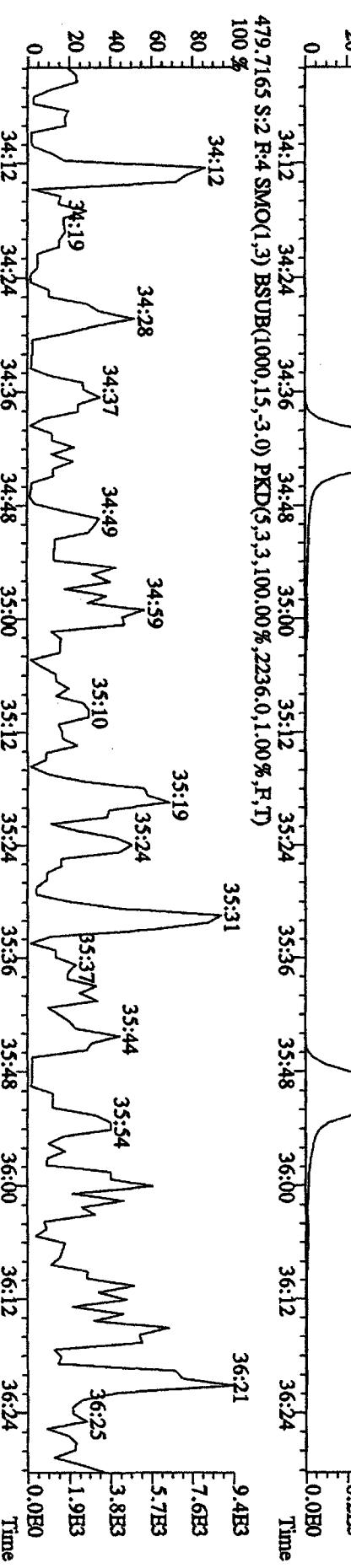
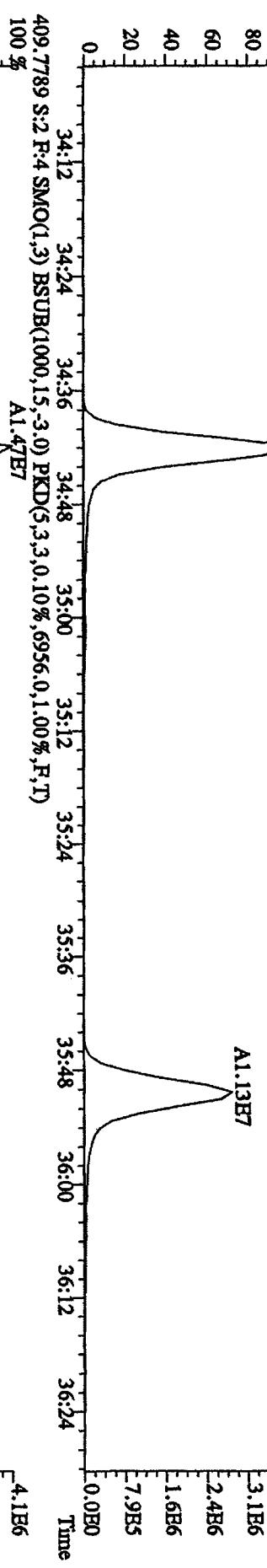
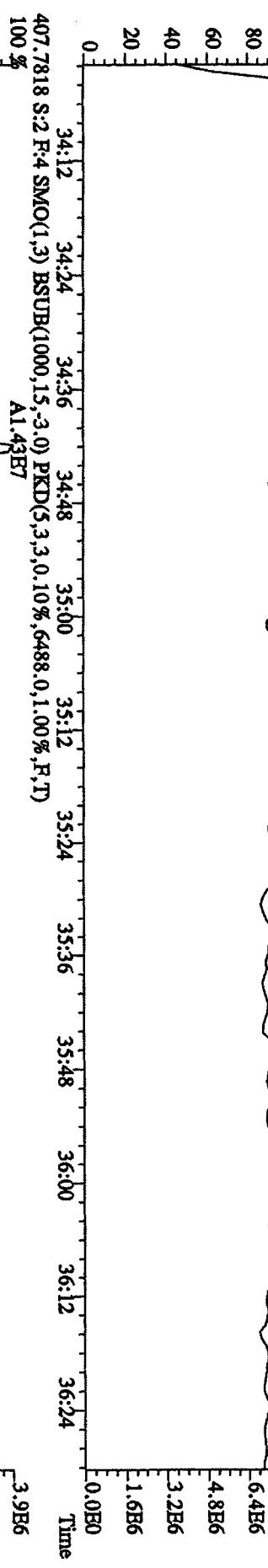
:GS 3 10DXN11

Exp:DIOXDRHS8290A

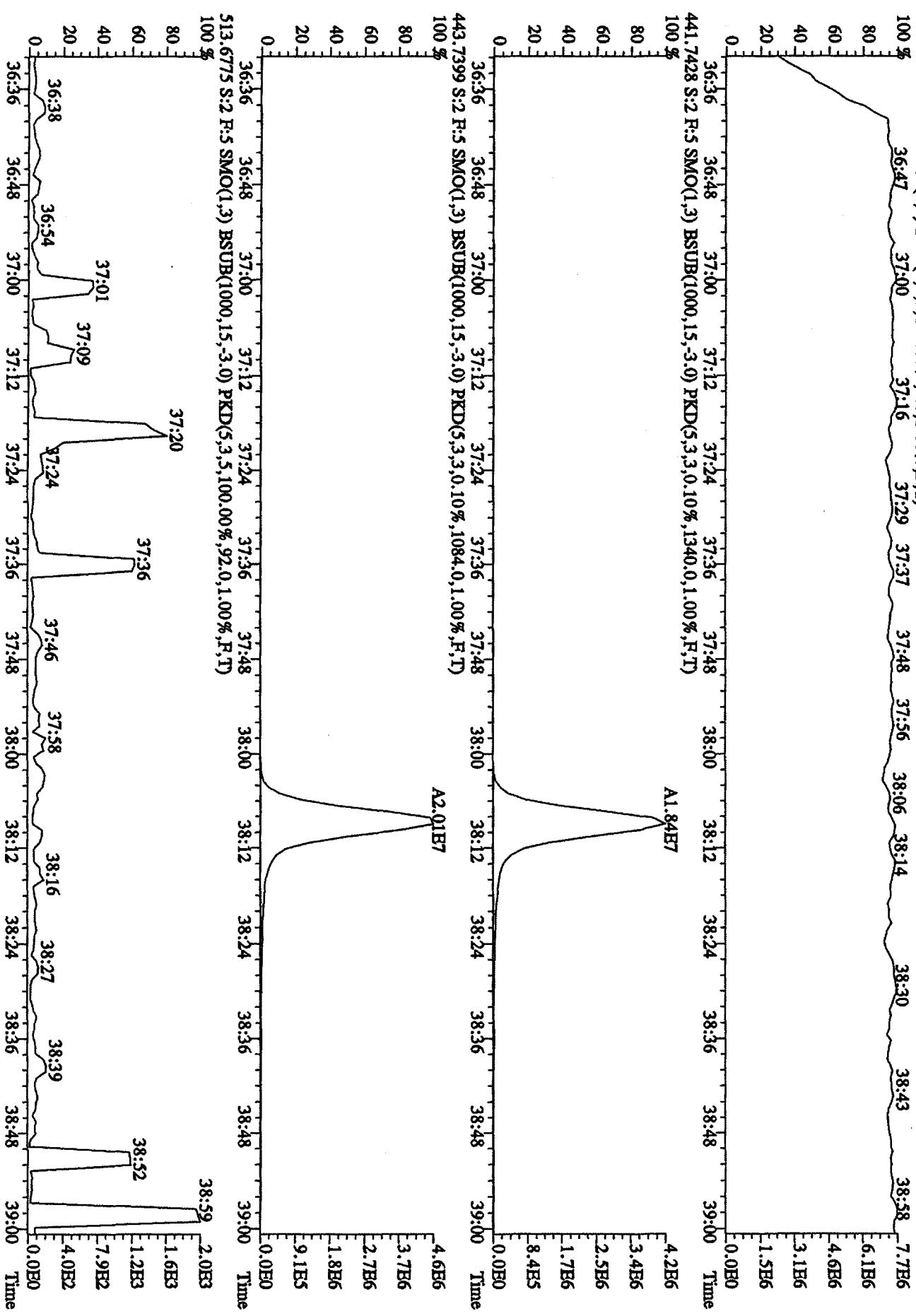
430.9728 S:2 F:4 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)

100 % 34:07 34:16 34:31 34:43 34:52 35:04 35:13 35:20 35:28 35:47 36:00 36:23

8.0E6
6.4E6
4.8E6
3.2E6
1.6E6



File:12AP104D5 #1-191 Acq:12-APR-2010 09:14:17 GC HI+ Voltage SIR Autospec-UltimaH
Sample#: ST0412 :CS-3 10DXN111 Exp:DIOXINRES3290A



File:12AP104D5 #1-435 Acq:12-APR-2010 12:16:51 GC HI+ Voltage SIR AutoSpec-Ultimate
Sample#6 Text:ST0412D .CS:4 09DXN426 Exp:DIOXINRHS8290A
303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2052.0,1.00%,F,T)
100 %

7.4E6

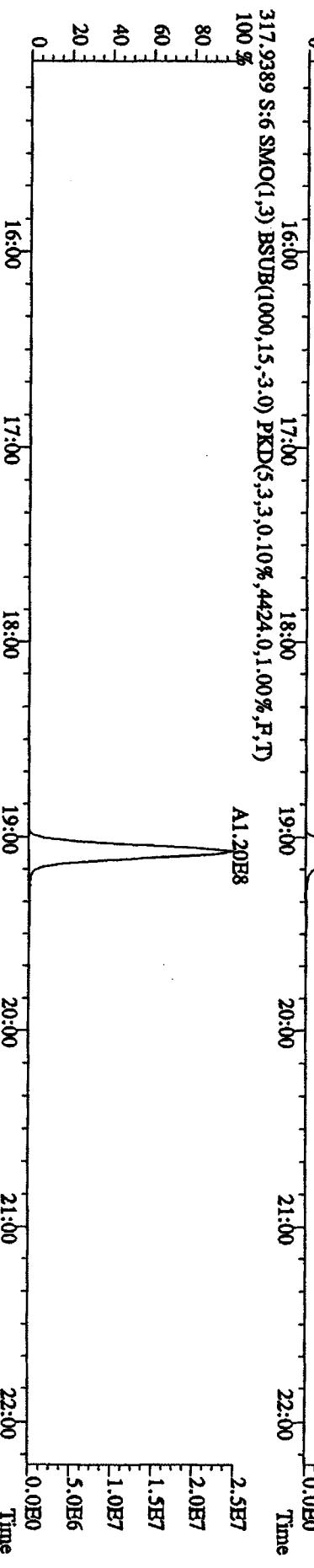
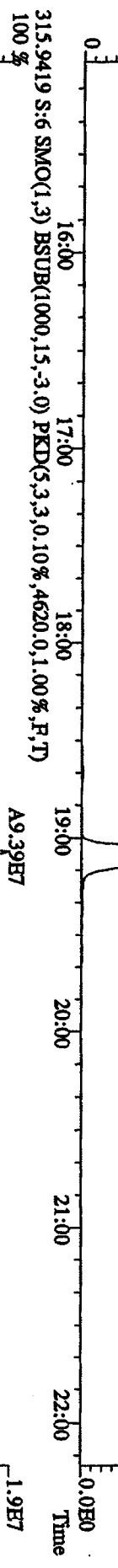
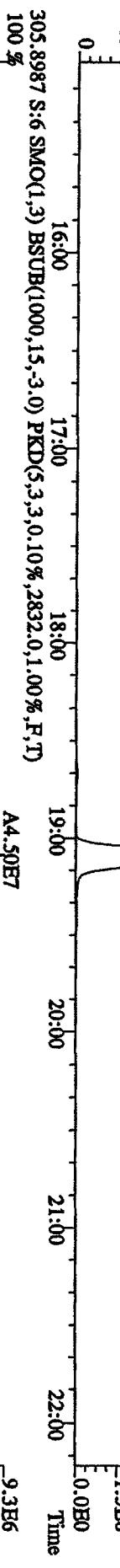
5.9E6

4.4E6

-3.0E6

1.5E6

A3.61E7



Sample#6 Test:ST0412D .CS4 09DXN426 Exp:DIOXINRES8290A

319.8965 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1540.0,1.00%,F,T)

321.8936 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1744.0,1.00%,F,T)

A2.52E7

5.0E6

4.0E6

3.0E6

2.0E6

1.0E6

0.0E0



331.9368 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5456.0,1.00%,F,T)

A6.98E7

1.4E7

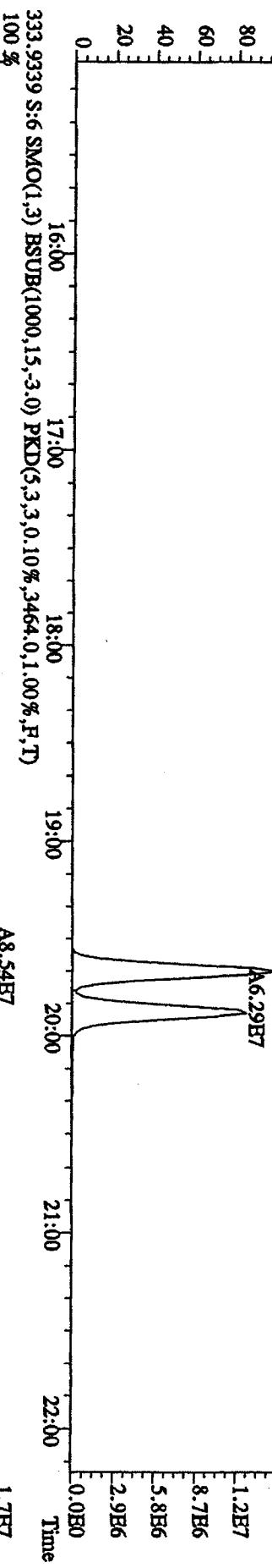
1.2E7

8.7E6

5.8E6

2.9E6

0.0E0



333.9339 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3464.0,1.00%,F,T)

A8.54E7

1.7E7

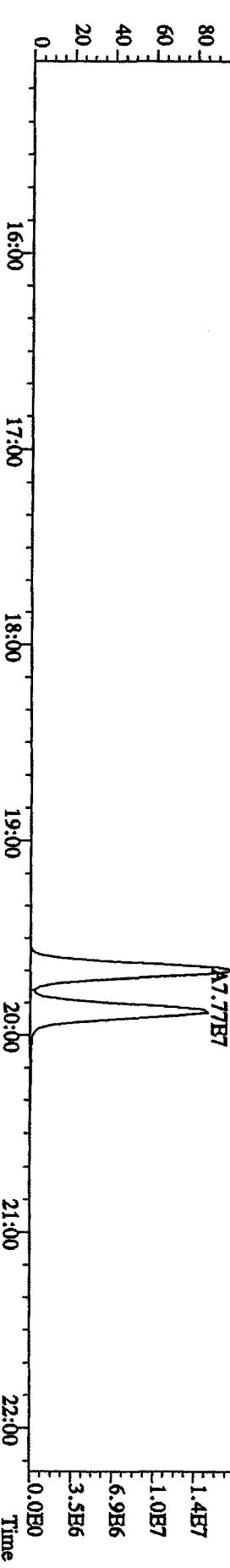
1.4E7

1.0E7

6.9E6

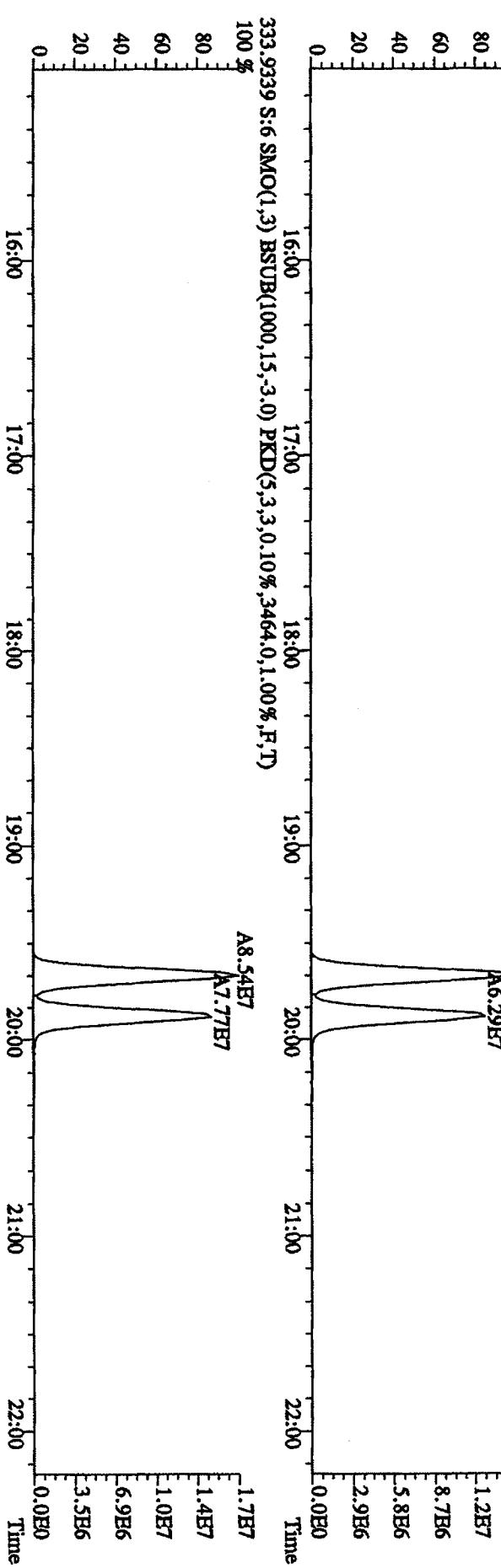
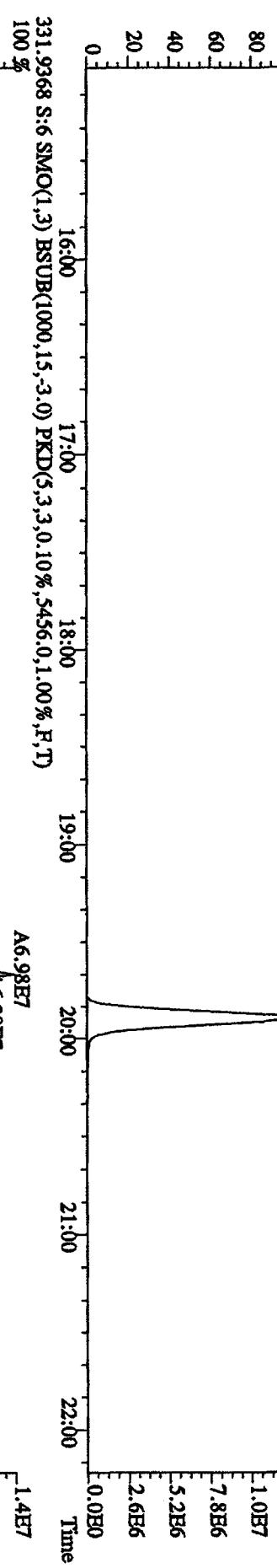
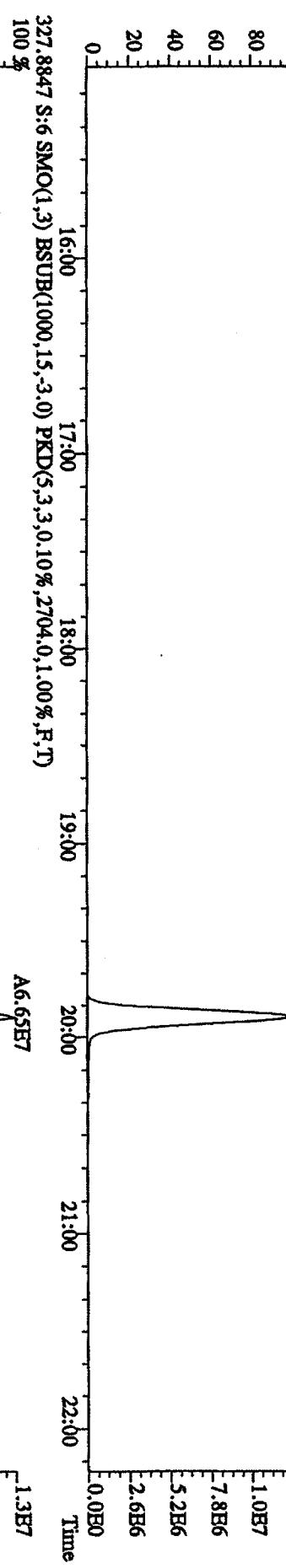
3.5E6

0.0E0

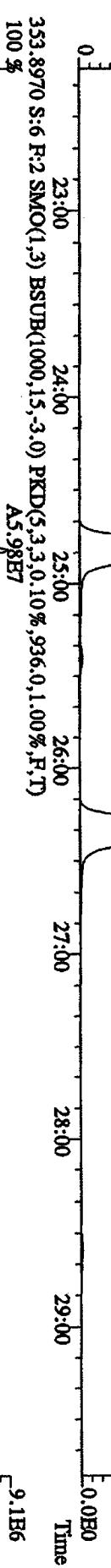
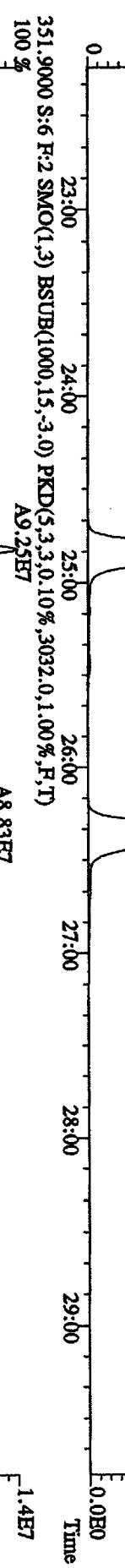
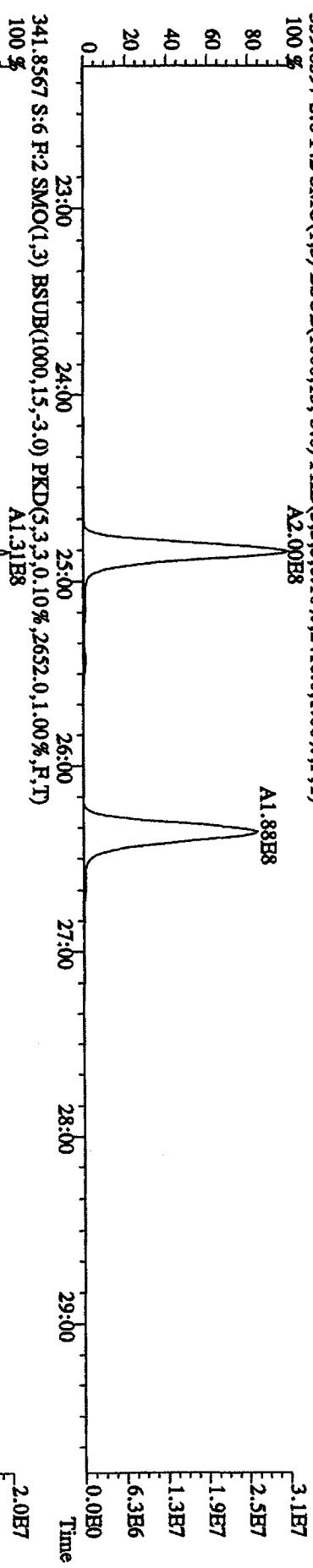


File:12AP104D5 #1-435 Acq:12-APR-2010 12:16:51 GC El+ Voltage SIR Autospec-Ultimate
Sample#6 Text:ST0412D :CS-4.09DXN426 Exp:DIOXINRES8290A
327.8847 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2704.0,1.00%,F,T)
100 %

A6.65E7
1.3E7
1.0E7
7.8E6
5.2E6
2.6E6
0.0E0



File:12AP104D5 #1-604 Acq:12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#6 Tex:ST0412D :CS-4 09DXN426 Exp:DIOXINRES8290A
 339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2416.0,1.00%,F,T)
 100 % A2.00E8
 80
 60
 40
 20
 0



Sample#6 Text:ST0412D :CS-4 09DXN426 Exp:DIOXINRHS8290A

355.8546 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2816.0,1.00%,F,T)

357.8516 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1636.0,1.00%,F,T)

