

April 26, 2010

**TestAmerica Project Number: G0D140559**

PO/Contract:

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 15, 2010. These samples are associated with your Tronox LLC. Henderson - Parcel project.

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

If you have any questions, please feel free to call me at (916) 374-4383.

Sincerely,



DAVID R. ALLTUCKER  
Project Manager

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## Case Narrative

### TestAmerica West Sacramento Project Number GOD140559

#### **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 G0D140559

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
LX0W0	1	EB-PARCELC_033110	4/13/2010 01:45 PM	4/15/2010 09:40 AM
LX0W1	2	FB-PARCELC_033110	4/13/2010 01:40 PM	4/15/2010 09:40 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.



1100 Quail Street, Suite 102, Newport Beach, CA 92660  
(949) 260-9293

**CHAIN-OF-CUSTODY / Analytical Request Document**

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

COC No. 2027.001.2110  
Page: 1 of 1  
Cooler # \_\_\_\_\_ of \_\_\_\_\_  
Collection Area: Parcel C

<b>Required Ship to Lab:</b> Lab Name: TestAmerica Address: 980 Riverside Parkway West Sacramento, CA 95605 Lab PM: David Altucker Phone/Fax: (916) 373-5800 Lab PM email: David.Altucker@testamericainc.com		<b>Required Project Information:</b> Site ID #: TRONOX LLC, HENDERSON Project #: 2027.001 Site Address: 560 W. Lake Mead Drive City: Henderson State: NV Site PM Name: Derrick Willis Phone/Fax: (949) 376-7004 Site PM Email: derrick.willis@ngem.com		<b>Required Invoice Information:</b> Send Invoice to: Susan Crowley Trentox LLC Address: PO Box 55 City/State: Henderson, NV 89009 Phone #: (949) 260-9293 Reimbursement project? <input checked="" type="checkbox"/> Non-reimbursement project? <input type="checkbox"/> Mark one Send EDD to: frank.hagar@ngem.com CC Hardcopy report to: PDF Electronic Version Only		TAT: Standard 30 day Rush <input checked="" type="checkbox"/> If Rush, Date due _____ QC level Required: Standard Special EPA Stage Mark one 4 NJ Reduced Deliverable Package? <input type="checkbox"/> CT RCP Cert? <input type="checkbox"/> Mark One	
<b>Applicable Lab Quote #:</b> _____ See additional comments below		FIELD FILTERED? (Y/N) _____ # OF CONTAINERS _____ SAMPLE TIME _____ SAMPLE DATE _____ SAMPLE TYPE _____ MATRIX CODE _____		Preservatives: H2SO4, HNO3, HCl, NaOH, Na2S2O3, Methanol, Other _____ Unpreserved _____		Requested Analyses: _____ Comments/Lab Sample I.D.: _____	
SAMPLE ID: EB-PARCEL033110 One Character per box (A-Z, 0-9 / -) Samples IDs MUST BE UNIQUE		MATRIX: WATER, SURFACE WATER, GROUND WATER, WASTE WATER, WASTE PRODUCT, SOIL, METALS, AIR, SOLID		MATRIX CODE: EB, FB		Comments: 2-1L Amber Glass 2-1L Amber Glass	
Additional Comments/Special Instructions:		PDF reports and EDDs will be uploaded to: Northgate Environmental Management, Inc. FTP site address provided to labs. Notifications provided to: cindy.arnold@ngem.com frank.hagar@ngem.com		Sample Receipt Conditions: Y/N Y/N Y/N Y/N Y/N Y/N Y/N		Temp in OC _____ Samples on Ice? _____ Sample Intact? _____ Trip Blank? _____	
UPS COURIER FEDEX US MAIL		PRINT Name of SAMPLER: Brendan Mullholland SIGNATURE of SAMPLER: _____ DATE Signed: _____ Time: _____		Signature: _____ Date: 4/13/2010 Time: 15:00:00		Signature: _____ Date: 4/13/2010 Time: 15:00:00	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## LOT RECEIPT CHECKLIST TestAmerica West Sacramento

CLIENT Northgate PM DA LOG # 64249  
 LOT# (QUANTIMS ID) 905140559 QUOTE# 84087 LOCATION W25C  
 DATE RECEIVED 4/15/10 TIME RECEIVED \_\_\_\_\_  
 DELIVERED BY  FEDEX  ON TRAC  CLIENT  
 GOLDENSTATE  UPS  GO-GETTERS  OTHER  
 TAL COURIER  TAL SF  VALLEY LOGISTICS  
 CUSTODY SEAL STATUS  INTACT  BROKEN  N/A  
 CUSTODY SEAL #(S) Seal  
 SHIPPING CONTAINER(S)  TAL  CLIENT  N/A  
 COC #(S) 2027.001.2110  
 TEMPERATURE BLANK Observed: NA Corrected: \_\_\_\_\_  
 SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)  
 Observed: 2, 3, 2 Average 2 Corrected Average 2  
**LABORATORY THERMOMETER ID:**  
 IR UNIT: #4  #5   OTHER \_\_\_\_\_

CV 4/15/10  
 Initials Date

=====  
 pH MEASURED  YES  ANOMALY  N/A  
 LABELED BY.....  
 LABELS CHECKED BY.....  
 PEER REVIEW \_\_\_\_\_  NA  
 SHORT HOLD TEST NOTIFICATION SAMPLE RECEIVING  
 WETCHEM  N/A  
 VOA-ENCORES  N/A  
 METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A  
 COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A  
 CLOUSEAU  TEMPERATURE EXCEEDED (2 °C – 6 °C)<sup>\*1</sup>  N/A  
 WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED  
 Initials [Signature] Date 15 APR 10

Notes \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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

Lot ID: 90D140559

	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																				

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: EB-PARCEL\_C\_033110**

**Trace Level Organic Compounds**

**SW846 8290**

**Lot - Sample #....:** G0D140559 - 001  
**Date Sampled....:** 04/13/10  
**Prep Date....:** 04/20/10  
**Prep Batch # ....:** 0113332  
**Initial Wgt/Vol :** 1059 mL

**Work Order #....:** LX0W01AA  
**Date Received....:** 04/15/10  
**Analysis Date....:** 04/22/10  
**Dilution Factor....:** 0.94  
**Analyst ID....:** Susan X. Yan

**Matrix....:** WATER  
**Instrument ID....:** 4D5  
  
**Units.....:** pg/L

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>TEF FACTOR</u>	<u>TEQ CONCENTRATION</u>
2,3,7,8-TCDD	0.68 J Q	4.7	1.0	0.68
1,2,3,7,8-PeCDD	2.2 J	24	1.0	2.2
1,2,3,4,7,8-HxCDD	1.9 J B	24	0.1	0.19
1,2,3,6,7,8-HxCDD	7.7 J B	24	0.1	0.77
1,2,3,7,8,9-HxCDD	4.5 J B	24	0.1	0.45
1,2,3,4,6,7,8-HpCDD	100 B	24	0.01	1.0
OCDD	360 B	47	0.0003	0.11
2,3,7,8-TCDF	2.6 J B	4.7	0.1	0.26
1,2,3,7,8-PeCDF	1.2 J B	24	0.03	0.036
2,3,4,7,8-PeCDF	1.0 J Q B	24	0.3	0.30
1,2,3,4,7,8-HxCDF	2.4 J B	24	0.1	0.24
1,2,3,6,7,8-HxCDF	2.6 J B	24	0.1	0.26
2,3,4,6,7,8-HxCDF	1.7 J B	24	0.1	0.17
1,2,3,7,8,9-HxCDF	1.4 J B	24	0.1	0.14
1,2,3,4,6,7,8-HpCDF	24 B	24	0.01	0.24
1,2,3,4,7,8,9-HpCDF	2.2 J B	24	0.01	0.022
OCDF	23 J B	47	0.0003	0.0069

**Total TEQ Concentration**

7.1

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	68	40 - 135
13C-1,2,3,7,8-PeCDD	71	40 - 135
13C-1,2,3,6,7,8-HxCDD	71	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	78	40 - 135
13C-OCDD	77	40 - 135
13C-2,3,7,8-TCDF	58	40 - 135
13C-1,2,3,7,8-PeCDF	73	40 - 135
13C-1,2,3,4,7,8-HxCDF	67	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	75	40 - 135

**QUALIFIERS**

**Northgate Environmental Management, Inc.**

**Sample ID: EB-PARCEL\_C\_033110**

**Trace Level Organic Compounds**

**SW846 8290**

<b>Lot - Sample #....:</b>	<b>G0D140559 - 001</b>	<b>Work Order #....:</b>	<b>LX0W01AA</b>	<b>Matrix....:</b>	<b>WATER</b>
<b>Date Sampled....:</b>	<b>04/13/10</b>	<b>Date Received....:</b>	<b>04/15/10</b>	<b>Instrument ID....:</b>	<b>4D5</b>
<b>Prep Date....:</b>	<b>04/20/10</b>	<b>Analysis Date....:</b>	<b>04/22/10</b>		
<b>Prep Batch # ....:</b>	<b>0113332</b>	<b>Dilution Factor....:</b>	<b>0.94</b>	<b>Units.....:</b>	<b>pg/L</b>
<b>Initial Wgt/Vol :</b>	<b>1059 mL</b>	<b>Analyst ID....:</b>	<b>Susan X. Yan</b>		

**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: EB-PARCEL\_C\_033110**

**Trace Level Organic Compounds**

**SW846 8290**

<b>Lot - Sample #....:</b>	G0D140559 - 001	<b>Work Order #....:</b>	LX0W01AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	04/13/10	<b>Date Received....:</b>	04/15/10	<b>Dilution Factor:</b>	0.94
<b>Prep Date....:</b>	04/20/10	<b>Analysis Date....:</b>	04/22/10		
<b>Prep Batch # ....:</b>	0113332	<b>Instrument ID....:</b>	4D5		
<b>Initial Wgt/Vol :</b>	1059 mL	<b>Analyst ID....:</b>	Susan X. Yan		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>ESTIMATED DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	0.68 J Q	4.7	0.25	pg/L
1,2,3,7,8-PeCDD	2.2 J	24	0.41	pg/L
1,2,3,4,7,8-HxCDD	1.9 J B	24	0.36	pg/L
1,2,3,6,7,8-HxCDD	7.7 J B	24	0.33	pg/L
1,2,3,7,8,9-HxCDD	4.5 J B	24	0.30	pg/L
1,2,3,4,6,7,8-HpCDD	100 B	24	0.70	pg/L
OCDD	360 B	47	0.70	pg/L
2,3,7,8-TCDF	2.6 J B	4.7	0.27	pg/L
1,2,3,7,8-PeCDF	1.2 J B	24	0.32	pg/L
2,3,4,7,8-PeCDF	1.0 J Q B	24	0.34	pg/L
1,2,3,4,7,8-HxCDF	2.4 J B	24	0.33	pg/L
1,2,3,6,7,8-HxCDF	2.6 J B	24	0.30	pg/L
2,3,4,6,7,8-HxCDF	1.7 J B	24	0.33	pg/L
1,2,3,7,8,9-HxCDF	1.4 J B	24	0.37	pg/L
1,2,3,4,6,7,8-HpCDF	24 B	24	0.40	pg/L
1,2,3,4,7,8,9-HpCDF	2.2 J B	24	0.51	pg/L
OCDF	23 J B	47	0.36	pg/L

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	68	40 - 135
13C-1,2,3,7,8-PeCDD	71	40 - 135
13C-1,2,3,6,7,8-HxCDD	71	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	78	40 - 135
13C-OCDD	77	40 - 135
13C-2,3,7,8-TCDF	58	40 - 135
13C-1,2,3,7,8-PeCDF	73	40 - 135
13C-1,2,3,4,7,8-HxCDF	67	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	75	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: FB-PARCEL\_C\_033110**

**Trace Level Organic Compounds**

**SW846 8290**

<b>Lot - Sample #....:</b>	G0D140559 - 002	<b>Work Order #....:</b>	LX0W11AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	04/13/10	<b>Date Received....:</b>	04/15/10	<b>Instrument ID....:</b>	4D5
<b>Prep Date....:</b>	04/20/10	<b>Analysis Date....:</b>	04/22/10		
<b>Prep Batch # ....:</b>	0113332	<b>Dilution Factor....:</b>	0.94	<b>Units.....:</b>	pg/L
<b>Initial Wgt/Vol :</b>	1058.5 mL	<b>Analyst ID....:</b>	Susan X. Yan		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>TEF FACTOR</u>	<u>TEQ CONCENTRATION</u>
2,3,7,8-TCDD	0.34 J Q	4.7	1.0	0.34
1,2,3,7,8-PeCDD	1.3 J	24	1.0	1.3
1,2,3,4,7,8-HxCDD	1.1 J Q B	24	0.1	0.11
1,2,3,6,7,8-HxCDD	5.9 J B	24	0.1	0.59
1,2,3,7,8,9-HxCDD	4.0 J B	24	0.1	0.40
1,2,3,4,6,7,8-HpCDD	91 B	24	0.01	0.91
OCDD	350 B	47	0.0003	0.10
2,3,7,8-TCDF	2.2 J B	4.7	0.1	0.22
1,2,3,7,8-PeCDF	0.67 J Q B	24	0.03	0.020
2,3,4,7,8-PeCDF	0.73 J Q B	24	0.3	0.22
1,2,3,4,7,8-HxCDF	1.6 J Q B	24	0.1	0.16
1,2,3,6,7,8-HxCDF	1.7 J B	24	0.1	0.17
2,3,4,6,7,8-HxCDF	0.99 J B	24	0.1	0.099
1,2,3,7,8,9-HxCDF	ND	24	0.1	0
1,2,3,4,6,7,8-HpCDF	20 J B	24	0.01	0.20
1,2,3,4,7,8,9-HpCDF	0.71 J B	24	0.01	0.0071
OCDF	18 J B	47	0.0003	0.0054

**Total TEQ Concentration**

4.9

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	69	40 - 135
13C-1,2,3,7,8-PeCDD	75	40 - 135
13C-1,2,3,6,7,8-HxCDD	73	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	76	40 - 135
13C-OCDD	75	40 - 135
13C-2,3,7,8-TCDF	62	40 - 135
13C-1,2,3,7,8-PeCDF	72	40 - 135
13C-1,2,3,4,7,8-HxCDF	65	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	73	40 - 135

**QUALIFIERS**

**Northgate Environmental Management, Inc.**

**Sample ID: FB-PARCELC\_033110**

**Trace Level Organic Compounds**

**SW846 8290**

<b>Lot - Sample #....:</b>	G0D140559 - 002	<b>Work Order #....:</b>	LX0W11AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	04/13/10	<b>Date Received....:</b>	04/15/10	<b>Instrument ID....:</b>	4D5
<b>Prep Date....:</b>	04/20/10	<b>Analysis Date....:</b>	04/22/10		
<b>Prep Batch # ....:</b>	0113332	<b>Dilution Factor....:</b>	0.94	<b>Units.....:</b>	pg/L
<b>Initial Wgt/Vol :</b>	1058.5 mL	<b>Analyst ID....:</b>	Susan X. Yan		

**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-PARCELC\_033110**

**Trace Level Organic Compounds**

**SW846 8290**

<b>Lot - Sample #....:</b>	G0D140559 - 002	<b>Work Order #....:</b>	LX0W11AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	04/13/10	<b>Date Received....:</b>	04/15/10	<b>Dilution Factor:</b>	0.94
<b>Prep Date....:</b>	04/20/10	<b>Analysis Date....:</b>	04/22/10		
<b>Prep Batch # ....:</b>	0113332	<b>Instrument ID....:</b>	4D5		
<b>Initial Wgt/Vol :</b>	1058.5 mL	<b>Analyst ID....:</b>	Susan X. Yan		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>ESTIMATED DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	0.34 J Q	4.7	0.24	pg/L
1,2,3,7,8-PeCDD	1.3 J	24	0.41	pg/L
1,2,3,4,7,8-HxCDD	1.1 J Q B	24	0.25	pg/L
1,2,3,6,7,8-HxCDD	5.9 J B	24	0.22	pg/L
1,2,3,7,8,9-HxCDD	4.0 J B	24	0.21	pg/L
1,2,3,4,6,7,8-HpCDD	91 B	24	0.80	pg/L
OCDD	350 B	47	0.50	pg/L
2,3,7,8-TCDF	2.2 J B	4.7	0.22	pg/L
1,2,3,7,8-PeCDF	0.67 J Q B	24	0.29	pg/L
2,3,4,7,8-PeCDF	0.73 J Q B	24	0.31	pg/L
1,2,3,4,7,8-HxCDF	1.6 J Q B	24	0.27	pg/L
1,2,3,6,7,8-HxCDF	1.7 J B	24	0.25	pg/L
2,3,4,6,7,8-HxCDF	0.99 J B	24	0.27	pg/L
1,2,3,7,8,9-HxCDF	ND	24	0.30	pg/L
1,2,3,4,6,7,8-HpCDF	20 J B	24	0.45	pg/L
1,2,3,4,7,8,9-HpCDF	0.71 J B	24	0.58	pg/L
OCDF	18 J B	47	0.34	pg/L

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	69	40 - 135
13C-1,2,3,7,8-PeCDD	75	40 - 135
13C-1,2,3,6,7,8-HxCDD	73	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	76	40 - 135
13C-OCDD	75	40 - 135
13C-2,3,7,8-TCDF	62	40 - 135
13C-1,2,3,7,8-PeCDF	72	40 - 135
13C-1,2,3,4,7,8-HxCDF	65	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	73	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).

# QC DATA ASSOCIATION SUMMARY

G0D140559

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		0113332	
002	WATER	SW846 8290		0113332	



**Method Blank Report**  
**Trace Level Organic Compounds**  
**SW846 8290**

<b>Lot - Sample #....:</b>	G0D230000 - 332B	<b>Work Order #....:</b>	L0FH21AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	04/13/10	<b>Date Received....:</b>	04/15/10	<b>Dilution Factor:</b>	1
<b>Prep Date....:</b>	04/20/10	<b>Analysis Date....:</b>	04/22/10		
<b>Prep Batch # ....:</b>	0113332	<b>Instrument ID....:</b>	4D5		
<b>Initial Wgt/Vol :</b>	1000 mL	<b>Analyst ID....:</b>	Susan X. Yan		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>ESTIMATED DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND	5.0	0.18	pg/L
1,2,3,7,8-PeCDD	ND	25	0.38	pg/L
1,2,3,4,7,8-HxCDD	0.49 J Q	25	0.35	pg/L
1,2,3,6,7,8-HxCDD	0.64 J	25	0.32	pg/L
1,2,3,7,8,9-HxCDD	0.75 J	25	0.29	pg/L
1,2,3,4,6,7,8-HpCDD	1.3 J	25	0.41	pg/L
OCDD	6.0 J	50	0.76	pg/L
2,3,7,8-TCDF	1.5 J	5.0	0.27	pg/L
1,2,3,7,8-PeCDF	0.91 J	25	0.22	pg/L
2,3,4,7,8-PeCDF	0.63 J Q	25	0.24	pg/L
1,2,3,4,7,8-HxCDF	1.1 J	25	0.18	pg/L
1,2,3,6,7,8-HxCDF	0.48 J Q	25	0.16	pg/L
2,3,4,6,7,8-HxCDF	0.46 J Q	25	0.17	pg/L
1,2,3,7,8,9-HxCDF	0.56 J Q	25	0.20	pg/L
1,2,3,4,6,7,8-HpCDF	1.2 J Q	25	0.28	pg/L
1,2,3,4,7,8,9-HpCDF	0.96 J Q	25	0.36	pg/L
OCDF	2.8 J Q	50	0.33	pg/L

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	64	40 - 135
13C-1,2,3,7,8-PeCDD	57	40 - 135
13C-1,2,3,6,7,8-HxCDD	76	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	102	40 - 135
13C-OCDD	84	40 - 135
13C-2,3,7,8-TCDF	54	40 - 135
13C-1,2,3,7,8-PeCDF	59	40 - 135
13C-1,2,3,4,7,8-HxCDF	96	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	89	40 - 135

**QUALIFIERS**

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

**LABORATORY CONTROL SAMPLE DATA REPORT**

**Trace Level Organic Compounds**

Client Lot # ...:	G0D140559	Work Order # ...:	L0FH21AC-LCS	Matrix .....	WATER
LCS Lot-Sample# :	G0D230000 - 332		L0FH21AD-LCSD		
Prep Date .....	04/20/10	Analysis Date ..:	04/22/10		
Prep Batch # ...:	0113332				
Dilution Factor :	1				
Analyst ID.....:	Susan X. Yan	Instrument ID..:	4D5	Method.....:	SW846 8290
Initial Wgt/Vol:	1000 mL				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
2,3,7,8-TCDD	200	199	pg/L	100	(64 - 142)		
	200	198	pg/L	99	(64 - 142)	0.58	(0 - 45)
1,2,3,7,8-PeCDD	1000	1010	pg/L	101	(71 - 140)		
	1000	1010	pg/L	101	(71 - 140)	0.18	(0 - 35)
1,2,3,4,7,8-HxCDD	1000	1120	pg/L	112	(56 - 146)		
	1000	1110	pg/L	111	(56 - 146)	0.93	(0 - 45)
1,2,3,6,7,8-HxCDD	1000	1060	pg/L	106	(73 - 144)		
	1000	1060	pg/L	106	(73 - 144)	0.56	(0 - 35)
1,2,3,7,8,9-HxCDD	1000	1050	pg/L	105	(71 - 151)		
	1000	1030	pg/L	103	(71 - 151)	2.6	(0 - 36)
1,2,3,4,6,7,8-HpCDD	1000	996	pg/L	100	(78 - 139)		
	1000	1000	pg/L	100	(78 - 139)	0.68	(0 - 28)
OCDD	2000	2070	pg/L	103	(80 - 132)		
	2000	2070	pg/L	104	(80 - 132)	0.12	(0 - 26)
2,3,7,8-TCDF	200	218	pg/L	109	(71 - 142)		
	200	223	pg/L	112	(71 - 142)	2.2	(0 - 35)
1,2,3,7,8-PeCDF	1000	1010	pg/L	101	(76 - 135)		
	1000	1030	pg/L	103	(76 - 135)	1.5	(0 - 33)
2,3,4,7,8-PeCDF	1000	901	pg/L	90	(74 - 137)		
	1000	969	pg/L	97	(74 - 137)	7.2	(0 - 39)
1,2,3,4,7,8-HxCDF	1000	1070	pg/L	107	(75 - 131)		
	1000	1080	pg/L	108	(75 - 131)	0.51	(0 - 26)
1,2,3,6,7,8-HxCDF	1000	877	pg/L	88	(76 - 133)		
	1000	971	pg/L	97	(76 - 133)	10	(0 - 32)
2,3,4,6,7,8-HxCDF	1000	777	pg/L	78	(80 - 137)		
	1000	996	pg/L	100	(80 - 137)	25	(0 - 28)
1,2,3,7,8,9-HxCDF	1000	901	pg/L	90	(77 - 142)		
	1000	1120	pg/L	112	(77 - 142)	21	(0 - 30)
1,2,3,4,6,7,8-HpCDF	1000	1010	pg/L	101	(79 - 133)		
	1000	1020	pg/L	102	(79 - 133)	1.3	(0 - 25)
1,2,3,4,7,8,9-HpCDF	1000	955	pg/L	96	(83 - 130)		
	1000	1100	pg/L	110	(83 - 130)	14	(0 - 25)
OCDF	2000	2010	pg/L	100	(72 - 140)		
	2000	2040	pg/L	102	(72 - 140)	1.7	(0 - 35)
			PERCENT RECOVERY				
INTERNAL STANDARD				RECOVERY LIMITS			
13C-2,3,7,8-TCDD			70	(40 - 135)			
			76	(40 - 135)			
13C-1,2,3,7,8-PeCDD			59	(40 - 135)			
			71	(40 - 135)			
13C-1,2,3,6,7,8-HxCDD			74	(40 - 135)			

**LABORATORY CONTROL SAMPLE DATA REPORT**

**Trace Level Organic Compounds**

Client Lot # ...: G0D140559  
LCS Lot-Sample#: G0D230000 - 332

Work Order # ...: L0FH21AC-LCS  
L0FH21AD-LCSD

Matrix .....: WATER

<u>INTERNAL STANDARD</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
	78	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	100	(40 - 135)
	91	(40 - 135)
13C-OCDD	88	(40 - 135)
	88	(40 - 135)
13C-2,3,7,8-TCDF	53	(40 - 135)
	62	(40 - 135)
13C-1,2,3,7,8-PeCDF	63	(40 - 135)
	75	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	93	(40 - 135)
	79	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	96	(40 - 135)
	84	(40 - 135)

**Notes:**

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

Bold print denotes control parameters

- a Spiked analyte recovery is outside stated control limits.

# 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*

*lcs*

*ms/sd*

*sample raw data*

*ms tune data*

(somers only)

50/25.00/50

Quantitation Summary

TestAmerica West Sacramento  
LOFH2IAA MB 6/20/13

Run text: LX3LL-1-AA Sample text: LX3LL-1-AA :G0D160000-252B  
Run #25 Filename: 21AP10B4D5 S: 24 I: 1 Results: 21AP10B4D58290A  
Acquired: 22-APR-10 13:58:58 Processed: 22-APR-10 16:50:05  
Run: 21AP10B4D5 Analyte: 8290AHRS Cal: 8290A0412104D5  
Sample size: 1.00 L

8/26 04/23/10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	175588800	0.80 y	19:33	-	131.9828	-	-	n
13C-2,3,7,8-TCDF	285835000	0.80 y	18:59	1.52	1070.4448	0.4563	53.5	n
2,3,7,8-TCDF	205564	0.77 y	19:00	0.95	1.5215	0.2694	-	n
Total TCDF	581687	0.98 n	16:17	0.95	<del>4.3055</del>	0.2694	-	n
13C-2,3,7,8-TCDD	213290800	0.81 y	19:46	0.95	1279.0707	0.7338	64.0	n
2,3,7,8-TCDD	19934	0.10 n	19:48	1.02	0.1831	<del>0.1191</del>	-	n
Total TCDD	96071	0.48 n	15:59	1.02	<del>0.0023</del>	0.1191	-	n
37Cl-2,3,7,8-TCDD	229768000	1.00 y	19:47	2.26	578.6750	0.2133	72.3	n
13C-1,2,3,7,8-PeCDF	217964800	1.60 y	24:40	1.05	1181.8596	0.1663	59.1	n
1,2,3,7,8-PeCDF	103342	1.39 y	24:43	1.04	0.9076	0.2223	-	n
2,3,4,7,8-PeCDF	67782	1.14 n	26:11	0.98	0.6333	0.2365	-	n
Total F2 PeCDF	461064	2.22 n	22:54	1.01	<del>4.1660</del>	0.2292	-	n
Total F1 PeCDF	117408	0.28 n	16:43	1.01	<del>1.0630</del>	0.3317	-	n
13C-1,2,3,7,8-PeCDD	134356700	1.59 y	26:59	0.67	1141.2593	0.1692	57.1	n
1,2,3,7,8-PeCDD	*	* n	Not Fnd	0.98	*	0.3841	-	n
Total PeCDD	78740	1.33 y	23:56	0.98	<del>1.1937</del>	0.3841	-	n
13C-1,2,3,7,8,9-HxCDD	88928100	1.25 y	33:07	-	86.5420	-	-	n
13C-1,2,3,4,7,8-HxCDF	174828100	0.53 y	31:58	1.02	1918.2568	0.4226	95.9	n
1,2,3,4,7,8-HxCDF	112178	1.26 y	31:59	1.21	1.0583	0.1760	-	n
1,2,3,6,7,8-HxCDF	56324	0.96 n	32:05	1.34	0.4798	0.1590	-	n
2,3,4,6,7,8-HxCDF	49191	1.02 n	32:40	1.22	0.4604	0.1746	-	n
1,2,3,7,8,9-HxCDF	53488	1.46 n	33:18	1.09	0.5601	0.1954	-	n
Total HxCDF	363383	1.12 y	30:36	1.22	<del>3.4250</del>	0.1753	-	n
13C-1,2,3,6,7,8-HxCDD	109438600	1.26 y	32:51	0.81	1524.8305	0.2259	76.2	n
1,2,3,4,7,8-HxCDD	26819	0.96 n	32:48	1.01	0.4868	0.3521	-	n
1,2,3,6,7,8-HxCDD	38835	1.07 y	32:52	1.11	0.6371	0.3182	-	n
1,2,3,7,8,9-HxCDD	49390	1.28 y	33:07	1.21	0.7466	0.2932	-	n
Total HxCDD	199412	1.45 n	31:26	1.11	<del>3.2597</del>	0.3194	-	n
13C-1,2,3,4,6,7,8-HpCDF	136694100	0.44 y	34:38	0.86	1781.9942	3.0629	89.1	n
1,2,3,4,6,7,8-HpCDF	106152	1.25 n	34:38	1.31	1.1859	0.2808	-	n
1,2,3,4,7,8,9-HpCDF	67549	1.21 n	35:46	1.03	0.9636	0.3586	-	n
Total HpCDF	220871	1.25 n	34:38	1.17	<del>2.7406</del>	0.3150	-	n
13C-1,2,3,4,6,7,8-HpCDD	126051400	1.07 y	35:27	0.70	2032.2056	1.9051	101.6	n
1,2,3,4,6,7,8-HpCDD	89004	1.11 y	35:27	1.07	1.3175	0.4149	-	n
Total HpCDD	194758	2.70 n	34:38	1.07	<del>2.8830</del>	0.4149	-	n
13C-OCDD	157887200	0.92 y	37:57	0.53	3341.1585	0.0356	83.5	n

OCDF	157184	0.73	n	38:04	1.45	2.7552	0.3335	-	n
OCDD	274527	0.97	y	37:57	1.17	5.9636	0.7566	-	n



Run Text: LX3LL-1-AA

Sample text: LX3LL-1-AA :G0D160000-252B

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:8  
 Run: 25 File: 21AP10B4D5 S:24 Acq:22-APR-10 13:58:58  
 Tables: Run: 21AP10B4D5 Analyte: 8290AH $\eta$  Cal: 8290A0412104D5Results: 21AP10B4 $\eta$

Amount: 4.306 of which 1.522 named and 2.784 unnamed  
 Conc: 4.306 of which 1.522 named and 2.784 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	16:17	0.976 n	0.140	10463 10723	2.595 1.541	n	n
	2	17:07	0.926 n	0.208	14721 15900	3.488 2.244	y	n
	3	17:24	0.583 n	0.222	13075 22424	2.588 3.647	n	n
	4	17:41	1.389 n	0.187	19836 14280	4.044 2.445	y	n
	5	18:35	0.840 y	1.209	74570 88761	14.912 12.642	y	n
2,3,7,8-TCDF	6	19:00	0.765 y	1.522	89124 116440	13.956 15.444	y	n
	7	19:42	0.873 y	0.113	7124 8164	1.884 1.751	n	n
	8	21:04	0.786 y	0.704	41844 53207	7.924 6.839	y	n

Run Text: LX3LL-1-AA

Sample text: LX3LL-1-AA :G0D160000-252B

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:7  
 Run: 25 File: 21AP10B4D5 S:24 Acq:22-APR-10 13:58:58  
 Tables: Run: 21AP10B4D5 Analyte: 8290AH $\eta$  Cal: 8290A0412104D5Results: 21AP10B4 $\eta$

Amount: 0.882 of which 0.183 named and 0.699 unnamed  
 Conc: 0.882 of which 0.183 named and 0.699 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:59	0.475 n	0.033	1578 3318	12.836 1.196	y	n
	2	17:16	0.939 n	0.196	11344 12083	62.909 3.359	y	n

2,3,7,8-TCDD	3	18:46	0.276	n	0.049	2312 8368	11.185 2.153	y n	n n
	4	18:59	1.825	n	0.234	26246 14381	158.499 2.763	y n	n n
	5	19:37	0.670	y	0.070	3050 4549	20.617 1.587	y n	n n
	6	19:48	0.095	n	0.183	8672 90910	41.942 21.552	y y	n n
	7	20:12	0.801	y	0.117	5672 7083	36.560 2.553	y n	n n

Run Text: LX3LL-1-AA

Sample text: LX3LL-1-AA :G0D160000-252B

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:11  
 Run: 25 File: 21AP10B4D5 S:24 Acq:22-APR-10 13:58:58  
 Tables: Run: 21AP10B4D5 Analyte: 8290AH $\eta$  Cal: 8290A0412104D5Results: 21AP10B4 $\eta$

Amount: 4.166 of which 1.541 named and 2.625 unnamed  
 Conc: 4.166 of which 1.541 named and 2.625 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	22:54	2.222 n	0.099	9519 4284	37.018 1.240	y n	n n
	2	23:08	2.234 n	0.620	59991 26851	119.761 4.129	y y	n n
	3	23:24	1.703 y	0.131	9126 5359	27.537 1.136	y n	n n
	4	24:33	1.438 y	0.189	12291 8545	48.239 2.295	y n	n n
1,2,3,7,8-PeCDF	5	24:43	1.394 y	0.908	60166 43176	167.456 6.109	y y	n n
	6	25:16	1.848 n	0.386	30925 16735	90.826 3.602	y y	n n
	7	25:54	0.776 n	0.057	3801 4895	12.107 1.353	y n	n n
2,3,4,7,8-PeCDF	8	26:11	1.139 n	0.633	41201 36175	82.039 4.333	y y	n n
	9	26:23	0.622 n	0.047	3177 5111	16.268 1.461	y n	n n
	10	26:35	1.098 n	0.983	66001 60086	136.425 6.724	y y	n n
	11	28:28	1.597 y	0.113	7680 4810	27.514 1.581	y n	n n

Run Text: LX3LL-1-AA

Sample text: LX3LL-1-AA :G0D160000-252B

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:3  
 Run: 25 File: 21AP10B4D5 S:24 Acq:22-APR-10 13:58:58  
 Tables: Run: 21AP10B4D5 Analyte: 8290AH $\eta$  Cal: 8290A0412104D5Results: 21AP10B4 $\eta$

Amount: 1.063 of which \* named and 1.063 unnamed  
 Conc: 1.063 of which \* named and 1.063 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	16:43	0.283 n	0.132	8867 31386	4.504 5.241	y	n
	2	20:44	0.409 n	0.199	13393 32784	4.768 4.824	y	n
	3	21:23	1.537 y	0.731	48944 31843	18.082 4.087	y	n

Totals Results TestAmerica West Sacramento

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Run Text: LX3LL-1-AA

Sample text: LX3LL-1-AA :G0D160000-252B

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:8  
 Run: 25 File: 21AP10B4D5 S:24 Acq:22-APR-10 13:58:58  
 Tables: Run: 21AP10B4D5 Analyte: 8290AH $\eta$  Cal: 8290A0412104D5Results: 21AP10B4 $\eta$

Amount: 1.194 of which \* named and 1.194 unnamed  
 Conc: 1.194 of which \* named and 1.194 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	23:56	1.334 y	0.124	4663 3495	1.550 11.891	n	n
	2	24:35	1.295 n	0.118	4745 3663	1.805 16.074	n	n
	3	24:39	1.551 y	0.327	13098 8444	3.129 33.179	y	n
	4	25:15	3.827 n	0.036	3520 920	1.152 5.552	n	n
	5	26:07	0.782 n	0.107	4309 5514	1.747 17.853	n	n
	6	26:11	0.873 n	0.120	4812 5514	1.265 17.853	n	n
	7	26:17	1.714 y	0.079	3307 1929	1.358 12.233	n	n
	8	26:34	10.1 $\eta$ n	0.283	73920 7312	8.101 39.523	y	n

Run Text: LX3LL-1-AA

Sample text: LX3LL-1-AA :G0D160000-252B

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:7  
 Run: 25 File: 21AP10B4D5 S:24 Acq:22-APR-10 13:58:58  
 Tables: Run: 21AP10B4D5 Analyte: 8290AH7 Cal: 8290A0412104D5Results: 21AP10B47

Amount: 3.425 of which 2.559 named and 0.866 unnamed  
 Conc: 3.425 of which 2.559 named and 0.866 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	30:36	1.118 y	0.286	16069 14369	5.118 3.924	y	n
	2	30:51	1.487 n	0.338	23856 16046	6.411 5.015	y	n
	3	31:31	1.923 n	0.243	22165 11527	7.534 4.574	y	n
1,2,3,4,7,8-HxCDF	4	31:59	1.256 y	1.058	62465 49714	19.256 12.772	y	n
1,2,3,6,7,8-HxCDF	5	32:05	0.964 n	0.480	31179 32354	9.196 9.966	y	n
2,3,4,6,7,8-HxCDF	6	32:40	1.021 n	0.460	27231 26661	8.461 6.912	y	n
1,2,3,7,8,9-HxCDF	7	33:18	1.459 n	0.560	34845 23878	8.231 8.705	y	n

Run Text: LX3LL-1-AA

Sample text: LX3LL-1-AA :G0D160000-252B

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:8  
 Run: 25 File: 21AP10B4D5 S:24 Acq:22-APR-10 13:58:58  
 Tables: Run: 21AP10B4D5 Analyte: 8290AH7 Cal: 8290A0412104D5Results: 21AP10B47

Amount: 3.260 of which 1.871 named and 1.389 unnamed  
 Conc: 3.260 of which 1.871 named and 1.389 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	31:26	1.445 n	0.217	8503 5883	3.691 1.609	y	n
	2	31:58	2.886 n	0.432	33785 11709	8.149 2.962	y	n
	3	32:05	3.437 n	0.154	14371 4182	4.029 2.127	y	n
	4	32:38	1.840 n	0.338	16869	6.021	y	n

					9167	3.302	y	n
1,2,3,4,7,8-HxCDD	5	32:48	0.963 n	0.487	14846	5.408	y	n
					15422	4.180	y	n
1,2,3,6,7,8-HxCDD	6	32:52	1.069 y	0.637	20064	6.050	y	n
					18771	4.414	y	n
1,2,3,7,8,9-HxCDD	7	33:07	1.282 y	0.747	27746	9.426	y	n
					21644	5.348	y	n
	8	33:18	2.844 n	0.248	19124	6.638	y	n
					6724	2.100	n	n

Totals Results TestAmerica West Sacramento

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Run Text: LX3LL-1-AA

Sample text: LX3LL-1-AA :G0D160000-252B

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:3  
 Run: 25 File: 21AP10B4D5 S:24 Acq:22-APR-10 13:58:58  
 Tables: Run: 21AP10B4D5 Analyte: 8290AH $\eta$  Cal: 8290A0412104D5Results: 21AP10B4 $\eta$

Amount: 2.741 of which 2.150 named and 0.591 unnamed  
 Conc: 2.741 of which 2.150 named and 0.591 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	34:38	1.251 n	1.186	65115	9.749	y	n
					52035	18.701	y	n
	2	34:57	0.866 n	0.591	24048	3.794	y	n
					27766	7.133	y	n
1,2,3,4,7,8,9-HpCDF	3	35:46	1.213 n	0.964	40163	5.369	y	n
					33112	11.793	y	n

Run Text: LX3LL-1-AA

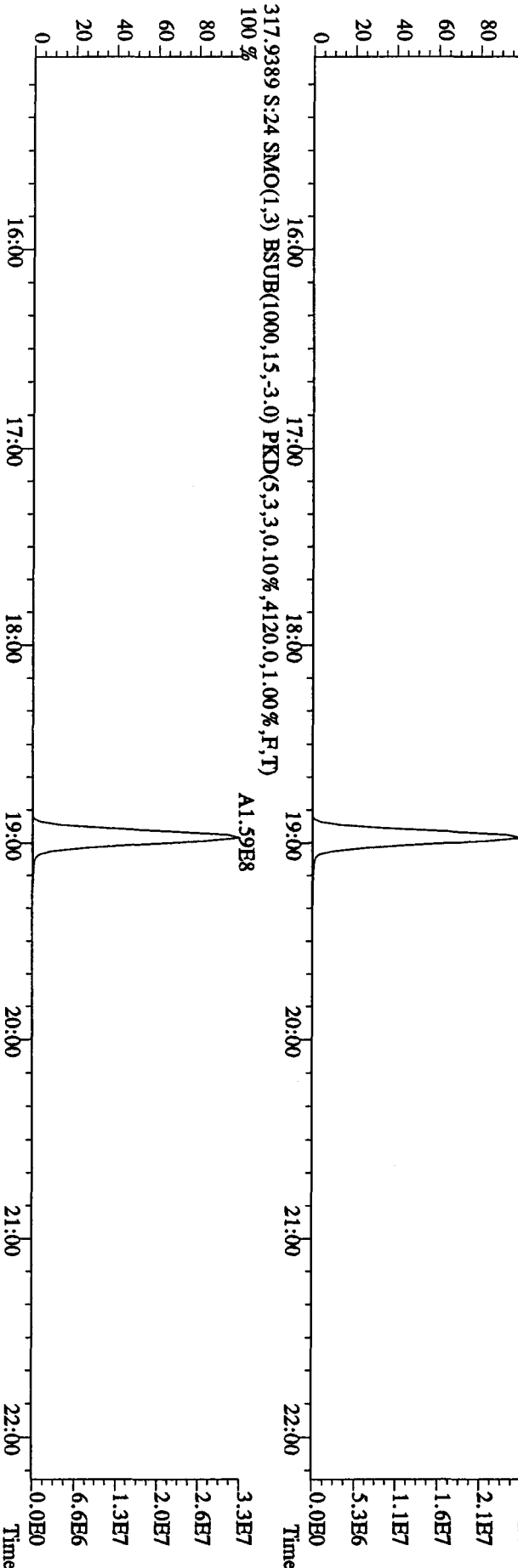
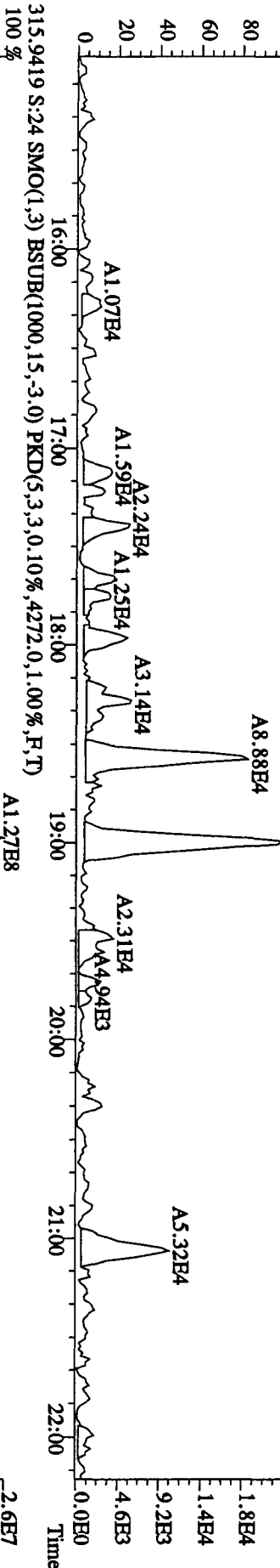
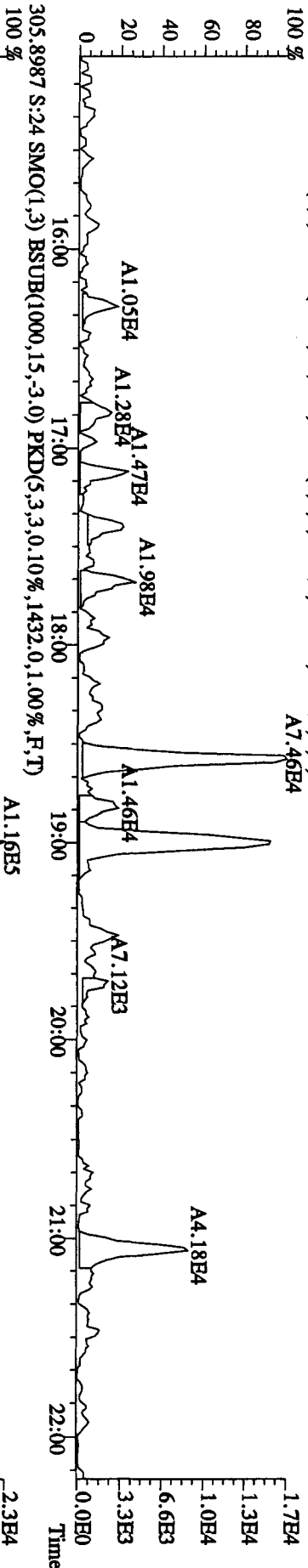
Sample text: LX3LL-1-AA :G0D160000-252B

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:3  
 Run: 25 File: 21AP10B4D5 S:24 Acq:22-APR-10 13:58:58  
 Tables: Run: 21AP10B4D5 Analyte: 8290AH $\eta$  Cal: 8290A0412104D5Results: 21AP10B4 $\eta$

Amount: 2.883 of which 1.318 named and 1.565 unnamed  
 Conc: 2.883 of which 1.318 named and 1.565 unnamed

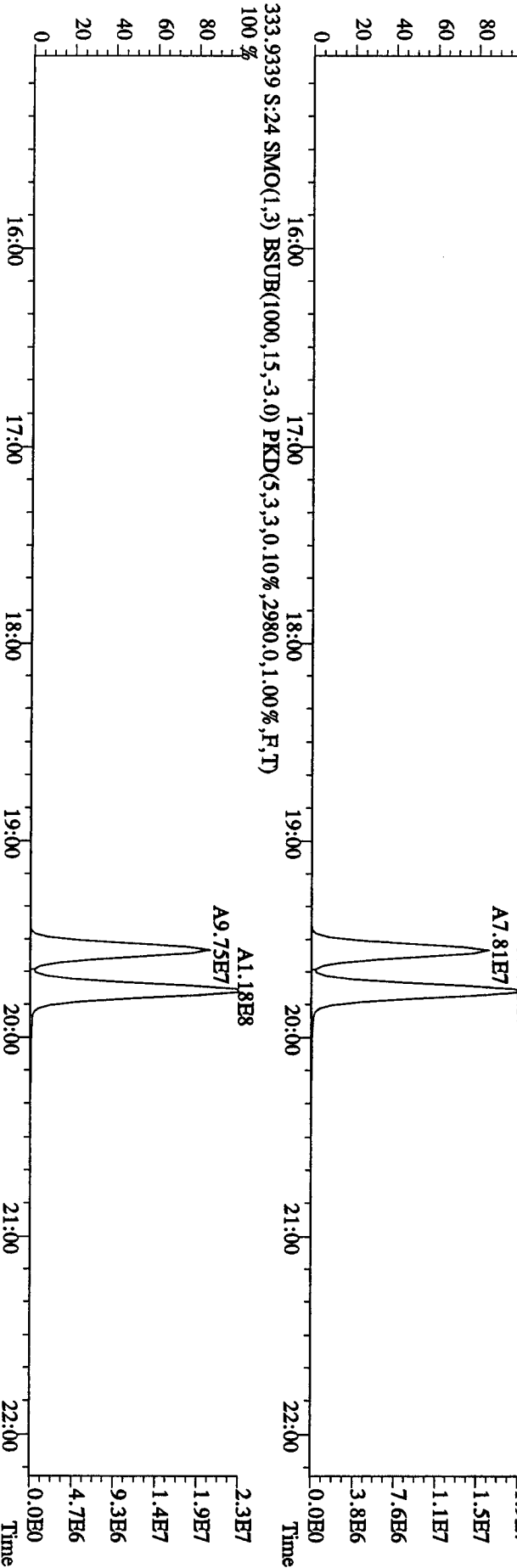
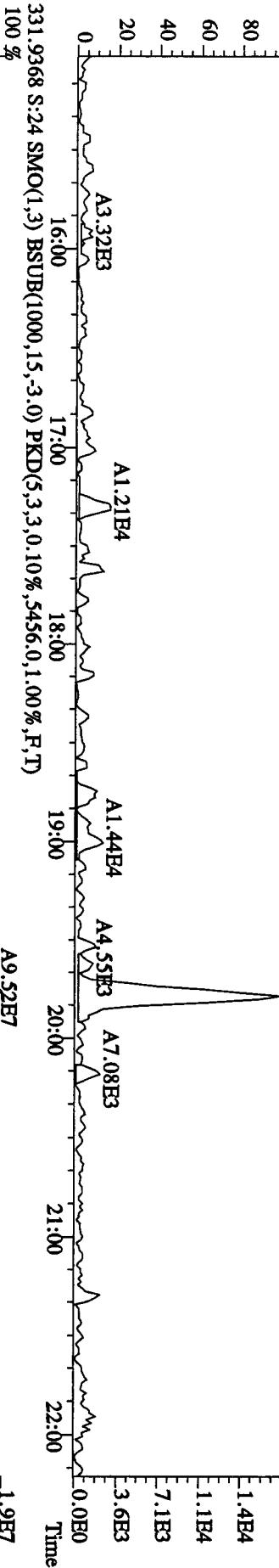
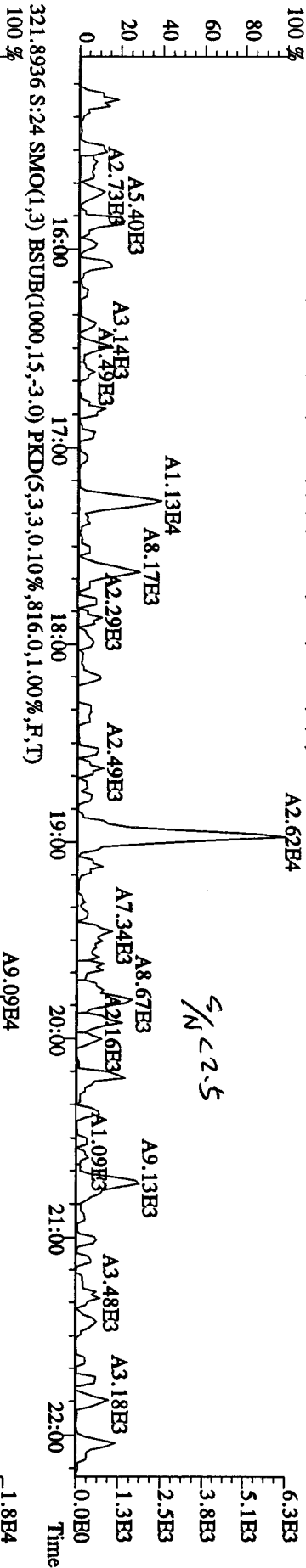
Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	34:38	2.701 n	0.285	25521	6.888	y	n
					9449	1.815	n	n
	2	34:53	0.919 y	1.280	41405	10.755	y	n
					45073	8.032	y	n
1,2,3,4,6,7,8-HpCDD	3	35:27	1.108 y	1.318	46786	10.204	y	n
					42218	8.045	y	n

File:21AP10B4D5 #1-434 Acq:22-APR-2010 13:58:58 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#24 Text:LX3LL-1-AA :G0D160000-252B Exp:DIOXINRES8290A  
 303.9016 S:24 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1092.0,1.00%,F,T)

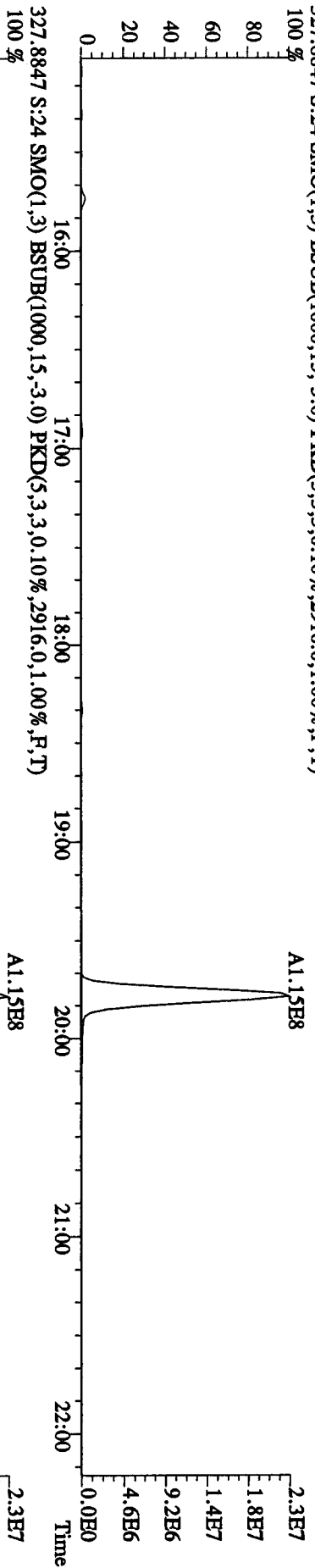




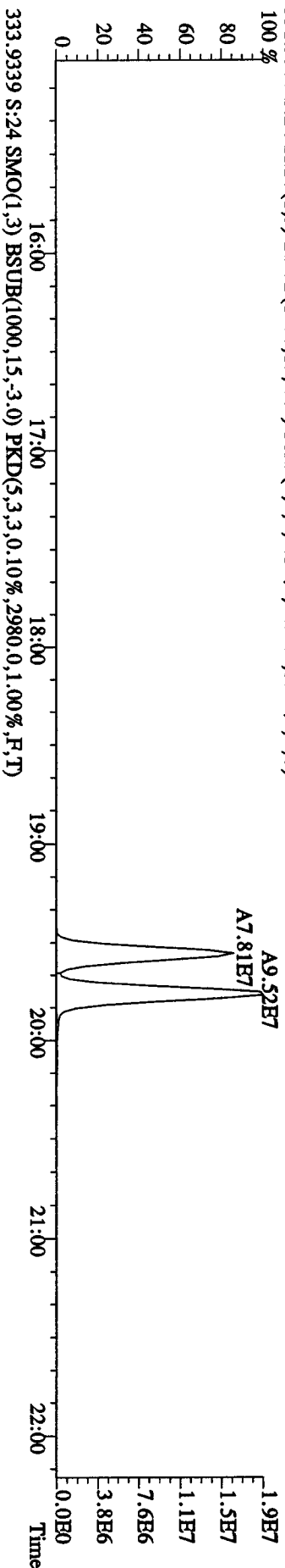
File:21AP10B4D5 #1-434 Acq:22-APR-2010 13:58:58 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#24 Text:LX3L1-AA :GOD160000-252B Exp:DIOXINRES8290A  
 319.8965 S:24 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,40.0,1.00%,F,T)



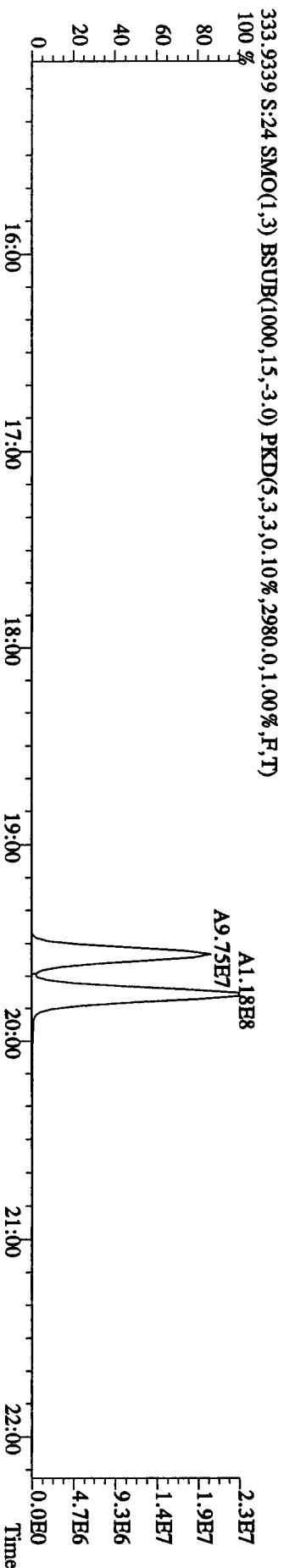
File:21AP10B4D5 #1-434 Acq:22-APR-2010 13:58:58 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#24 Text:LX31L-1-AA :G0D160000-252B Exp:DIOXINRES8290A  
 327.8847 S:24 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2916,0,1,1.00%,F,T) 100 %



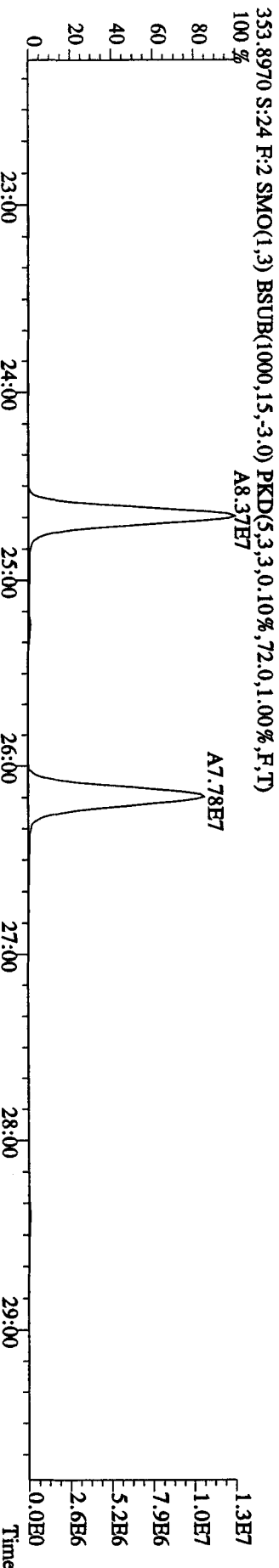
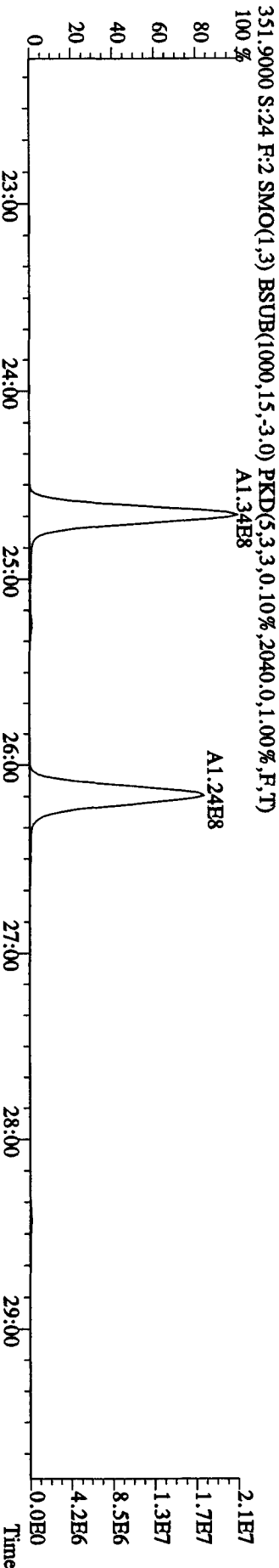
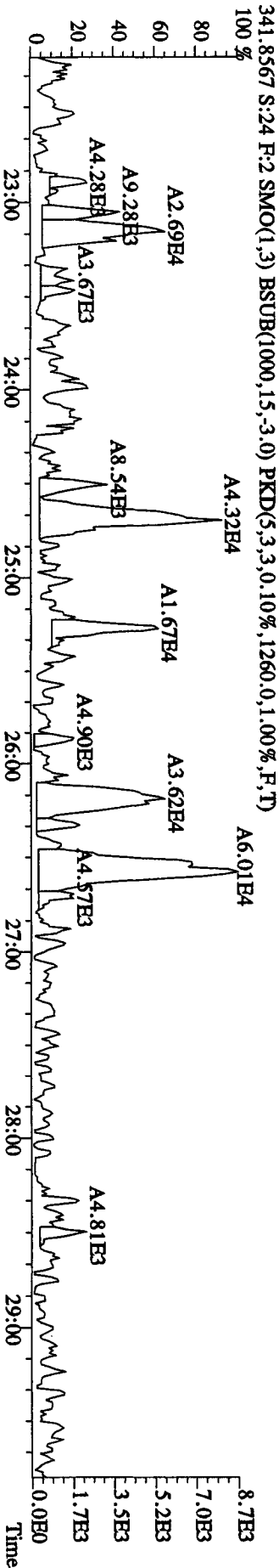
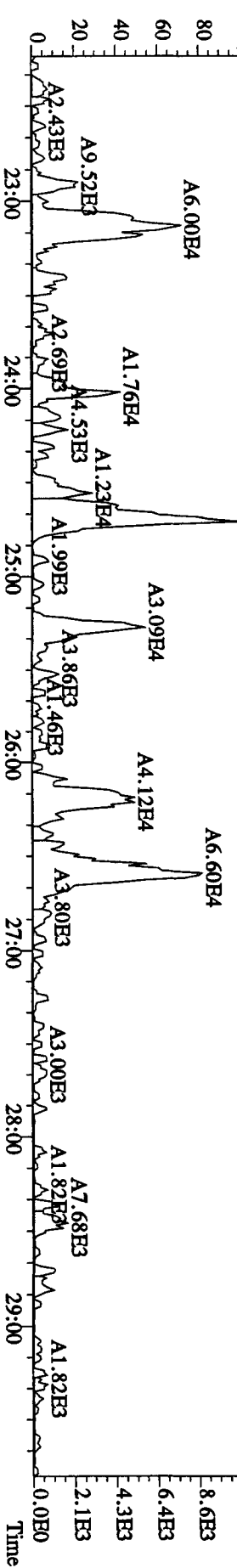
331.9368 S:24 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5456,0,1,1.00%,F,T) 100 %



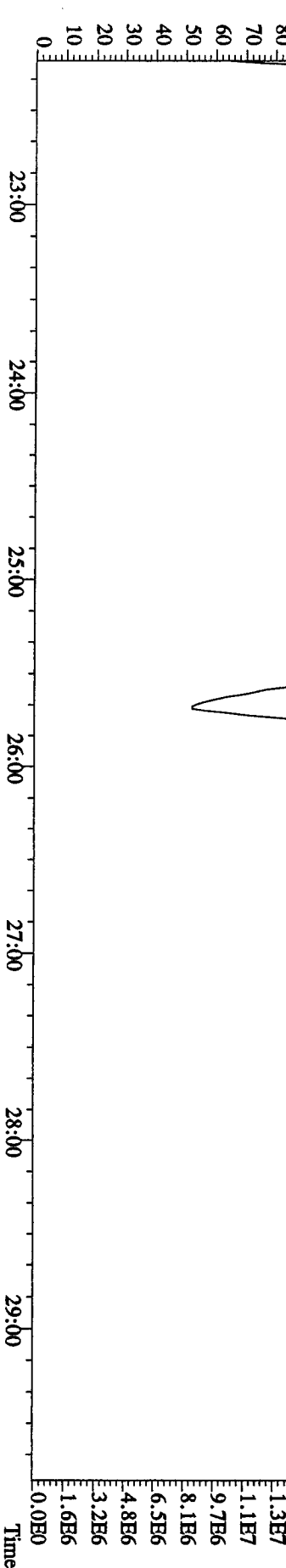
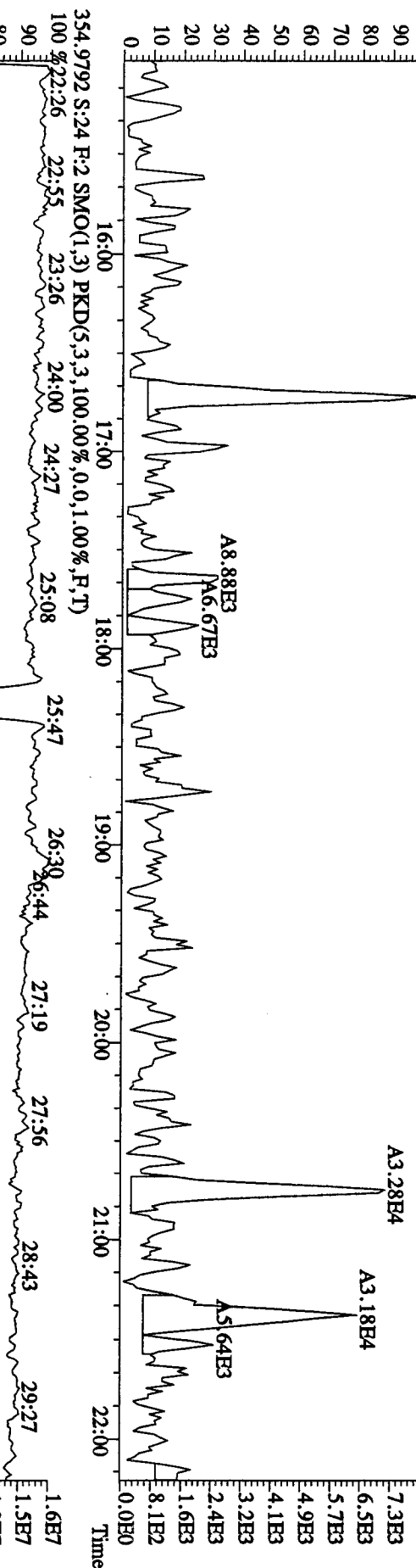
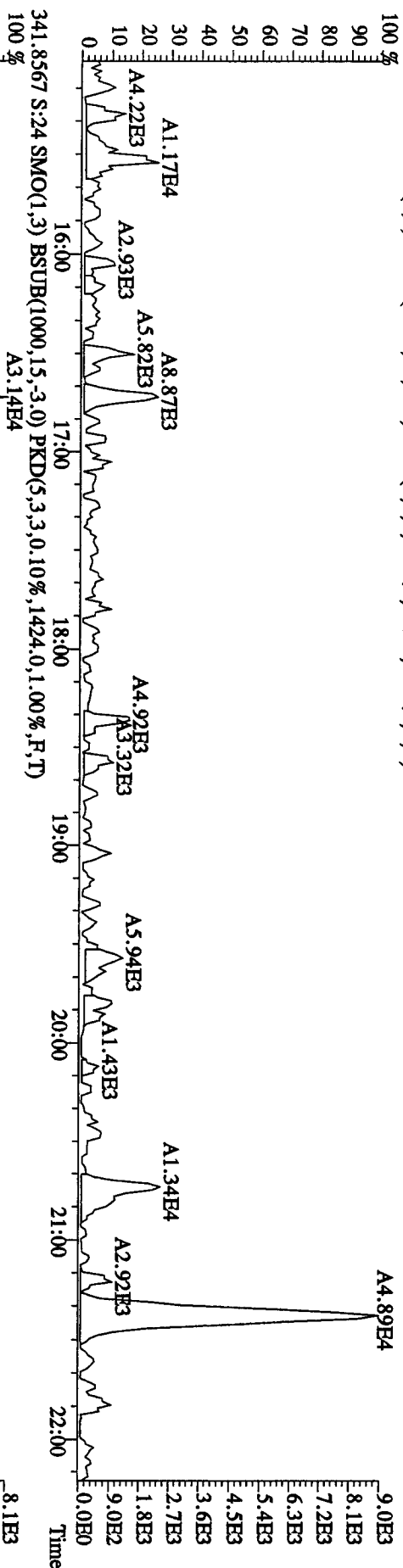
333.9339 S:24 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2980,0,1,1.00%,F,T) 100 %



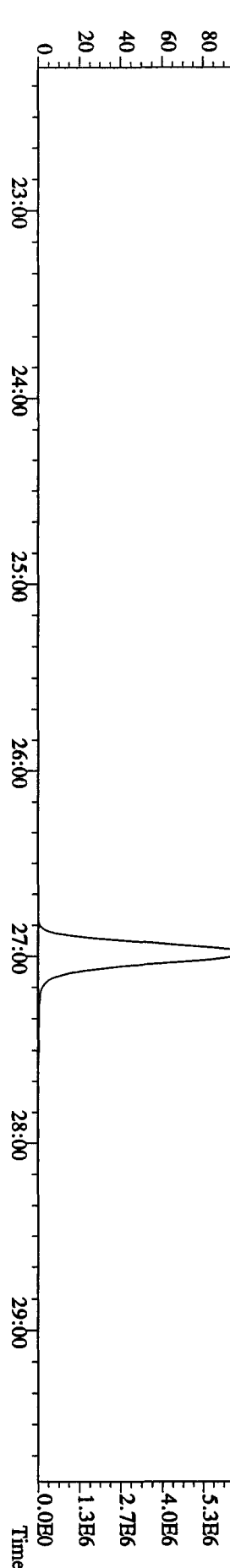
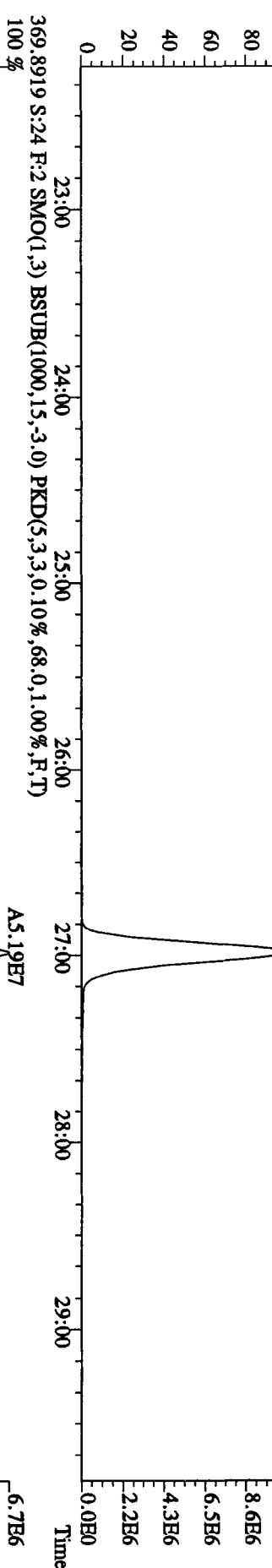
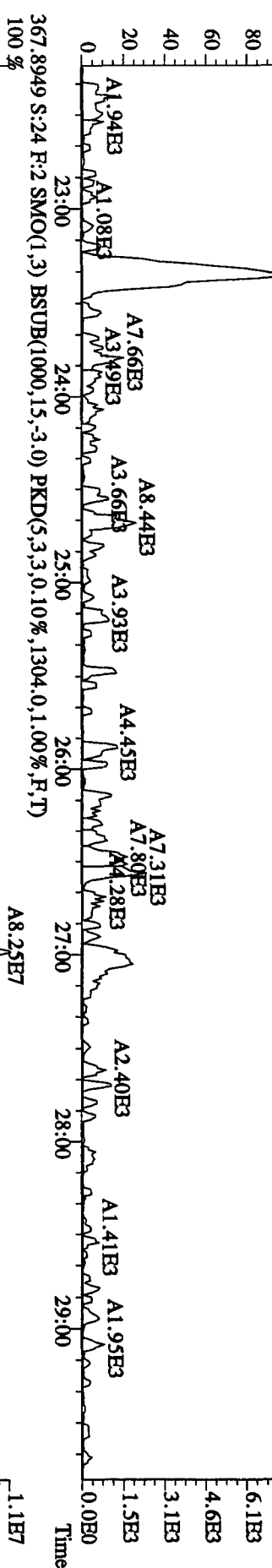
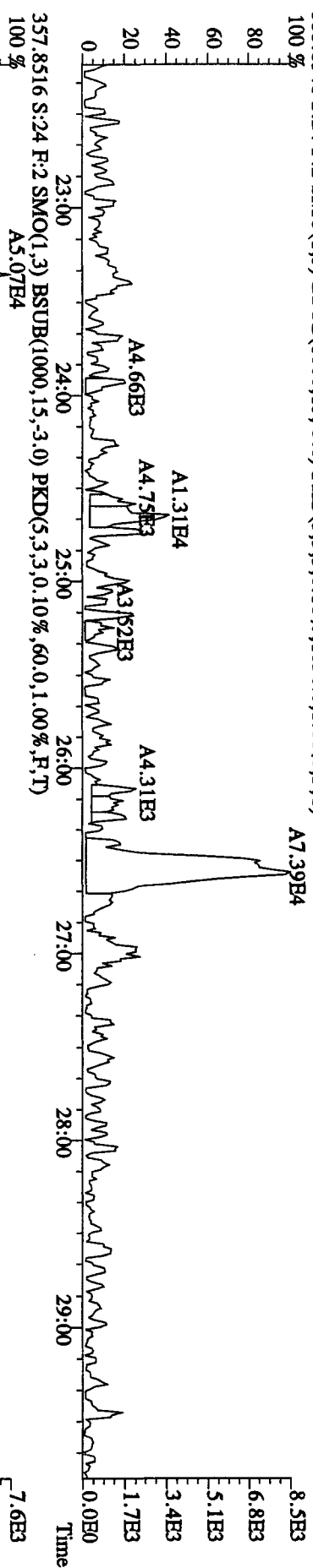
File:21ADP10B4D5 #1-604 Acq:22-APR-2010 13:58:58 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#24 Text:LX3LL-1-AA :G0D160000-252B Exp:DIOXINRES8290A  
 339,8597 S:24 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64.0,1.00%,F,T)  
 100 %



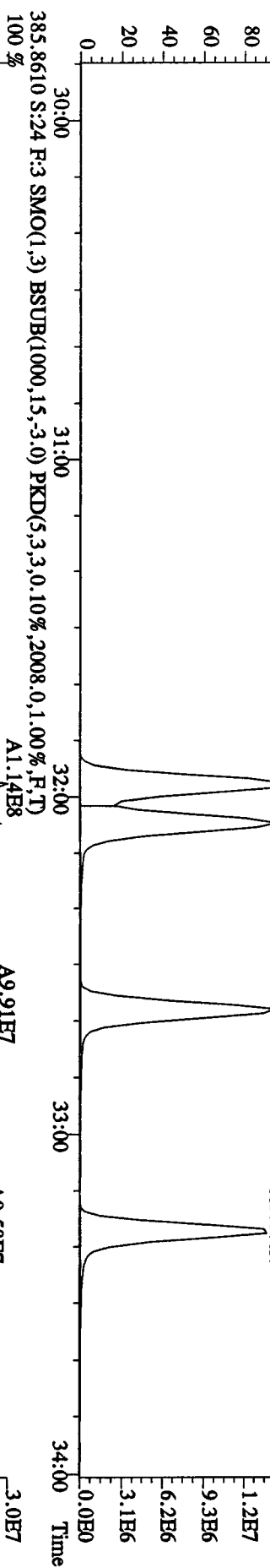
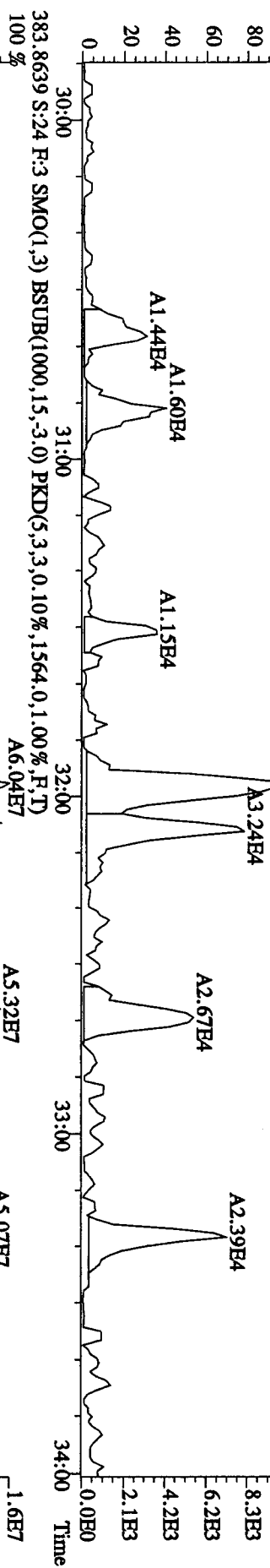
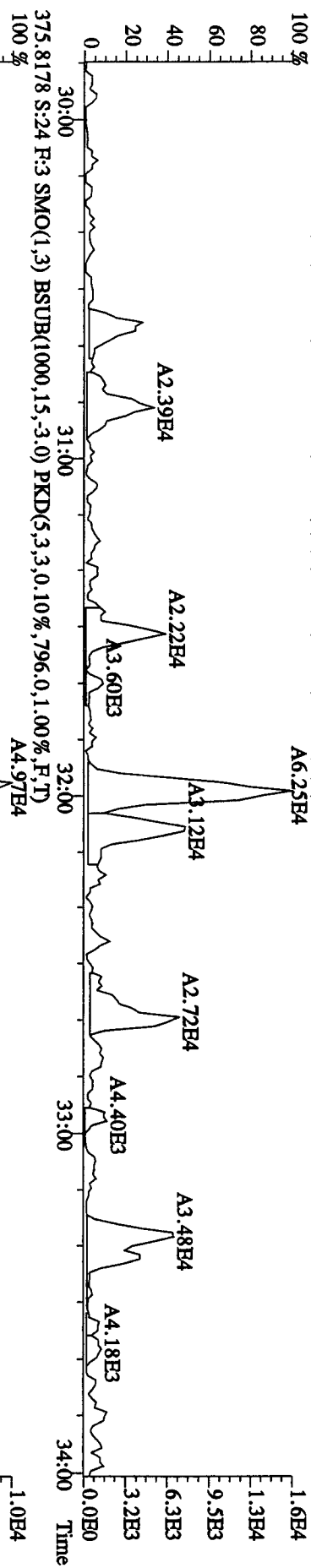
File:21AP10B4D5 #1-434 Acq:22-APR-2010 13:58:58 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#24 Text:LX3LL-1-AA :GOD160000-252B Exp:DIOXINRES8290A  
 339.8597 S:24 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,492.0,1.00%,F,T)



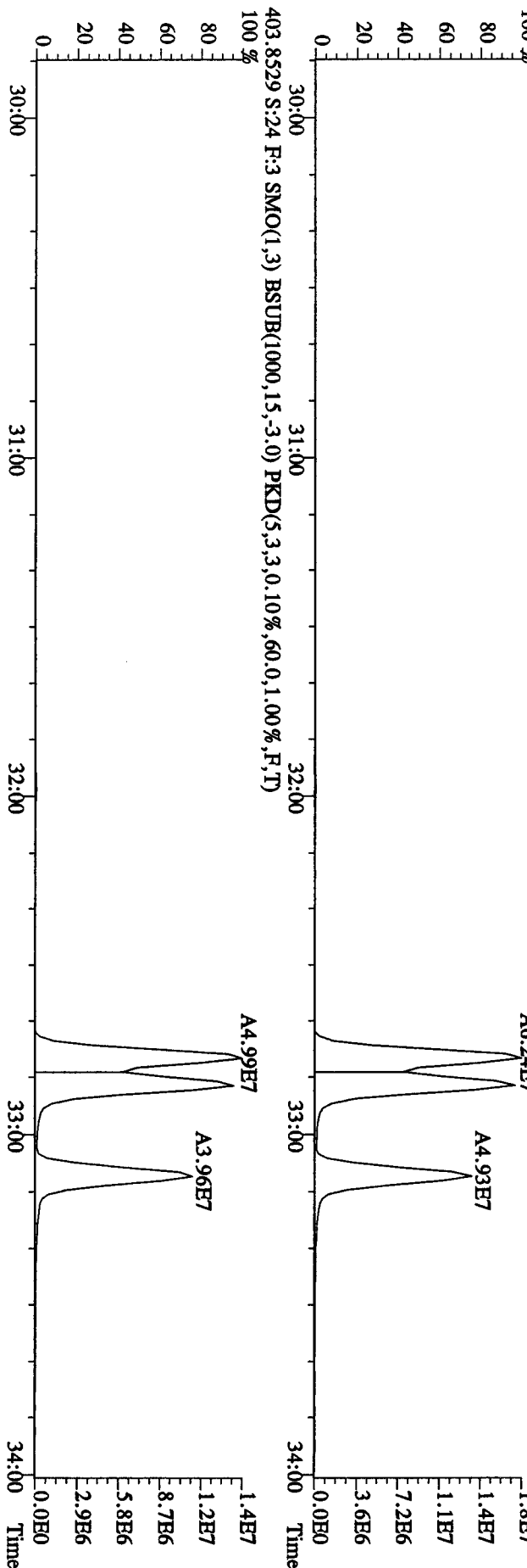
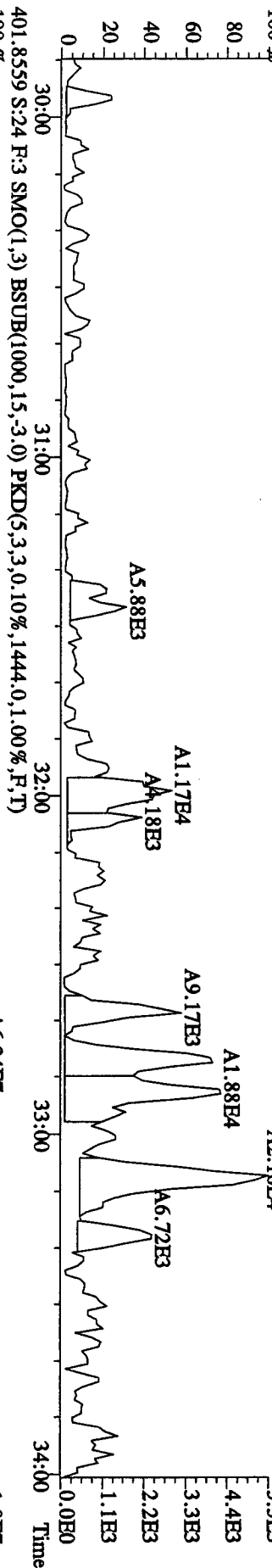
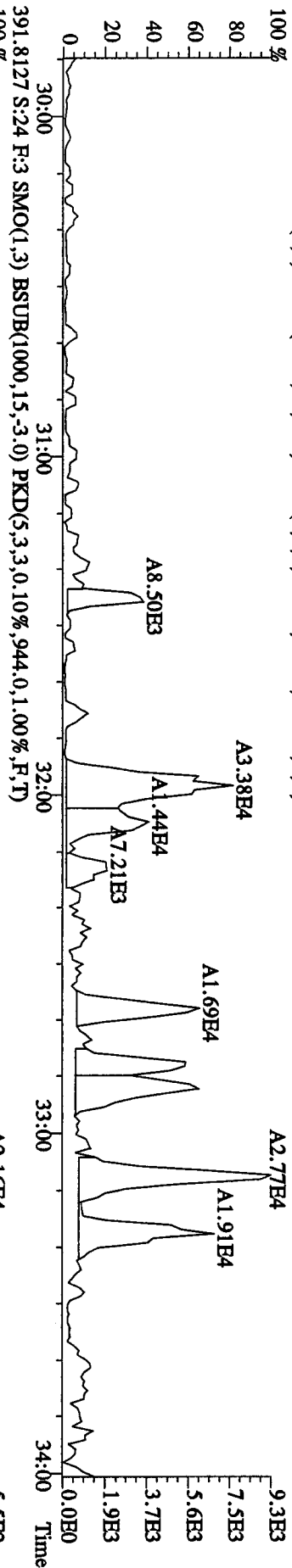
File:21AP10B4D5 #1-604 Acq:22-APR-2010 13:58:58 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#24 Text:LX3LL-1-AA :G0D160000-252B Exp:DIOXINRES8290A  
 355,8546 S:24 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1036,0,1.00%,F,T)