A1.22E8

1.6E7

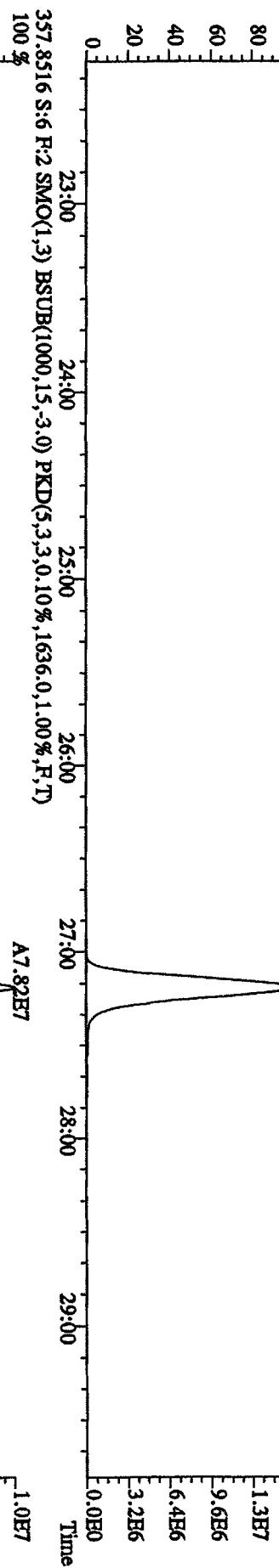
1.3E7

9.6E6

6.4E6

3.2E6

0.0E0



367.8949 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,384.0,1.00%,F,T)

A5.95E7

7.8E6

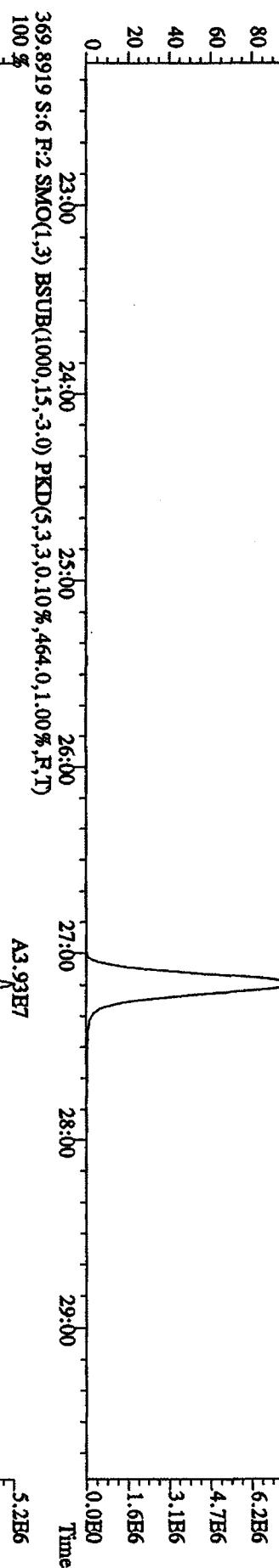
6.2E6

4.7E6

3.1E6

1.6E6

0.0E0



369.8919 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,464.0,1.00%,F,T)

5.2E6

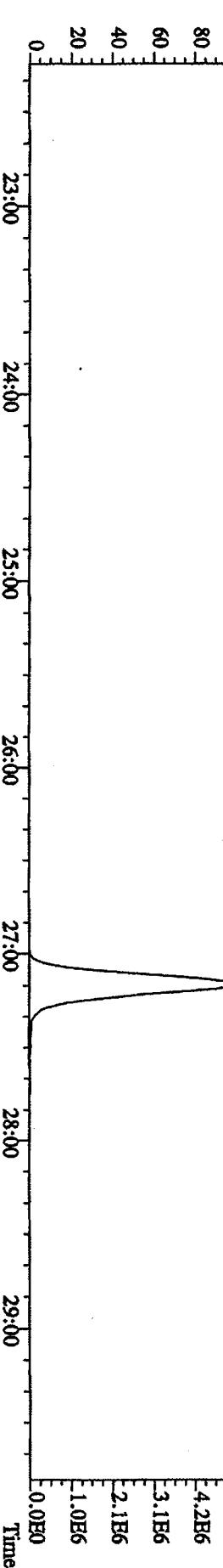
4.2E6

3.1E6

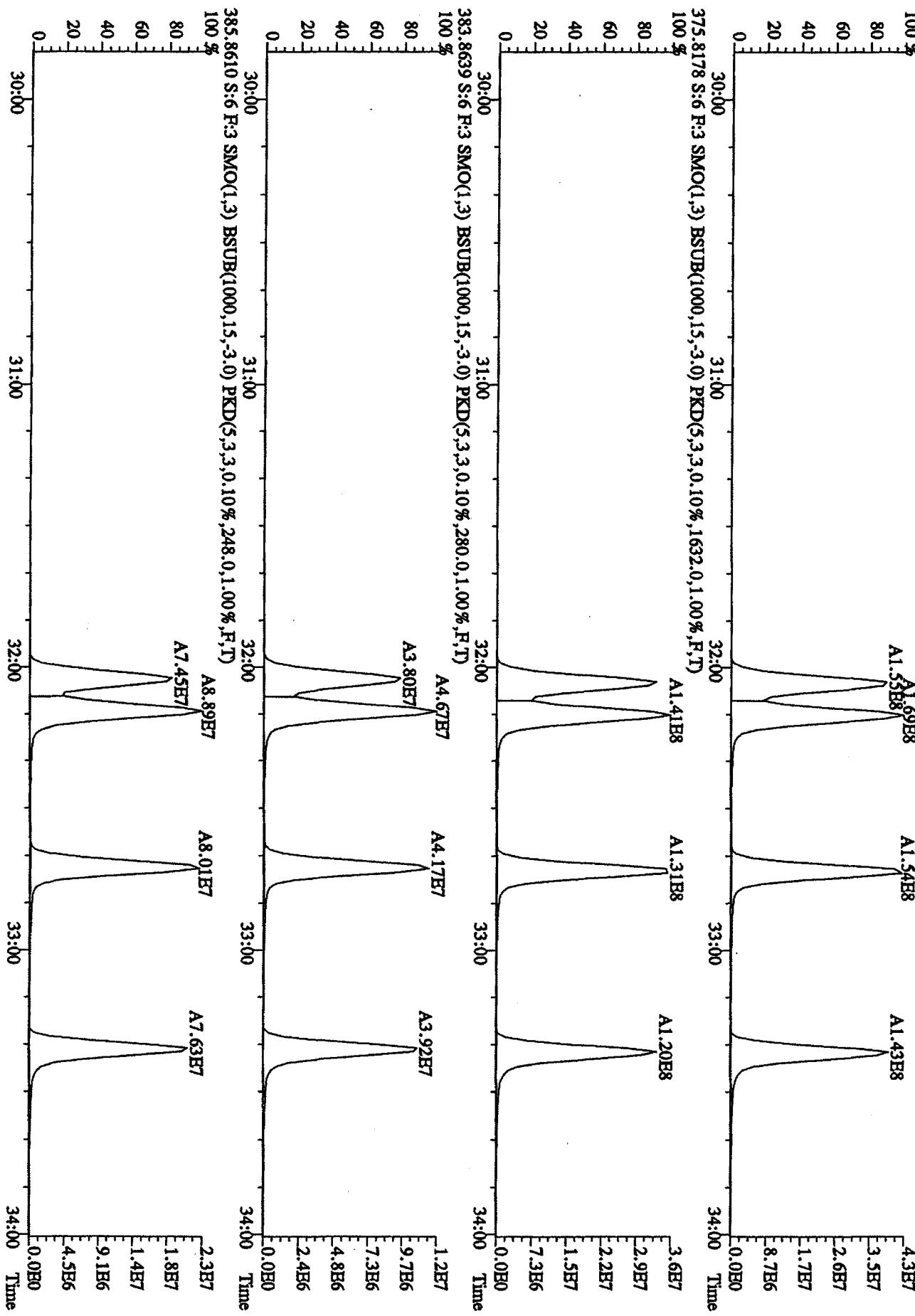
2.1E6

1.0E6

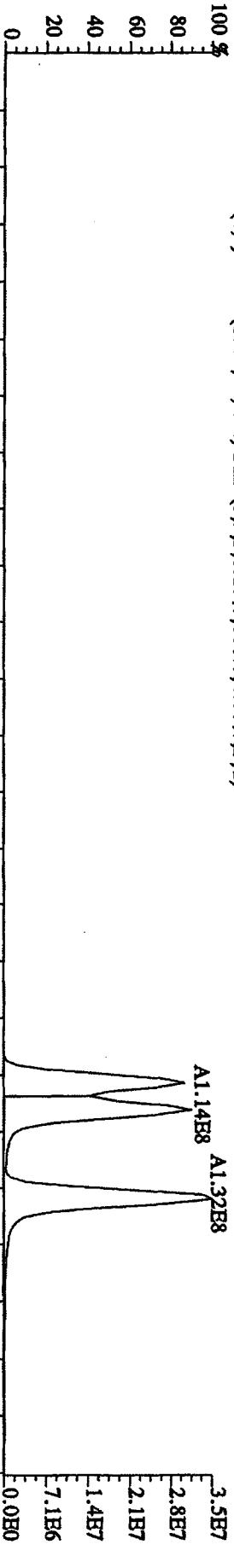
0.0E0



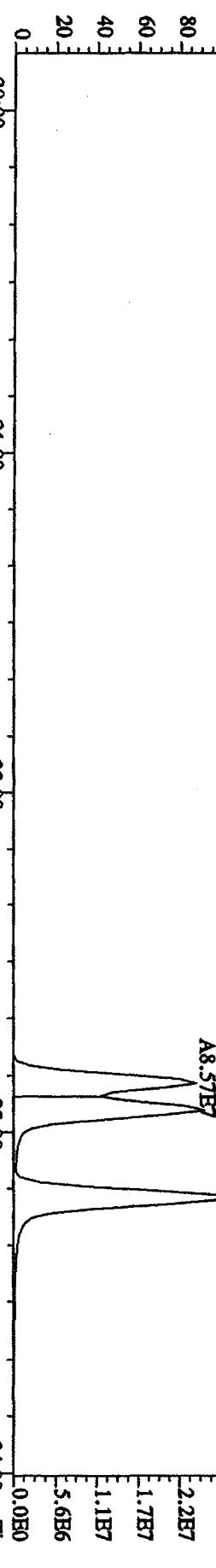
File:12API04DS #1-317 Acq:12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#6 Text:ST0412D :CS-4 09DXN426 Exp:DIOXINRES8290A
 373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2520.0,1.00%,F,T)



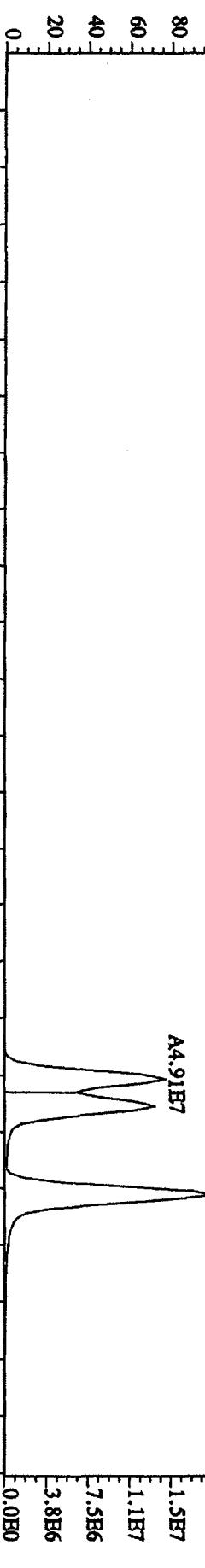
File:12APR104D5 #1-317 Acq:12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#6 Text:SMI12D :CS-4 09DXN426 Exp:DIOXINRES290A
 389.8157 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,868.0,1.00%,F,T)
 100 %



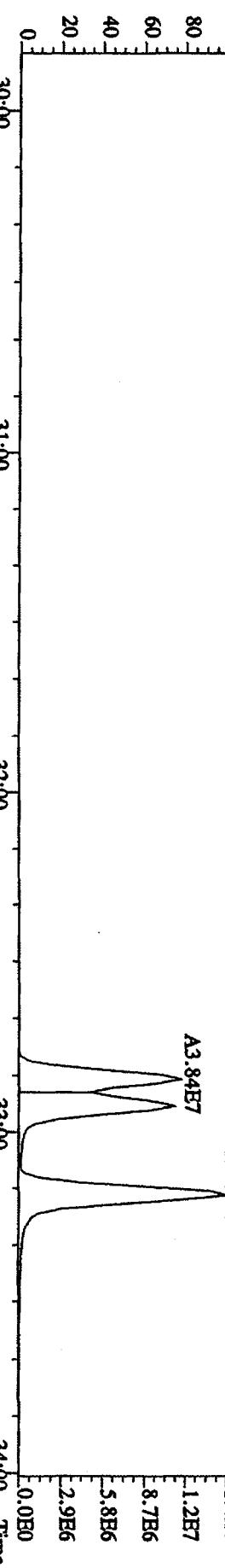
391.8127 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1364.0,1.00%,F,T)
 100 %



401.8559 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,280.0,1.00%,F,T)
 100 %



403.8529 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,292.0,1.00%,F,T)
 100 %



File:12AP104D5 #1-198 Acq:12-APR-2010 12:16:51 GC El+ Voltage SIR AutoSpec-UltimaB

Sample#6 Text:ST0412D :CS4 09DXN426 Exp:DIOXINRES8290A

407.7818 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27648.0,1.00%,F,T)

A1.29E8

3.8E7

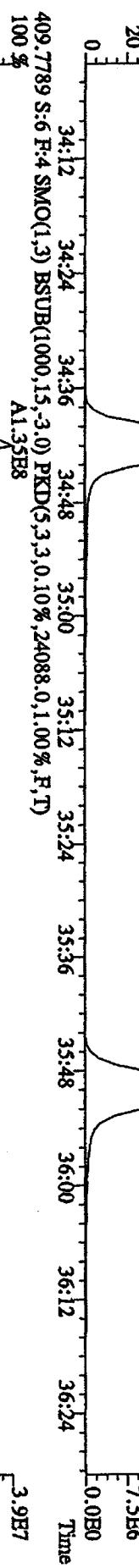
3.0E7

2.3E7

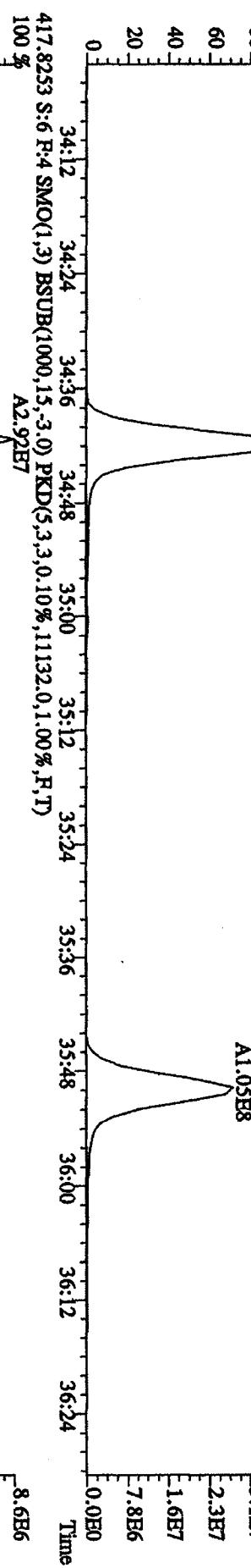
1.5E7

7.5E6

0.0E0



100 %



100 %

80

A2.24E7

2.0E7

1.6E7

1.2E7

7.9E6

4.0E6

0.0E0

Time

419.8220 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23976.0,1.00%,F,T)

A6.83E7



A5.30E7

1.6E7

1.2E7

7.9E6

4.0E6

0.0E0

Time

File:12AP104D5 #1-198 Acq:12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-Ultimate

Sample#:6 Text:ST0412D :CS:4 09DXN426 Exp:DIOXINRBS8290A

423.7766 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1560.0,1.00%,F,T)

100 %

2.4E7

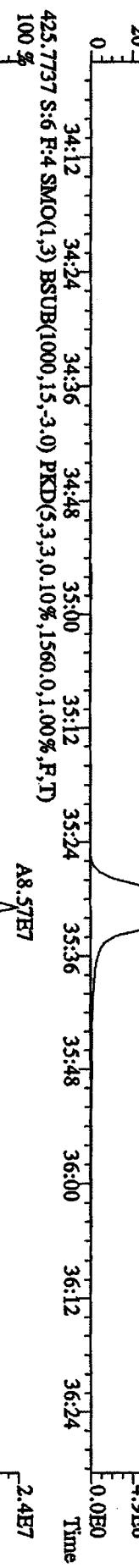
1.9E7

1.5E7

9.7E6

4.9E6

0.0E0



425.7737 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1560.0,1.00%,F,T)

100 %

2.4E7

1.9E7

1.4E7

9.5E6

4.7E6

0.0E0



435.8169 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2272.0,1.00%,F,T)

100 %

1.1E7

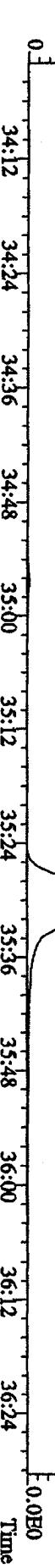
8.6E6

6.5E6

4.3E6

2.2E6

0.0E0



437.8140 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1276.0,1.00%,F,T)