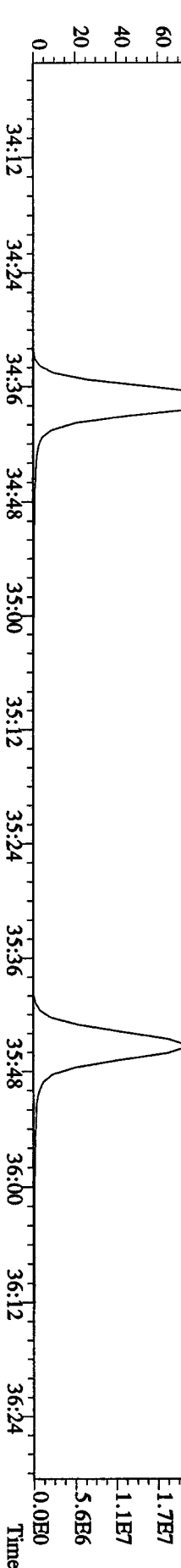
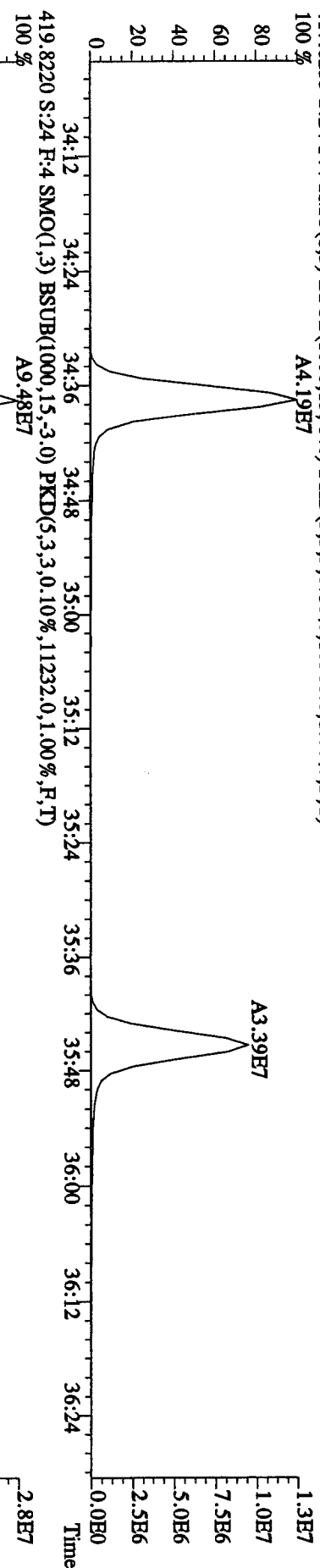
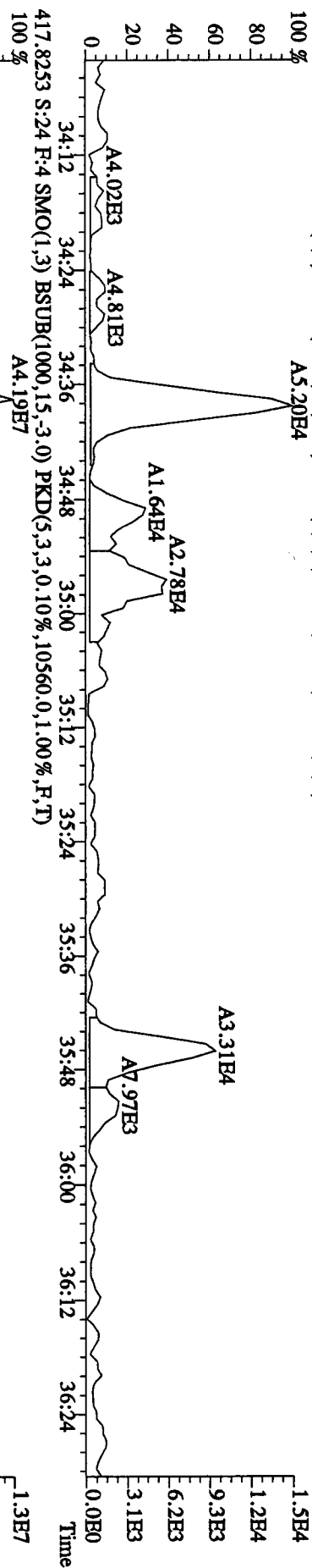
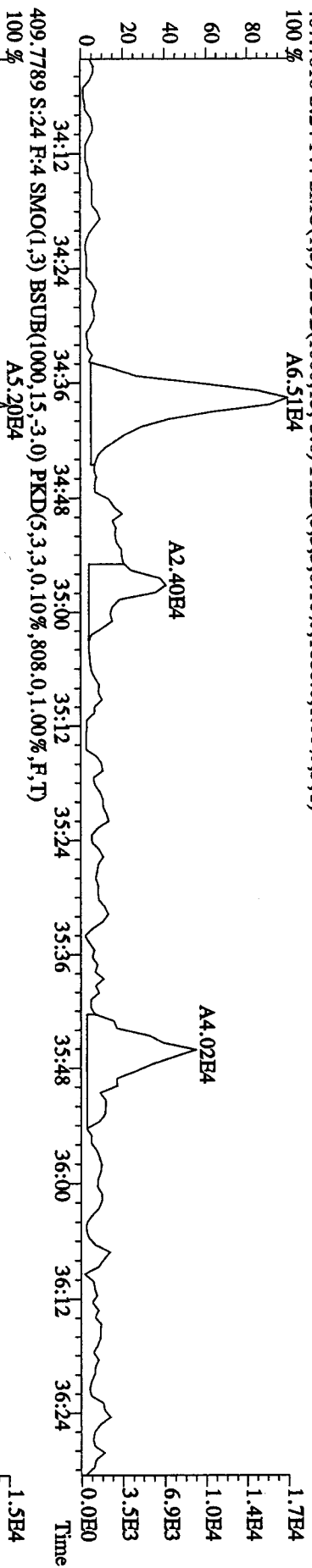
File:21AP10B4D5 #1-317 Acq:22-APR-2010 13:58:58 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#24 Text:LX31L-1-AA :G0D160000-252B Exp:DIOXINRES8290A  
 373.8208 S:24 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,808,0,1.00%,F,T)  
 100 % A6.25E4



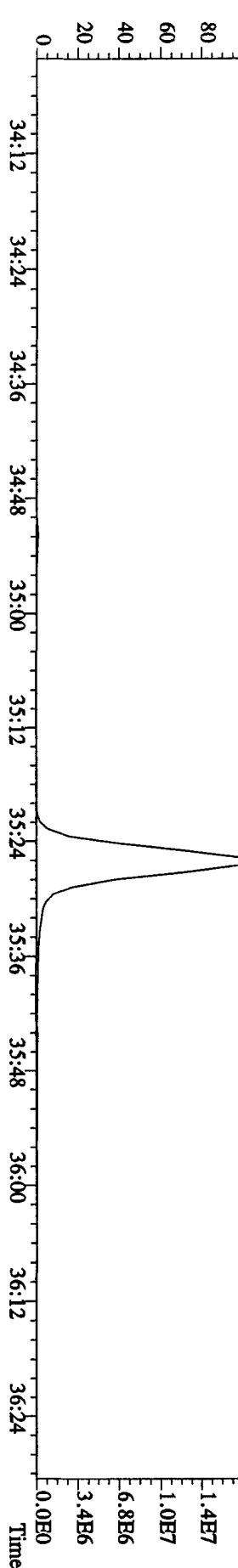
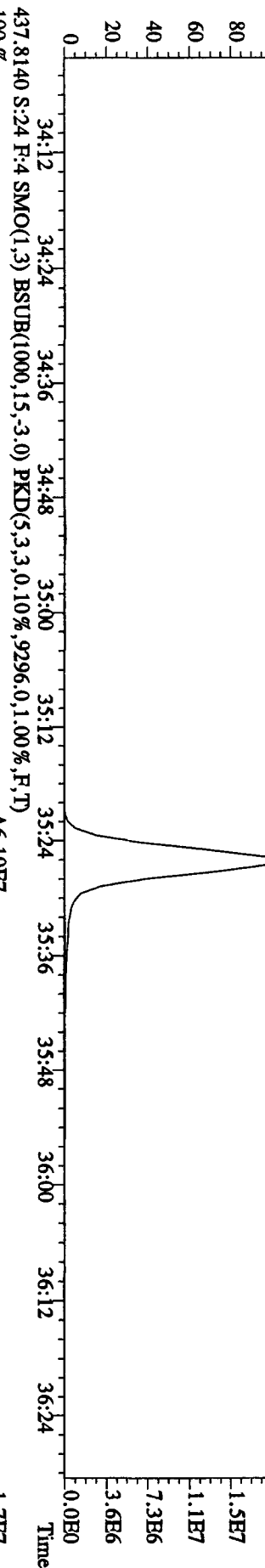
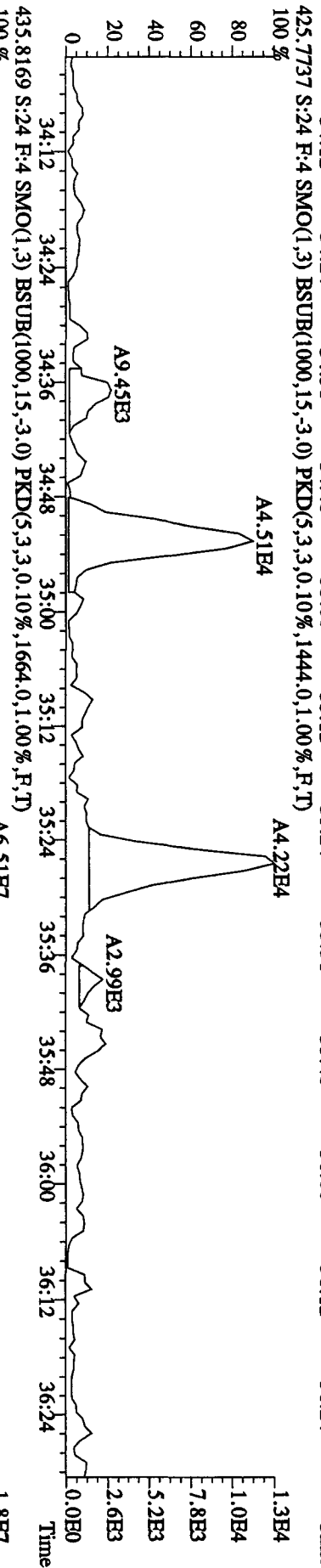
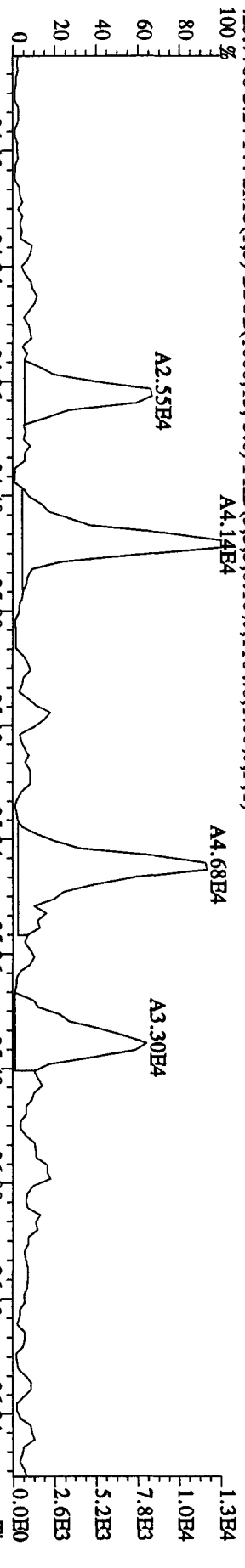
File:21AP10B4D5 #1-317 Acq:22-APR-2010 13:58:58 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#24 Text:LX31L-1-AA :G0D160000-252B Exp:DIOXINRES8290A  
 389.8157 S:24 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,912.0,1.00%,F,T) 100 %



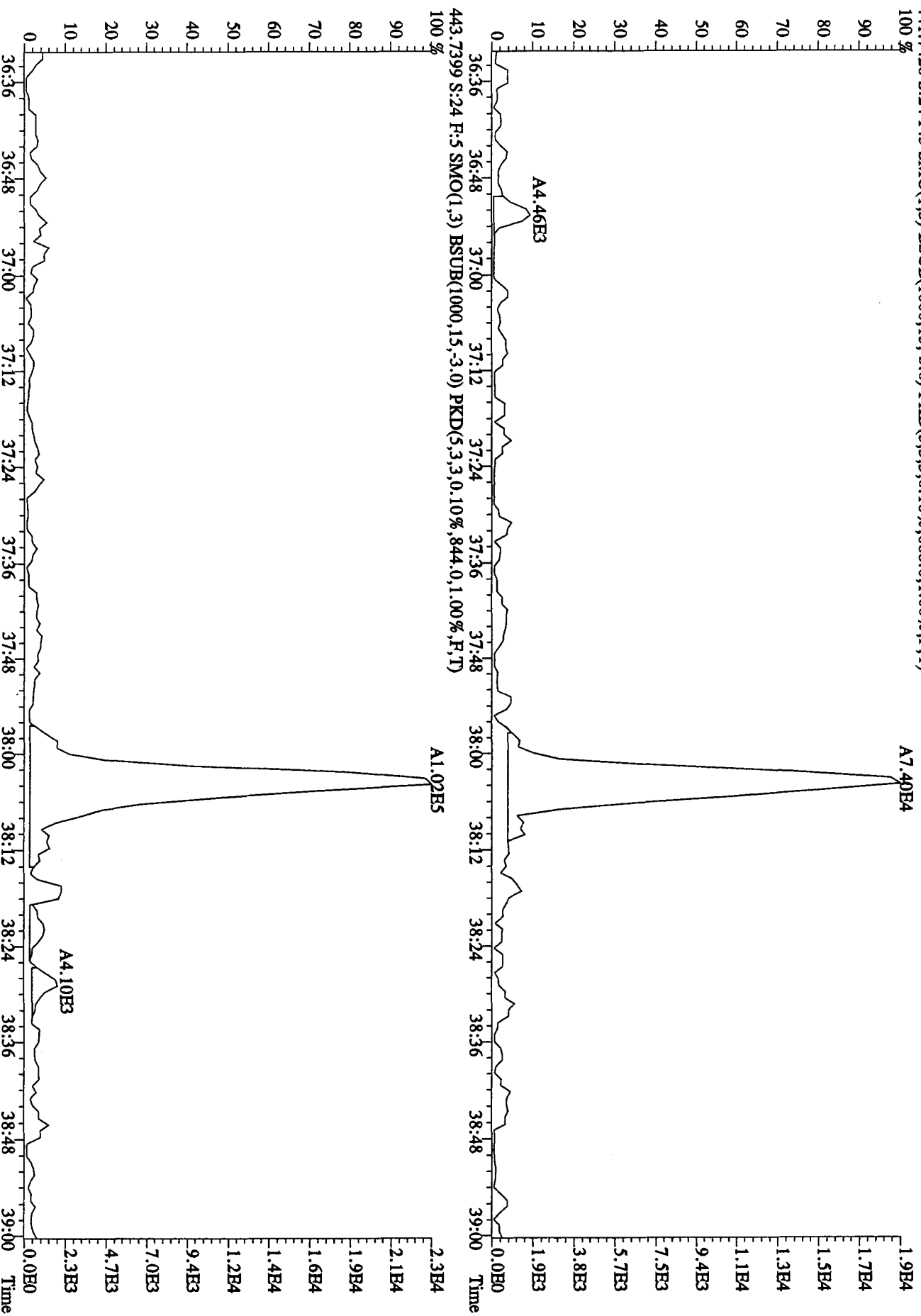
File:21AP10B4D5 #1-198 Acq:22-APR-2010 13:58:58 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#24 Text:LX3LL-1-AA :GDD160000-252B Exp:DIOXINRES8290A  
 407.7818 S:24 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1688,0,1,00%,F,T)  
 100 %



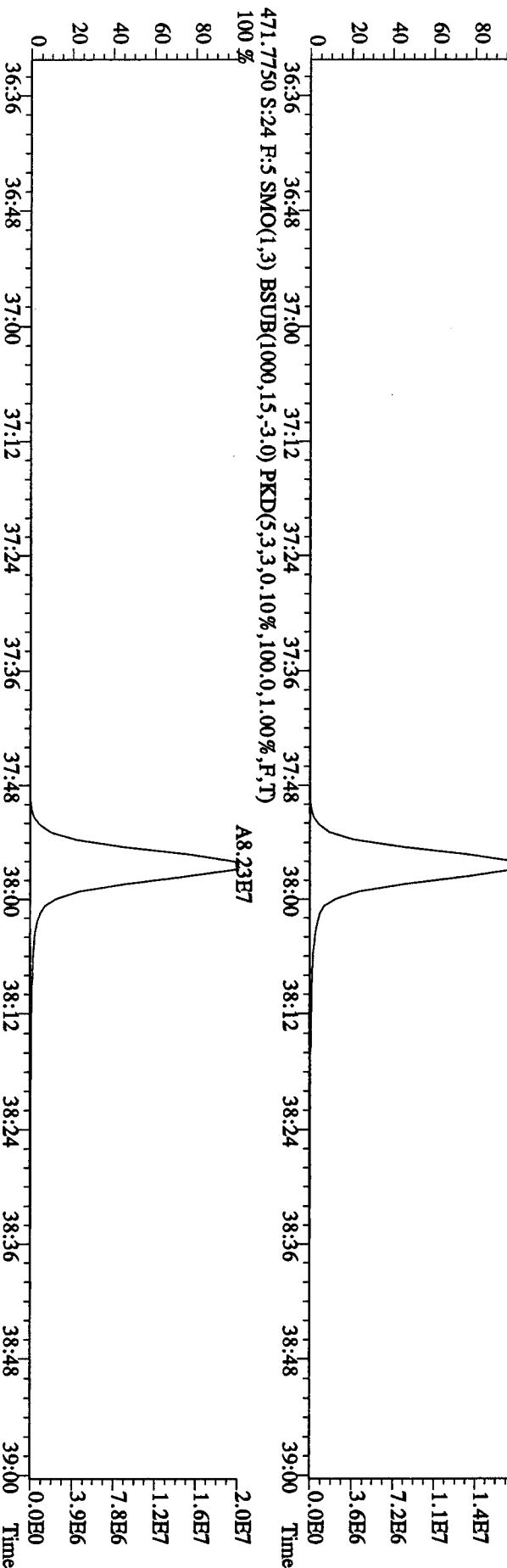
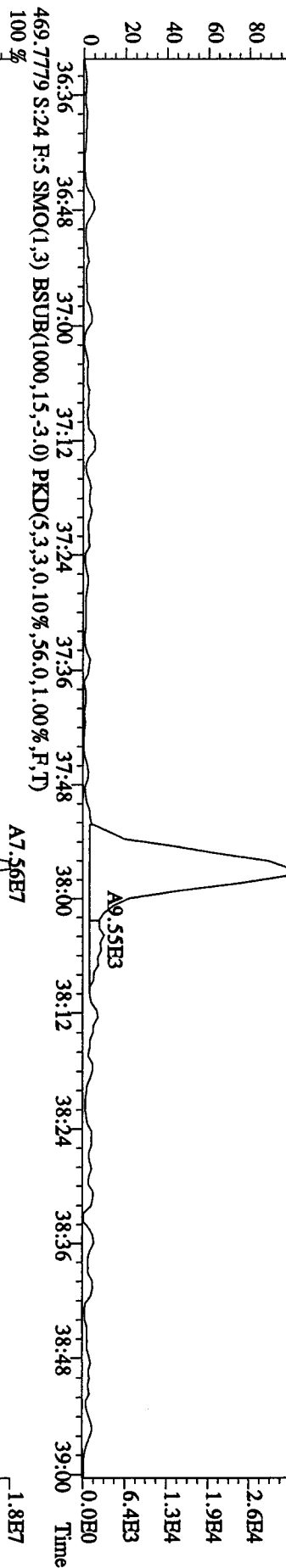
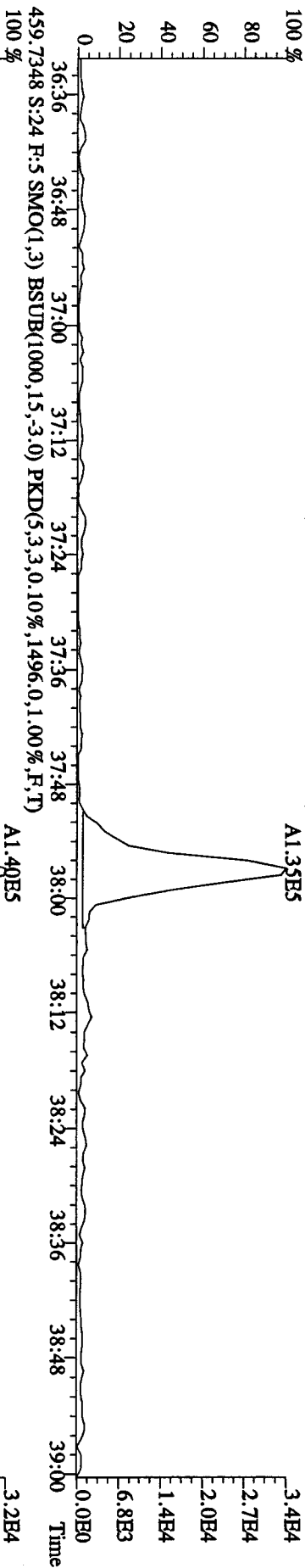




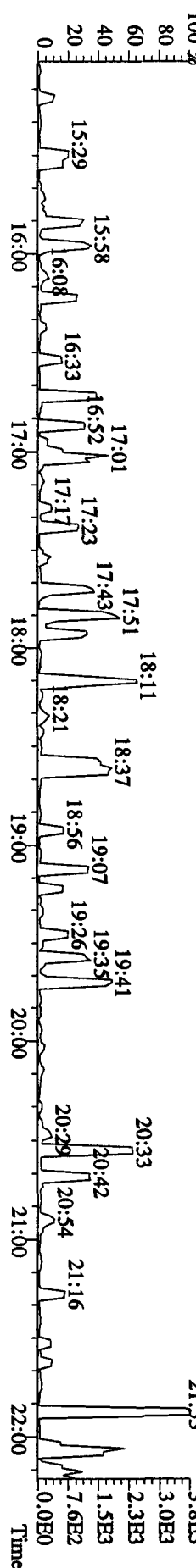
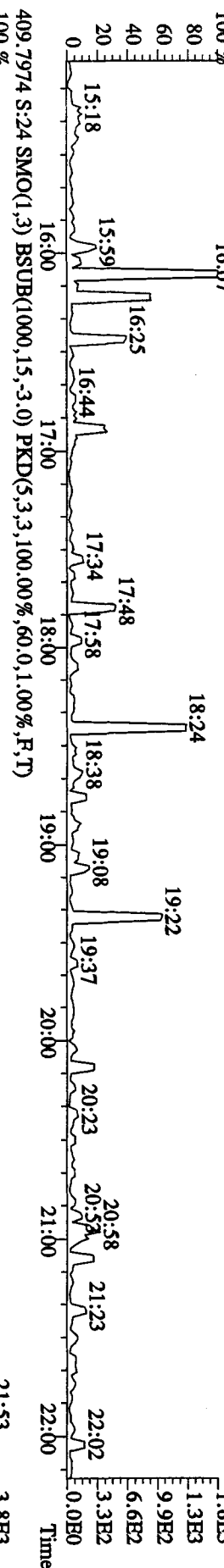
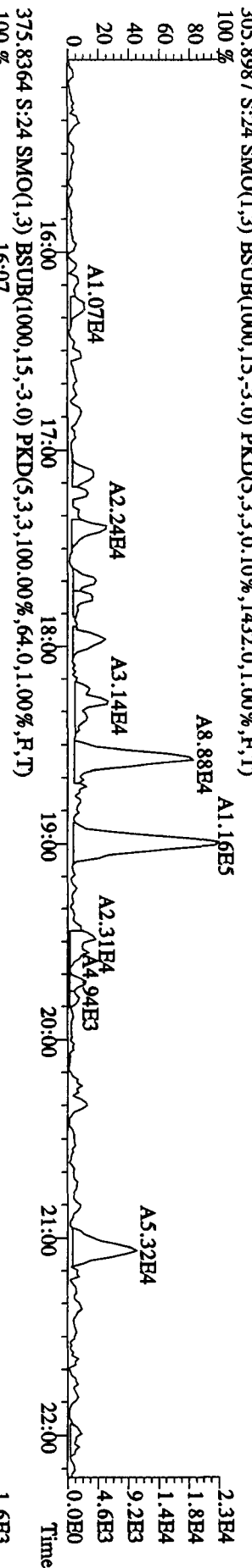
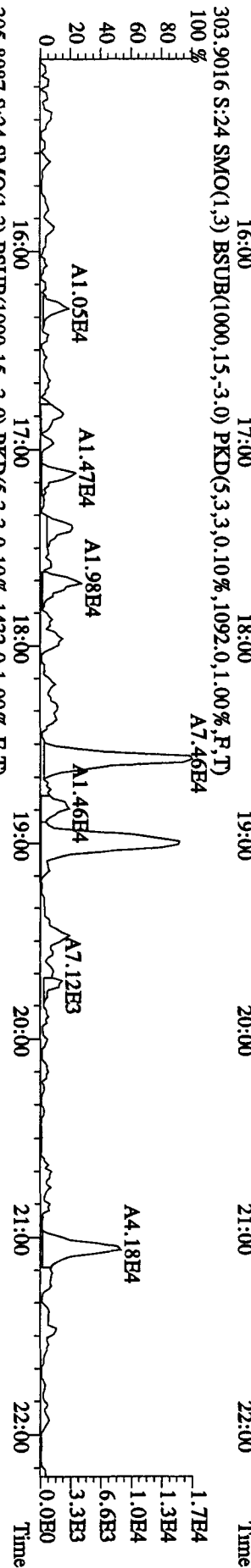
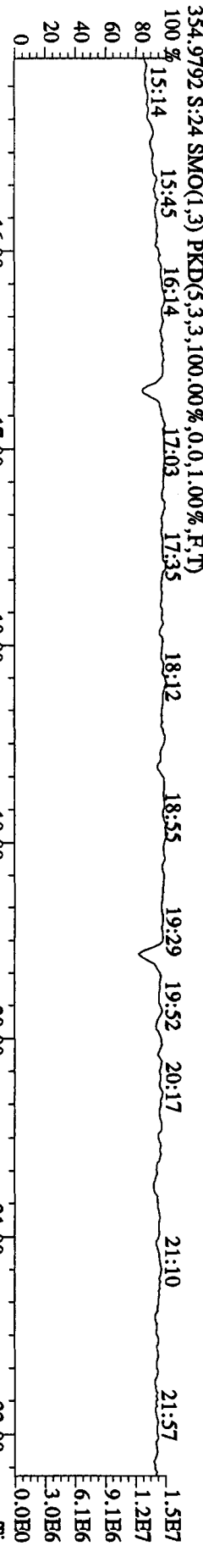
File:21AP10B4D5 #1-190 Acq:22-APR-2010 13:58:58 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#24 Text:LX3LL-1-AA :GOD160000-252B Exp:DIOXINRES8290A  
 441.7428 S:24 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,668.0,1.00%,F,T)



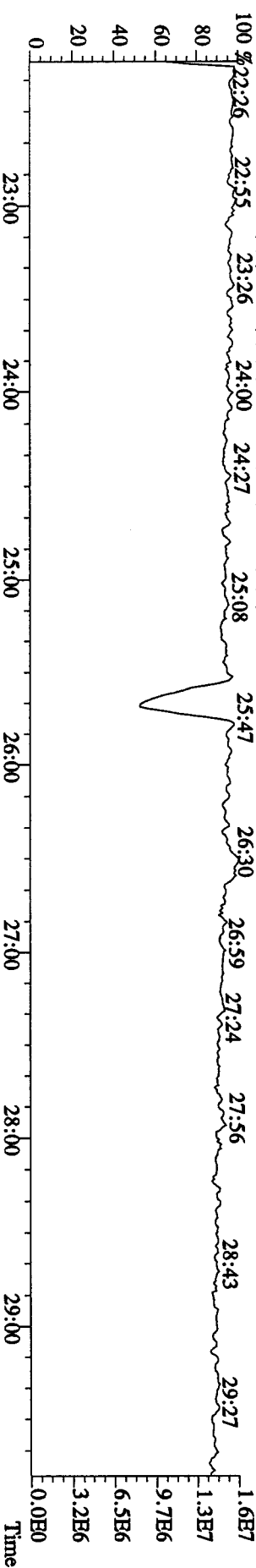
File:21AP10B4D5 #1-190 Acq:22-APR-2010 13:58:58 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#24 Text:LXJLL-1-AA :GOD160000-252B Exp:DIOXINRES8290A  
 457.7377 S:24 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1272.0,1.00%,F,T) 100 %



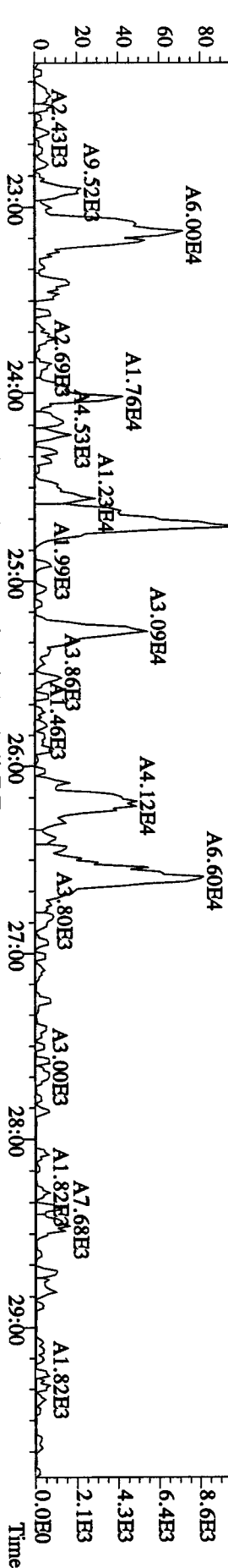
File:21ADP10B4D5 #1-434 Acq:22-APR-2010 13:58:58 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#24 Text:LX3LL-1-AA :G0D160000-252B Exp:DIOXINRES8290A



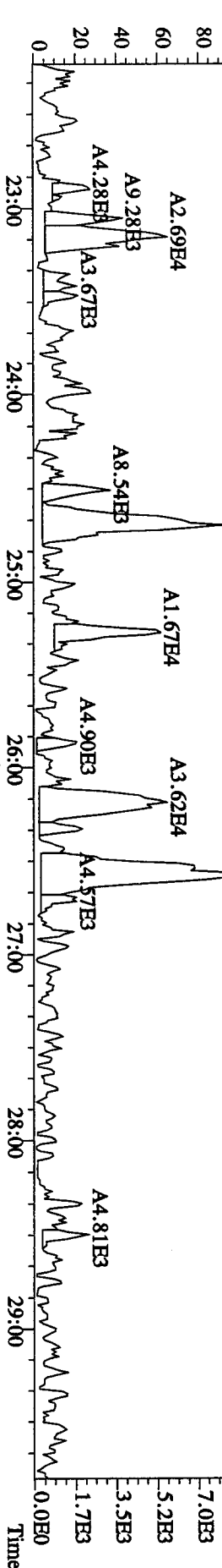
File:21AP10B4D5 #1-604 Acq:22-APR-2010 13:58:58 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#24 Text:LX3LL-1-AA :G0DD160000-252B Exp:DIOXINRES8290A  
 354.9792 S:24 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100 % 22:26 22:55 23:26 24:00 24:27 25:08 25:47 26:30 26:59 27:24 27:56 28:43 29:27



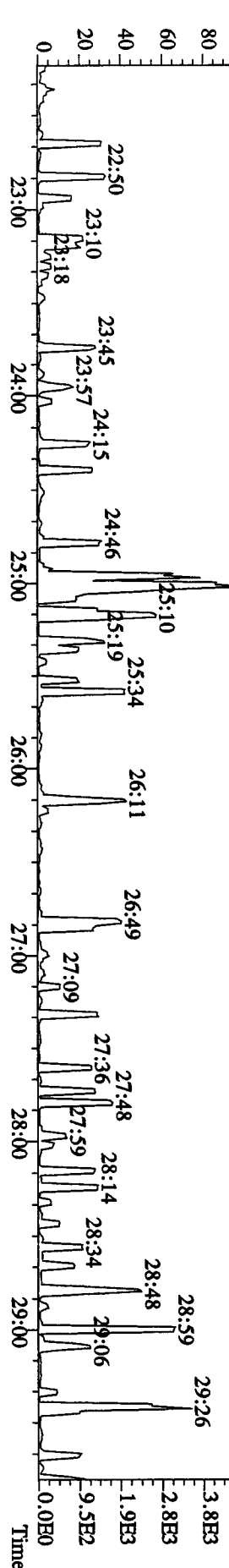
339.8597 S:24 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64.0,1.00%,F,T)  
 100 % 23:00 24:00 25:00 26:00 27:00 28:00 29:00



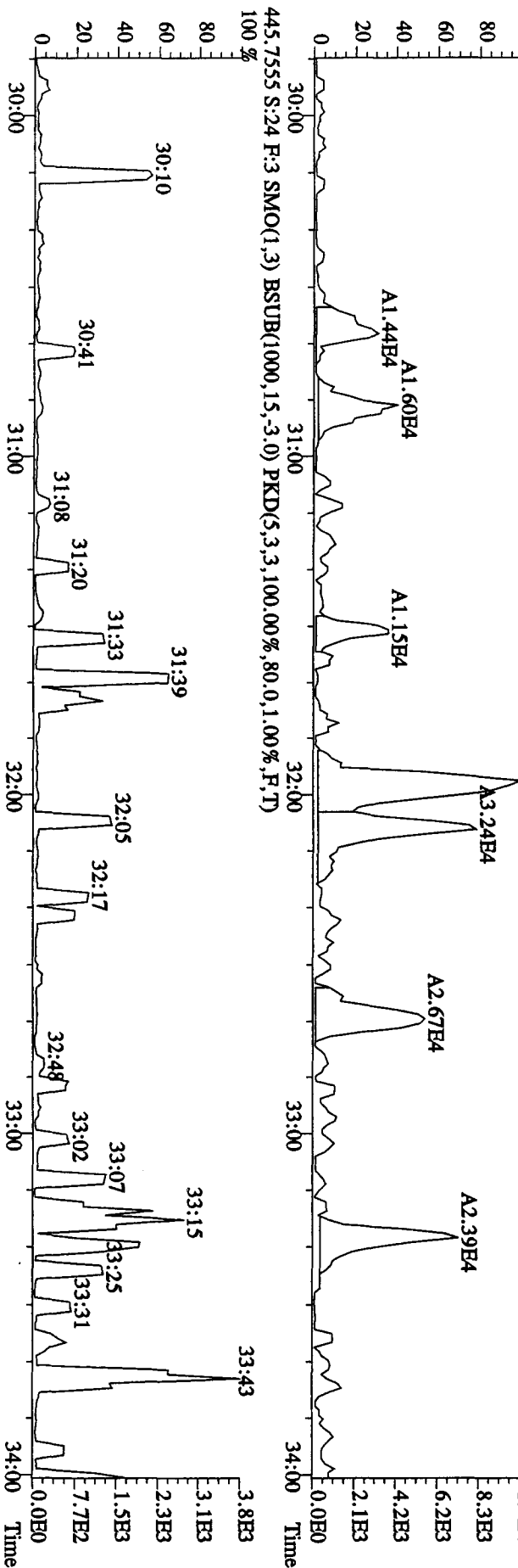
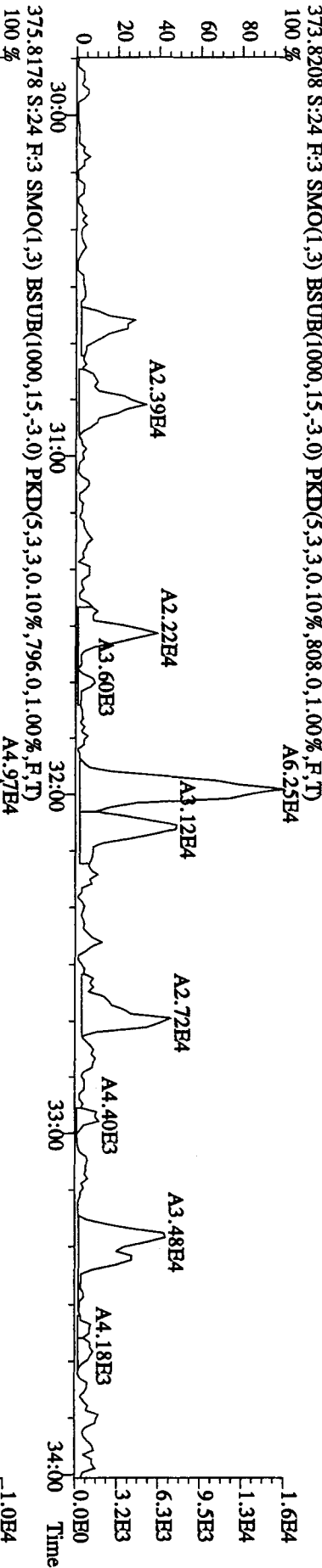
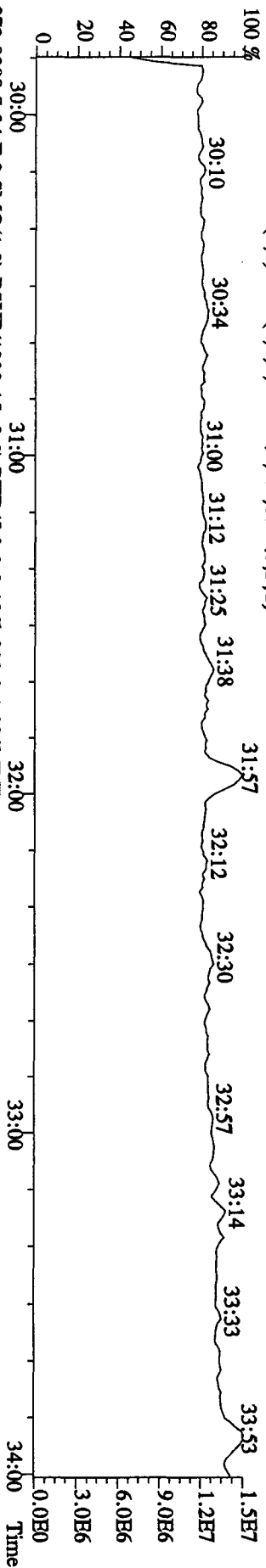
341.8567 S:24 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1260.0,1.00%,F,T)  
 100 % 23:00 24:00 25:00 26:00 27:00 28:00 29:00



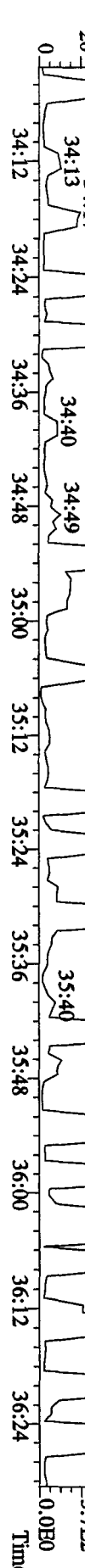
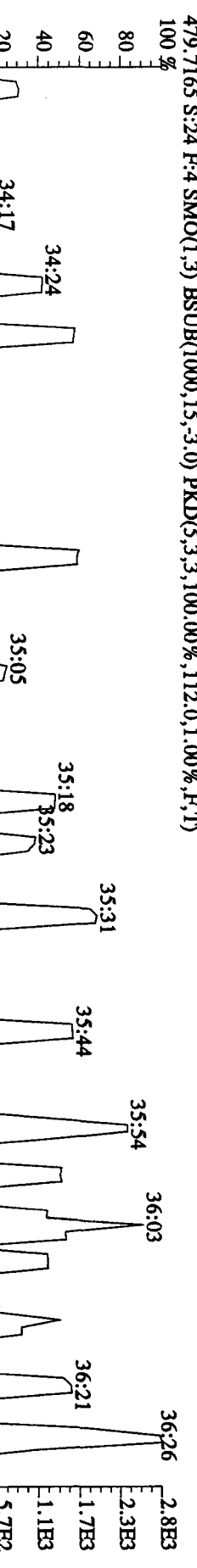
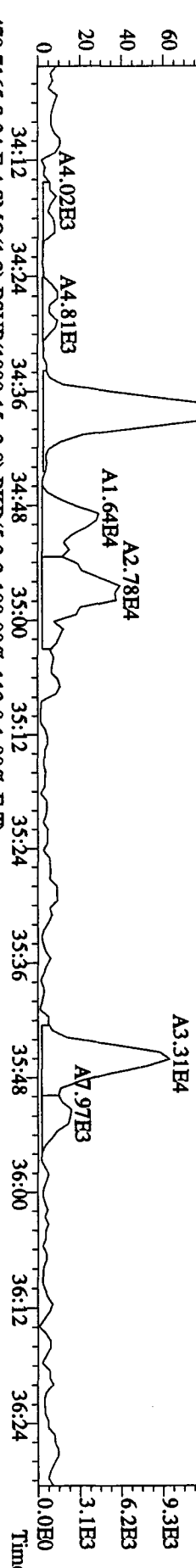
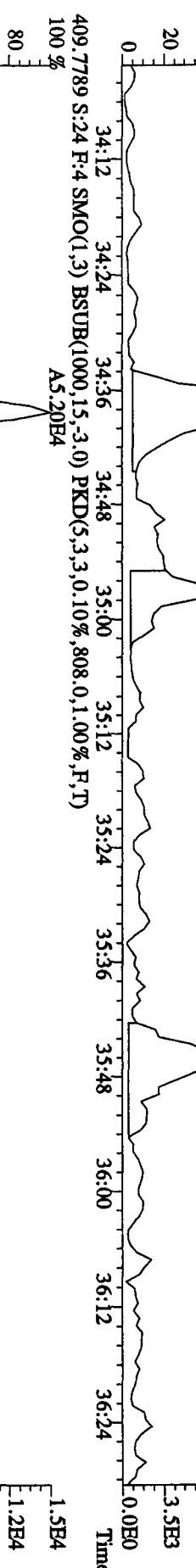
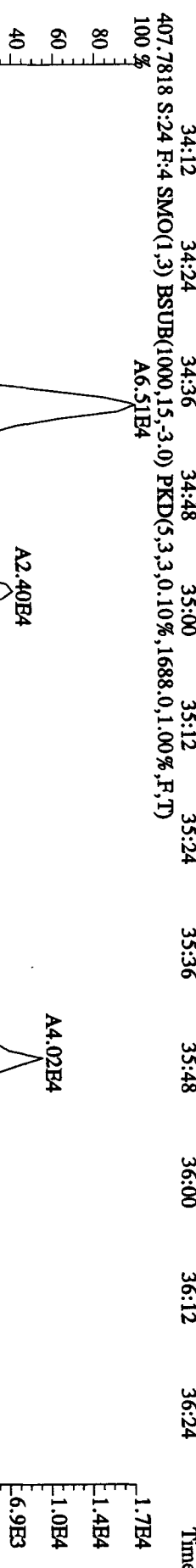
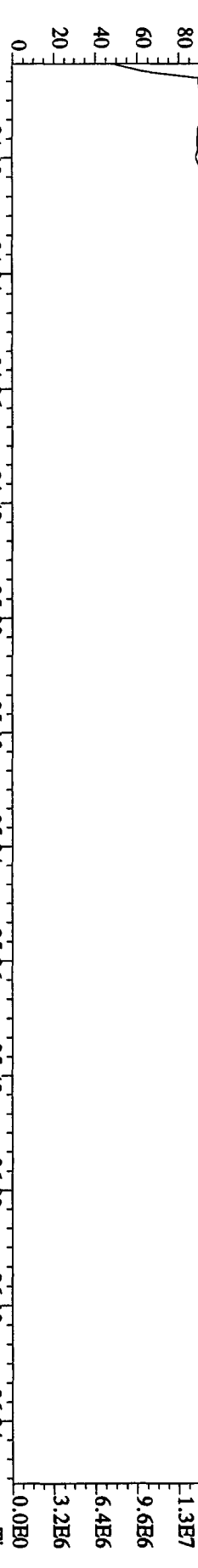
409.7974 S:24 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,44.0,1.00%,F,T)  
 100 % 23:00 24:00 25:00 26:00 27:00 28:00 29:00



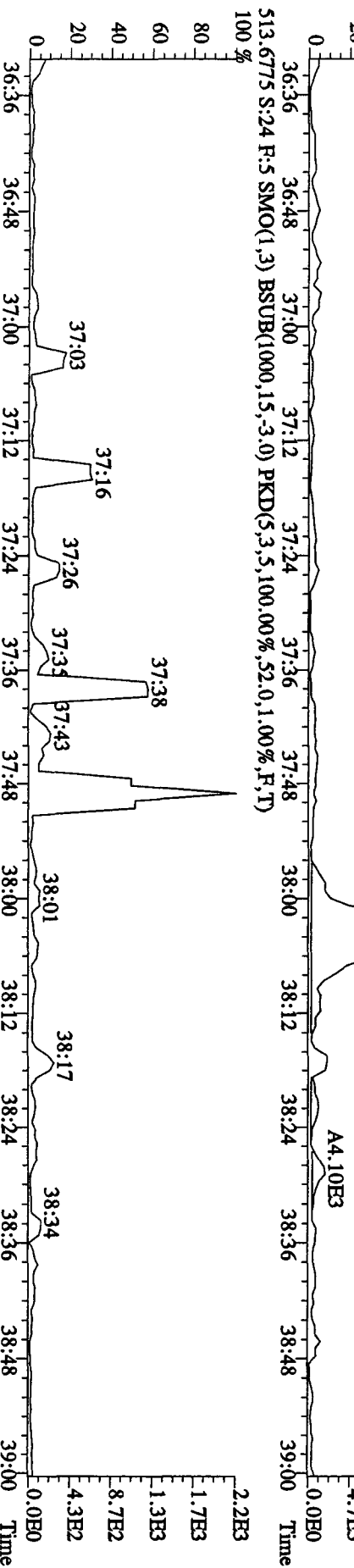
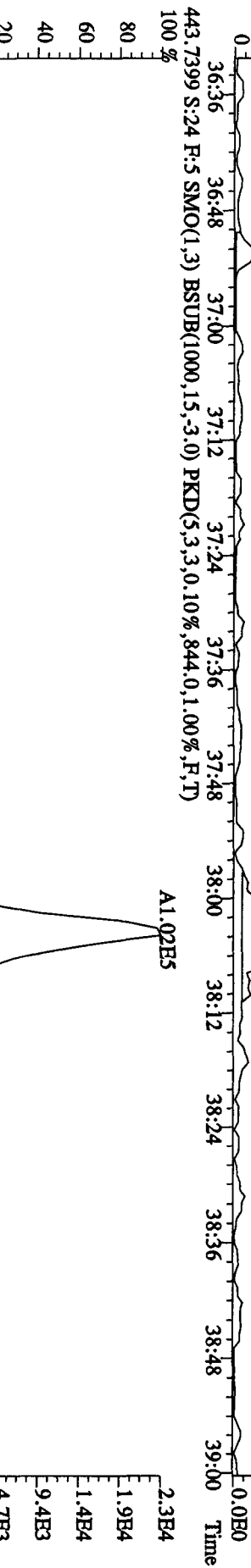
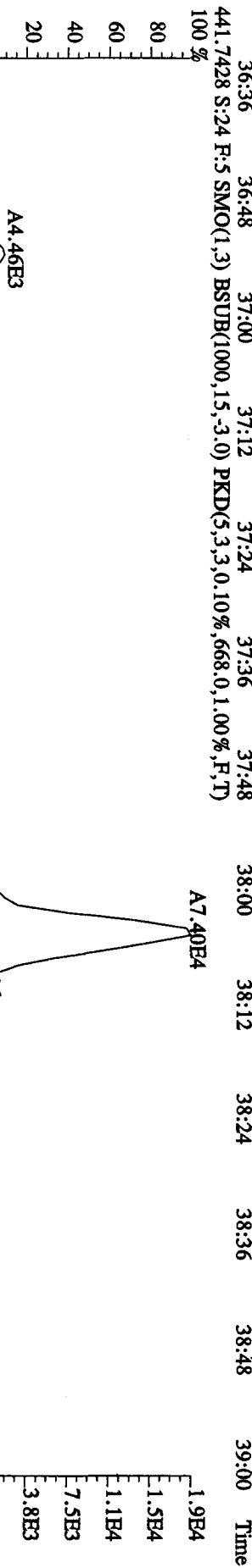
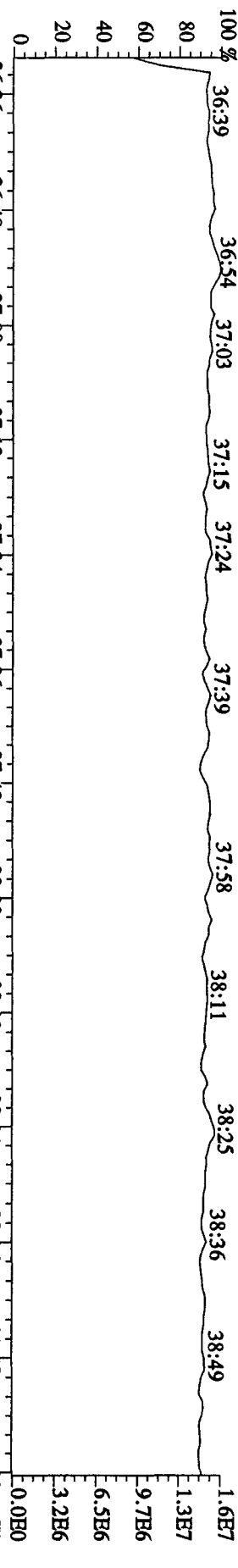
File: 21AP10B4D5 #1-317 Acq: 22-APR-2010 13:58:58 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#24 Text: LKXLL-1-AA :GOD160000-252B Exp: DIOXINRES8290A  
 430.9728 S:24 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:21AP10B4D5 #1-198 Acq:22-APR-2010 13:58:58 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#24 Text:LX3LL-1-AA :GDD160000-252B Exp:DIOXINRES8290A  
 430.9728 S:24 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:21AP10B4D5 #1-190 Acq:22-APR-2010 13:58:58 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#24 Text:LXJLL-1-AA :GOD160000-252B Exp:DIOXINRES8290A





Quantitation Summary

TestAmerica West Sacramento

LOFH2IAC LCS

8/25 04/23/10

8/26 04/23/10

Run text: LX3LL-1-AC Sample text: LX3LL-1-AC :GOD160000-252C
Run #26 Filename: 21AP10B4D5 S: 25 I: 1 Results: 21AP10B4D58290A
Acquired: 22-APR-10 14:43:01 Processed: 22-APR-10 16:50:06
Run: 21AP10B4D5 Analyte: 8290AHRS Cal: 8290A0412104D5
Factor 1:1600.000 Factor 2:20.000 Sample size: 1.00 L

Table with columns: Name, Resp, RA, RT, RRF, Conc, EDL, Rec, M. Contains multiple rows of chemical analysis data including TCDD, TCDF, PeCDF, HxCDF, HxCDD, HpCDF, and HpCDD.

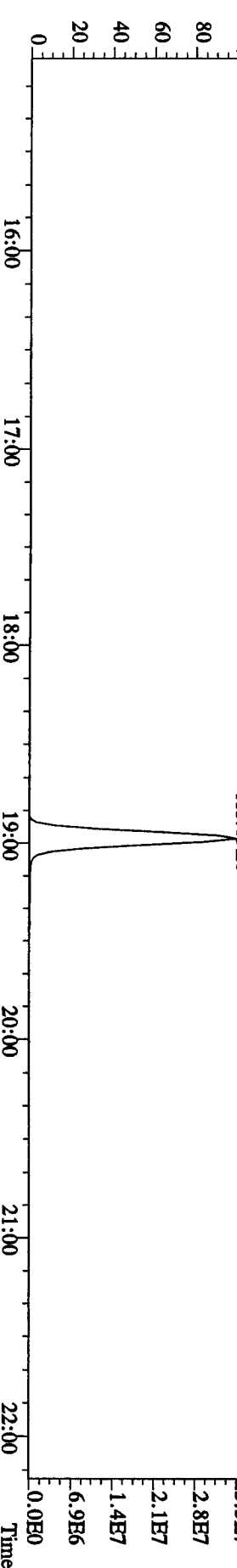
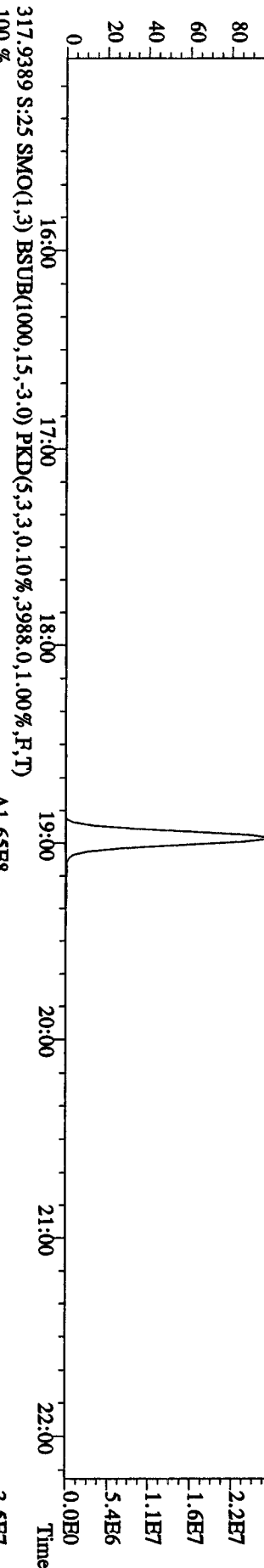
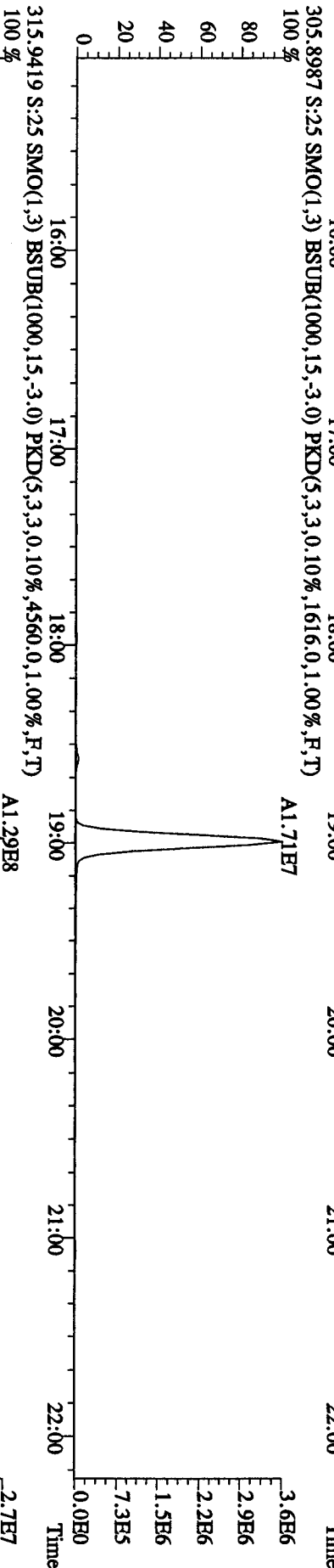
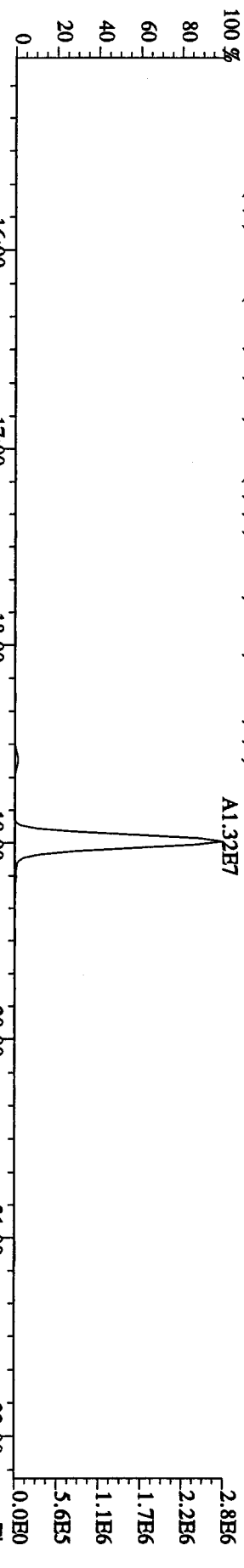
OCDD 117056800 0.89 y 37:57 1.17

2068.324

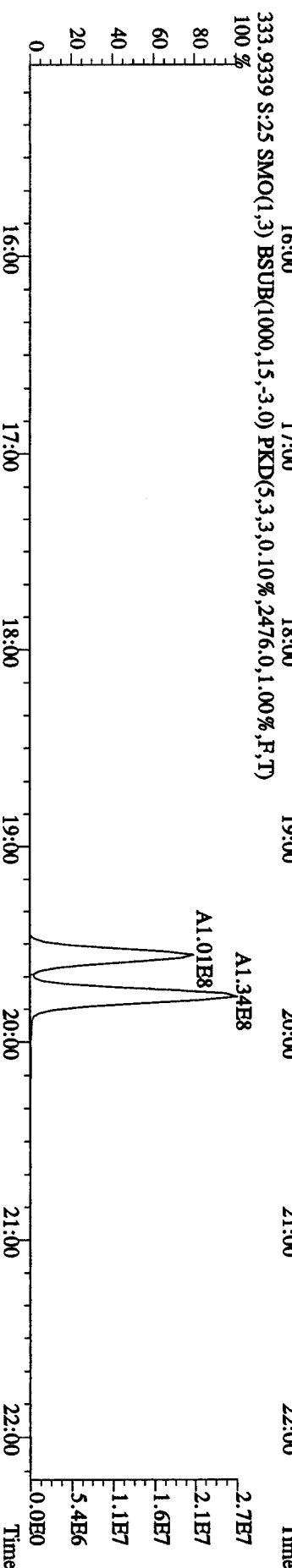
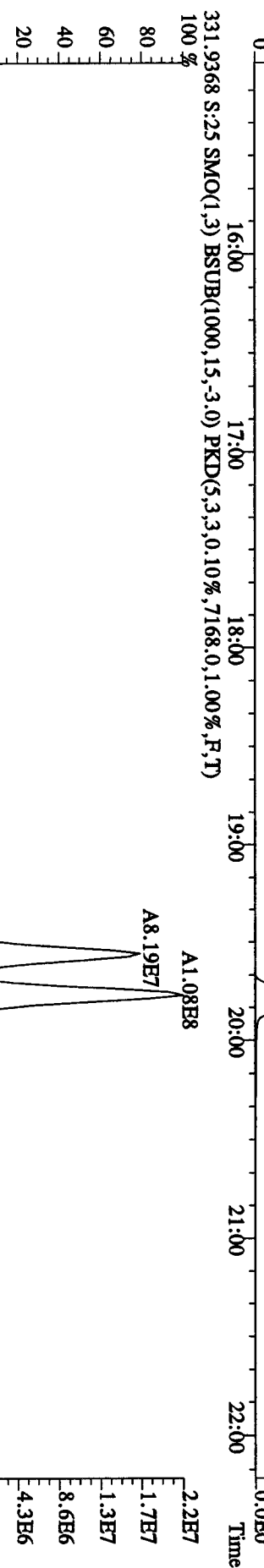
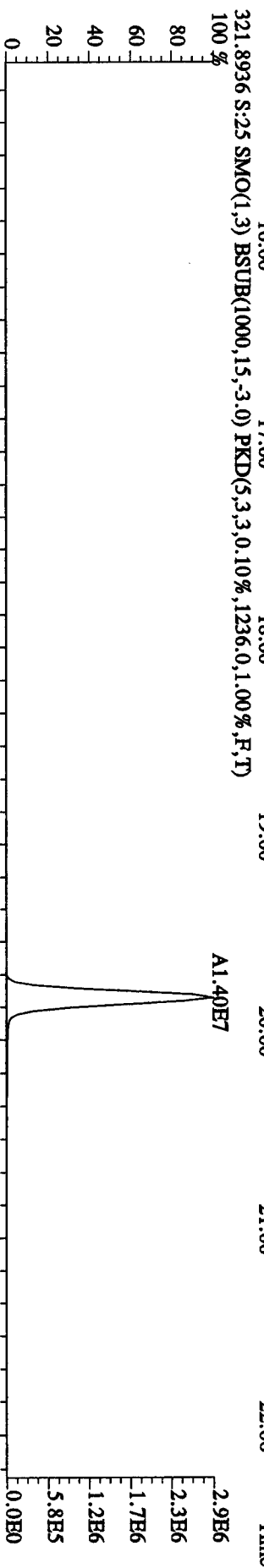
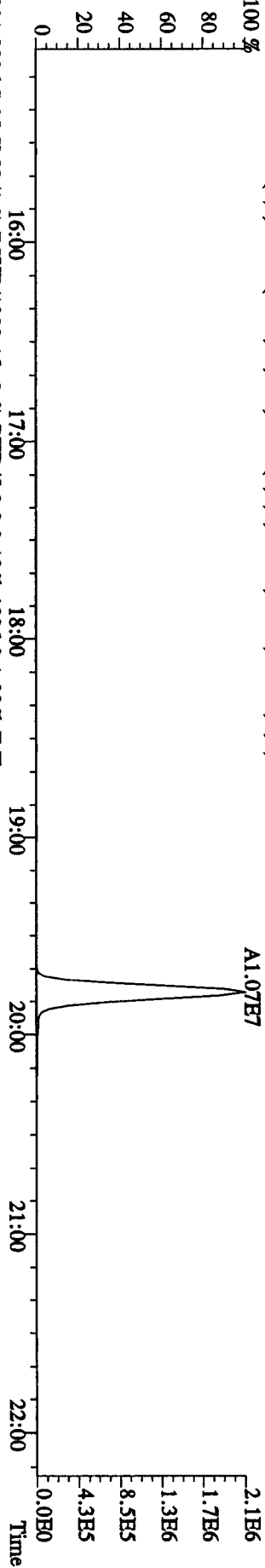
0.358

- n

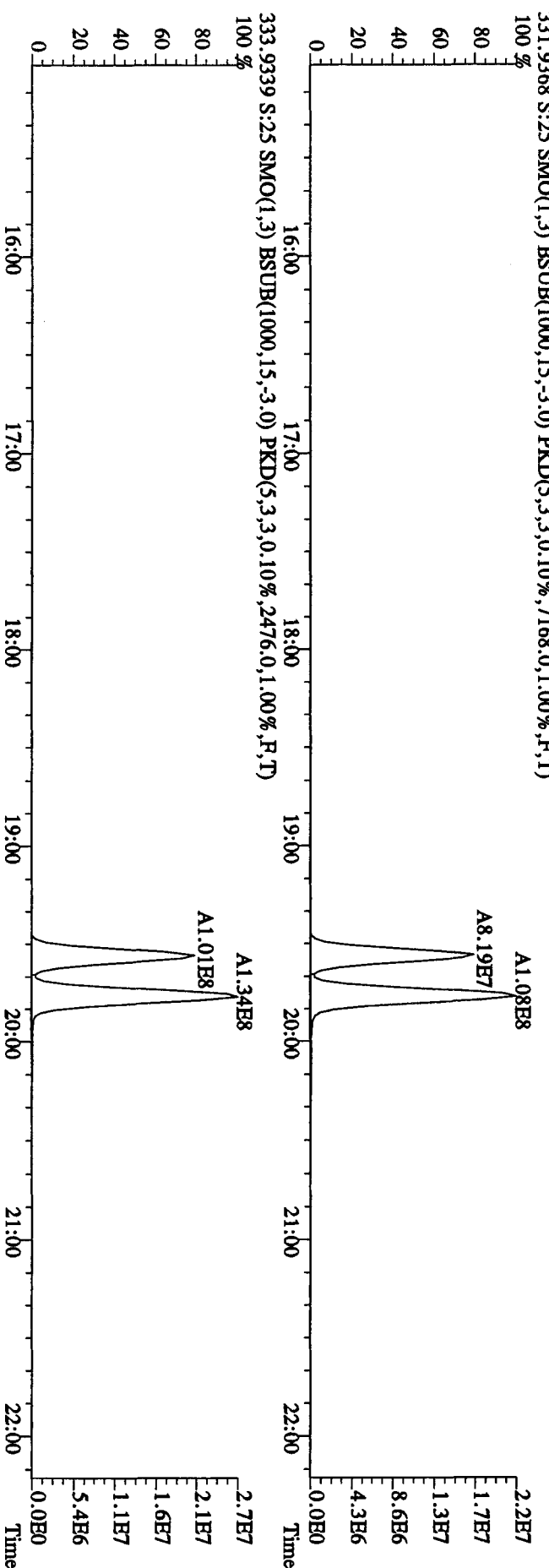
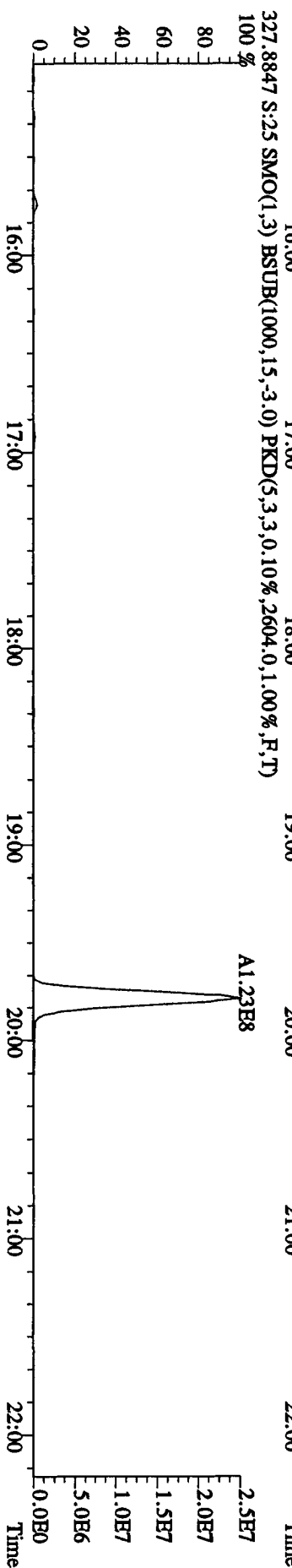
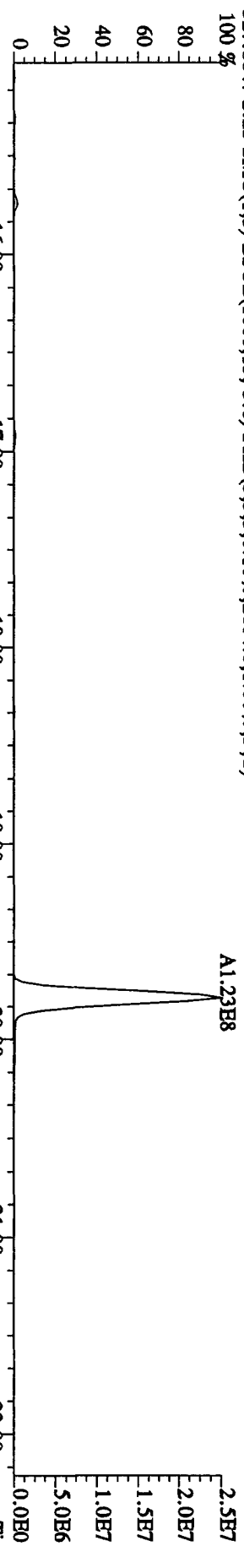
File:21ADP10B4D5 #1-434 Acq:22-APR-2010 14:43:01 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#25 Text:LX3LL-1-AC :GDD160000-252C Exp:DIOXINRES8290A  
 303.9016 S:25 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,704.0,1.00%,F,T)  
 100 %



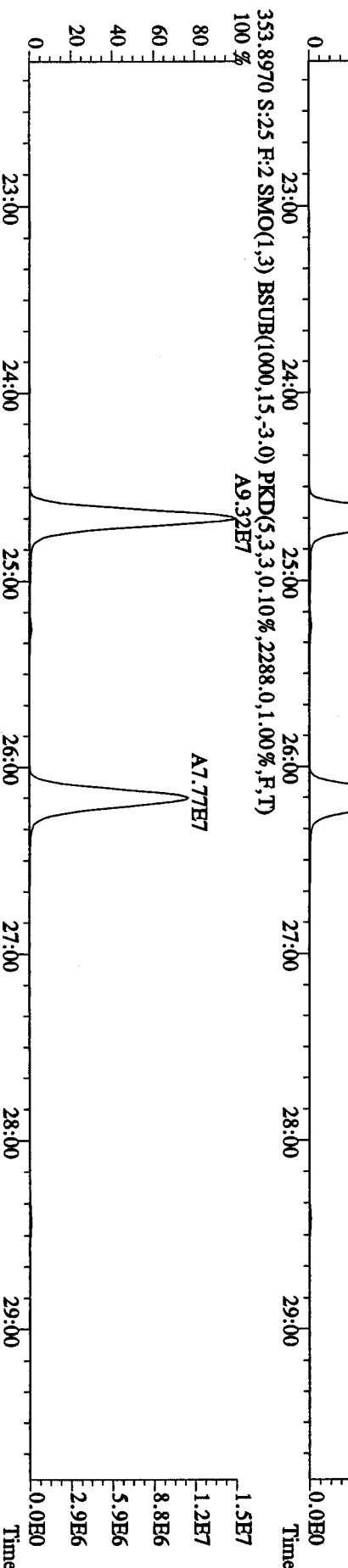
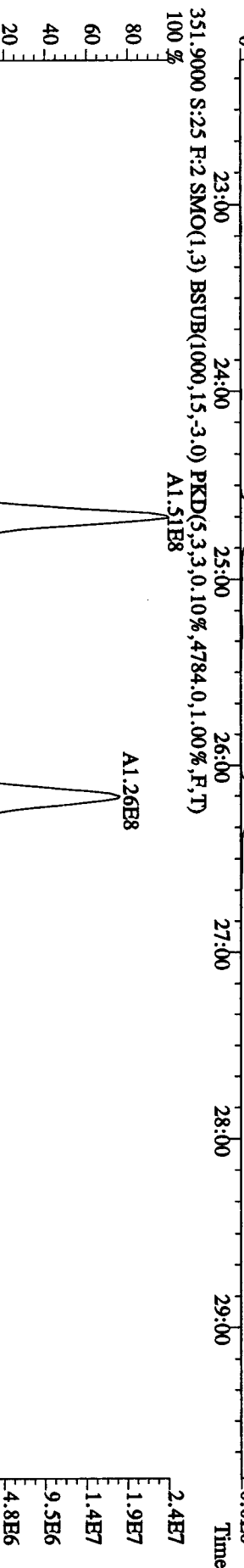
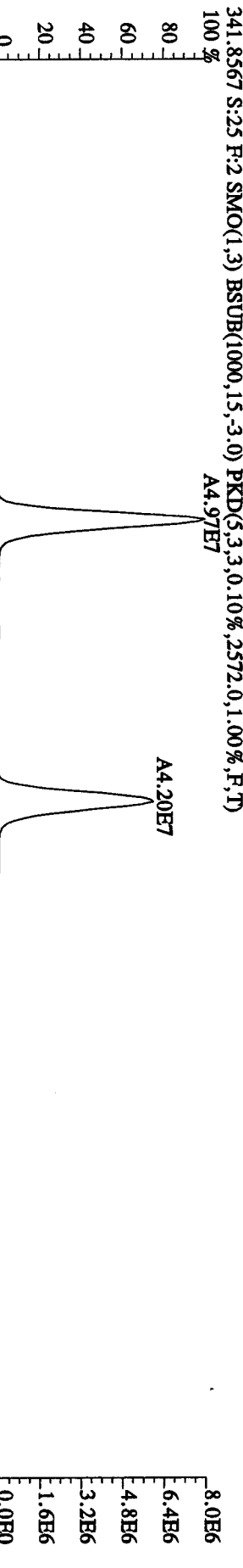
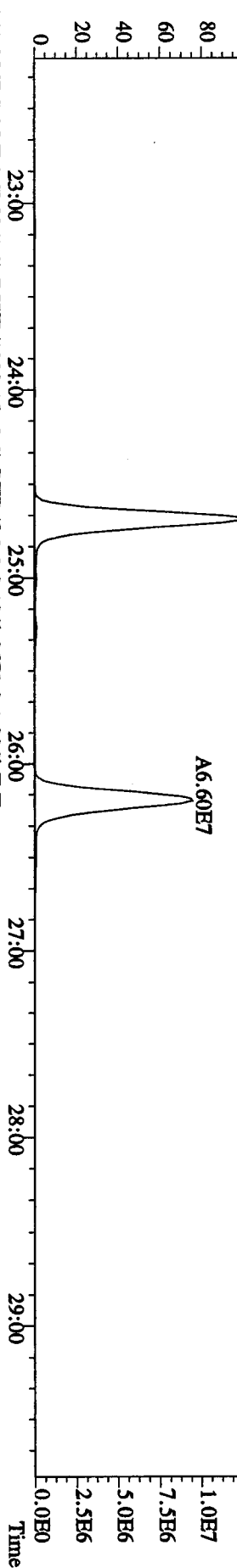
File:21AP10B4D5 #1-434 Acq:22-APR-2010 14:43:01 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#25 Text:LX31L-1-AC :GDD160000-252C Exp:DIOXINRES8290A  
 319.8965 S:25 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,800,0,1.00%,F,T)  
 100 %



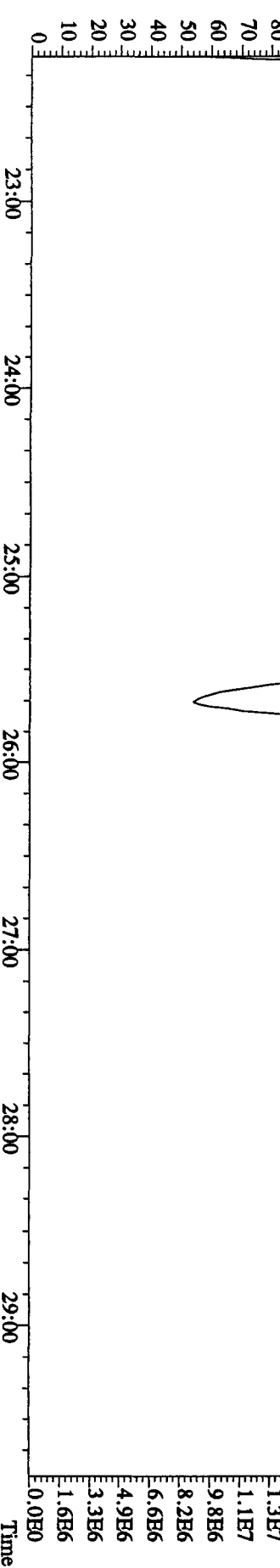
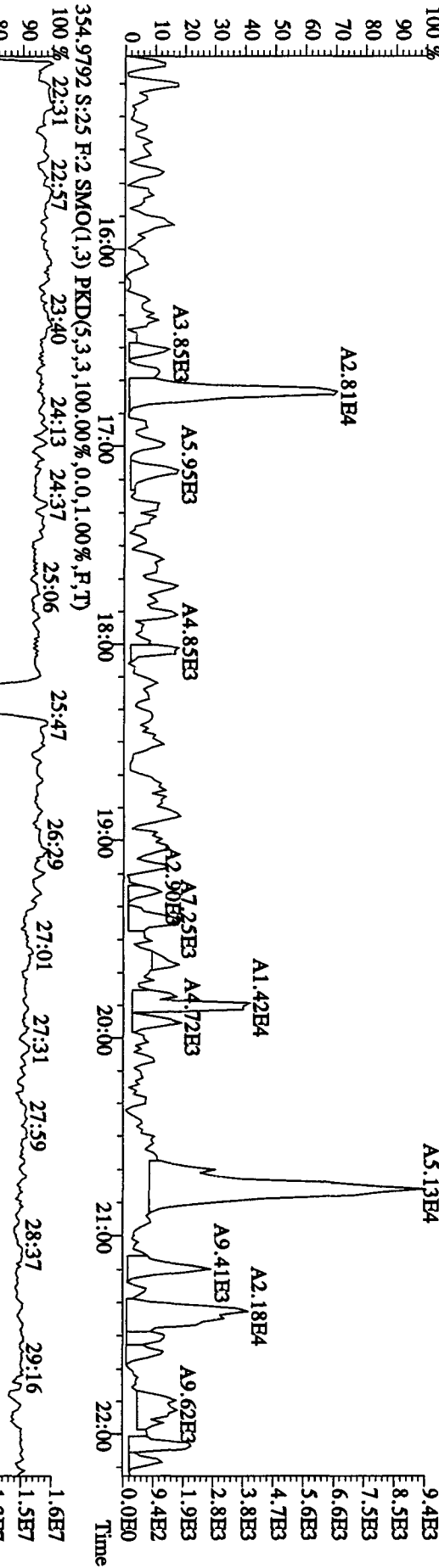
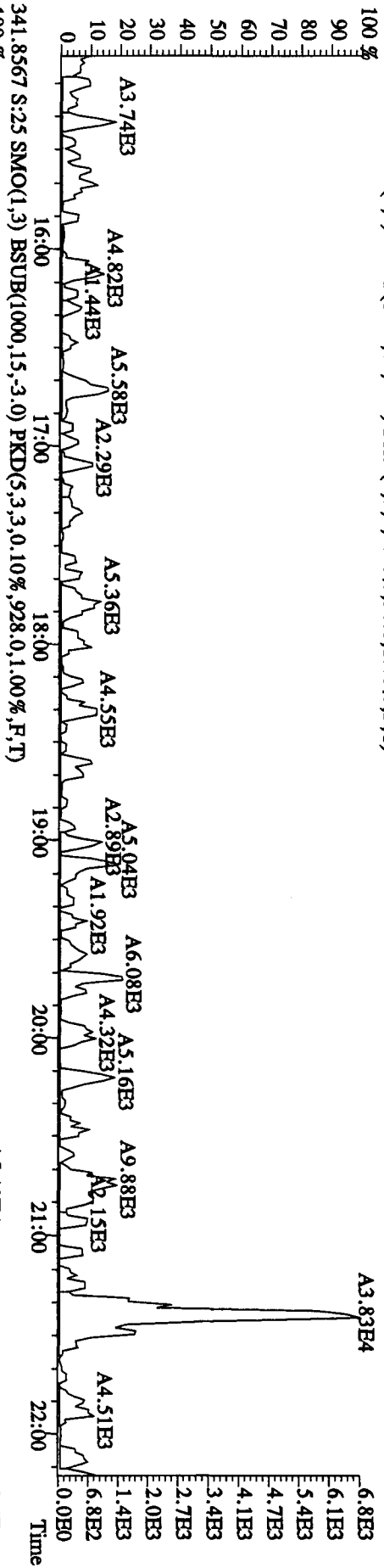
File:21AP10B4D5 #1-434 Acq:22-APR-2010 14:43:01 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#25 Text:LX3LL-1-AC :G0D160000-252C Exp:DIOXINRES8290A  
 327.8847 S:25 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2604,0,1,00%,F,T)



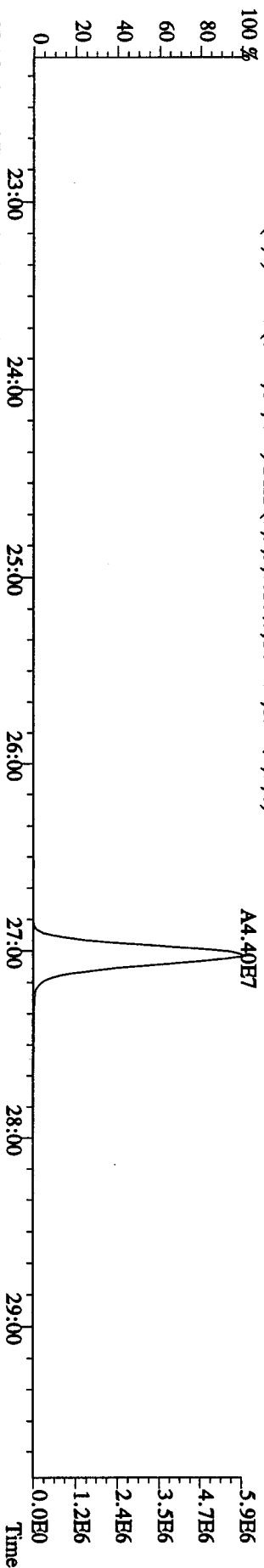
File:21AP10B4D5 #1-604 Acq:22-APR-2010 14:43:01 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#25 Text:LX3LL-1-AC :GDD160000-252C Exp:DIOXINRES8290A  
 339.8597 S:25 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1764.0,1.00%,F,T)  
 100 % A7.92E7



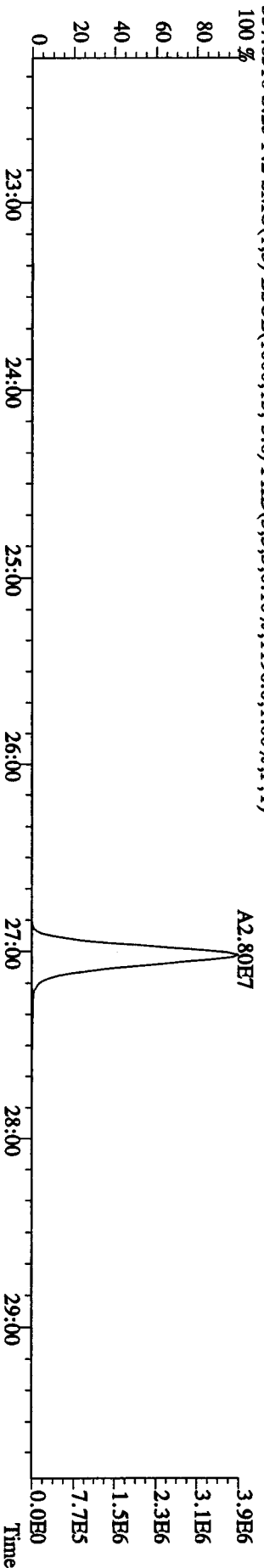
File: 21AP10B4D5 #1-434 Acq: 22-APR-2010 14:43:01 GC: EI+ Voltage: SIR Autospec-UltimaE  
 Sample#25 Text: LK3LL-1-AC : GOD160000-252C Exp: DIOXINRES8290A  
 339.8597 S: 25 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,56,0,1,00%,F,T)



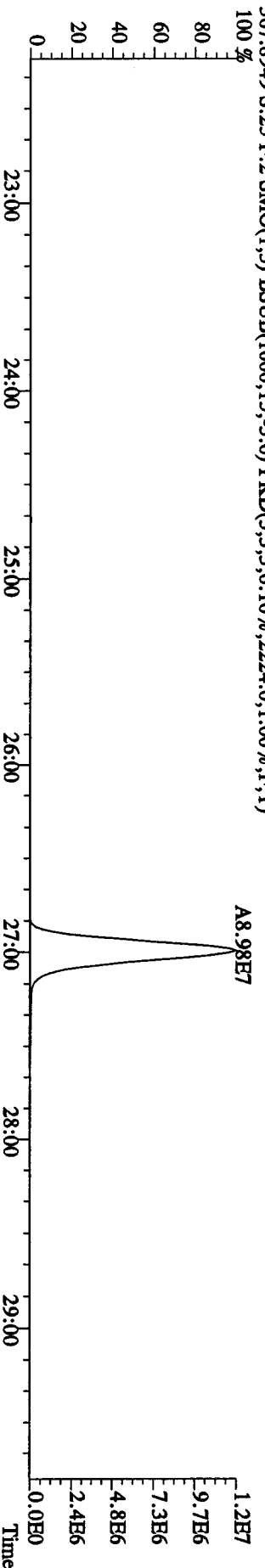
File:21AP10B4D5 #1-604 Acq:22-APR-2010 14:43:01 GC EI+ Voltage SIR Autospec-UtimaE  
 Sample#25 Text:LX3LL-1-AC :G0D160000-252C Exp:DIOXINRES8290A  
 355.8546 S:25 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1488.0,1.00%,F,T)  
 100 %



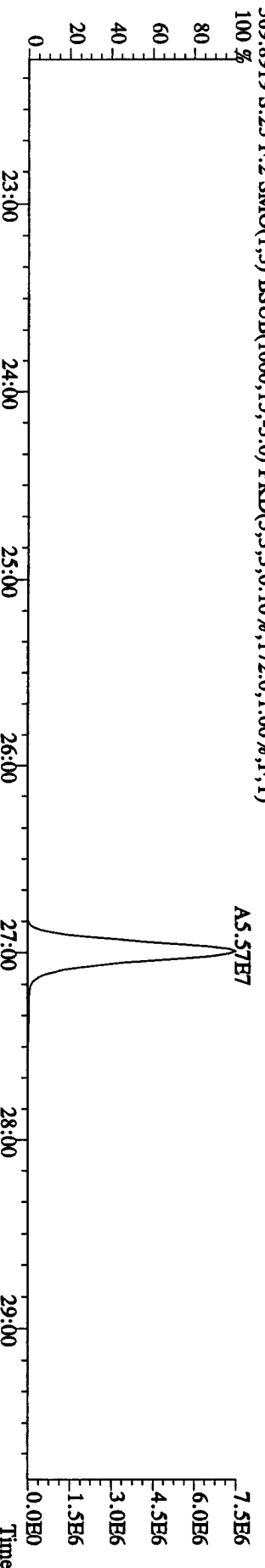
357.8516 S:25 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1196.0,1.00%,F,T)  
 100 %



367.8949 S:25 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2224.0,1.00%,F,T)  
 100 %

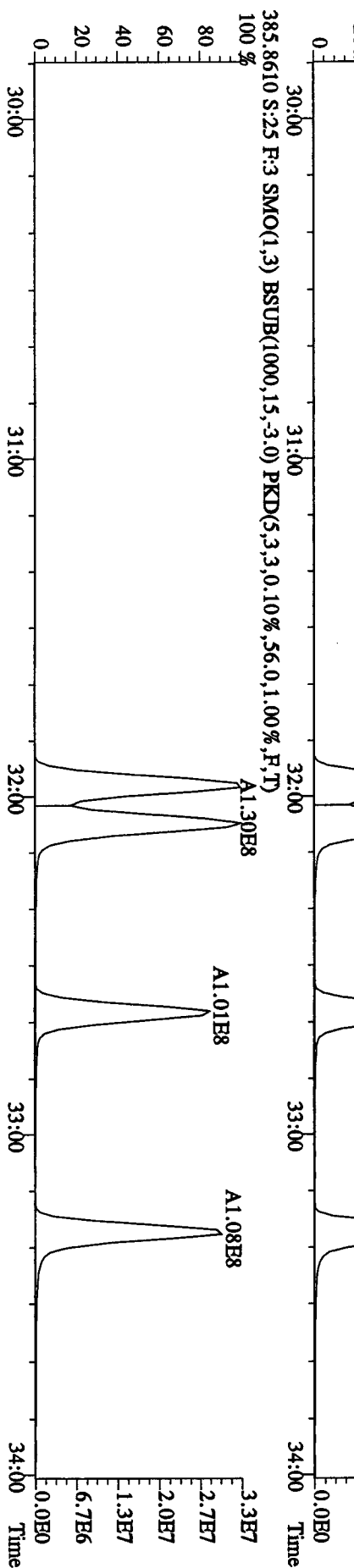
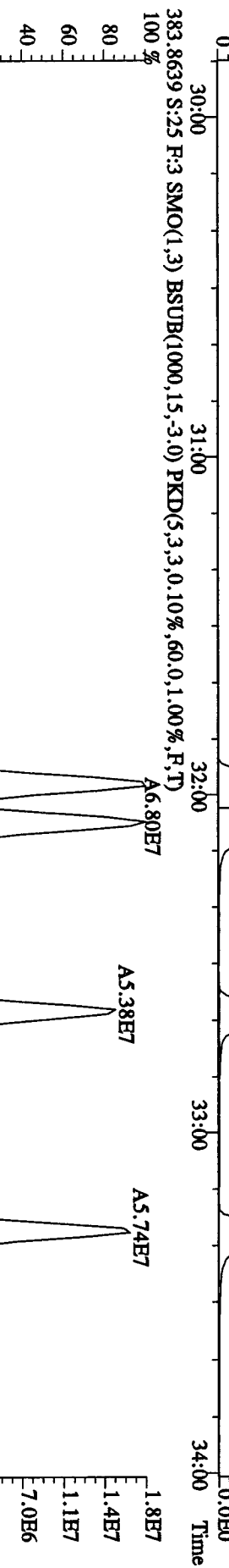
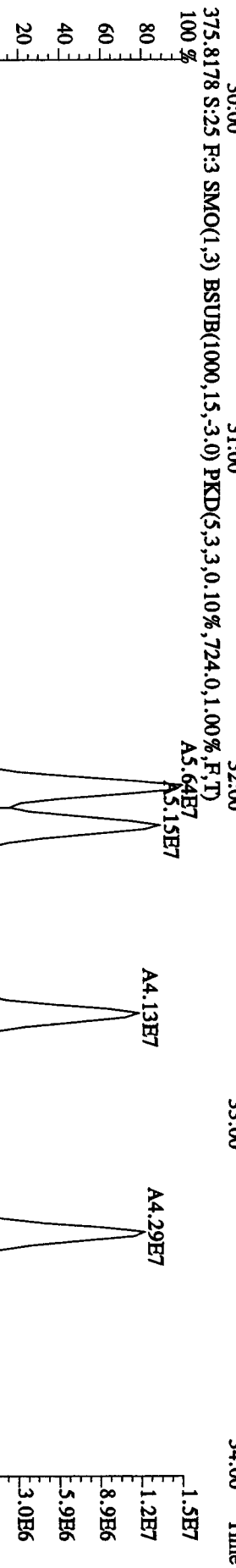
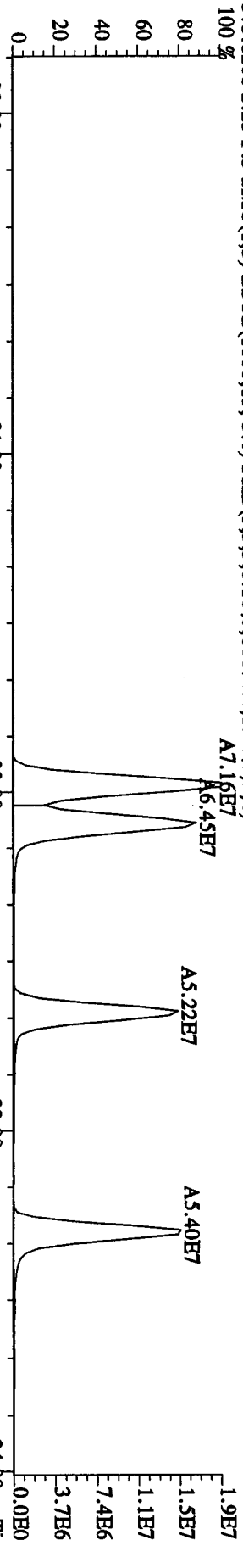


369.8919 S:25 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,172.0,1.00%,F,T)  
 100 %

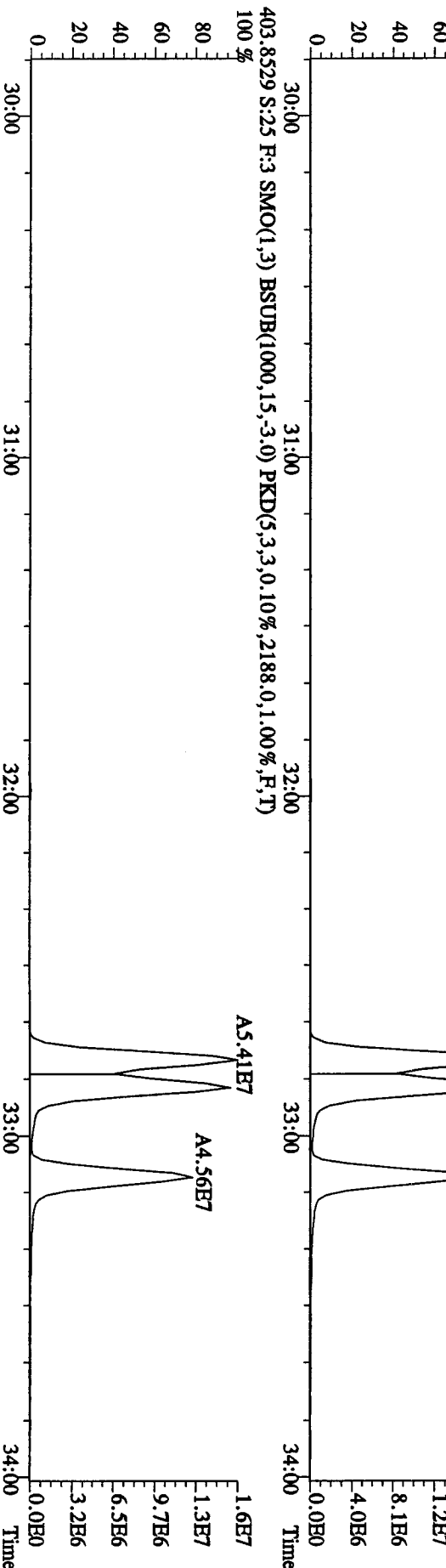
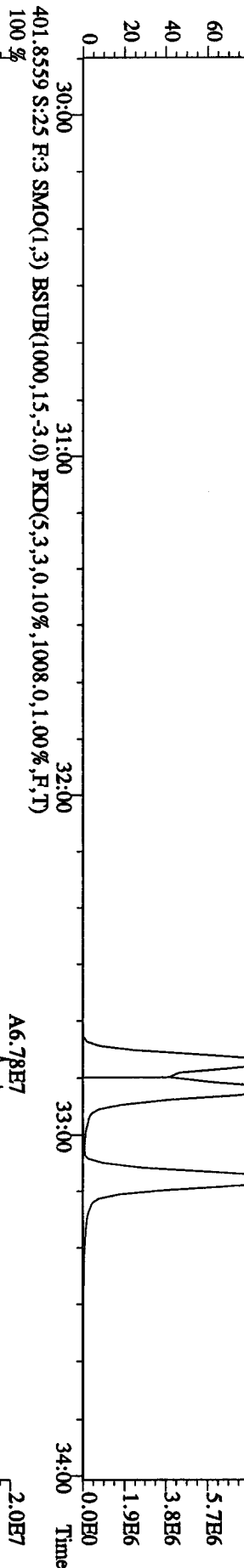
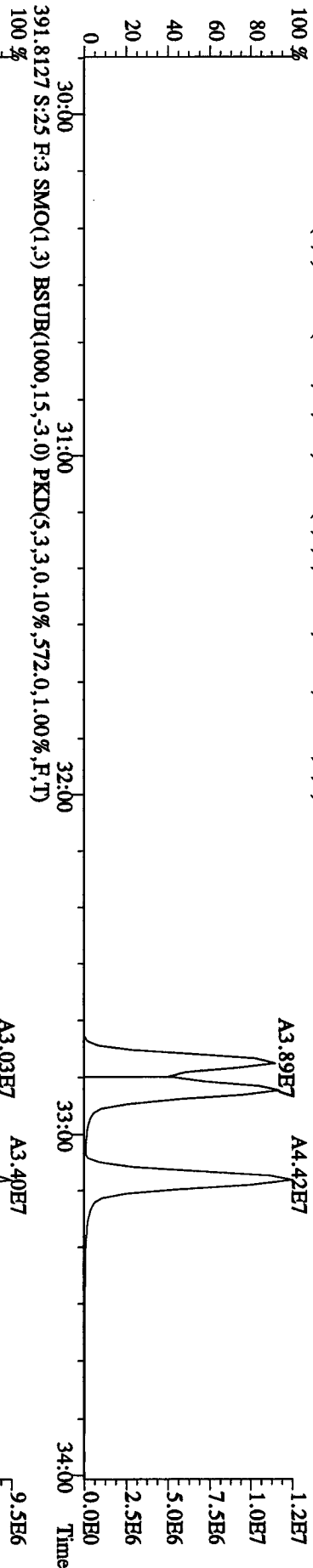




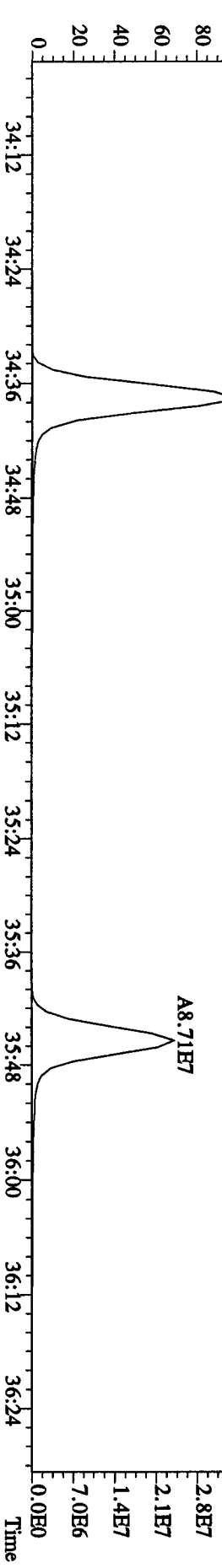
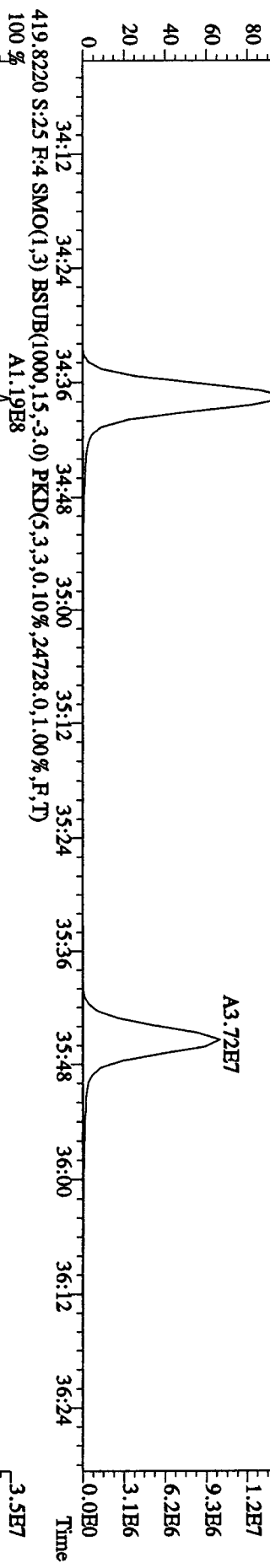
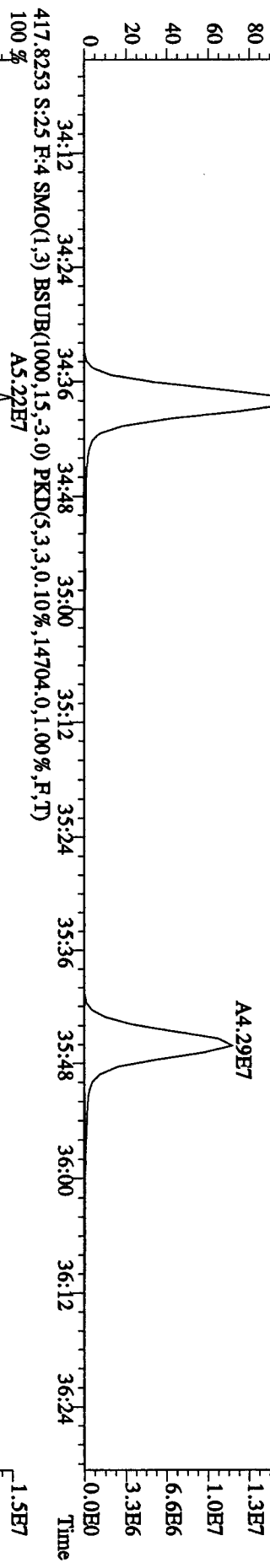
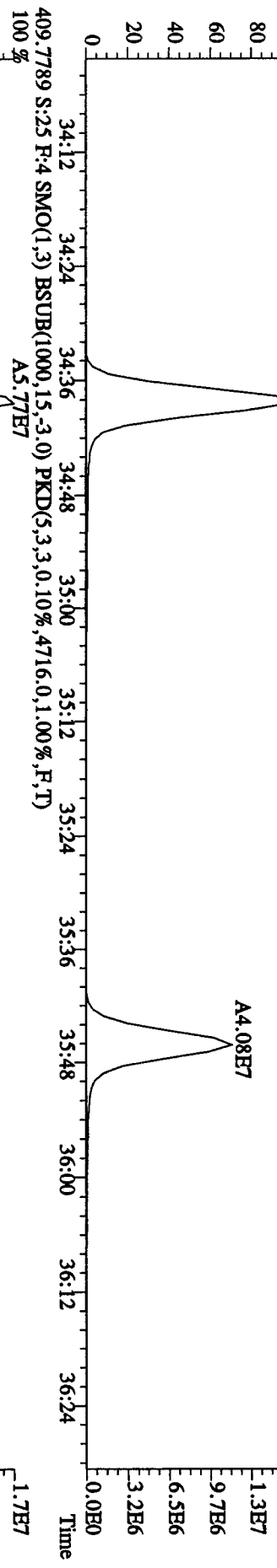
File:21AP10B4D5 #1-317 Acq:22-APR-2010 14:43:01 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#25 Text:LX31L-1-AC :G0D160000-252C Exp:DIOXINRES8290A  
 373.8208 S:25 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18676.0,1.00%,F,T)  
 100 %

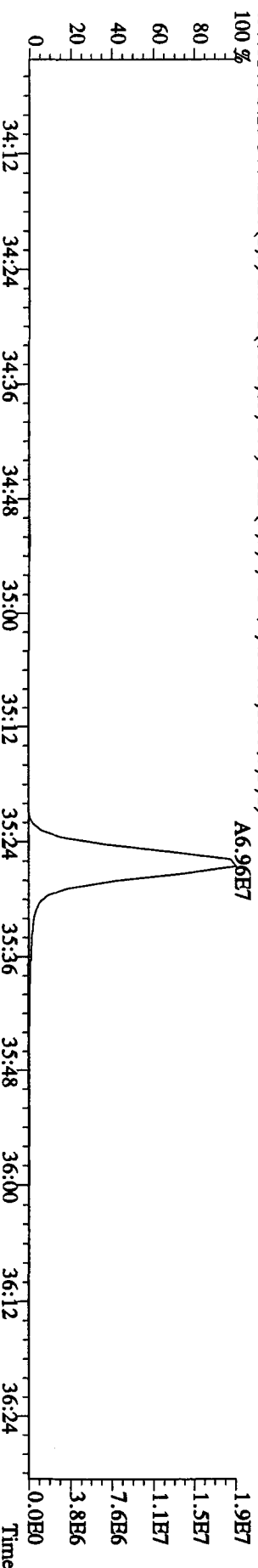
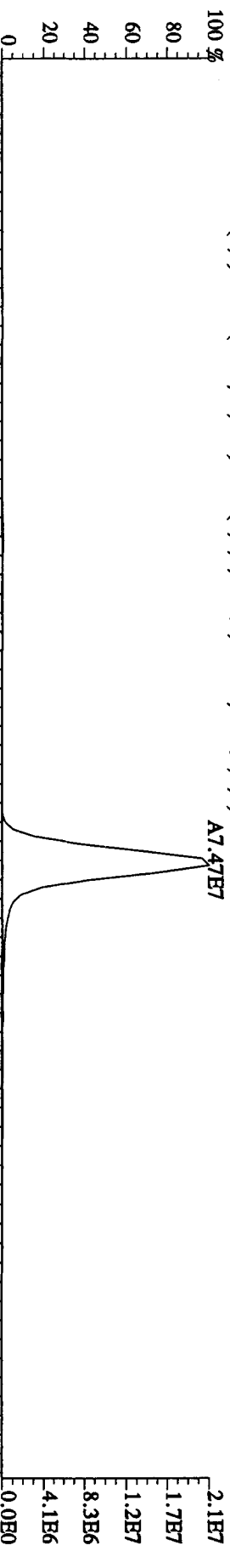
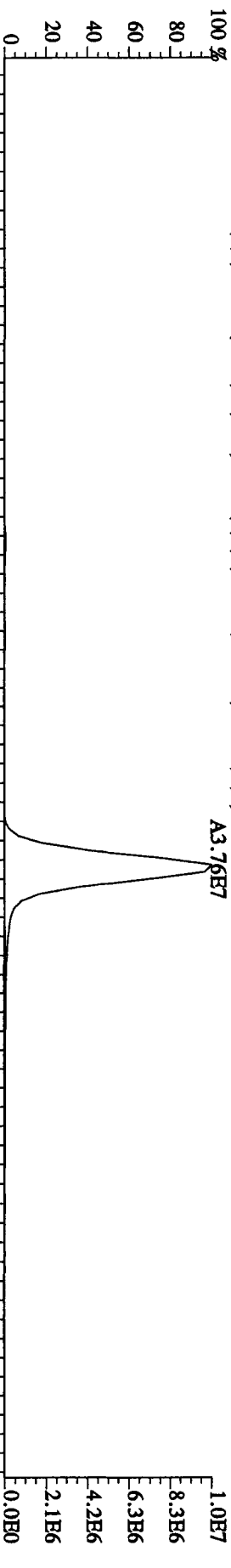
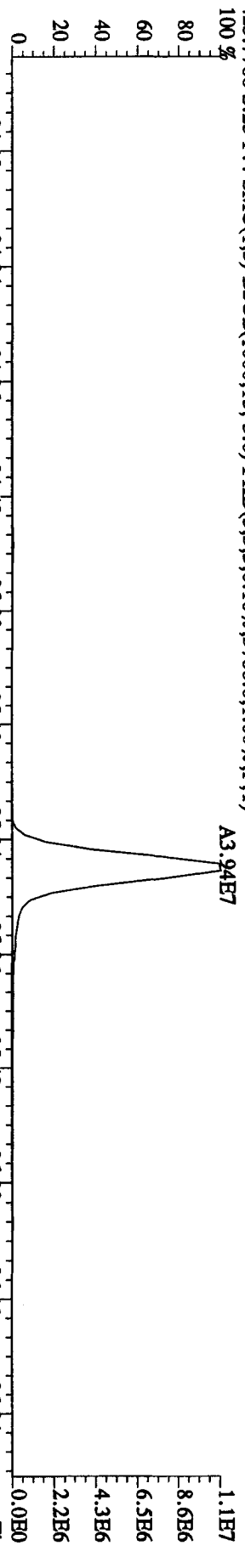


File:21AP10B4D5 #1-317 Acq:22-APR-2010 14:43:01 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#25 Text:LX3LL-1-AC :G0D160000-252C Exp:DIOXINRES8290A  
 389.8157 S:25 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,540.0,1.00%,F,T)

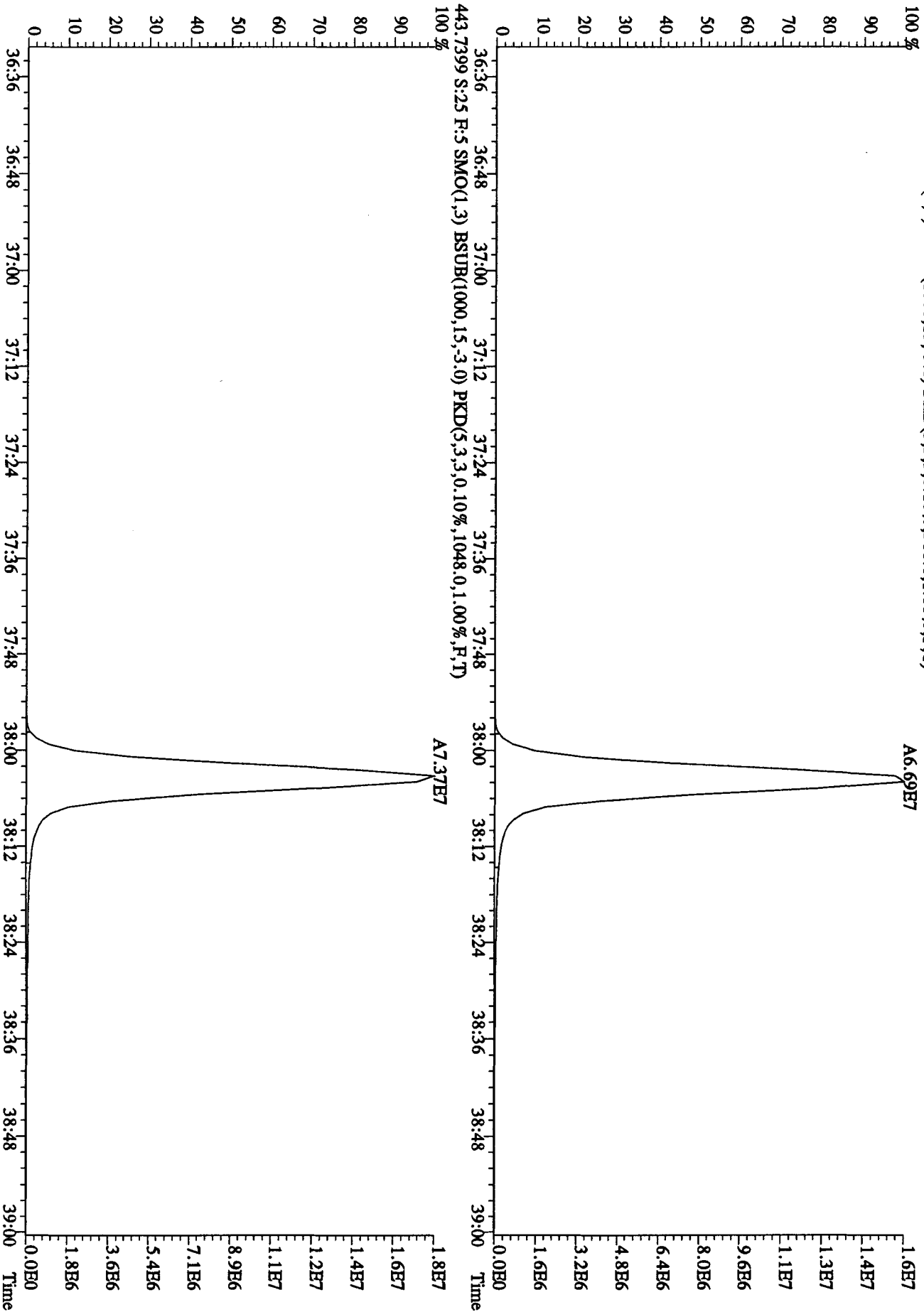


File:21AP10B4D5 #1-198 Acq:22-APR-2010 14:43:01 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#25 Text:LX3LL-1-AC :GOD160000-252C Exp:DIOXINRES8290A  
 407.7818 S:25 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,10656.0,1.00%,F,T)  
 100 %

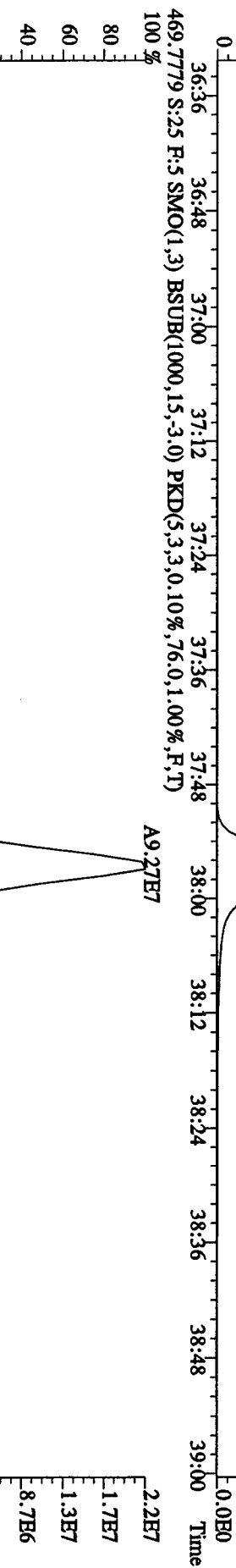
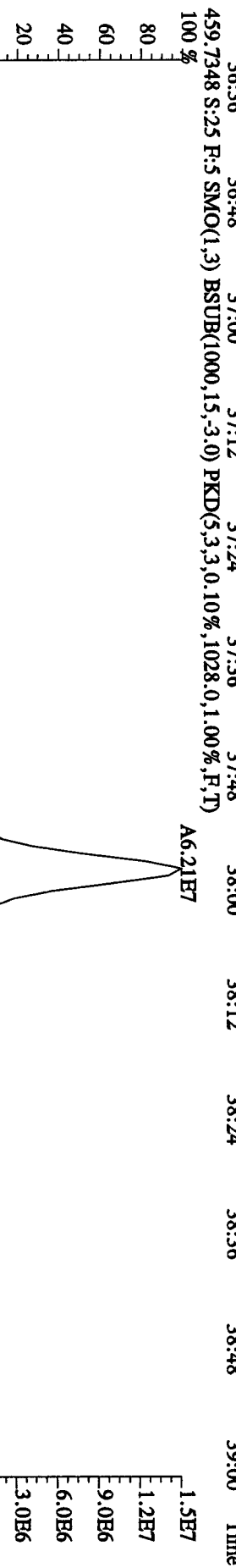
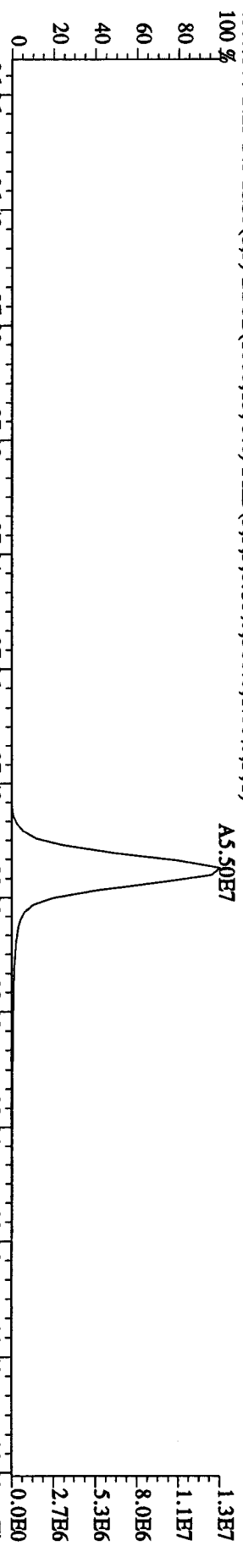




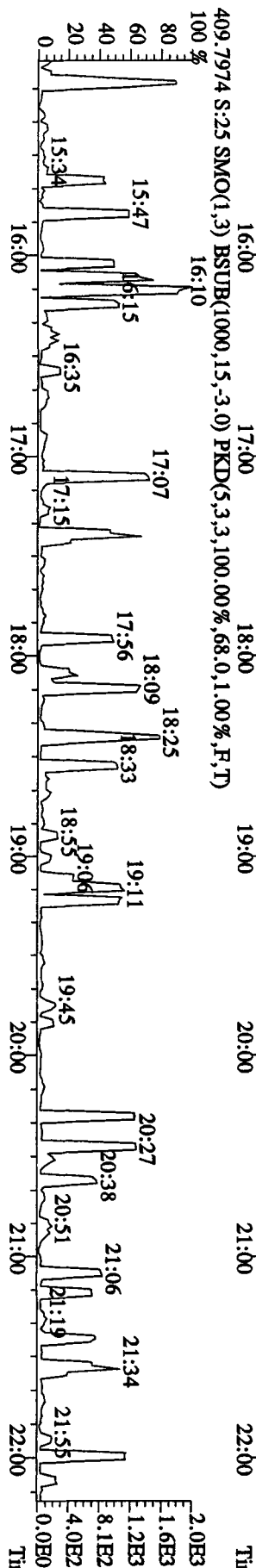
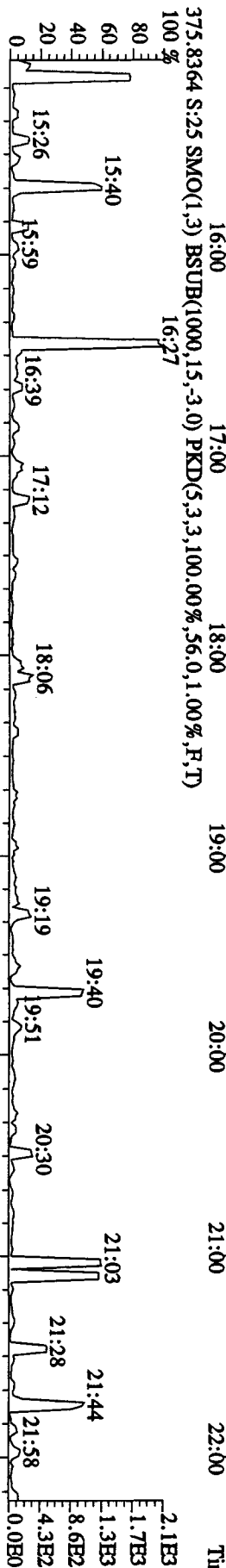
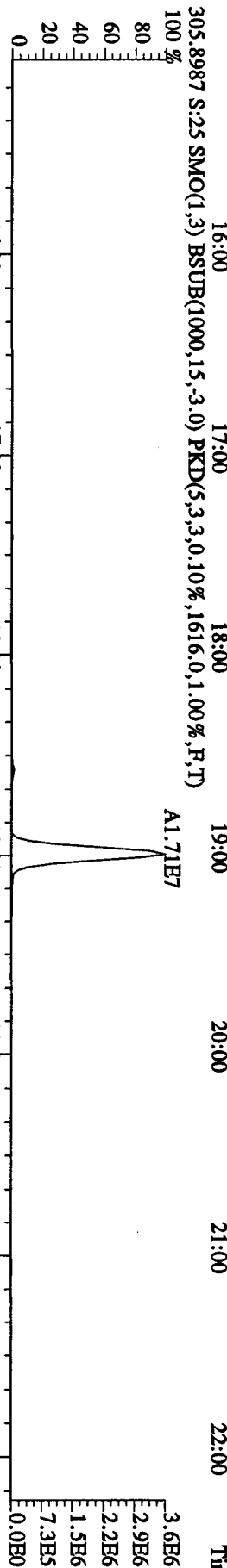
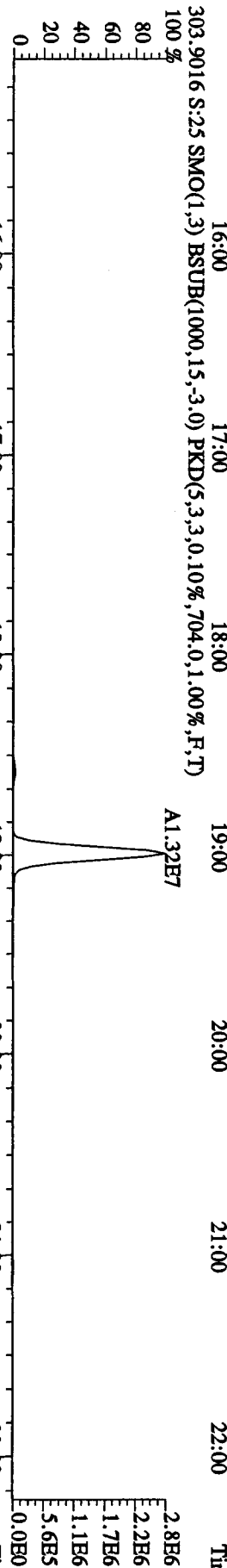
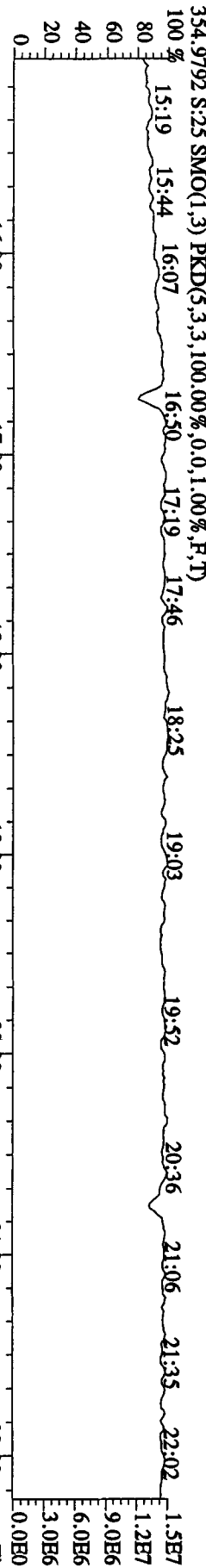
File:21AP10B4D5 #1-190 Acq:22-APR-2010 14:43:01 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#25 Text:LX3LL-1-AC :G0D160000-252C Exp:DIOXINRES8290A  
 441.7428 S:25 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,388,0.1,00%,F,T) 100 %



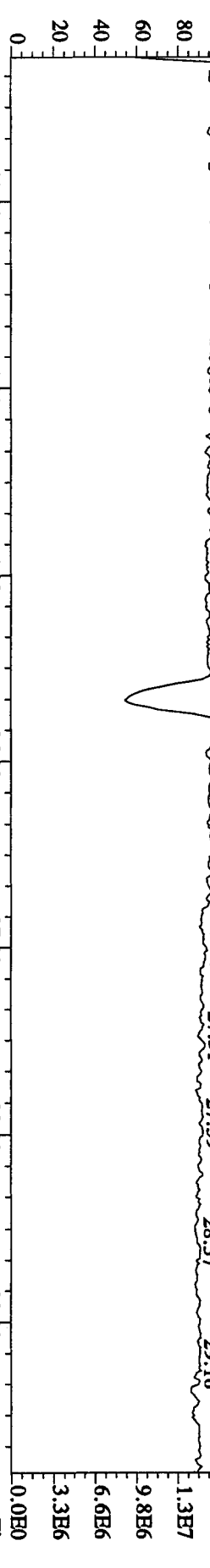
File:21AP10B4D5 #1-190 Acq:22-APR-2010 14:43:01 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#25 Text:LX31L-1-AC :GDD160000-252C Exp:DIOXINRES8290A  
 457.7377 S:25 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,560,0.1,00%,F,T)  
 100 %



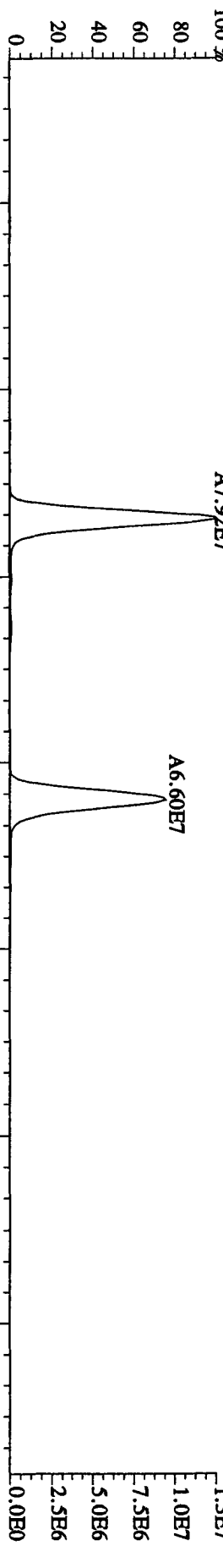
File:21API084D5 #1-434 Acq:22-APR-2010 14:43:01 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#25 Text:LX31L-1-AC :GOD160000-252C Exp:DIOXINRES8290A



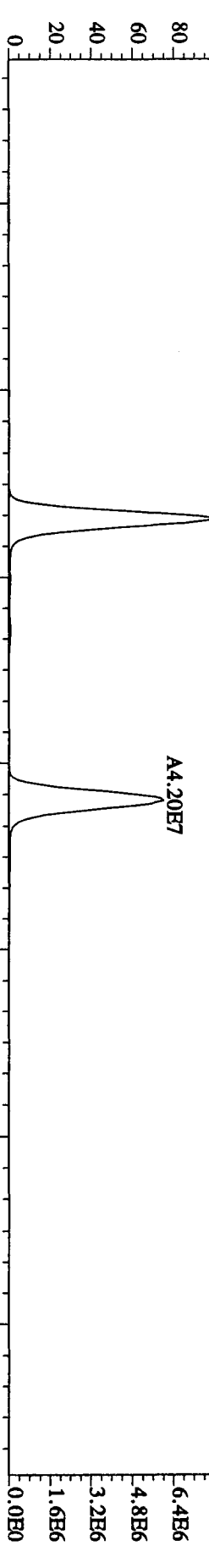
354.9792 S:25 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
100% 22:31 22:57 23:40 24:13 24:37 25:06



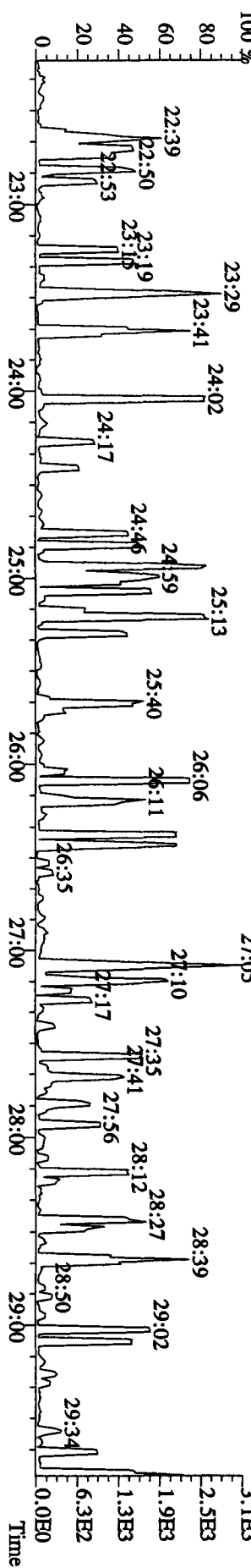
339.8597 S:25 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1764.0,1.00%,F,T)  
100% 23:00 24:00 25:00 26:00 27:00 28:00 29:00



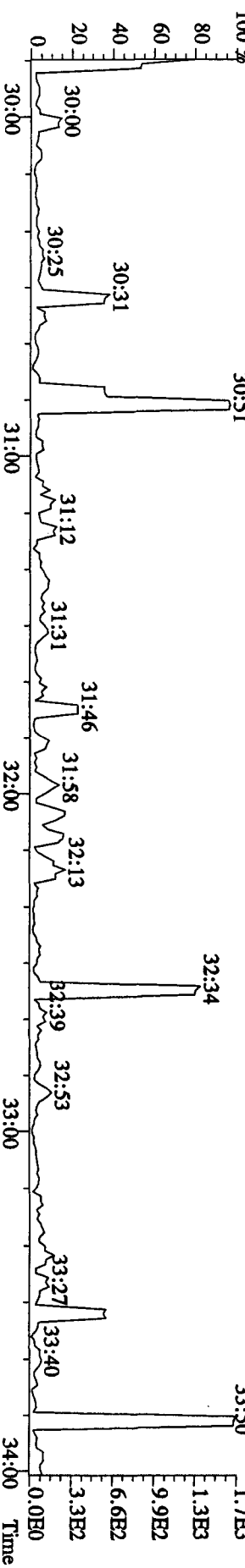
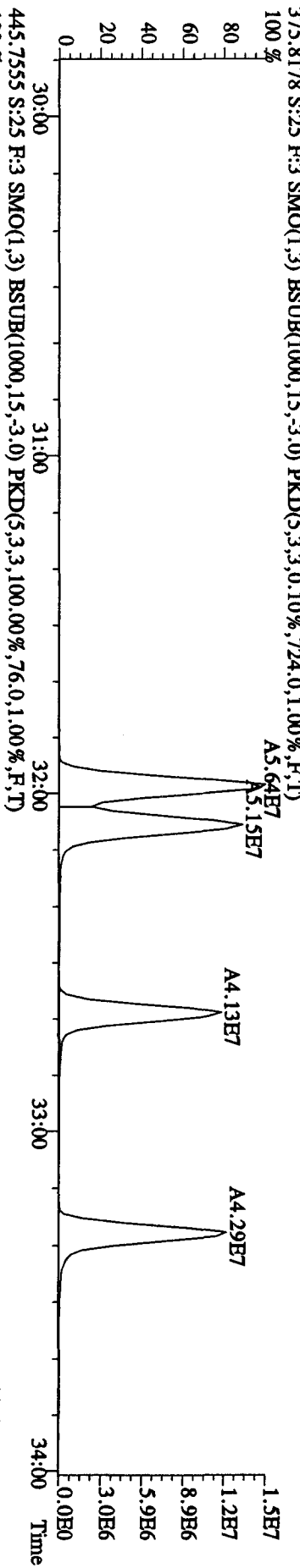
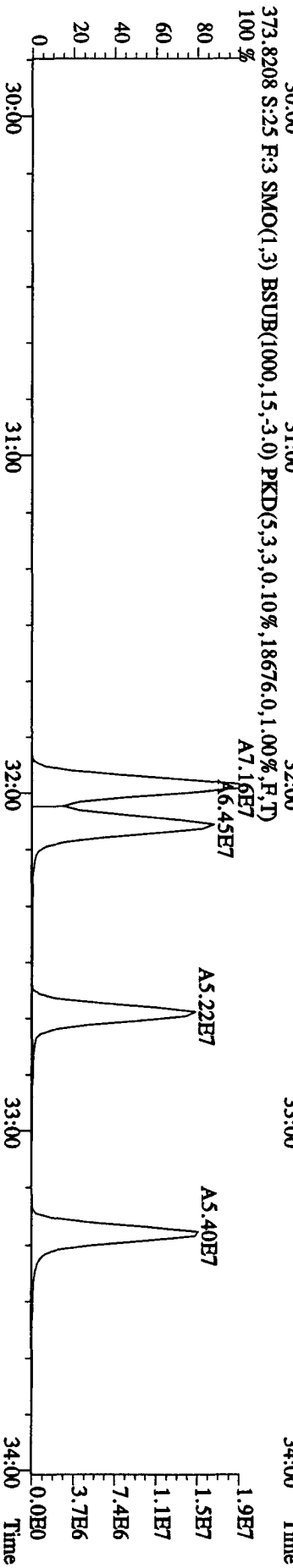
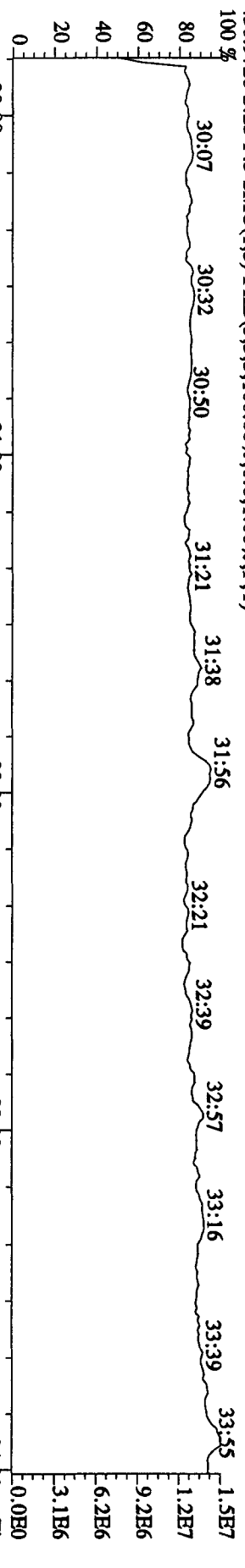
341.8567 S:25 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2572.0,1.00%,F,T)  
100% 23:00 24:00 25:00 26:00 27:00 28:00 29:00



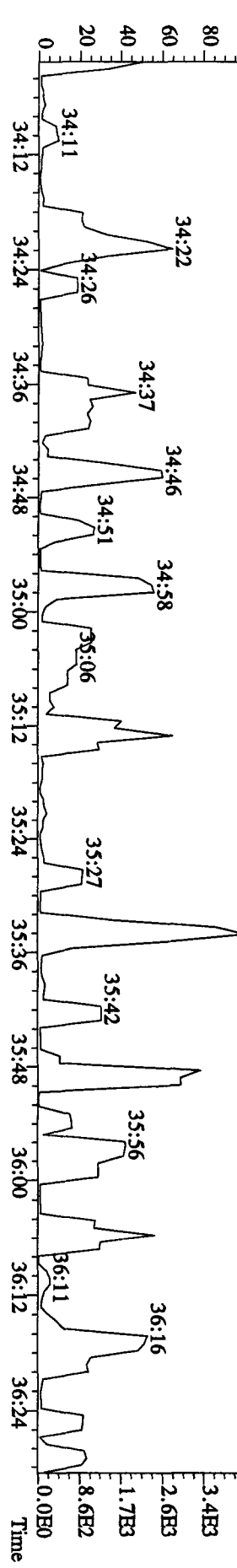
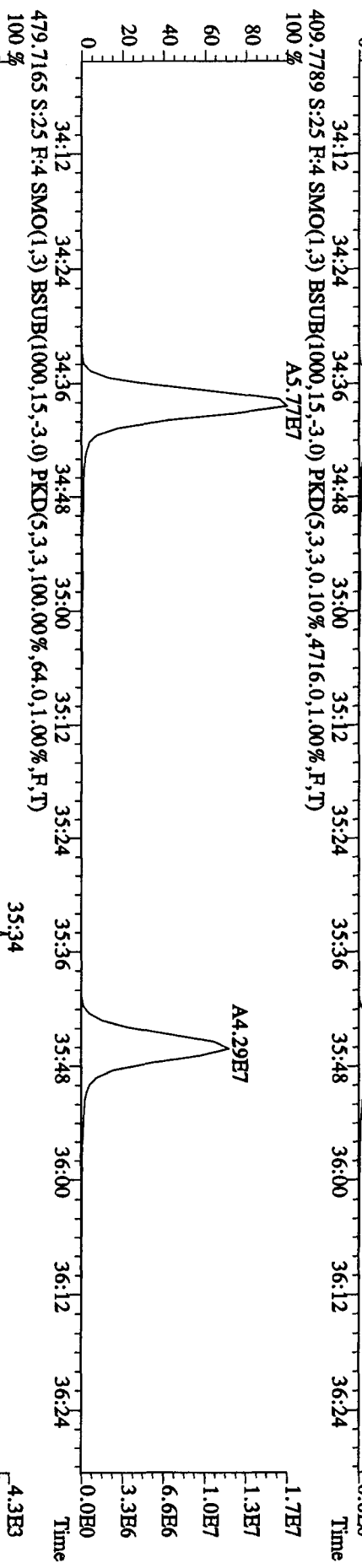
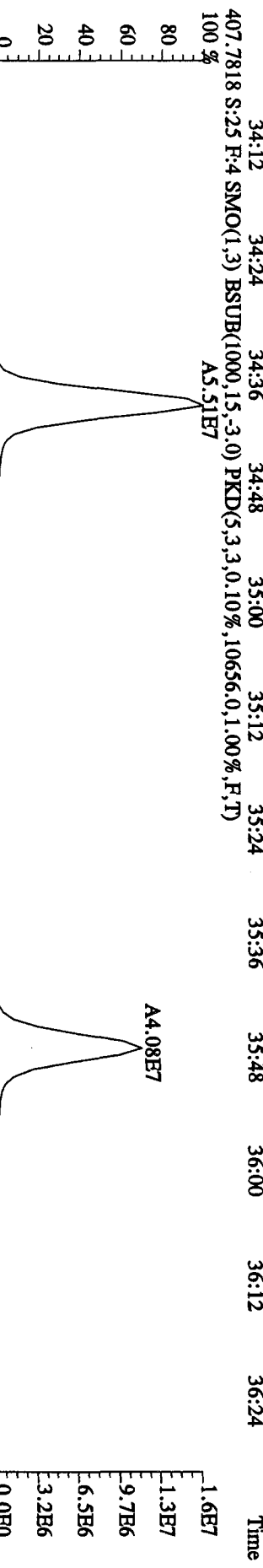
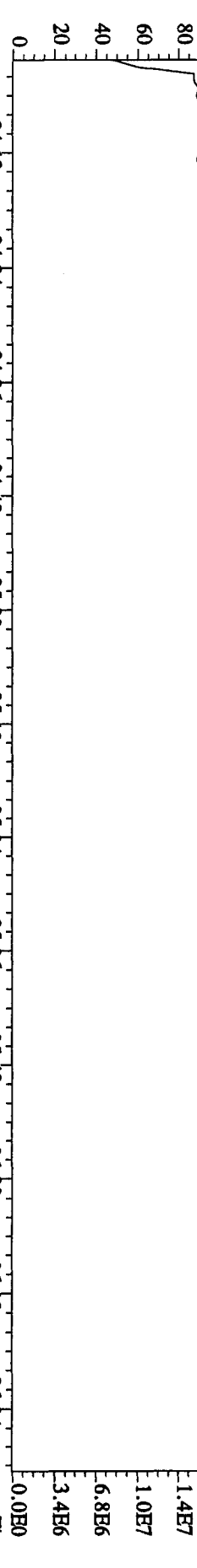
409.7974 S:25 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,60.0,1.00%,F,T)  
100% 23:00 24:00 25:00 26:00 27:00 28:00 29:00



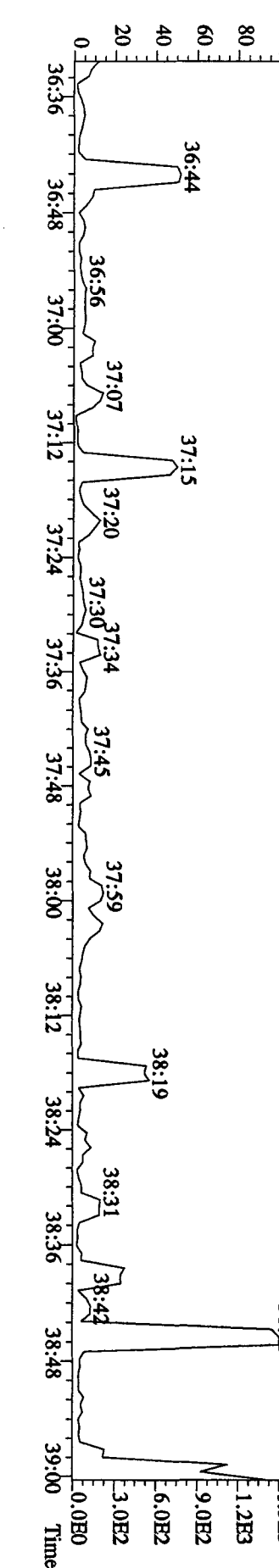
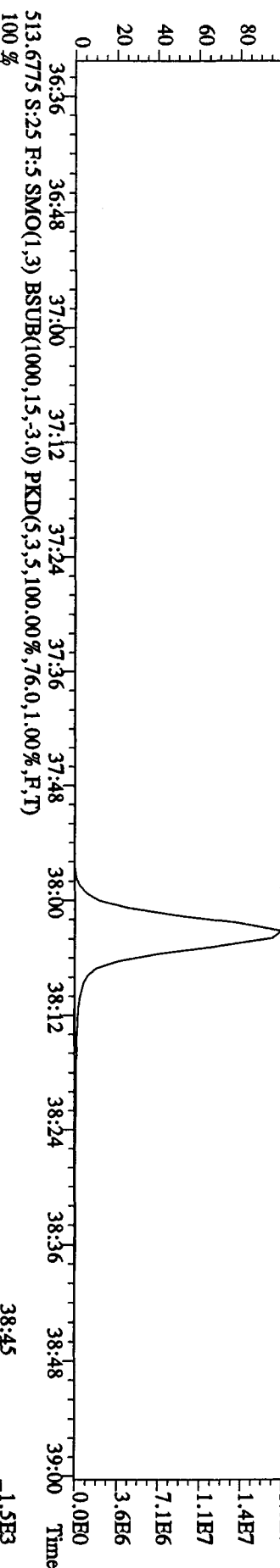
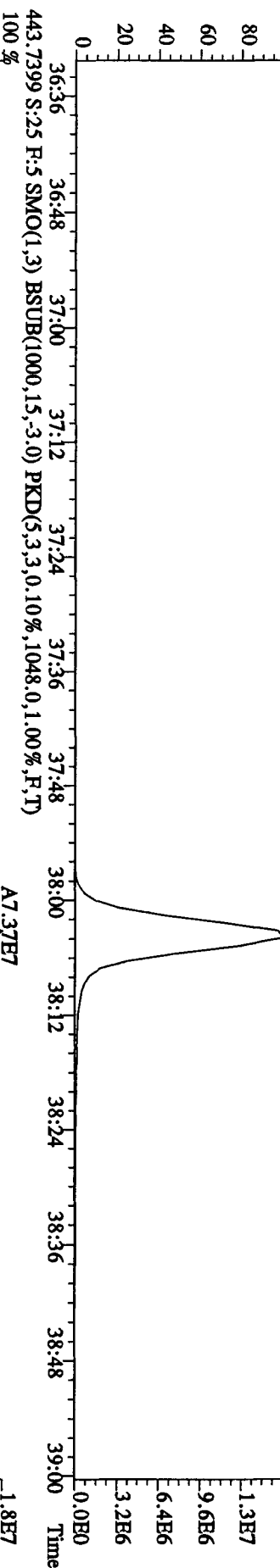
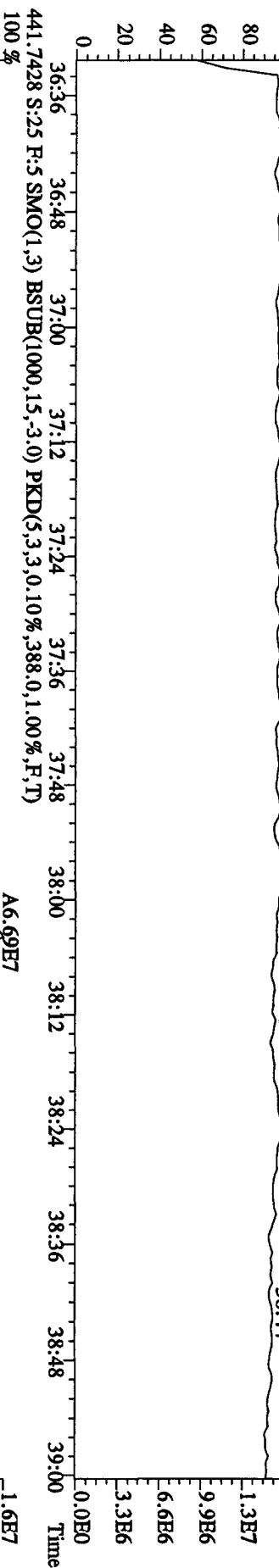




File:21AP10B4D5 #1-198 Acq:22-APR-2010 14:43:01 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#25 Text:LX3LL-1-AC :GOD160000-252C Exp:DIOXINRES8290A  
 430.9728 S:25 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 35:03 35:18 35:27 35:43 35:58 36:06 36:13 36:23  
 100% 34:16 34:26 34:34 34:44



File:21AP10B4D5 #1-190 Acq:22-APR-2010 14:43:01 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#25 Text:LX3LL-1-AC :G0D160000-252C Exp.:DIOXINRES8290A  
 442.9728 S:25 F:5 SMO(1.3) PKD(5,3,3,100,00%,0.0,1.00%,F,T)



LOFH21AD LCSO

28004/23/10

370 04/23/10

Run text: LX3LL-1-AD Sample text: LX3LL-1-AD :GOD160000-252L  
 Run #27 Filename: 21AP10B4D5 S: 26 I: 1 Results: 21AP10B4D58290A  
 Acquired: 22-APR-10 15:27:03 Processed: 22-APR-10 16:50:07  
 Run: 21AP10B4D5 Analyte: 8290AHRS 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	193026400	0.80 y	19:33	-	145.090	-	-	n
13C-2,3,7,8-TCDF	363444000	0.79 y	18:59	1.52	1238.131	0.458	61.9	n
2,3,7,8-TCDF	38335800	0.78 y	19:00	0.95	223.162	0.221	-	n
Total TCDF	38929006	0.45 n	17:58	0.95	<del>226.615</del>	0.221	-	n
13C-2,3,7,8-TCDD	277813000	0.80 y	19:46	0.95	1515.497	0.435	75.8	n
2,3,7,8-TCDD	28129400	0.77 y	19:47	1.02	198.337	0.236	-	n
Total TCDD	28129400	0.77 y	19:47	1.02	<del>198.337</del>	0.236	-	n
37Cl-2,3,7,8-TCDD	283920000	1.00 y	19:47	2.26	650.461	0.135	81.3	n
13C-1,2,3,7,8-PeCDF	303613000	1.60 y	24:41	1.05	1497.545	0.513	74.9	n
1,2,3,7,8-PeCDF	162697600	1.58 y	24:42	1.04	1025.830	0.520	-	n
2,3,4,7,8-PeCDF	144443600	1.59 y	26:13	0.98	968.791	0.553	-	n
Total F2 PeCDF	310023608	1.67 y	23:08	1.01	<del>2013.356</del>	0.536	-	n
Total F1 PeCDF	158358	0.73 n	16:18	1.01	<del>15.029</del>	0.214	-	n
13C-1,2,3,7,8-PeCDD	184988300	1.62 y	27:00	0.67	1429.385	0.393	71.5	n
1,2,3,7,8-PeCDD	91669300	1.60 y	27:03	0.98	1009.327	0.724	-	n
Total PeCDD	91669300	1.60 y	27:03	0.98	<del>1009.327</del>	0.724	-	n
13C-1,2,3,7,8,9-HxCDD	144065100	1.27 y	33:07	-	140.200	-	-	n
13C-1,2,3,4,7,8-HxCDF	234206400	0.53 y	31:58	1.02	1586.260	0.011	79.3	n
1,2,3,4,7,8-HxCDF	153046400	1.26 y	31:59	1.21	1077.780	0.216	-	n
1,2,3,6,7,8-HxCDF	152678000	1.27 y	32:06	1.34	970.957	0.195	-	n
2,3,4,6,7,8-HxCDF	142614300	1.25 y	32:39	1.22	996.382	0.214	-	n
1,2,3,7,8,9-HxCDF	142917300	1.27 y	33:18	1.09	1117.142	0.240	-	n
Total HxCDF	591520267	1.09 y	30:53	1.22	<del>4164.115</del>	0.215	-	n
13C-1,2,3,6,7,8-HxCDD	180773100	1.26 y	32:52	0.81	1554.766	0.024	77.7	n
1,2,3,4,7,8-HxCDD	100872800	1.27 y	32:48	1.01	1108.528	0.103	-	n
1,2,3,6,7,8-HxCDD	107026600	1.30 y	32:52	1.11	1063.009	0.093	-	n
1,2,3,7,8,9-HxCDD	112192300	1.28 y	33:08	1.21	1026.650	0.086	-	n
Total HxCDD	320091700	1.27 y	32:48	1.11	<del>3198.187</del>	0.093	-	n
13C-1,2,3,4,6,7,8-HpCDF	209546300	0.44 y	34:38	0.86	1686.230	3.398	84.3	n
1,2,3,4,6,7,8-HpCDF	140098500	0.95 y	34:38	1.31	1020.983	1.953	-	n
1,2,3,4,7,8,9-HpCDF	117808000	0.95 y	35:46	1.03	1096.307	2.493	-	n
Total HpCDF	259006998	0.95 y	34:38	1.17	<del>2126.286</del>	2.190	-	n
13C-1,2,3,4,6,7,8-HpCDD	182922800	1.06 y	35:26	0.70	1820.405	1.356	91.0	n
1,2,3,4,6,7,8-HpCDD	98357500	1.03 y	35:27	1.07	1003.308	0.318	-	n
Total HpCDD	99174618	0.88 n	34:53	1.07	<del>1011.643</del>	0.318	-	n
13C-OCDD	270587000	0.92 y	37:56	0.53	3534.576	0.025	88.4	n
OCDF	199392200	0.90 y	38:04	1.45	2039.327	0.167	-	n

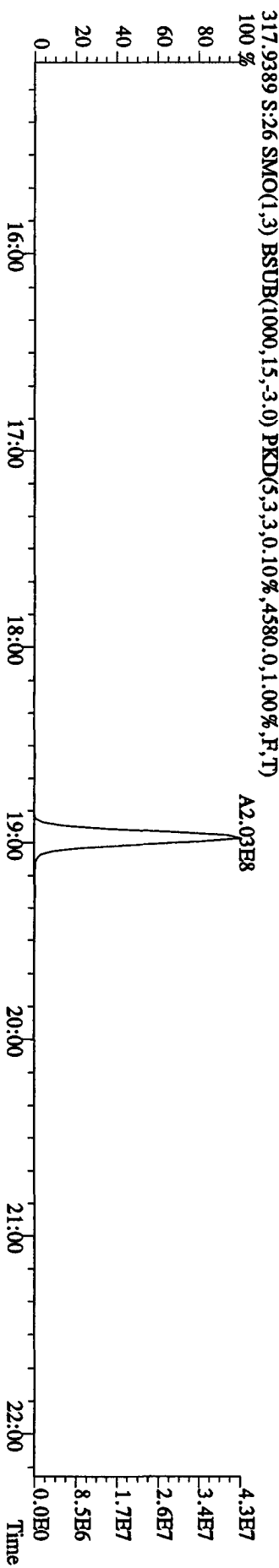
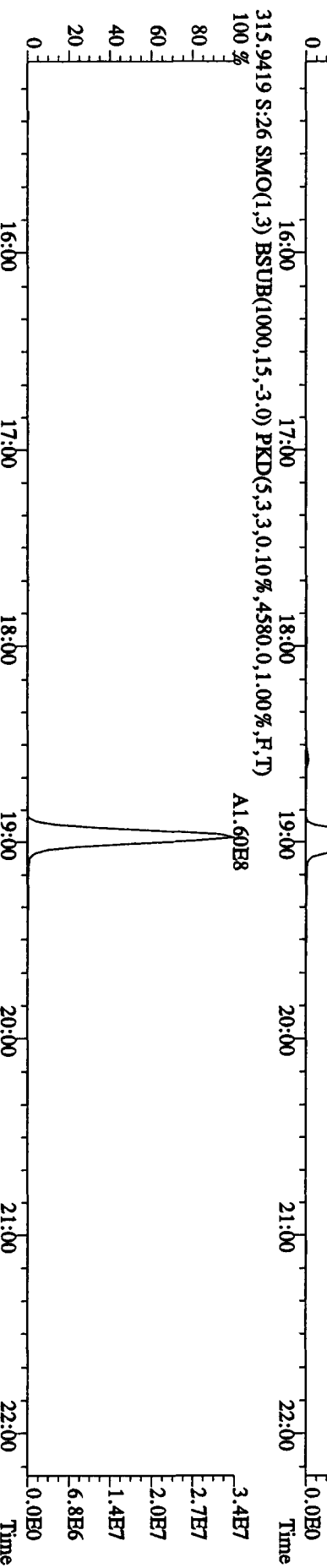
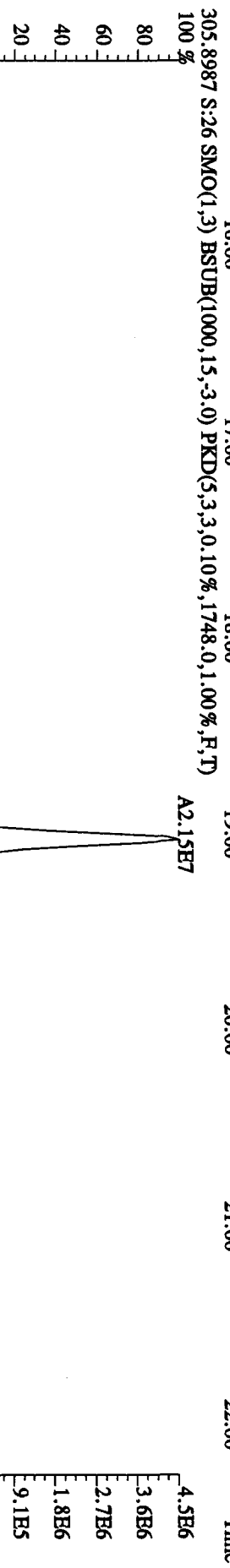
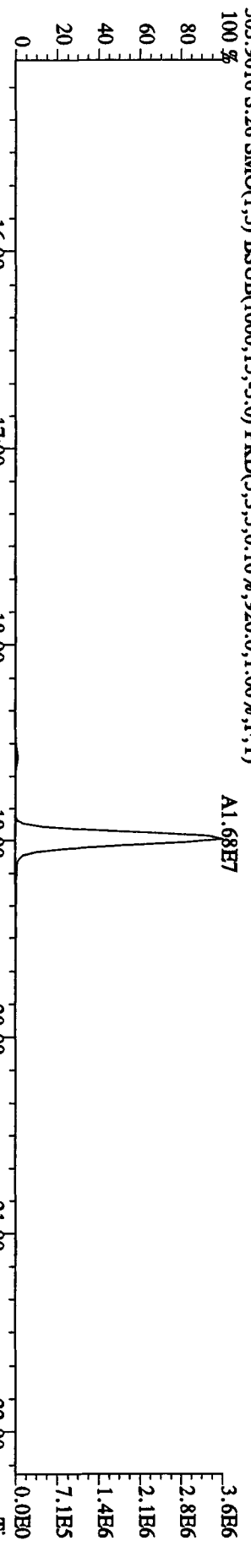
OCDD 163383300 0.90 y 37:57 1.17

2070.947 ✓

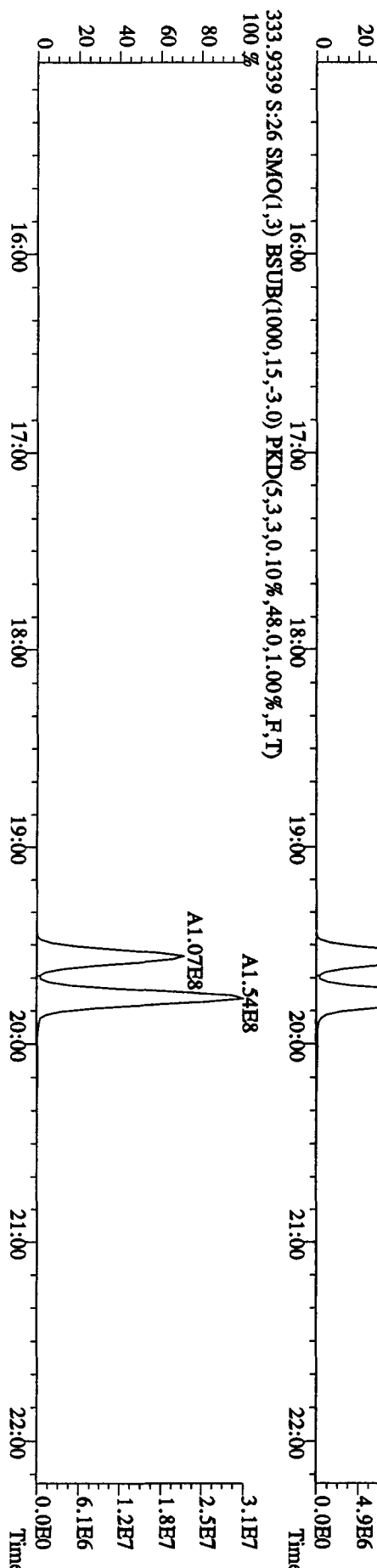
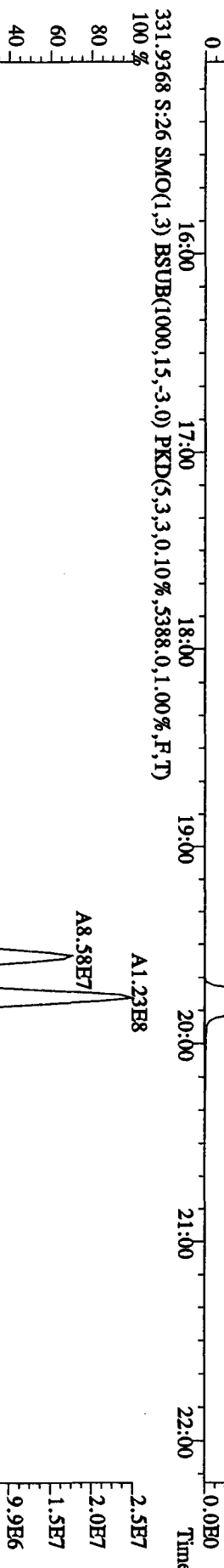
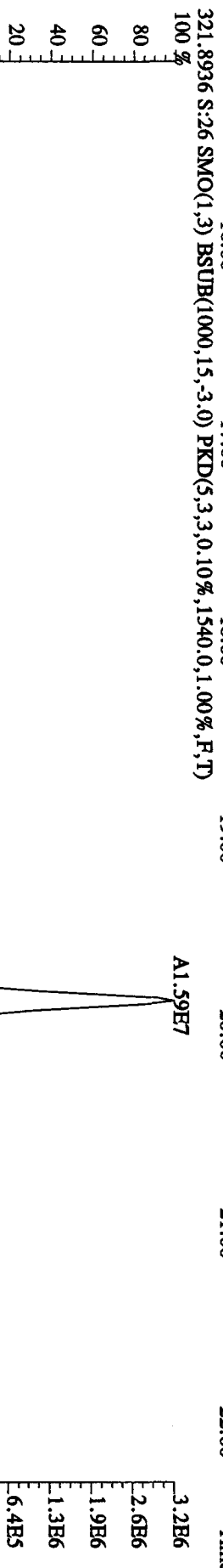
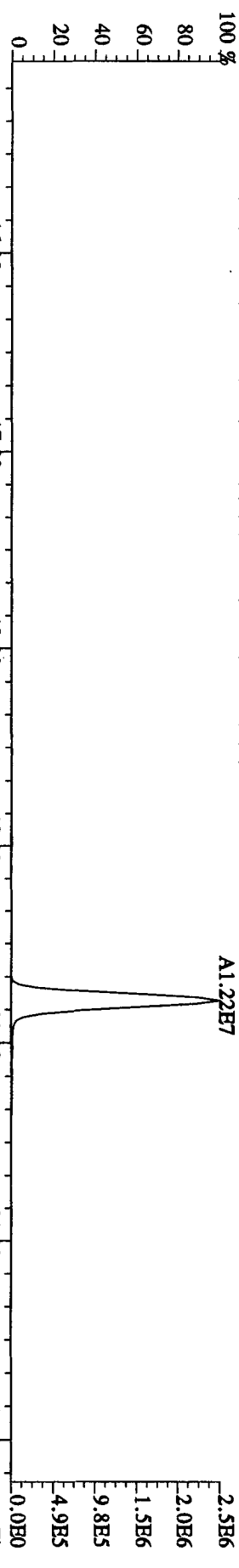
1.211

- n

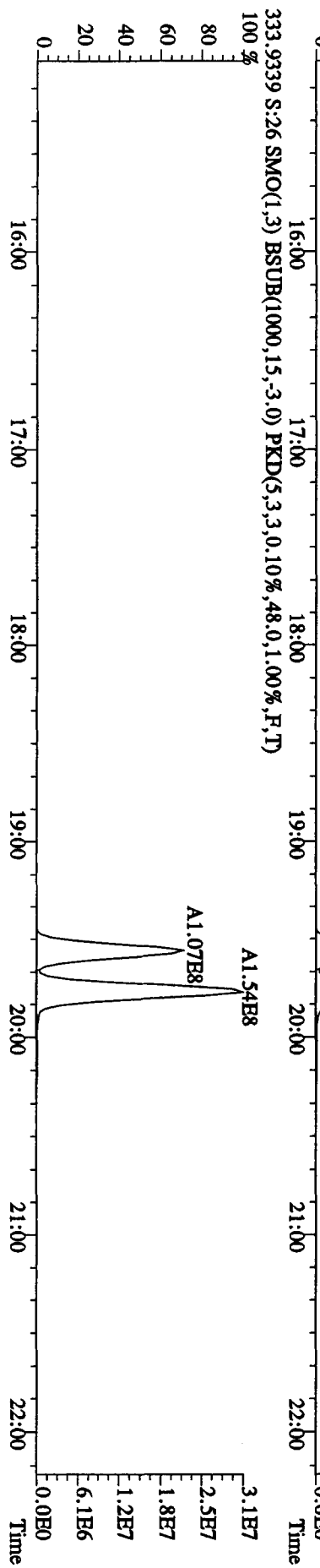
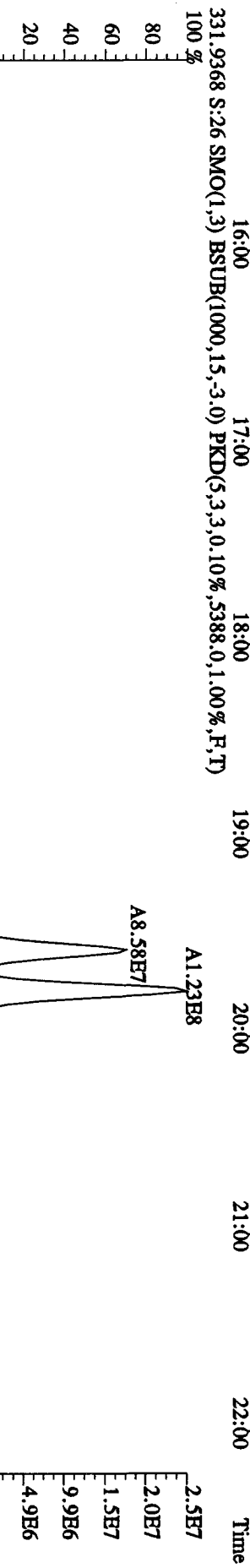
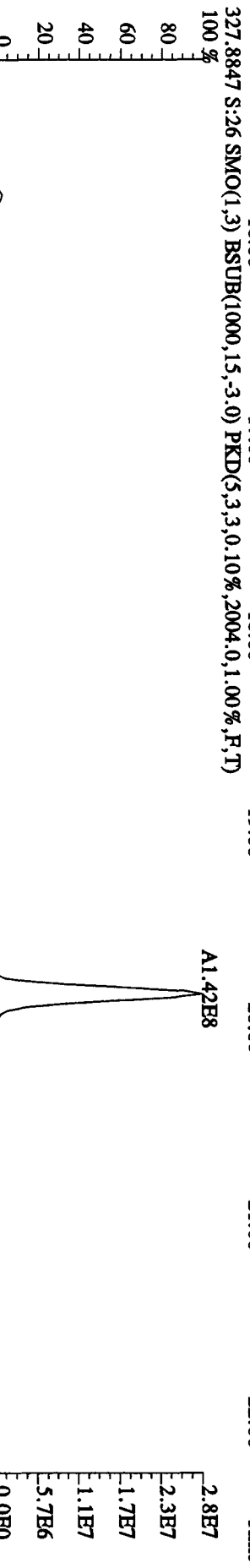
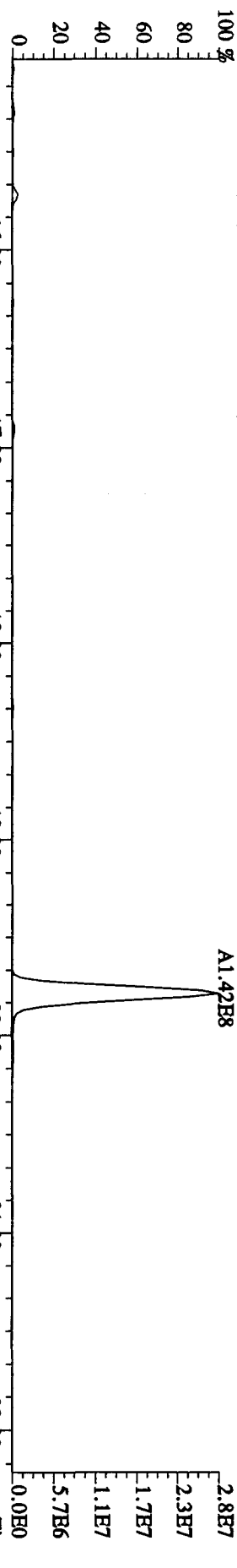
File:21AP10B4D5 #1-434 Acq:22-APR-2010 15:27:03 GC EI+ Voltage:519V Autospec-UltimaE  
 Sample#26 Text:LX3LL-1-AD :G0D160000-252L Exp:DIOXINRES8290A  
 303.9016 S:26 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,920.0,1.00%,F,T)  
 100%