100 %

1.0E7

8.3E6

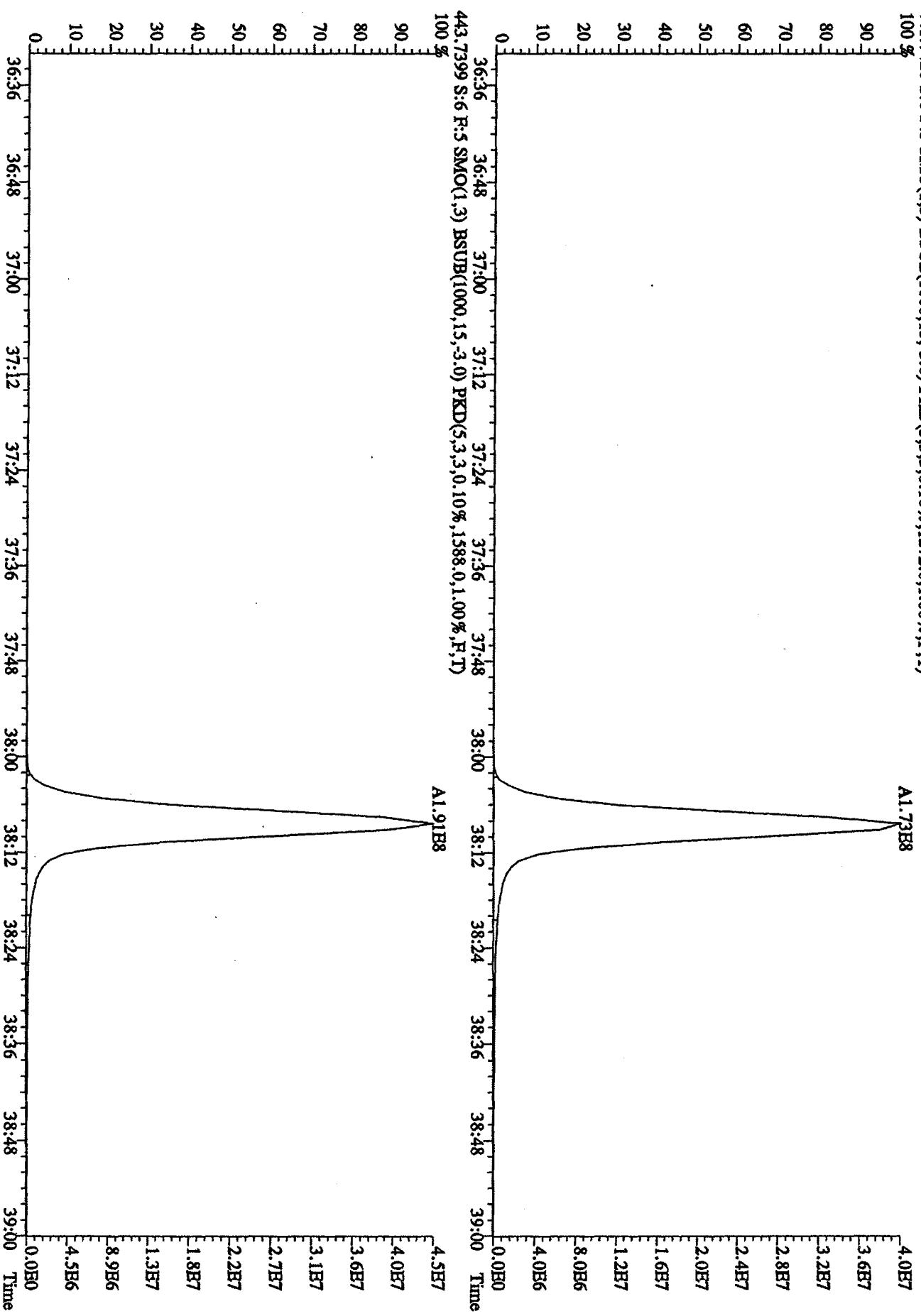
6.2E6

4.2E6

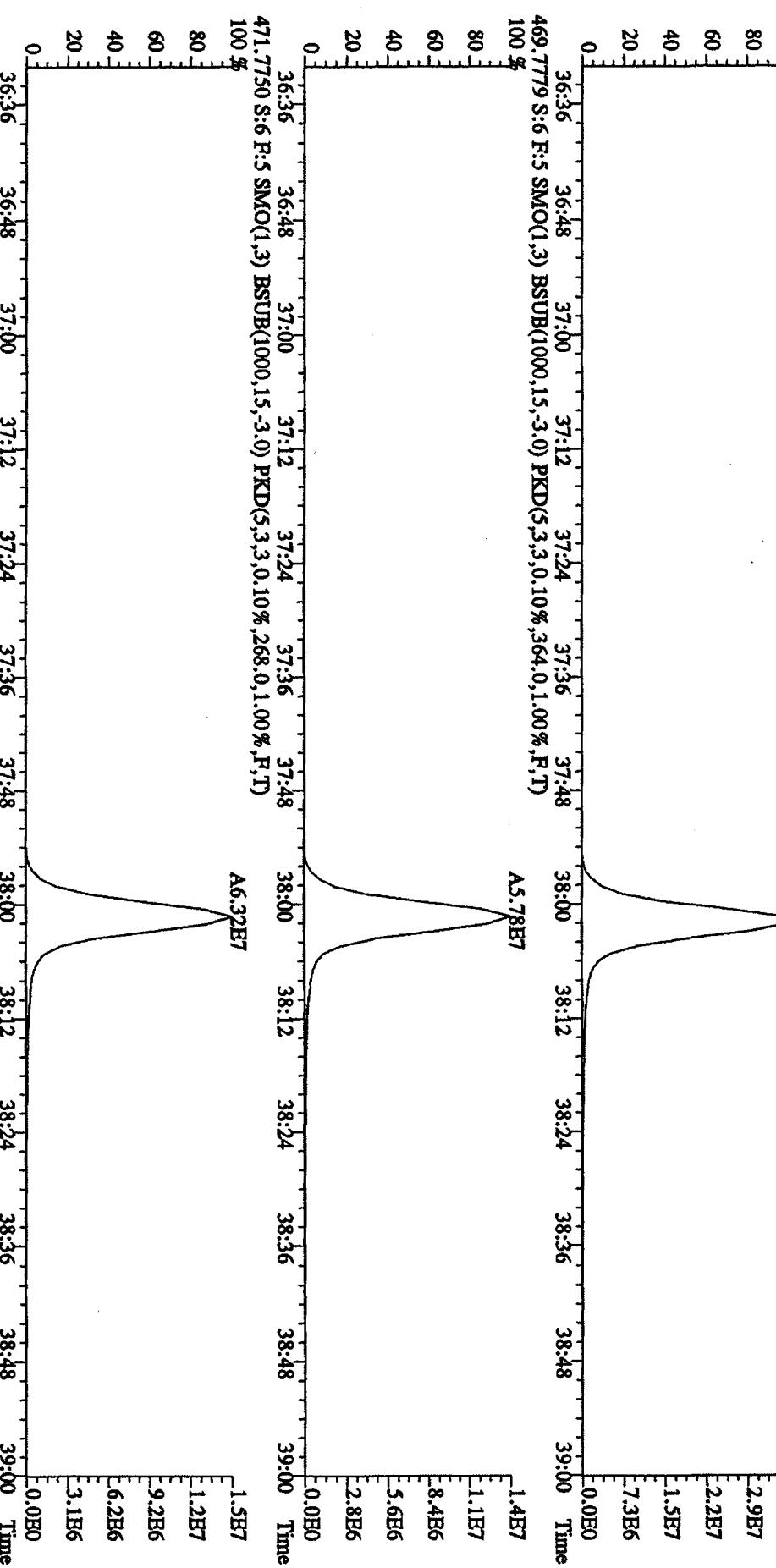
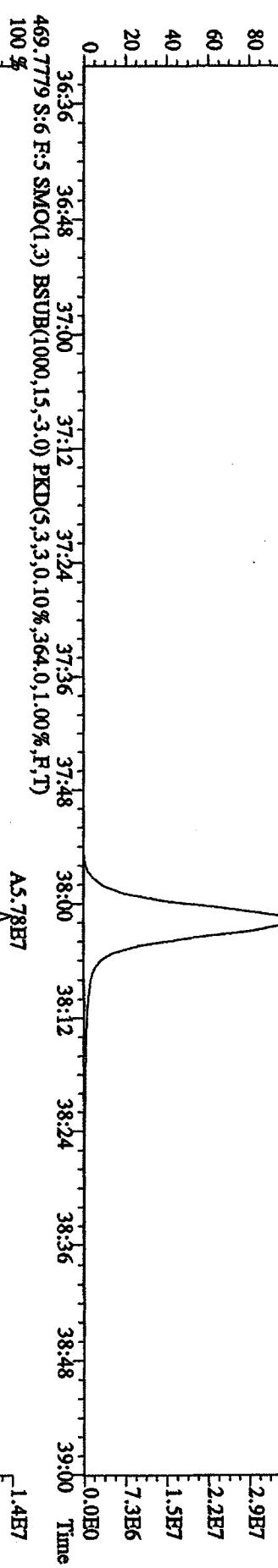
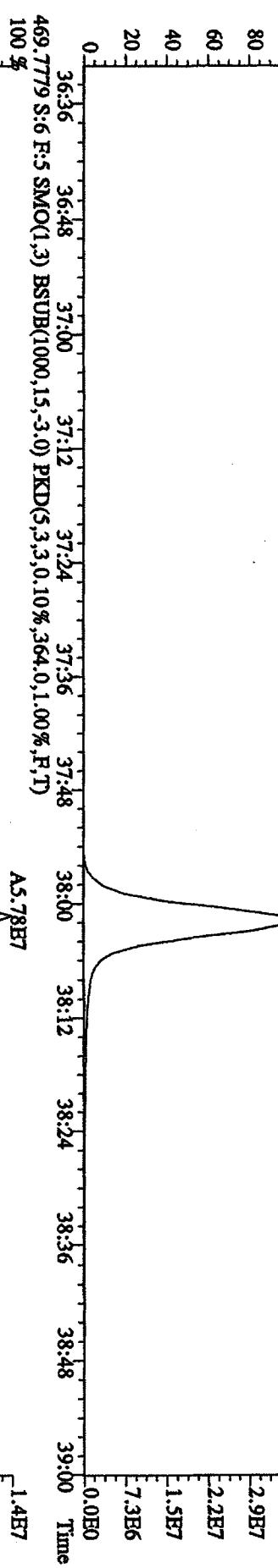
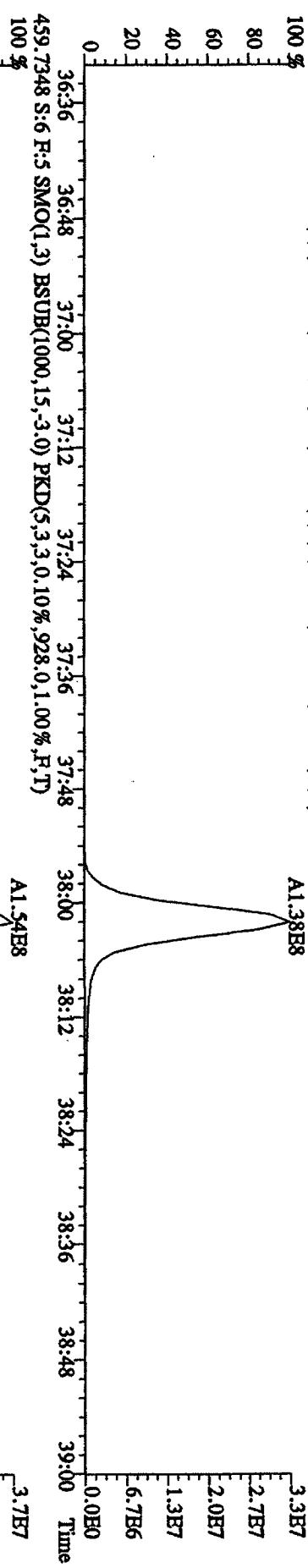
2.1E6

0.0E0

File:12AP104D5 #1-190 Acq:12-APR-2010 12:16:51 GC HI+ Voltage SIR Autospec-Ultimab
Sample#6 Text:ST0412D :CS4.09DXN426 Exp:DIOXINRES8290A
441.7428 S:6 R:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1388.0,1.00%,F,T)



File:12AP104D5 #1-190 Acq:12-APR-2010 12:16:51 GC El+ Voltage SIR AutoSpec-Ultimab
 Sample#6 Text:ST0412D :CS-4 09DXN426 Exp:DIOXINRES8290A
 45.7377 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2244.0,1.00%,F,T)
 100 %

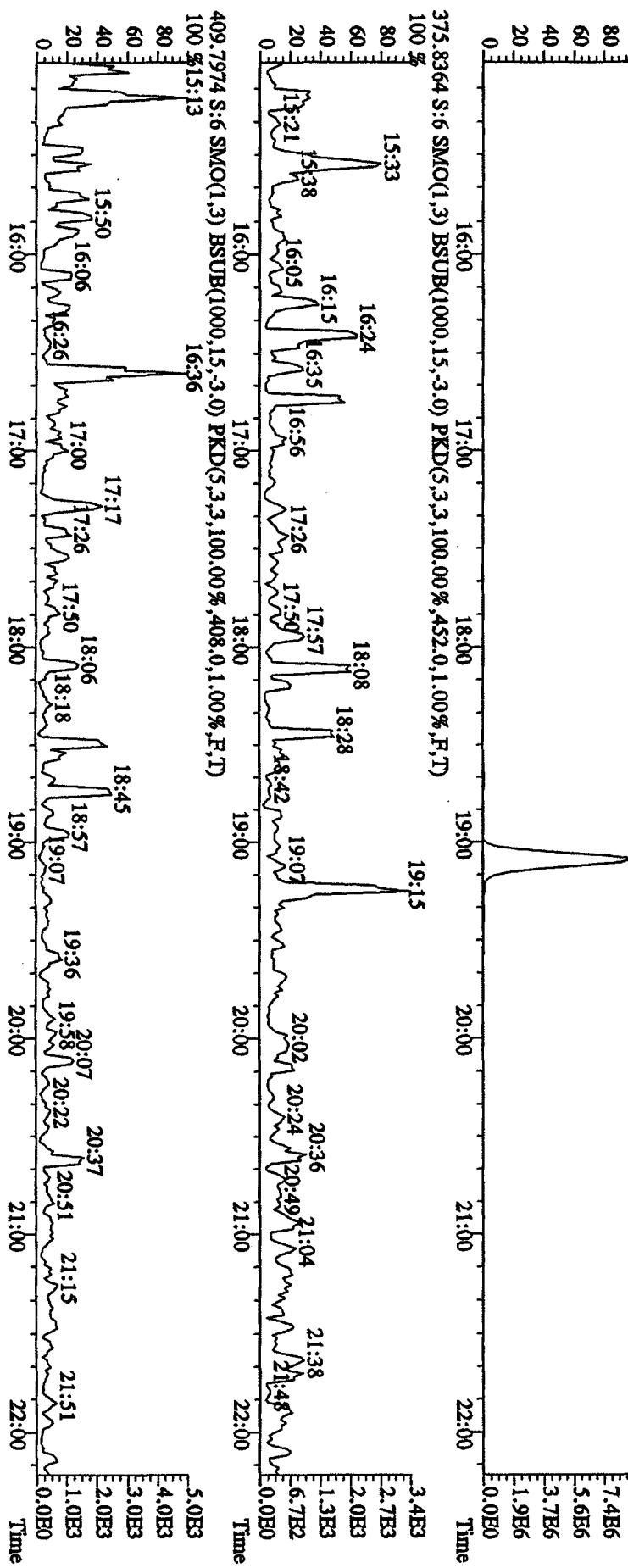
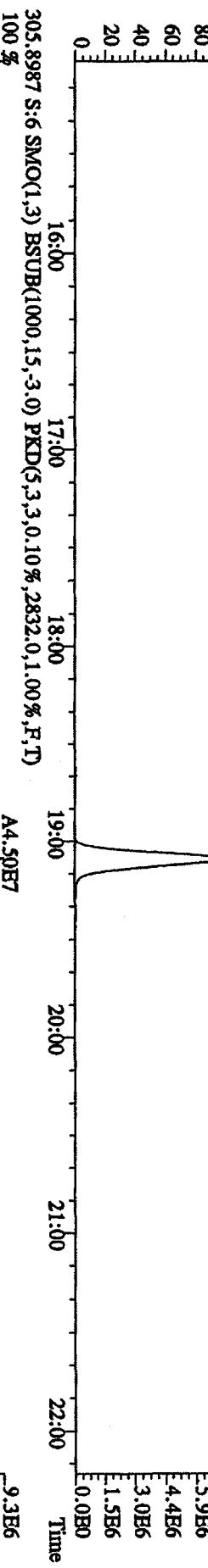
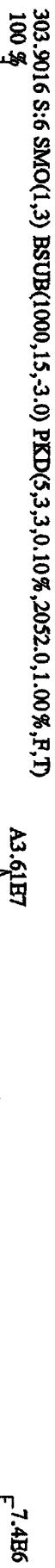
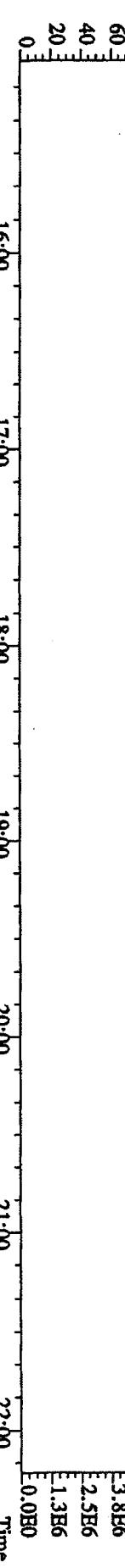


Sample#6 Text:ST0412D ;CS-4 09DXN426 Exp:DIOXINRES8290A

354.9792 S:6 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)

100 % 15:23 16:32 16:37 17:43 18:09 18:52 19:40 20:11 20:38 21:08 21:36

80
60
40
20
0



File:12AP104D5 #1-604 Acq:12-APR-2010 12:16:51 GC HI+ Voltage SIR Autospec-UltimaB

Sample#6 Text:ST0412D CS:4 09DXN426 Exp:DIOXINRHS8290A

354.9792 S:6 R:2 SMO(1,3) PKD(5,3,3,100.00%,0.01%,F,T)

100 % 22:28 23:03 23:30 23:56 24:39 25:27 25:57 26:30 27:00 27:49 28:16 28:59 29:30 7.6E6

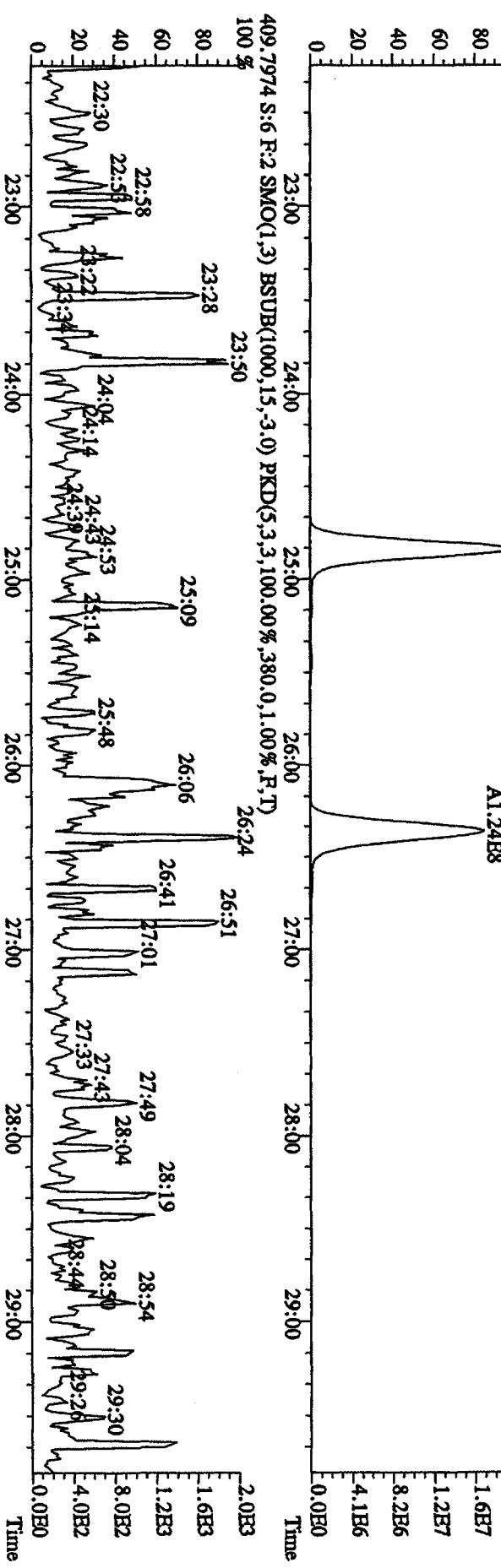
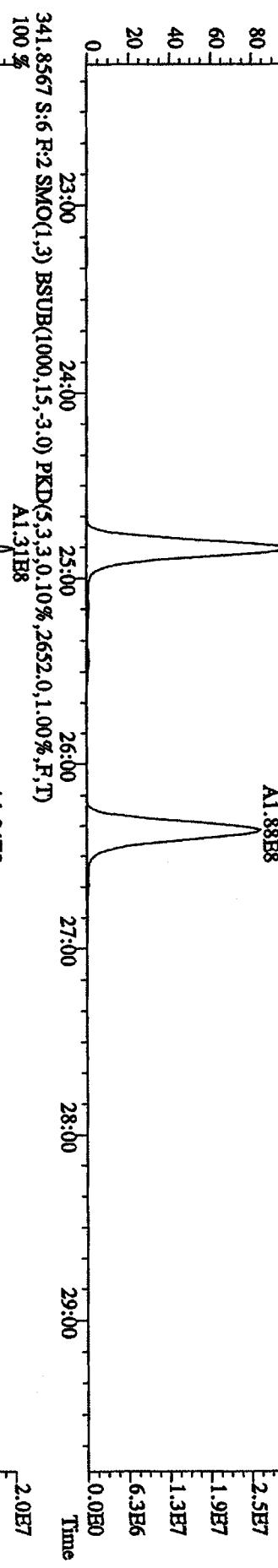
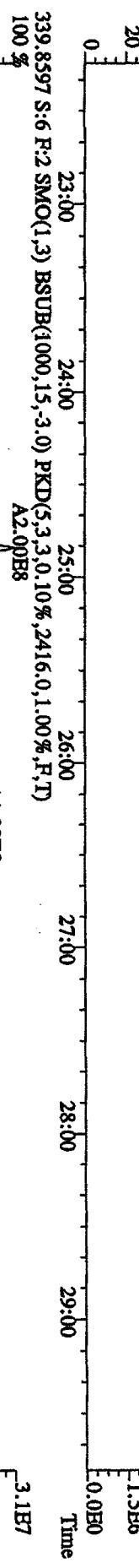
80 22:28 23:03 23:30 23:56 24:39 25:27 25:57 26:30 27:00 27:49 28:16 28:59 29:30 6.1E6

60 22:28 23:03 23:30 23:56 24:39 25:27 25:57 26:30 27:00 27:49 28:16 28:59 29:30 4.6E6

40 22:28 23:03 23:30 23:56 24:39 25:27 25:57 26:30 27:00 27:49 28:16 28:59 29:30 3.0E6

20 22:28 23:03 23:30 23:56 24:39 25:27 25:57 26:30 27:00 27:49 28:16 28:59 29:30 1.5E6

0 22:28 23:03 23:30 23:56 24:39 25:27 25:57 26:30 27:00 27:49 28:16 28:59 29:30 0.0E0



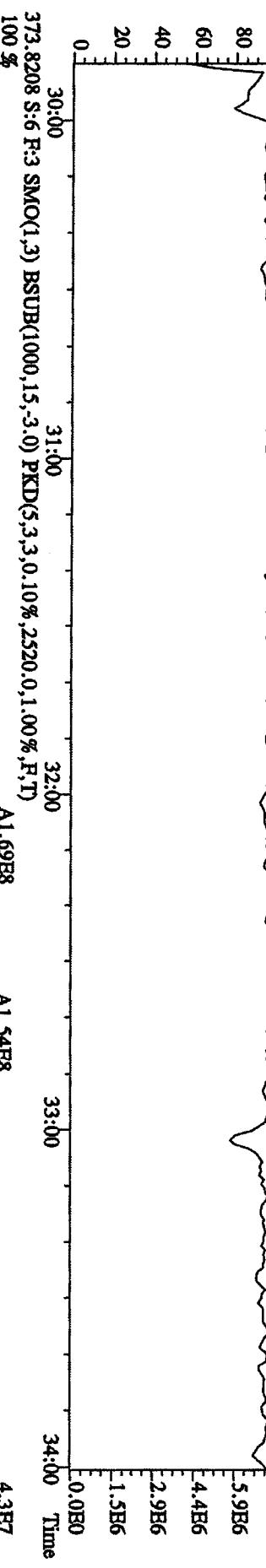
File:12AP104D5 #1:317 Acq:12-APR-2010 12:16:51 GC HI+ Voltage SIR Autospec-UltimaB

Sample#6 Text:ST0412D :CS4.09DXN426 Exp:DOXINRES8290A

430.9728 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)

100 % 30:07 30:24 30:49 31:02 31:16 31:34 31:47 32:18 32:35 32:50 33:12 33:36 33:52 7.3E6

80 60 40 20 0 5.9E6 4.4E6 2.9E6 1.5E6 0.0E0 Time



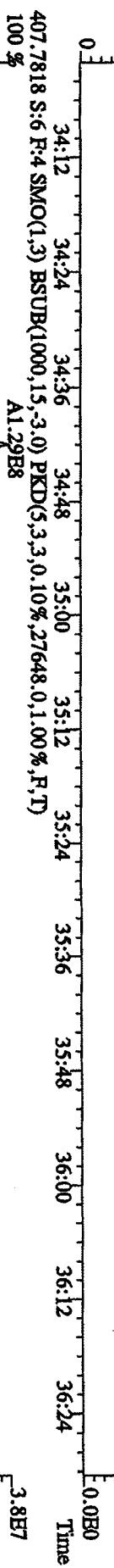
File:12AP104D5 #1-198 Acq:12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-UltimaB
Sample#6 Text:ST10412D :CS-4 09DXN426 Exp:DIOXINRHS8290A

430.9728 S:6 F:4 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)

100 % 34:07 34:17 34:28 34:37 34:47 34:57 35:05 35:15 35:31 35:41 35:51 36:09 36:19 7.9E6

80 60 40 20 0

6.4E6
4.8E6
3.2E6
1.6E6

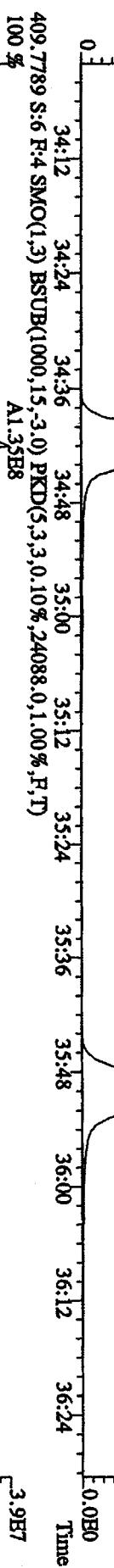


100 % 34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 Time

80 60 40 20 0

3.8E7
3.0E7
2.3E7
1.5E7
7.5E6
0.0E0

A1.02E8

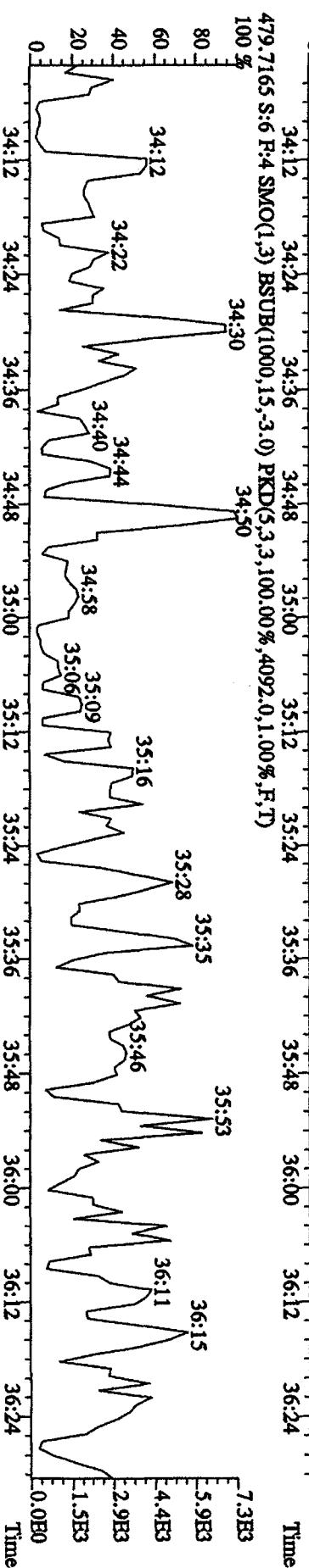


100 % 34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 Time

80 60 40 20 0

3.9E7
3.1E7
2.3E7
1.6E7
7.8E6
0.0E0

A1.05E8



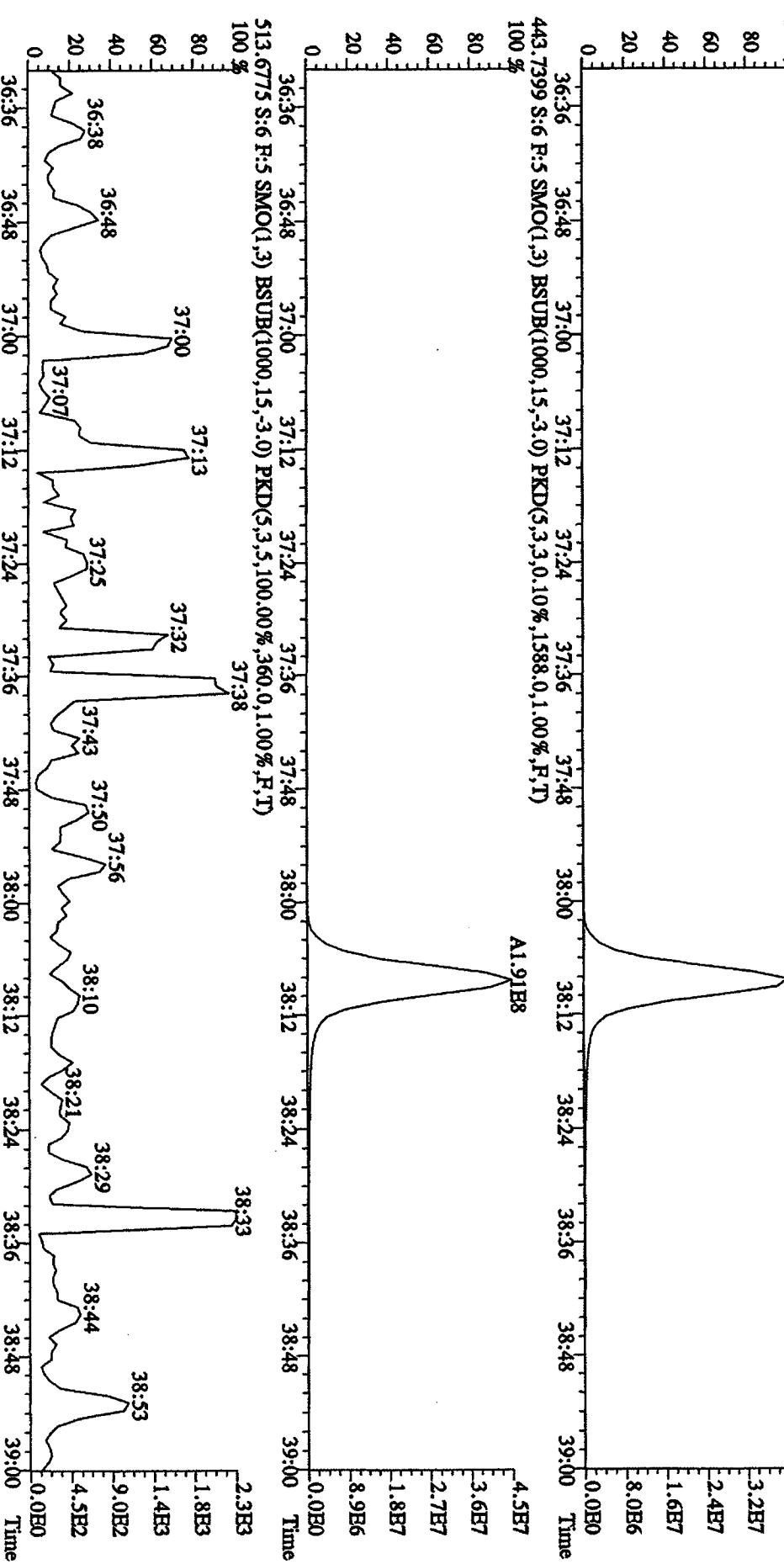
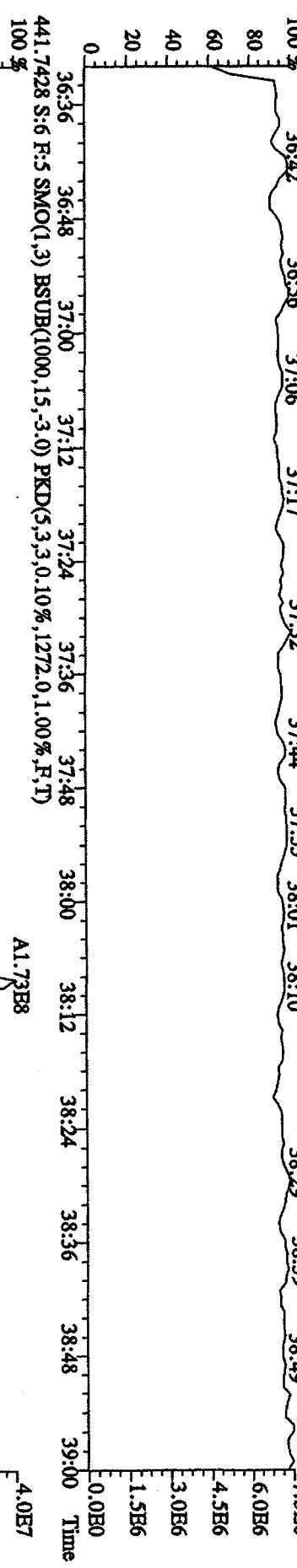
100 % 34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 Time