File:21AD10B4D5 #1-434 Acq:22-APR-2010 15:27:03 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#26 Text:LX3LL-1-AD :GDD160000-252L Exp:DIOXINRES8290A  
 319.8965 S:26 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,684,0,1,00%,F,T)

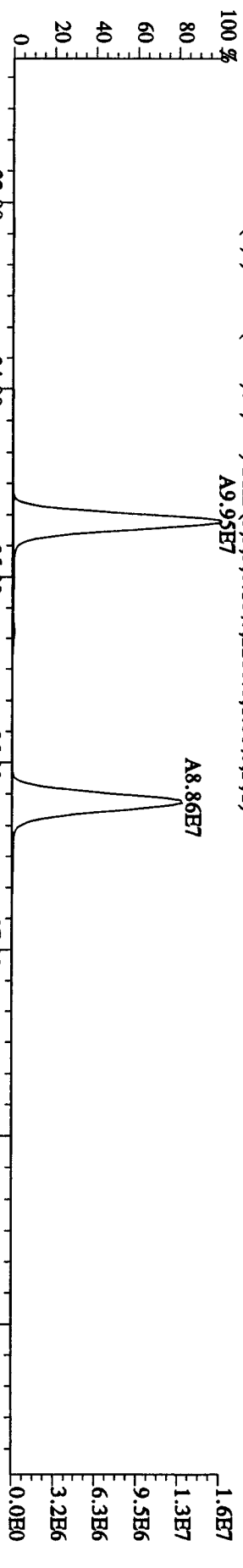


File:21API0B4D5 #1-434 Acq:22-APR-2010 15:27:03 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#26 Text:LX3LL-1-AD :G0D160000-252L Exp:DIOXINRES8290A  
 327.8847 S:26 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2004,0,1.00%,F,T)

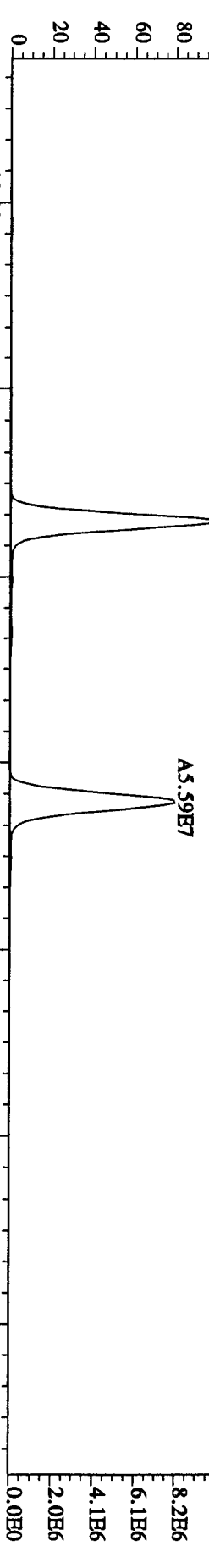




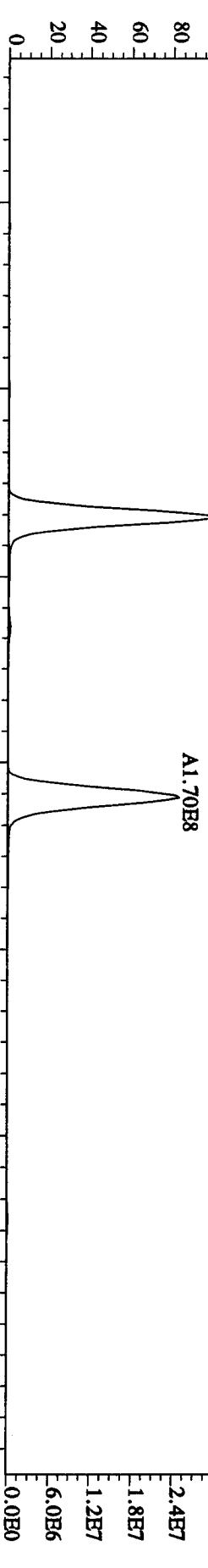
File:21AP10B4D5 #1-604 Acq:22-APR-2010 15:27:03 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#26 Text:LX31L-1-AD :G0D160000-252L Exp:DIOXINRES8290A  
 339.8597 S:26 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2280.0,1.00%,F,T)  
 100 % A9.95E7



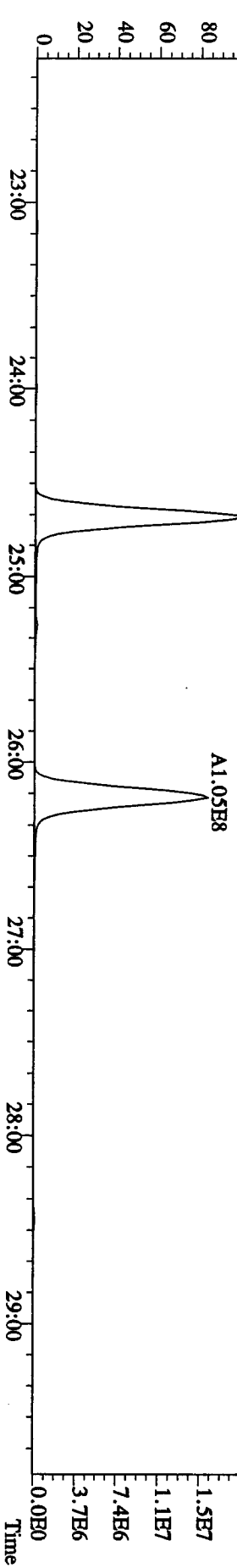
341.8567 S:26 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2084.0,1.00%,F,T)  
 100 % A6.32E7



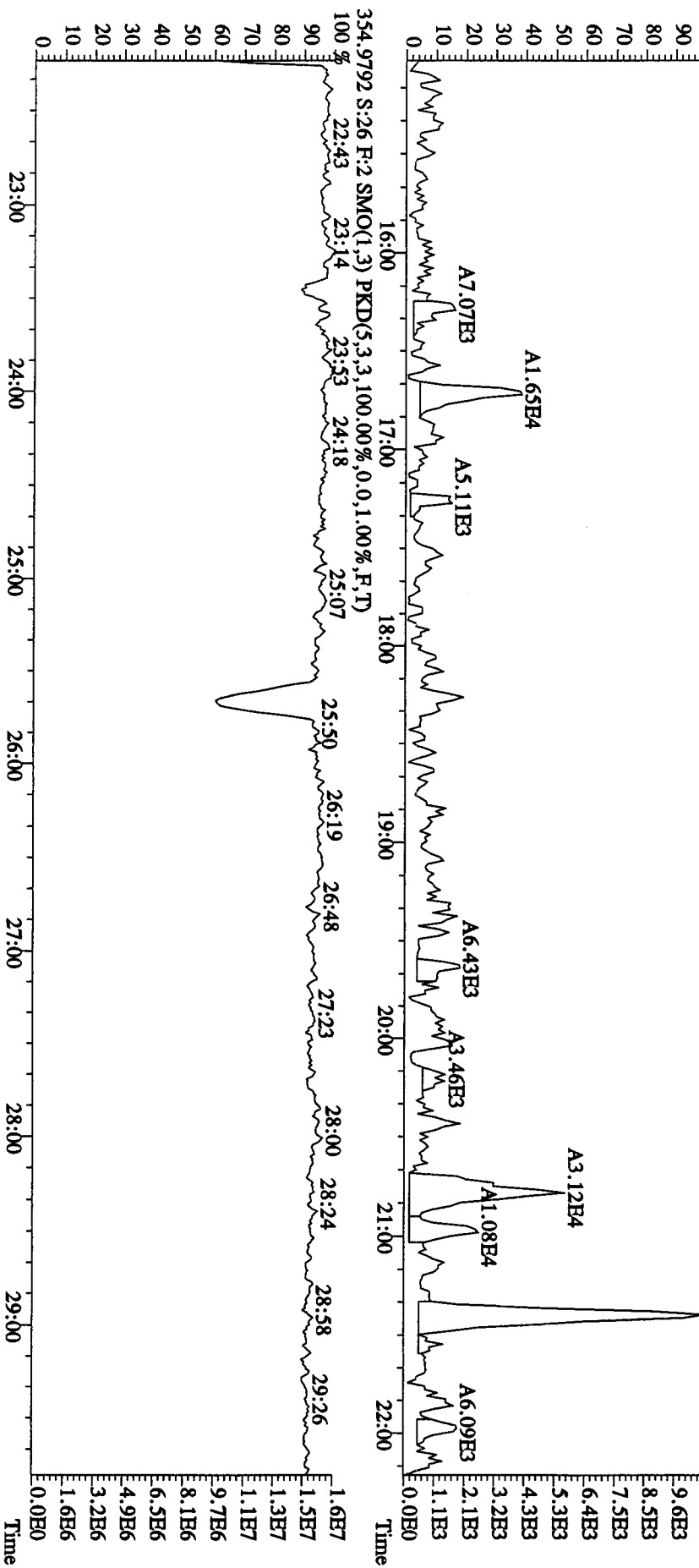
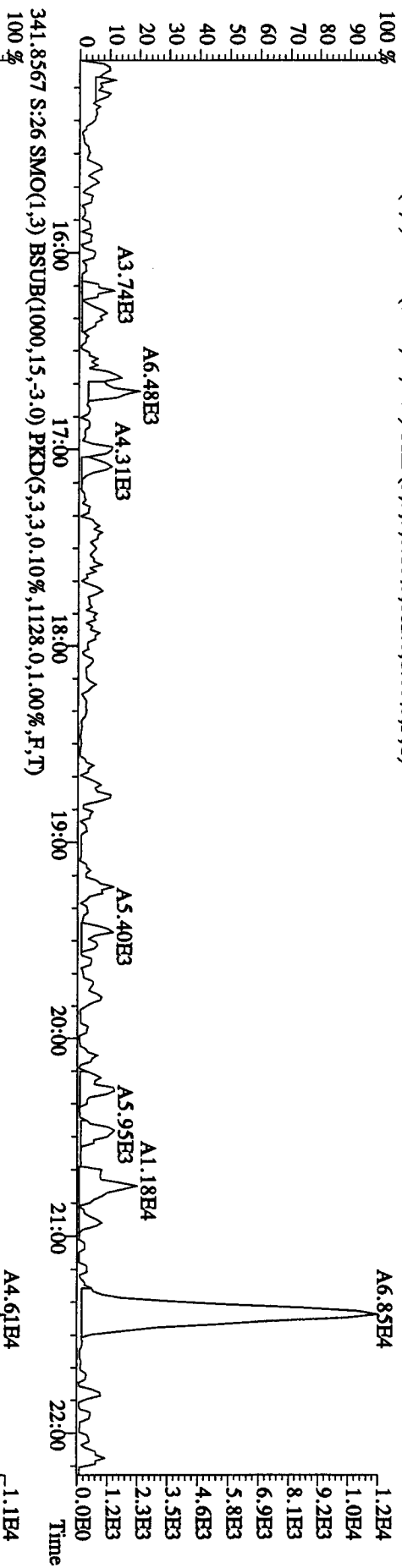
351.9000 S:26 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3348.0,1.00%,F,T)  
 100 % A1.87E8



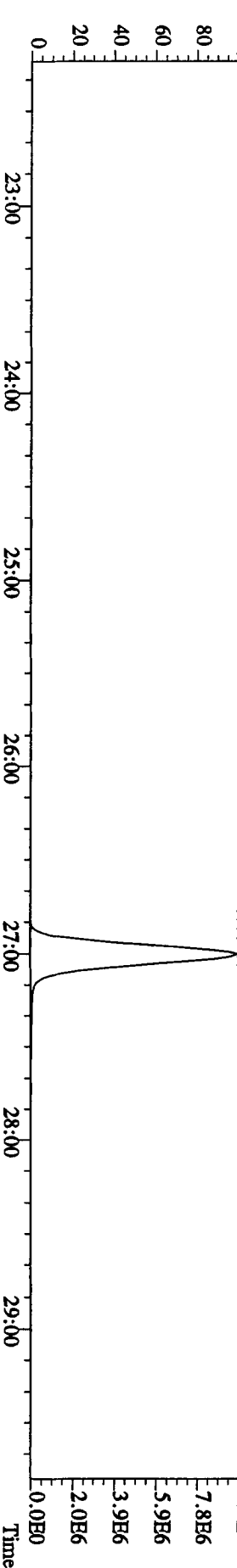
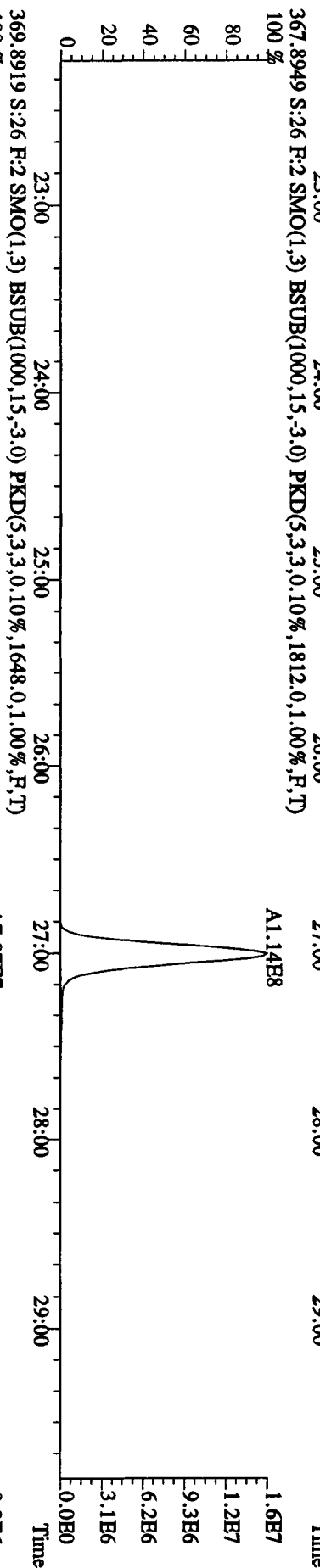
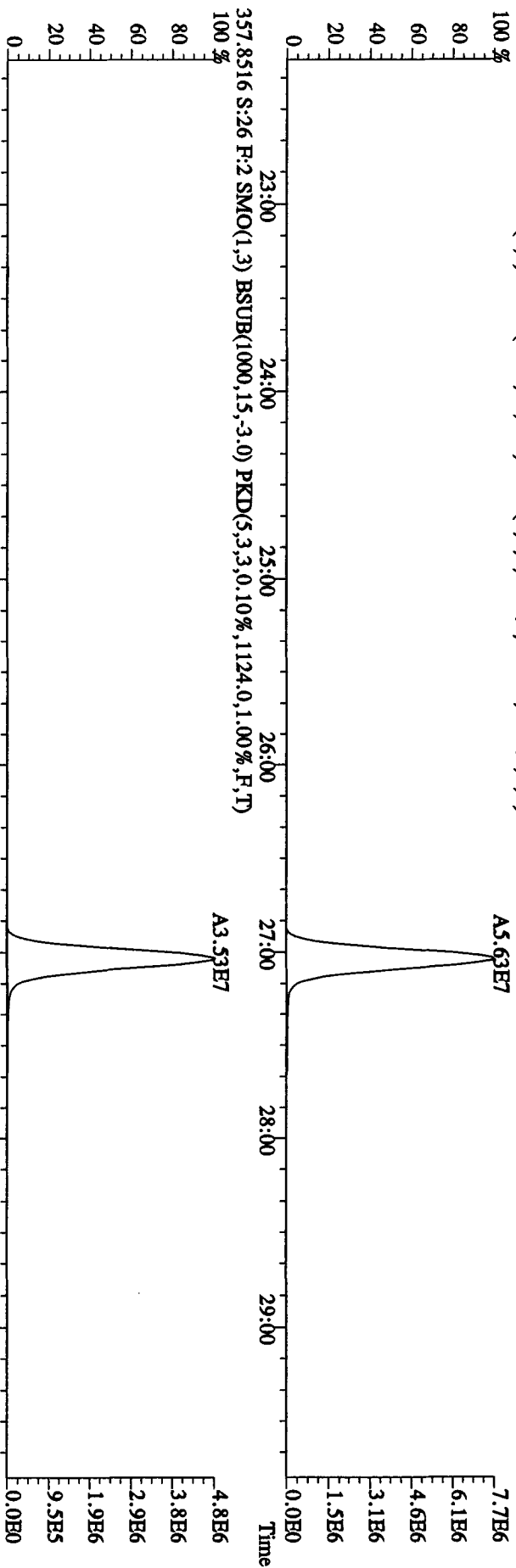
353.8970 S:26 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3732.0,1.00%,F,T)  
 100 % A1.17E8



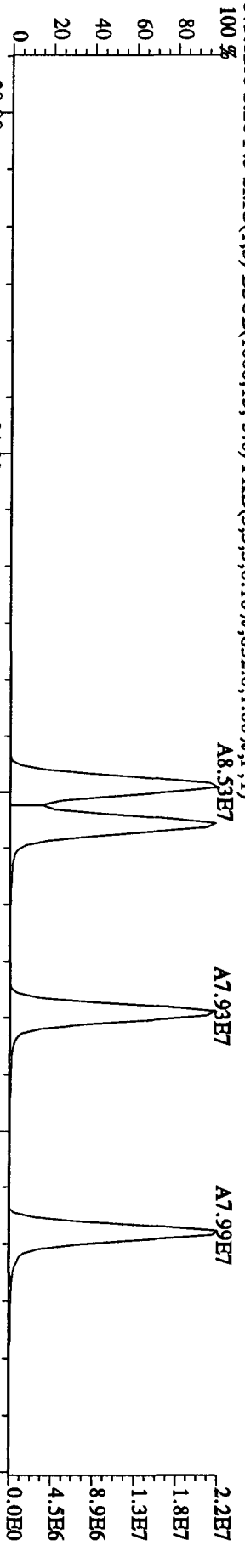
File:21AP10B4D5 #1-434 Acq:22-APR-2010 15:27:03 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#26 Text:LX31L-1-AD :G0D160000-252L Exp:DIOXINRES8290A  
 339.8597 S:26 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,612.0,1.00%,F,T)



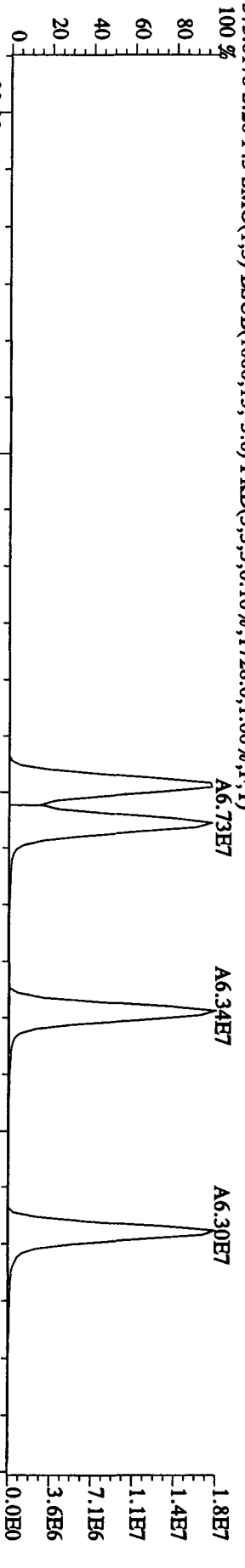
File:21AP10B4D5 #1-604 Acq:22-APR-2010 15:27:03 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#26 Text:LX31L-1-AD :GDD160000-252L Exp:DIOXINRES8290A  
 357.8516 S:26 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1124.0,1.00%,F,T)  
 100 %



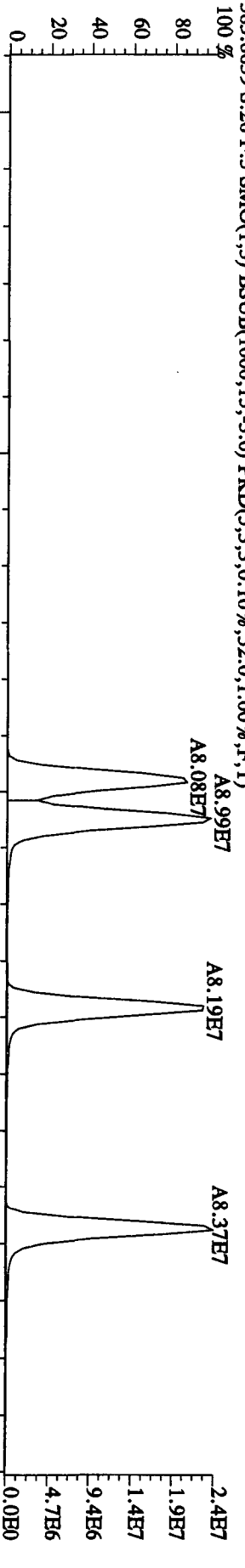
373.8208 S:26 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,852.0,1.00%,F,T)



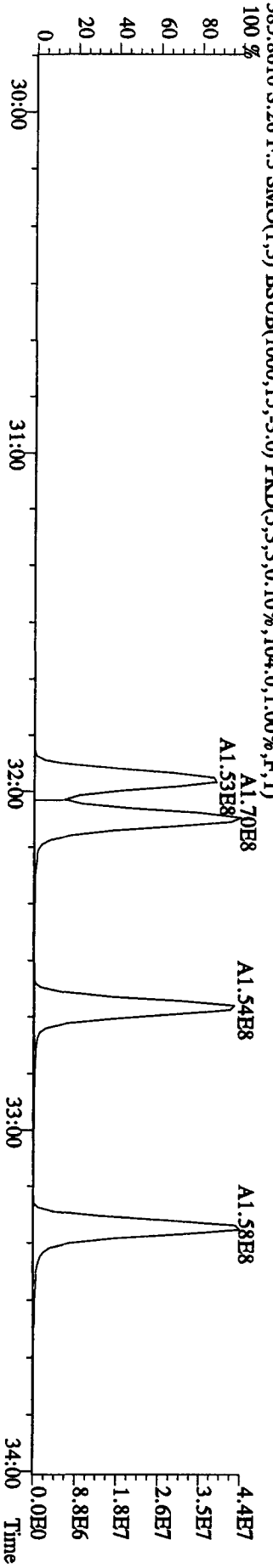
375.8178 S:26 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1728.0,1.00%,F,T)



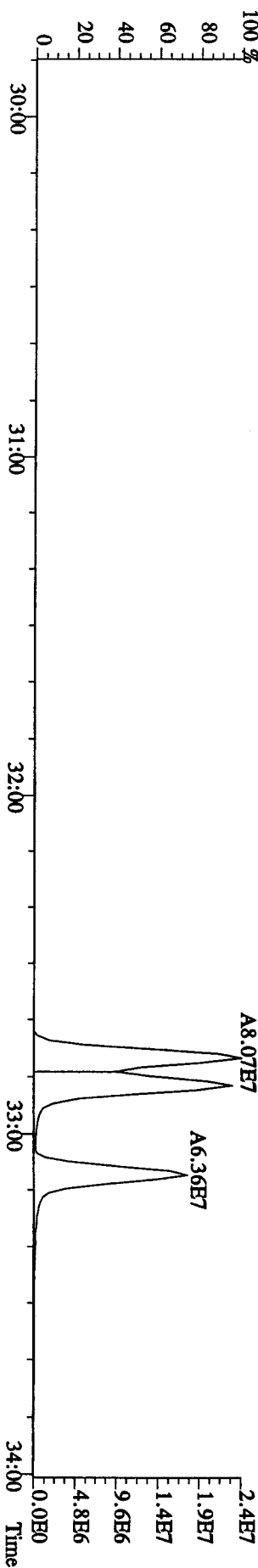
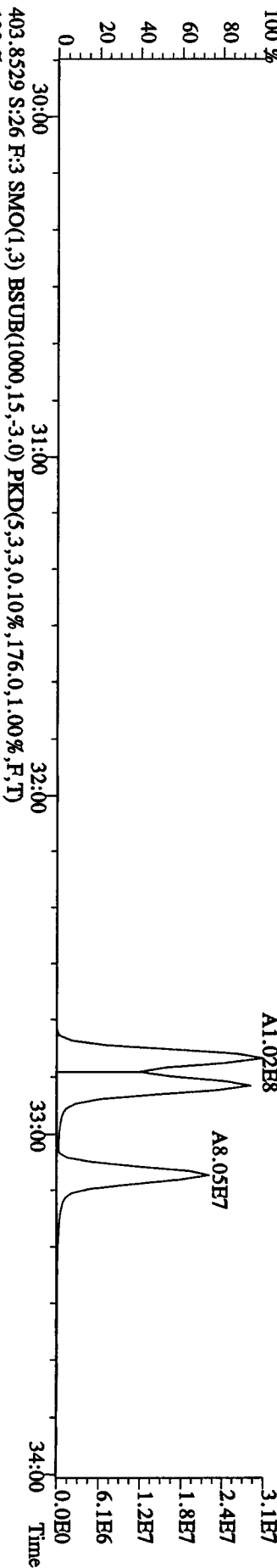
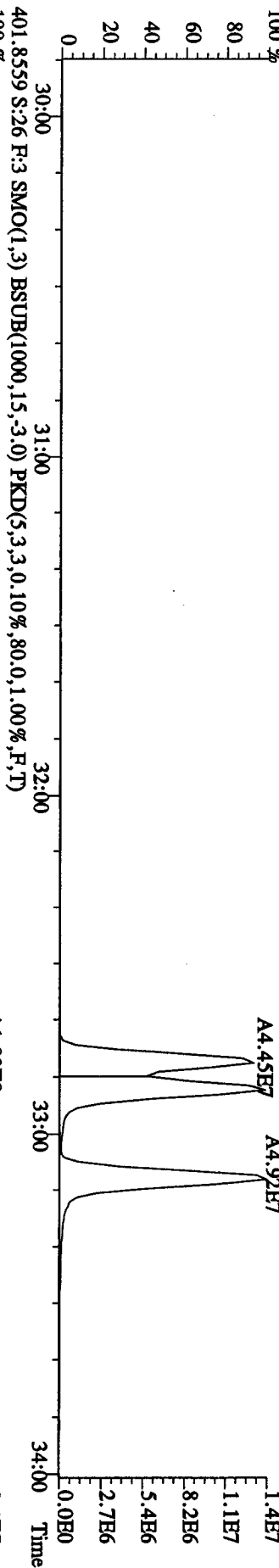
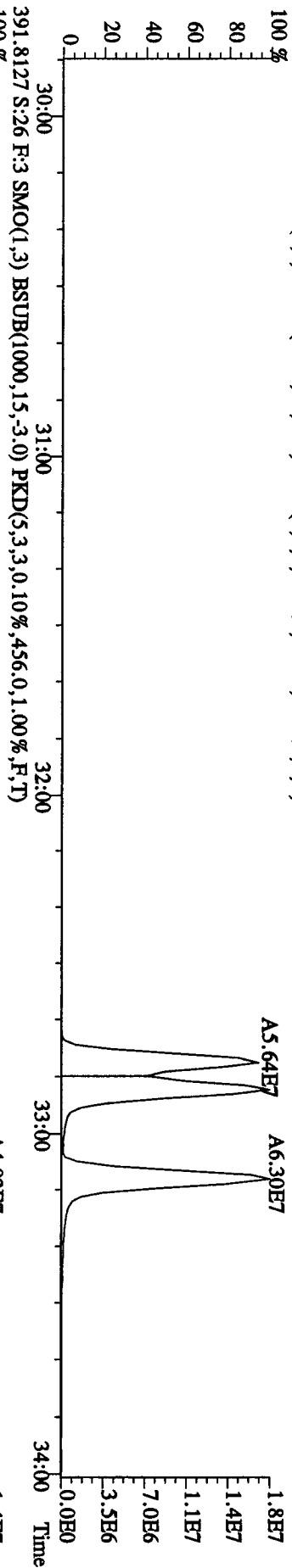
383.8639 S:26 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,52.0,1.00%,F,T)



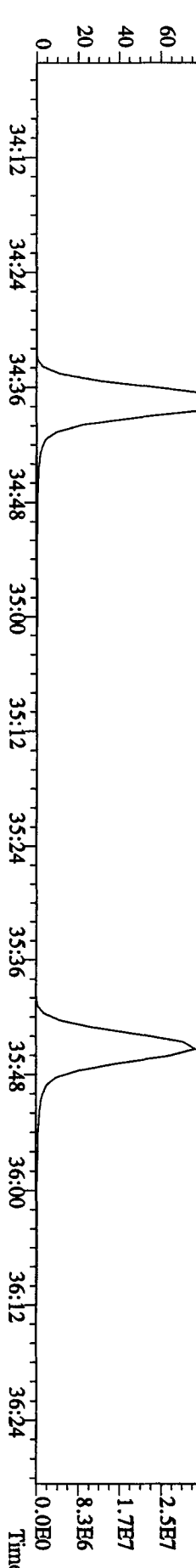
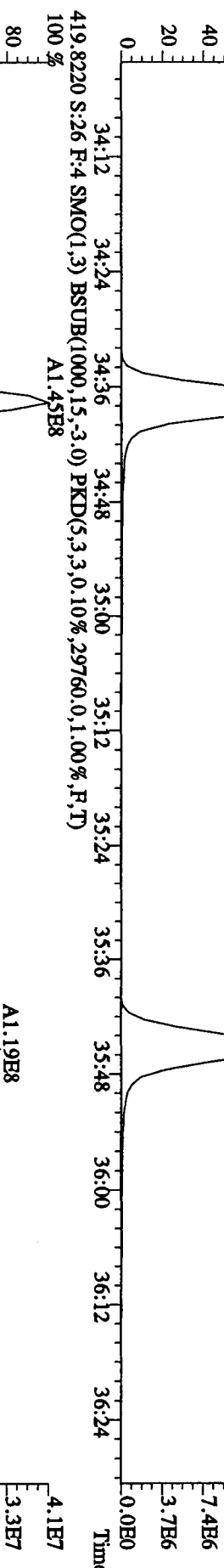
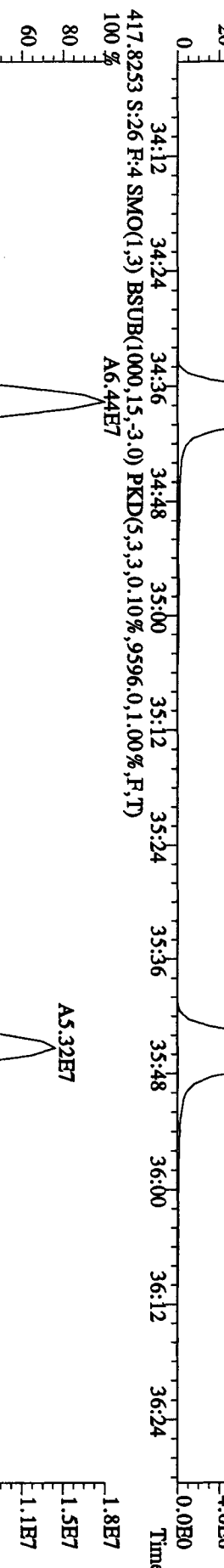
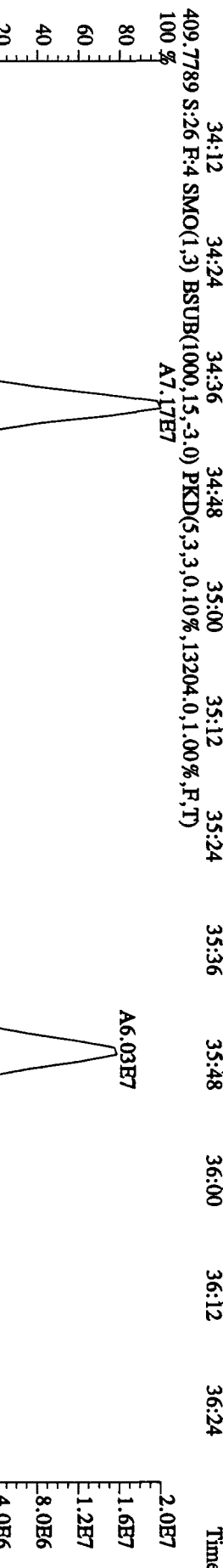
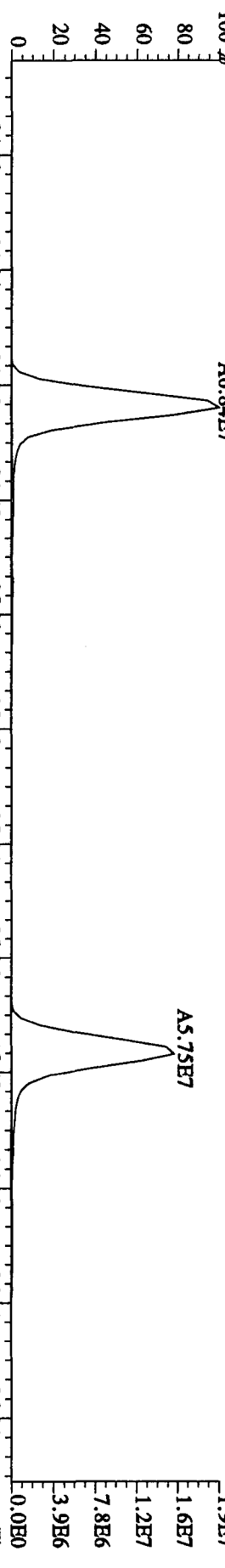
385.8610 S:26 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,104.0,1.00%,F,T)



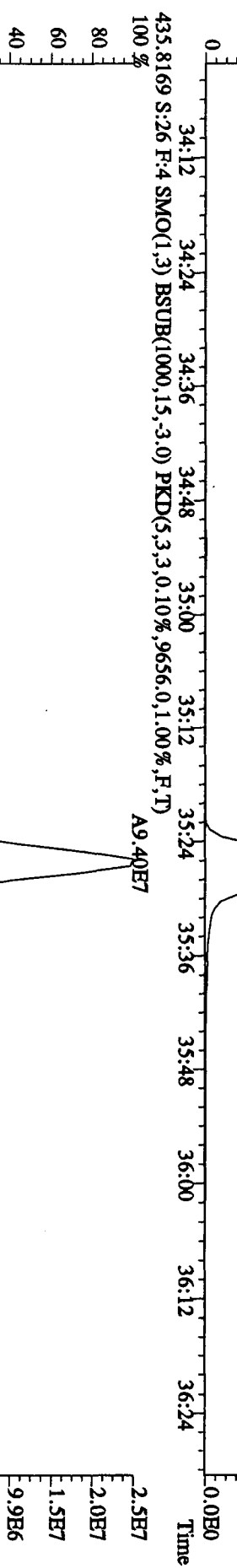
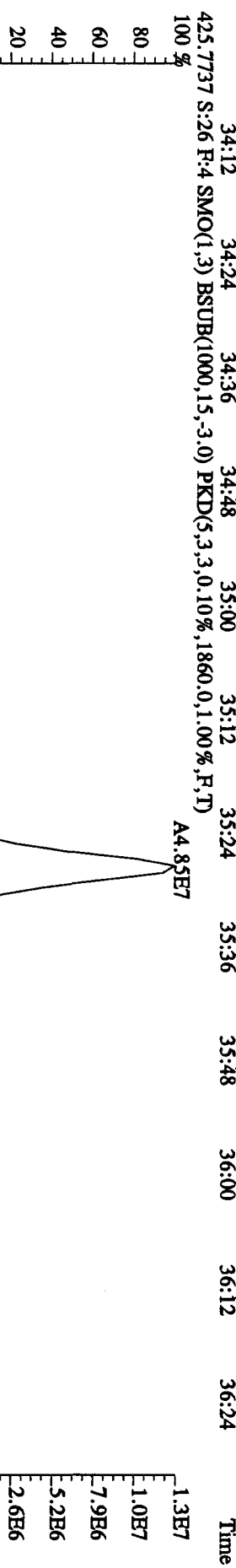
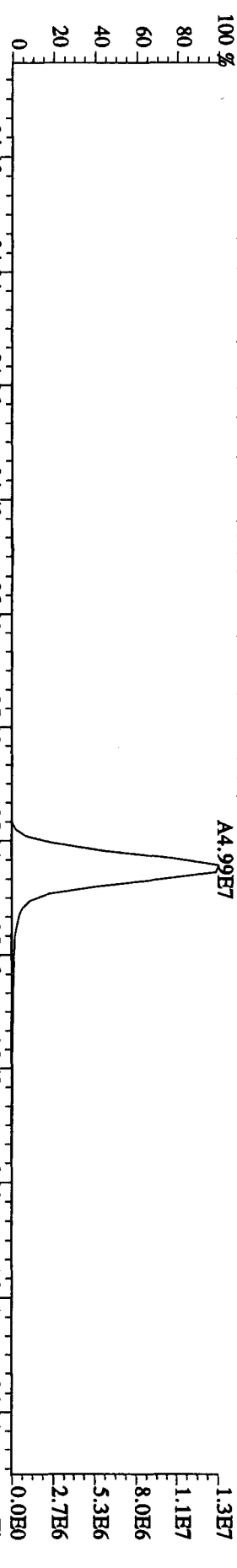
File:21AP10B4D5 #1-317 Acq:22-APR-2010 15:27:03 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#26 Text:LX31L-1-AD :G0D160000-252L Exp:DIOXINRES8290A  
 389.8157 S:26 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,436.0,1.00%,F,T)  
 100 %



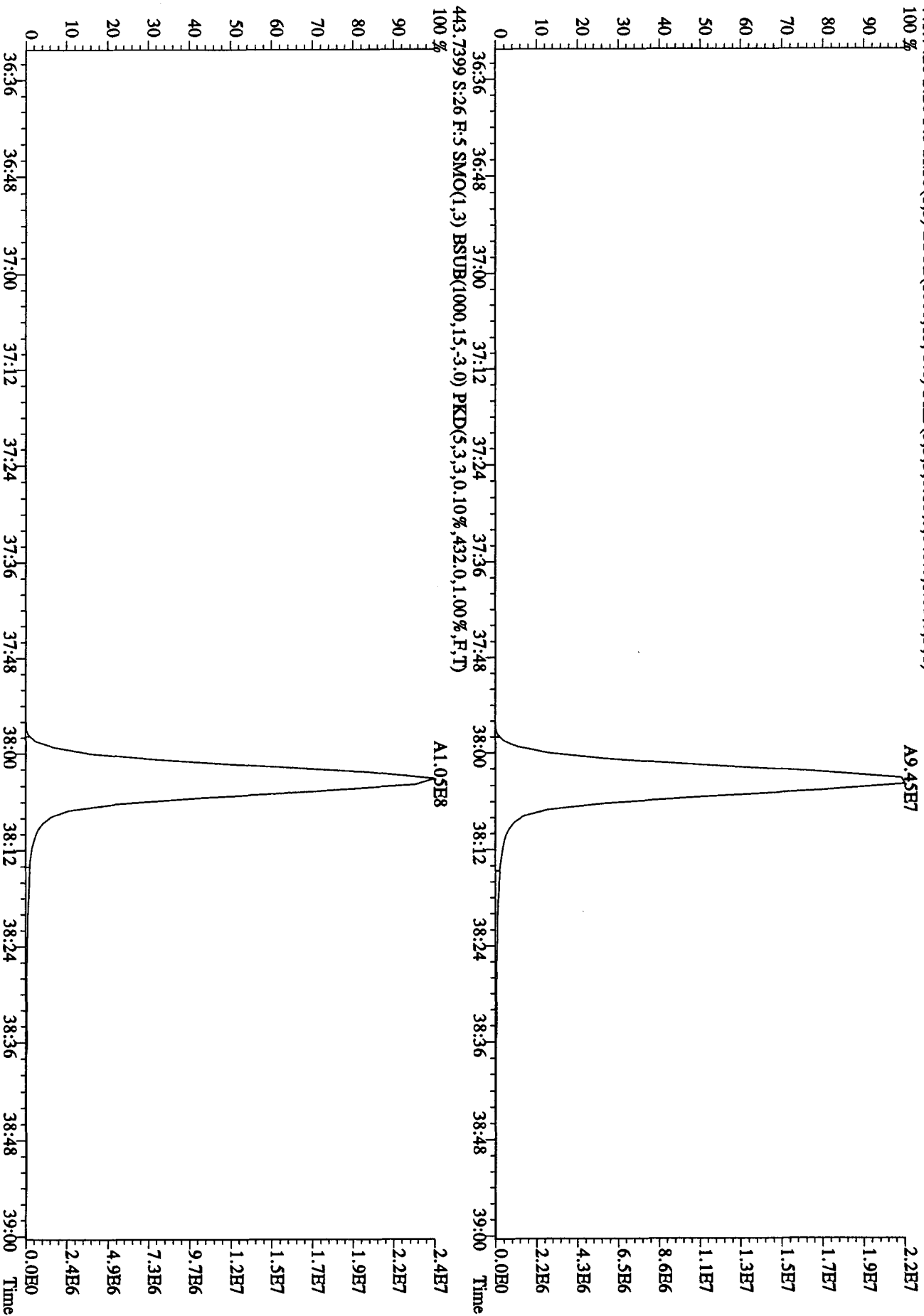
File:21AD10B4D5 #1-198 Acq:22-APR-2010 15:27:03 GC EI+ Voltage:STR Autospec-Ultimate  
 Sample#26 Text:LX3LL-1-AD :GDD160000-252L Exp:DIOXINRES8290A  
 407.7818 S:26 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12272.0,1.00%,F,T)



File:21AP10B4D5 #1-198 Acq:22-APR-2010 15:27:03 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#26 Text:LX3LL-1-AD :GOD160000-252L Exp:DIOXINRES8290A  
 423.7766 S:26 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,900.0,1.00%,F,T)

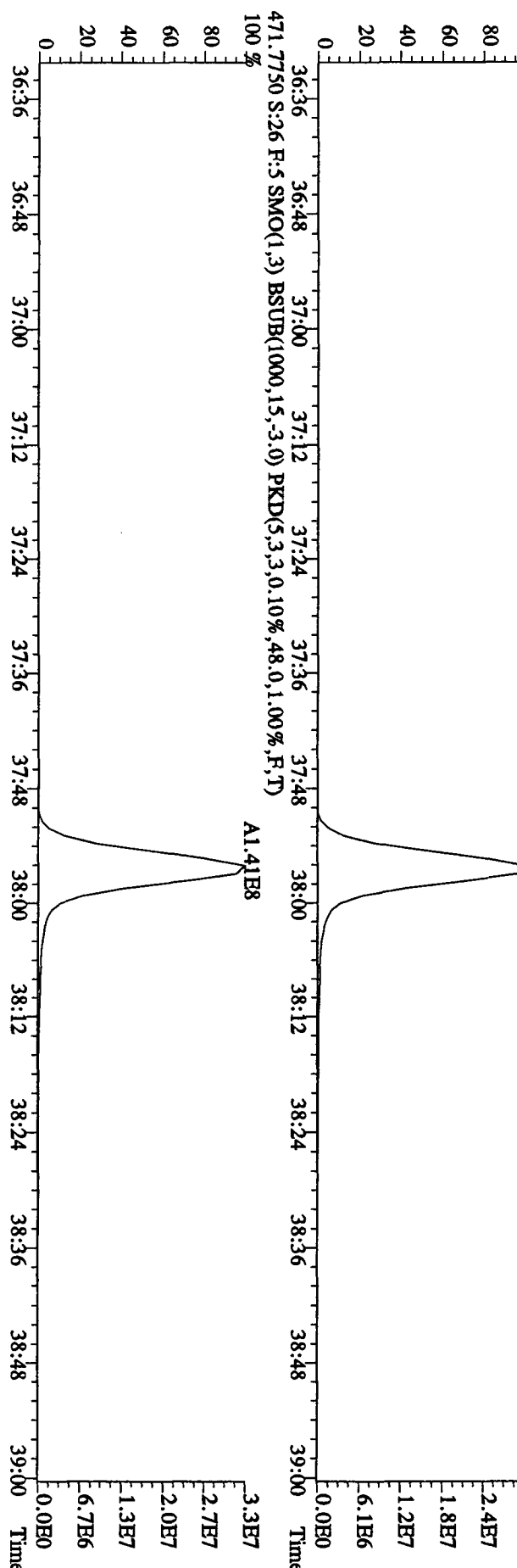
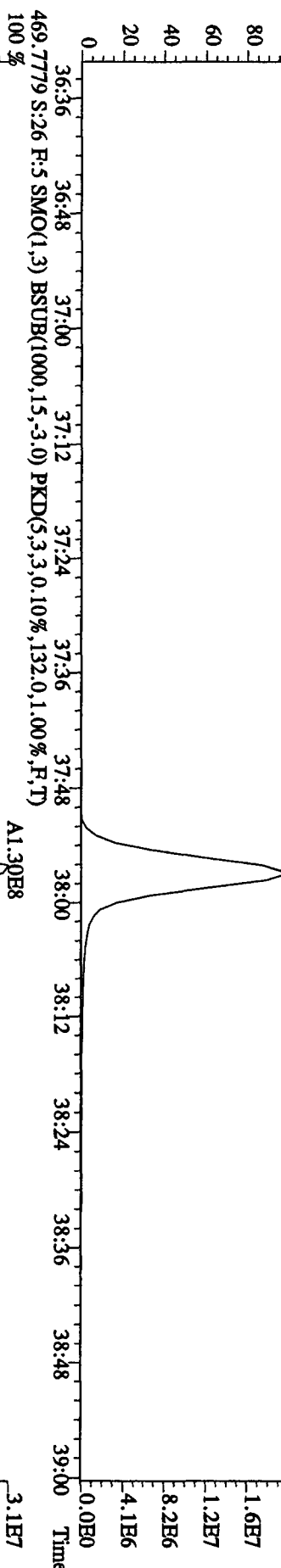
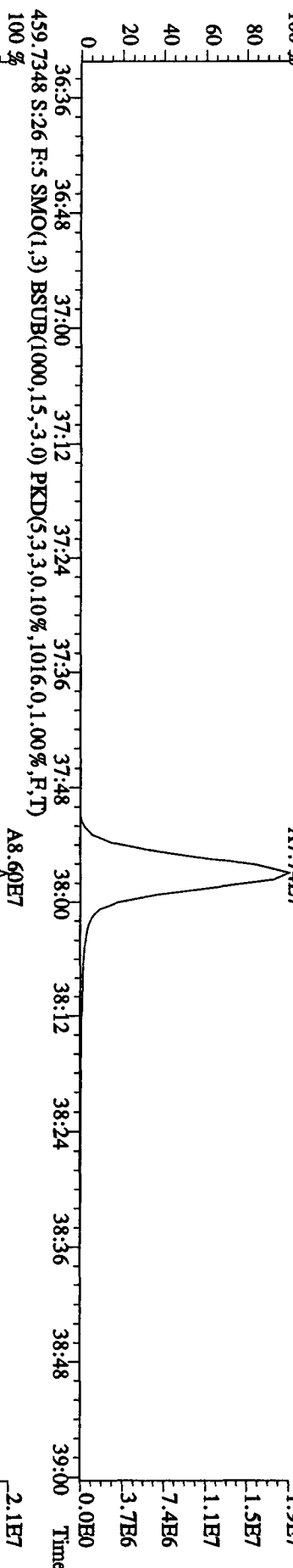


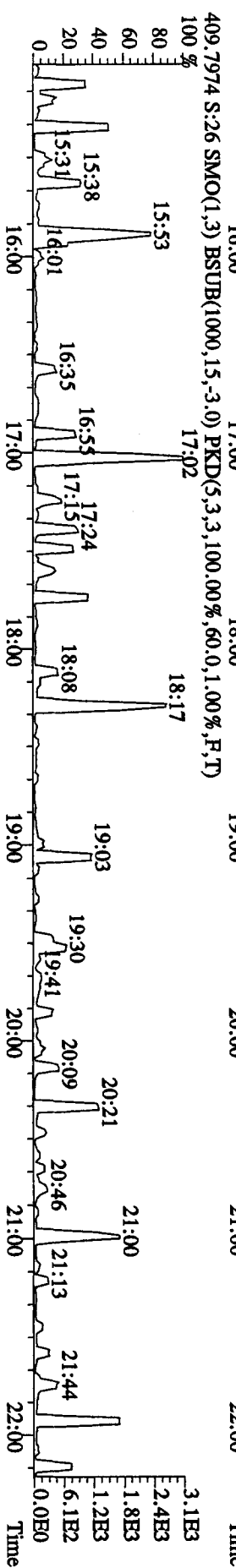
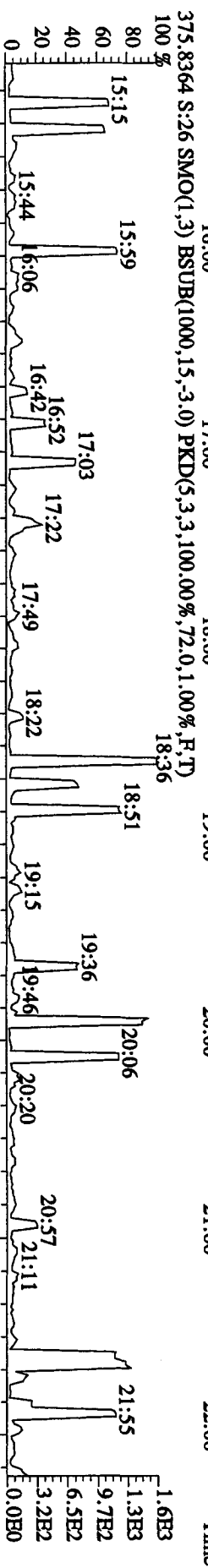
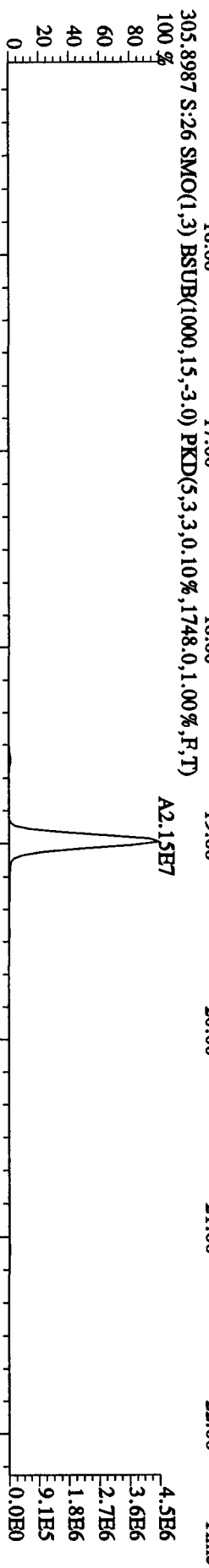
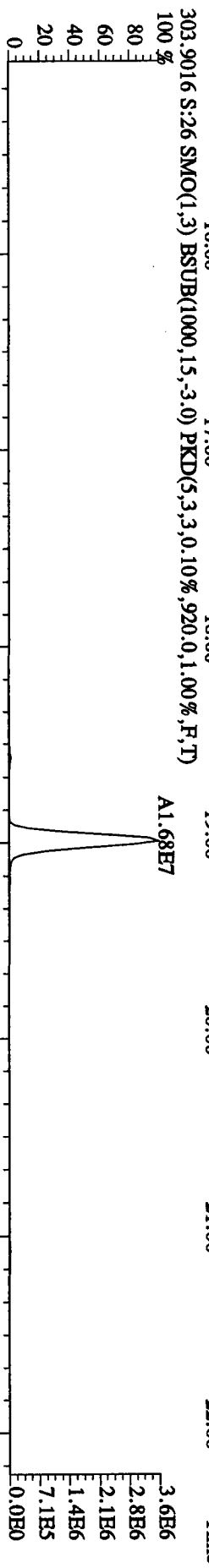
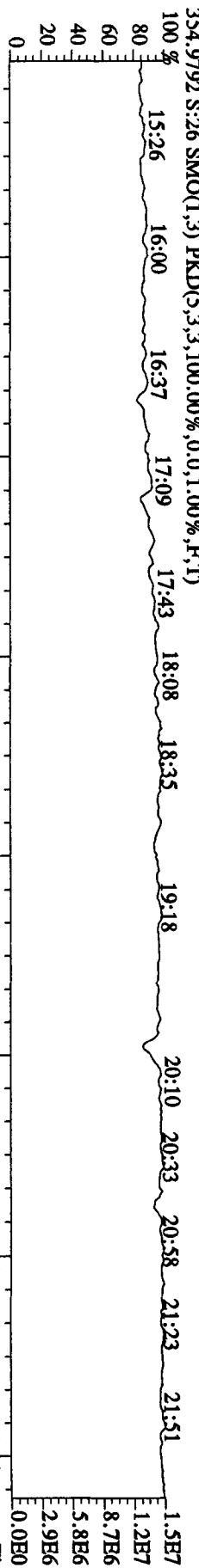
File:21AD10B4D5 #1-190 Acq:22-APR-2010 15:27:03 GC HI + Voltage SIR Autospec-Ultimate  
 Sample#26 Text:LX3LL-1-AD :G0D160000-252L Exp:DIOXINRES8290A  
 441.7428 S:26 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,848.0,1.00%,F,T)

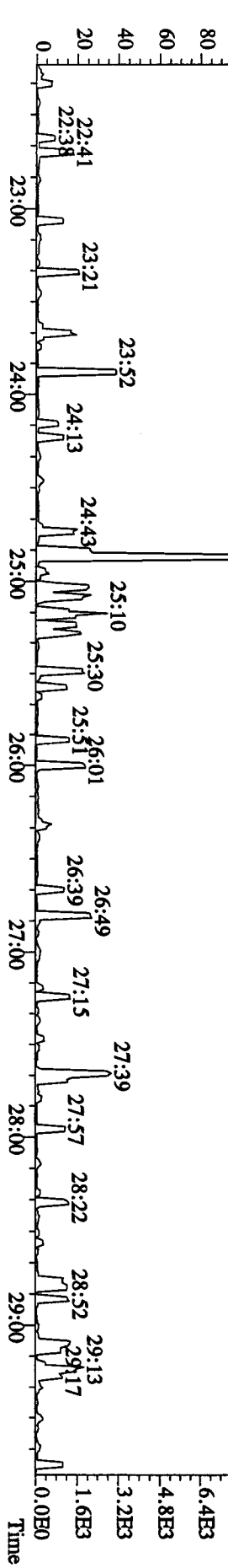
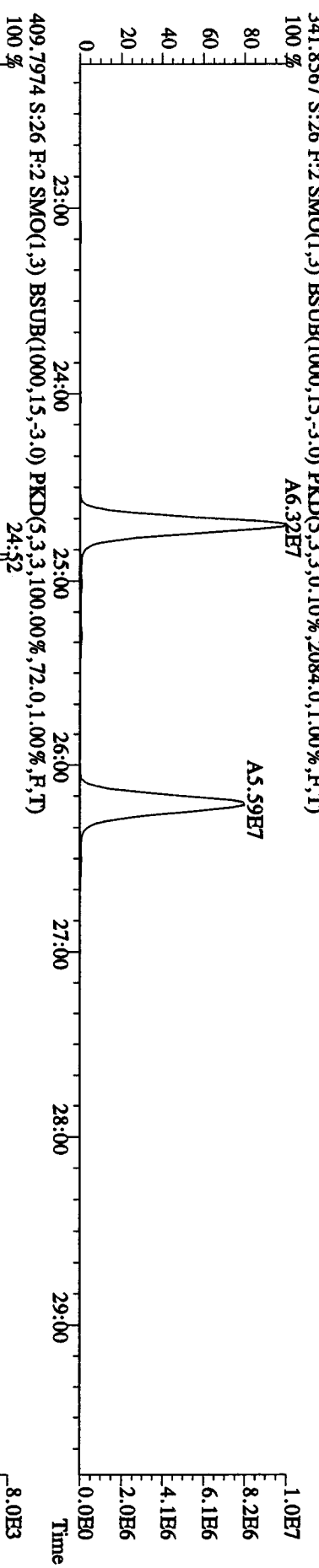
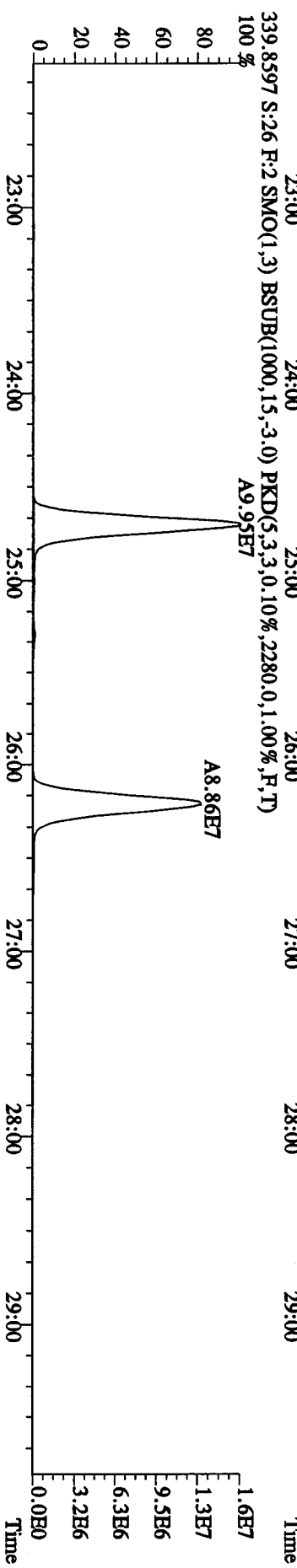
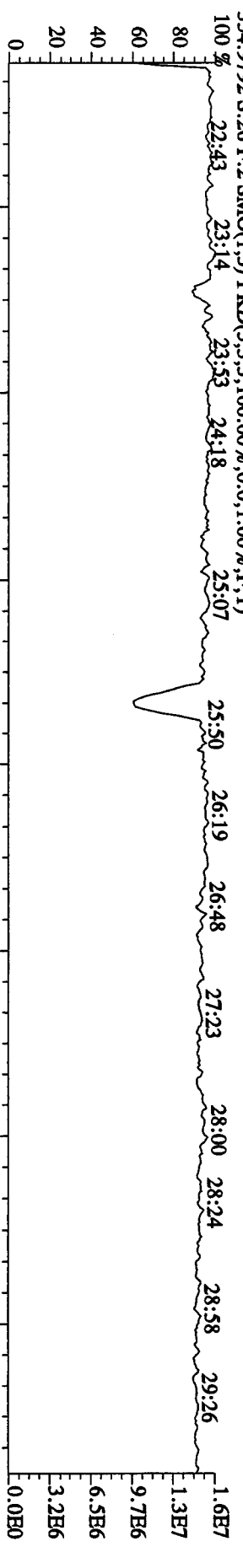




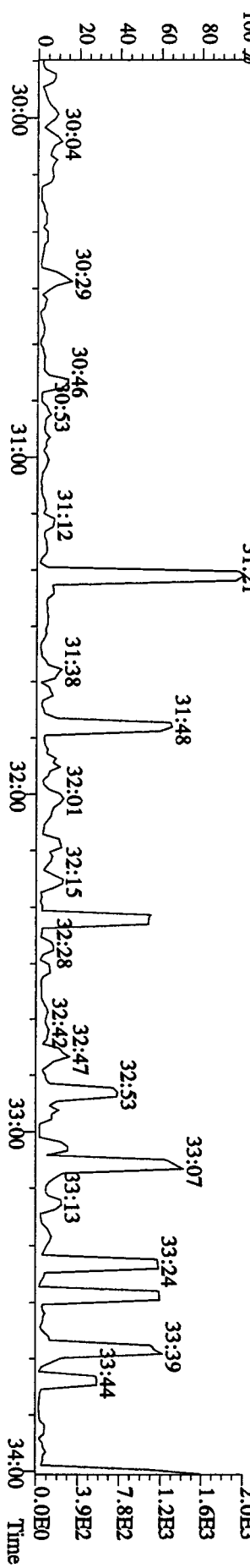
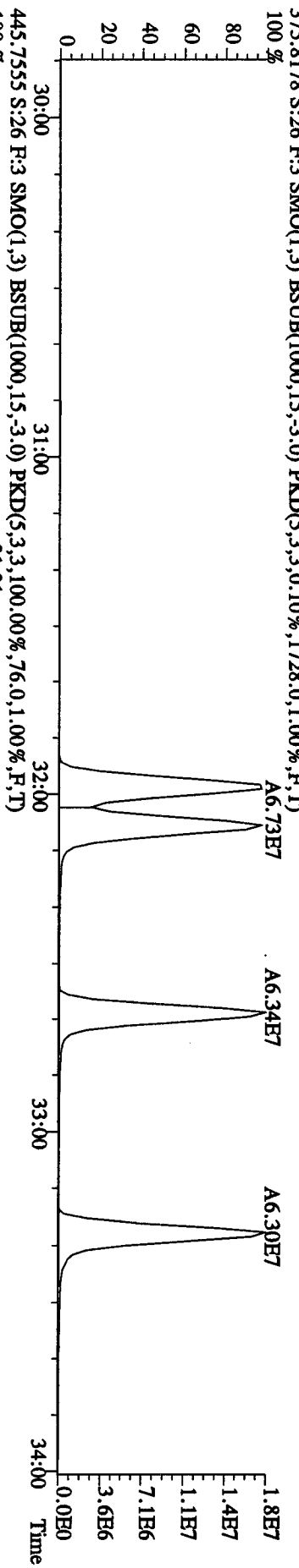
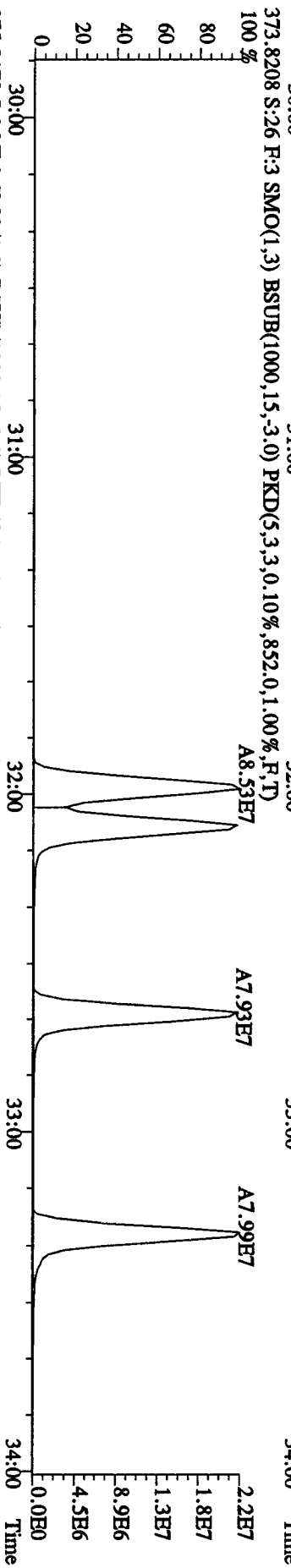
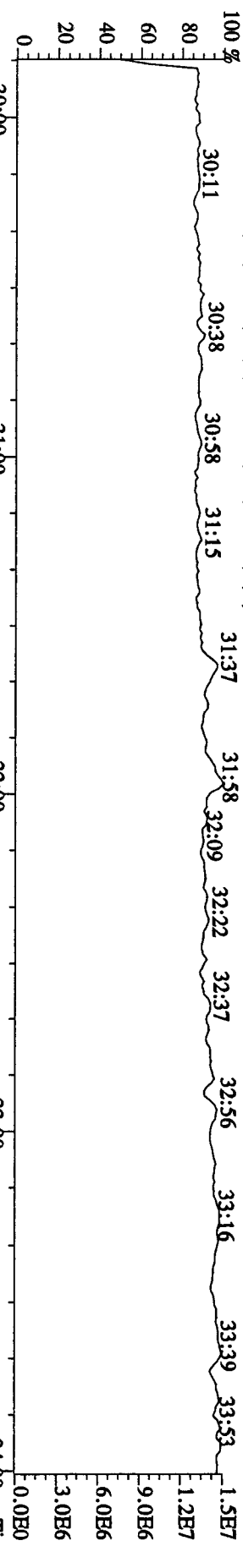
File:21AD10B4D5 #1-190 Acq:22-APR-2010 15:27:03 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#26 Text:LX3LL-1-AD :GDD160000-252L Exp:DIOXINRES8290A  
 457.7377 S:26 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6496.0,1.00%,F,T)

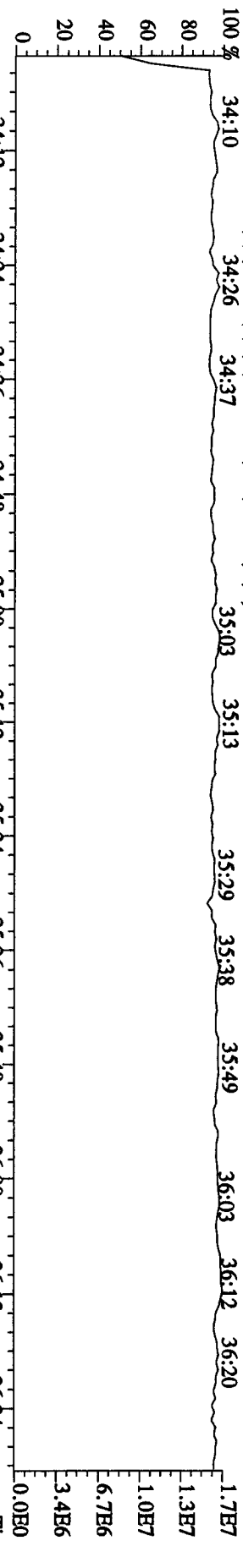




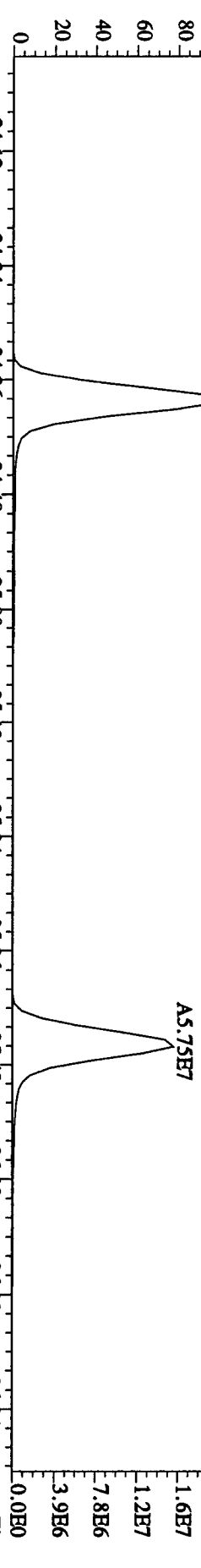


File:21AP10B4D5 #1-317 Acq:22-APR-2010 15:27:03 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#26 Text:LX31L-1-AD :GDD160000-252L Exp:DIOXINRES8290A  
 430.9728 S:26 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

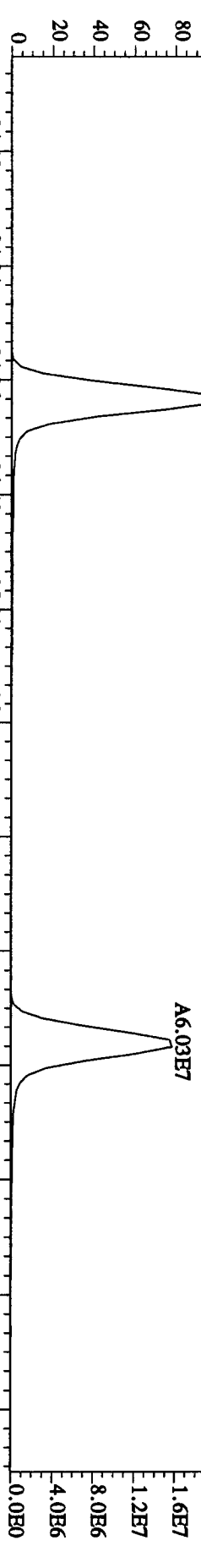




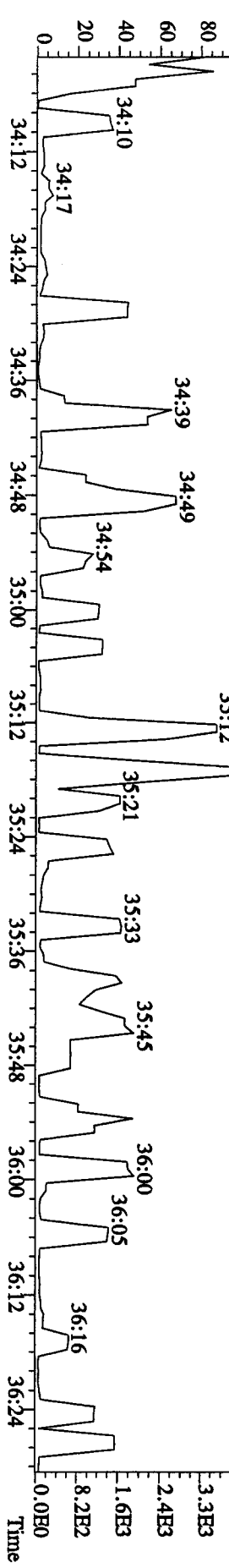
407.7818 S:26 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,12272.0,1.00%,F,T)  
A6.84E7



409.7789 S:26 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,13204.0,1.00%,F,T)  
A7.17E7

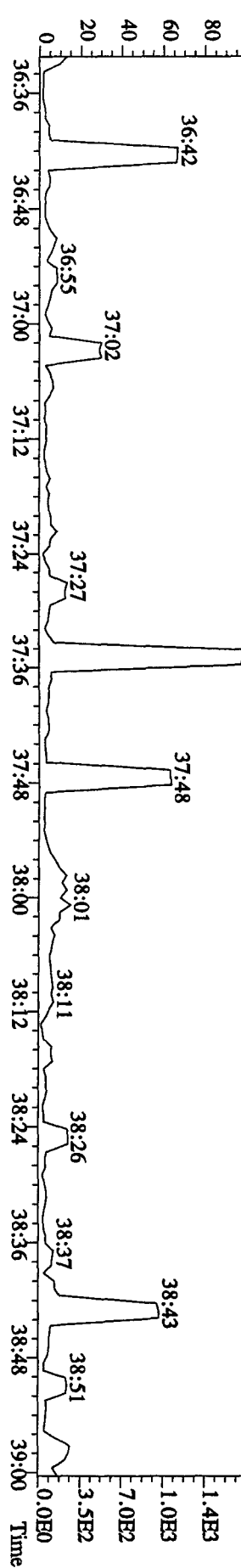
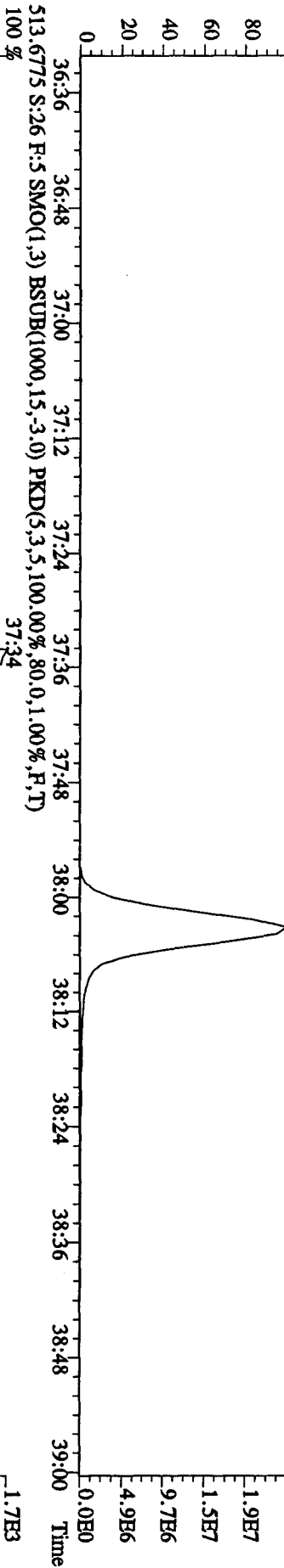
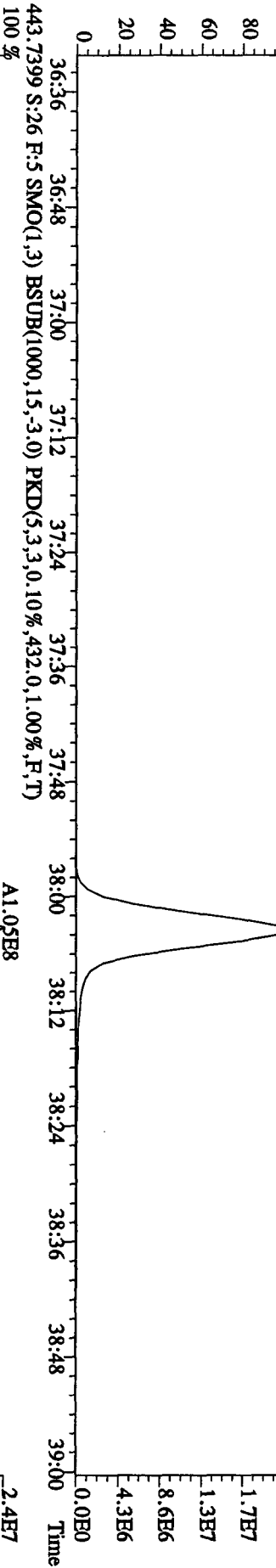
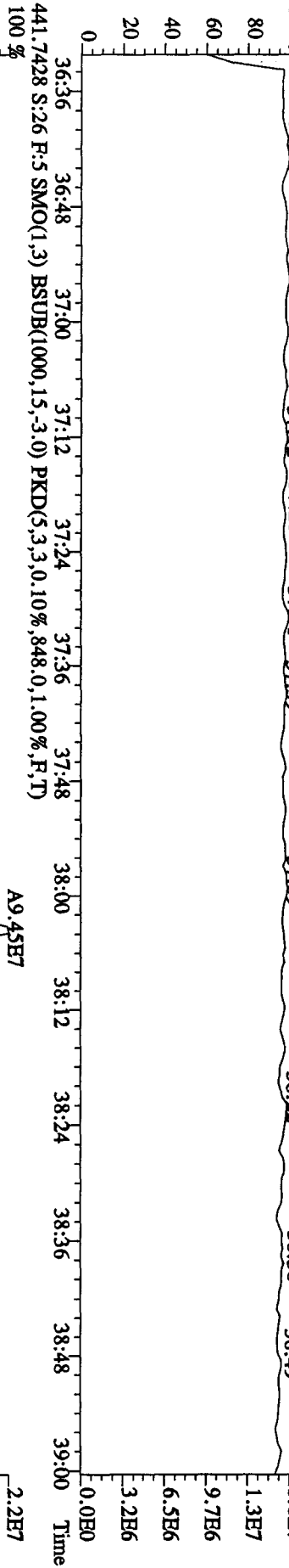


479.7165 S:26 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,100.0,1.00%,F,T)  
A6.03E7



4.1E3  
3.3E3  
2.4E3  
1.6E3  
8.2E2  
0.0E0

File: 21AP10B4D5 #1-190 Acq: 22-APR-2010 15:27:03 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#26 Text: LXL-1-AD :GOD160000-252L Exp: DIOXINRES8290A  
 442.9728 S:26 F:5 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)  
 100% 36:42 36:56 37:12 37:20 37:31 37:39 37:47 37:59 38:22 38:38 38:49



Run text: LX0W0-1-AA      Sample text: LX0W0-1-AA :GOD140559-1  
 Run #28 Filename: 21AP10B4D5 S: 27 I: 1      Results: 21AP10B4D58290ASY  
 Acquired: 22-APR-10 16:11:06      Processed: 23-APR-10 08:45:49  
 Run: 21AP10B4D5      Analyte: 8290AHRS      Cal: 8290A0412104D5 ✓  
 Factor 1:1600.000      Factor 2:20.000      Sample size: 1.06 L

*82004/23/10*

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	193792000	0.81 y	19:35	-	137.550	-	-	n
13C-2,3,7,8-TCDF	341726000	0.79 y	18:59	1.52	1094.944	0.403	58.0	n
2,3,7,8-TCDF	445589	0.78 y	19:01	0.95	<i>SB</i> 2.605 /	0.265	-	n
Total TCDF	1602766	1.49 n	16:37	0.95	<del>9.370</del>	0.265	-	n
13C-2,3,7,8-TCDD	251494000	0.80 y	19:47	0.95	1290.372	0.660	68.3	n
2,3,7,8-TCDD	92964	0.26 n	19:48	1.02	<i>SB</i> 0.684 /	0.252	-	n
Total TCDD	4099197	0.75 y	17:18	1.02	<del>30.149</del>	0.252	-	n
37Cl-2,3,7,8-TCDD	277296000	1.00 y	19:48	2.26	597.522	0.110	79.1	n
13C-1,2,3,7,8-PeCDF	296591000	1.57 y	24:41	1.05	1375.950	0.536	72.9	n
1,2,3,7,8-PeCDF	201357	1.51 y	24:41	1.04	<i>SB</i> 1.227 /	0.316	-	n
2,3,4,7,8-PeCDF	155157	2.24 n	26:13	0.98	<i>SB</i> 1.006 /	0.336	-	n
Total F2 PeCDF	1074924	1.37 y	23:12	1.01	<del>6.747</del>	0.326	-	n
Total F1 PeCDF	431239	0.18 n	16:43	1.01	2.710	0.216	-	n
13C-1,2,3,7,8-PeCDD	183329100	1.61 y	27:01	0.67	1332.359	0.533	70.5	n
1,2,3,7,8-PeCDD	213713	1.57 y	27:02	0.98	<i>SB</i> 2.242 /	0.409	-	n
Total PeCDD	1129090	1.21 n	23:23	0.98	<del>11.845</del>	0.409	-	n
13C-1,2,3,7,8,9-HxCDD	151798100	1.25 y	33:08	-	139.495	-	-	n
13C-1,2,3,4,7,8-HxCDF	209258800	0.53 y	31:59	1.02	1270.153	0.110	67.3	n
1,2,3,4,7,8-HxCDF	324782	1.22 y	32:00	1.21	<i>SB</i> 2.417 /	0.334	-	n
1,2,3,6,7,8-HxCDF	391014	1.22 y	32:07	1.34	2.628	0.301	-	n
2,3,4,6,7,8-HxCDF	233238	1.39 y	32:40	1.22	1.722	0.331	-	y
1,2,3,7,8,9-HxCDF	163415	1.26 y	33:18	1.09	1.350	0.370	-	y
Total HxCDF	5620760	1.24 y	30:38	1.22	<del>41.536</del>	0.332	-	y
13C-1,2,3,6,7,8-HxCDD	174561300	1.26 y	32:52	0.81	1345.475	0.218	71.2	n
1,2,3,4,7,8-HxCDD	175599	1.11 y	32:48	1.01	<i>SB</i> 1.887 /	0.360	-	y
1,2,3,6,7,8-HxCDD	787956	1.33 y	32:53	1.11	7.653	0.325	-	y
1,2,3,7,8,9-HxCDD	502816	1.18 y	33:09	1.21	4.499	0.300	-	y
Total HxCDD	4319825	1.39 y	31:26	1.11	<del>41.854</del>	0.326	-	y
13C-1,2,3,4,6,7,8-HpCDF	197294100	0.44 y	34:38	0.86	1422.811	2.858	75.3	n
1,2,3,4,6,7,8-HpCDF	3239170	0.97 y	34:39	1.31	<i>SB</i> 23.675 /	0.402	-	n
1,2,3,4,7,8,9-HpCDF	234682	1.08 y	35:46	1.03	2.190	0.513	-	n
Total HpCDF	7611027	0.99 y	34:30	1.17	<del>59.782</del>	0.451	-	n
13C-1,2,3,4,6,7,8-HpCDD	165293500	1.06 y	35:27	0.70	1474.187	1.035	78.1	n
1,2,3,4,6,7,8-HpCDD	9502480	1.05 y	35:28	1.07	<i>B</i> 101.293 /	0.702	-	n
Total HpCDD	17970568	2.51 n	34:38	1.07	<del>191.560</del>	0.702	-	n
13C-OCDD	249216000	0.91 y	37:57	0.53	2917.446	0.039	77.2	n
OCDF	2151230	0.89 y	38:04	1.45	<i>SB</i> 22.558 /	0.363	-	n