80 60 40 20 0

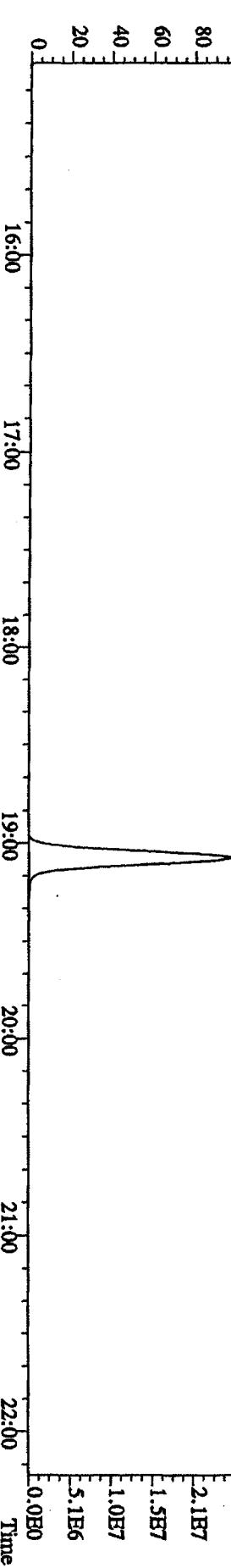
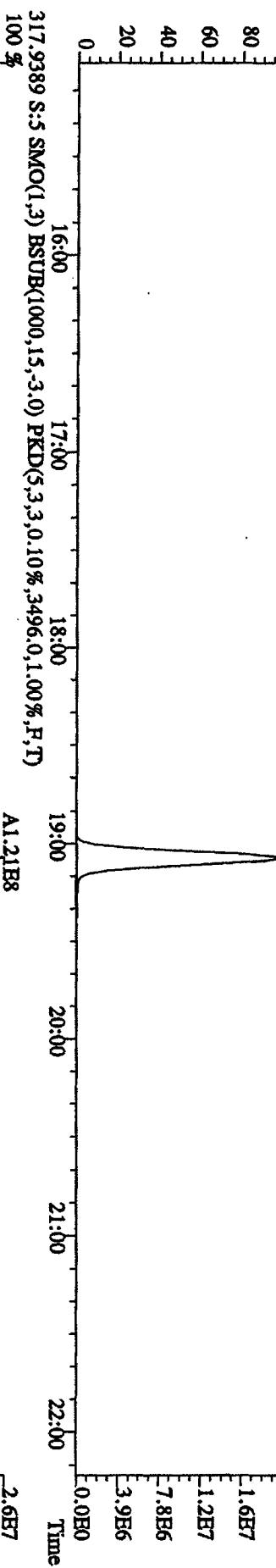
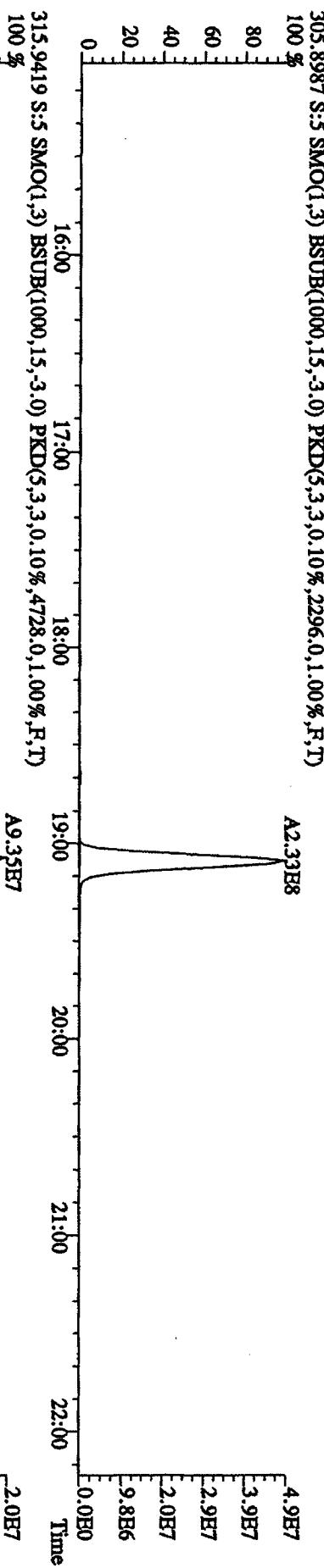
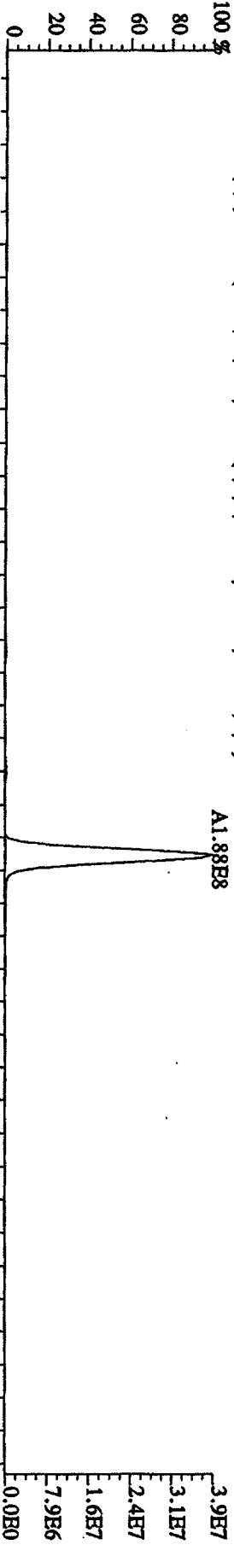
7.3E3
5.9E3
4.4E3
2.9E3
1.5E3
0.0E0

Sample#6 Text:ST0412D :CS-4 09DDXN426 Exp:DIOXINRHS8290A

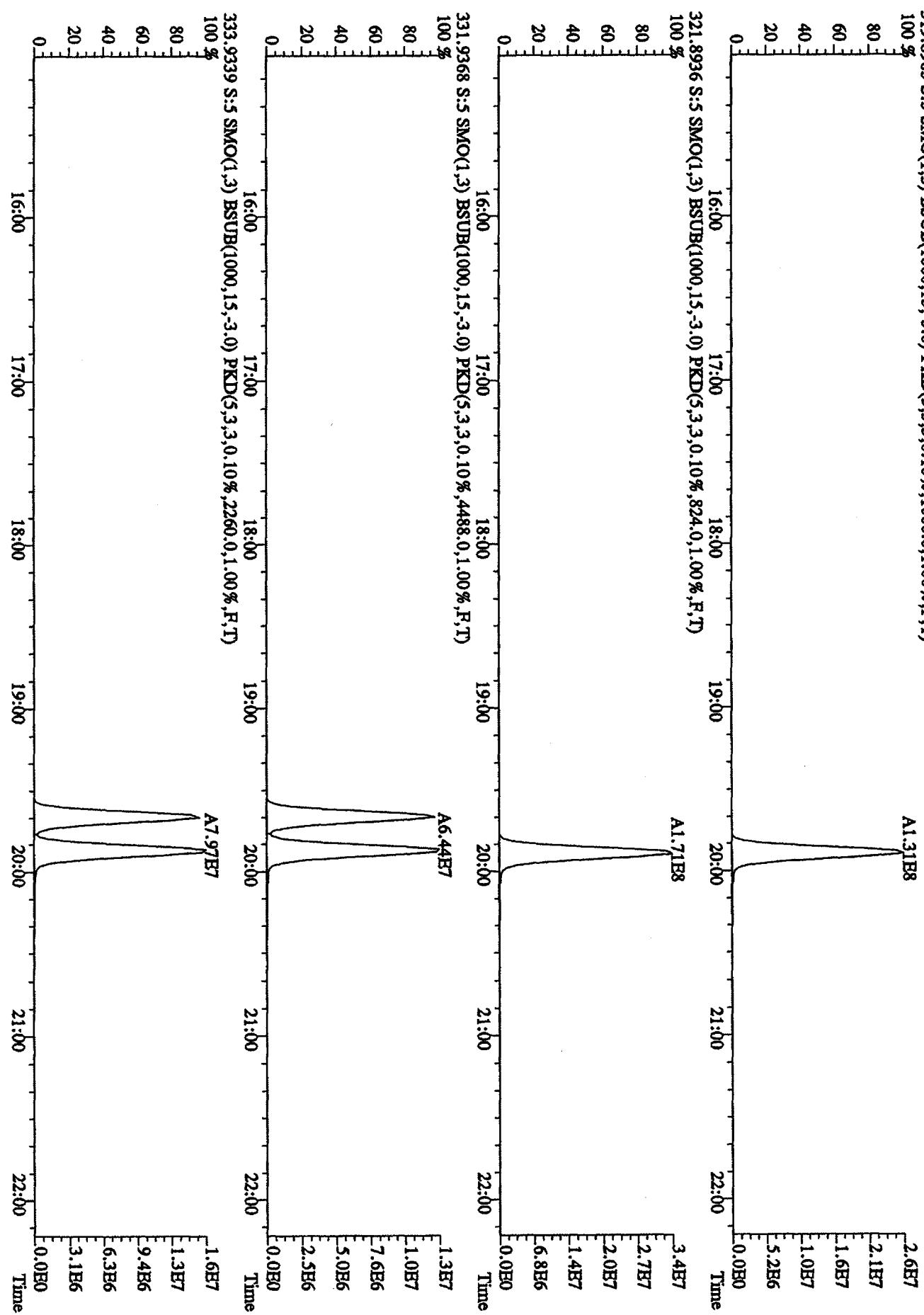
442.9728 S:6 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:12AP104D5 #1-435 Acq:12-APR-2010 11:32:49 GC HI+ Voltage SIR Autospec-Ultimate
 Sample#5 Text:ST0412C :CS-5 09DXN456 Exp:DIOXINRBS8290A
 303.9016 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2960,0,1.00%,F,T)
 100 % A1.88E8



File:12AP104D5 #1-435 Acq:12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-Ultimate
 Samples#5 Text:ST0412C :CS-5,09DXN456 Exp:DIODIXNRES8290A
 319.8965 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1000.0,1.00%,F,T)
 100 %



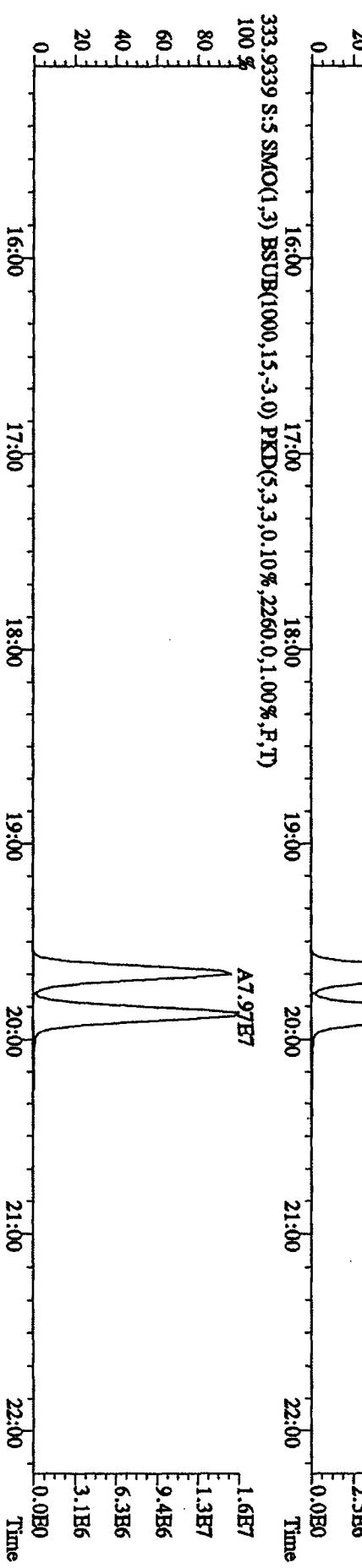
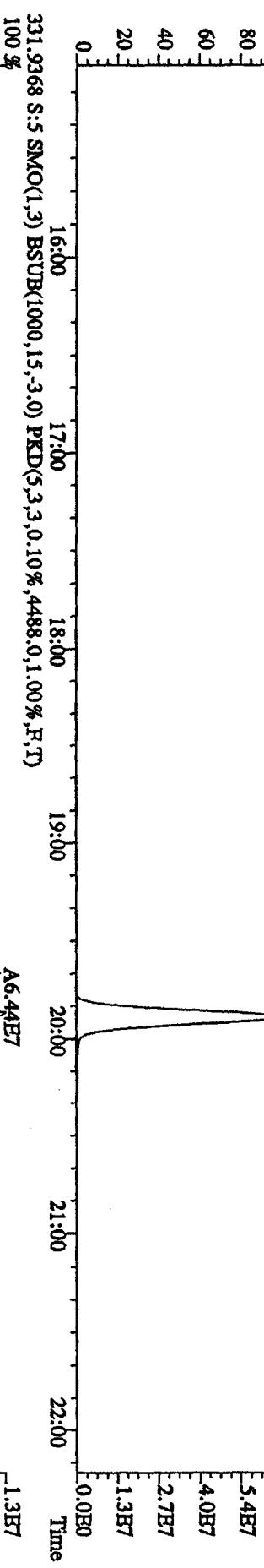
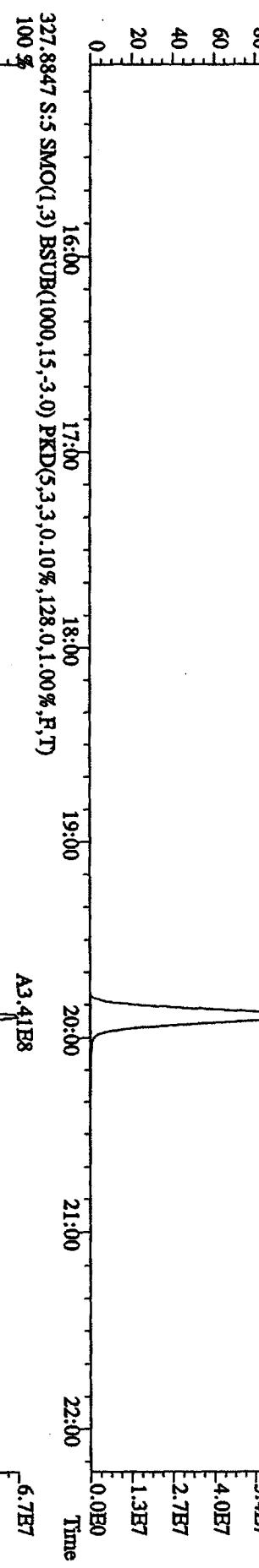
File:12AP104D5 #1-435 Acc:12-APR-2010 11:32:49 GC HI+ Voltage SIR Autospec-Ultimate

Sample#5 Text:ST0412C ;CS-5 09DXN456 Exp:DIOXINRESS8290A

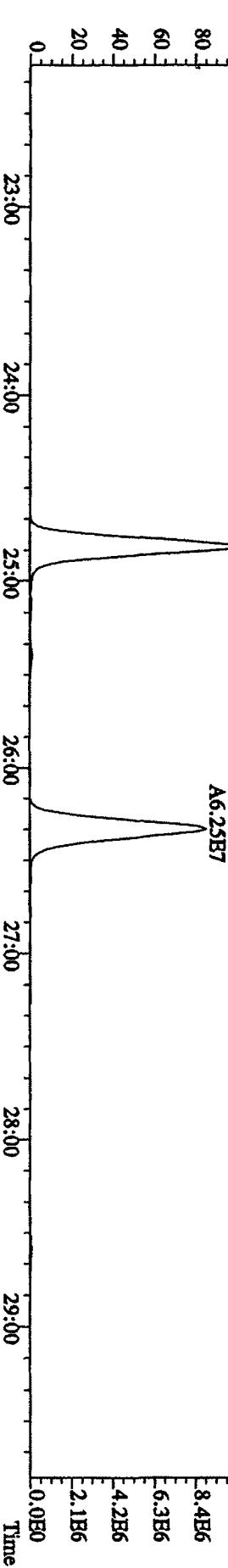
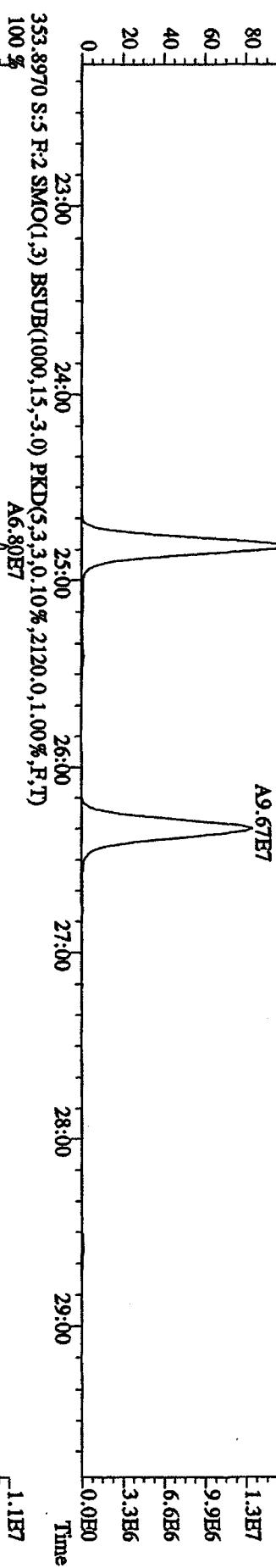
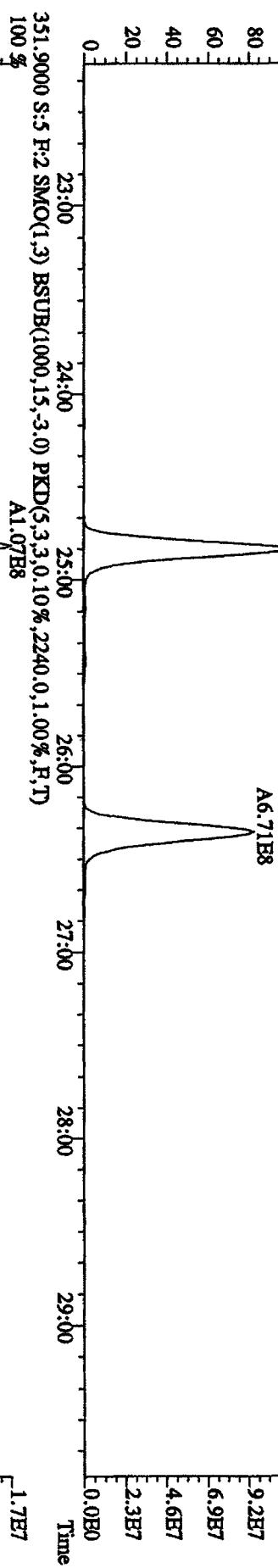
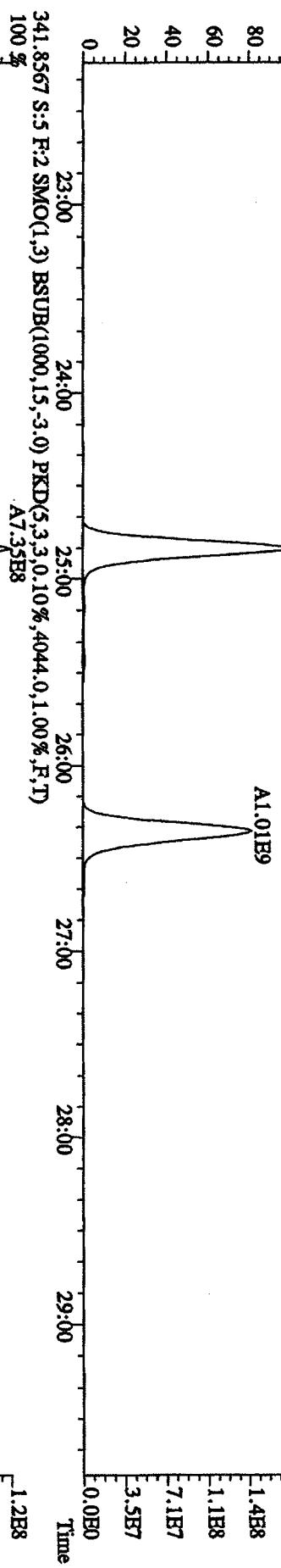
327.8&47 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,128.0,1.00%,F,T)

100 %

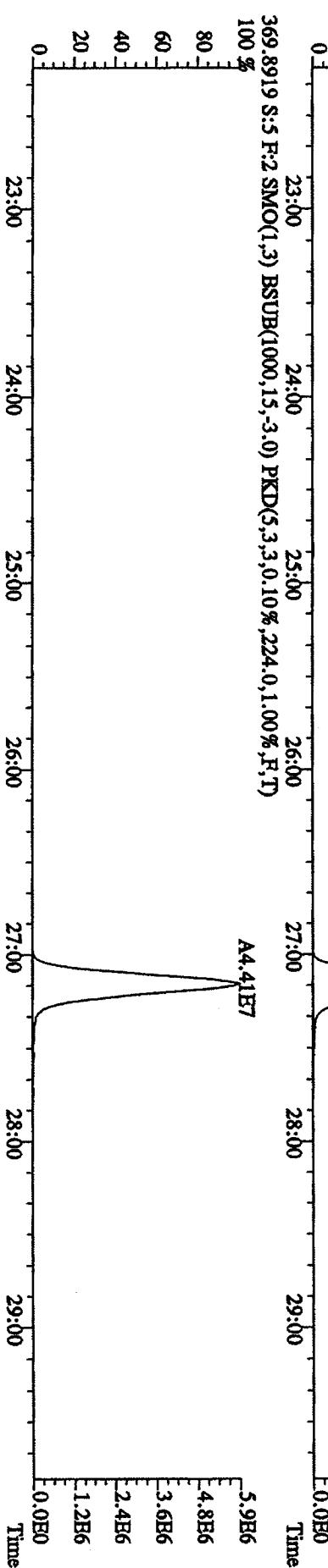
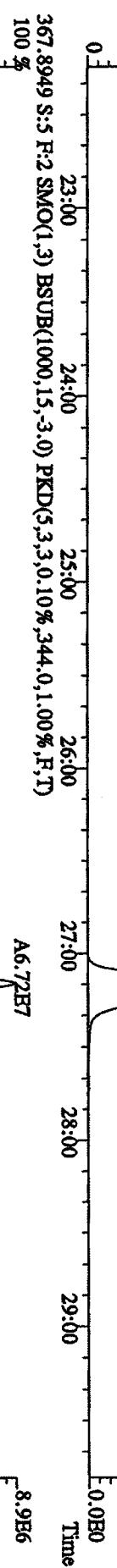
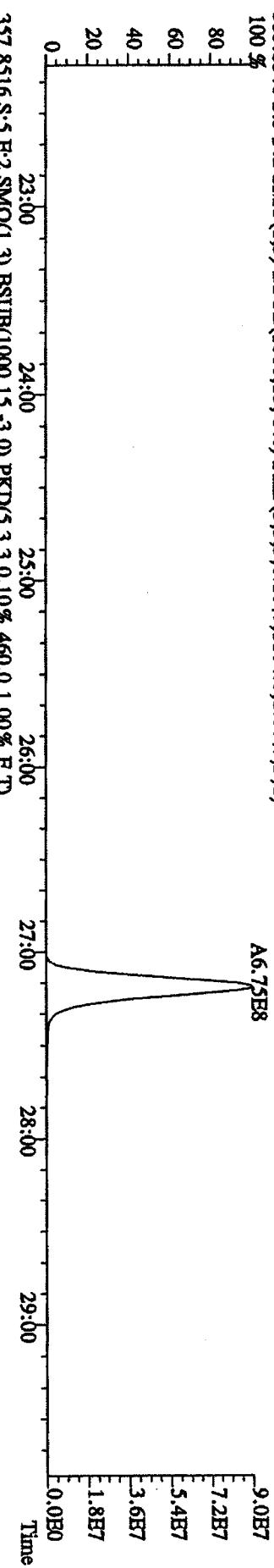
80
60
40
20
0