OCDD 28058900 0.88 y 37:58 1.17

③ 364.642 ✓

0.698

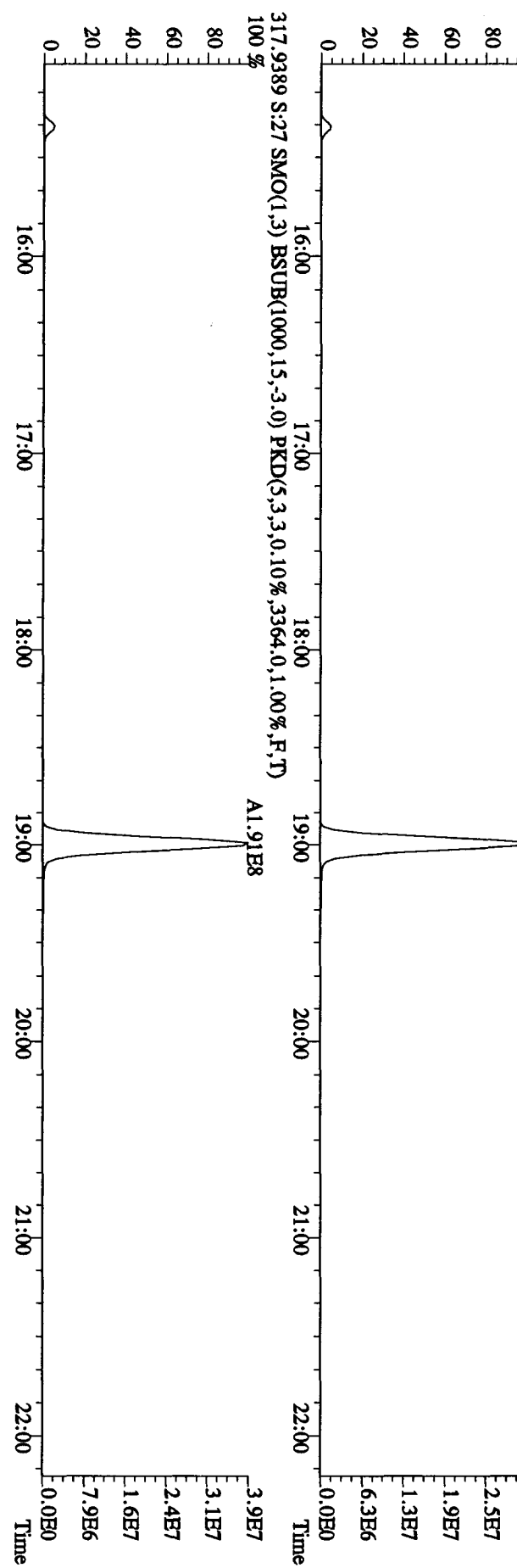
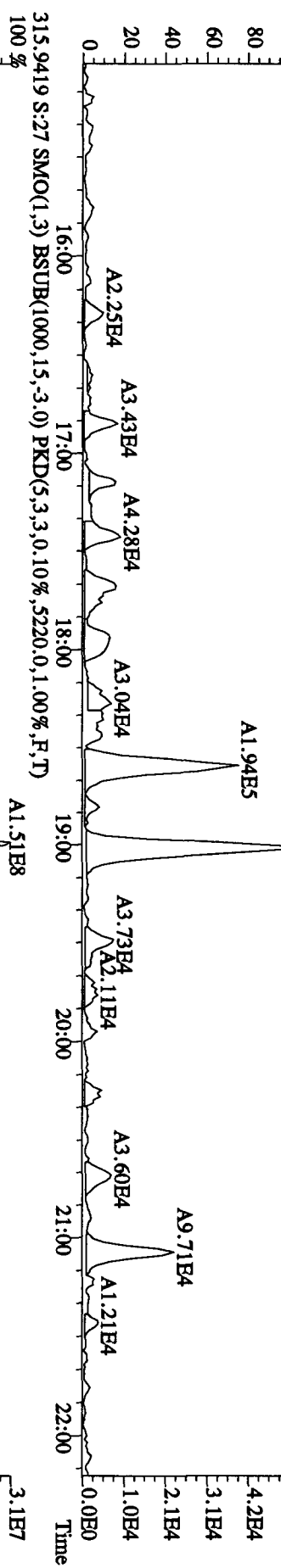
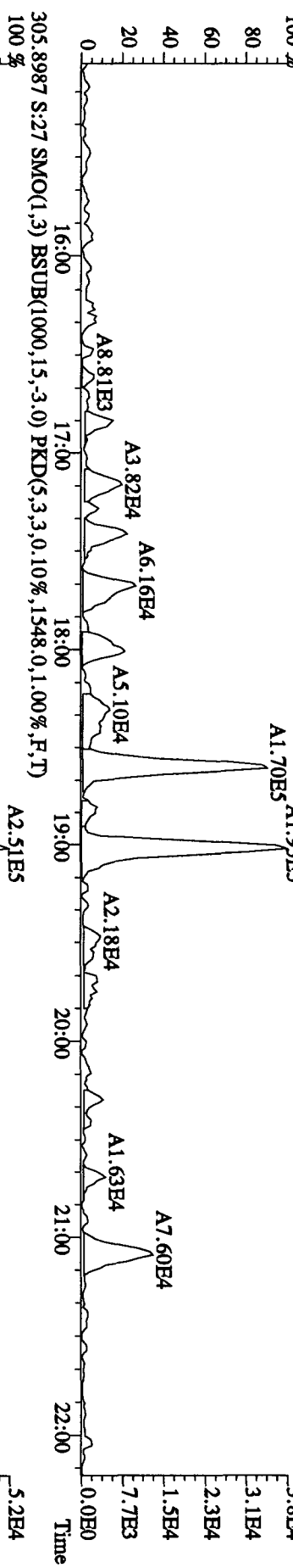
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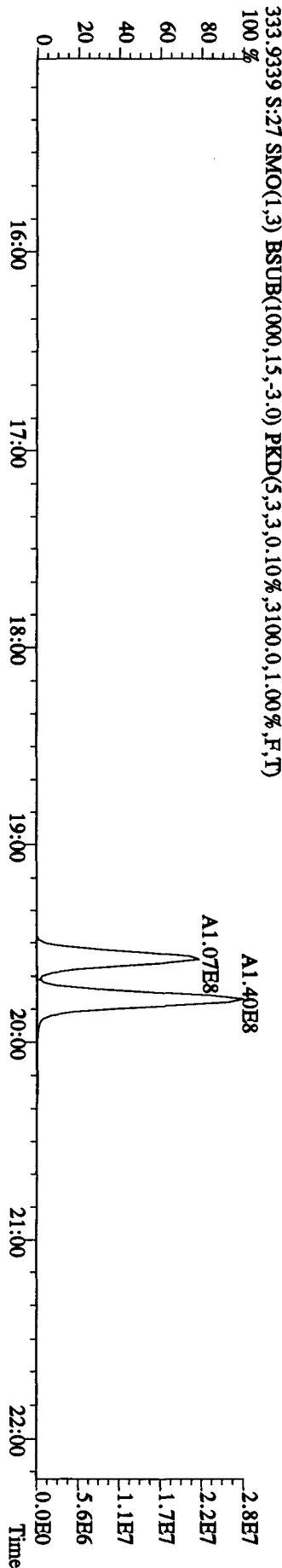
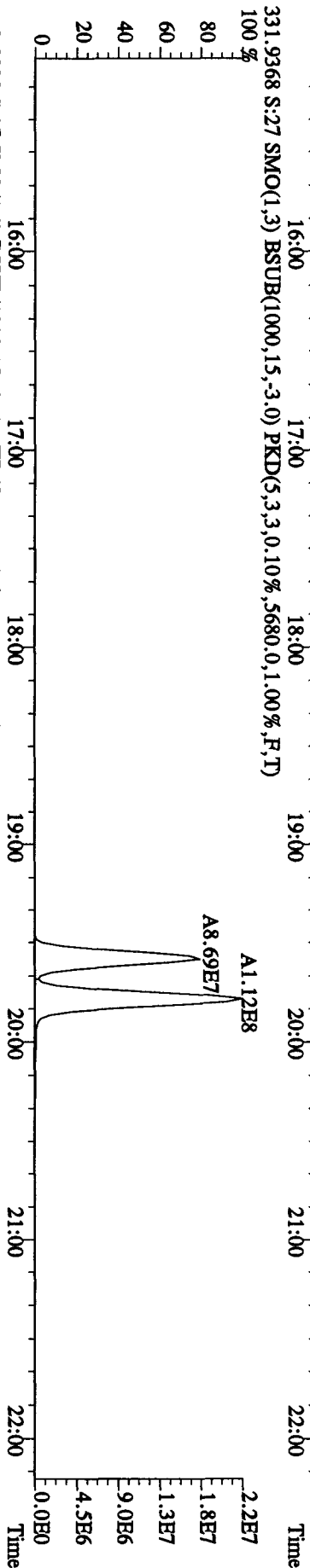
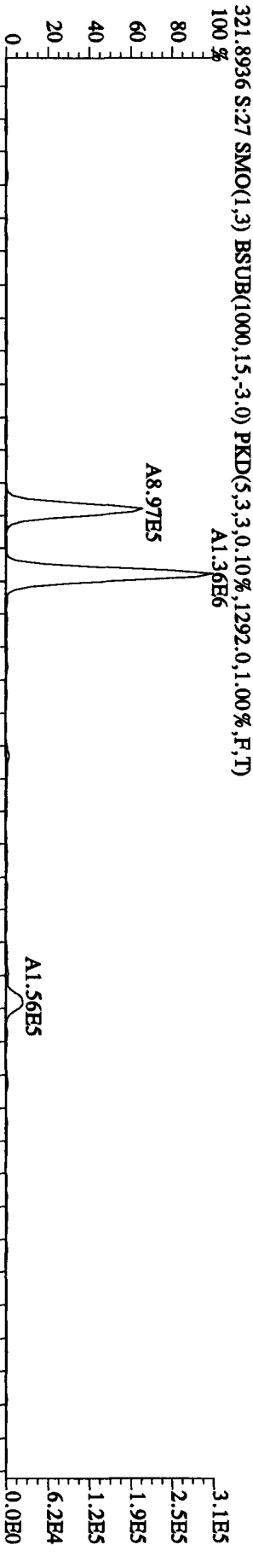
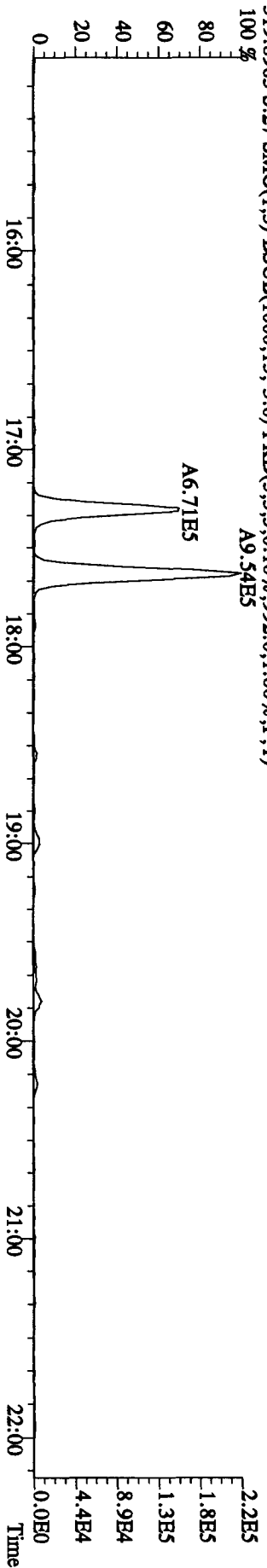
Run text: LX0W0-1-AA Sample text: LX0W0-1-AA :G0D140559-1  
 Run #28 Filename: 21AP10B4D5 S: 27 I: 1 Results: 21AP10B4D58290A  
 Acquired: 22-APR-10 16:11:06 Processed: 23-APR-10 08:45:49  
 Run: 21AP10B4D5 Analyte: 8290AHRS Cal: 8290A0412104D5  
 Sample size: 1.06 L

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	193792000	0.81 y	19:35	-	137.5499	-	-	n
13C-2,3,7,8-TCDF	341726000	0.79 y	18:59	1.52	1094.9440	0.4028	58.0	n
2,3,7,8-TCDF	445589	0.78 y	19:01	0.95	<i>SB</i> 2.6050	0.2652	-	n
Total TCDF	1602766	1.49 n	16:37	0.95	<del>9.3702</del>	0.2652	-	n
13C-2,3,7,8-TCDD	251494000	0.80 y	19:47	0.95	1290.3724	0.6597	68.3	n
2,3,7,8-TCDD	92964	0.26 n	19:48	1.02	<i>SB</i> 0.6837	0.2520	-	n
Total TCDD	4099197	0.75 y	17:18	1.02	<del>30.1489</del>	0.2520	-	n
37Cl-2,3,7,8-TCDD	277296000	1.00 y	19:48	2.26	597.5219	0.1101	79.1	n
13C-1,2,3,7,8-PeCDF	296591000	1.57 y	24:41	1.05	1375.9496	0.5364	72.9	n
1,2,3,7,8-PeCDF	201357	1.51 y	24:41	1.04	<i>SB</i> 1.2272	0.3160	-	n
2,3,4,7,8-PeCDF	155157	2.24 n	26:13	0.98	<i>SB</i> 1.0059	0.3362	-	n
Total F2 PeCDF	1074924	1.37 y	23:12	1.01	<del>6.7470</del>	0.3258	-	n
Total F1 PeCDF	431239	0.18 n	16:43	1.01	2.7095	0.2159	-	n
13C-1,2,3,7,8-PeCDD	183329100	1.61 y	27:01	0.67	1332.3595	0.5326	70.5	n
1,2,3,7,8-PeCDD	213713	1.57 y	27:02	0.98	<i>J</i> 2.2421	0.4088	-	n
Total PeCDD	1129090	1.21 n	23:23	0.98	<del>11.8435</del>	0.4088	-	n
13C-1,2,3,7,8,9-HxCDD	151798000	1.25 y	33:08	-	139.4948	-	-	n
13C-1,2,3,4,7,8-HxCDF	209258800	0.53 y	31:59	1.02	1270.1536	0.1104	67.3	n
1,2,3,4,7,8-HxCDF	324782	1.22 y	32:00	1.21	<i>SB</i> 2.4172	0.3337	-	n
1,2,3,6,7,8-HxCDF	391014	1.22 y	32:07	1.34	<i>SB</i> 2.6281	0.3014	-	n
2,3,4,6,7,8-HxCDF	327358	1.17 y	32:40	1.22	<i>SB</i> 2.4172	0.3311	-	n
1,2,3,7,8,9-HxCDF	179898	1.45 n	33:18	1.09	<i>SB</i> 1.4862	0.3705	-	n
Total HxCDF	5731363	1.24 y	30:38	1.22	<del>42.3668</del>	0.3324	-	n
13C-1,2,3,6,7,8-HxCDD	174561300	1.26 y	32:52	0.81	1345.4761	0.2182	71.2	n
1,2,3,4,7,8-HxCDD	966649	1.31 y	32:53	1.01	10.3880	0.3598	-	n
1,2,3,6,7,8-HxCDD	966649	1.31 y	32:53	1.11	9.3887	0.3252	-	n
1,2,3,7,8,9-HxCDD	504999	1.16 y	33:09	1.21	4.5190	0.2996	-	n
Total HxCDD	4325102	1.39 y	31:26	1.11	41.7223	0.3264	-	n
13C-1,2,3,4,6,7,8-HpCDF	197294100	0.44 y	34:38	0.86	1422.8123	2.8576	75.3	n
1,2,3,4,6,7,8-HpCDF	3239170	0.97 y	34:39	1.31	23.6749	0.4021	-	n
1,2,3,4,7,8,9-HpCDF	234682	1.08 y	35:46	1.03	2.1903	0.5135	-	n
Total HpCDF	7611027	0.99 y	34:30	1.17	59.7816	0.4510	-	n
13C-1,2,3,4,6,7,8-HpCDD	165293500	1.06 y	35:27	0.70	1474.1876	1.0349	78.1	n
1,2,3,4,6,7,8-HpCDD	9502480	1.05 y	35:28	1.07	101.2931	0.7021	-	n
Total HpCDD	17970568	2.51 n	34:38	1.07	191.5599	0.7021	-	n
13C-OCDD	249216000	0.91 y	37:57	0.53	2917.4477	0.0393	77.2	n
OCDF	2151230	0.89 y	38:04	1.45	22.5580	0.3626	-	n
OCDD	28058900	0.88 y	37:58	1.17	364.6422	0.6979	-	n

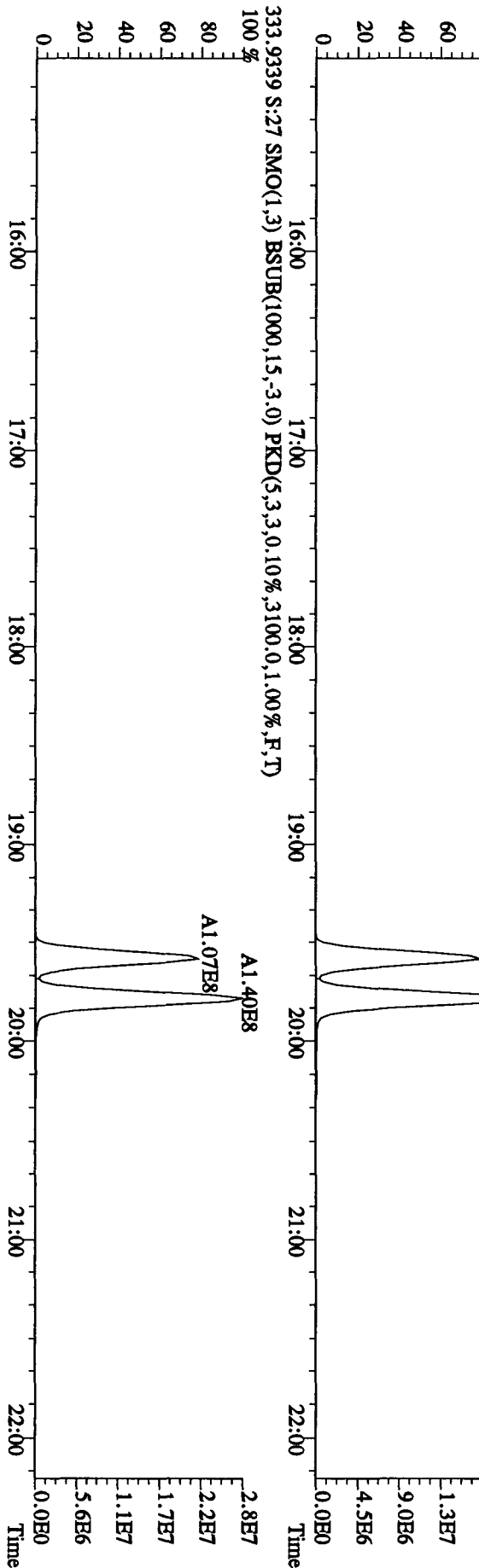
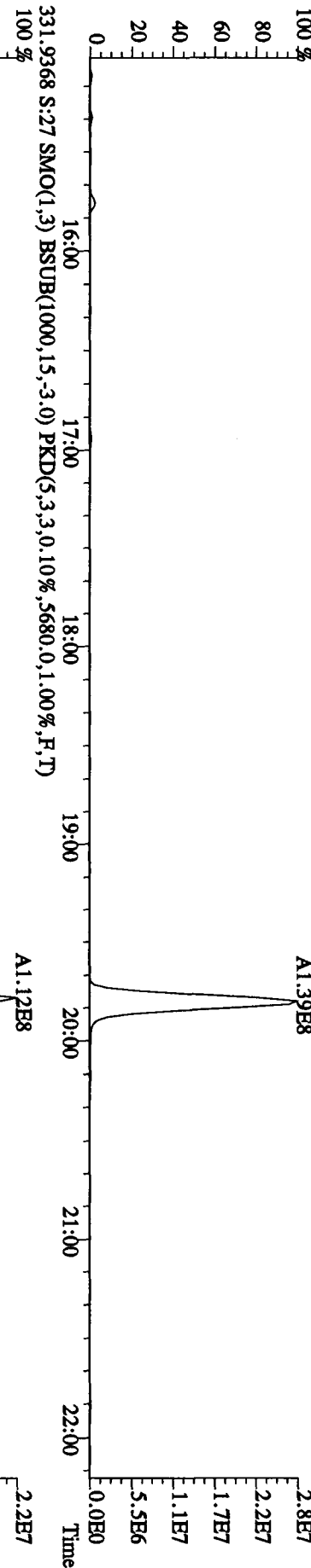
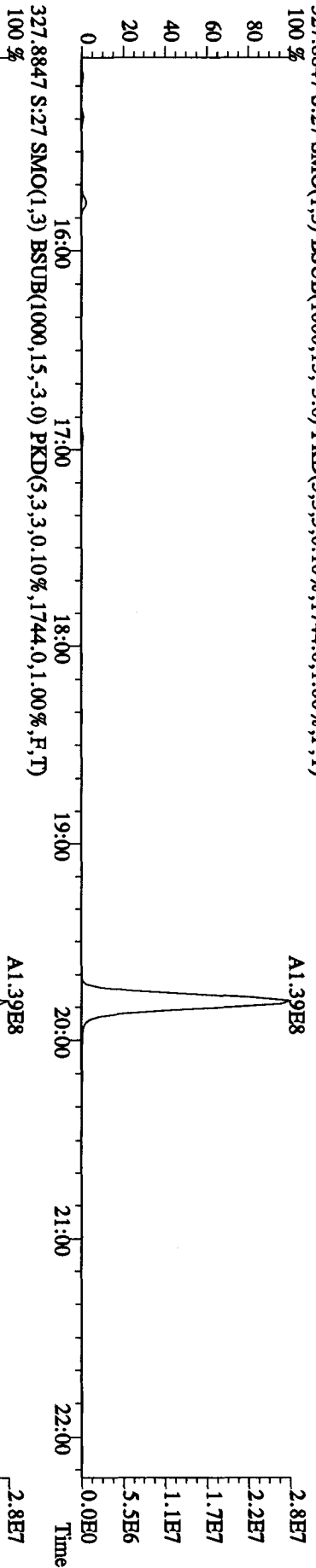
File: 21AP10B4D5 #1-434 Acq: 22-APR-2010 16:11:06 GC EI + Voltage SIR Autospec-UltimaB  
 Sample#27 Text: LX0W0-1-AA :G0D140559-1 Exp: DIOXINRES8290A  
 303.9016 S: 27 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1576,0,1.00%,F,T)



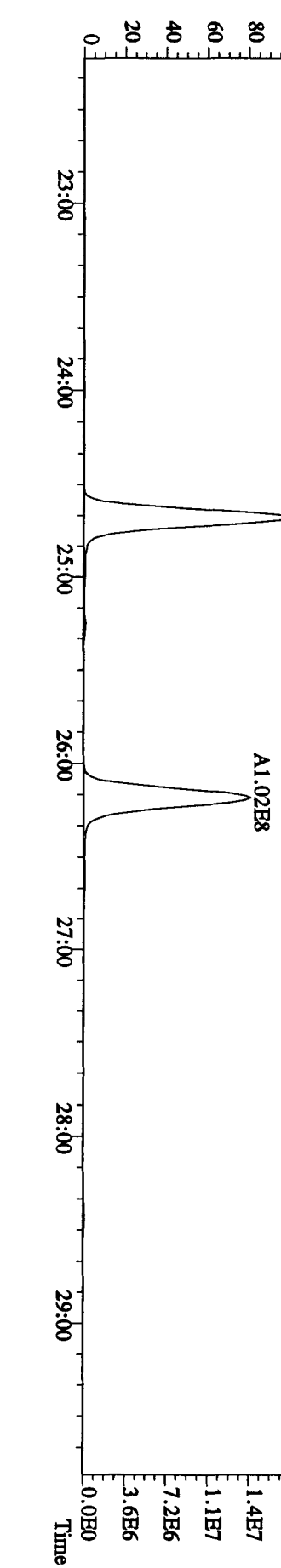
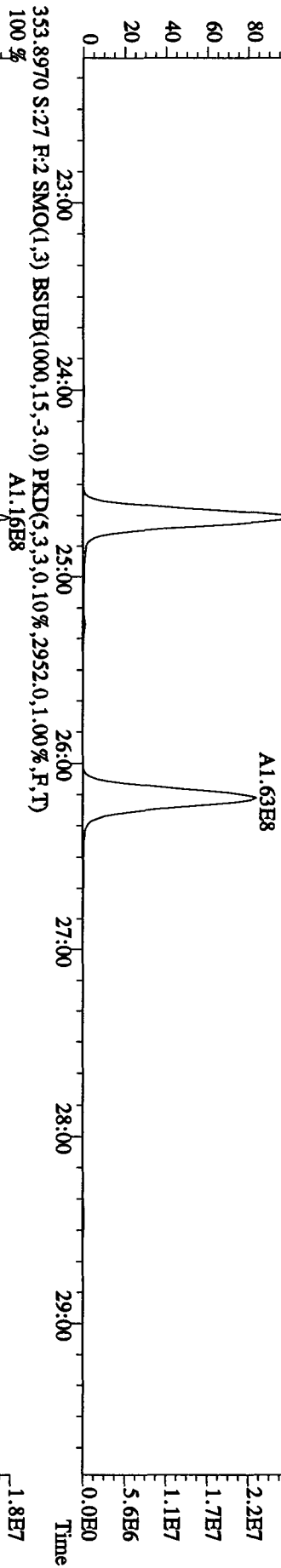
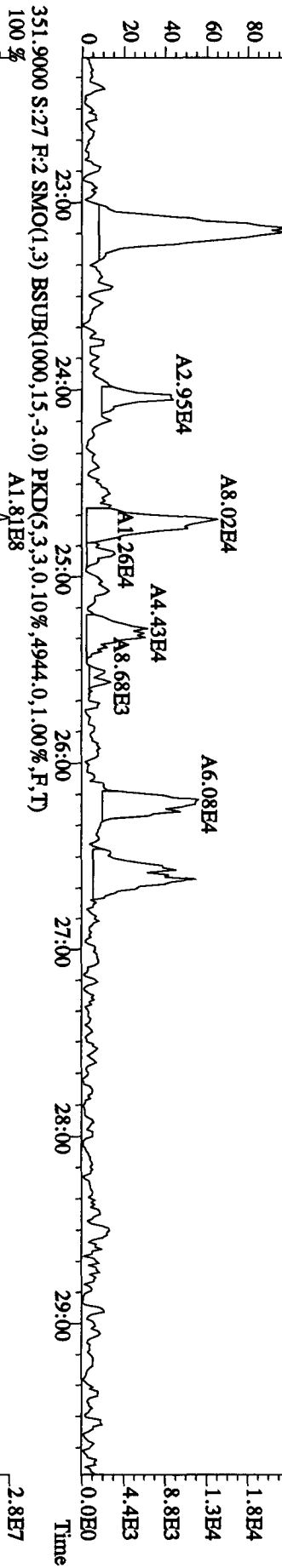
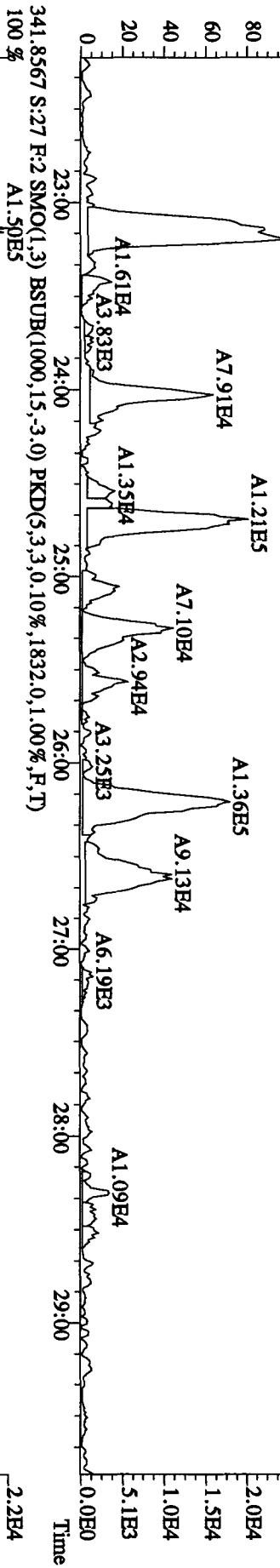
File:21AP10B4D5 #1-434 Acq:22-APR-2010 16:11:06 GC EI + Voltage SIR Autospec-UltimaE  
 Sample#27 Text:LX0W0-1-AA :G0D140559-1 Exp:DIOXINRES8290A  
 319.8965 S:27 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,992.0,1.00%,F,T)  
 100%



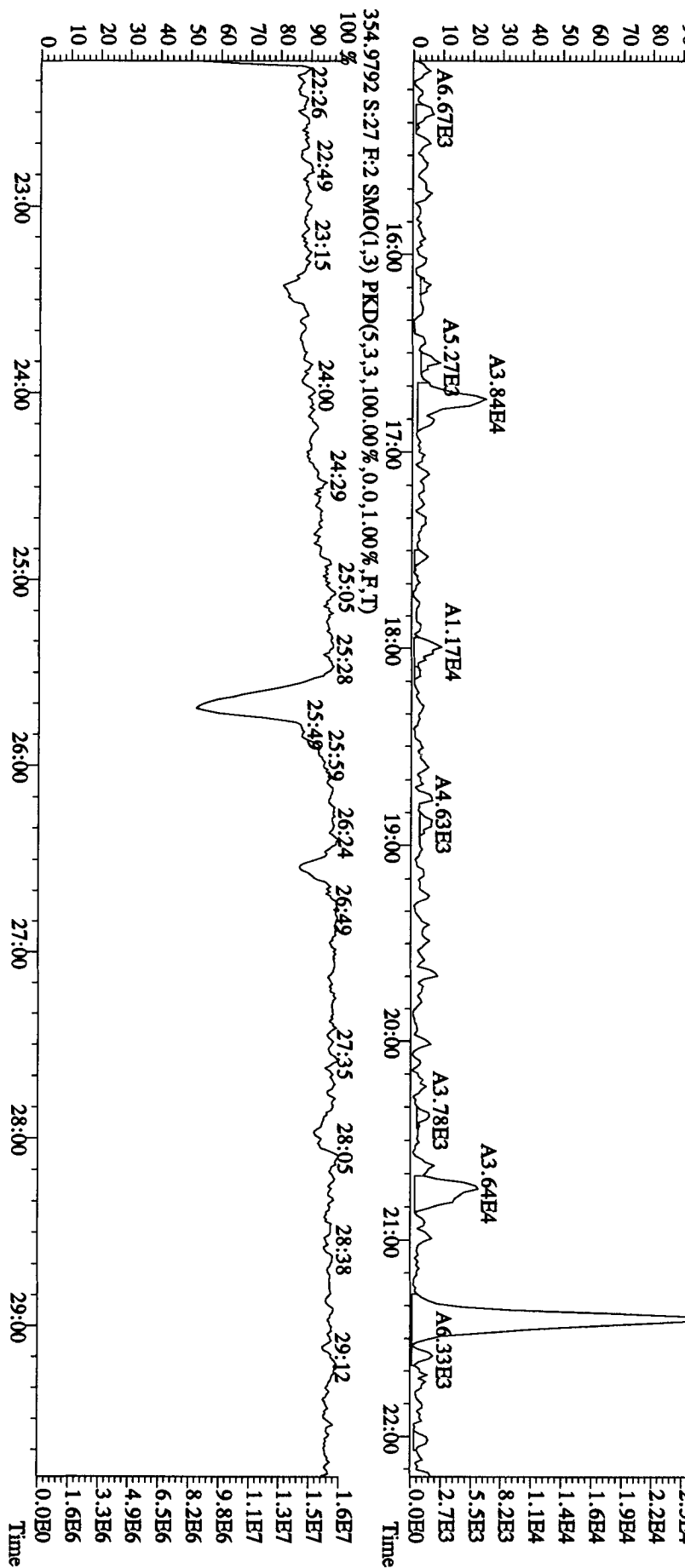
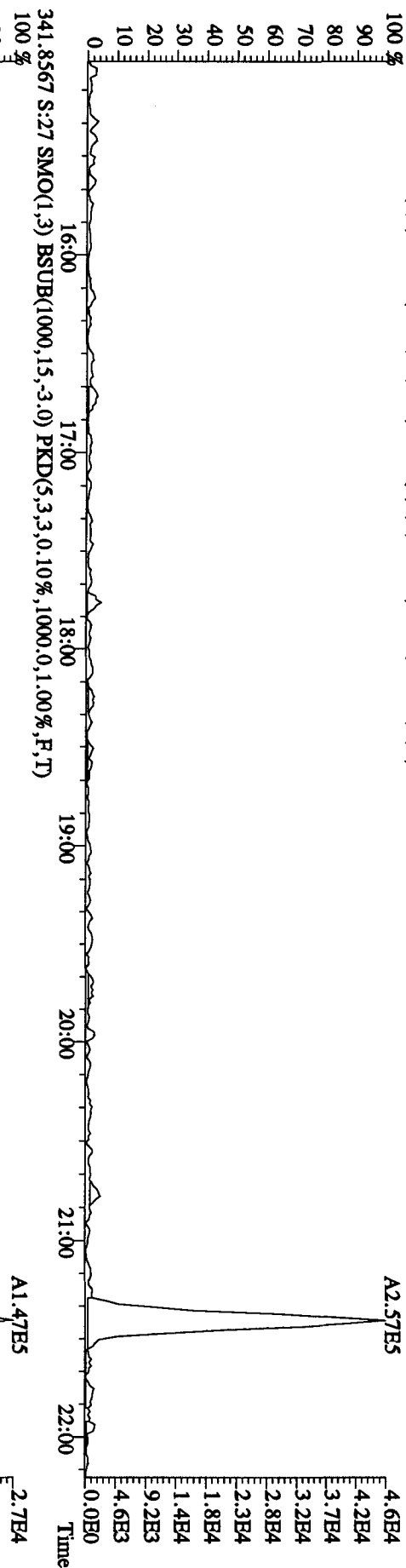
File:21AP10B4D5 #1-434 Acq:22-APR-2010 16:11:06 GC EI + Voltage SIR Autospec-UltimaE  
Sample#27 Text:LX0W0-1-AA :G0D140559-1 Exp:DIOXINRES8290A  
327.8847 S:27 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1744,0,1,00%,F,T)



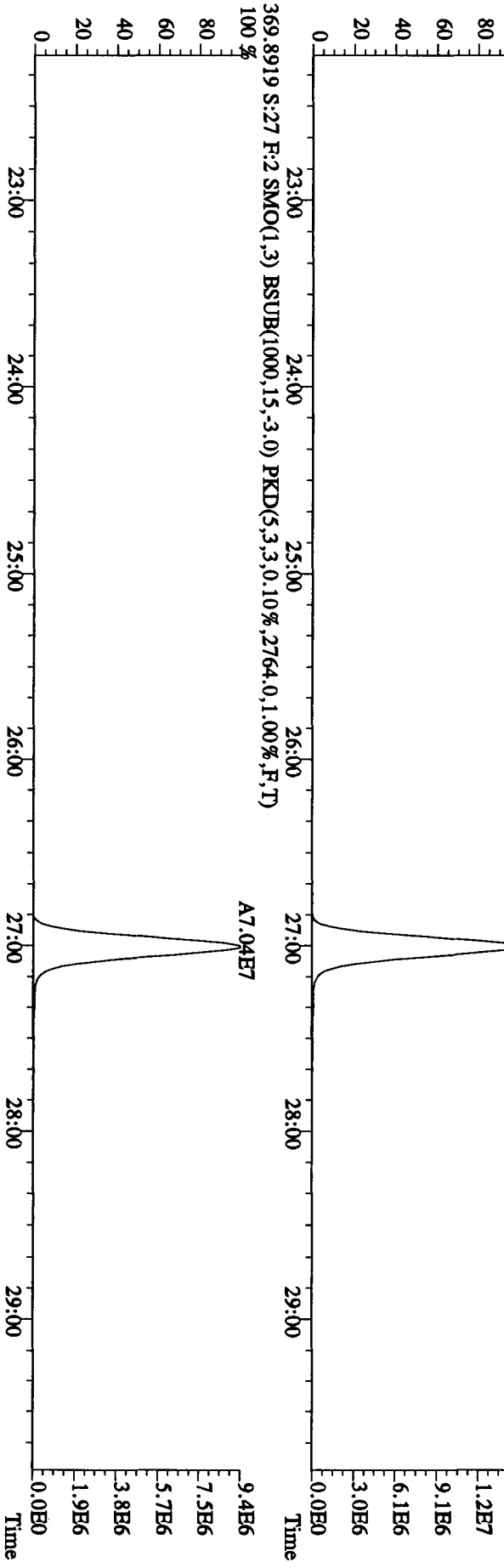
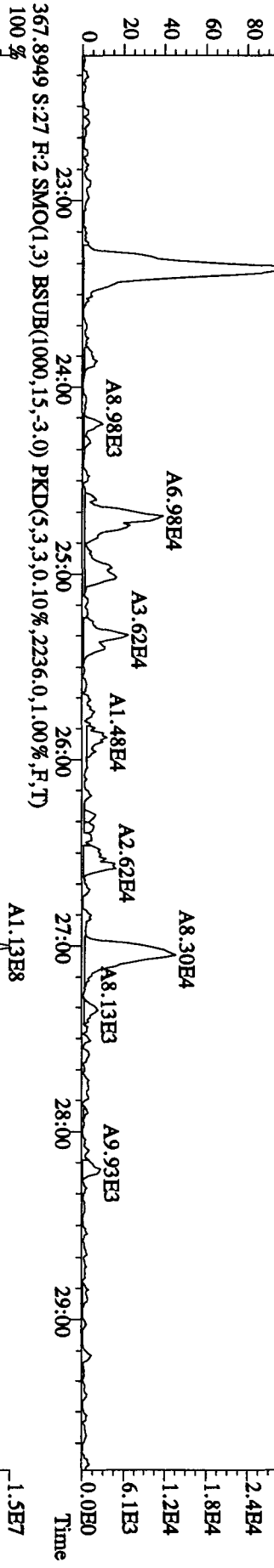
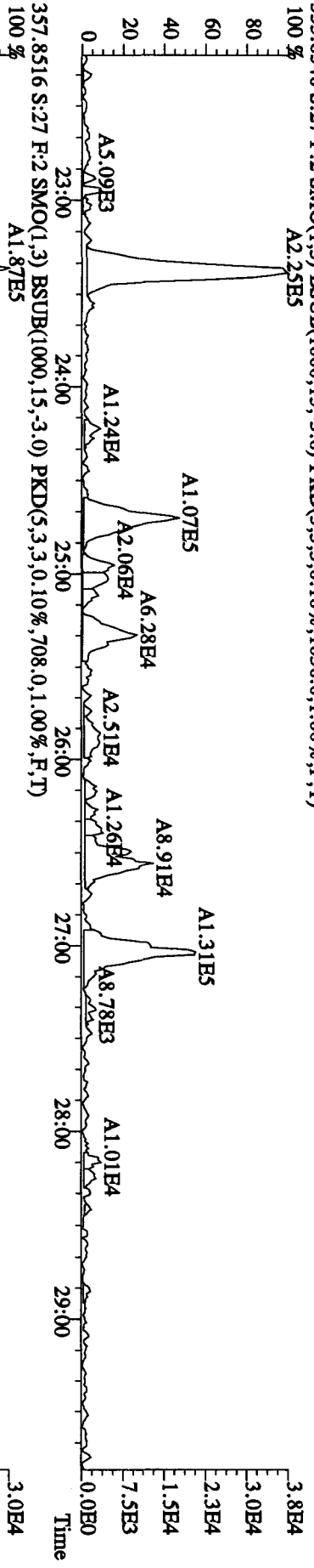
File:21AP10B4D5 #1-605 Acq:22-APR-2010 16:11:06 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#27 Text:LX0W0-1-AA :G0D140559-1 Exp:DIOXINRES8290A  
 339.8597 S:27 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,848,0.1,00%,F,T)  
 100% A2.05E5



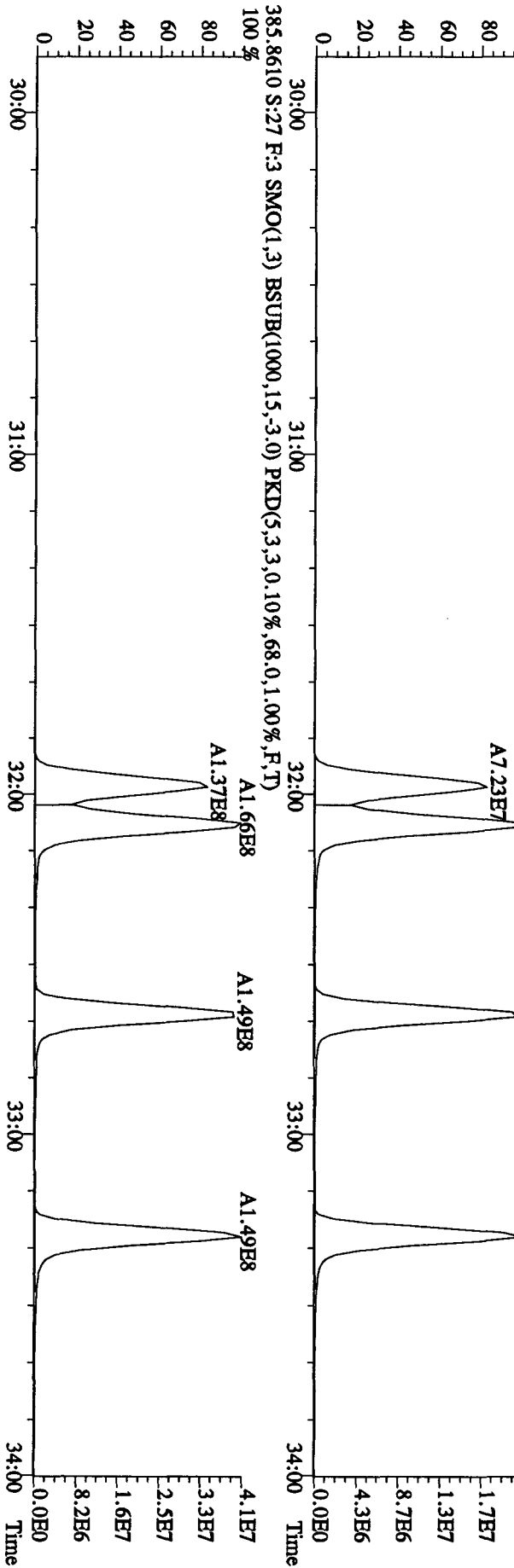
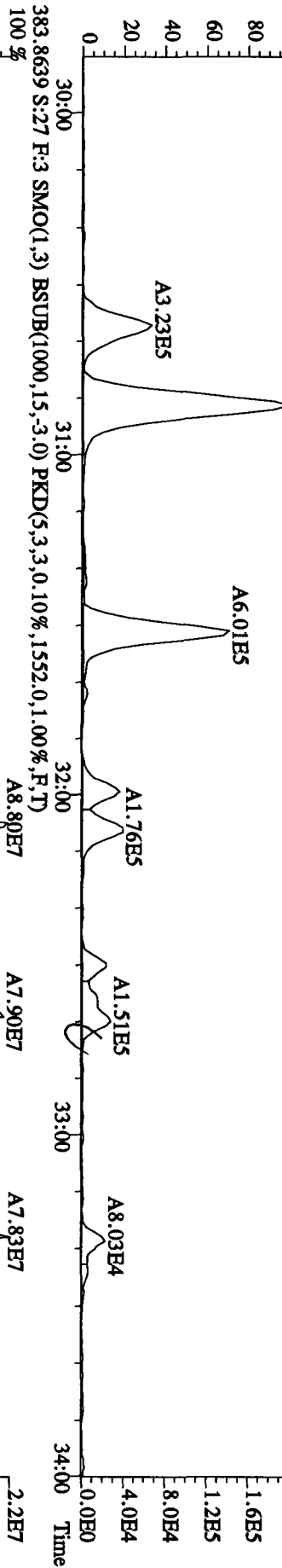
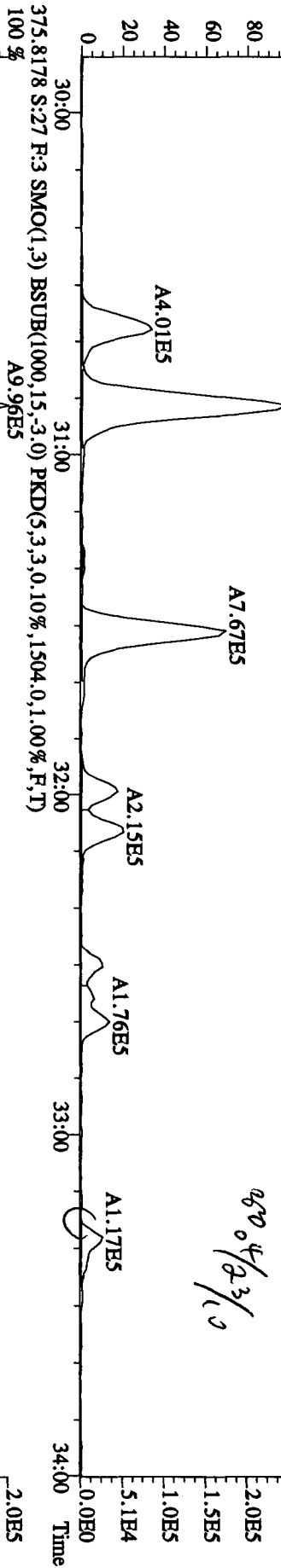
File:21ADP10B4D5 #1-434 Acq:22-APR-2010 16:11:06 GC EI + Voltage SIR Autospec-Ultimate  
 Sample#27 Text:LXW0-1-AA :G0D140559-1 Exp:DIOXINRES8290A  
 339.8597 S:27 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,776,0,1.00%,F,T)



File: 21AP10B4D5 #1-605 Acq: 22-APR-2010 16:11:06 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#27 Text: LXOW0-1-AA :G0D140559-1 Exp: DIOXINRES8290A  
 355.8546 S:27 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1036,0,1,00%,F,T)  
 100%



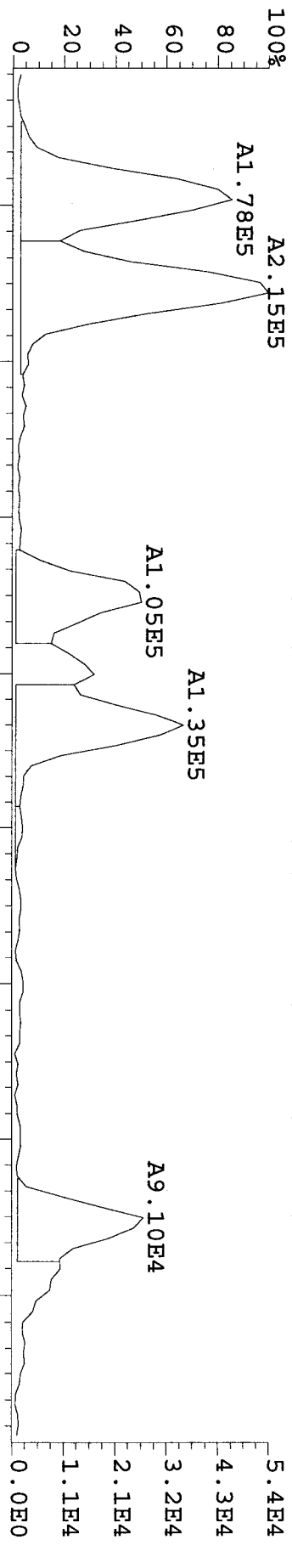
File: 21AP10B4D5 #1-316 Acq: 22-APR-2010 16:11:06 GC: EI+ Voltage: SIR Autospec: Ultimate  
 Sample# 27 Text: LXOWO-1-AA : GOD140559-1 Exp: DIOXINRES8290A  
 373.8208 S: 27 F: 3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2212,0,1,00%,F,T)



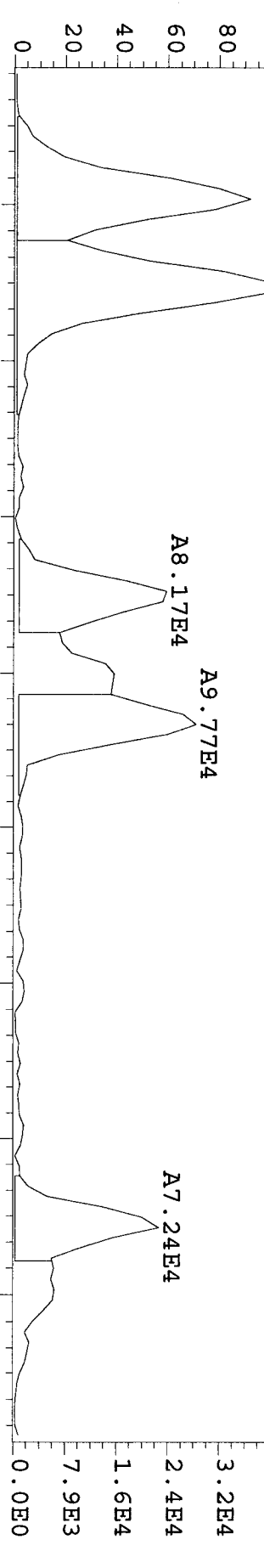
*Handwritten note:* 280 4/23/10



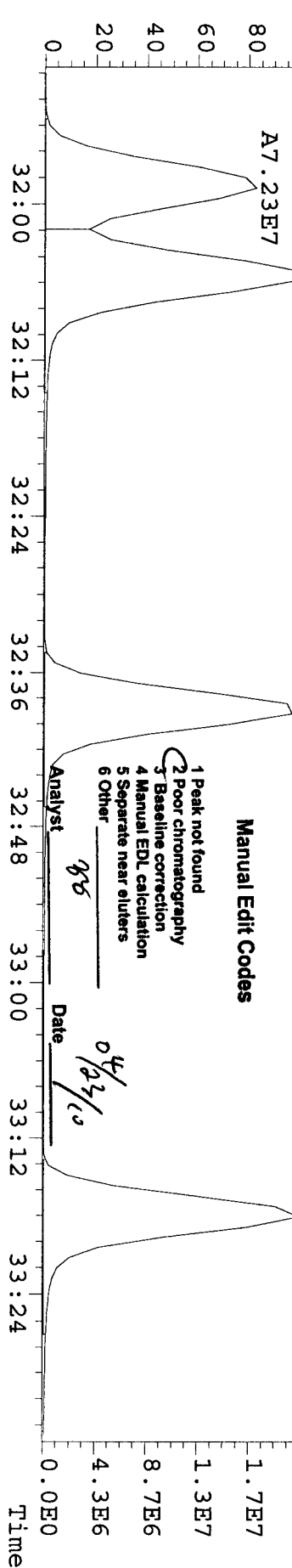
File: 21API0B4D5 #1-316 Acq: 22-APR-2010 16:11:06 GC E1+ Voltage SIR Autospec-Ultimate  
 Sample#27 Text: LX0W0-1-AA : GOD140559-1 Exp: DIOXINRES8290A  
 373.8208 S:27 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2212.0,1.00%,F,T)



375.8178 S:27 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1504.0,1.00%,F,T)



383.8639 S:27 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1552.0,1.00%,F,T)



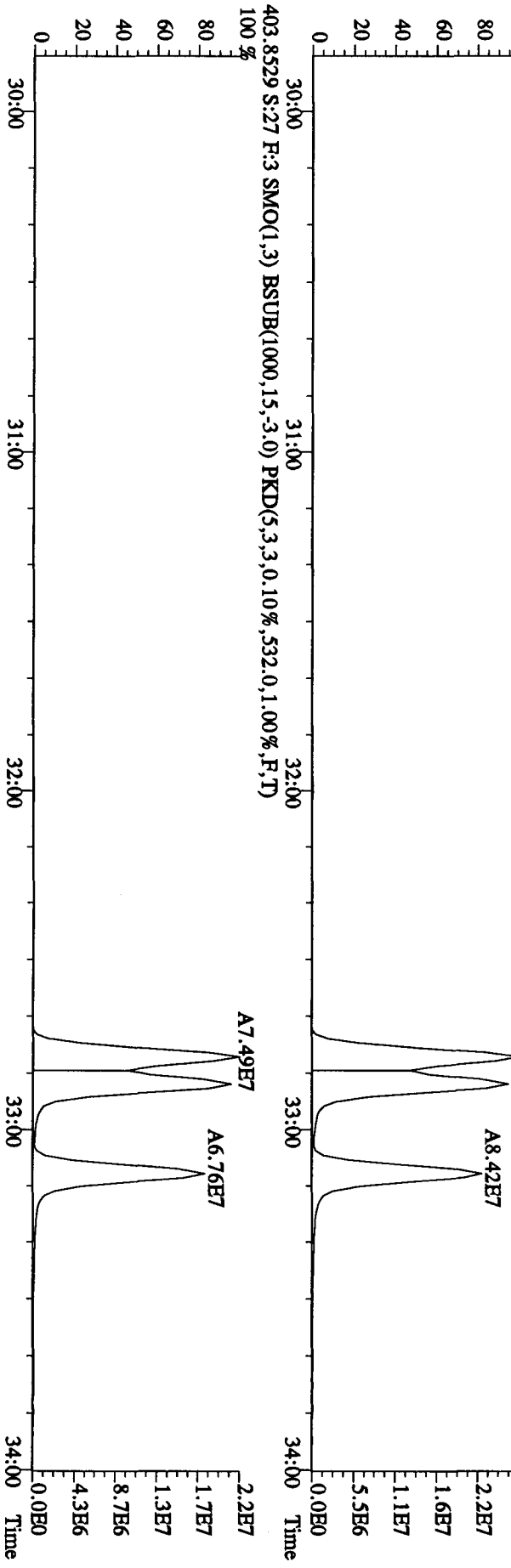
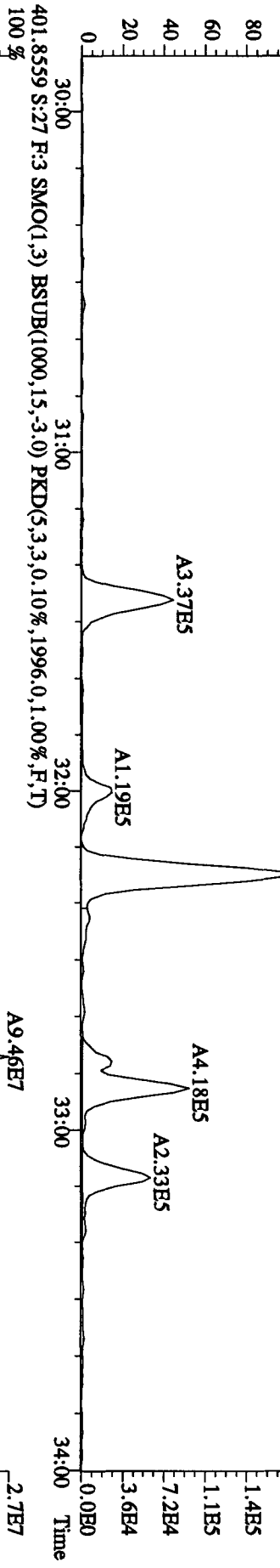
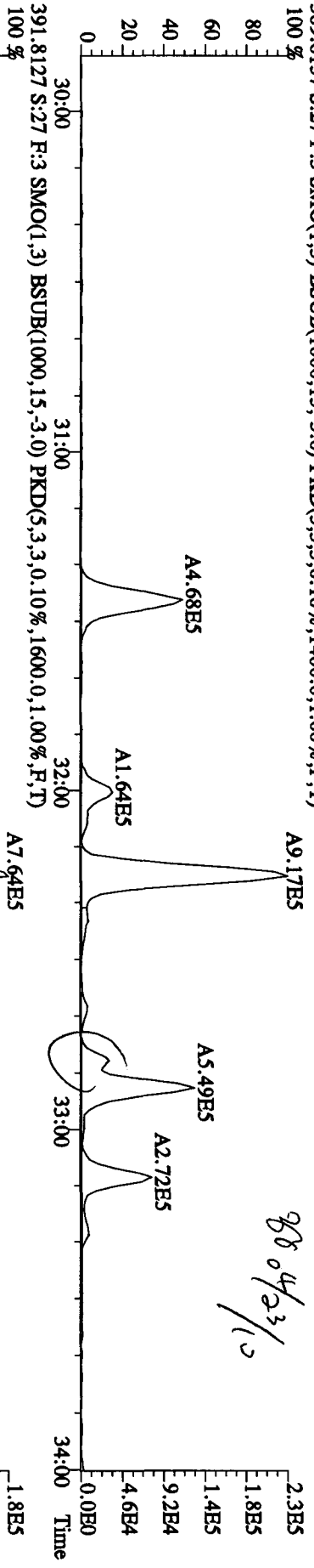
**Manual Edit Codes**

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

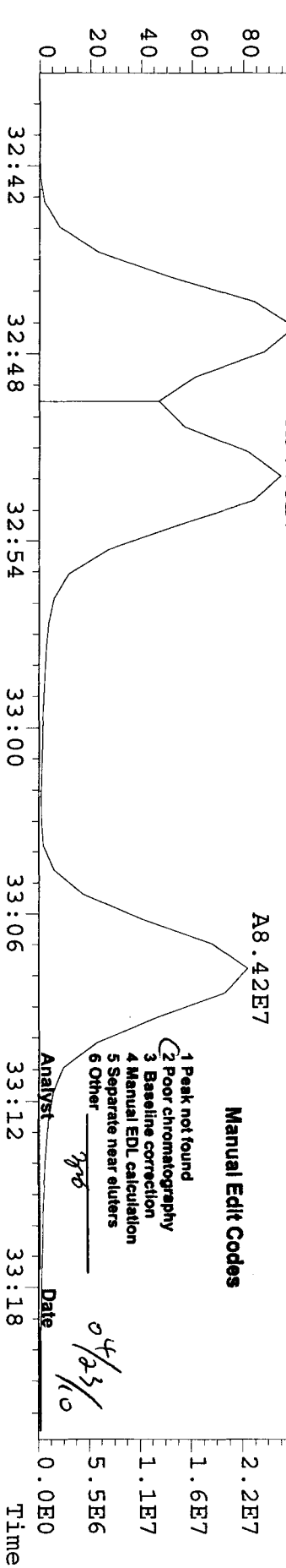
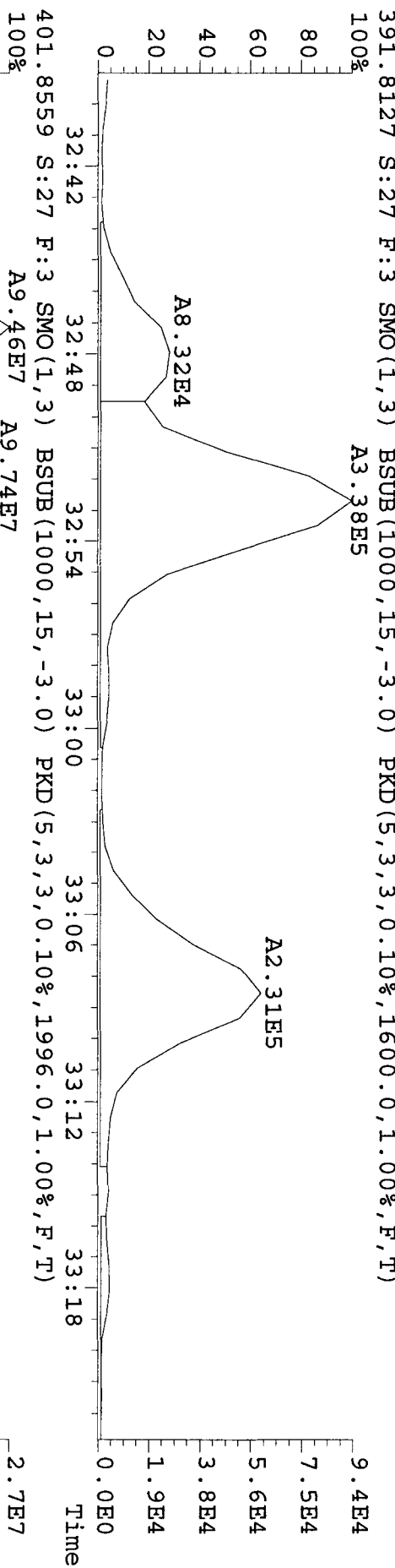
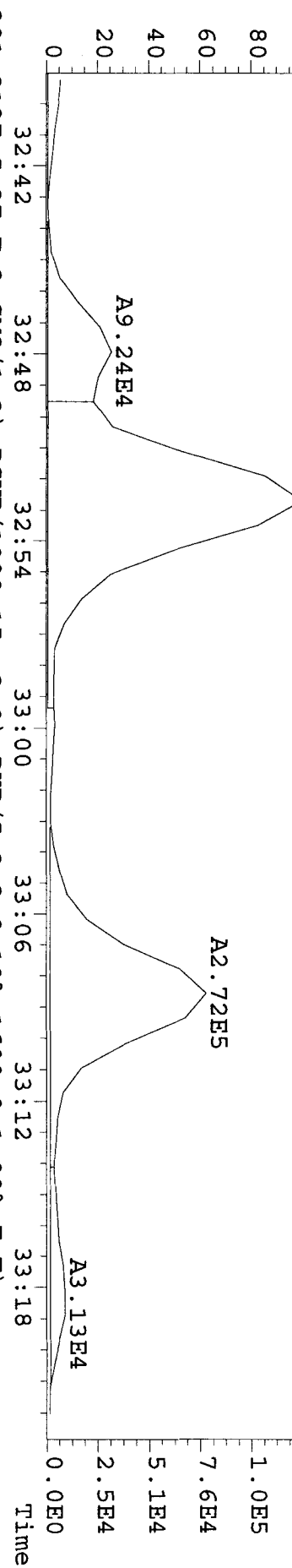
Analyst JS Date 04/02/10

File: 21AP10B4D5 #1-316 Acq: 22-APR-2010 16:11:06 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#27 Text: LX0W0-1-AA :G0D140559-1 Exp: DIOXINRES8290A  
 389.8157 S:27 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1400.0,1.00%,F,T)

*986 04/23/10*



File: 21API0B4D5 #1-316 Acq: 22-APR-2010 16:11:06 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#27 Text: LX0W0-1-AA :GOD140559-1 Exp:DIOXINRES8290A  
 389.8157 S:27 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1400.0,1.00%,F,T)  
 100% A4.50E5



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

Manual Edit Codes

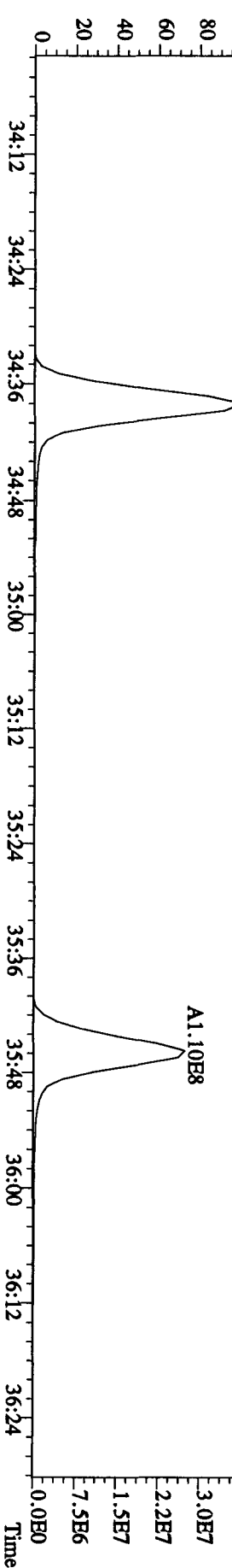
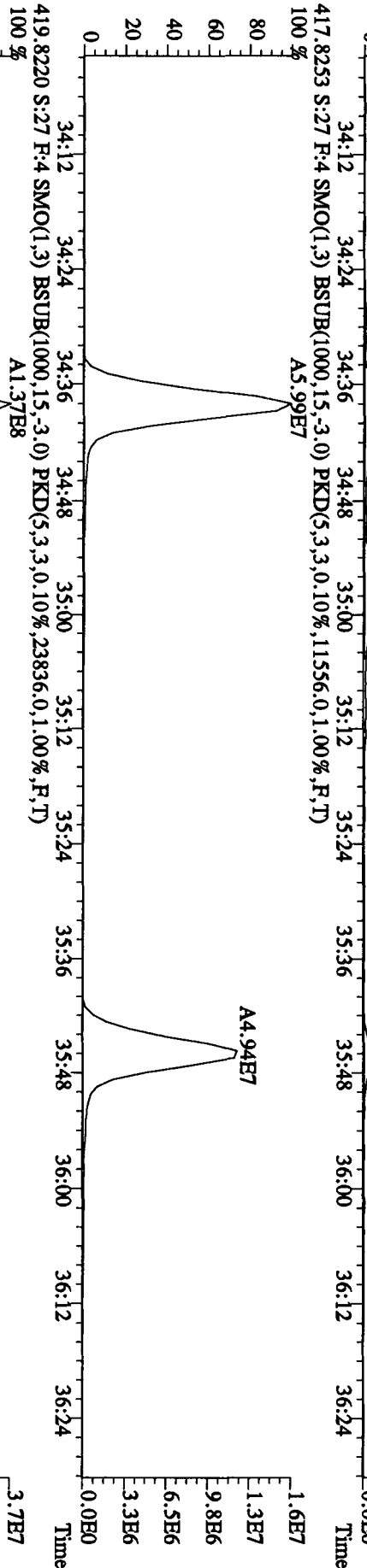
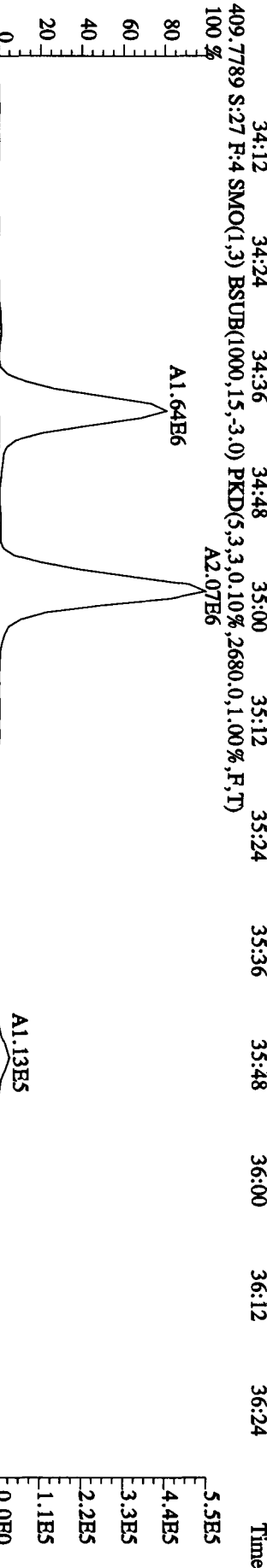
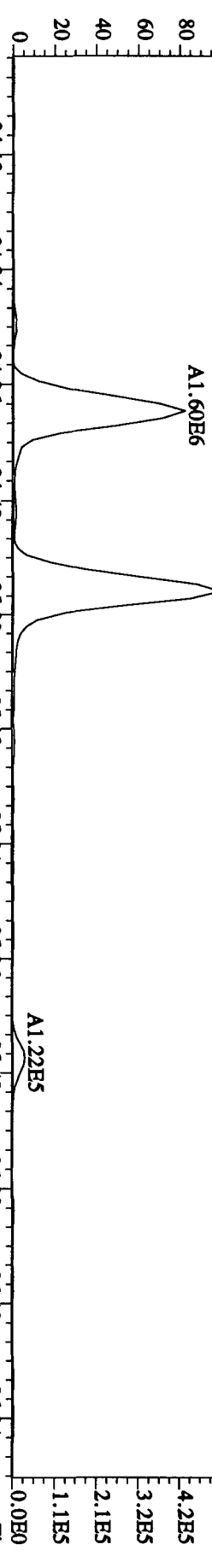
Analyst

Date

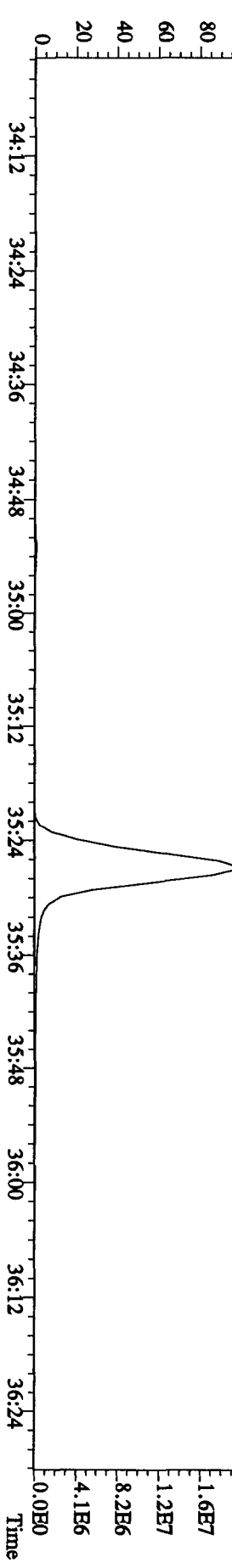
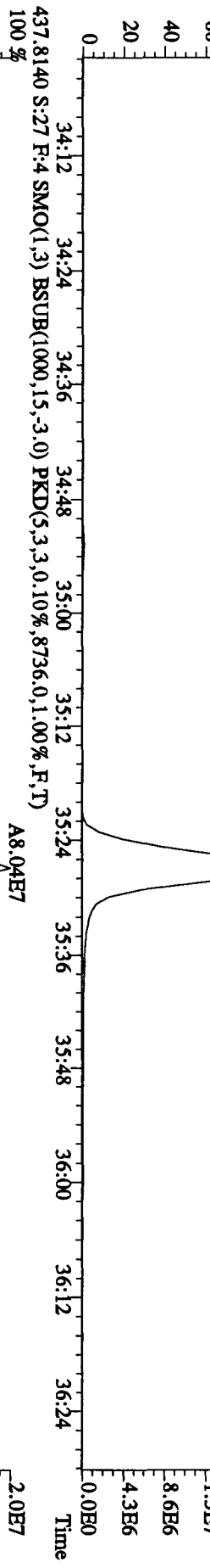
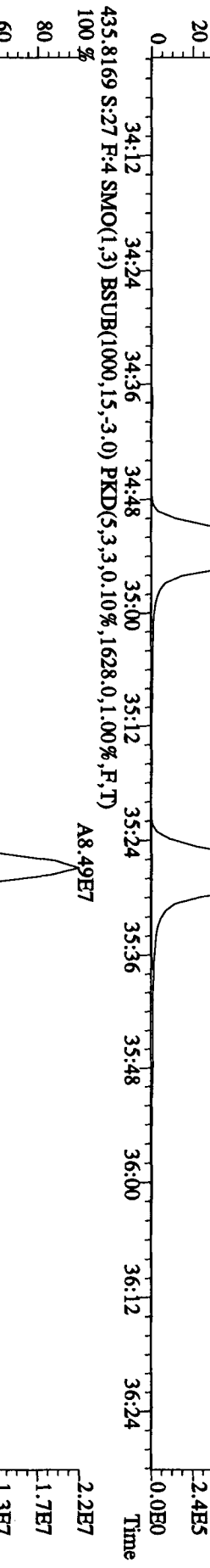
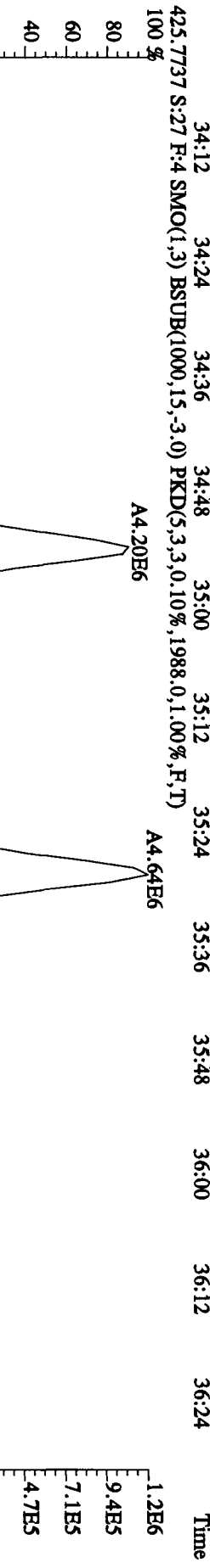
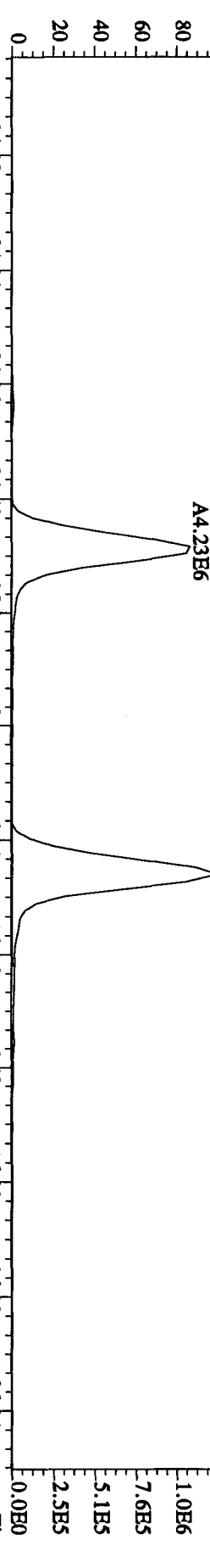
*gto*  
*04/23/10*

File: 21AP10B4D5 #1-198 Acq: 22-APR-2010 16:11:06 GC EI+ Voltage SIR Autospec-Ultimate

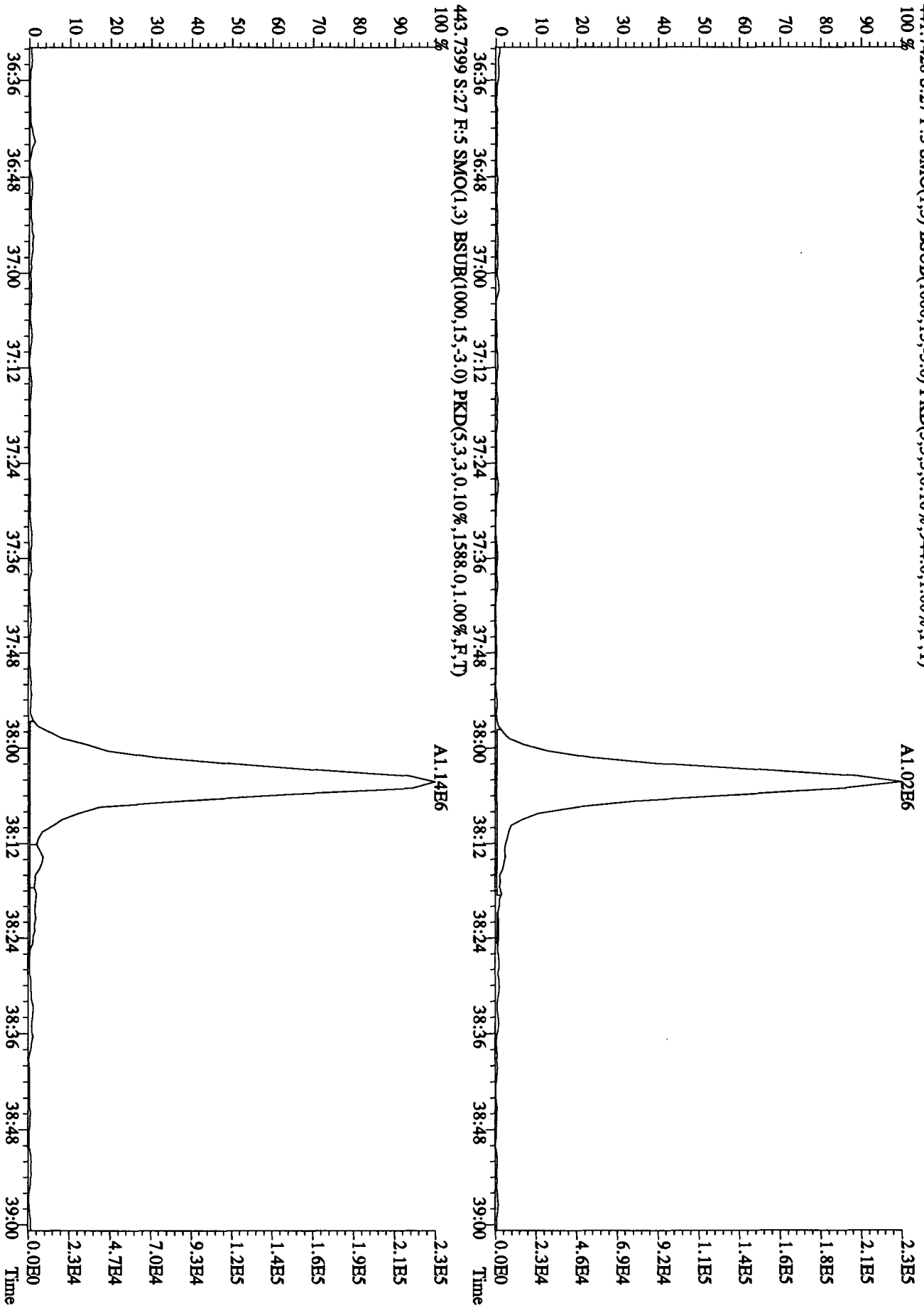
Sample#27 Text: LX0W0-1-AA :G0D140559-1 Exp: DIOXINRES8290A



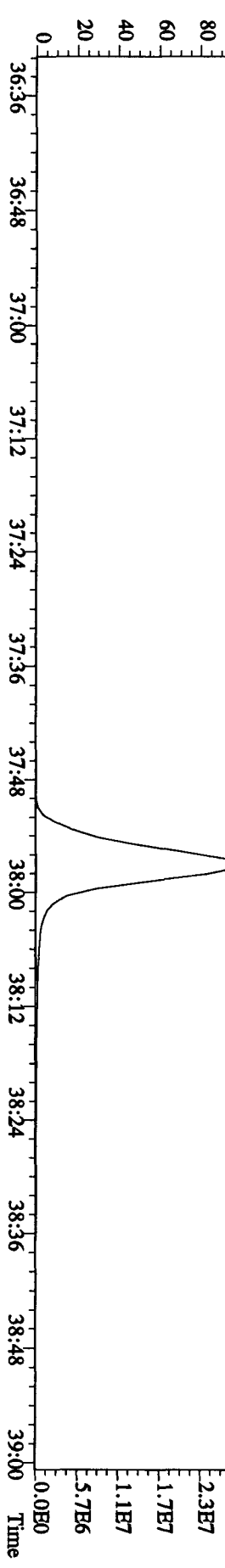
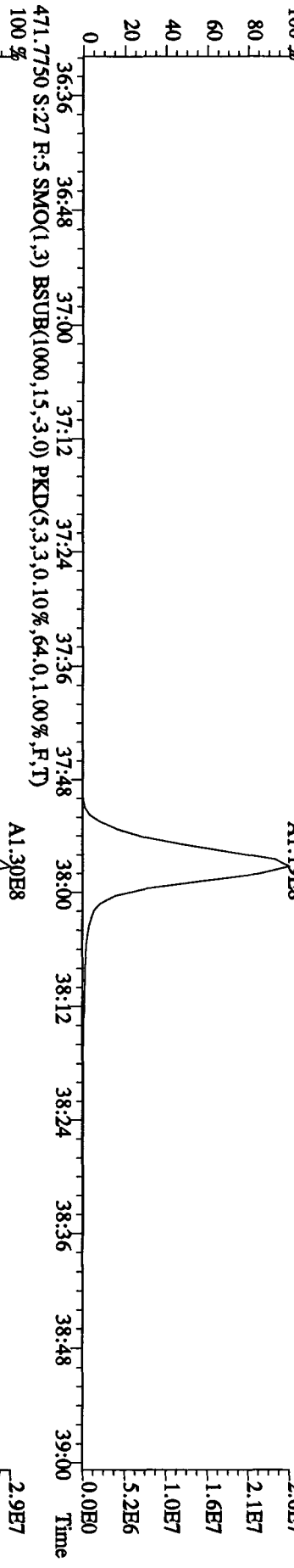
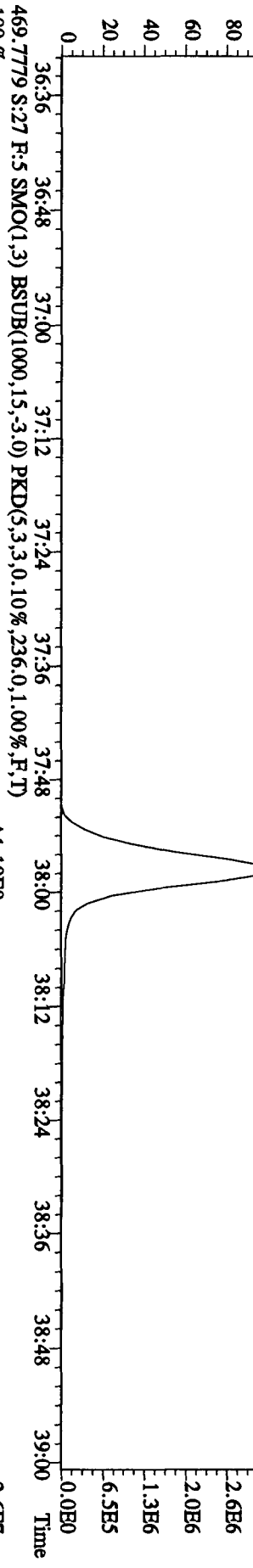
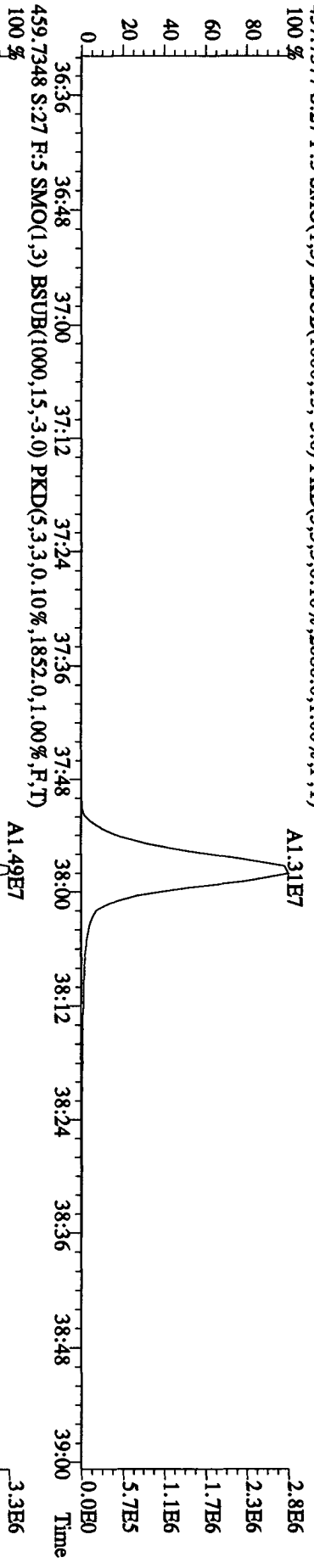
File:21AP10B4D5 #1-198 Acq:22-APR-2010 16:11:06 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#27 Text:LXOW0-1-AA :GOD140559-1 Exp:DIOXINRES8290A  
 423.7766 S:27 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.3584,0.1,0.0%,F,T)



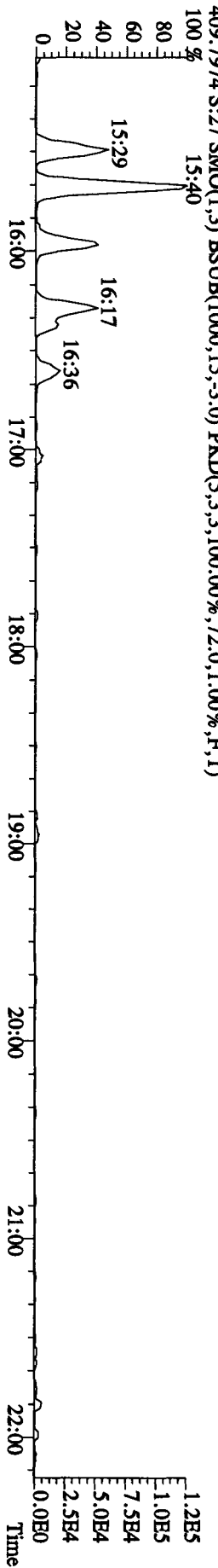
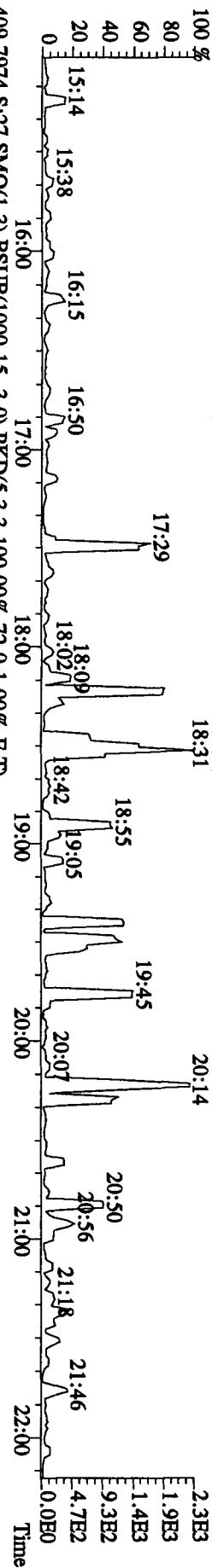
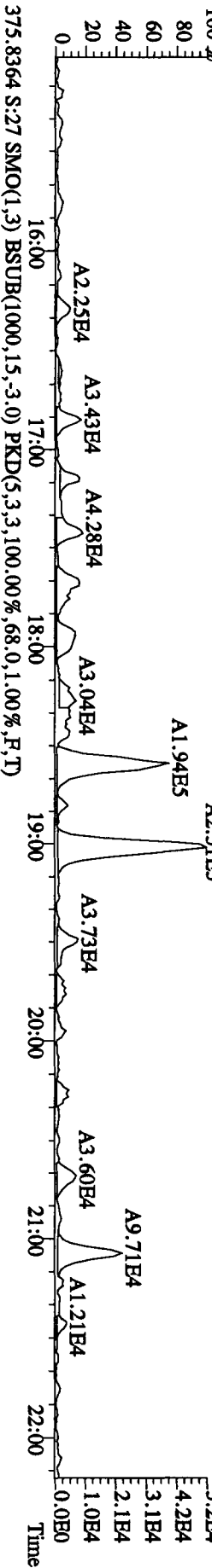
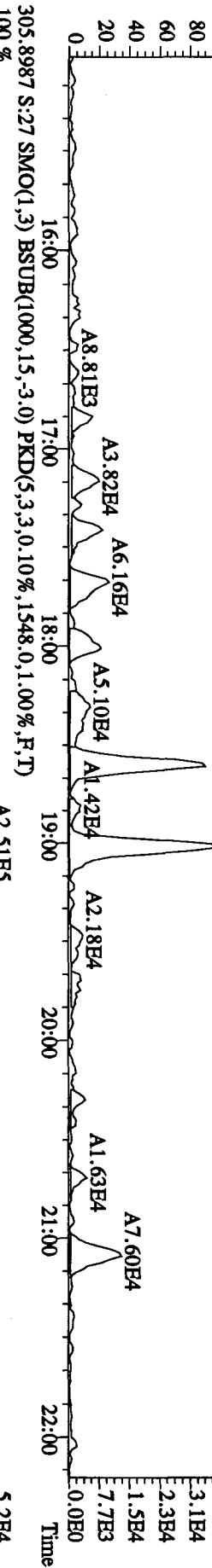
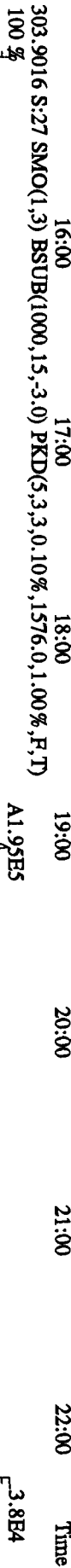
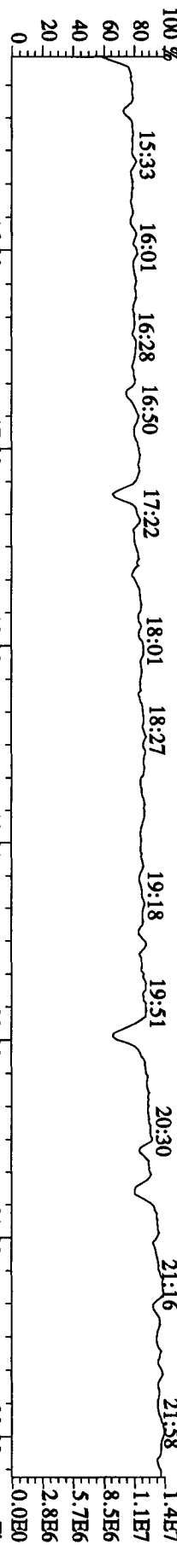
File:21AP10B4D5 #1-191 Acq:22-APR-2010 16:11:06 GC EI + Voltage SIR Autospec-Ultimate  
 Sample#27 Text:LX0W0-1-AA :GOD140559-1 Exp:DIOXINRES8290A  
 441.7428 S:27 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,.944,0,1.00%,F,T)



File: 21API010B4D5 #1-191 Acq: 22-APR-2010 16:11:06 GC EI + Voltage SIR Autospec-Ultimate  
 Sample#27 Text: LX0W0-1-AA :G0D140559-1 Exp: DIOXINRES8290A  
 457.7377 S:27 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2080.0,1.00%,F,T)

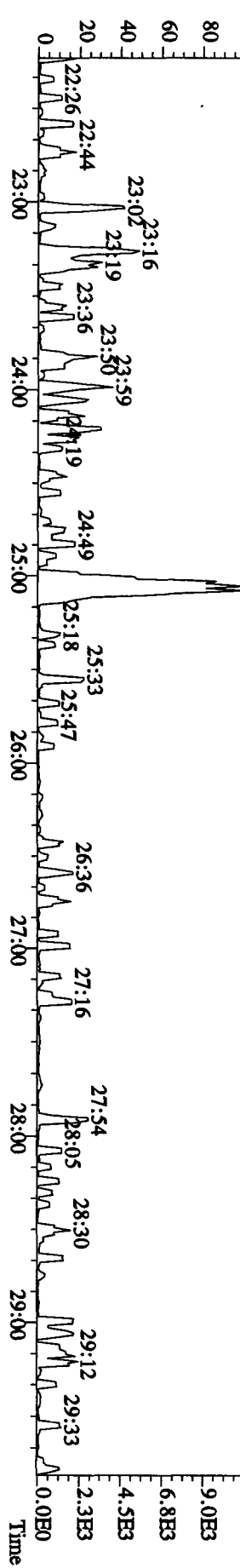
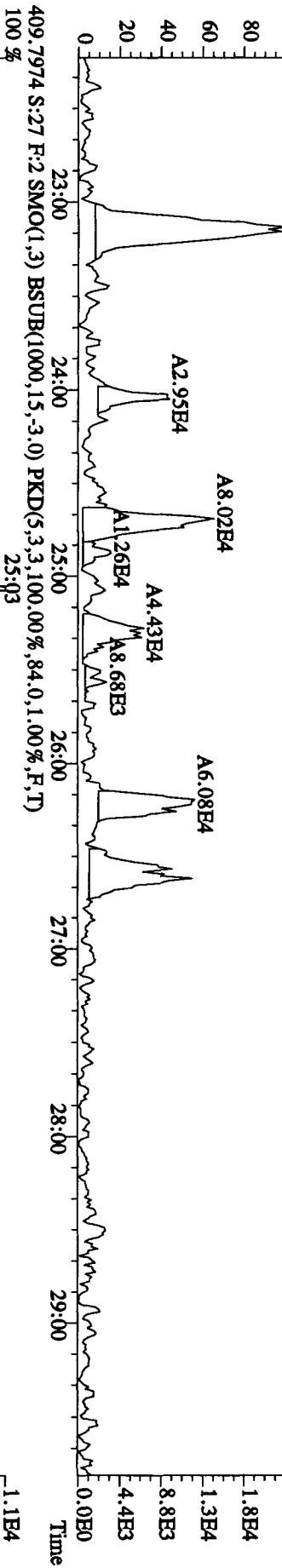
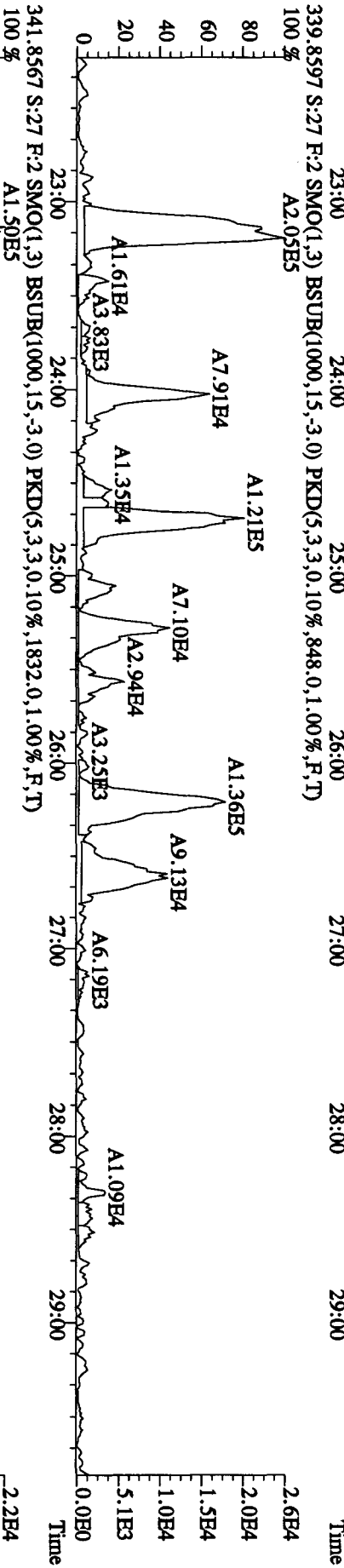
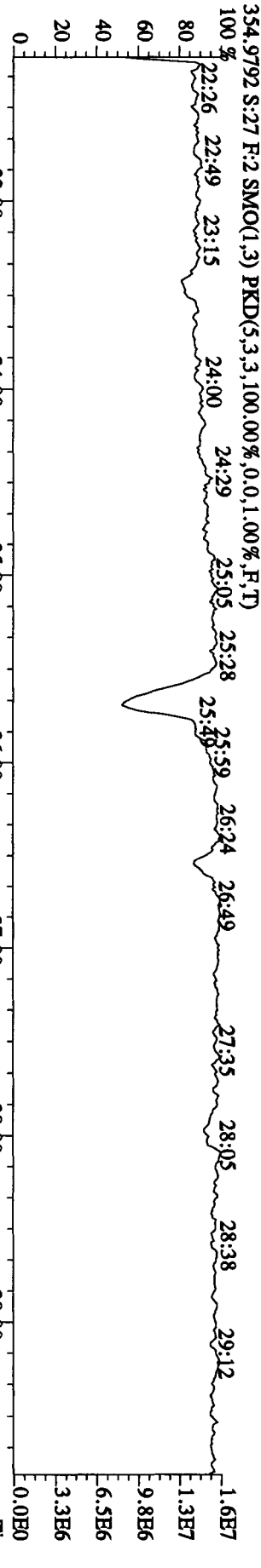


File: 21AP10B4D5 #1-434 Acq: 22-APR-2010 16:11:06 GC EI + Voltage SIR Autospec-Ultimate  
 Sample#27 Text: LX0W0-1-AA : GOD140559-1 Exp: DIOXINRES8290A  
 354.9792 S:27 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



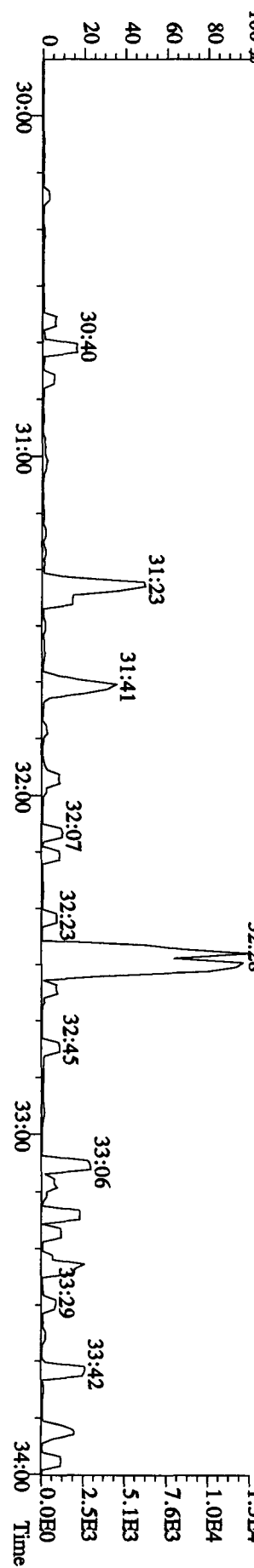
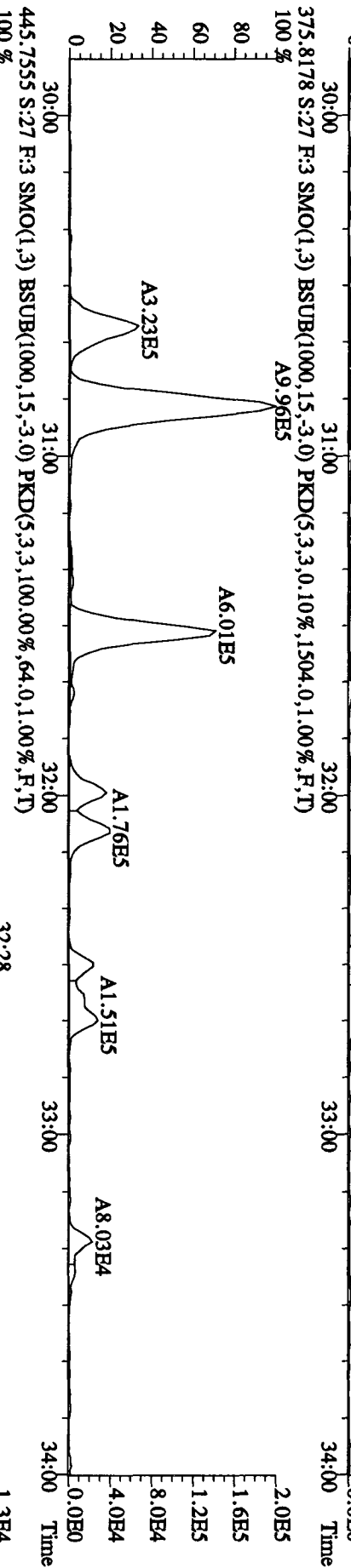
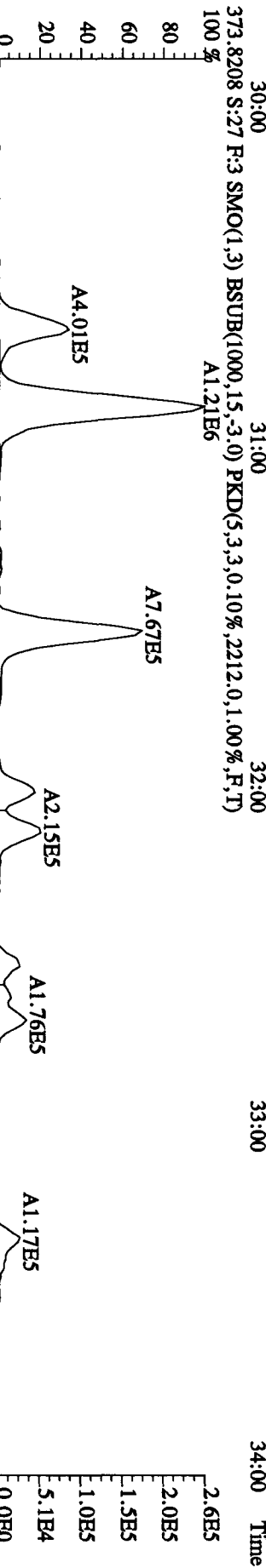
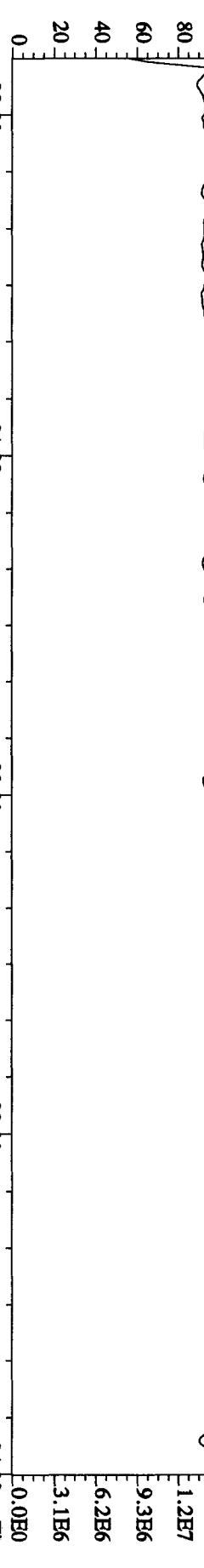


File: 21AP10B4D5 #1-605 Acq: 22-APR-2010 16:11:06 GC EI + Voltage SIR Autospec-Ultimate  
 Sample#27 Text: LXOW0-1-AA :G0D140559-1 Exp: DIOXINRES8290A

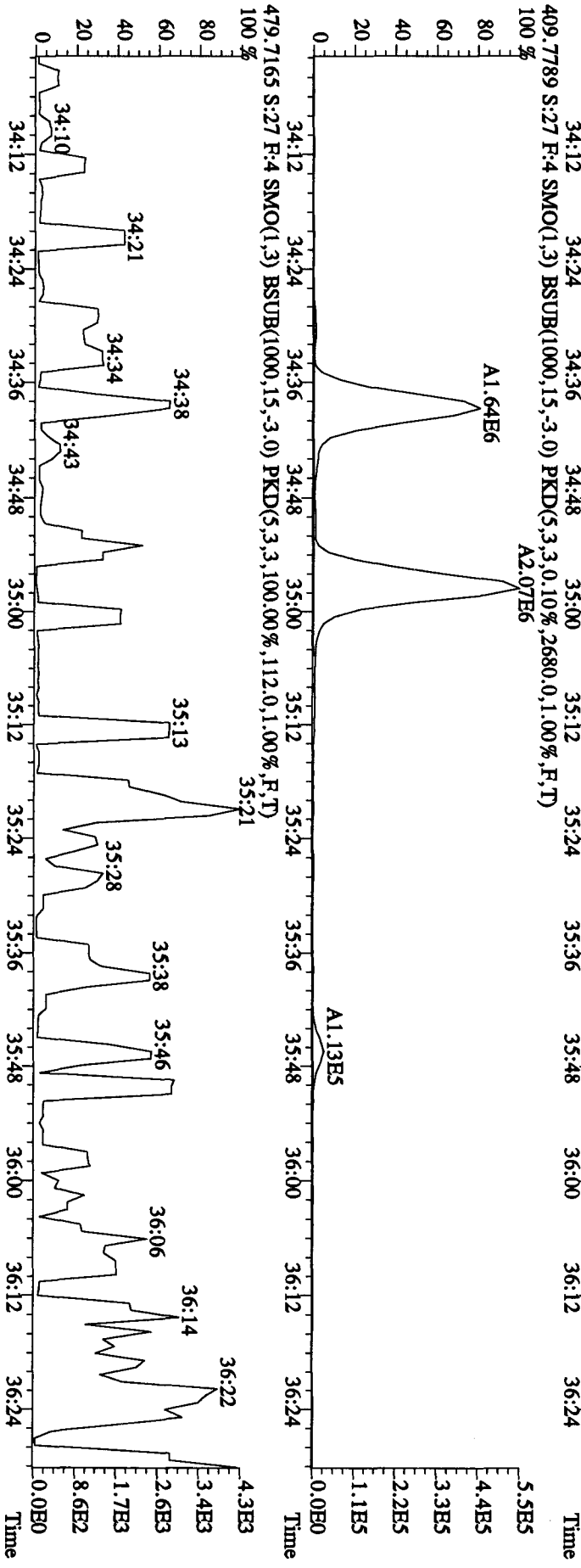
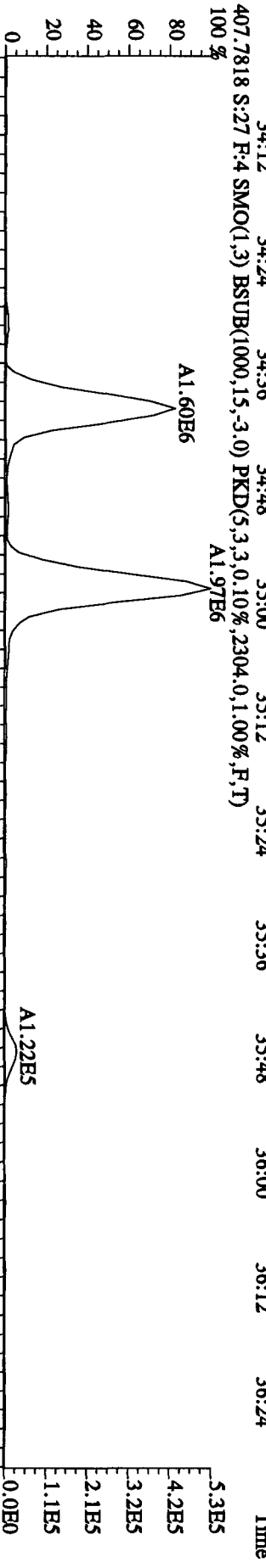
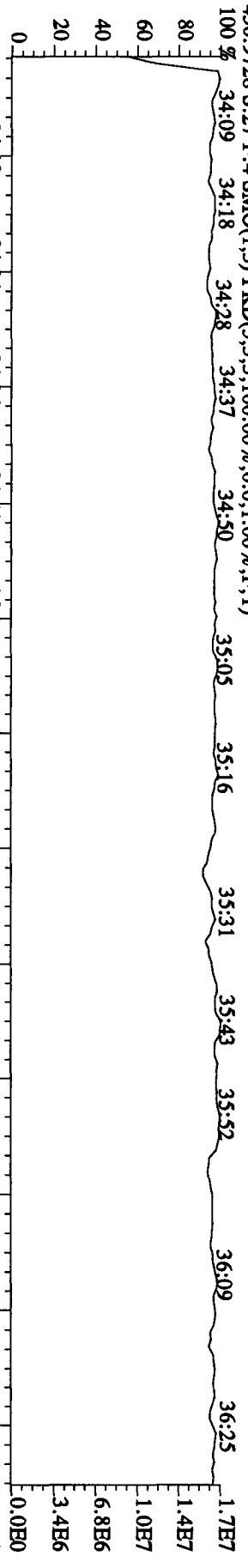


File: 21AP10B4D5 #1-316 Acq: 22-APR-2010 16:11:06 GC EI+ Voltage SIR Autospec-Ultimate  
 Exp: DIOXINRES8290A

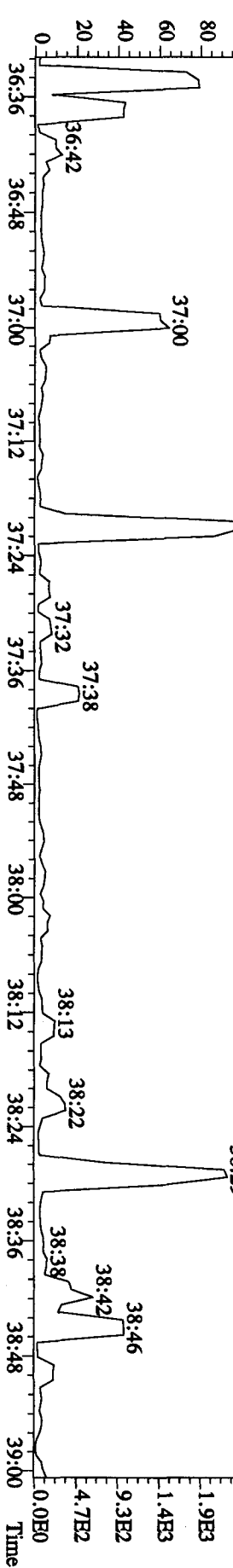
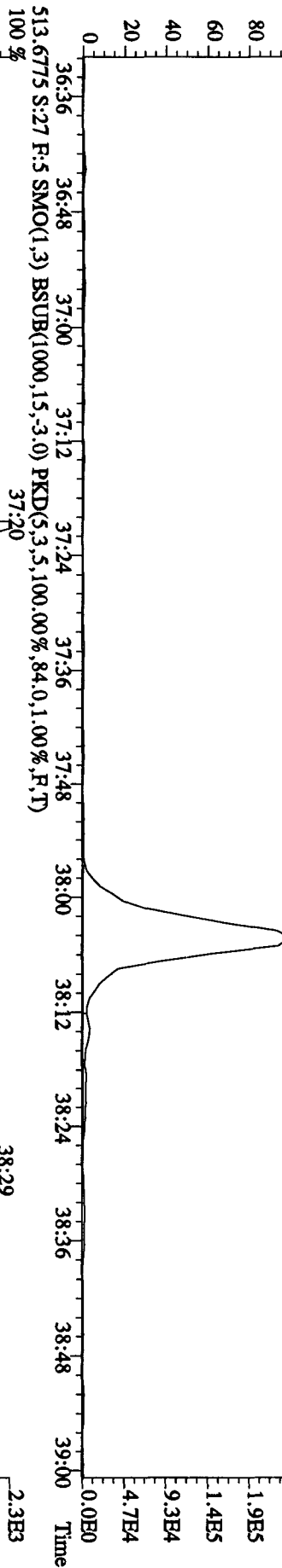
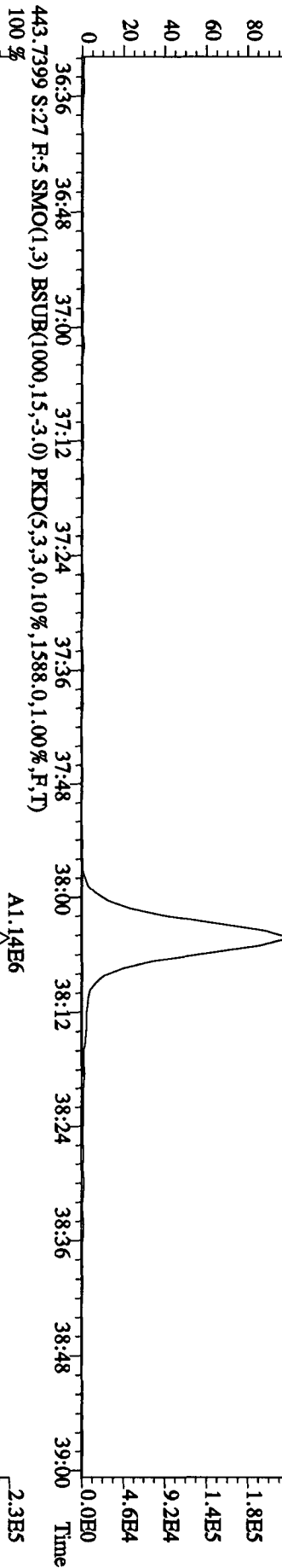
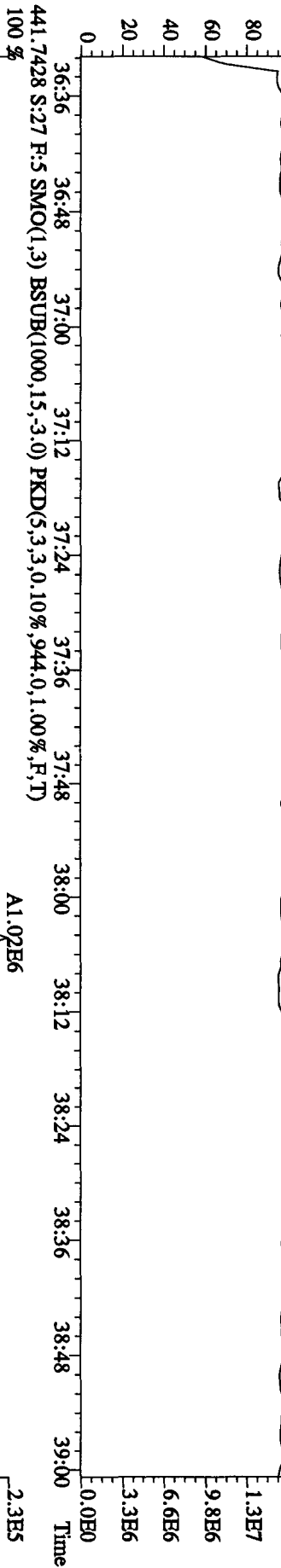
Sample#27 Text: LXOW0-1-AA :G0D140559-1  
 430.9728 S:27 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 30:16 30:29 30:47 31:07 31:22 31:37 31:51 32:04 32:18 32:38 33:00 33:26 33:41



File: 21AP10B4D5 #1-198 Acq: 22-APR-2010 16:11:06 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#27 Text: LIXOWO-1-AA :GOD140559-1 Exp: DIOXINRES8290A



File:21AP10B4D5 #1-191 Acq:22-APR-2010 16:11:06 GC EI + Voltage SIR Autospec-Ultimate  
 Sample#27 Text:LXOWO-1-AA :GOD140559-1 Exp:DIOXINRES8290A  
 442.9728 S:27 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100% 36:37 36:48 36:59 37:14 37:29 37:41 37:56 38:04 38:14 38:30 38:41 38:54



Run text: LX0W1-1-AA      Sample text: LX0W1-1-AA :GOD140559-2  
 Run #29 Filename: 21AP10B4D5 S: 28 I: 1      Results: 21AP10B4D58290ASY  
 Acquired: 22-APR-10 16:55:08      Processed: 23-APR-10 08:45:54  
 Run: 21AP10B4D5      Analyte: 8290AHRS      Cal: 8290A0412104D5 ✓  
 Factor 1:1600.000      Factor 2:20.000      Sample size: 1.06 L

*8604/23/10*

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	204389000	0.82 y	19:34	-	145.140	-	-	n
13C-2,3,7,8-TCDF	382510000	0.80 y	18:59	1.52	1162.626	0.347	61.5	n
2,3,7,8-TCDF	419041	0.76 y	19:00	0.95	<i>SB</i> 2.190	0.221	-	n
Total TCDF	1523175	0.86 y	16:17	0.95	<del>7.959</del>	0.221	-	n
13C-2,3,7,8-TCDD	269488000	0.81 y	19:46	0.95	1311.627	0.610	69.4	n
2,3,7,8-TCDD	48915	0.19 n	19:47	1.02	<i>SB</i> 0.336	0.235	-	n
Total TCDD	2103948	0.85 y	17:18	1.02	<del>14.448</del>	0.235	-	n
37Cl-2,3,7,8-TCDD	296330000	1.00 y	19:47	2.26	605.716	0.068	80.1	n
13C-1,2,3,7,8-PeCDF	307236000	1.59 y	24:40	1.05	1352.073	0.458	71.6	n
1,2,3,7,8-PeCDF	113799	1.94 n	24:42	1.04	<i>SB</i> 0.670	0.289	-	n
2,3,4,7,8-PeCDF	117177	1.28 n	26:11	0.98	<i>SB</i> 0.734	0.308	-	n
Total F2 PeCDF	1071506	1.58 y	23:11	1.01	<del>6.504</del>	0.298	-	n
Total F1 PeCDF	322089	0.23 n	16:42	1.01	1.955	0.238	-	n
13C-1,2,3,7,8-PeCDD	206841600	1.59 y	27:00	0.67	1425.973	0.295	75.5	n
1,2,3,7,8-PeCDD	143482	1.50 y	27:02	0.98	<i>SB</i> 1.335	0.412	-	n
Total PeCDD	823456	1.66 y	22:58	0.98	<del>7.661</del>	0.412	-	n
13C-1,2,3,7,8,9-HxCDD	165290300	1.26 y	33:07	-	151.965	-	-	n
13C-1,2,3,4,7,8-HxCDF	221627500	0.53 y	31:58	1.02	1236.004	0.063	65.4	n
1,2,3,4,7,8-HxCDF	223173	1.50 n	31:58	1.21	<i>SB</i> 1.569	0.271	-	n
1,2,3,6,7,8-HxCDF	272508	1.28 y	32:05	1.34	<i>SB</i> 1.730	0.245	-	n
2,3,4,6,7,8-HxCDF	141311	1.31 y	32:39	1.22	<i>SB</i> 0.986	0.269	-	y
1,2,3,7,8,9-HxCDF	28114	1.70 n	33:19	1.09	<del>0.219</del>	0.301	-	y
Total HxCDF	5108040	1.40 y	30:37	1.22	<del>35.614</del>	0.270	-	y
13C-1,2,3,6,7,8-HxCDD	196216100	1.26 y	32:51	0.81	1389.589	0.018	73.5	n
1,2,3,4,7,8-HxCDD	118610	1.45 n	32:47	1.01	<i>SB</i> 1.134	0.247	-	y
1,2,3,6,7,8-HxCDD	687704	1.22 y	32:52	1.11	<i>SB</i> 5.945	0.223	-	y
1,2,3,7,8,9-HxCDD	496295	1.30 y	33:08	1.21	<i>SB</i> 3.953	0.205	-	n
Total HxCDD	4327000	1.14 y	31:26	1.11	<del>37.272</del>	0.224	-	y
13C-1,2,3,4,6,7,8-HpCDF	207372800	0.44 y	34:38	0.86	1374.071	2.032	72.7	n
1,2,3,4,6,7,8-HpCDF	2901370	1.00 y	34:38	1.31	<i>SB</i> 20.185	0.452	-	n
1,2,3,4,7,8,9-HpCDF	79788	0.98 y	35:46	1.03	<i>SB</i> 0.709	0.577	-	n
Total HpCDF	6396450	1.66 n	34:29	1.17	<del>47.544</del>	0.507	-	n
13C-1,2,3,4,6,7,8-HpCDD	174821300	1.05 y	35:26	0.70	1432.568	1.137	75.8	n
1,2,3,4,6,7,8-HpCDD	8979840	1.02 y	35:27	1.07	<i>B</i> 90.548	0.797	-	n
Total HpCDD	17156983	3.54 n	34:38	1.07	<del>173.062</del>	0.797	-	n
13C-OCDD	264906000	0.92 y	37:57	0.53	2849.330	0.017	75.4	n
OCDF	1834586	0.89 y	38:04	1.45	<i>SB</i> 18.107	0.345	-	n

OCDD 28320000 0.90 y 37:57 1.17

3 346.401 /

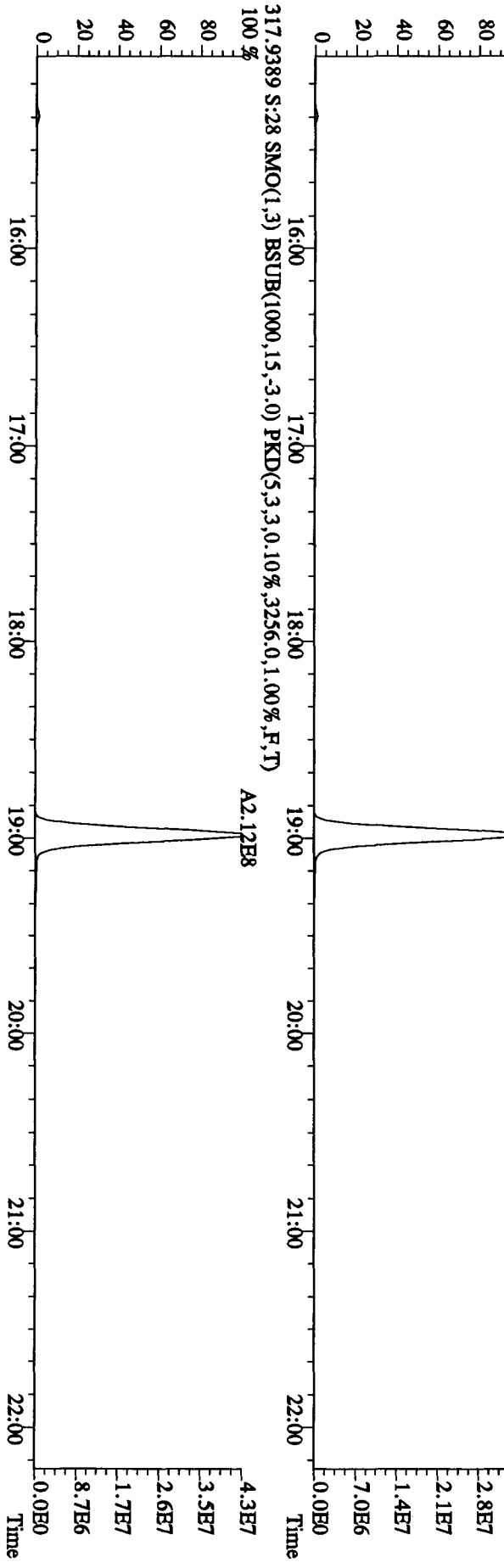
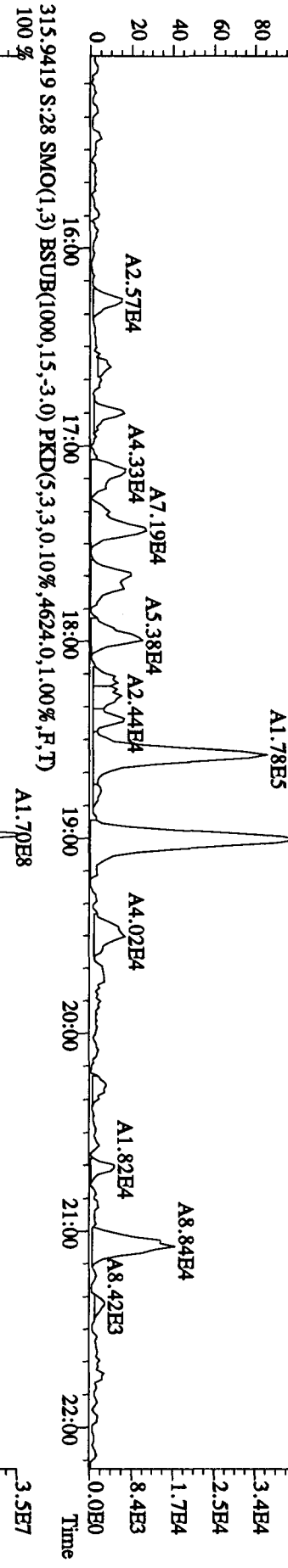
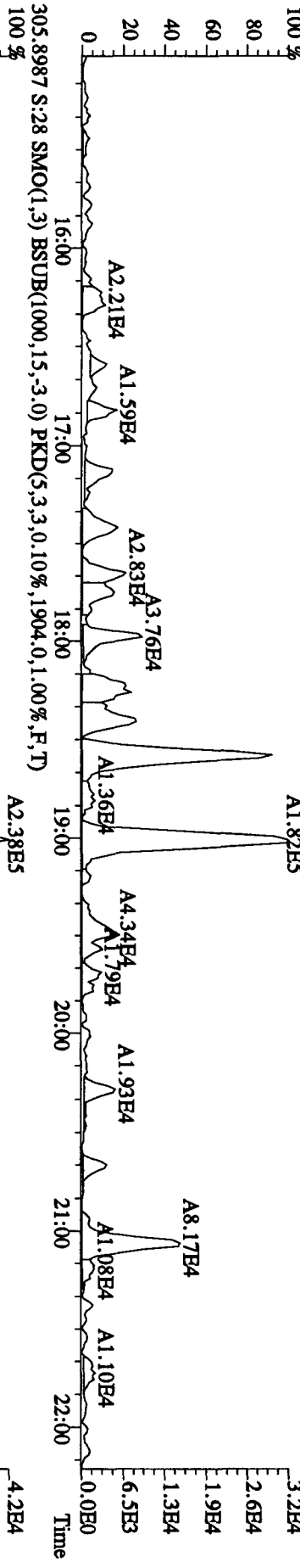
0.496

- n

Run text: LX0W1-1-AA Sample text: LX0W1-1-AA :GOD140559-2  
 Run #29 Filename: 21AP10B4D5 S: 28 I: 1 Results: 21AP10B4D58290A  
 Acquired: 22-APR-10 16:55:08 Processed: 23-APR-10 08:45:54  
 Run: 21AP10B4D5 Analyte: 8290AHRS Cal: 8290A0412104D5  
 Sample size: 1.06 L

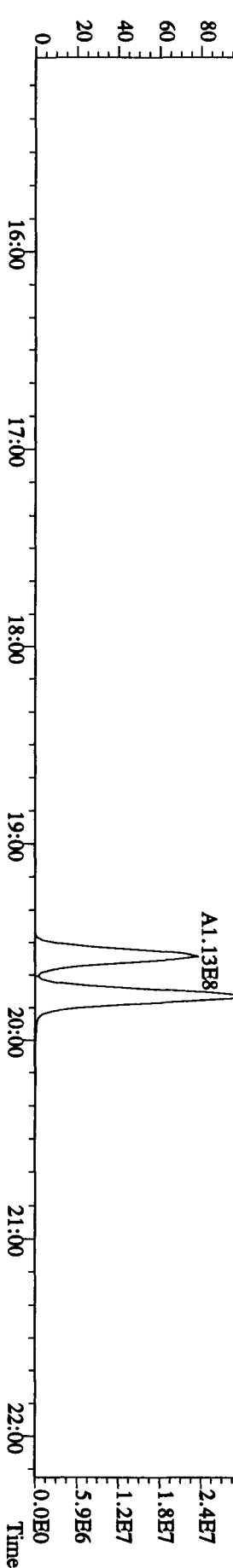
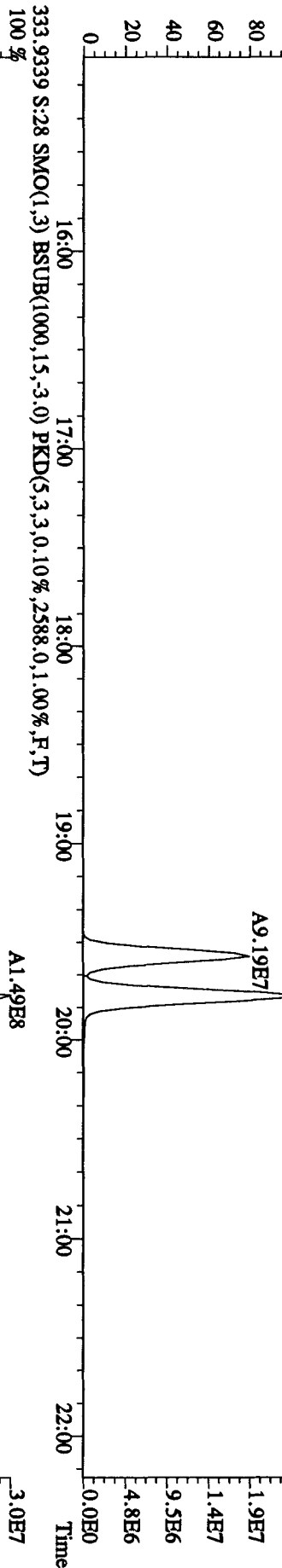
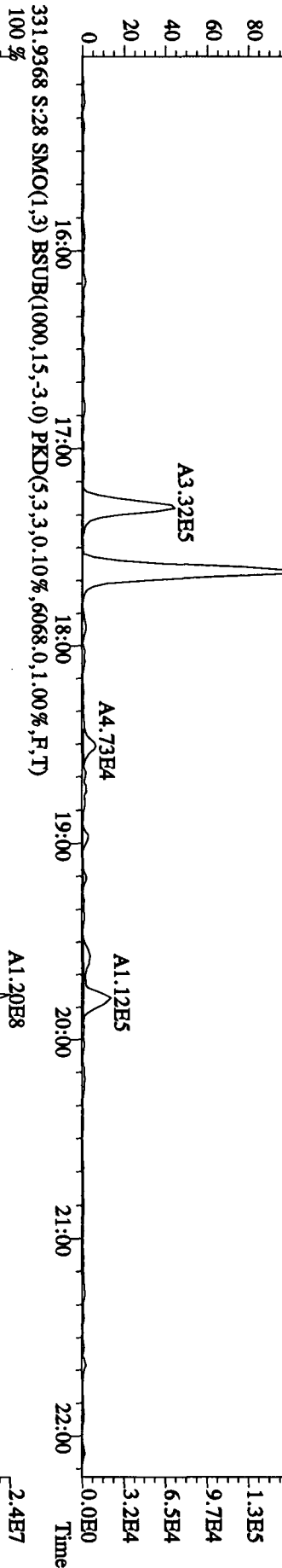
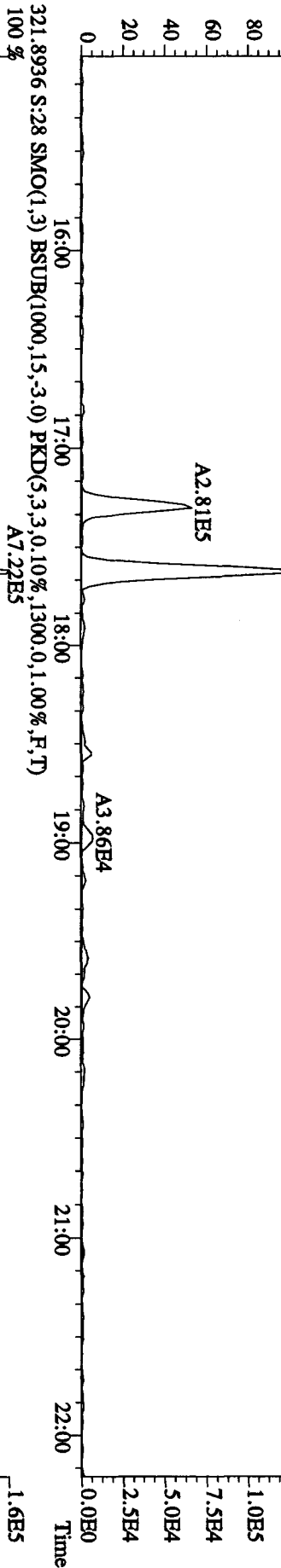
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	204389000	0.82 y	19:34	-	145.1400	-	-	n
13C-2,3,7,8-TCDF	382510000	0.80 y	18:59	1.52	1162.6262	0.3471	61.5	n
2,3,7,8-TCDF	419041	0.76 y	19:00	0.95	SB 2.1897 /	0.2214	-	n
Total TCDF	1523175	0.86 y	16:17	0.95	<del>7.9592</del>	0.2214	-	n
13C-2,3,7,8-TCDD	269488000	0.81 y	19:46	0.95	1311.6268	0.6103	69.4	n
2,3,7,8-TCDD	48915	0.19 n	19:47	1.02	SO 0.3359 /	0.2354	-	n
Total TCDD	2103948	0.85 y	17:18	1.02	<del>14.4478</del>	0.2354	-	n
37Cl-2,3,7,8-TCDD	296330000	1.00 y	19:47	2.26	605.7163	0.0680	80.1	n
13C-1,2,3,7,8-PeCDF	307236000	1.59 y	24:40	1.05	1352.0728	0.4576	71.6	n
1,2,3,7,8-PeCDF	113799	1.94 n	24:42	1.04	SOB 0.6699 /	0.2894	-	n
2,3,4,7,8-PeCDF	117177	1.28 n	26:11	0.98	0.7337 /	0.3079	-	n
Total F2 PeCDF	1071506	1.58 y	23:11	1.01	<del>6.5041</del>	0.2983	-	n
Total F1 PeCDF	322089	0.23 n	16:42	1.01	<del>1.9545</del>	0.2377	-	n
13C-1,2,3,7,8-PeCDD	206841600	1.59 y	27:00	0.67	1425.9731	0.2945	75.5	n
1,2,3,7,8-PeCDD	143482	1.50 y	27:02	0.98	J 1.3348 /	0.4117	-	n
Total PeCDD	823456	1.66 y	22:58	0.98	<del>7.6606</del>	0.4117	-	n
13C-1,2,3,7,8,9-HxCDD	165290300	1.26 y	33:07	-	151.9653	-	-	n
13C-1,2,3,4,7,8-HxCDF	221627500	0.53 y	31:58	1.02	1236.0042	0.0630	65.4	n
1,2,3,4,7,8-HxCDF	223173	1.50 n	31:58	1.21	1.5690	0.2714	-	n
1,2,3,6,7,8-HxCDF	272508	1.28 y	32:05	1.34	1.7302	0.2451	-	n
2,3,4,6,7,8-HxCDF	238017	1.25 y	32:39	1.22	1.6602	0.2693	-	n
1,2,3,7,8,9-HxCDF	79468	1.16 y	33:19	1.09	0.6202	0.3013	-	n
Total HxCDF	5256100	1.40 y	30:37	1.22	36.6898	0.2704	-	n
13C-1,2,3,6,7,8-HxCDD	196216100	1.26 y	32:51	0.81	1389.5893	0.0180	73.5	n
1,2,3,4,7,8-HxCDD	835986	1.29 y	32:52	1.01	7.9961	0.2466	-	n
1,2,3,6,7,8-HxCDD	835986	1.29 y	32:52	1.11	7.2269	0.2229	-	n
1,2,3,7,8,9-HxCDD	496295	1.30 y	33:08	1.21	3.9528	0.2053	-	n
Total HxCDD	4356673	1.14 y	31:26	1.11	37.4195	0.2237	-	n
13C-1,2,3,4,6,7,8-HpCDF	207372800	0.44 y	34:38	0.86	1374.0707	2.0318	72.7	n
1,2,3,4,6,7,8-HpCDF	2901370	1.00 y	34:38	1.31	20.1849	0.4522	-	n
1,2,3,4,7,8,9-HpCDF	79788	0.98 y	35:46	1.03	0.7088	0.5775	-	n
Total HpCDF	6396450	1.66 n	34:29	1.17	47.5438	0.5072	-	n
13C-1,2,3,4,6,7,8-HpCDD	174821300	1.05 y	35:26	0.70	1432.5675	1.1374	75.8	n
1,2,3,4,6,7,8-HpCDD	8979840	1.02 y	35:27	1.07	90.5478	0.7973	-	n
Total HpCDD	17156983	3.54 n	34:38	1.07	173.0016	0.7973	-	n
13C-OCDD	264906000	0.92 y	37:57	0.53	2849.3299	0.0175	75.4	n
OCDF	1834586	0.89 y	38:04	1.45	18.1068	0.3445	-	n
OCDD	28320000	0.90 y	37:57	1.17	346.4007	0.4959	-	n

File:21AP10B4D5 #1-434 Acq:22-APR-2010 16:55:08 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#28 Text:LX0W1-1-AA :G0D140559-2 Exp:DIOXINRES8290A  
 303.9016 S:28 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0.10%,980.0,1.00%,F,T)

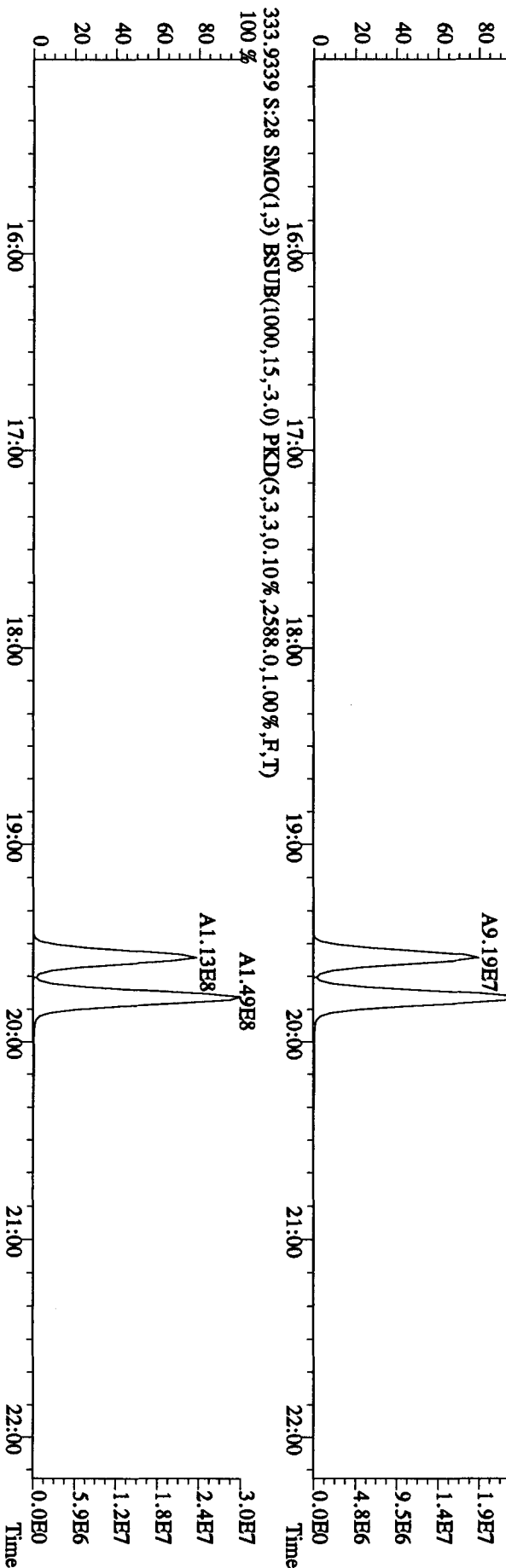
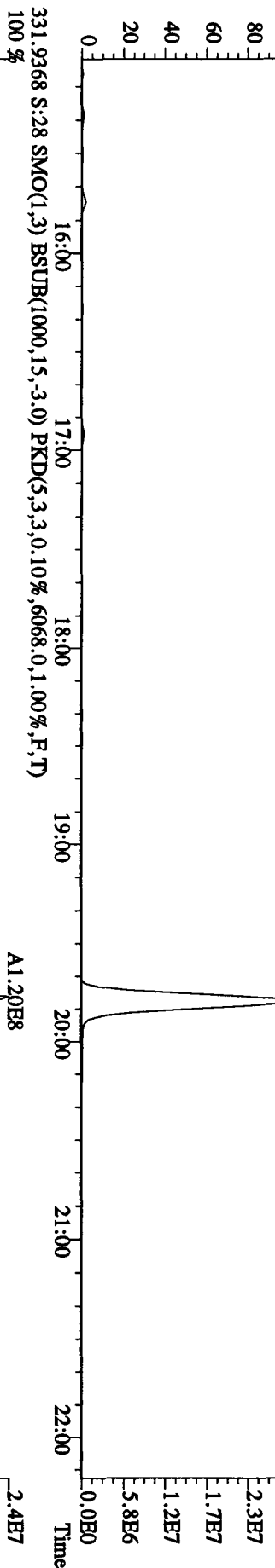
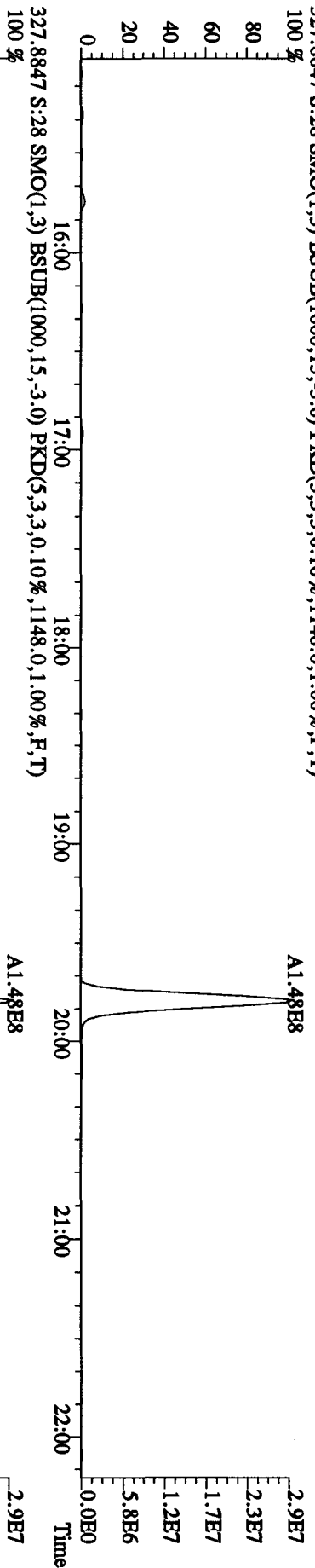




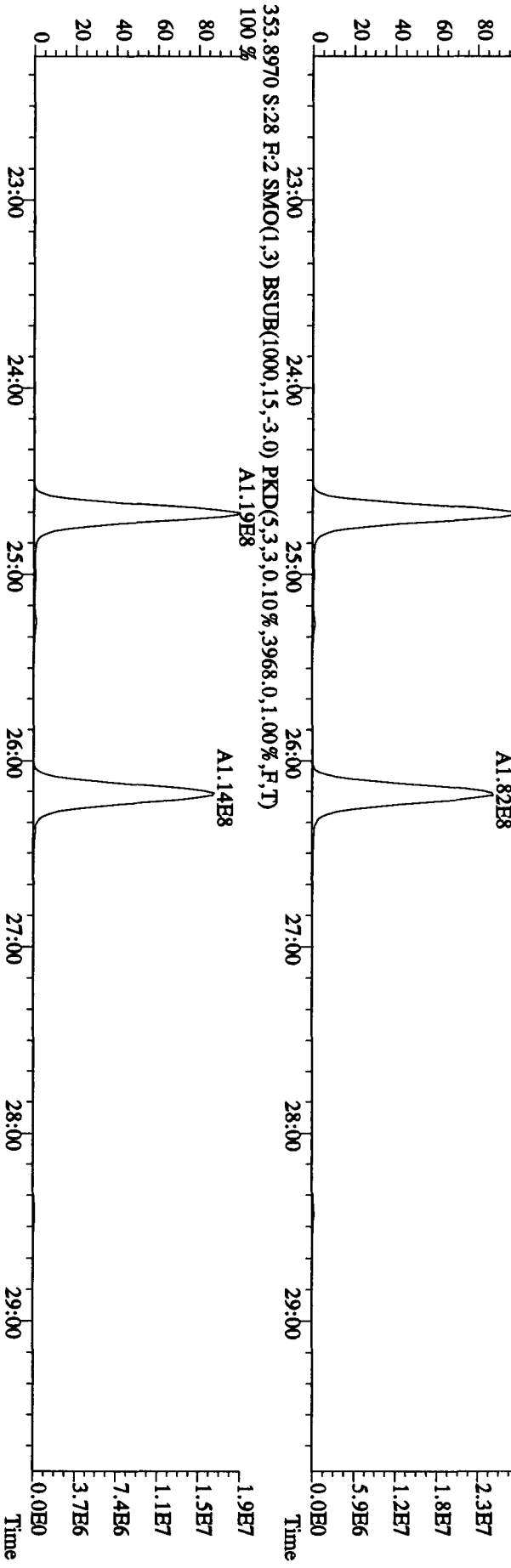
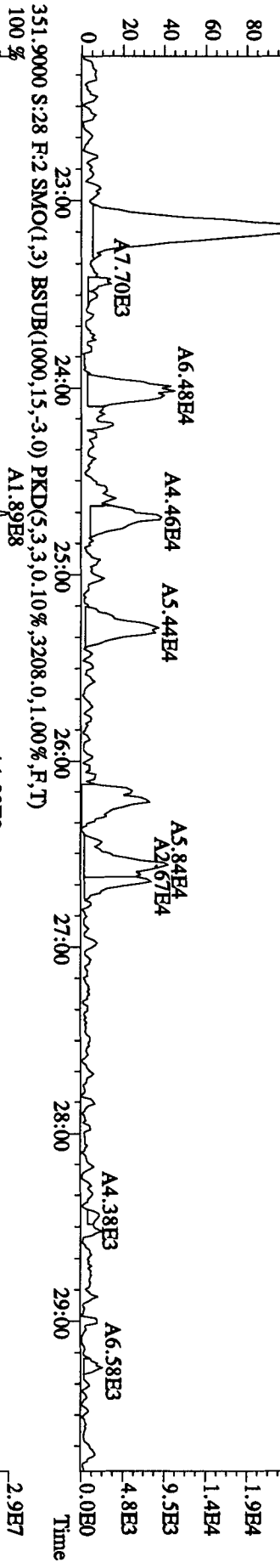
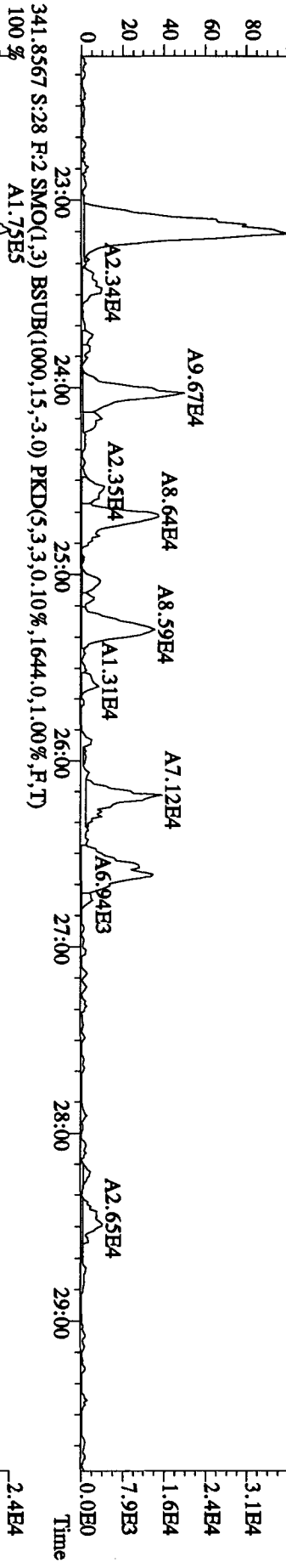
File: 21AP10B4D5 #1-434 Acq: 22-APR-2010 16:55:08 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#28 Text: LIXOV1-1-AA :GOD140559-2 Exp: DIOXINRES8290A  
 319.8965 S:28 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,968.0,1.00%,F,T)  
 100%



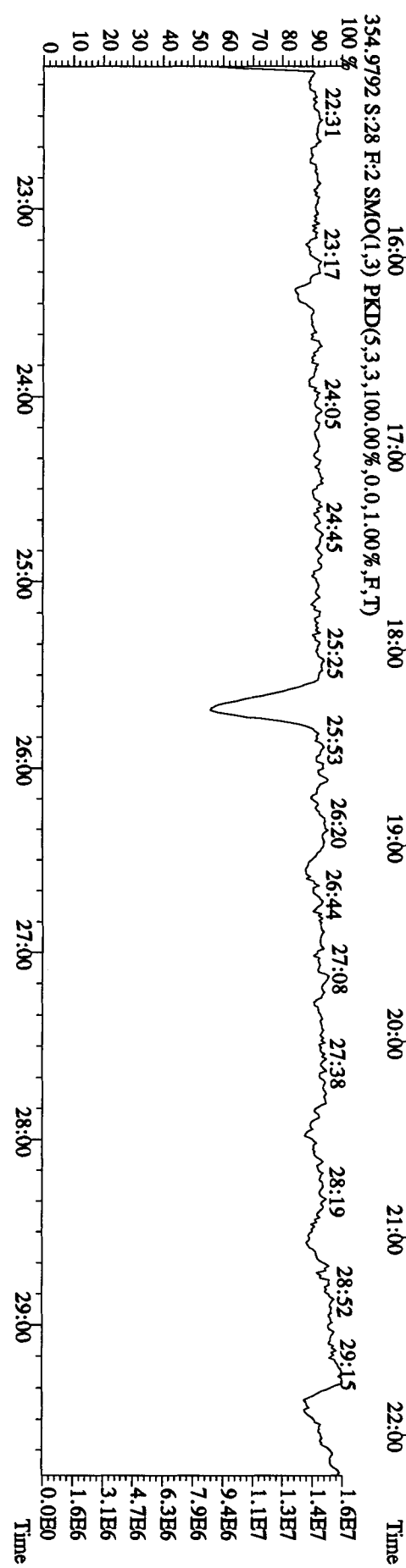
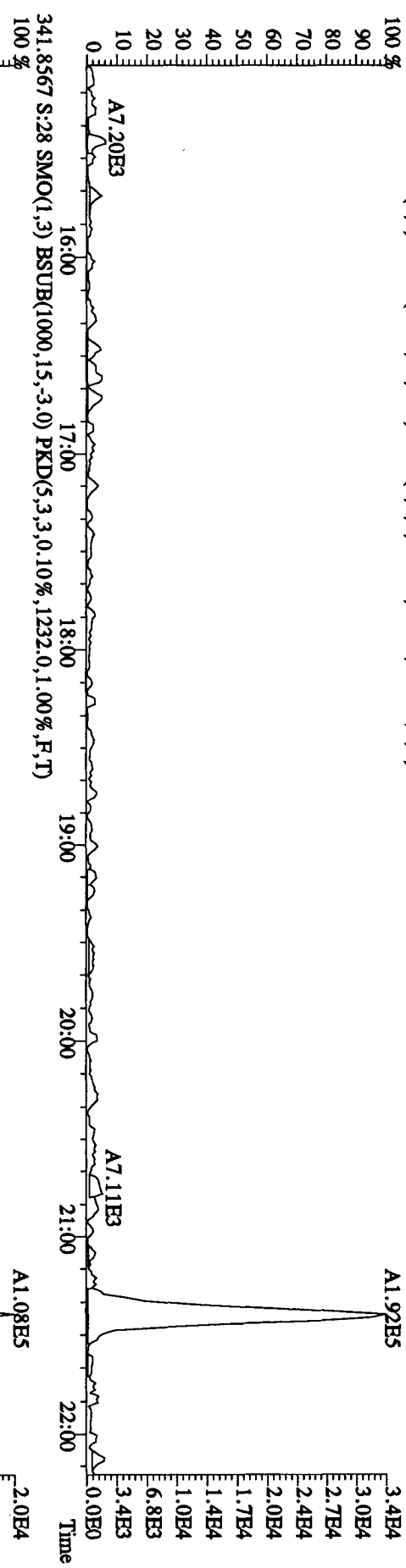
File: 21API0B4D5 #1-434 Acq: 22-APR-2010 16:55:08 GC EI + Voltage SIR Autospec-Ultimate  
 Sample# 28 Text: LX0W1-1-AA : GOD140559-2 Exp: DIOXINRES8290A  
 327.8847 S: 28 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1148,0,1,100%,F,T)



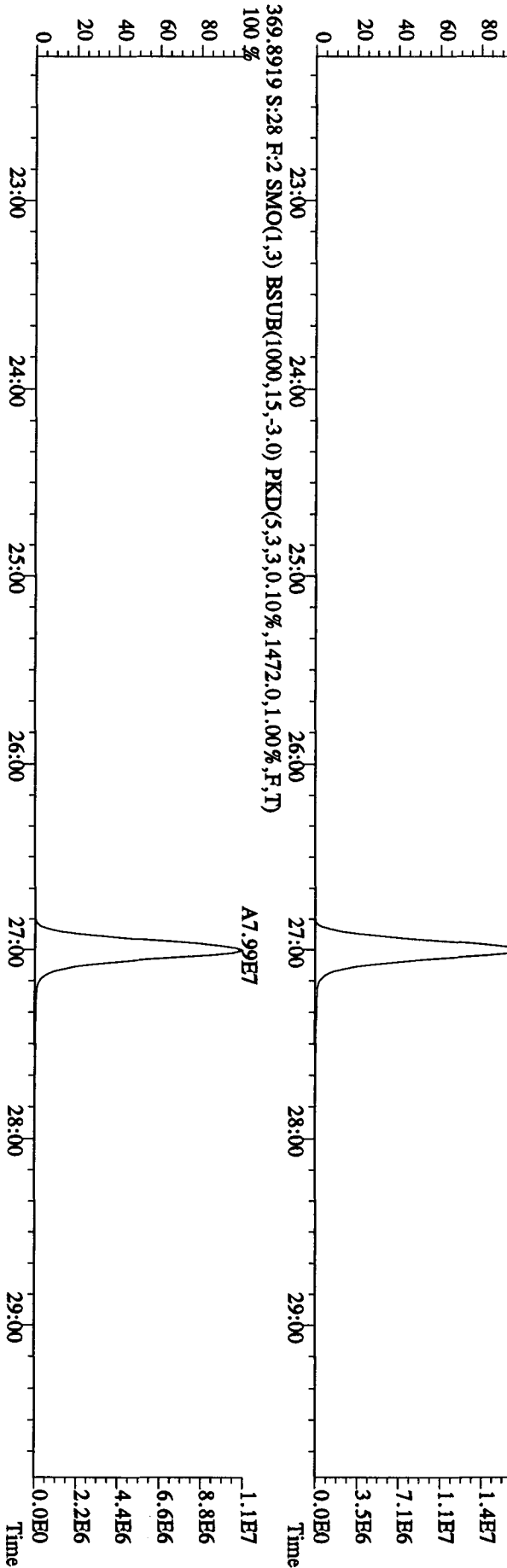
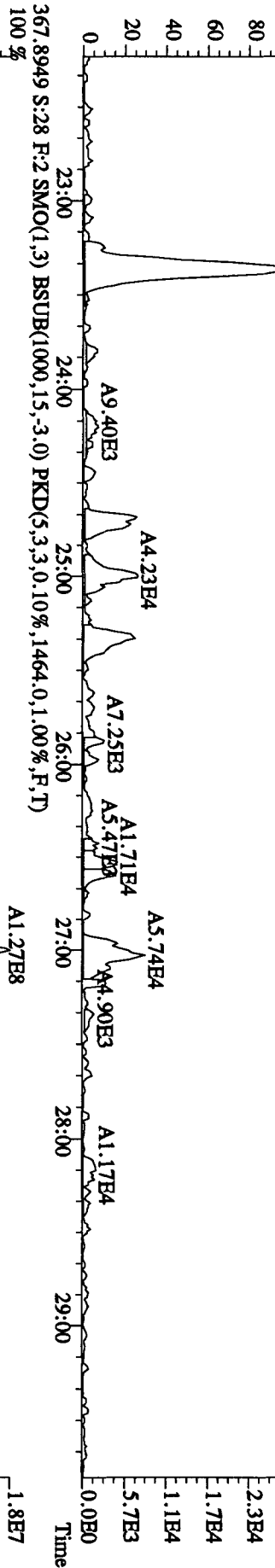
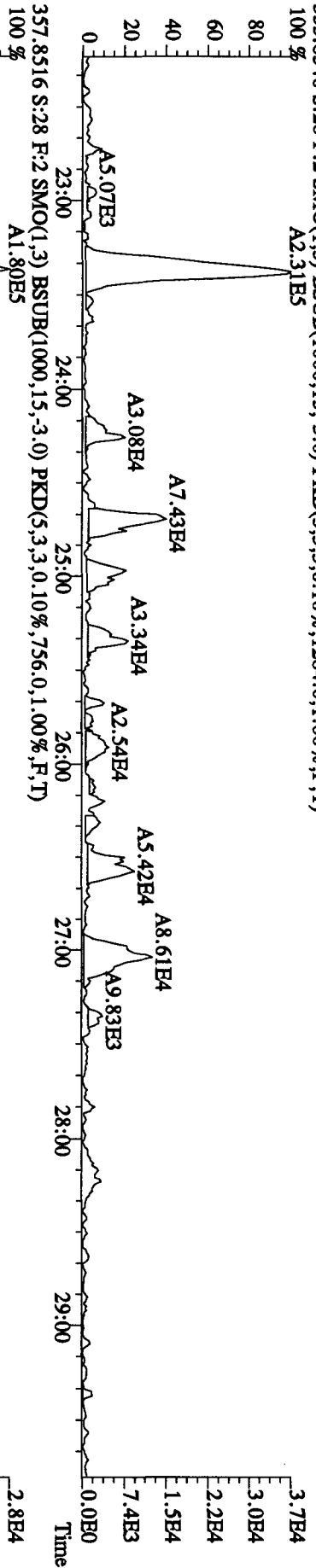
File: 21AP10B4D5 #1-604 Acq: 22-APR-2010 16:55:08 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#28 Text: LXOW1-1-AA :GOD140559-2 Exp: DIOXINRES8290A  
 339.8597 S:28 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,912.0,1.00%,F,T)  
 100% A2.77E5



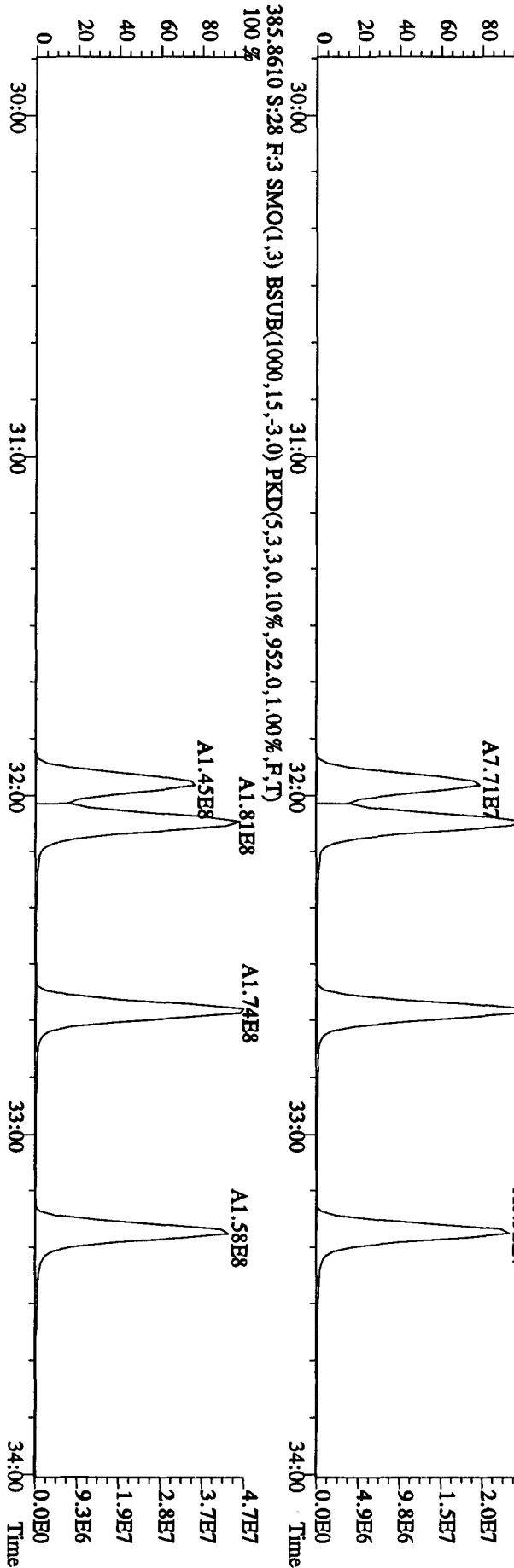
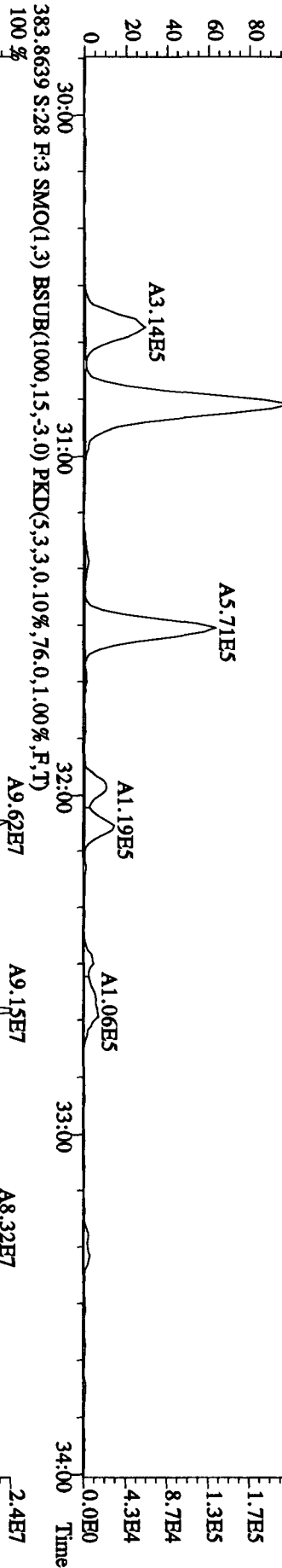
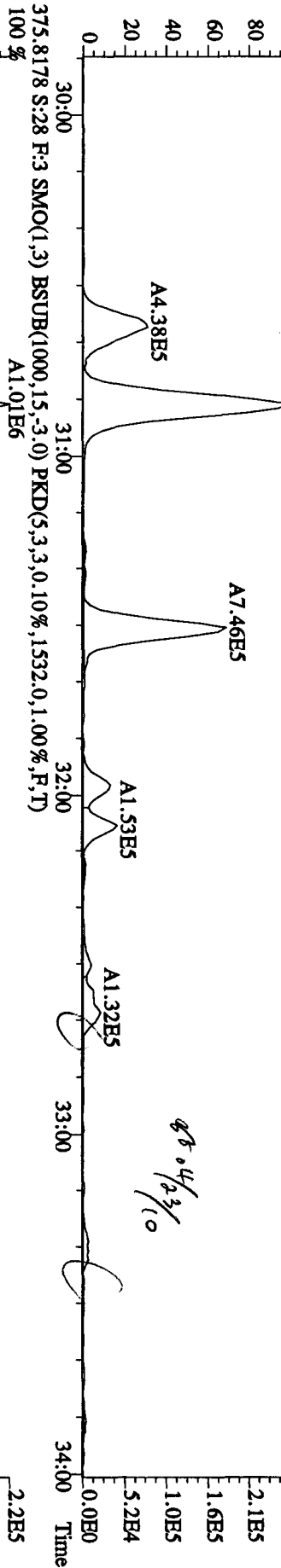
File: 21API10B4D5 #1-434 Acq: 22-APR-2010 16:55:08 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#28 Text: LIXOW1-1-AA :GOD140559-2 Exp: DIOXINRES8290A  
 339.8597 S:28 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,804.0,1.00%,F,T)



File:21AP10B4D5 #1-604 Acq:22-APR-2010 16:55:08 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#28 Text:LXOW1-1-AA :GOD140559-2 Exp:DIOXINRES8290A  
 355.8546 S:28 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1284,0,1.00%,F,T)

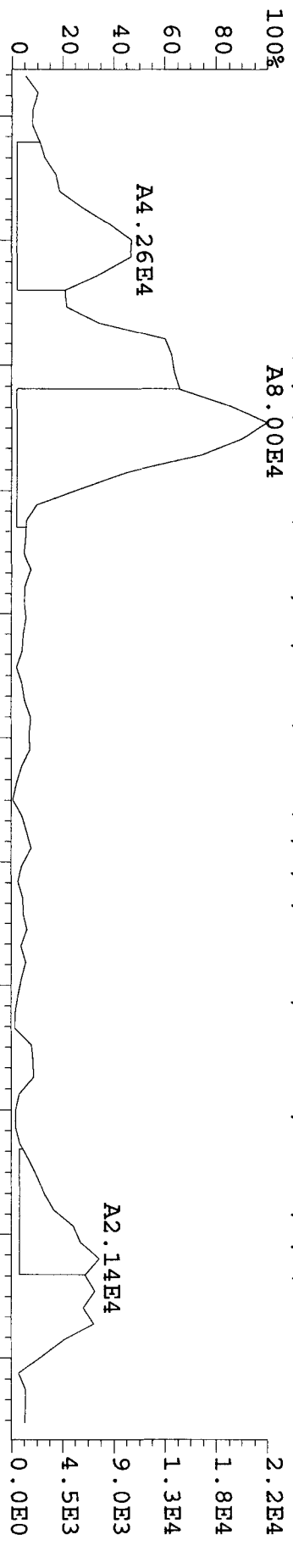


File: 21AP10B4D5 #1-317 Acq: 22-APR-2010 16:55:08 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#28 Text: LXOW1-1-AA :GOD140559-2 Exp: DIOXINRES8290A  
 373.8208 S:28 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1.668,0.1,0.00%,F,T)