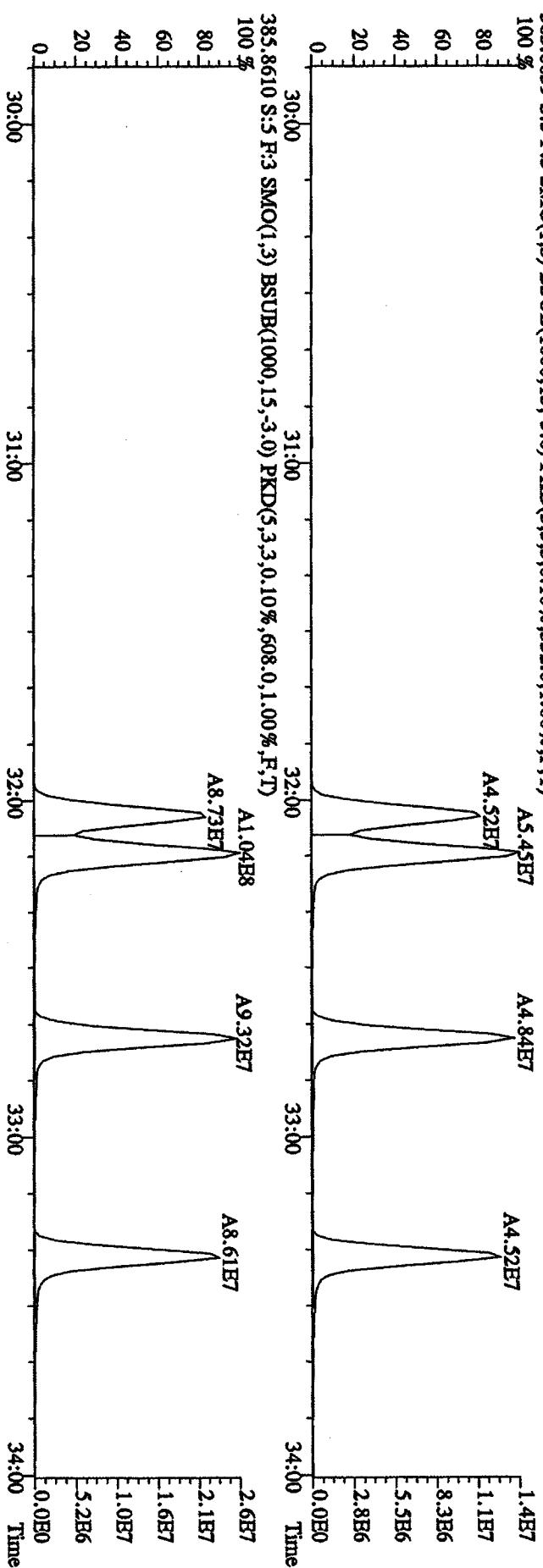
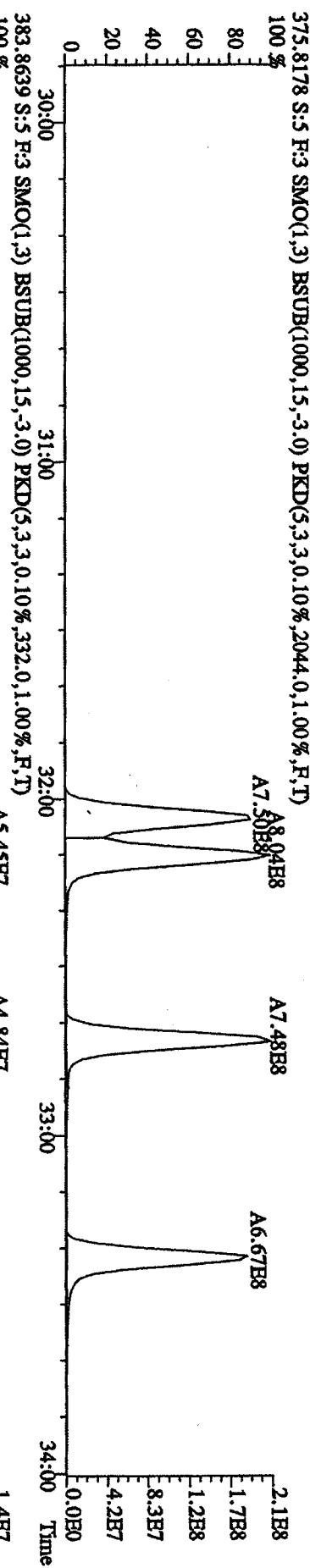
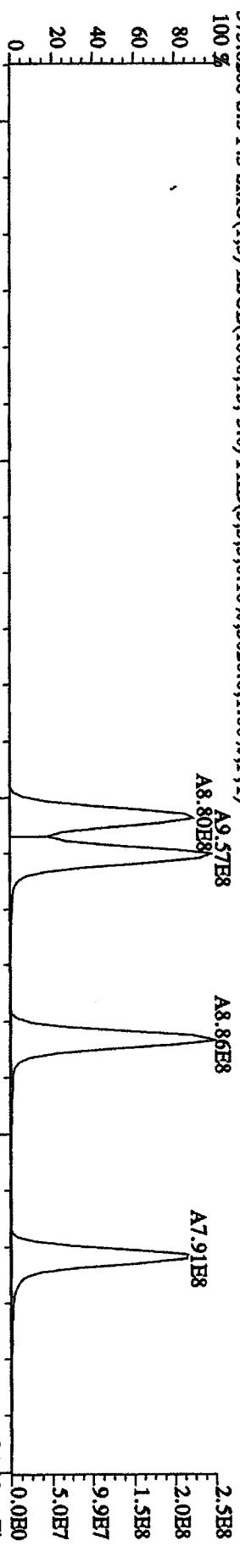
File:12AP104DS #1-604 Acq:12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#5 Text:ST0412C :CS-5 09DXKN456 Exp:DIOXINRES8290A
 339.8597 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8368.0,1.00%,F,T)
 A1.12E9 1.8E8
 80 1.4E8
 60 1.1E8
 40 7.1E7
 20 3.5E7
 0 0.0E0



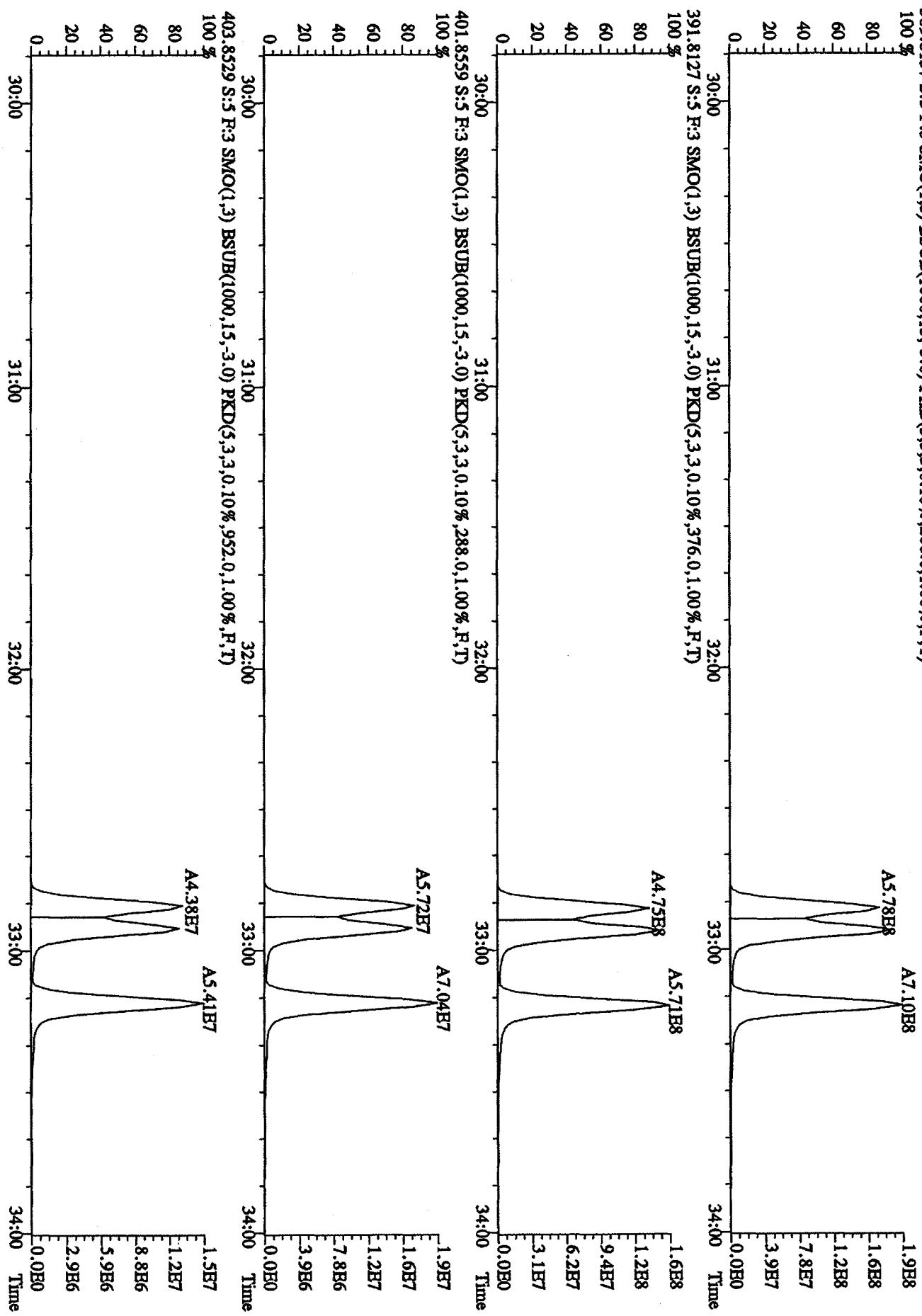
File:12AP104D5 #1-604 Acq:12-APR-2010 11:32:49 GC HI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0412C :CS-5 09DXN456 Exp:DIOXINRES8290A
355.8546 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,460.0,1.00%,F,T)
100 %



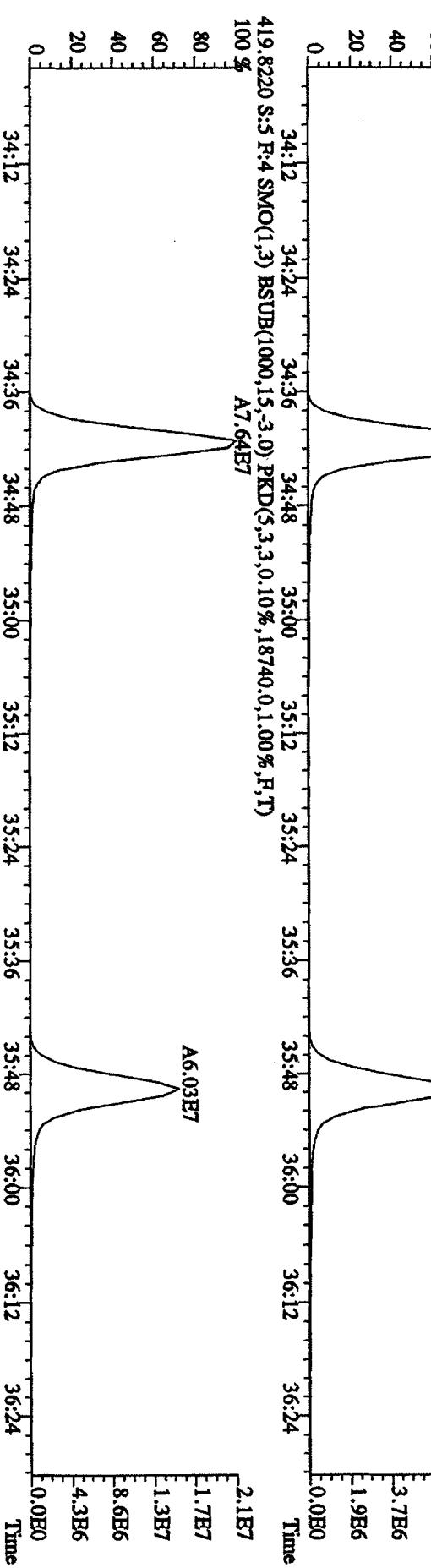
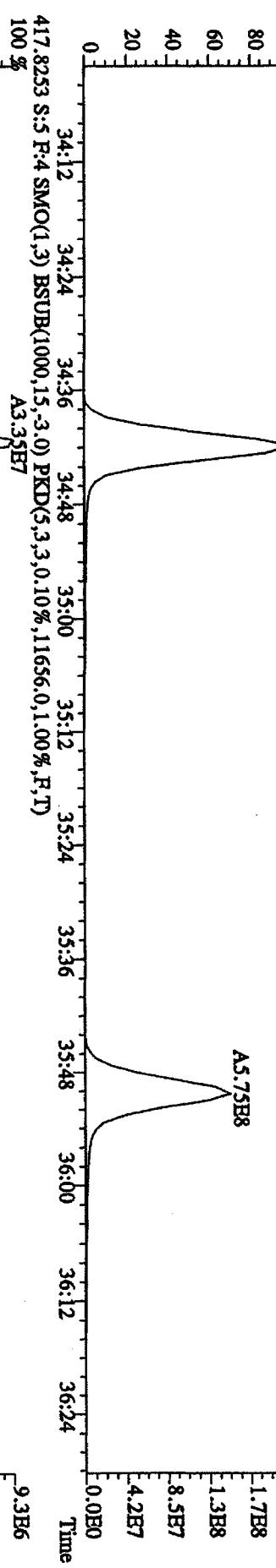
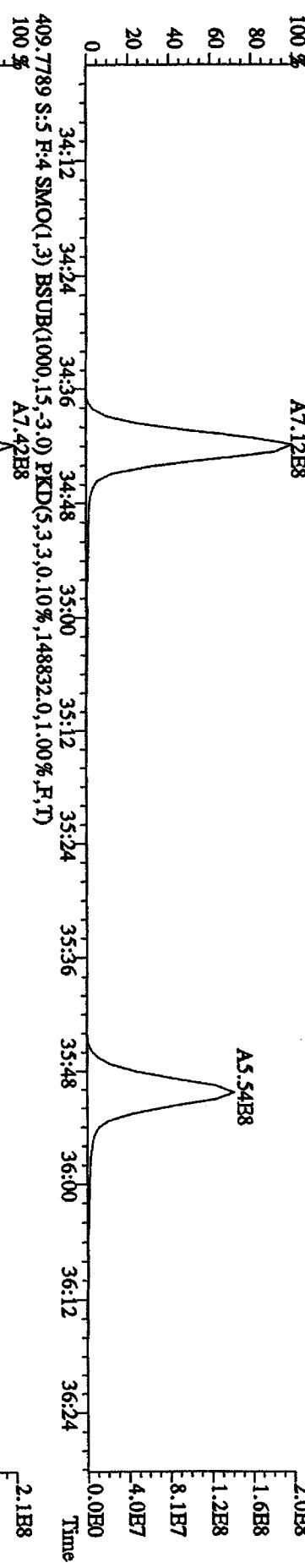
File:12AP104D5 #1317 Acq:12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:STU412C .CS:5 09DXN456 Exp:DOXINRES829A
373.8208 S:5 R:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3020.0,1.00%,F,T)



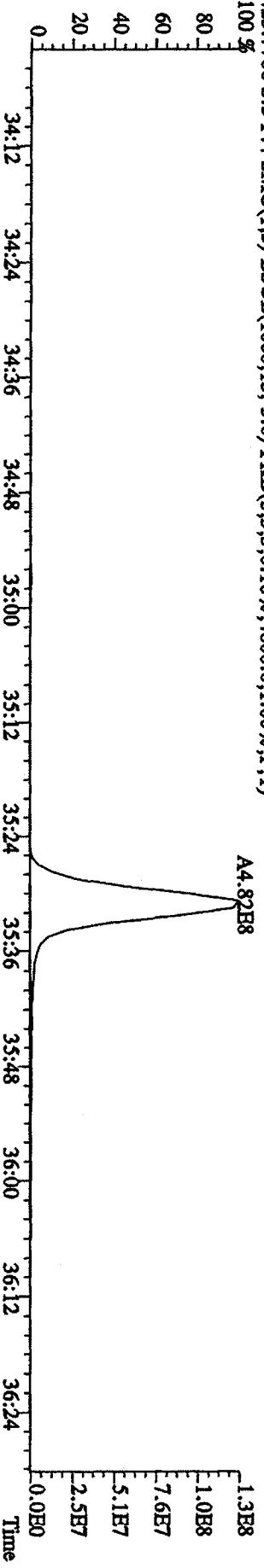
File:12AP104DS5 #1-317 Acq:12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#5 Text:ST0412C CS_5_09DXN456 Exp:DIOXINRES8290A
 389.8157 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,208.0,1.00%,F,T)
 100 %
 80
 60
 40
 20
 0



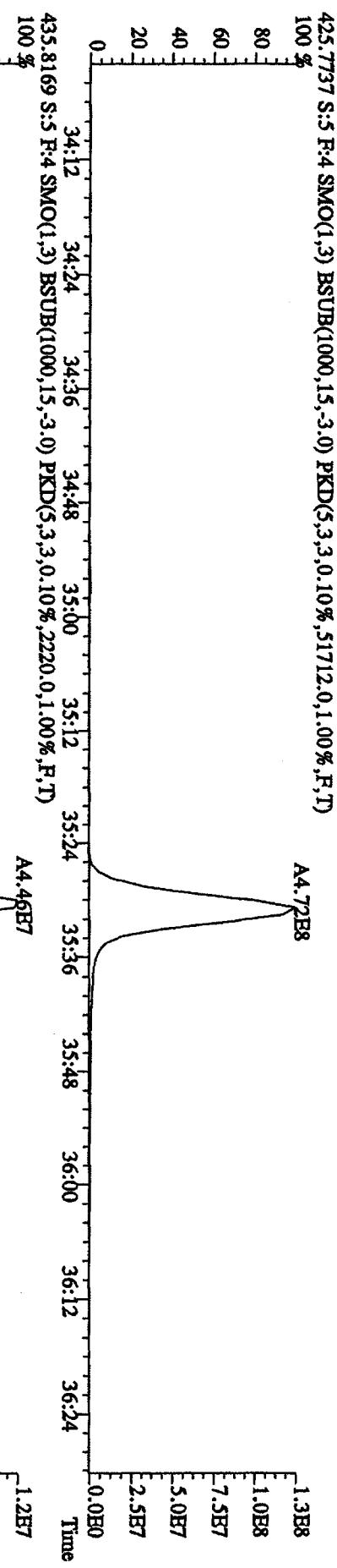
File:12AP104DS #1-198 Acq:12-APR-2010 11:32:49 GC HI+ Voltage SIR Autospec-Ultimate
 Samples#5 Text:ST10412C Exp:DIOXINRRESS8290A
 407.7818 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,81496.0,1.00%,F,T)
 100 % A7.12E8



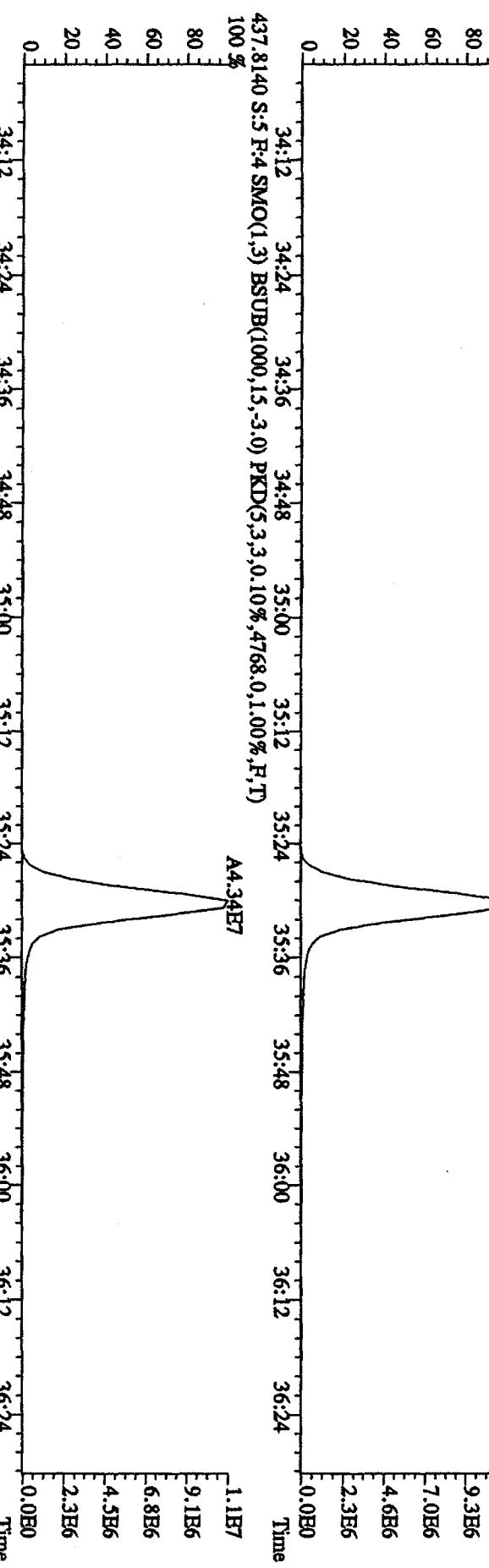
File:12AP104D5 #1-198 Acq:12-APR-2010 11:32:49 GC: HI+ Voltage SIR AutoSpec-Ultimate
 Sample#5 Text:ST0412C CS-5,09DXN456 Exp:DIOXINRHS8290A
 423.7766 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4800.0,1.00%,F,T)
 100 % A4.82E8



423.7737 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,51712.0,1.00%,F,T)
 100 % A4.72E8



435.8169 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2220.0,1.00%,F,T)
 100 % A4.46E7