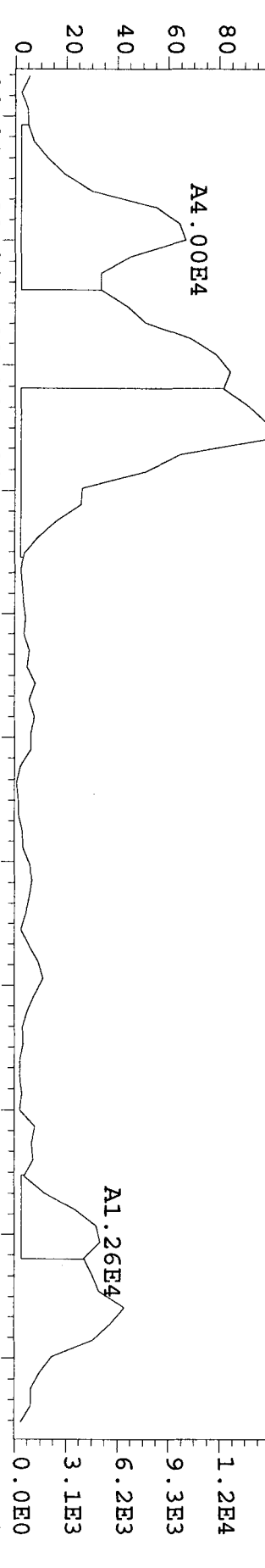


File: 21API0B4D5 #1-317 Acq: 22-APR-2010 16:55:08 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#28 Text: LX0W1-1-AA :GOD140559-2 Exp:DIOXINRES8290A

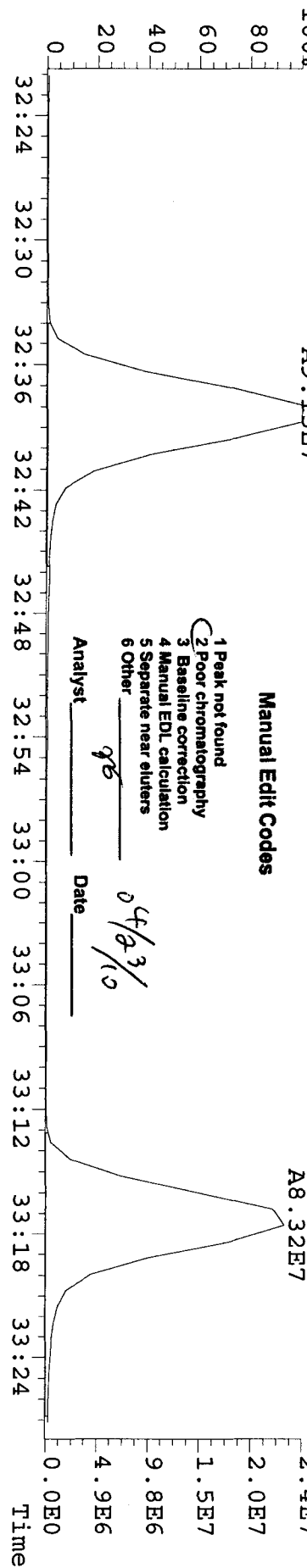
373.8208 S:28 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1668.0,1.00%,F,T)  
 100% A8.00E4



375.8178 S:28 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1532.0,1.00%,F,T)  
 100% A6.13E4



383.8639 S:28 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,76.0,1.00%,F,T)  
 100% A9.15E7

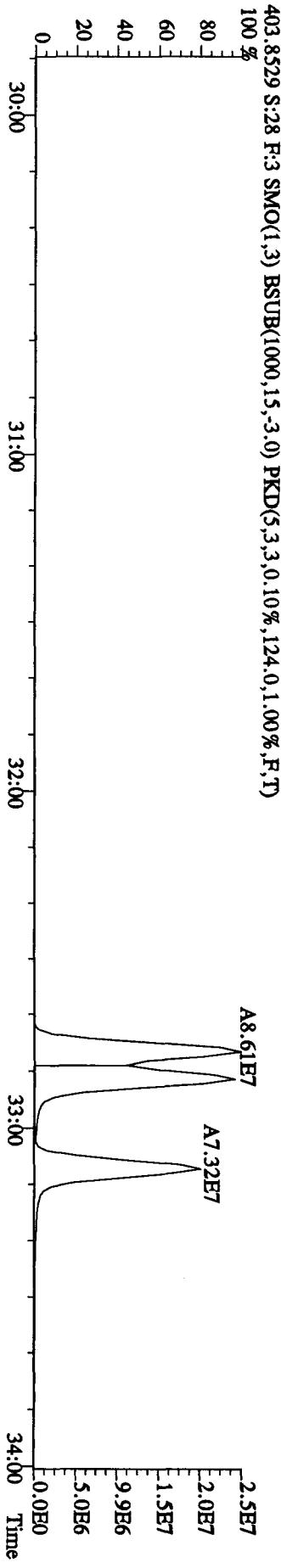
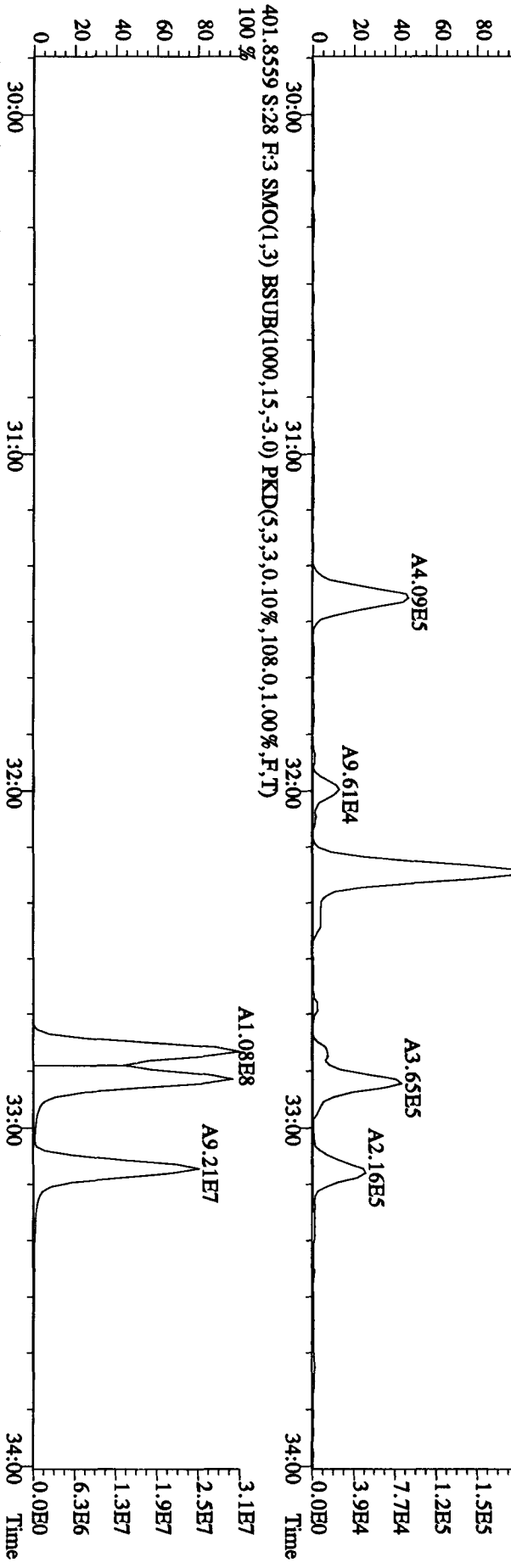
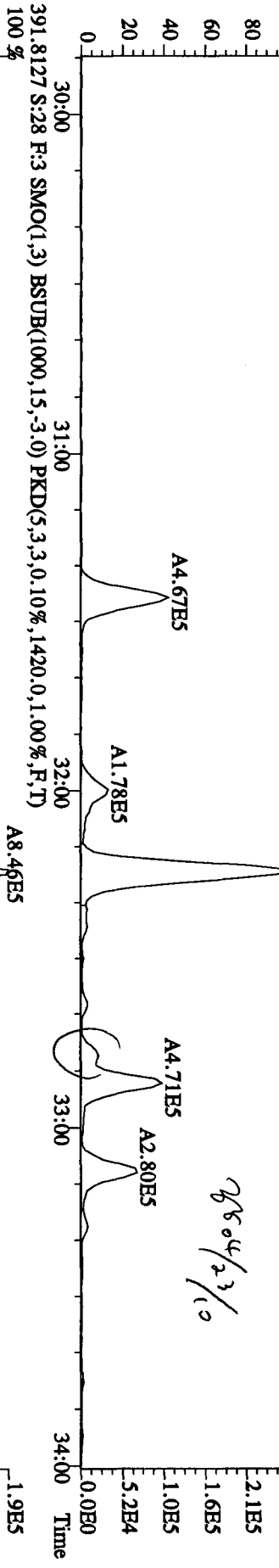


**Manual Edit Codes**

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

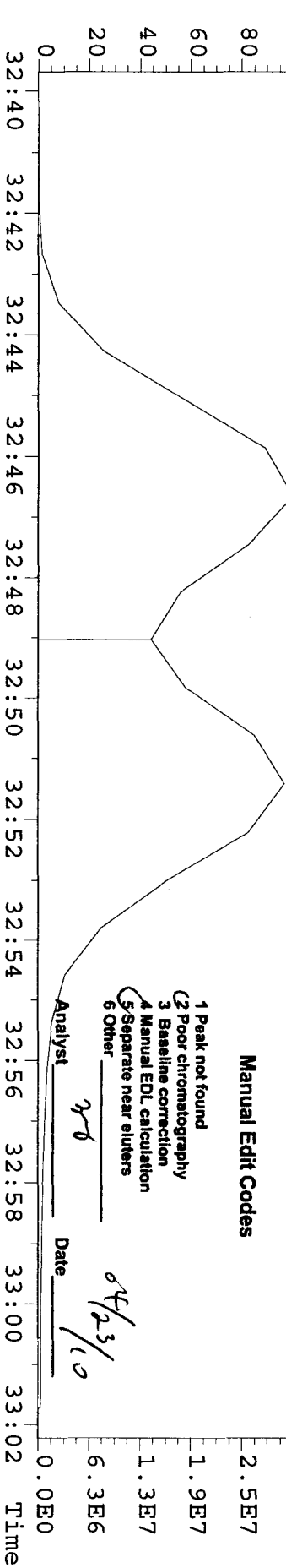
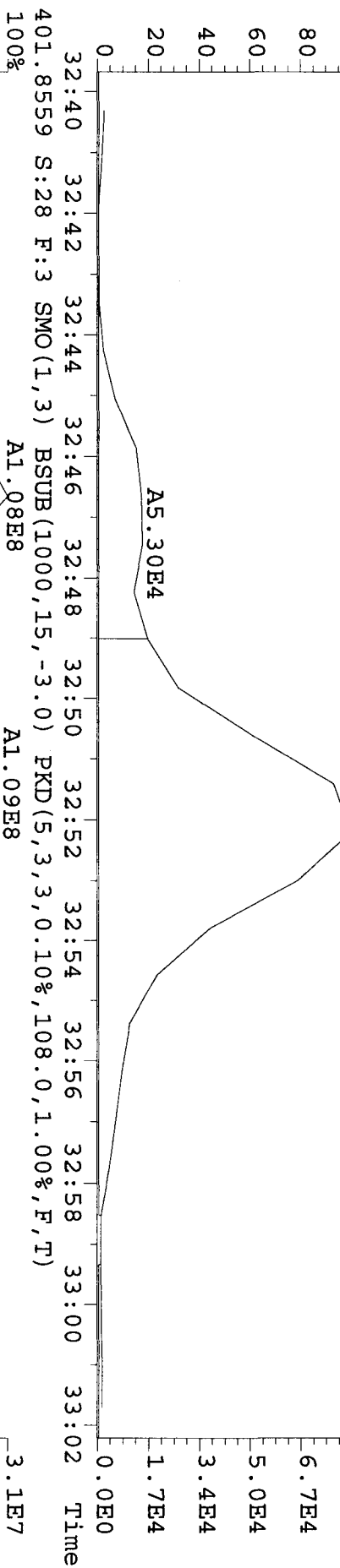
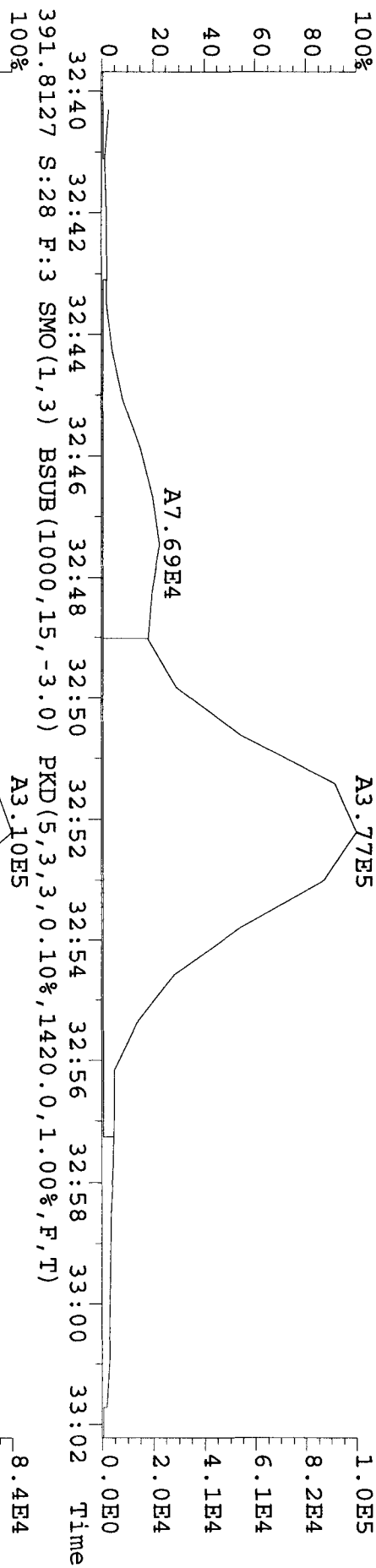
Analyst gb Date 04/23/10

File: 21AP10B4D5 #1-317 Acq: 22-APR-2010 16:55:08 GC EI + Voltage SIR Autospec-Ultimate  
 Sample#28 Text: LX0W1-1-AA :G0D140559-2 Exp: DIOXINRES8290A  
 389.8157 S:28 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,960,0,1.00%,F,T)





File: 21API0B4D5 #1-317 Acq: 22-APR-2010 16:55:08 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#28 Text: LX0W1-1-AA : GOD140559-2 Exp: DIOXINRES8290A  
 389.8157 S:28 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,960.0,1.00%,F,T)



**Manual Edit Codes**

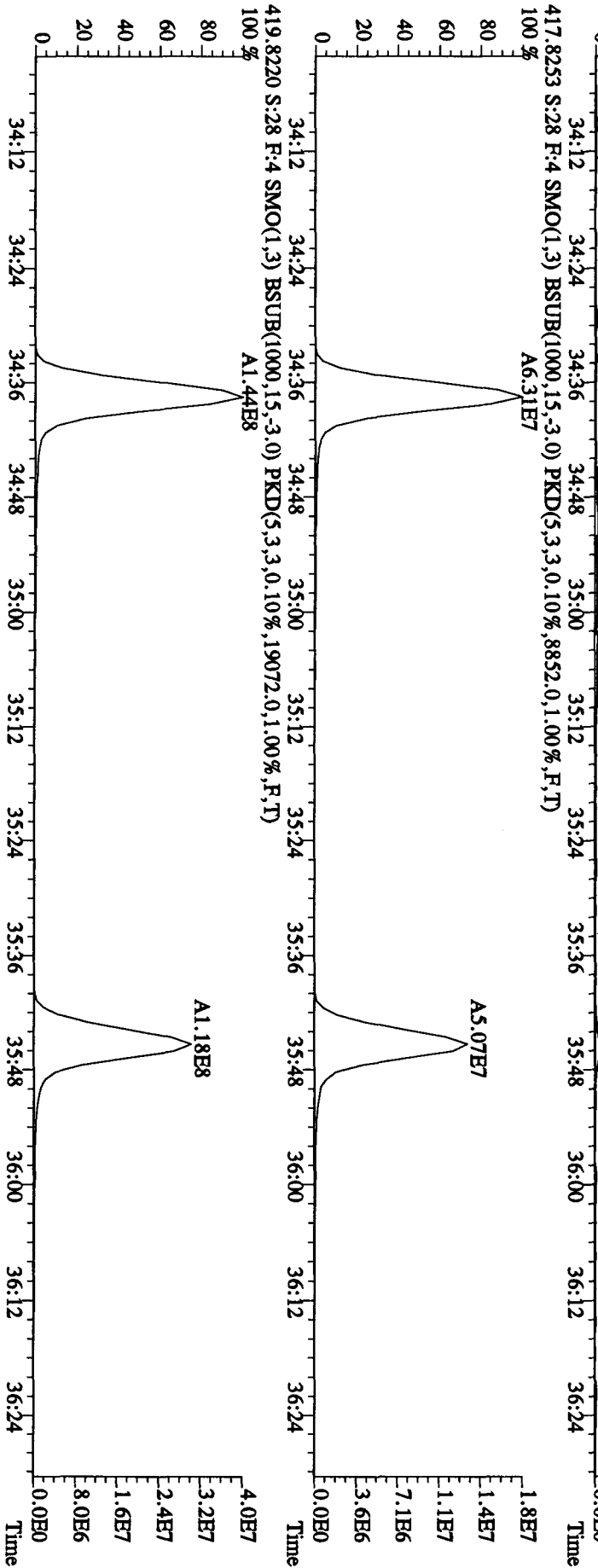
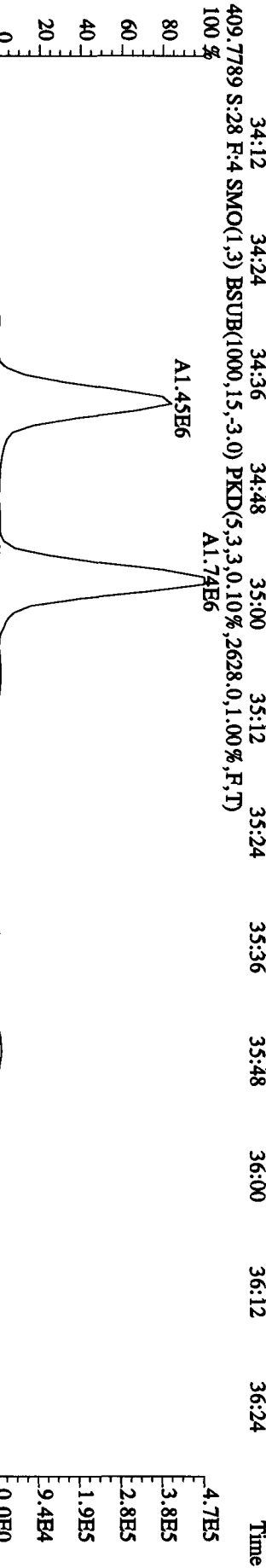
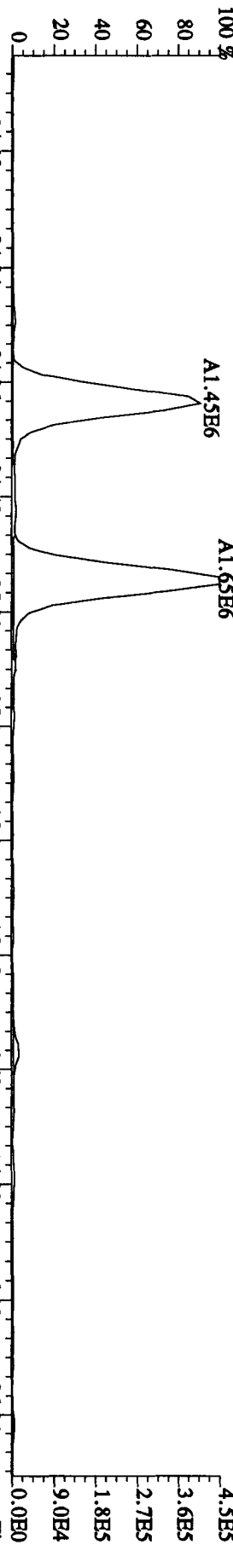
- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

Analyst nd

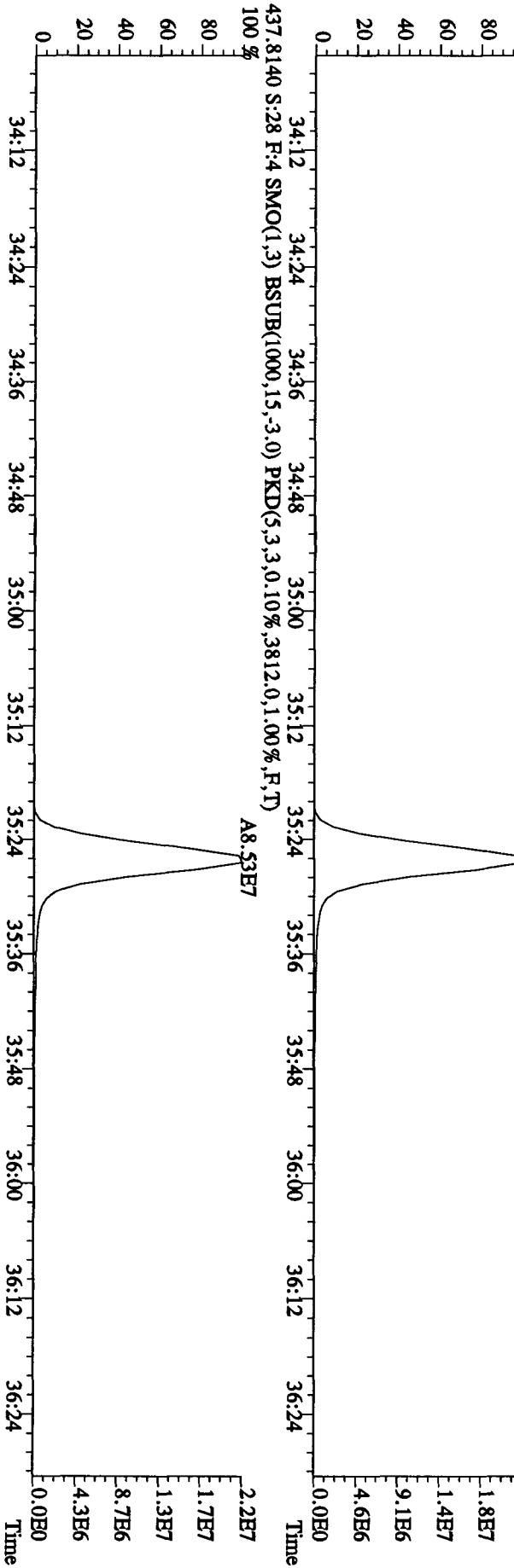
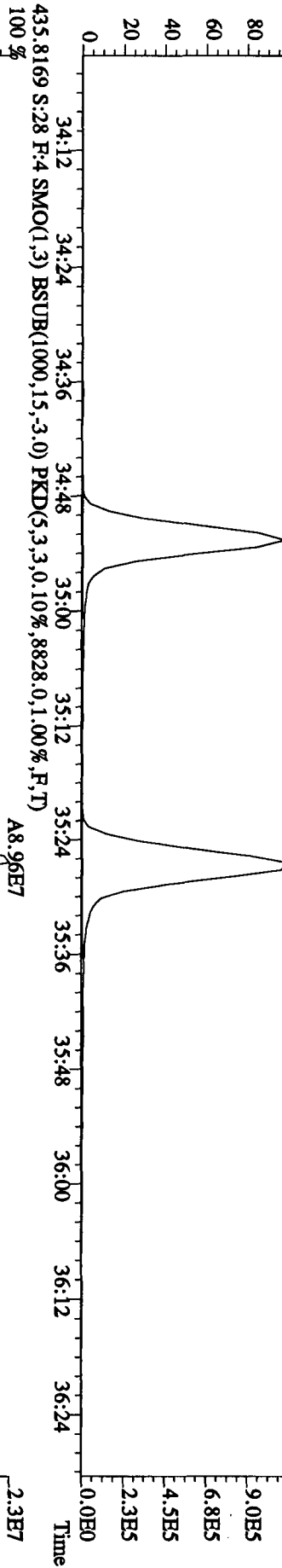
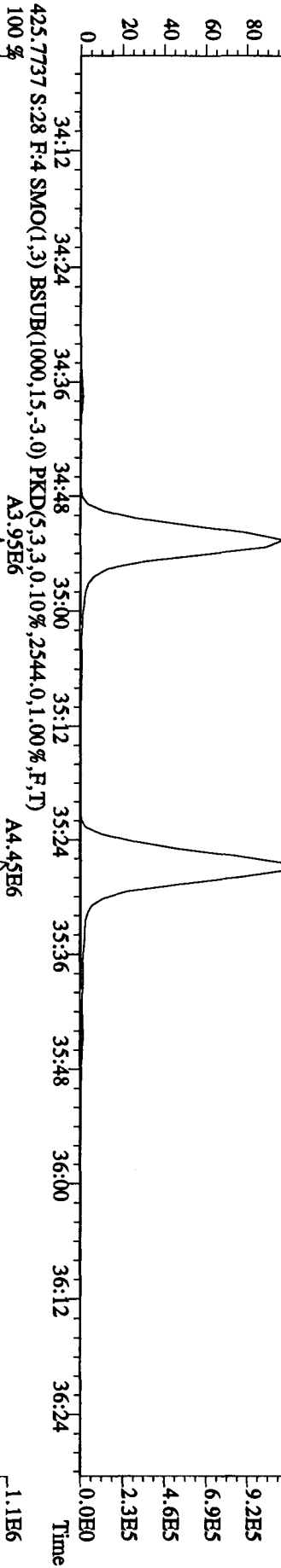
Date 04/23/10

File: 21AP10B4D5 #1-198 Acq: 22-APR-2010 16:55:08 GC EI+ Voltage SIR Autospec-Ultimate

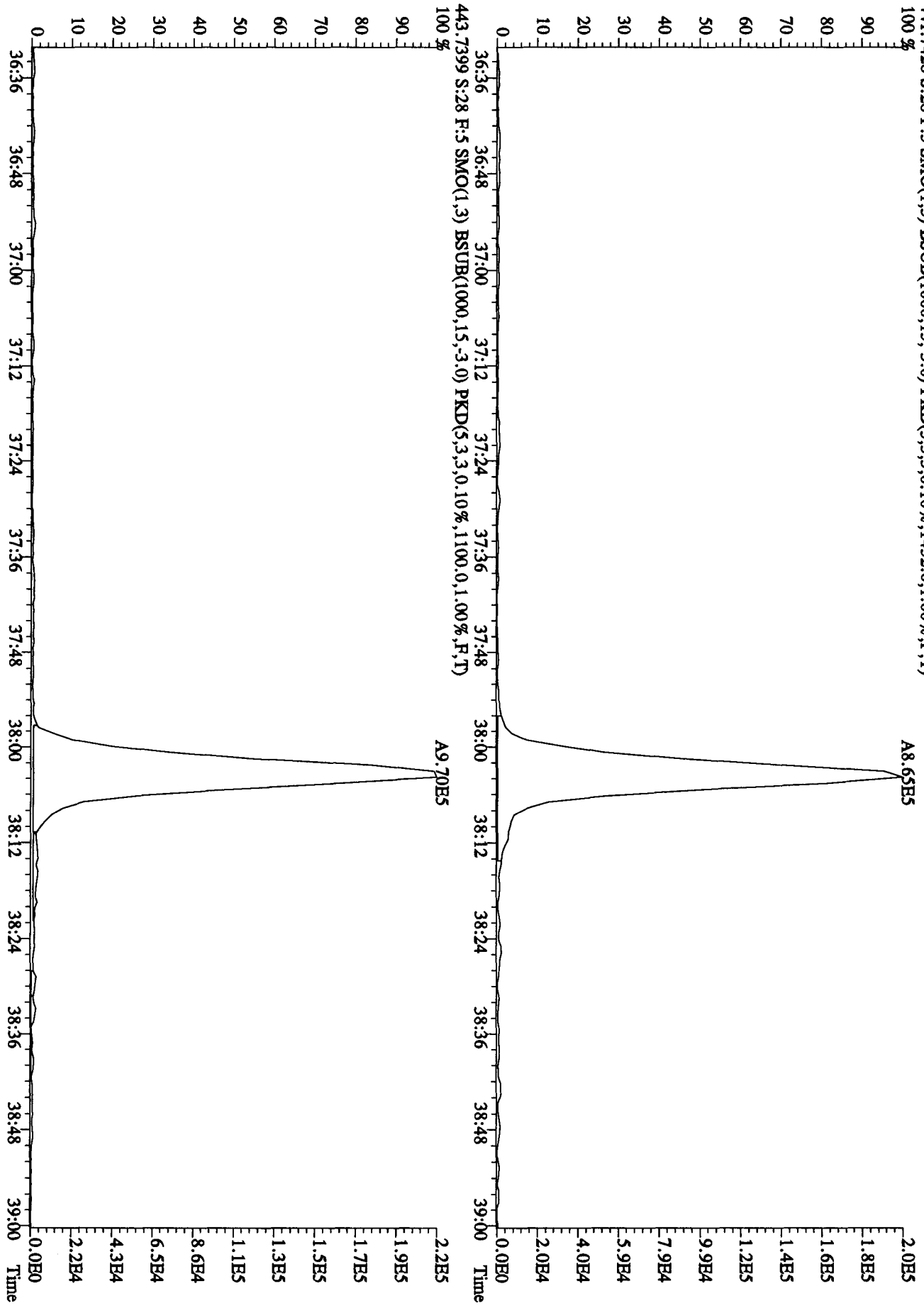
Sample#28 Text: LXXOW1-1-AA :GOD140559-2 Exp: DIOXINRES8290A



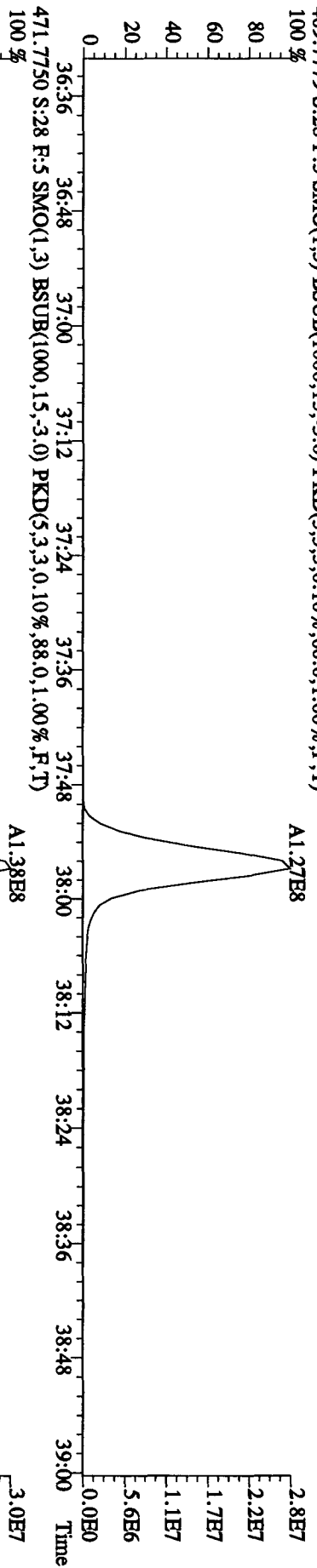
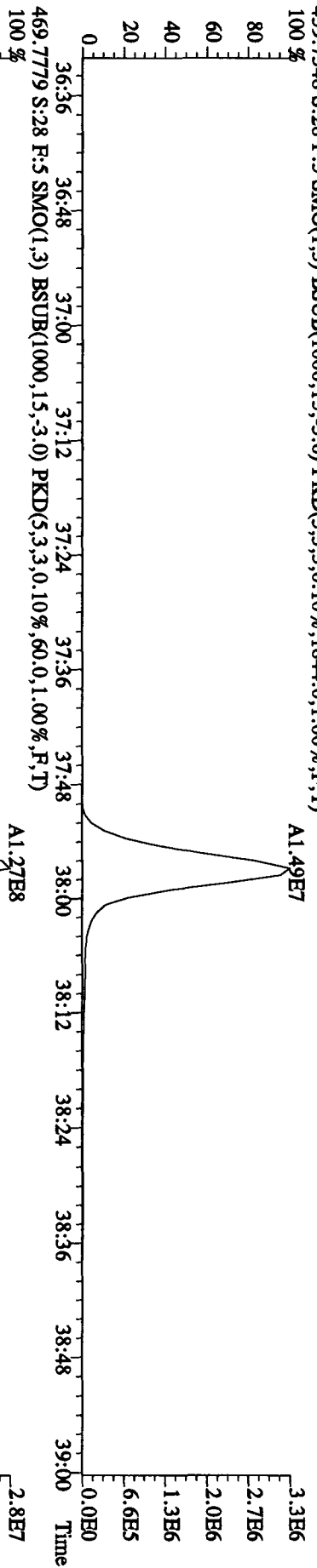
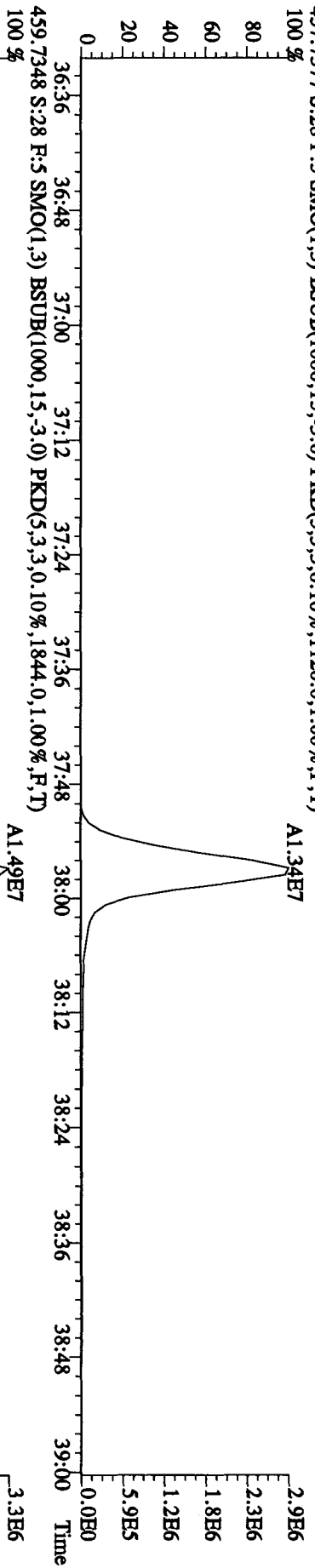
File: 21AP10B4D5 #1-198 Acq: 22-APR-2010 16:55:08 GC EI + Voltage SIR Autospec-Ultimate  
 Sample#28 Text: LX0W1-1-AA :GOD140559-2 Exp: DIOXINRES8290A  
 423.7766 S:28 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4160.0,1.00%,F,T) A4.10E6  
 100%



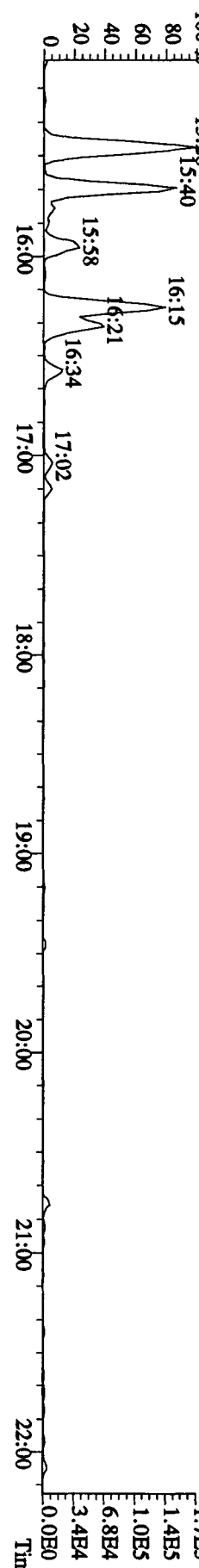
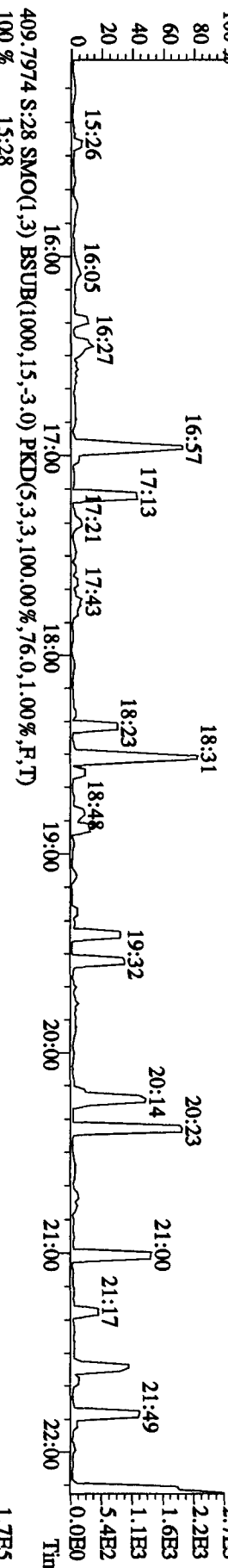
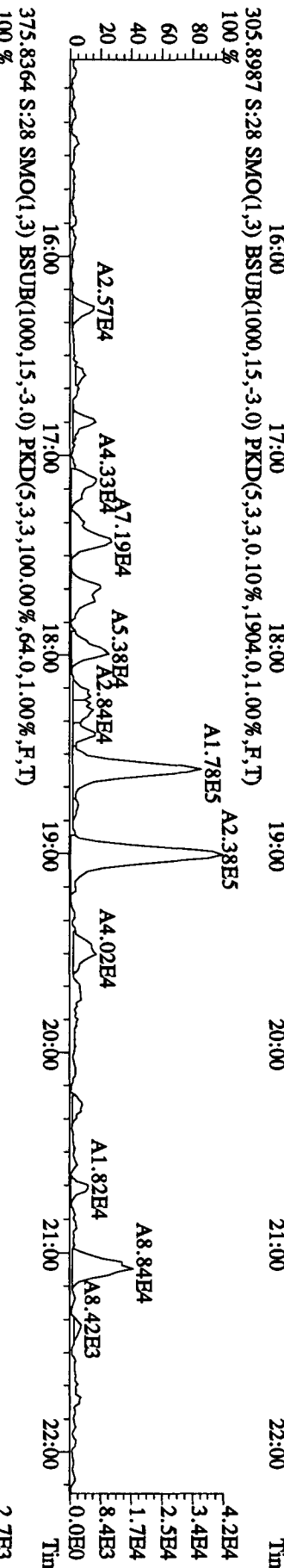
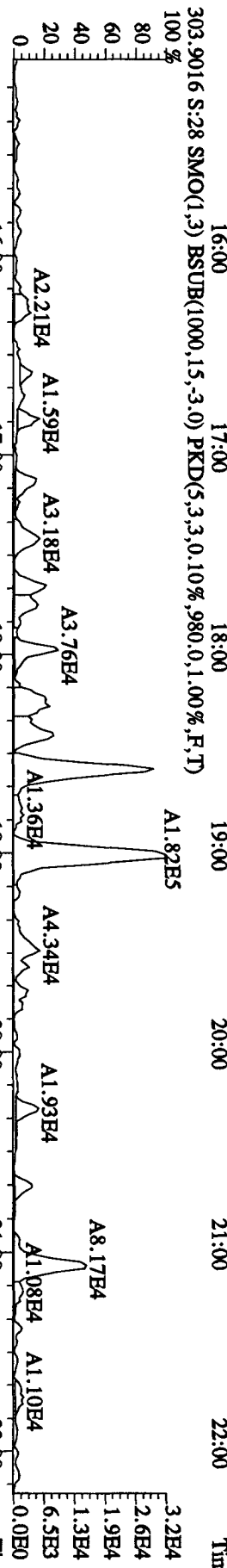
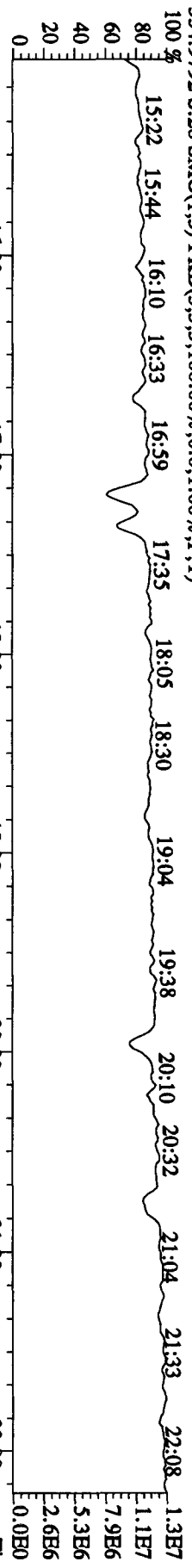
File:21AP10B4D5 #1-190 Acq:22-APR-2010 16:55:08 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#28 Text:LX0W1-1-AA :GOD140559-2 Exp:DIOXINRES8290A  
 441.7428 S:28 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1452.0,1.00%,F,T)



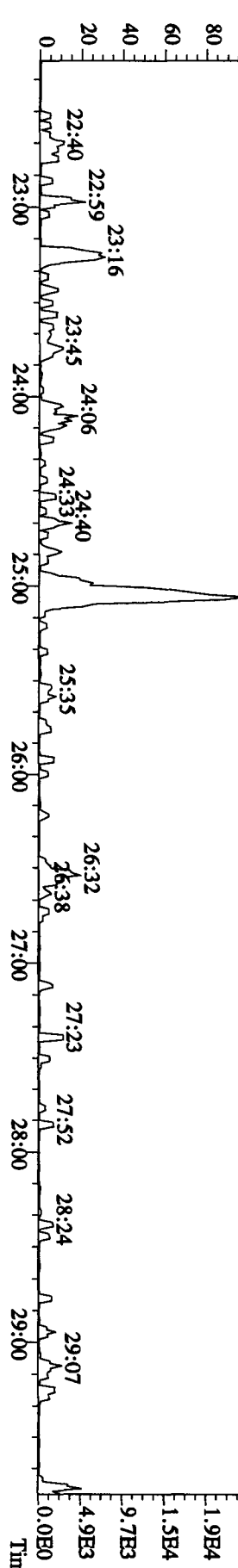
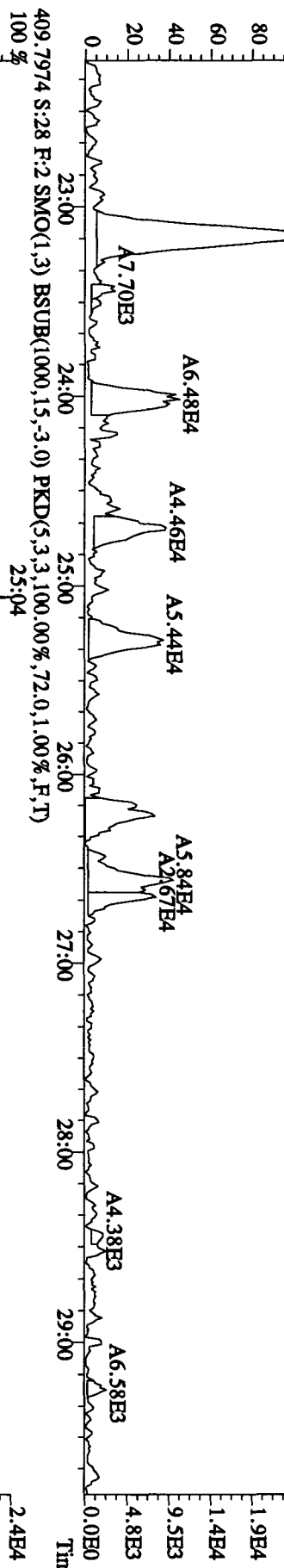
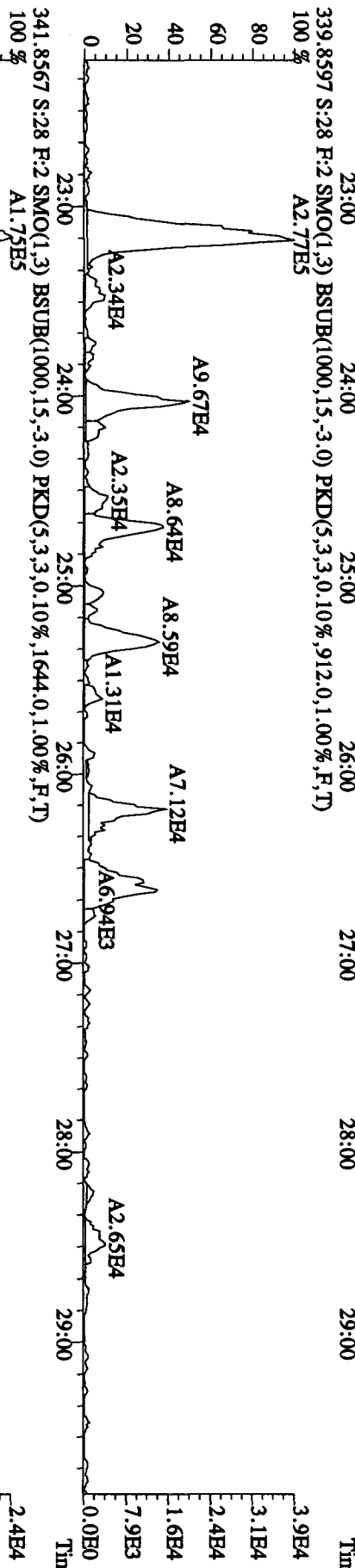
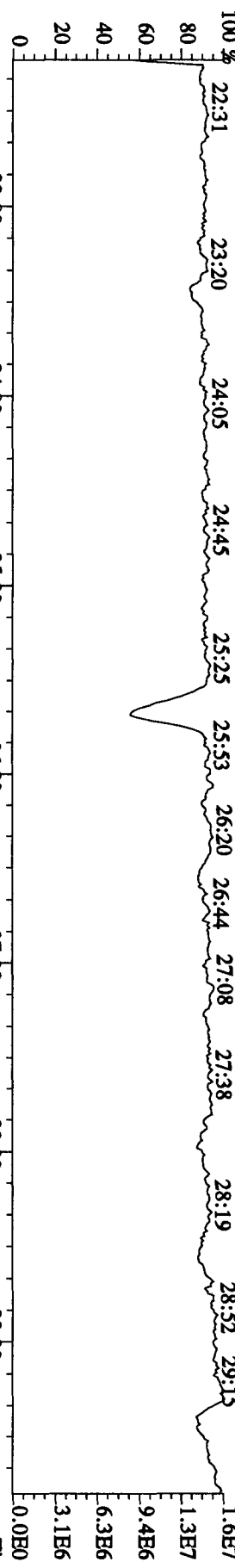
File:21AP10B4D5 #1-190 Acq:22-APR-2010 16:55:08 GC EI + Voltage SIR Autospec-UltimaE  
Sample#28 Text:LXOW1-1-AA :GOD140559-2 Exp:DIOXINRES8290A  
457.7377 S:28 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1120.0,1.00%,F,T) 100%



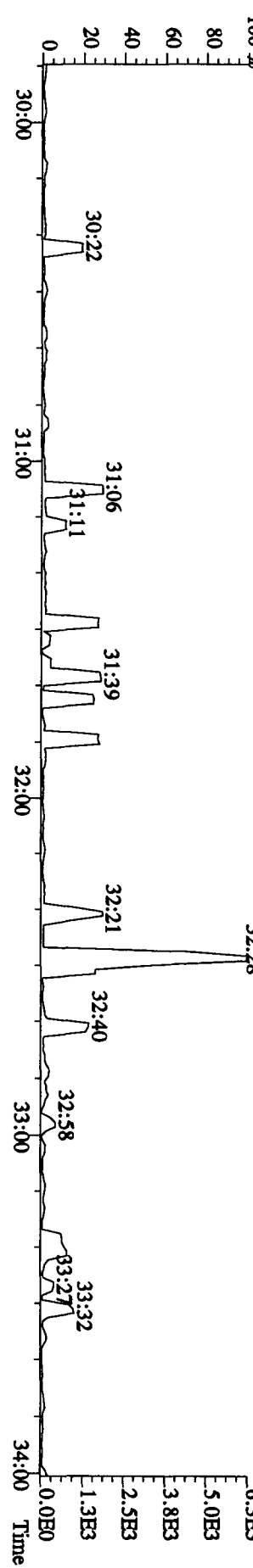
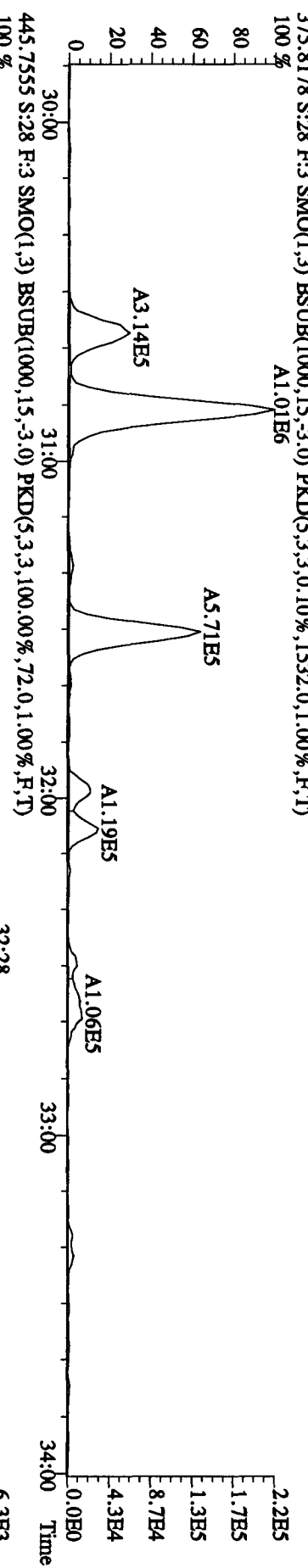
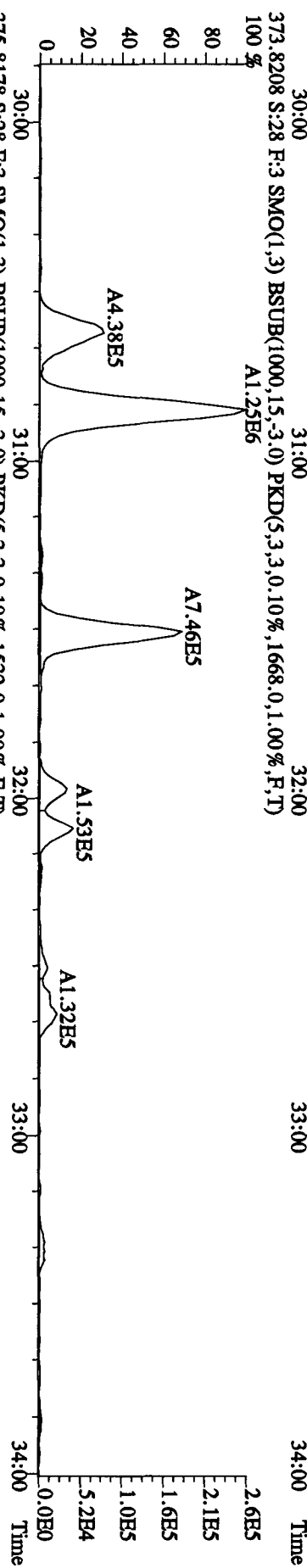
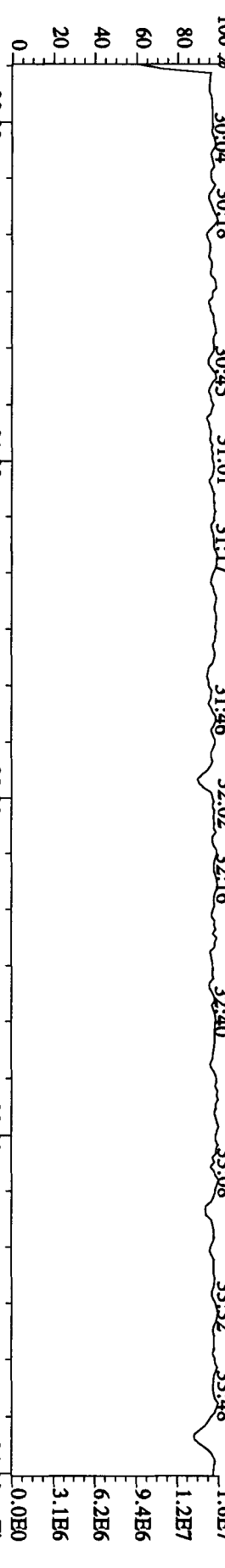
File: 21API084D5 #1-434 Acq: 22-APR-2010 16:55:08 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#28 Text: LX0W1-1-AA :G0D140559-2 Exp: DIOXINRES8290A



File: 21AP10B4D5 #1-604 Acq: 22-APR-2010 16:55:08 GC EI + Voltage SIR Autospec-Ultimate  
 Sample#28 Text: LIXOW1-1-AA :GOD140559-2 Exp: DIOXINRES8290A  
 354.9792 S:28 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



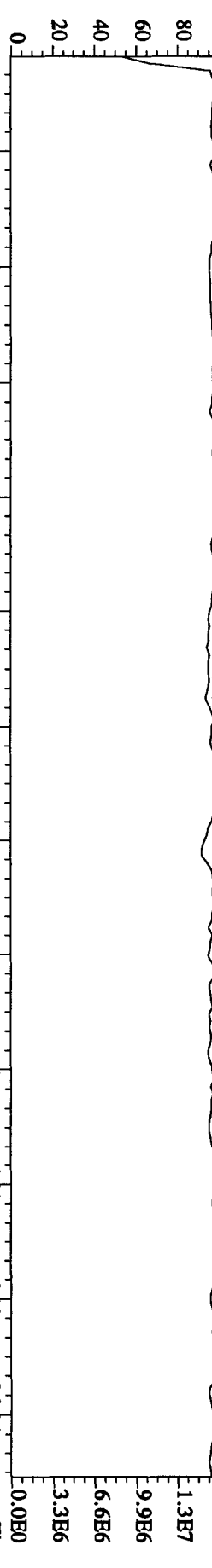
File: 21API010B4D5 #1-317 Acq: 22-APR-2010 16:55:08 GC EI + Voltage SIR Autospec-UltimaE  
 Sample#28 Text: LIXOW1-1-AA :GOD140559-2 Exp: DIOXINRES8290A



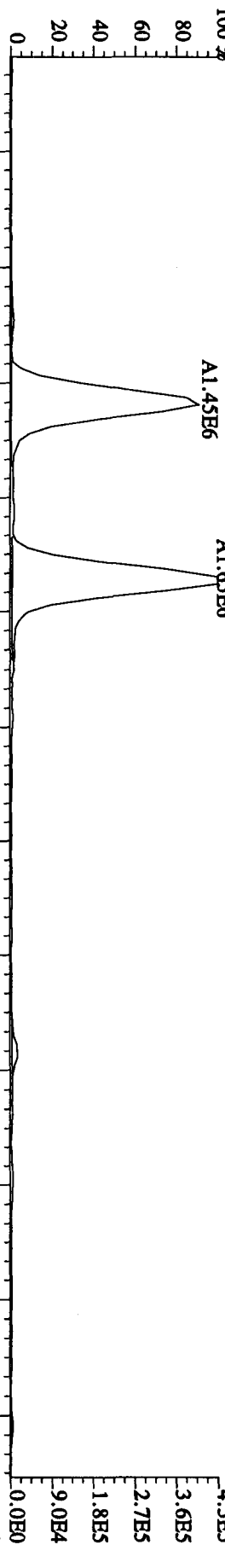


File:21AP10B4D5 #1-198 Acq:22-APR-2010 16:55:08 GC EI + Voltage SIR Autospec-Ultimate  
 Sample#28 Text:LXOW1-1-AA :GOD140559-2 Exp:DIOXINRES8290A

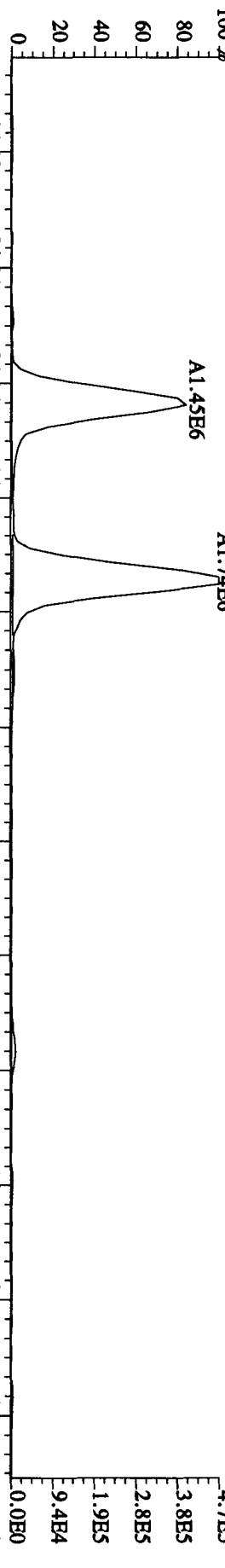
430.9728 S:28 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



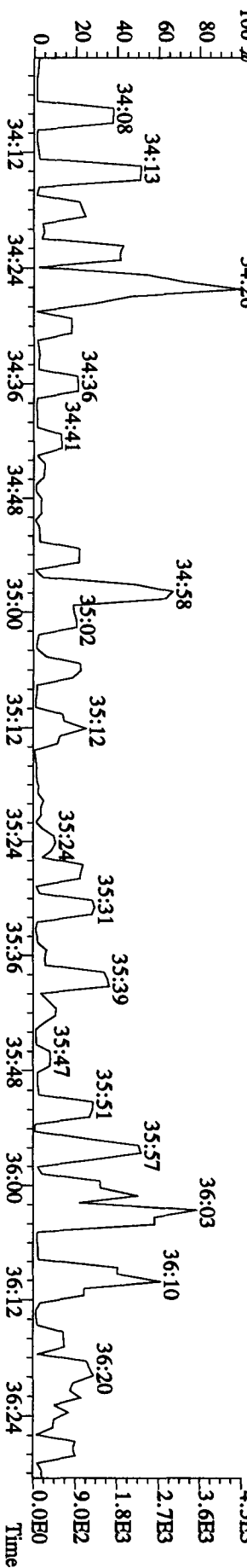
407.7818 S:28 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3436,0.1,0.0%,F,T)

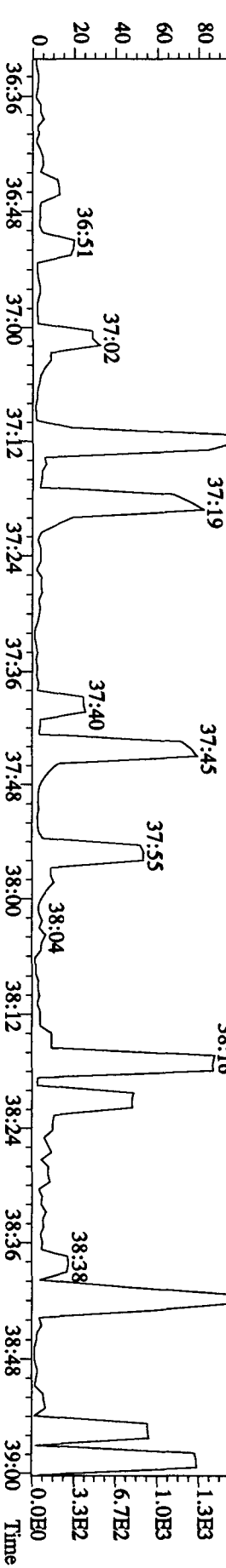
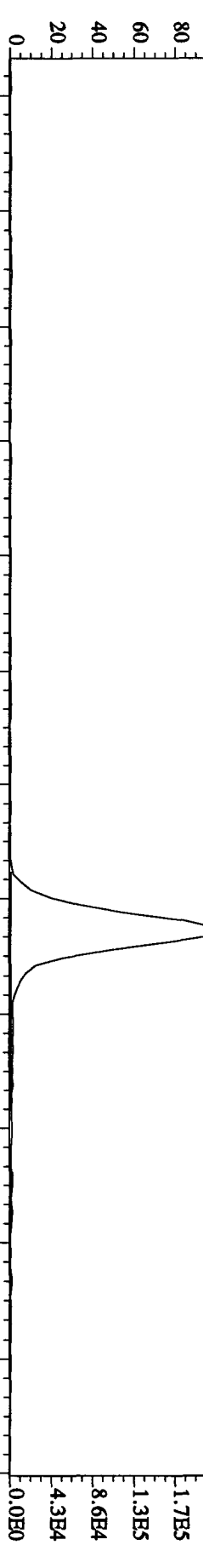
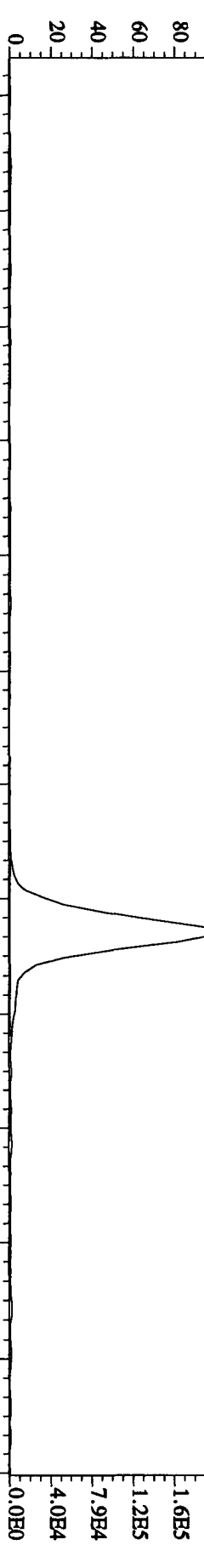
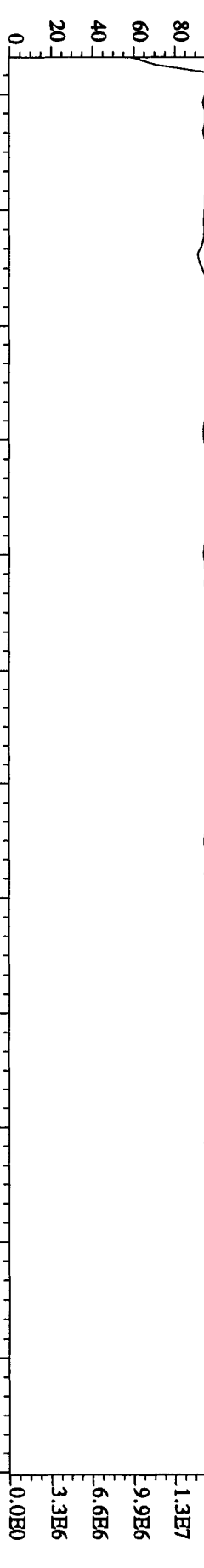


409.7789 S:28 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2628,0.1,0.0%,F,T)



479.7165 S:28 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,104,0.1,0.0%,F,T)





## Daily Calibration Checklist Dioxin Methods

Method ID 8290

Associated ICAL 8290A0412104AS

Column ID DB5

Instrument ID 4AS

STD ID ST0421C, ST0421D

STD Solution 10DXN111

Analyzed by AM, mg

Date Analyzed 4/22/10

Std. Pkg. By MG

Date Std. Pkg. Assembled 4/23/10

Std. Pkg. Reviewed By M.C.

Date Std. Pkg. Reviewed 4/23/10

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?	✓	✓
Ending Standard present?	✓	✓
Ending Static Resolutions present	✓	✓
Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (required for all 1613B samples)	NA	NA

COMMENTS: \_\_\_\_\_

\* Method 8290/TO9/M0023A: (beginning) ≤ 20% from curve RRFs for native analytes, ≤ 30% from curve RRFs for labeled compounds.

Method 8290/TO9/M0023A: (ending) ≤ 25% from curve RRFs for native analytes, ≤ 35% from curve RRFs for labeled compounds.

Method 23: See Method 23 Daily Standard Criteria, Table 5.

Method 1613B: See, Method 1613B or Method 1613B Tetras Daily Standard Criteria.

\*\* Method 23/0023A CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the smallest peak of the triplet

Method 1613B/8290/TO9 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Run text: ST0421C File text: ST0421C :CS3 10DXN111  
 Run #21 Filename 21AP10B4D5 S: 19 I: 1  
 Acquired: 22-APR-10 10:18:47 Processed: 22-APR-10 15:23:30  
 Run: 21AP10B4D5 Analyte: 8290A Cal: 8290A0412104D5 Results: 21AP10B4D58290A

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	178149200	0.80 y	19:34	-	100.00	-	n
13C-2,3,7,8-TCDF	285326000	0.79 y	18:59	1.60	100.00	5.3	n
2,3,7,8-TCDF	29314600	0.80 y	19:00	1.03	10.00	8.7	n
Total TCDF	29574718	0.70 y	17:59	1.03	10.00	8.7	n
13C-2,3,7,8-TCDD	179264100	0.81 y	19:46	1.01	100.00	6.0	n
2,3,7,8-TCDD	17328070	0.77 y	19:47	0.97	10.00	-5.3	n
Total TCDD	17328070	0.77 y	19:47	0.97	10.00	-5.3	n
37Cl-2,3,7,8-TCDD	41296000	1.00 y	19:47	2.32	10.00	2.5	n
13C-1,2,3,7,8-PeCDF	182027100	1.58 y	24:41	1.02	100.00	-2.7	n
1,2,3,7,8-PeCDF	94322300	1.56 y	24:42	1.04	50.00	-0.8	n
2,3,4,7,8-PeCDF	91441800	1.57 y	26:13	1.00	50.00	2.3	n
Total F2 PeCDF	187476928	1.56 y	23:08	1.02	100.00	0.7	n
Total F1 PeCDF	41400	0.21 n	15:41	1.02	100.00	0.7	n
13C-1,2,3,7,8-PeCDD	115612900	1.62 y	27:00	0.65	100.00	-3.2	n
1,2,3,7,8-PeCDD	54626900	1.56 y	27:02	0.94	50.00	-3.8	n
Total PeCDD	54626900	1.56 y	27:02	0.94	50.00	-3.8	n
13C-1,2,3,7,8,9-HxCDD	117376500	1.25 y	33:07	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	141712900	0.53 y	31:58	1.21	100.00	17.8	n
1,2,3,4,7,8-HxCDF	86123600	1.26 y	31:59	1.22	50.00	0.2	n
1,2,3,6,7,8-HxCDF	76268900	1.24 y	32:05	1.08	50.00	-19.8	n
2,3,4,6,7,8-HxCDF	72121100	1.25 y	32:39	1.02	50.00	-16.7	n
1,2,3,7,8,9-HxCDF	73193800	1.27 y	33:18	1.03	50.00	-5.4	n
Total HxCDF	307831259	1.03 n	30:52	1.09	200.00	-10.8	n
13C-1,2,3,6,7,8-HxCDD	95130200	1.28 y	32:51	0.81	100.00	0.4	n
1,2,3,4,7,8-HxCDD	49018400	1.27 y	32:47	1.03	50.00	2.4	n
1,2,3,6,7,8-HxCDD	53807200	1.29 y	32:52	1.13	50.00	1.6	n
1,2,3,7,8,9-HxCDD	62043900	1.28 y	33:08	1.30	50.00	7.9	n
Total HxCDD	164869500	1.27 y	32:47	1.16	150.00	4.1	n
13C-1,2,3,4,6,7,8-HpCDF	110739200	0.44 y	34:38	0.94	100.00	9.4	n
1,2,3,4,6,7,8-HpCDF	70685700	0.96 y	34:38	1.28	50.00	-2.5	n
1,2,3,4,7,8,9-HpCDF	60644300	0.96 y	35:46	1.10	50.00	6.8	n
Total HpCDF	131889700	0.96 y	34:38	1.19	100.00	1.6	n
13C-1,2,3,4,6,7,8-HpCDD	106546100	1.06 y	35:27	0.91	100.00	30.1	n
1,2,3,4,6,7,8-HpCDD	55104000	1.03 y	35:27	1.03	50.00	-3.5	n
Total HpCDD	55399557	1.04 y	34:53	1.03	50.00	-3.5	n
13C-OCDD	144865000	0.91 y	37:57	0.62	200.00	16.1	n
OCDF	102891300	0.90 y	38:04	1.42	100.00	-1.7	n
OCDD	84656900	0.89 y	37:58	1.17	100.00	0.2	n

Run text: ST0421D File text: ST0421D :CS3 10DXN111  
 Run #37 Filename 21AP10B4D5 S: 37 I: 1  
 Acquired: 22-APR-10 23:31:28 Processed: 23-APR-10 08:47:36  
 Run: 21AP10B4D5 Analyte: 8290A Cal: 8290A0412104D5 Results: 21AP10B4D58290A

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	185485100	0.81 y	19:32	-	100.00	-	n
13C-2,3,7,8-TCDF	287493000	0.79 y	18:58	1.55	100.00	1.9	n
2,3,7,8-TCDF	29139400	0.79 y	18:59	1.01	10.00	7.2	n
Total TCDF	29461807	0.77 y	17:57	1.01	10.00	7.2	n
13C-2,3,7,8-TCDD	182467300	0.80 y	19:45	0.98	100.00	3.6	n
2,3,7,8-TCDD	17318290	0.75 y	19:46	0.95	10.00	-7.0	n
Total TCDD	17331220	0.35 n	18:29	0.95	10.00	-7.0	n
37Cl-2,3,7,8-TCDD	42647200	1.00 y	19:46	2.30	10.00	1.7	n
13C-1,2,3,7,8-PeCDF	203218000	1.57 y	24:40	1.10	100.00	4.3	n
1,2,3,7,8-PeCDF	103439200	1.56 y	24:41	1.02	50.00	-2.6	n
2,3,4,7,8-PeCDF	101755900	1.59 y	26:11	1.00	50.00	2.0	n
Total F2 PeCDF	206603051	1.63 y	23:08	1.01	100.00	-0.4	n
Total F1 PeCDF	9998	0.16 n	16:43	1.01	100.00	-0.4	n
13C-1,2,3,7,8-PeCDD	139937200	1.60 y	27:00	0.75	100.00	12.5	n
1,2,3,7,8-PeCDD	66038700	1.58 y	27:01	0.94	50.00	-3.9	n
Total PeCDD	66038700	1.58 y	27:01	0.94	50.00	-3.9	n
13C-1,2,3,7,8,9-HxCDD	152482300	1.25 y	33:07	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	153932600	0.52 y	31:58	1.01	100.00	-1.5	n
1,2,3,4,7,8-HxCDF	95998500	1.26 y	31:58	1.25	50.00	2.9	n
1,2,3,6,7,8-HxCDF	100783800	1.27 y	32:06	1.31	50.00	-2.5	n
2,3,4,6,7,8-HxCDF	95986700	1.24 y	32:39	1.25	50.00	2.0	n
1,2,3,7,8,9-HxCDF	88039600	1.29 y	33:18	1.14	50.00	4.7	n
Total HxCDF	380976530	1.16 y	30:51	1.24	200.00	1.6	n
13C-1,2,3,6,7,8-HxCDD	122708300	1.28 y	32:52	0.80	100.00	-0.3	n
1,2,3,4,7,8-HxCDD	68622100	1.28 y	32:48	1.12	50.00	11.1	y
1,2,3,6,7,8-HxCDD	69620100	1.31 y	32:52	1.13	50.00	1.9	y
1,2,3,7,8,9-HxCDD	78653700	1.29 y	33:08	1.28	50.00	6.0	n
Total HxCDD	216895900	1.28 y	32:48	1.18	150.00	6.2	y
13C-1,2,3,4,6,7,8-HpCDF	134044900	0.43 y	34:38	0.88	100.00	1.9	n
1,2,3,4,6,7,8-HpCDF	85053600	0.94 y	34:38	1.27	50.00	-3.1	n
1,2,3,4,7,8,9-HpCDF	70243500	0.94 y	35:46	1.05	50.00	2.2	n
Total HpCDF	155297100	0.94 y	34:38	1.16	100.00	-0.8	n
13C-1,2,3,4,6,7,8-HpCDD	118039200	1.06 y	35:26	0.77	100.00	11.0	n
1,2,3,4,6,7,8-HpCDD	61644600	1.04 y	35:27	1.04	50.00	-2.6	n
Total HpCDD	61951234	1.06 y	34:53	1.04	50.00	-2.6	n
13C-OCDD	176372800	0.89 y	37:56	0.58	200.00	8.8	n
OCDF	123785200	0.90 y	38:03	1.40	100.00	-2.9	n
OCDD	102332200	0.90 y	37:57	1.16	100.00	-0.5	n

Run text: ST0421D File text: ST0421D :CS3 10DXN111  
 Run #37 Filename 21AP10B4D5 S: 37 I: 1  
 Acquired: 22-APR-10 23:31:28 Processed: 23-APR-10 08:47:36  
 Run: 21AP10B4D5 Analyte: 8290A Cal: 8290A0412104D5 Results: 21AP10B4D58290A

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	185485100	0.81 y	19:32	-	100.00	-	n
13C-2,3,7,8-TCDF	287493000	0.79 y	18:58	1.55	100.00	1.9	n
2,3,7,8-TCDF	29139400	0.79 y	18:59	1.01	10.00	7.2	n
Total TCDF	29461807	0.77 y	17:57	1.01	10.00	7.2	n
13C-2,3,7,8-TCDD	182467300	0.80 y	19:45	0.98	100.00	3.6	n
2,3,7,8-TCDD	17318290	0.75 y	19:46	0.95	10.00	-7.0	n
Total TCDD	17331220	0.35 n	18:29	0.95	10.00	-7.0	n
37Cl-2,3,7,8-TCDD	42647200	1.00 y	19:46	2.30	10.00	1.7	n
13C-1,2,3,7,8-PeCDF	203218000	1.57 y	24:40	1.10	100.00	4.3	n
1,2,3,7,8-PeCDF	103439200	1.56 y	24:41	1.02	50.00	-2.6	n
2,3,4,7,8-PeCDF	101755900	1.59 y	26:11	1.00	50.00	2.0	n
Total F2 PeCDF	206603051	1.63 y	23:08	1.01	100.00	-0.4	n
Total F1 PeCDF	9998	0.16 n	16:43	1.01	100.00	-0.4	n
13C-1,2,3,7,8-PeCDD	139937200	1.60 y	27:00	0.75	100.00	12.5	n
1,2,3,7,8-PeCDD	66038700	1.58 y	27:01	0.94	50.00	-3.9	n
Total PeCDD	66038700	1.58 y	27:01	0.94	50.00	-3.9	n
13C-1,2,3,7,8,9-HxCDD	152482300	1.25 y	33:07	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	153932600	0.52 y	31:58	1.01	100.00	-1.5	n
1,2,3,4,7,8-HxCDF	95998500	1.26 y	31:58	1.25	50.00	2.9	n
1,2,3,6,7,8-HxCDF	100783800	1.27 y	32:06	1.31	50.00	-2.5	n
2,3,4,6,7,8-HxCDF	95986700	1.24 y	32:39	1.25	50.00	2.0	n
1,2,3,7,8,9-HxCDF	88039600	1.29 y	33:18	1.14	50.00	4.7	n
Total HxCDF	380976530	1.16 y	30:51	1.24	200.00	1.6	n
13C-1,2,3,6,7,8-HxCDD	122708300	1.28 y	32:52	0.80	100.00	-0.3	n
1,2,3,4,7,8-HxCDD	60556384	1.43 n	32:48	0.99	50.00	-2.0	n
1,2,3,6,7,8-HxCDD	72686300	1.19 y	32:52	1.18	50.00	6.4	n
1,2,3,7,8,9-HxCDD	78653600	1.29 y	33:08	1.28	50.00	6.0	n
Total HxCDD	211896284	1.43 n	32:48	1.15	150.00	3.7	n
13C-1,2,3,4,6,7,8-HpCDF	134044900	0.43 y	34:38	0.88	100.00	1.9	n
1,2,3,4,6,7,8-HpCDF	85053600	0.94 y	34:38	1.27	50.00	-3.1	n
1,2,3,4,7,8,9-HpCDF	70243500	0.94 y	35:46	1.05	50.00	2.2	n
Total HpCDF	155297100	0.94 y	34:38	1.16	100.00	-0.8	n
13C-1,2,3,4,6,7,8-HpCDD	118039200	1.06 y	35:26	0.77	100.00	11.0	n
1,2,3,4,6,7,8-HpCDD	61644600	1.04 y	35:27	1.04	50.00	-2.6	n
Total HpCDD	61951234	1.06 y	34:53	1.04	50.00	-2.6	n
13C-OCDD	176372800	0.89 y	37:56	0.58	200.00	8.8	n
OCDF	123785200	0.90 y	38:03	1.40	100.00	-2.9	n
OCDD	102332200	0.90 y	37:57	1.16	100.00	-0.5	n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
21AP10B4D5	1	ST0421A	CS3 10DXN111				1.00000	
21AP10B4D5	2	ST0421B	CS3 10DXN111				1.00000	
21AP10B4D5	3	CP0421A	DB-5 CPSM 3732-05				1.00000	
21AP10B4D5	4	SB0421A	Solvent Blank C-14				1.00000	
21AP10B4D5	5	LX3LQ-1-AA	G0D160000-253B	20	8290/WATER	72	1.00000	L
21AP10B4D5	6	LX3LQ-1-AC	G0D160000-253C	20	8290/WATER		1.00000	L
21AP10B4D5	7	LX2RV-1-AC	G0D150603-15	20	8290/WATER		1.02880	L
21AP10B4D5	8	LX2RW-1-AC	G0D150603-16	20	8290/WATER		1.01190	L
21AP10B4D5	9	LX2RX-1-AC	G0D150603-17	20	8290/WATER		0.96070	L
21AP10B4D5	10	LX2RG-1-AD	G0D150603-10	20	8290/SOLID		10.15000	g
21AP10B4D5	11	LX2RH-1-AD	G0D150603-11	20	8290/SOLID		10.02000	g
21AP10B4D5	12	LX2RQ-1-AD	G0D150603-12	20	8290/SOLID		10.48000	g
21AP10B4D5	13	LX2RR-1-AD	G0D150603-13	20	8290/SOLID		10.65000	g
21AP10B4D5	14	LX2RT-1-AD	G0D150603-14	20	8290/SOLID		10.01000	g
21AP10B4D5	15	LX45M-1-AD	G0D160601-1	20	8290/SOLID		10.16000	g
21AP10B4D5	16	LX45Q-1-AD	G0D160601-2	20	8290/SOLID		10.01000	g
21AP10B4D5	17	LX45R-1-AD	G0D160601-3	20	8290/SOLID		10.18000	g
21AP10B4D5	18	SB0421B	Solvent Blank C-14				1.00000	
21AP10B4D5	19	ST0421C	CS3 10DXN111				1.00000	
21AP10B4D5	20	CP0421B	DB-5 CPSM 3732-05				1.00000	
21AP10B4D5	21	SB0421C	Solvent Blank C-14				1.00000	
21AP10B4D5	22	LX48J-1-AA	G0D160000-365B	20	8290/SOLID	72	10.00000	g
21AP10B4D5	23	LX48J-1-AC	G0D160000-365C	20	8290/SOLID		10.00000	g
21AP10B4D5	24	LX3LL-1-AA	G0D160000-252B	10	8290/WATER	73	1.00000	L
21AP10B4D5	25	LX3LL-1-AC	G0D160000-252C	10	8290/WATER		1.00000	L
21AP10B4D5	26	LX3LL-1-AD	G0D160000-252L	10	8290/WATER		1.00000	L
21AP10B4D5	27	LX0W0-1-AA	G0D140559-1	10	8290/WATER		1.05900	L
21AP10B4D5	28	LX0W1-1-AA	G0D140559-2	10	8290/WATER		1.05850	L
21AP10B4D5	29	LX3LQ-1-AC	G0D150000-215C	20	8290/WATER	72	1.00000	L
21AP10B4D5	30	LX3LQ-1-AA	G0D150000-215B	20	8290/WATER		1.00000	L
21AP10B4D5	31	LXVM2-1-AA	G0D120488-1	20	8290/WATER		1.00640	L
21AP10B4D5	32	LXM7T-1-AED	G0D080425-22D	20	8290/SOLID	74	10.38000	g
21AP10B4D5	33	LXM73-1-AD	G0D080425-28	20	8290/SOLID		10.25000	g
21AP10B4D5	34	LXM8R-1-AD	G0D080425-35	20	8290/SOLID		10.17000	g
21AP10B4D5	35	LX1XL-1-AC	G0D080425-47	20	8290/SOLID		10.14000	g
21AP10B4D5	36	SB0421D	Solvent Blank C-14				1.00000	
21AP10B4D5	37	ST0421D	CS3 10DXN111				1.00000	
21AP10B4D5	38	CP0421C	DB-5 CPSM 3732-05				1.00000	
21AP10B4D5	39	SB0421E	Solvent Blank C-14				1.00000	
21AP10B4D5	40	LX1X4-1-AC	G0D080425-48	20	8290/SOLID	74	10.34000	g
21AP10B4D5	41	LX0W3-1-AC	G0D140560-1	20	8290/SOLID		10.06000	g
21AP10B4D5	42	LX0W3-1-AD	G0D140560-1S	20	8290/SOLID		10.33000	g
21AP10B4D5	43	LX0W3-1-AE	G0D140560-1D	20	8290/SOLID		10.00000	g
21AP10B4D5	44	LX0W4-1-AC	G0D140560-2	20	8290/SOLID		10.31000	g
21AP10B4D5	45	LX7DK-1-AC	G0D190000-426C	20	8290/WATER	74	1.00000	L
21AP10B4D5	46	LX7DK-1-AA	G0D190000-426B	20	8290/WATER		1.00000	L
21AP10B4D5	47	LX452-1-AC	G0D160601-9	20	8290/WATER		0.97360	L
21AP10B4D5	48	LX453-1-AC	G0D160601-10	20	8290/WATER		0.97120	L
21AP10B4D5	49	SB0421F	Solvent Blank C-14				1.00000	
21AP10B4D5	50	ST0421E	CS3 10DXN111 BAD INJ				1.00000	
21AP10B4D5	51	ST0421F	CS3 10DXN111				1.00000	
21AP10B4D5	52						1.00000	
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21AP10B4D5 55