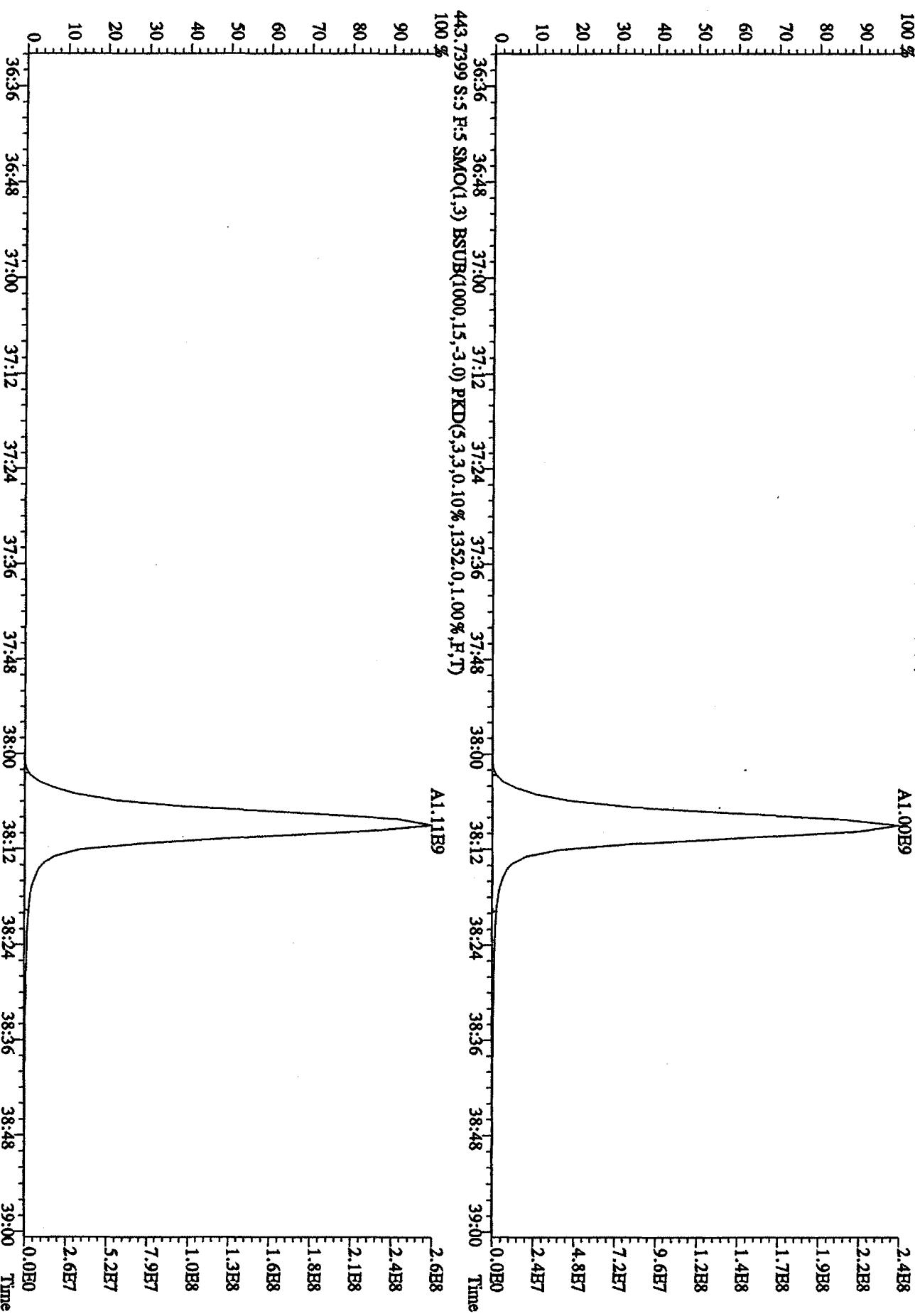


437.8140 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4768.0,1.00%,F,T)
 100 % A4.34E7

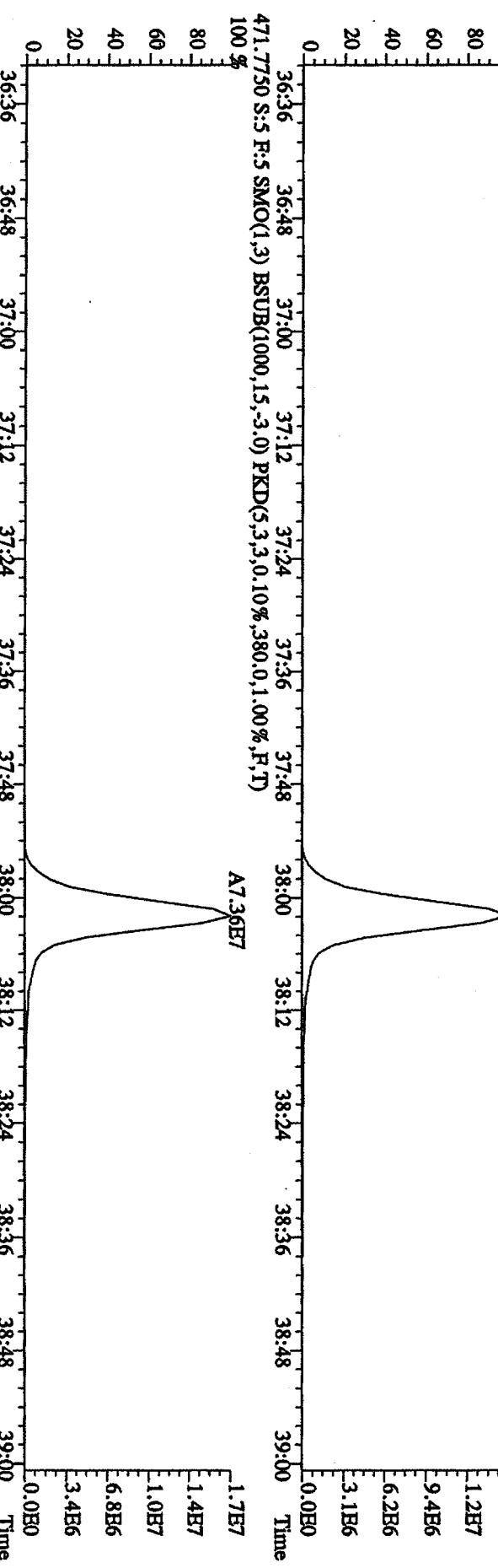
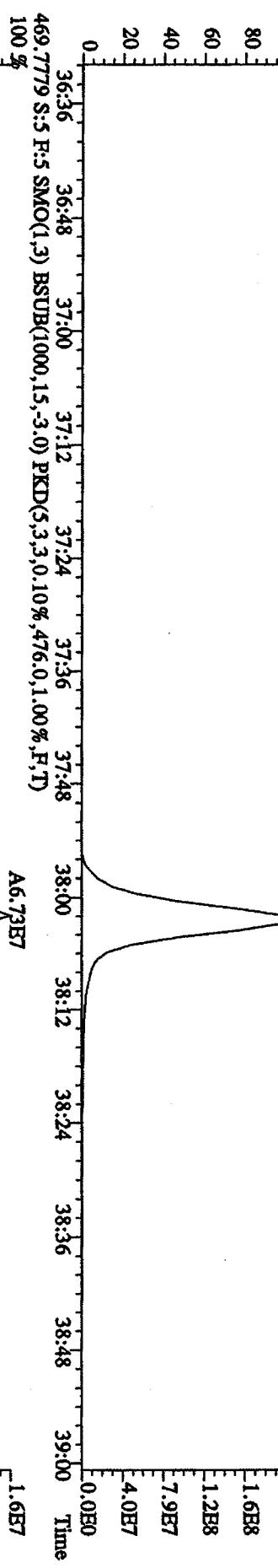
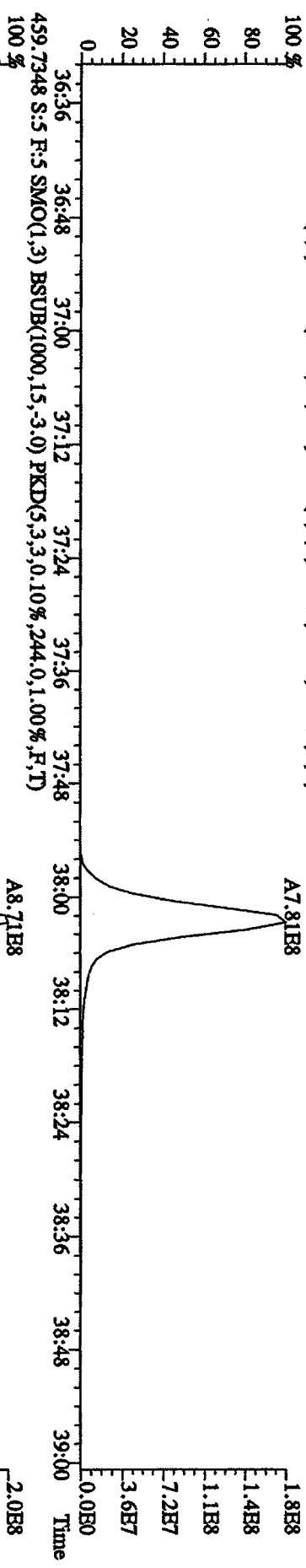


File:12AP104D5 #1-191 Acq:12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0412C :CS:5 09DXN456 Exp:DIOXINRES290A
441.7428 S:5 R:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1064.0,1.00%,R,T)
100 %

A1.11B9



File:12AP104D5 #1-191 Acq:12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-UltimaH
 Sample#:5 Text:ST0412C :CS-5 09DXN456 Exp:DIOXINRHS8290A
 457.7377 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,836,0,1.00%,F,T)
 100 %



Sample#5 Text:ST0412C CS-5 09DXN456 Exp:DIOXINRES290A

354.9792 S:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

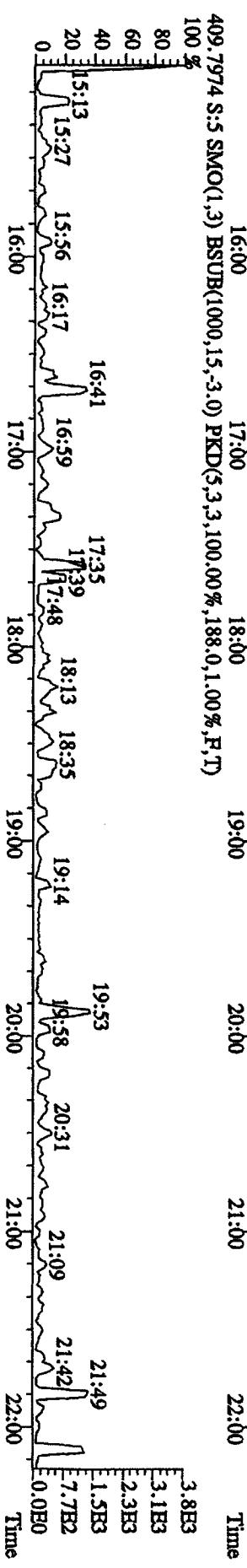
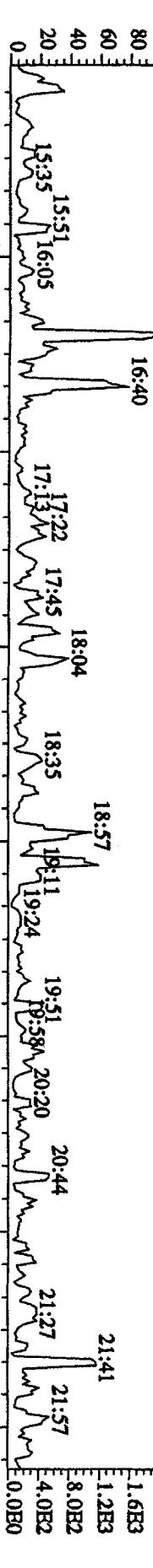
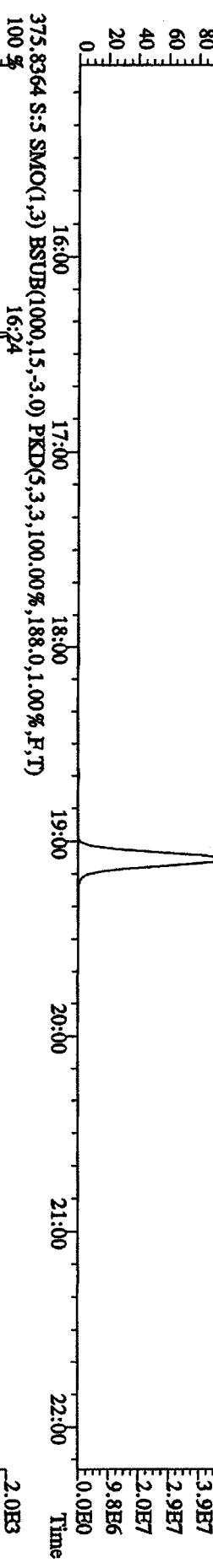
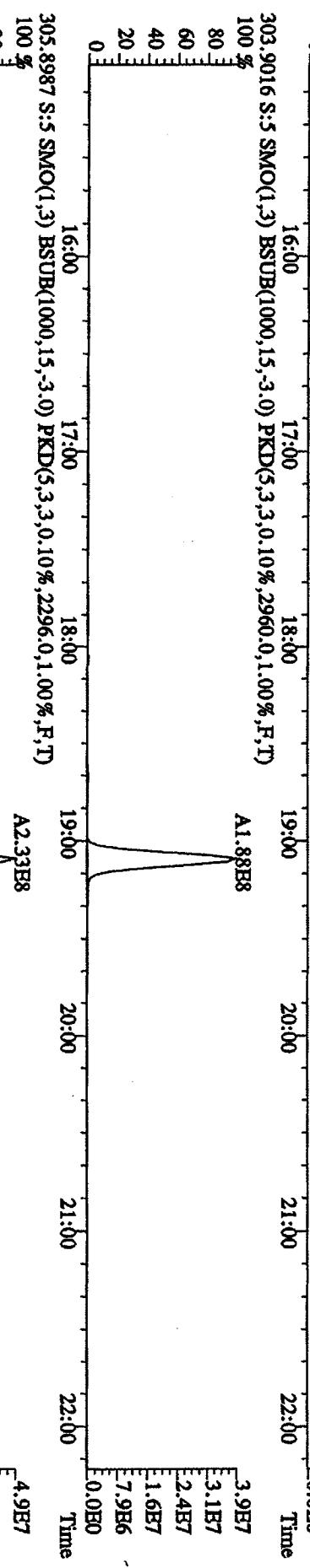
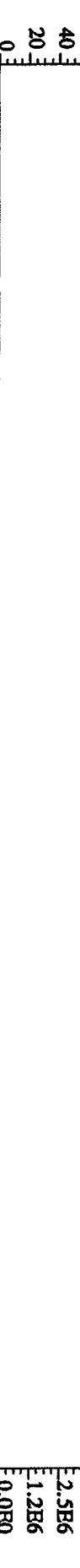
100 % 15:28 15:57 16:26 16:49 17:17 18:25 18:46 19:23 19:48 20:17 21:02 21:33 21:56 6.2E6

80 15:28 15:57 16:26 16:49 17:17 18:25 18:46 19:23 19:48 20:17 21:02 21:33 21:56 5.0E6

60 15:28 15:57 16:26 16:49 17:17 18:25 18:46 19:23 19:48 20:17 21:02 21:33 21:56 3.7E6

40 15:28 15:57 16:26 16:49 17:17 18:25 18:46 19:23 19:48 20:17 21:02 21:33 21:56 2.5E6

20 15:28 15:57 16:26 16:49 17:17 18:25 18:46 19:23 19:48 20:17 21:02 21:33 21:56 1.2E6



File:12AP104D5 #1-604 Acq:12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-Ultimate

Sample#5 Text:ST0412C iGS-5 09DXN456 Exp:DXOXINRBS8290A

354.9792 S:5 R:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 % 22:52 23:30 23:54 24:28 24:57 25:22 25:45 26:12 26:38 27:19 27:43 28:16 28:59 29:25 7.4E6

80 20 40 60 80 0.0E0 Time

339.8597 S:5 R:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8368.0,1.00%,F,T)

100 % A1.12E9 80 60 40 20 0.0E0 Time

341.8567 S:5 R:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4044.0,1.00%,F,T)

A7.35E8 80 60 40 20 0.0E0 Time

A1.01E9 80 60 40 20 0.0E0 Time

A6.71E8 80 60 40 20 0.0E0 Time

1.8E8 1.4E8 1.1E8 7.1E7 3.5E7 0.0E0 Time

1.2E8 9.2E7 6.9E7 4.6E7 2.3E7 0.0E0 Time

23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

20:00 21:00 22:00 23:00 24:00 25:00 26:00 27:00 28:00 29:00 Time

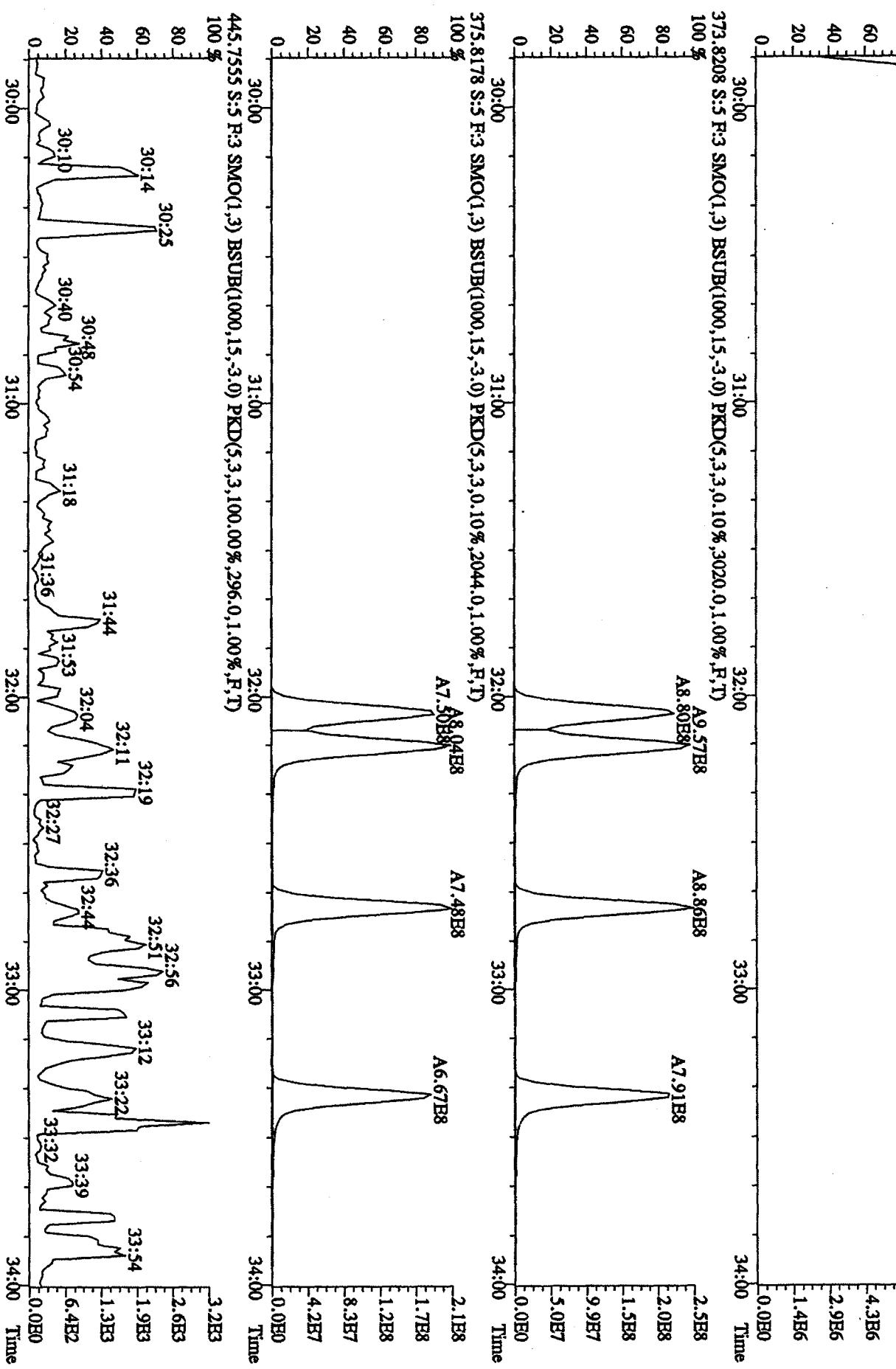
File:12AP104D5 #1-317 Acq:12-APR-2010 11:32:49 GC HI+ Voltage,SIR Autospec-UltimaE

Sample#5 Text:ST10412C :CS-5.09DXN456 Exp:DIOXINRES8290A

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

100 % 29.58 30:20 30:40 31:02 31:20 31:38 31:59 32:34 32:55 33:10 33:23 33:46 7.1E6

80 60 40 20 0 5.7E6 4.3E6 2.9E6 1.4E6 Time

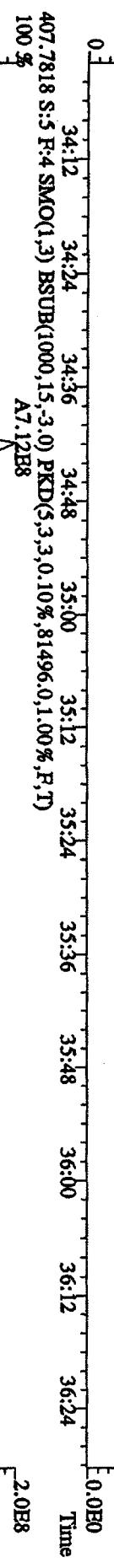


File:12AP104D5 #1-198 Acq:12-APR-2010 11:32:49 GC HI+ Voltage SIR Autospec-Ultimate

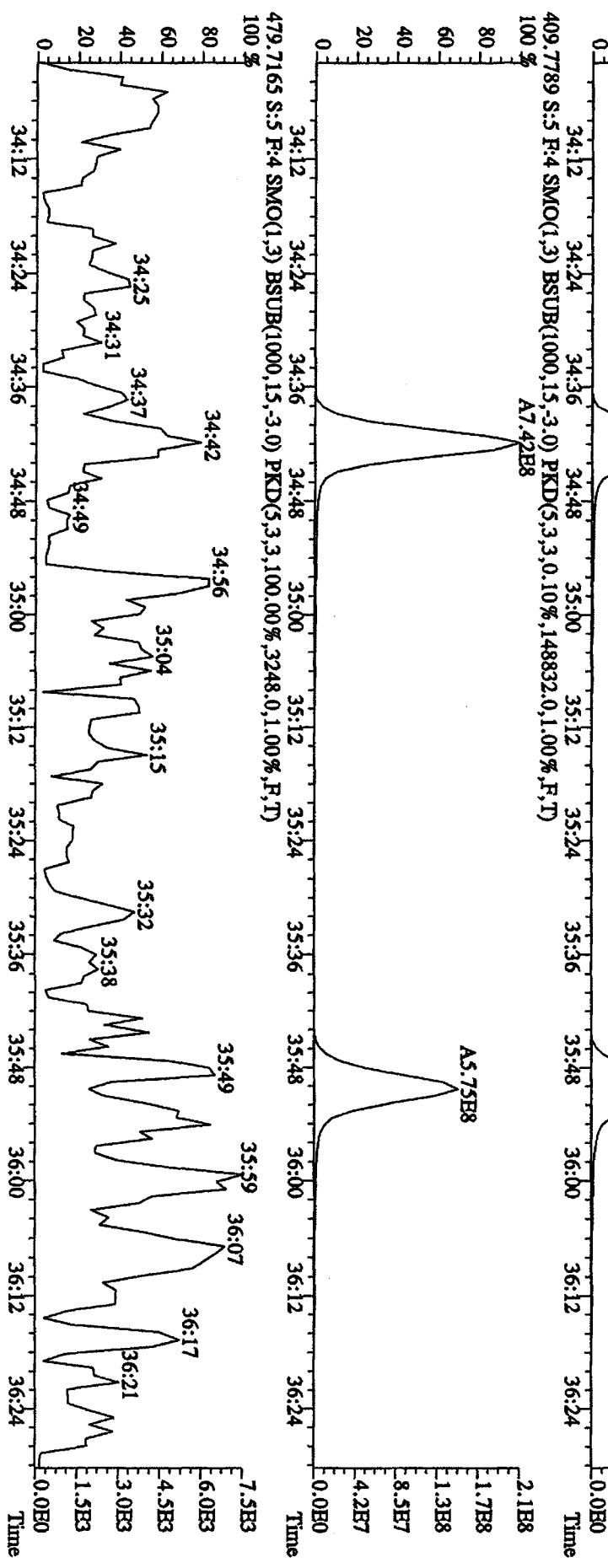
Sample#5 Text:ST0412C :CS:5.09DXN456 Exp:DIOXINRES8290A

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

100 % 34:06 34:14 34:27 34:37 34:44 34:55 35:04 35:17 35:33 35:43 35:57 36:07



A5.75E8



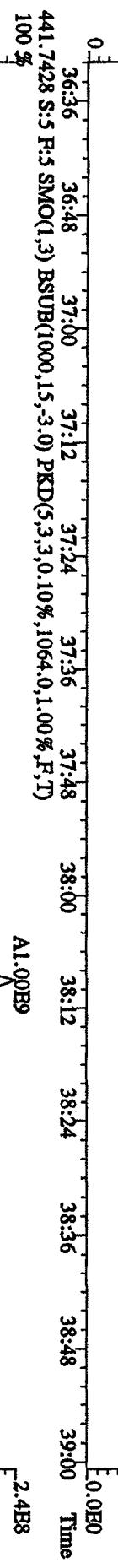
File:12AP104D5 #1-191 Acq:12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-Ultimate

Sample#5 Text:ST0412C :CS:5 09DXN456 Exp:DIOXINRHS8290A

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

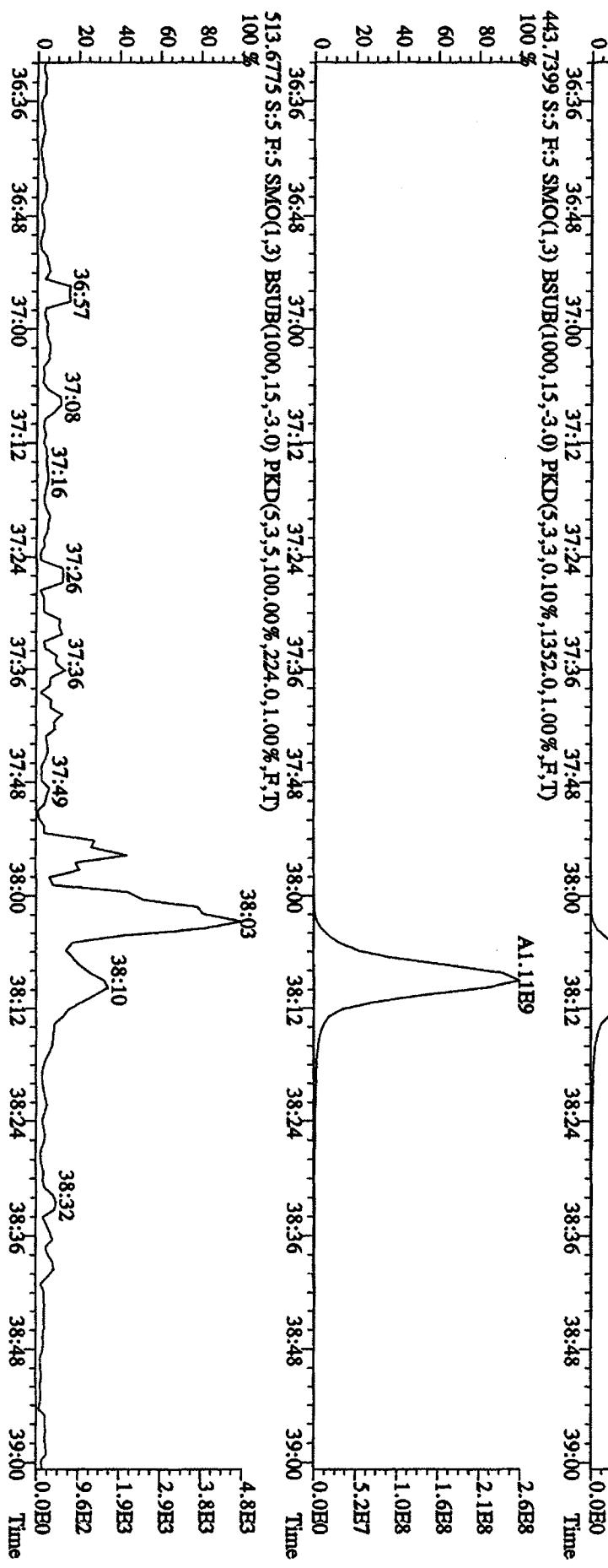
100 % 36:37 36:50 37:03 37:19 37:25 37:46 37:57 38:14 38:23 38:33 38:42 38:50

80
60
40
20
0 7.3E6

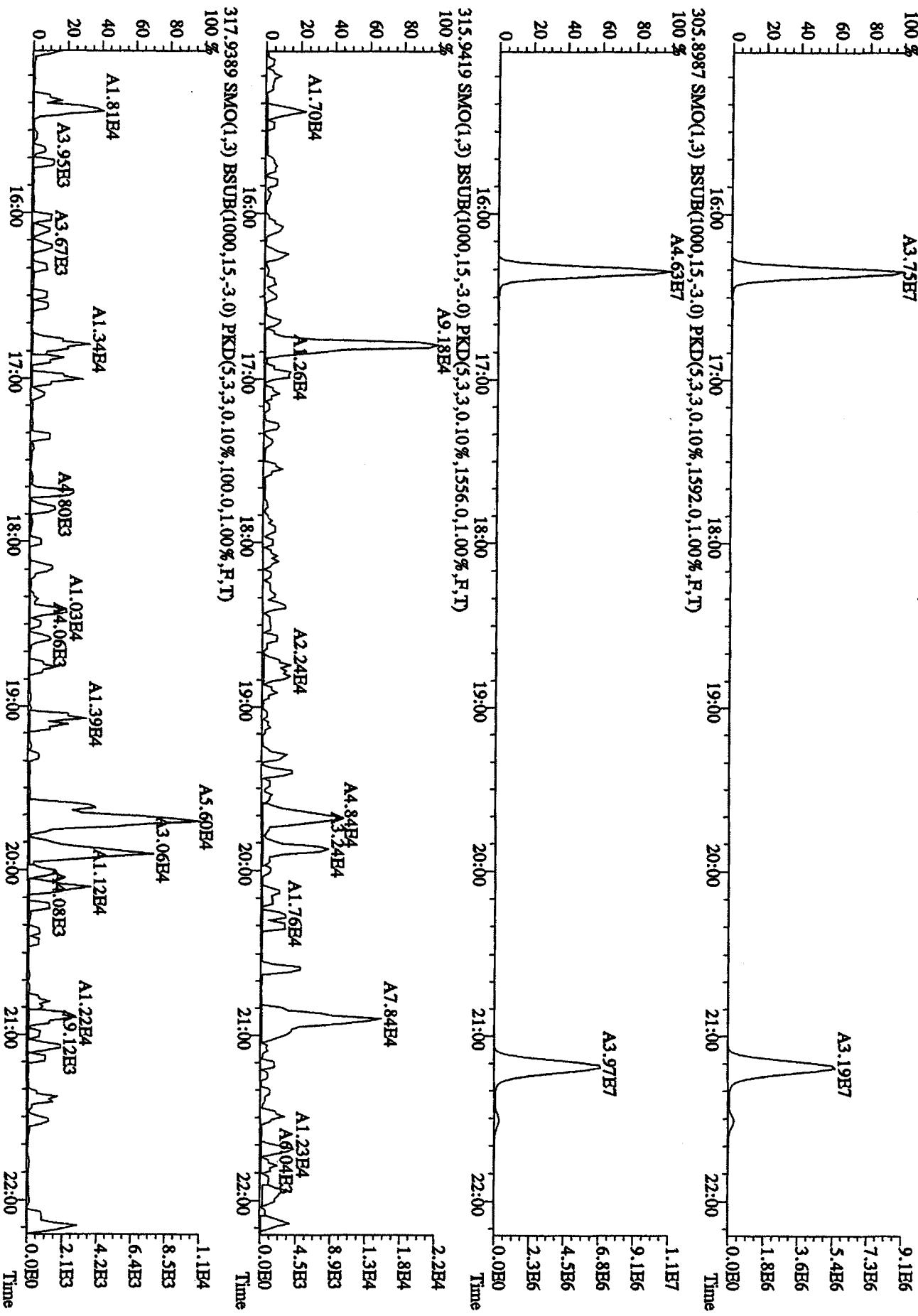


A1.11E9

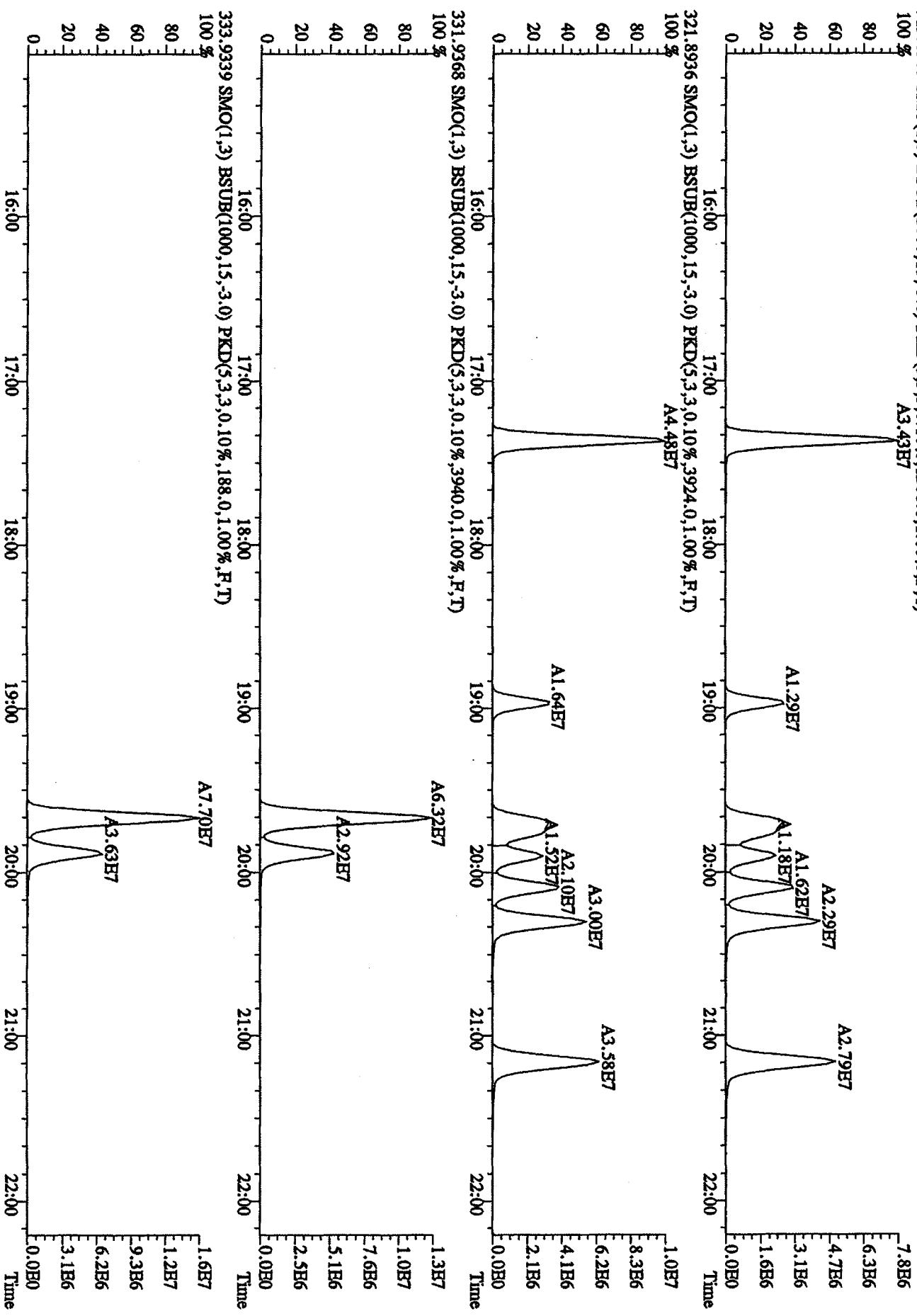
0.0E0 Time



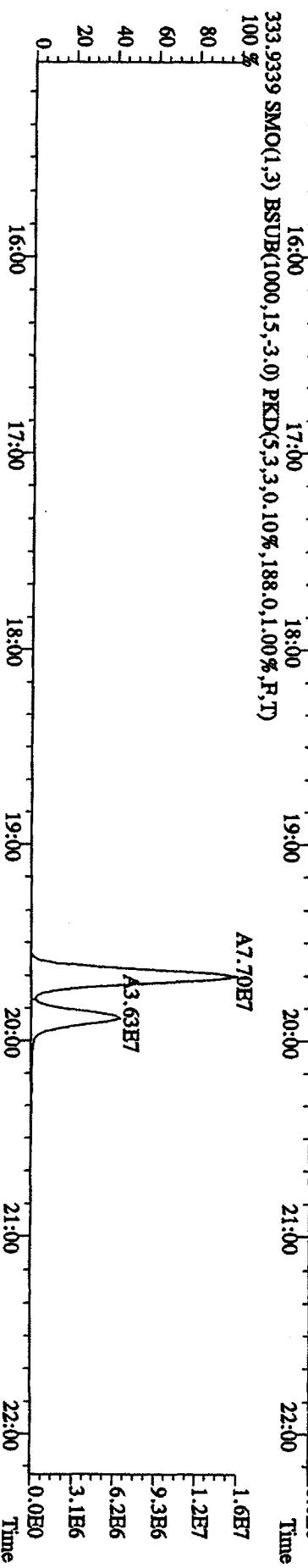
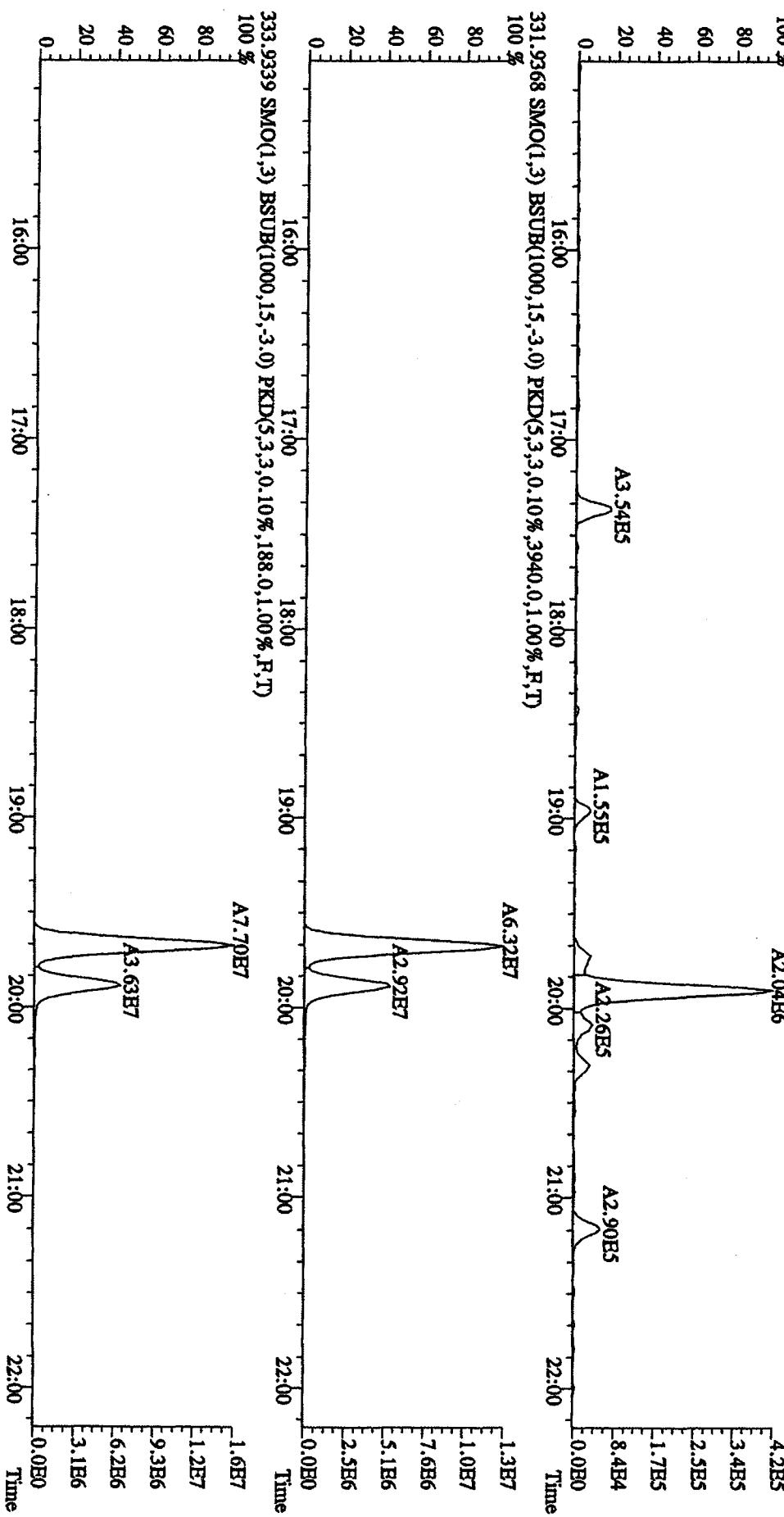
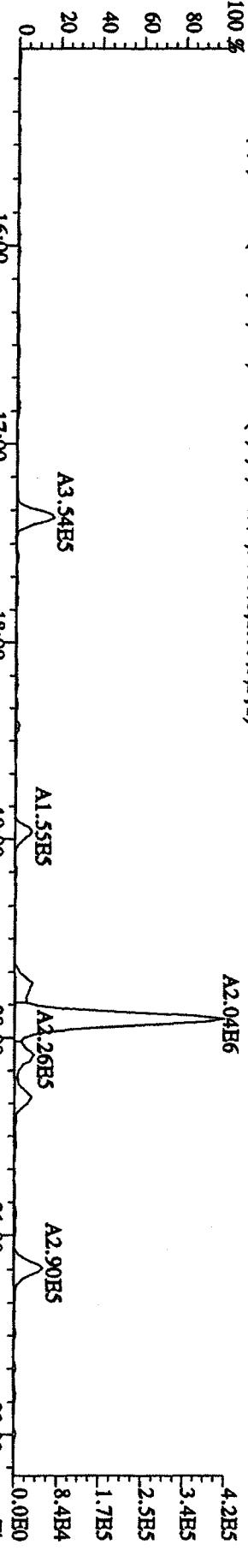
File:12AP104D5 #1-435 Acq:12-APR-2010 08:30:15 GC HI+ Voltage SIR Autospec-Ultimac
 Sample#1 Text:CF0412 :DB-5 CPSM 3732-04 Exp:DIOXINRES8290A
 303.9016 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1592.0,1.00%,F,T)
 100 % A3.75E7



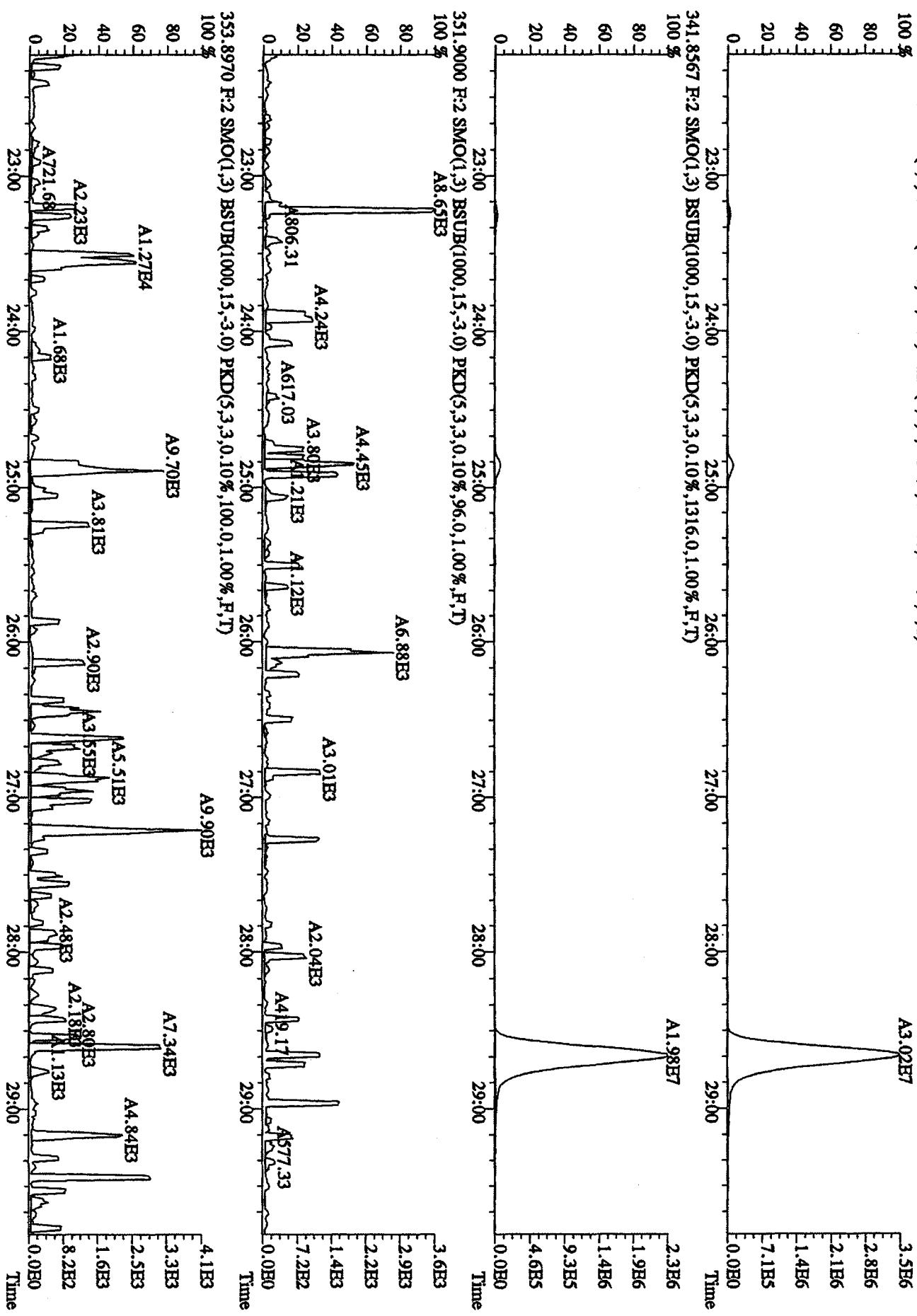
File:12AP104D5 #1-435 Acq:12-APR-2010 08:30:15 GC HI+ Voltage SIR Autospec-Ultimate
 Sample#1 Text:CP0412 :DB-5 CPSM 3732-04 Exp:DIOXINRES8290A
 319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1208.0,1.00%,F,T)
 A3.43E7



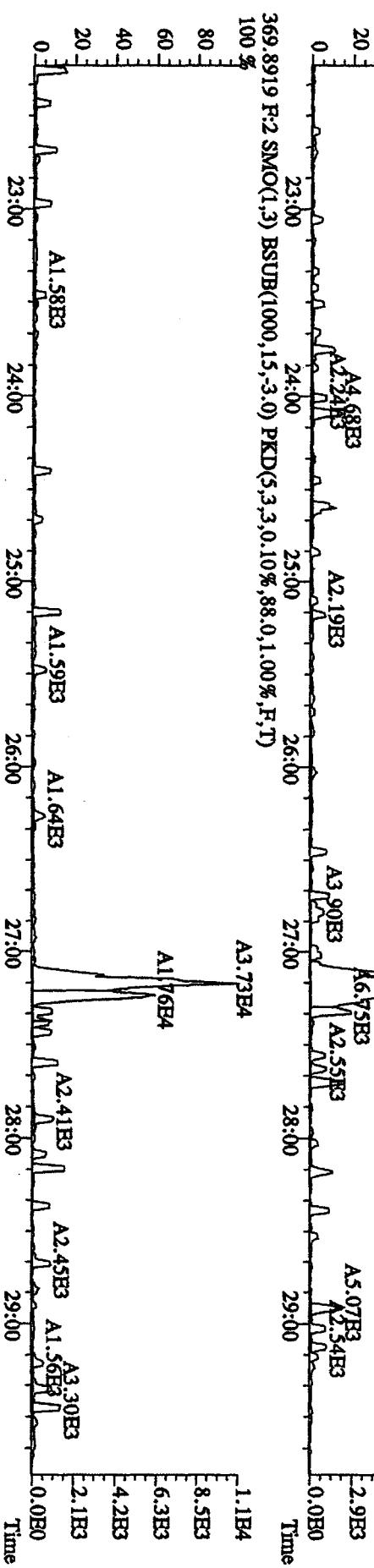
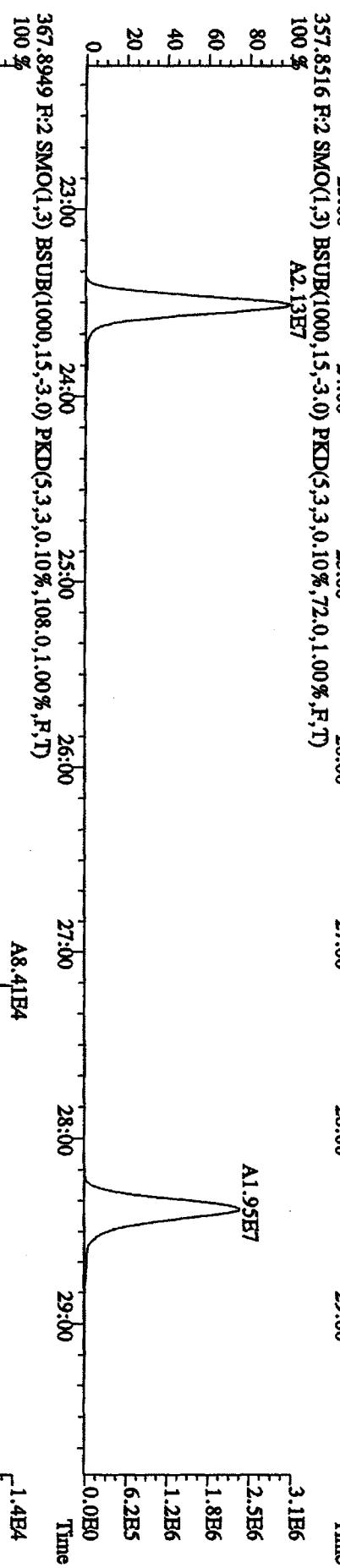
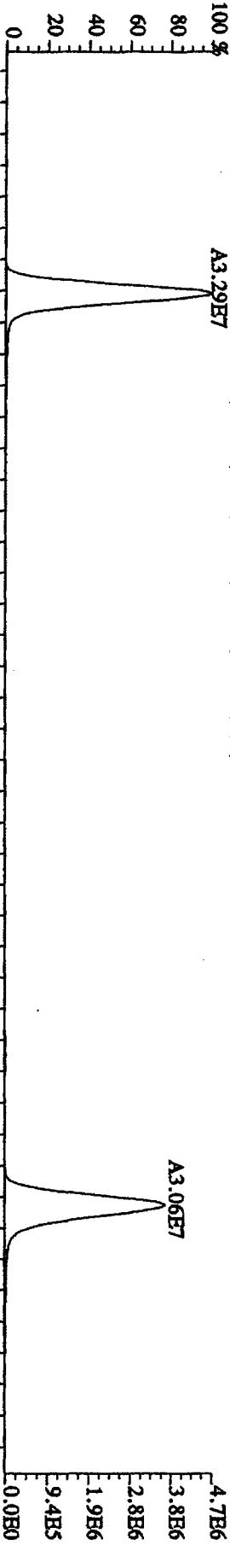
File:12AP104D5 #1-435 Acq:12-APR-2010 08:30:15 GC HI+ Voltage SIR Autospec-Ultimate
 Sample#1 Text:CP0412 :DB-5 CPSM 3732-04 Exp:DIOXINRES8290A
 327.8847 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1668.0,1.00%,R,T)
 100 %
 80
 60
 40
 20
 0



File:12AP104D5 #1-605 Acq:12-APR-2010 08:30:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#:1 Text:CP0412 :DB-5 CPSM 3732-04 Exp:DIOXINRES8290A
339 8597 R:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1652.0,1.00%,F,T)
100 %

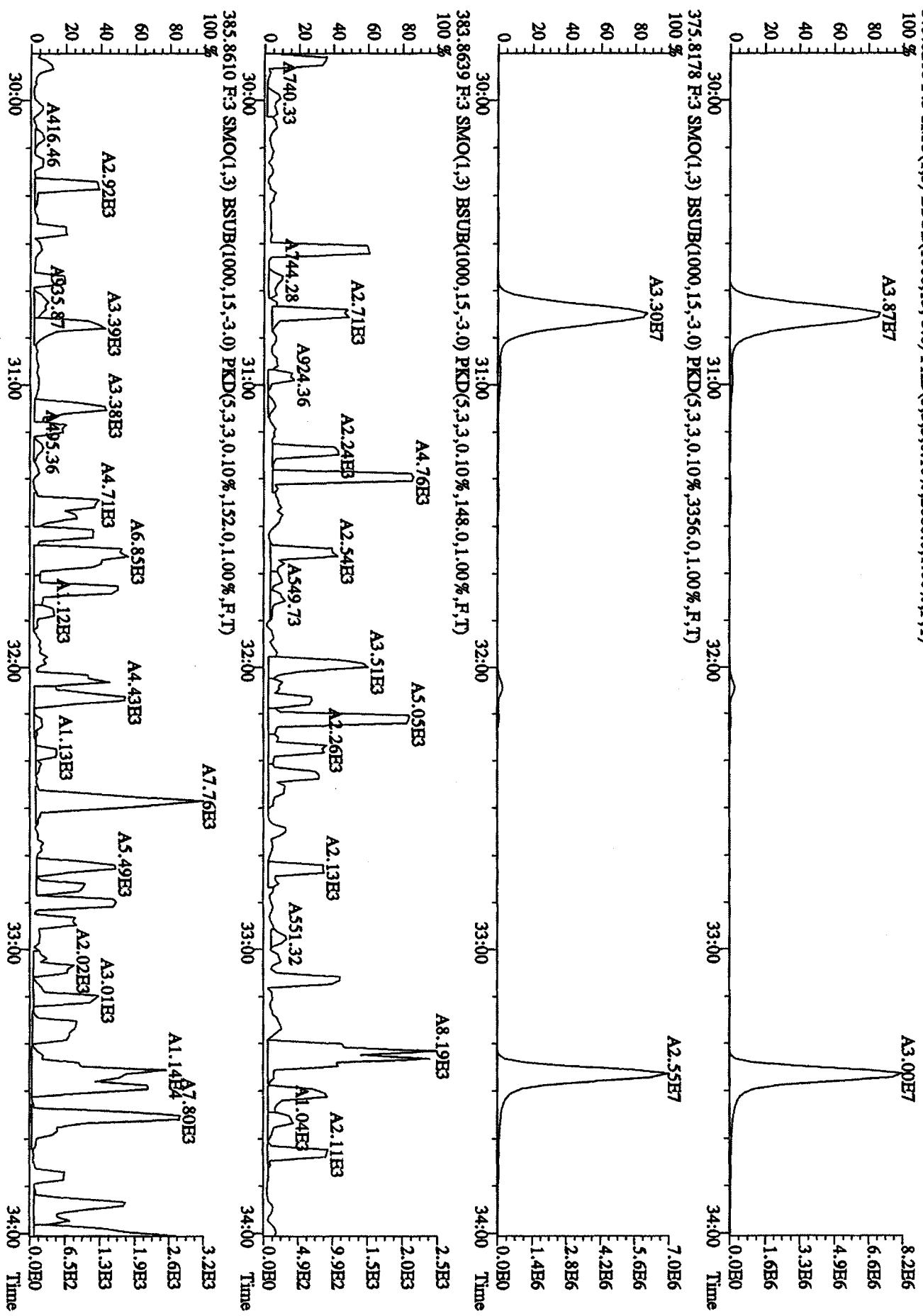


File:12AP104DS #1-605 Acq:12-APR-2010 08:30:15 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#: Text:CP0412 :DB-5 CPSM 3732-04 B3:DIOXIN(RRES8290A
 355.8546 R:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1256.0,1.00%,F,T)
 100 % A3.29E7



File:12AP104D5 #1-317 Acc:12-APR-2010 08:30:15 GC EI+ Voltage SIR Autospec-UltimaEE

Scallop 1 1EAK.CTR0412 .DB-J CRAM 3/32-04 EXP.DIAKLINKS.0200A
373.8208 R:3 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,2080,0.1,100%,F,T)



Sample Extraction/Preparation Log
Copies and Checklists

**TestAmerica West Sacramento
High Resolution Prep Log
Dioxin/Furan AQ Extraction**

Batch: 0106253
MS Run #: 14161W
Prep Date: 4/16/2010

Internal COC:	
Delivered to Inst.:	C:\1\1\1\1\1\1\1
Inst Receipt:	

Method: IN 8290

Matrix: 1 WATER

Extraction: 09 LIQ/LIQ, SEP FUNNEL (PAH,P/P,TPH,Dioxin) - Nominal

QC: 01 STANDARD TEST SET

SAC: IN - I - 09 - 01

Shared QC Batch: SAME
QC Batch: 14161W

Shares: 1
QC With: ATF
Box # 12

Internal COC:
Delivered to Inst.: C:\1\1\1\1\1\1\1
Inst Receipt: 1006253

Prep Reagents		
Reagent	Supplier	Lot #
DCM	Baker	H46509
Hexane	Baker	H37E41
H2SO4	Baker	NA
20% DCM:Hexane	NA	3630 - S3B
65% DCM:Hexane	NA	3631 - S3G
1:1 DCM:Cyclohexane	NA	NA
75:20:5 DCM:Hexane:Benzene	NA	NA
Silica Gel	W.H. Freeman	22 - 24
Acid Alumina	NP-BIO	19
5% Carbon:Silica Gel	NA	NA

Extraction Table

Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size * 4000ml	Sample + Sample Weight	Empty Bottle Weight	Final Volume		Analysis Hold Time Expires	Extraction ID	Round Bottom ID	Rotovap ID
							20uL	Other				
G0D120444 - 3		LXT281AC	5/7/2010	178.8	740.5	261.7	~100		5/31/2010	NA	R28G	5
G0D130519 - 1		LXWV71AA	5/8/2010	1033.5	1529.0	495.5	~100		5/31/2010	S2C	R31G	7
G0D130519 - 2		LXWV81AA	5/8/2010	1033.8	1529.9	496.1	~100		5/31/2010	NA	R22G	5
G0D150508 - 1		LX10X1A2	5/13/2010	910.0	1320.4	410.4	~100		5/31/2010	S1B	R08G	7
G0D150508 - 2		LX1061AD	5/13/2010	920.5	1332.5	412.2	~100		5/31/2010	NA	R33G	5
G0D150508 - 3		LX1071AD	5/13/2010	910.3	1321.8	411.5	~100		5/31/2010	NA	R17G	7
G0D150508 - 4		LX1081AD	5/13/2010	910.5	1317.3	400.8	~100		5/31/2010	NA	R341G	5
G0D150508 - 4	S	LX1081CE	5/13/2010	224.4	1310.7	386.3	~100		5/31/2010	S14	R35G	7
G0D150508 - 4	D	LX1081CF	5/13/2010	229.2	1332.6	403.4	~100		5/31/2010	NA	R26G	5
G0D160000 - 253	B	LX3LQ1AA	5/13/2010	100.0	N/A	N/A			5/31/2010	S23	R10G	5
G0D160000 - 253	C	LX3LQ1AC	5/13/2010	100.0	N/A	N/A			5/31/2010	NA	R27G	7

* See attached sheet for sample volumes recorded from scale
Comments/NCMs: Sample GODIZO 4444
Extraction

for sample volumes recorded from scale
Sample GODIZO 444-3 was diluted to 1.0 L at de-ionized water for the extraction

Run Date: 5/03/10
Time: 13:04:12TestAmerica Laboratories Inc.
EXTRACTION BENCH WORKSHEET

LEV LEV LEV LEV LEV

1 2 1 2 2

- Blank - - Weights/Volumes

- Check - - Spike & Surrogate Worksheet

- MS/MSD - - Vial contains correct volume

- - - Labels, greenbars, worksheets

- - - computer batch: correct & all match

- - - Anomalies to Extraction Method

Extractionist: _____

Concentrationist: _____

Reviewer/Date: _____ / 0/00/00

RQC058

- Expanded Deliverable

- COC Completed

- Bench Sheet Copied

- Package Submitted to Analytical Group

- Bench Sheet Copied per COC

COMMENTS: 5/08/10 4/30/10 GOD130519-001 LXWV7-1-AA

COMMENTS: 5/08/10 4/30/10 GOD130519-002 LXWV8-1-AA

COMMENTS: 5/08/10 0/00/00 GOE030000-308 LOW8G-1-AAB

COMMENTS: 5/08/10 0/00/00 GOE030000-308 LOW8G-1-ACC

COMMENTS: 5/08/10 0/00/00 GOE030000-308 LOW8G-1-ACC

EXTR EXPR	ANL DUE	LOT#, MSLRUN#/ WORK ORDER	TEST FLGS	EXT MTH	MATRIX	INIT/FIN WT/VOL	PIN/S INIT ADJ1	SOLVENTS VOL	EXTRACTION VOL	EXCHANGE VOL	VOL	SPIKE STANDARD/ SURROGATE ID
5/08/10	4/30/10	GOD130519-001		09	IN	WATER	1033.5mL 10.00uL	NA	NA	DCM	300.0	C-14
5/08/10	4/30/10	GOD130519-002		09	IN	WATER	1033.8mL 10.00uL	NA	NA	DCM	300.0	C-14
5/08/10	0/00/00	GOE030000-308		09	IN	WATER	1000.0mL 20.00uL	NA	NA	DCM	300.0	C-14
5/08/10	0/00/00	LOW8G-1-AAB		09	IN	WATER	1000.0mL 20.00uL	NA	NA	DCM	300.0	C-14
5/08/10	0/00/00	GOE030000-308		09	IN	WATER	1000.0mL 20.00uL	NA	NA	DCM	300.0	C-14
5/08/10	0/00/00	LOW8G-1-ACC		09	IN	WATER	1000.0mL 20.00uL	NA	NA	DCM	300.0	C-14

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

†

NUMBER OF WORK ORDERS IN BATCH: 4

Preparation Data Review Checklist

 Prep Batch(es) 0106253

 Test: 8290

 Prep Date: 4/16/10

 Holding Times: 5/7/10 NCM: Y (N)
5/13/10

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

 Spike witness: 

 Date: 4/16/10

 2nd Level Reviewer: 

 Date: 4/11/10

Comments:

Data Checklist
HRGCMS/LRGCMs Analyses

Batch #: 0123308 Method ID: 8290

Data Analyst: V.P.
Date initiated: 5/3/10
Reviewer: M.Will
Date reviewed: 5/4/2010

DB-5
DB-225

QA/QC verification:

- Daily standard package(s) present?
- Method Blank present?
- LCS/DCS copy present and meets native recovery criteria?
- Internal standard recoveries within limits?*
- Ion ratios within + 15% of theoretical values?
- Other QC (Dup,MS,SD) within specs?** NA

	<u>Initiated</u> DB-5	<u>Reviewed</u> DB-5	<u>Initiated</u> DB-225 (High Res Only)	<u>Reviewed</u> DB-225 (High Res Only)
-Daily standard package(s) present?	/	/		
-Method Blank present?	/	/		
-LCS/DCS copy present and meets native recovery criteria?	/	/		
-Internal standard recoveries within limits?*	/	/		
-Ion ratios within + 15% of theoretical values?	/	/		
-Other QC (Dup,MS,SD) within specs?**	/	/		

Sample Analysis:

- Correct sample aliquot used?
- All raw data present?
- Standard target DL's used? If RL's are used specify: _____
- DL's below TDL / LCL (please circle)?
- All positives reported at levels greater than method blank DL's?
- Correct RRF's used for method?
- Internal standard amounts correct for method?
- Target analytes are not saturated?
- Dilution/splitting of extract taken into account? NA
- Have dilution calculations been verified? NA
- Has a manual calculation for the sequence(s) been verified?
- Are retention times (RT) correct?
- Manual integrations checked?

	<u>Initiated</u> DB-5	<u>Reviewed</u> DB-5	<u>Initiated</u> DB-225 (High Res Only)	<u>Reviewed</u> 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)

See NCM

* Recovery limits:

NCASI 551:	40-120%***
Method 8290:	40-135%***
Method 1613:	25-150%***
Method 23:	40-130%*** (Cl4-Cl6), 25-130% (Cl7-8), 70-130% (surr.)
PCBs:	25-150%***
Method 8280:	40-120%***
DFLM01.0:	25-150%***
Method 1614	25-150%***

** RPD limits:

50%
20%
50%
50%
50%

*** Lower recoveries are acceptable if I.S. S/N \geq 10:1 and DL's are < LCL for target analytes.

Unused Data

VS 5.3 v. 0123308

0106253

0106253 Vd

Are there any Associated
Samples or Batches with
this Set of Samples?

Yes
No

TestAmerica West Sacramento**ADVANCED TECHNOLOGY
LOW/HIGH RESOLUTION ANALYSIS****G0D130519**

1, 2

Northgate Environmental ManageIsomers (≤ 12 hr Res Chk)

BATCH:

MS Run#:

Extract Box
Location:Date to
Instruments:

4/19/10

Total Samples: 2 of 2**Set: 1 of 1****QAS Release Date: 4/14/2010**
Expected Date:**Project Manager:** David R. Altucker**Date Received:** 4/13/2010**Client Name:** Northgate Environmental Manage**Date Log Released:** 4/14/2010**Quote Number:** 84087**Date Subbed:** 4/15/2010**Project Site:** Henderson NV**Turnaround Time:** 18**Deliverable Info:** STL Sacramento Standard Report**Prep Due:** Sunday, Apr 18 2010**Method Desc:** IN Dioxins/Furans, HRGC/HRMS (8290)**QC Desc:** 01 STANDARD TEST SET**Ops Due:** Friday, Apr 30 2010**Matrix Desc:** I WATER**Location:** W25A**Report Due:** Monday, May 3 2010**Extraction Desc:** 09 LIQ/LIQ, SEP FUNNEL (PAH,P/P,TPH,Dioxin) - N**Extraction Analysis:** DX8290_L**Dioxin Reporting:** Estimated Detection Limits**Prep Comments from Quote****Analysis Comments from Quote****Reporting Comments from Quote****Data Entry Comments from Quote****Prep Comments from QAS****MS/SD on client sample (or specified MS/SD) required on each extraction batch.****8290:**

Extract 10g to a final volume of 10uL. Option C must be performed.

1668:

Extract 10g or 1L to a final volume of 20uL. Option C must be performed on all solid samples. SPLPs will have two different leachate fluids, SPLP-Fluid 2 and SPLP-Fluid 3. Please make sure the laboratory blank is WO-1-AA, the Fluid 2 is WO-1-AD and Fluid 3 is WO-1-AE. Batch and extract a laboratory method blank and each leachate fluid blank. If you have any questions, please see David Altucker.

Analysis Comments from QAS

Write up data to the EDL (both dioxins and PCBs).

Level IV data package. Requires a full level 2 summary section in the front of the report. Sample and QC data form 1, Run Logs, ICAL and CCV summaries.

8290:

CPSM must meet 25% valley before analyzing samples.

Mass Resolution Check at beginning and end of each 12 hour shift.

1668:

RTs should be +/- 15 seconds from ICAL.

1pt Calibration at the beginning of each 12 hour shift.

Mass Resolution Check at beginning and end of each 12 hour shift.

Air Prep Comments from QAS

G0D130519

Samp #	Suff	Work Order	Sample Description	Container Information		Sampling Date	Hold Time for Method	Date Hold Time Expires
1		LXWV71AA	FB-040710-RZC	2	2-AGB	4/8/2010	30	5/8/2010
2		LXWV81AA	EB-040710-RZC	2	2-AGB	4/8/2010	30	5/8/2010

TestAmerica West Sacramento

Project/Sample Specific Information and Work Orders with the Same Analyte List

Lot ID: G0D130519

Date Received: 4/13/2010

Project Manager: ALLTUCKD

Date Log Released: 4/14/2010

Client Name: Northgate Environmental Manage

Turnaround Time: 18

Quote Number: 84087

Prep Due: Sunday, Apr 18 2010

Project Site: Henderson NV

Expected Date:

Ops Due: Friday, Apr 30 2010

Report Due: Monday, May 3 2010

Lot ID	Samp Num	Suff	Work Order	Batch	Analyte List ID	Sampling Date	Time Sampled
G0D130519	1		LXWV71AA	0106253	5	4/8/2010	900
G0D130519	2		LXWV81AA	0106253	5	4/8/2010	1126

Quality Assurance Summary

Client Northgate Environmental Manage

Project Name: 2027.01

PM: DRA

Lot Receipt Date: 4/13/2010

Ops Due: 4/30/2010

Lot ID G0D130519

Quantims Quote: 84087

QAP/P

General QC

Regulatory Program: Standard

Batching: MB / LCS

Corrective Action: Standard

QC Type: MS / SD

QC Controls: Standard

Organics

ABN Search

VOA Search

Tic#: 0

Non Linear Calibration

TPH

TPH-D Carbon Ranges:

BTEX Confirmation

Dioxin

Dioxin Totals

Dioxin Action Limit:

Dioxin Sample Volume:

Dioxin Cleanups

Dioxin Cleanup Acid Base

Dioxin Threshold:

Dioxin Cleanup Carbon

Dioxin Reporting: Estimated Detectio

Dioxin Extract Volume:

Dioxin Cleanup Acid Digest

Dioxin Dry Grind

Reporting

Reporting Limits: Standard

J Values: None

Yellow Sheet Dry Weight

Raw Data:

See Comments

Summaries:

See Comments

Logs:

None

Entry:

None

TPH-D Chros:

None

TPH-G Chros:

0

Air Toxics

Air Train:

Air HG Fractions: 0

Air Ambient:

Air Prespike:

Air Int Std: Standard

Air DCS: Standard

Air Reporting:

Air DF Train:

Air DF Archive

Air Semi Train:

Air Semi Archive

Air Semi Methods

Inorganics

Inorganic QC :

Serial Dilution:

TOC:

TOX:

AOX:

Post Spike

Quality Assurance Summary

Client Northgate Environmental Manage

Project Name: 2027.01

PM: DRA

Lot Receipt Date: 4/13/2010

Ops Due: 4/30/2010

Lot ID G0D130519

Quantims Quote: 84087

QAPJP

Organic Analysis Comments:

Organic Prep Comments:

ATG Analysis Comments:

Write up data to the EDL (both dioxins and PCBs).

Level IV data package. Requires a full level 2 summary section in the front of the report. Sample and QC data form 1, Run Logs, ICAL and CCV summaries.

8290:

CPSM must meet 25% valley before analyzing samples.

Mass Resolution Check at beginning and end of each 12 hour shift.

1668:

RTs should be +/- 15 seconds from ICAL.

1pt Calibration at the beginning of each 12 our shift.

Mass Resolution Check at beginning and end of each 12 hour shift.

ATG Prep Comments:

MS/SD on client sample (or specified MS/SD) required on each extraction batch.

8290:

Extract 10g to a final volume of 10uL. Option C must be performed.

1668:

Extract 10g or 1L to a final volume of 20uL. Option C must be performed on all solid samples.

SPLPs will have two different leachate fluids, SPLP-Fluid 2 and SPLP-Fluid 3. Please make sure the laboratory blank is WO-1-AA, the Fluid 2 is WO-1-AD and Fluid 3 is WO-1-AE. Batch and extract a laboratory method blank and each leachate fluid blank. If you have any questions, please see David Altucker.

Metals Comments:

GenChem Comments:

Samples for perchlorate are expected to be very high in most cases, with the exception of flied blanks. Please look at the client ID's and if not a blank, start at a 1000x dilution so we don't blow the instrument away.

Air Tox Prep Comments:

TestAmerica West Sacramento

Analyte List Requested

Lot ID: G0D130519

SAC: IN - 09 - I - 01

Analyte List ID: 5

Native Compound List

Analyte	List	Reporting Limit pg/L	MDL pg/L	Analyte
2,3,7,8-TCDF				13C-2,3,7,8-TCDF
2,3,7,8-TCDD				13C-2,3,7,8-TCDD
1,2,3,7,8-PeCDF				13C-1,2,3,7,8-PeCDF
2,3,4,7,8-PeCDF				13C-1,2,3,7,8-PeCDF
1,2,3,7,8-PeCDD				13C-1,2,3,4,7,8-HxCDF
1,2,3,4,7,8-HxCDF				13C-1,2,3,6,7,8-HxCDD
1,2,3,6,7,8-HxCDF				13C-1,2,3,4,6,7,8-HxCDF
2,3,4,6,7,8-HxCDF				13C-1,2,3,4,6,7,8-HxCDD
1,2,3,7,8,9-HxCDF				13C-OCDF
1,2,3,4,7,8-HxCDD				
1,2,3,6,7,8-HxCDD				
1,2,3,7,8,9-HxCDD				
1,2,3,4,6,7,8-HpCDF				
1,2,3,4,7,8,9-HpCDF				
1,2,3,4,6,7,8-HpCDD				
OCDF				
OCDD				

Surrogate Compound List

Surr. Rec. Lower Limit	Surr. Rec. Upper Limit
40	135
40	135
40	135
40	135
40	135
40	135
40	135
40	135
40	135
40	135
40	135
40	135
40	135

ATG OC Batch / Tracking

	<u>Test</u>	<u>report</u>	<u>Ops due</u>
<u>Batch # 0106253</u>			
<u>Projects</u>	<u>GOD120444</u>	<u>8290</u>	<u>Totals</u> <u>4-30-10</u>
	<u>GOD130519</u>	<u>8290</u>	<u>Isomers</u> <u>4-30-10</u>
	<u>GOD150508</u>	<u>8290</u>	<u>Totals</u> <u>4-29-10</u>

Batch # 0106329

<u>Projects</u>	<u>GOD150603-15-17</u>	<u>8290</u>	<u>Totals</u> <u>4-22-10</u> <u>Date</u>

Batch # _____

<u>Projects</u>	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____

Batch # _____

<u>Projects</u>	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____

Comments: _____