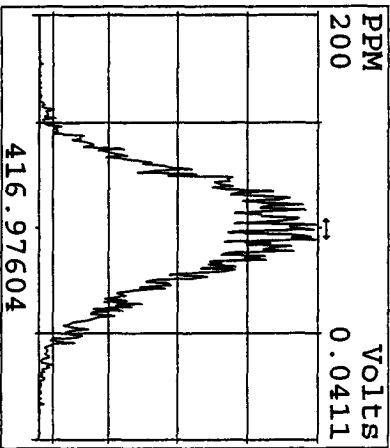
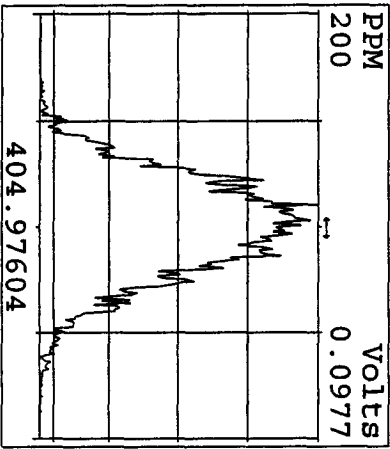
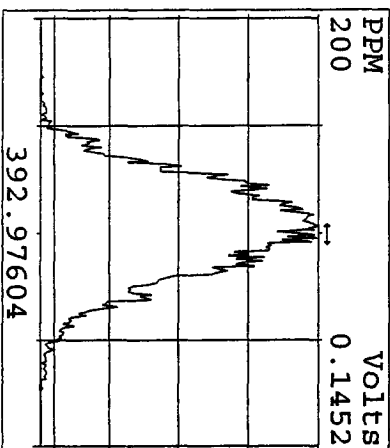
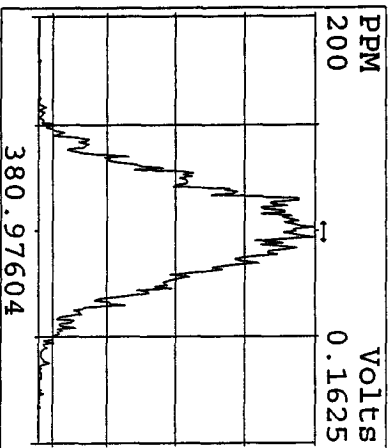
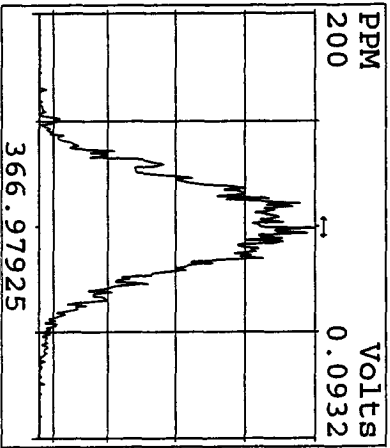
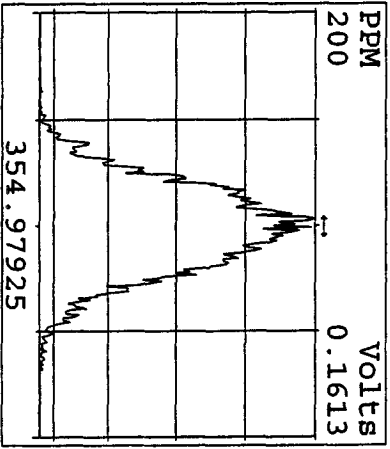
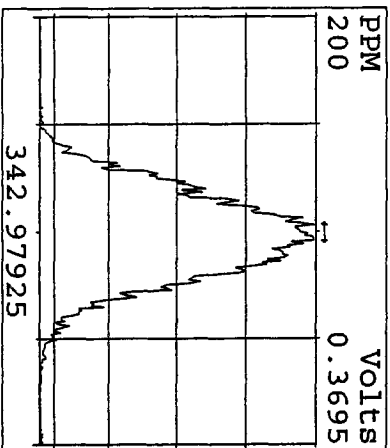
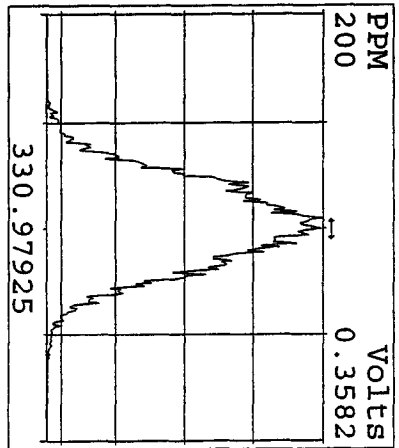
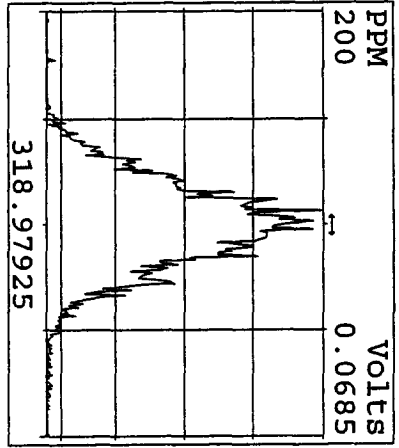
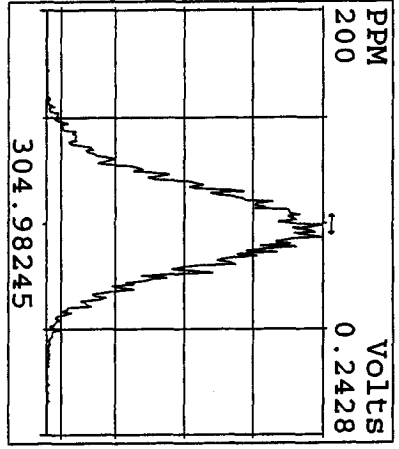
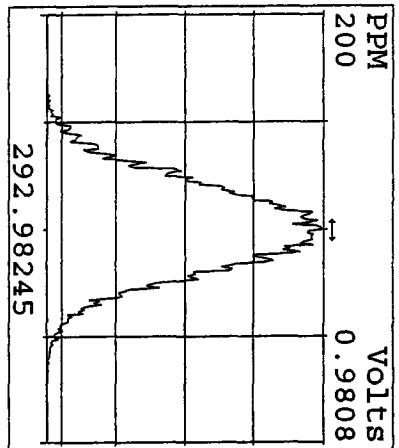
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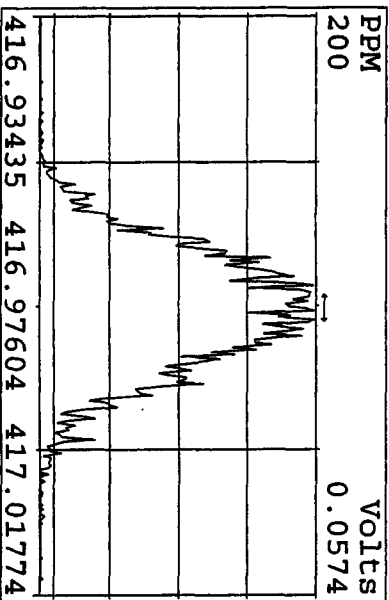
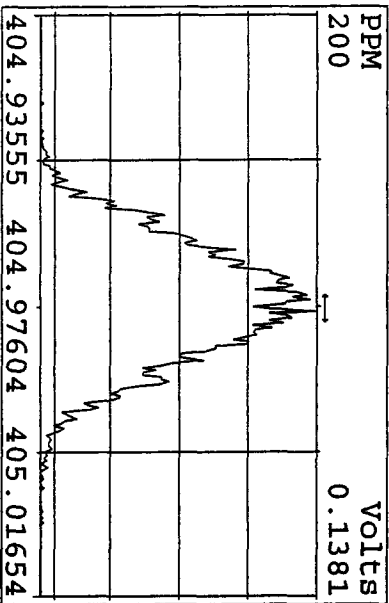
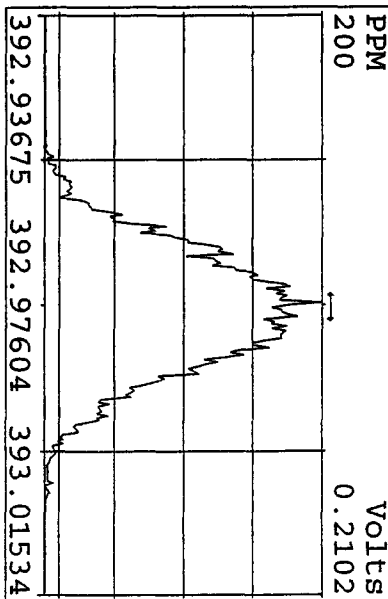
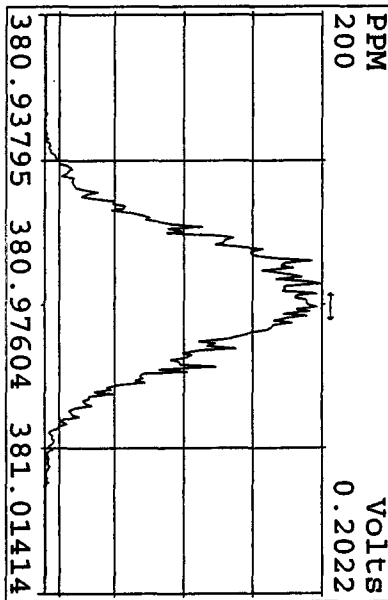
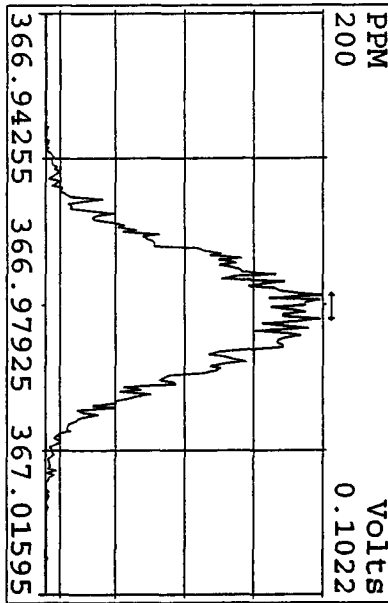
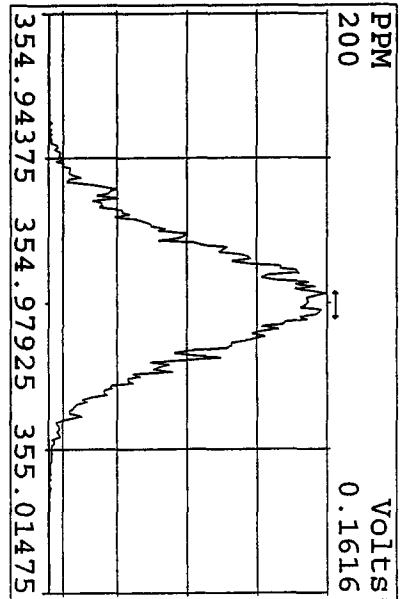
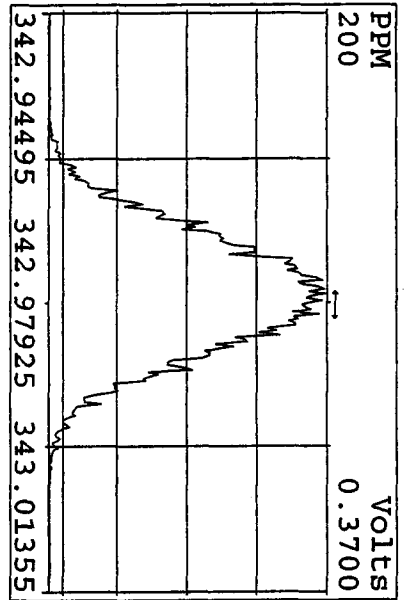
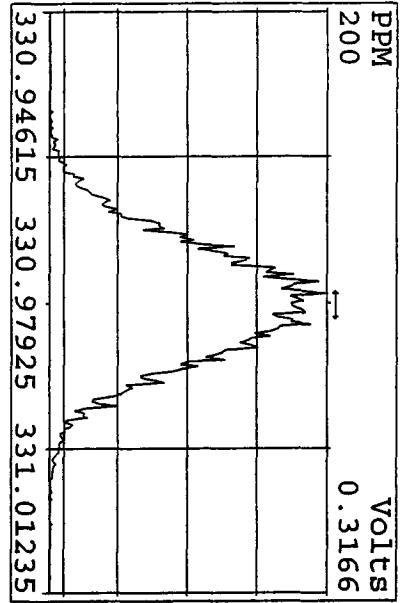
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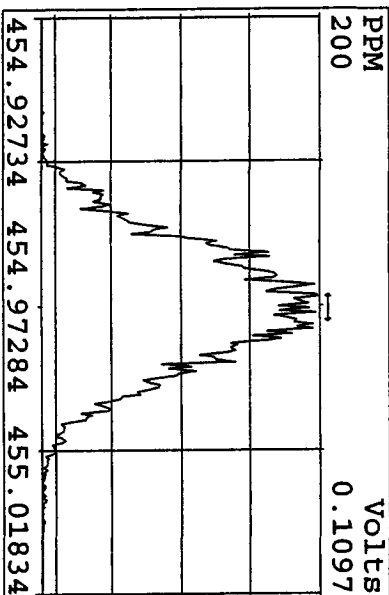
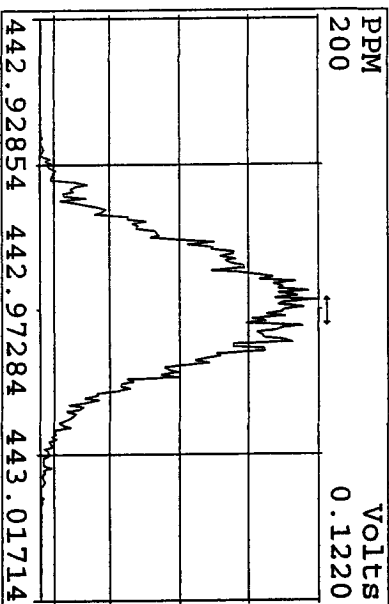
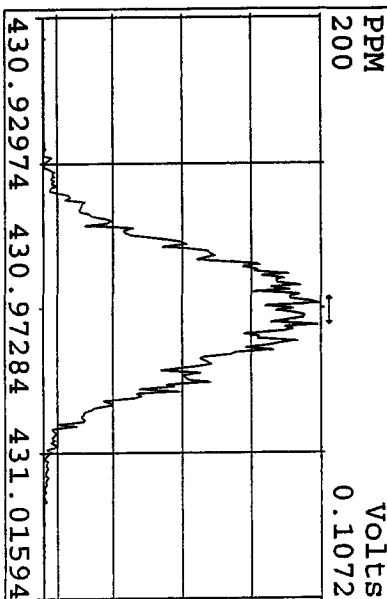
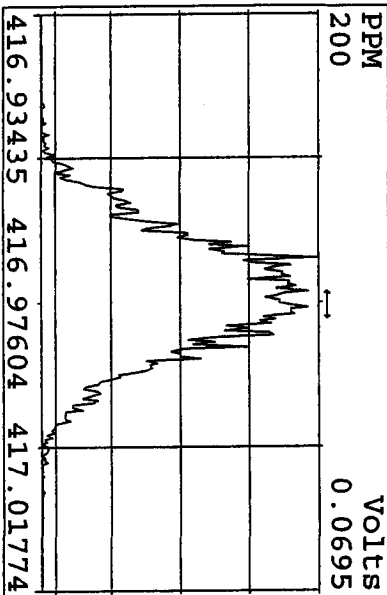
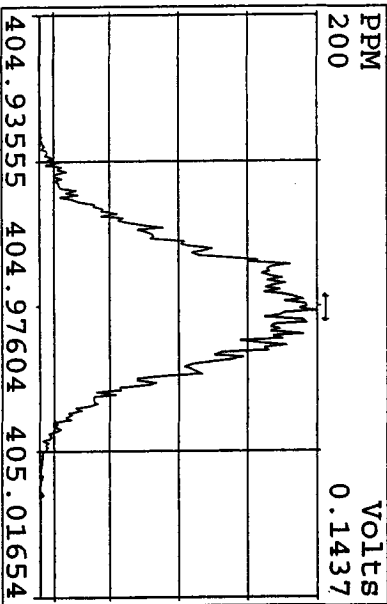
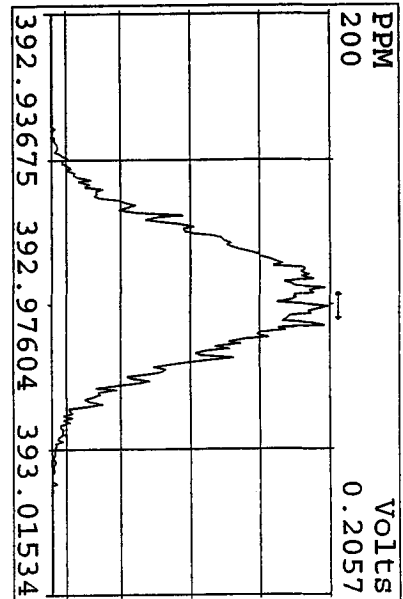
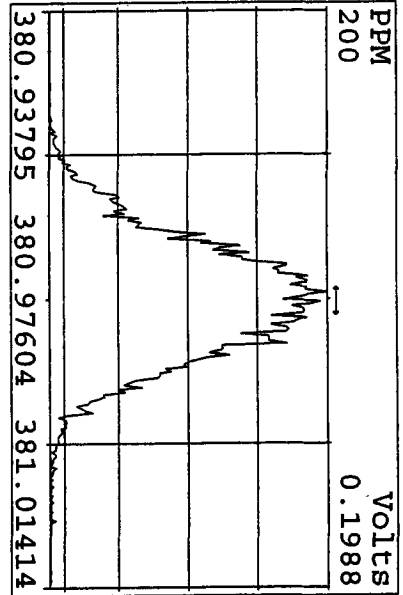
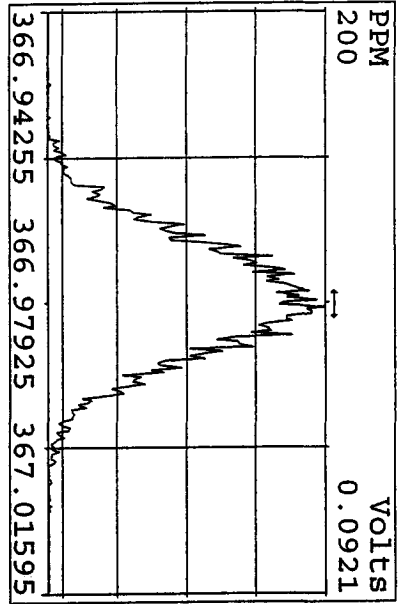
Peak Locate Examination: 21-APR-2010: 20:53 File: 21AP10B4D5  
 Experiment: DIOXINRES8290A Function: 1 Reference: PFK



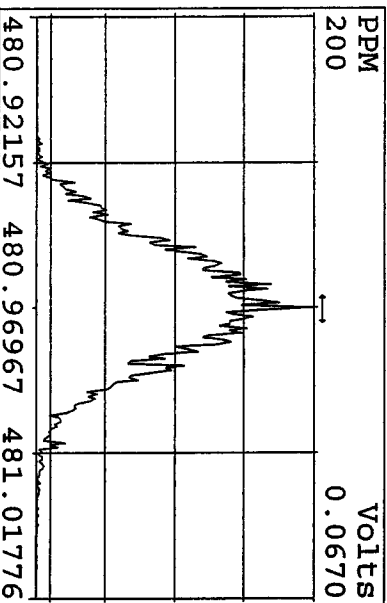
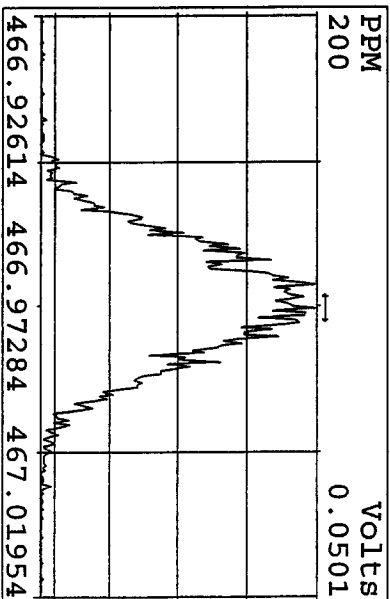
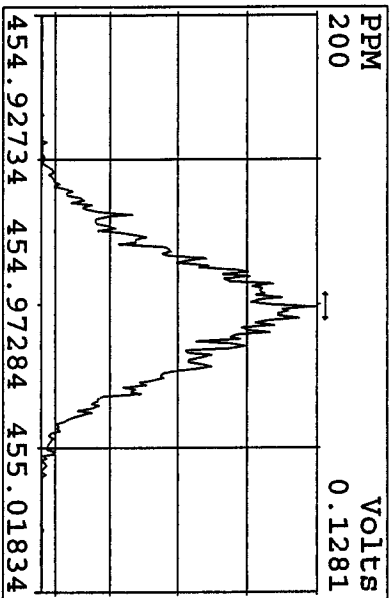
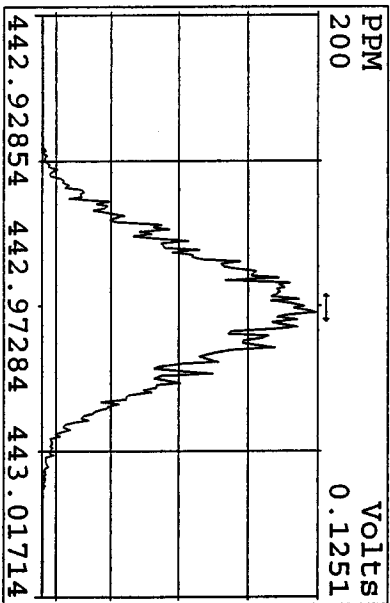
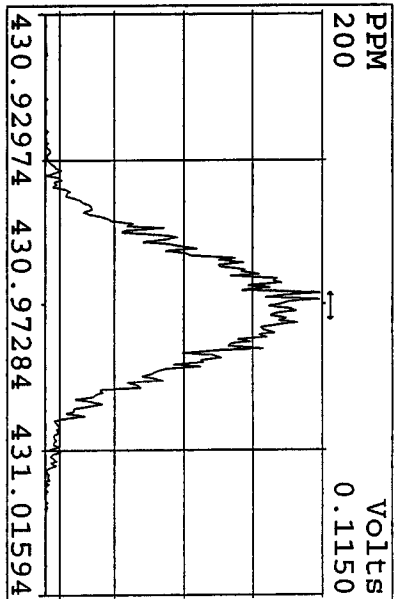
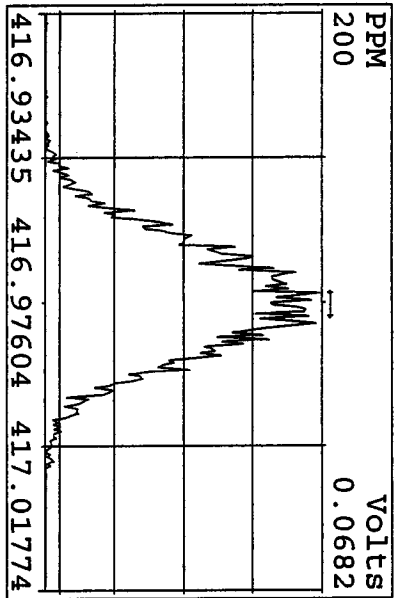
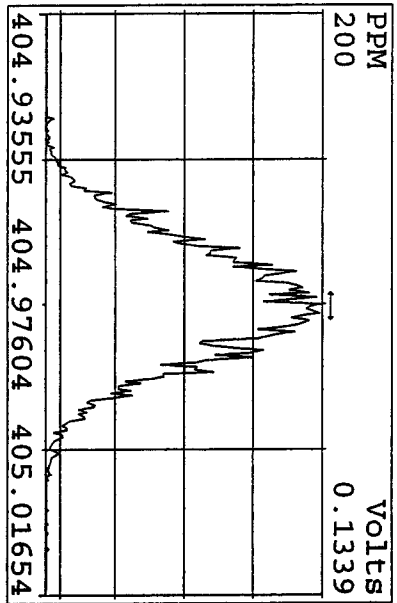
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 Experiment: DIOXINRES8290A Function: 2 Reference: PFK



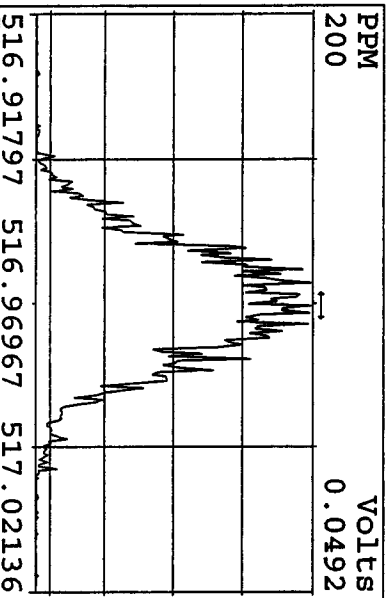
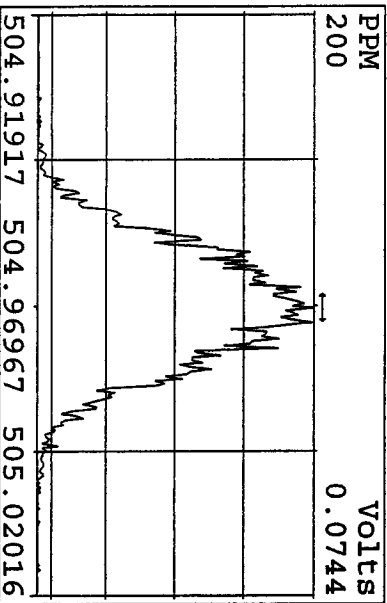
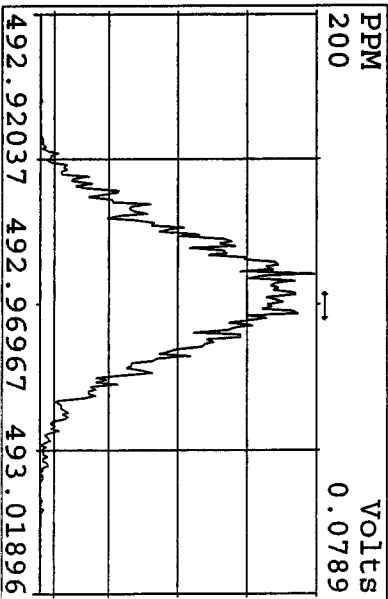
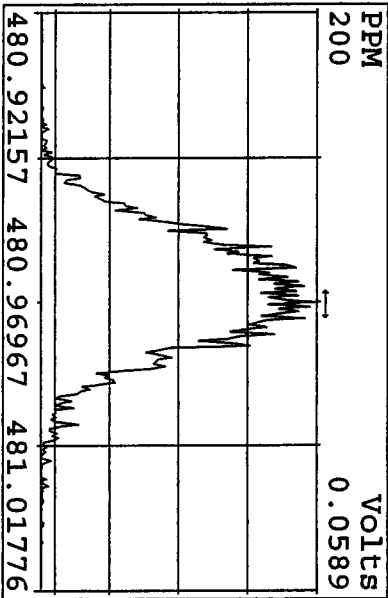
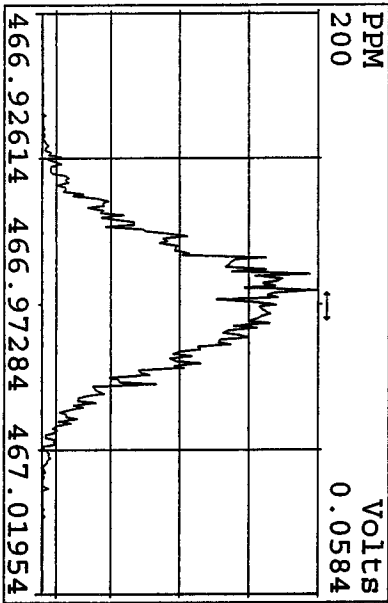
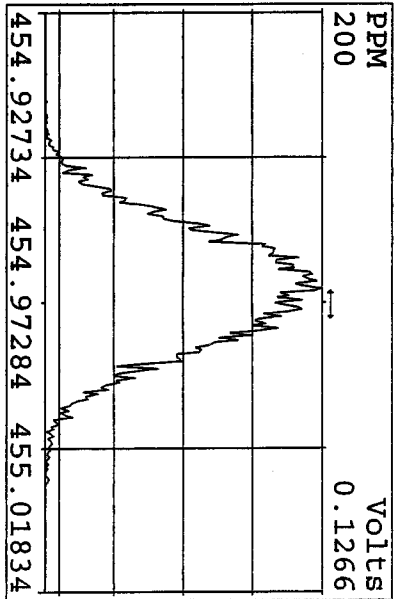
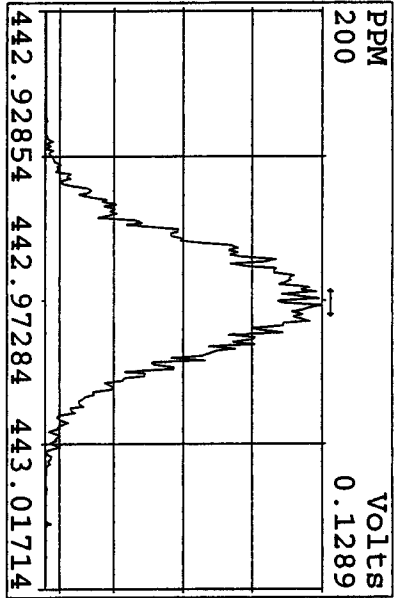
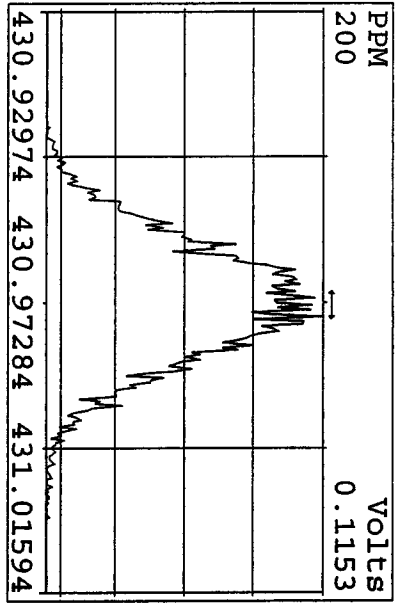
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 Experiment: DIOXINRES8290A Function: 3 Reference: PFK



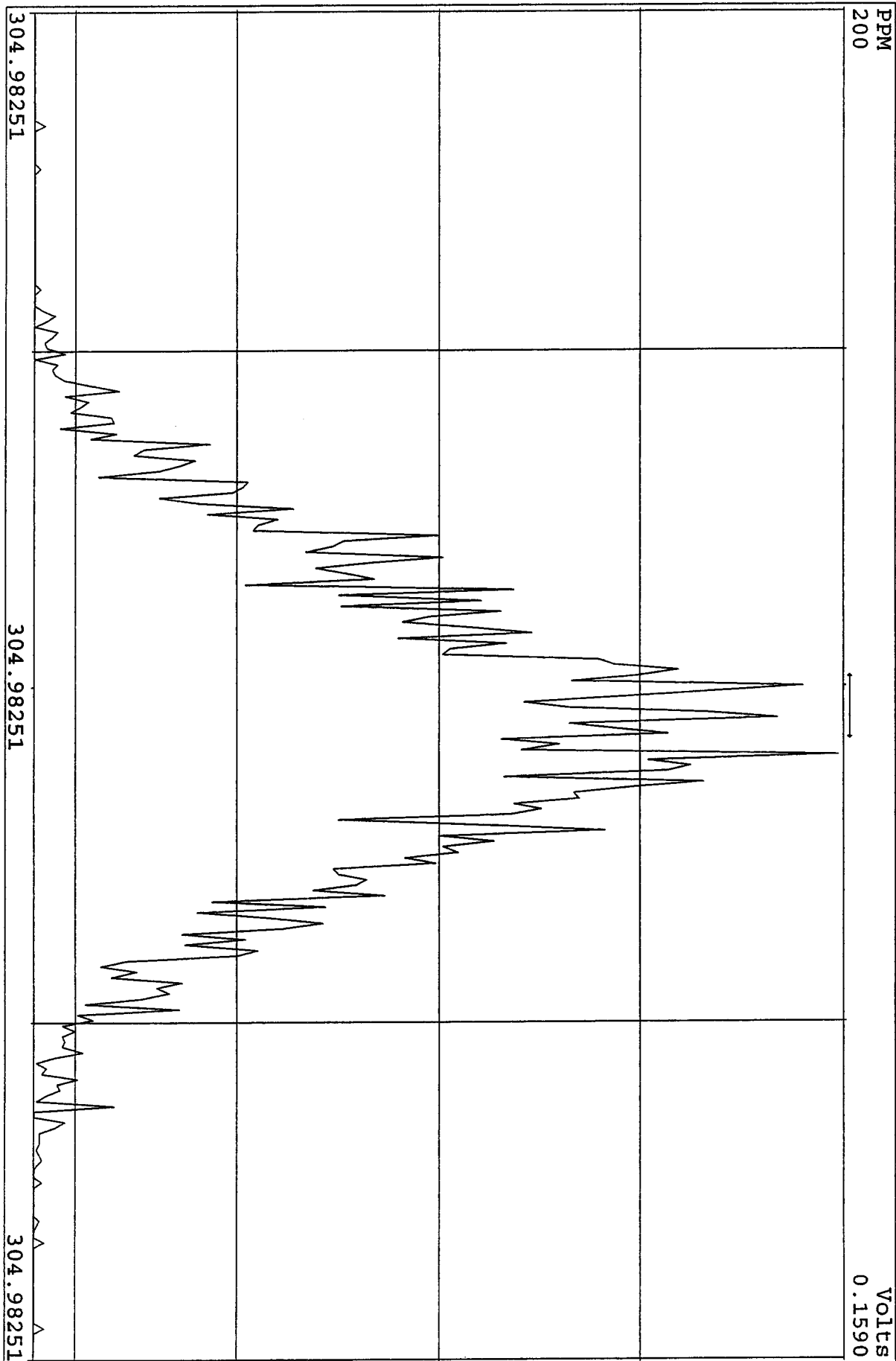
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 Experiment: DIOXINRES8290A Function: 4 Reference: PFK



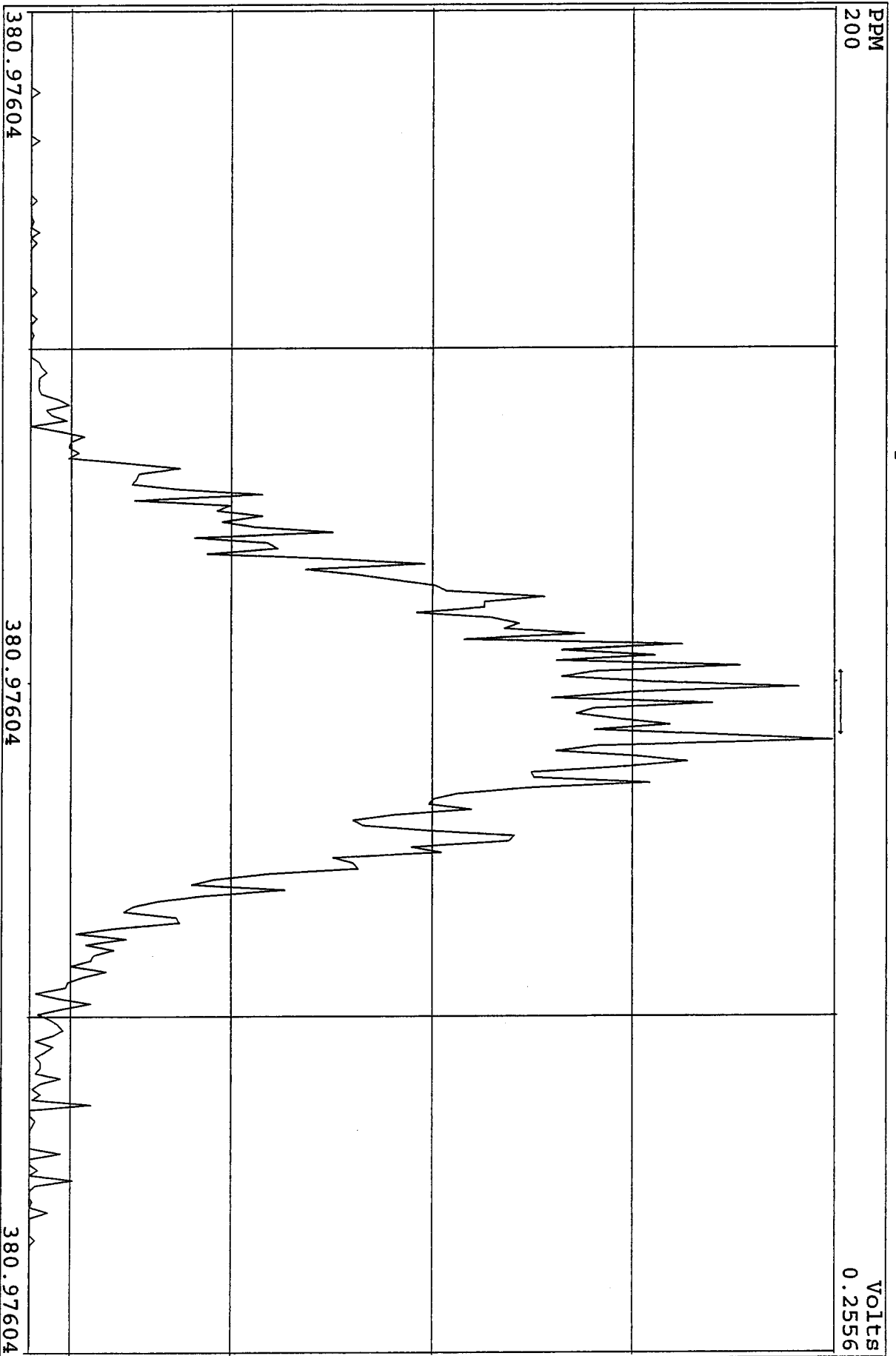
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 Experiment: DIOXINRES8290A Function: 5 Reference: PFK



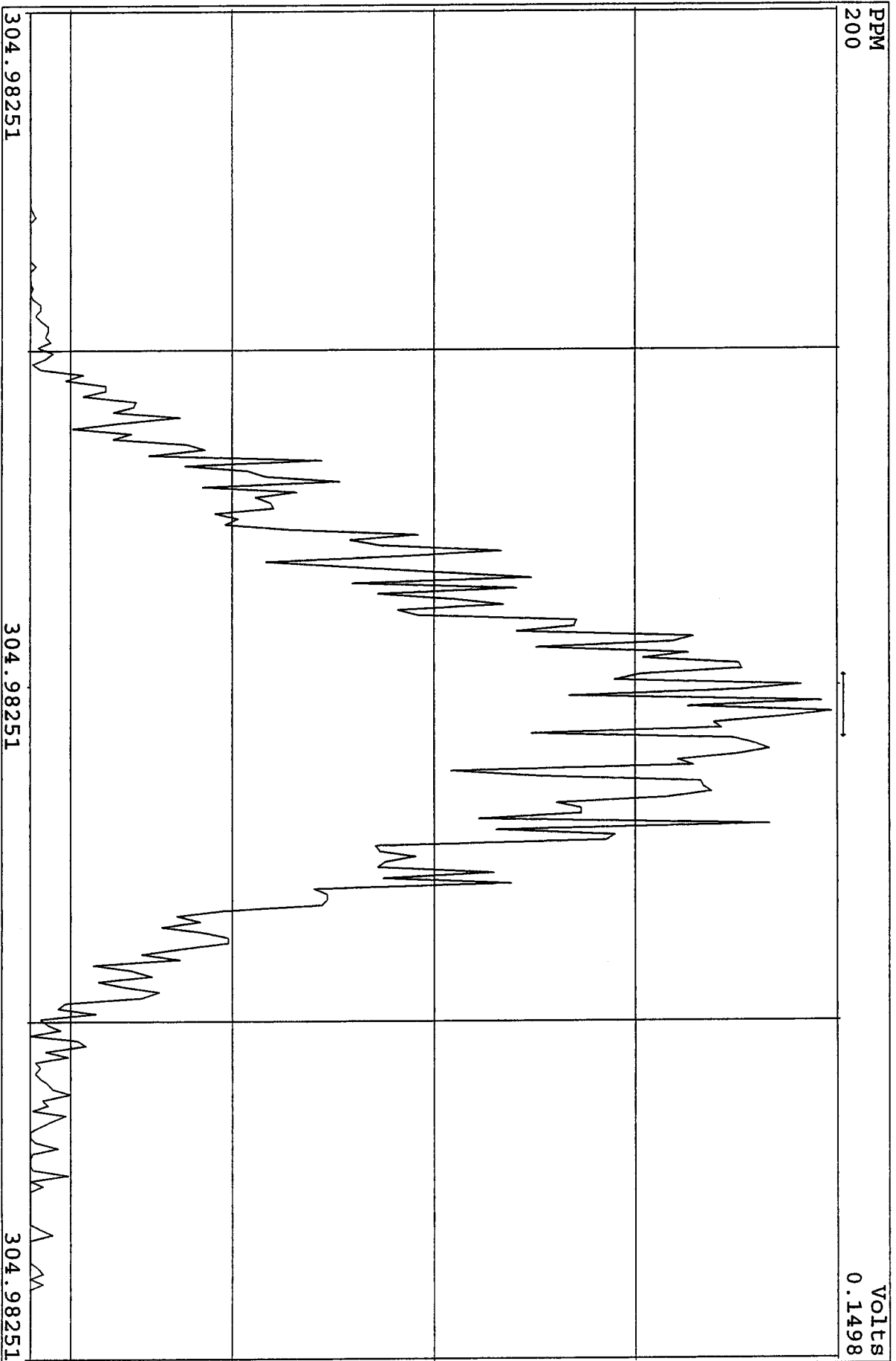
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Experiment: DIOXINRES8290A Function: 7



SIRLM Examination: 22-APR-2010: 11:00 File: 21AP10B4D5  
Experiment: DIOXINRES8290A Function: 6

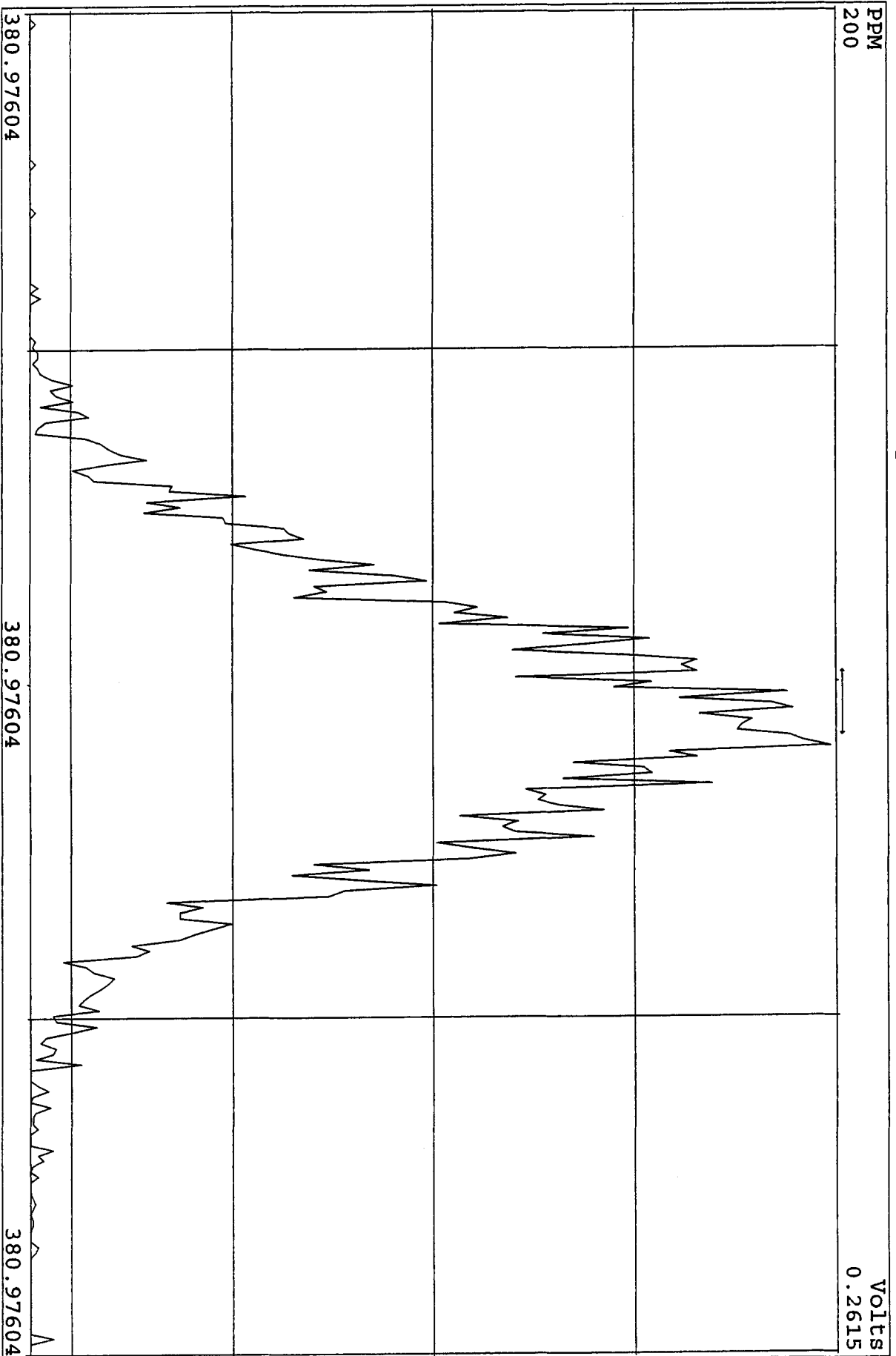


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Experiment: DIOXINRES8290A Function: 7

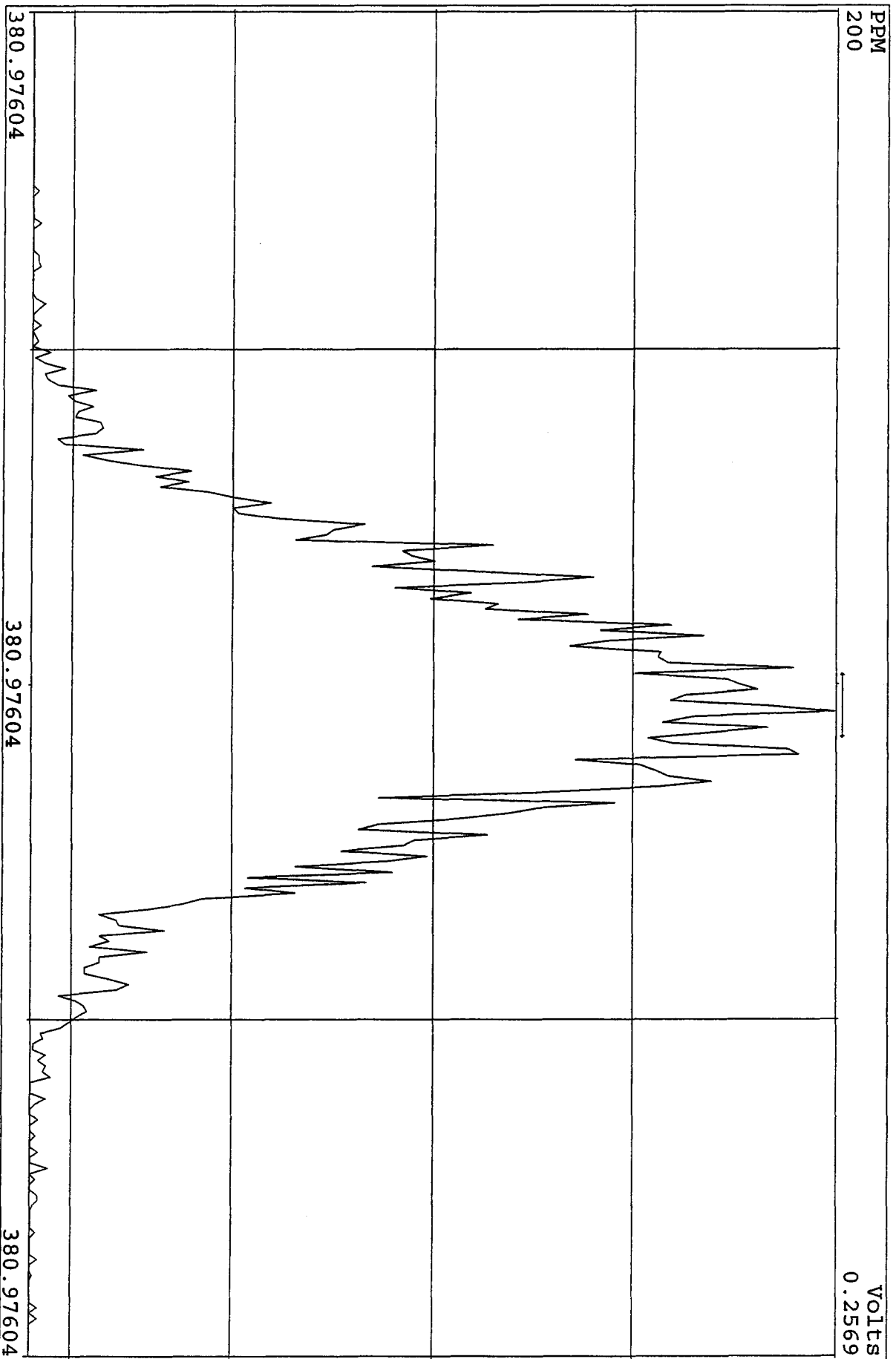




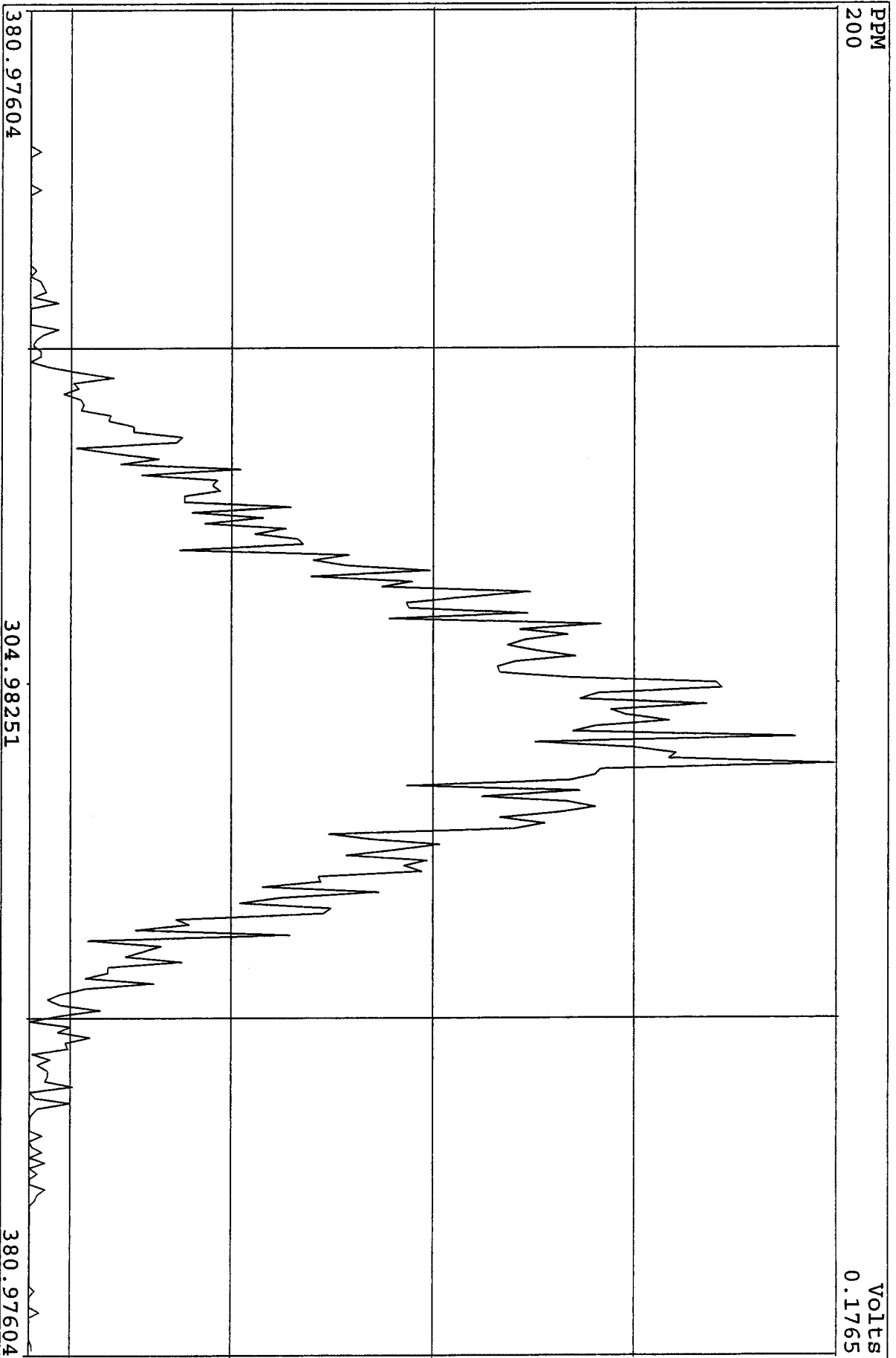
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Experiment: DIOXINRES8290A Function: 6



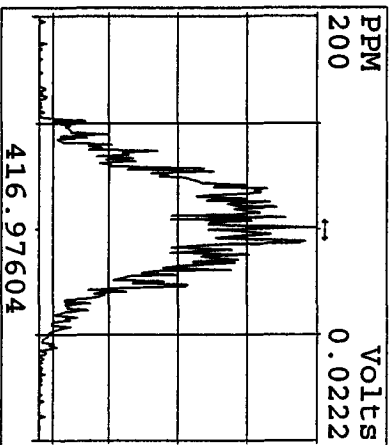
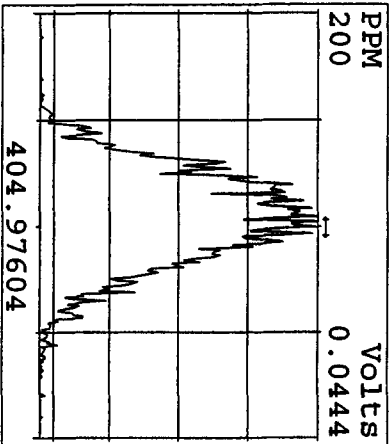
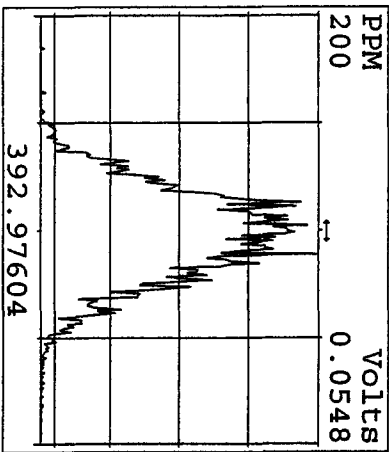
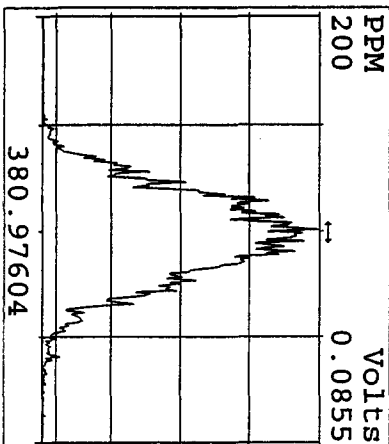
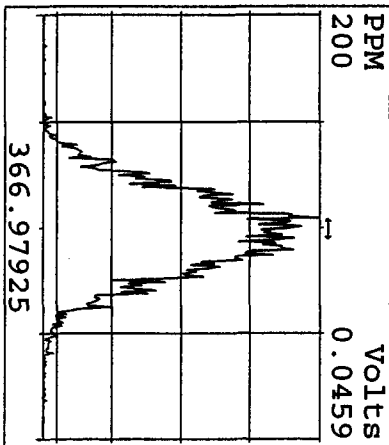
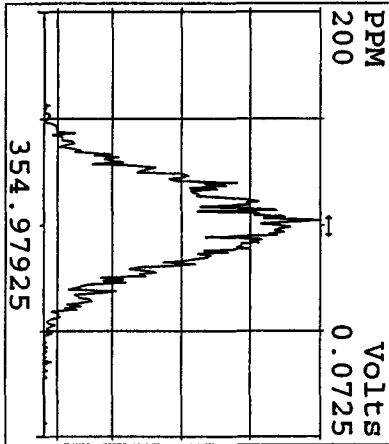
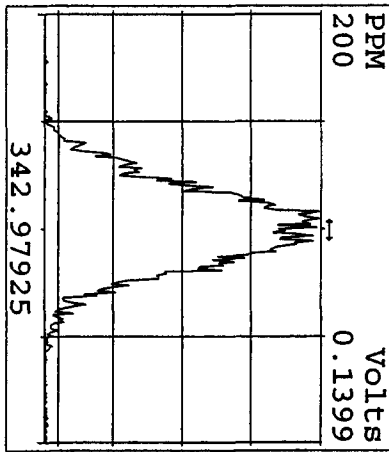
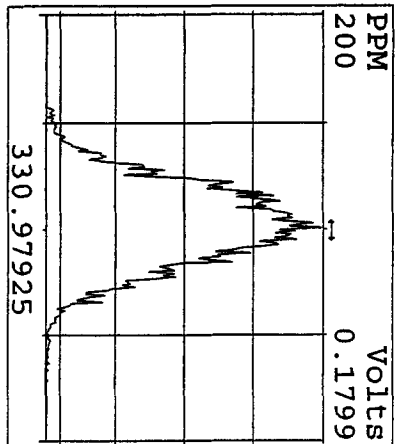
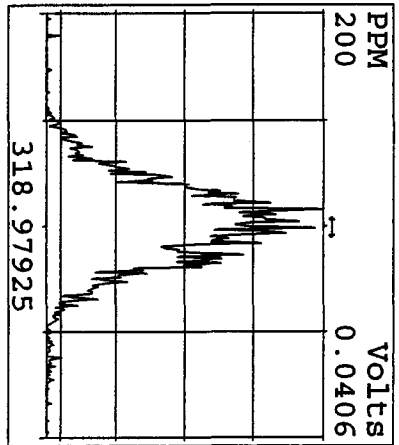
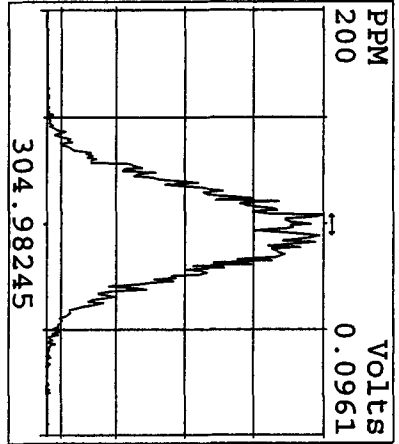
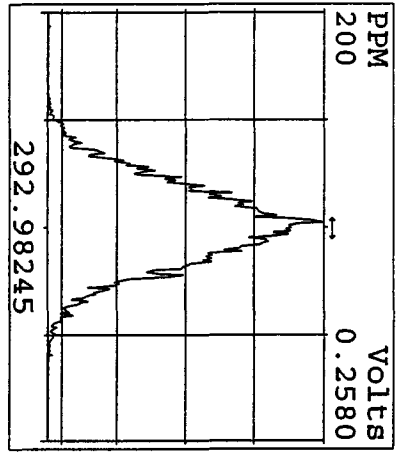
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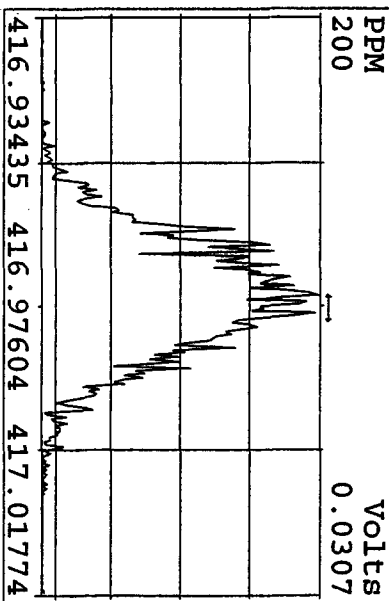
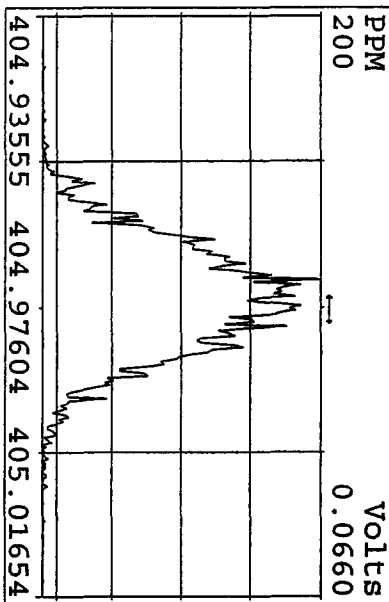
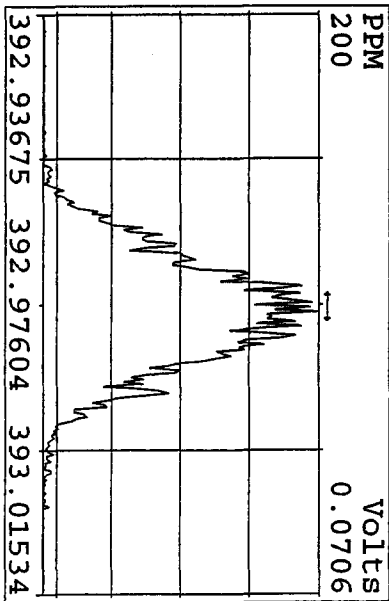
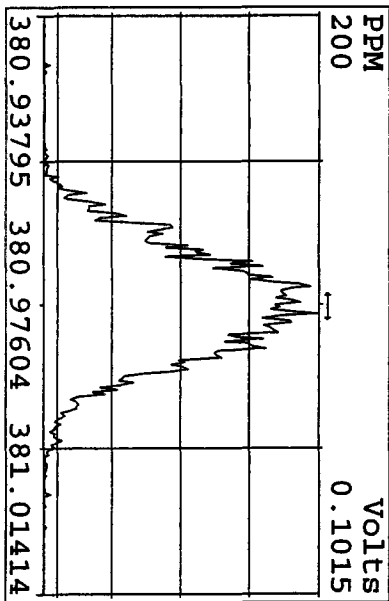
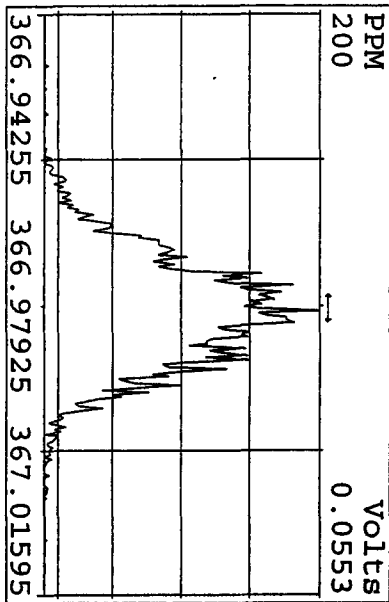
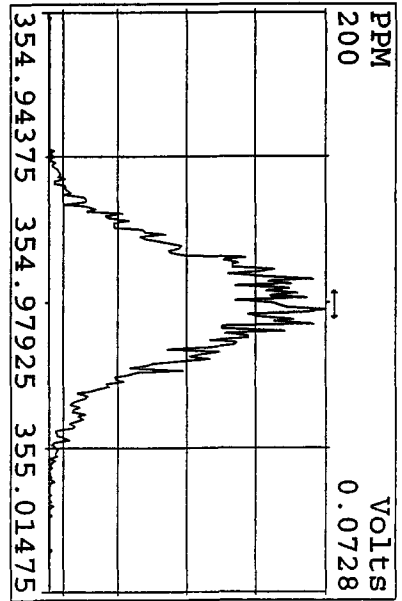
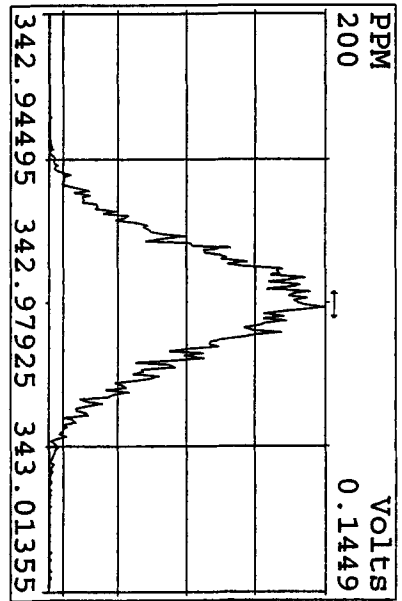
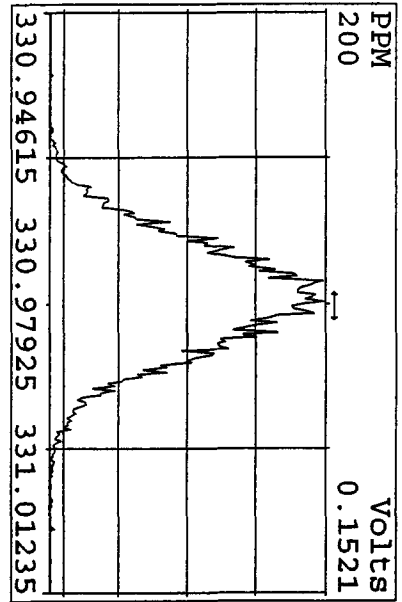
SIRIM Examination: 23-APR-2010: 00:57 File: 21AP10B4D5  
Experiment: DIOXINRES8290A Function: 7



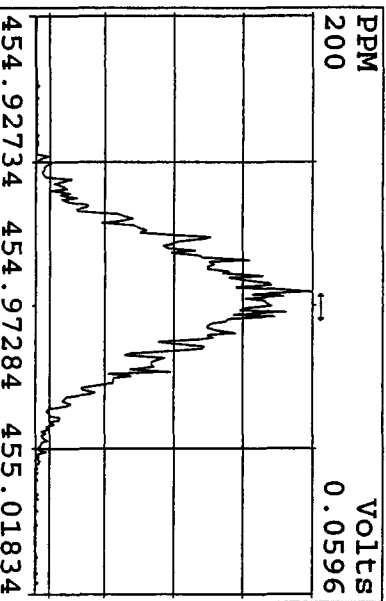
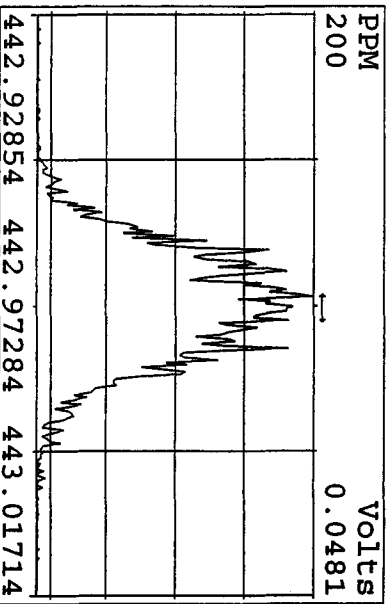
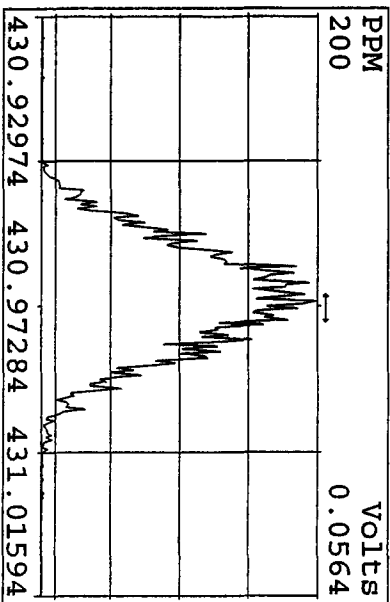
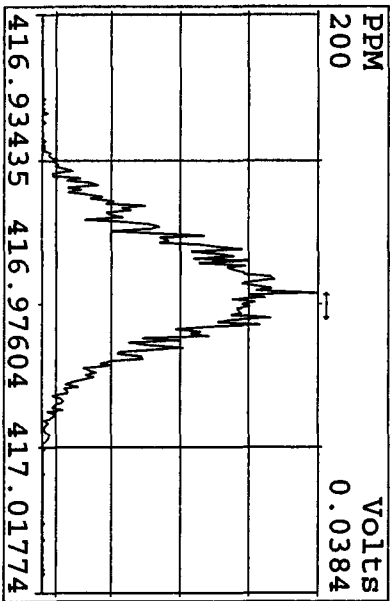
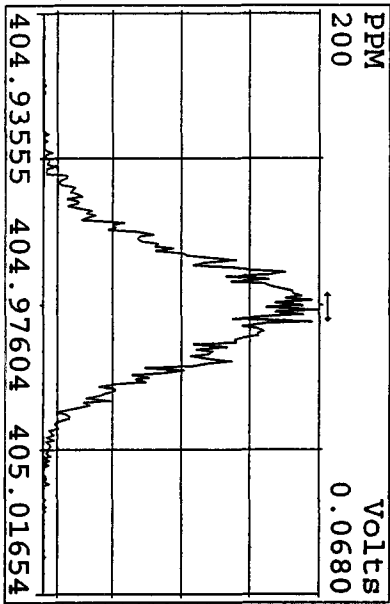
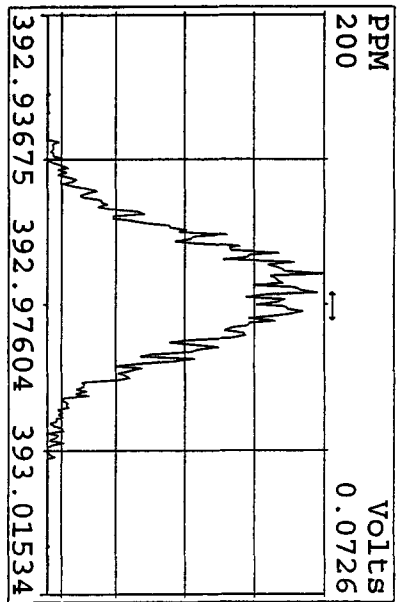
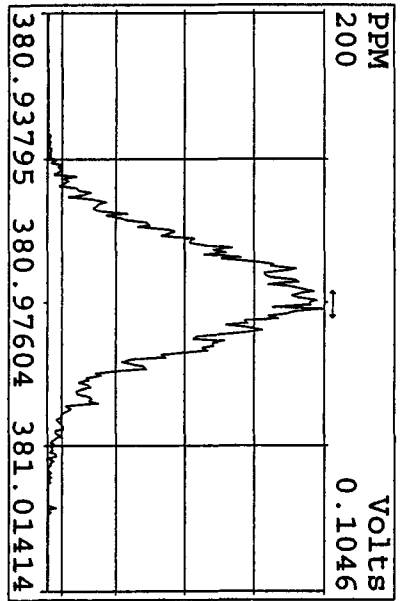
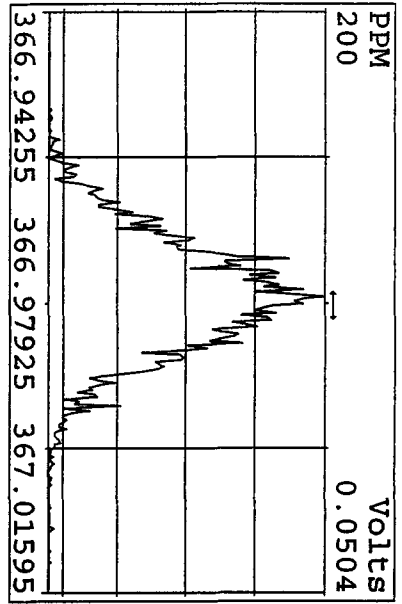
Peak Locate Examination: 23-APR-2010:11:26 File: ENDRS21AP10B4D5  
Experiment: DIOXIN Function: 1 Reference: PFK



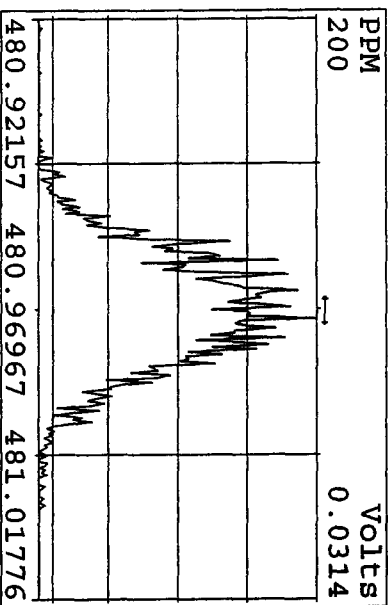
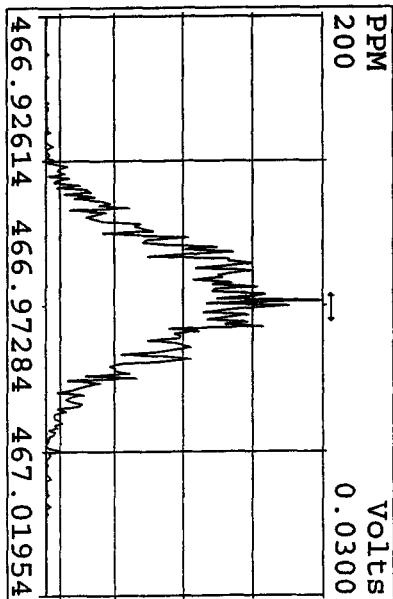
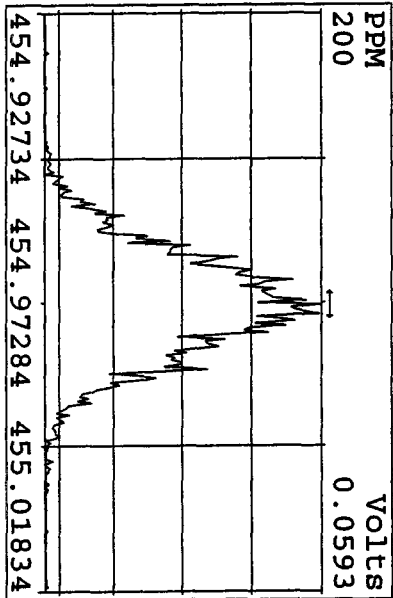
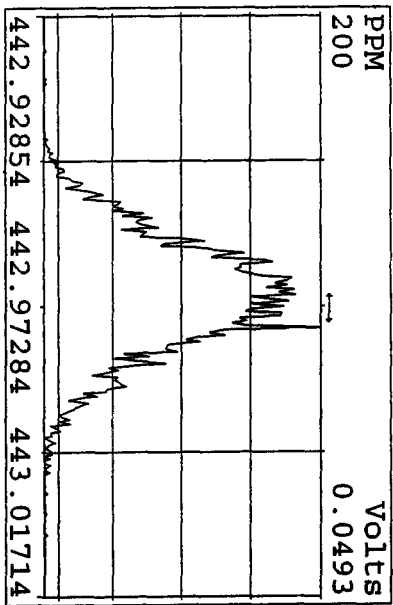
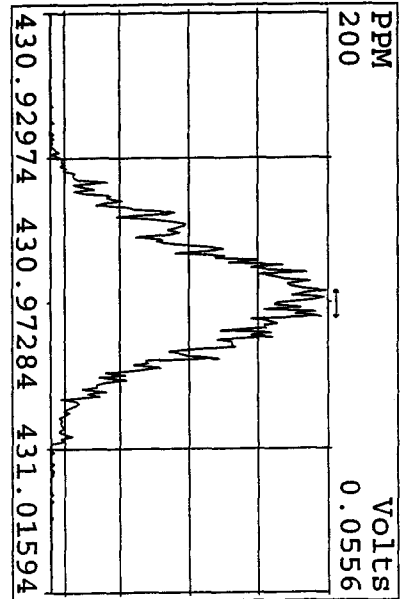
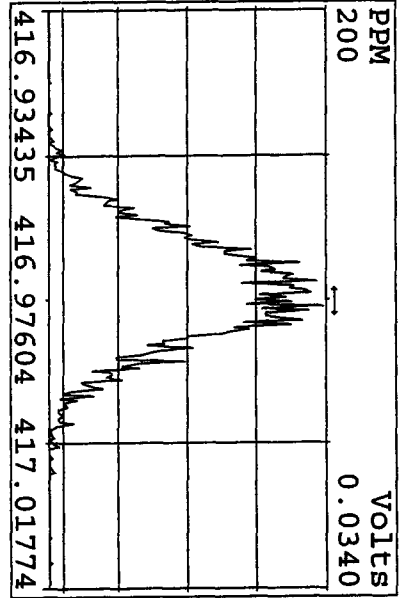
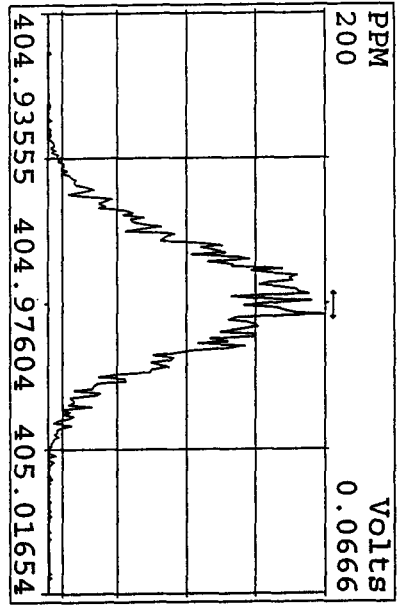
Peak Locate Examination: 23-APR-2010:11:26 File: ENDRES21AP10B4D5  
 Experiment: DIOXIN Function: 2 Reference: PFK



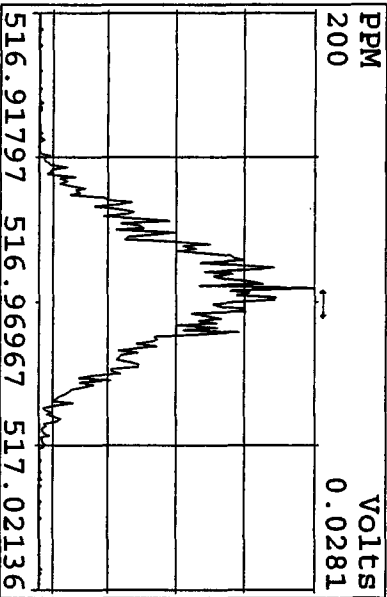
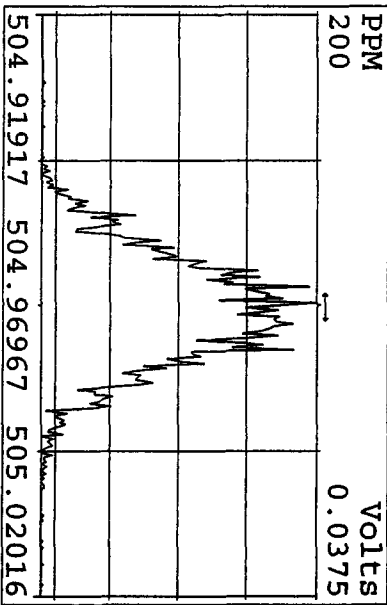
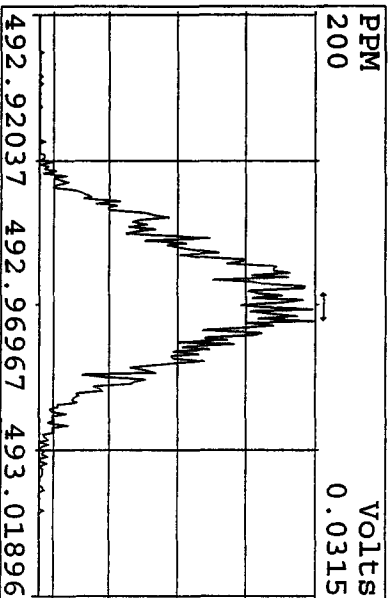
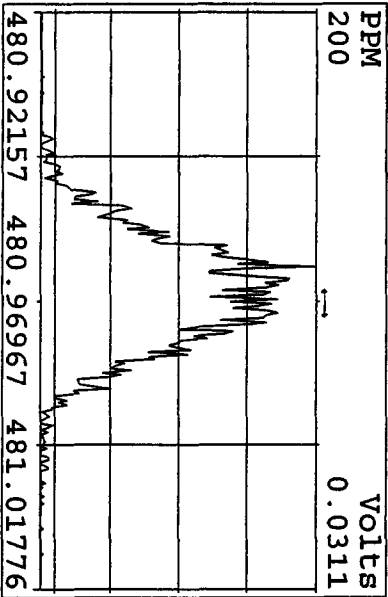
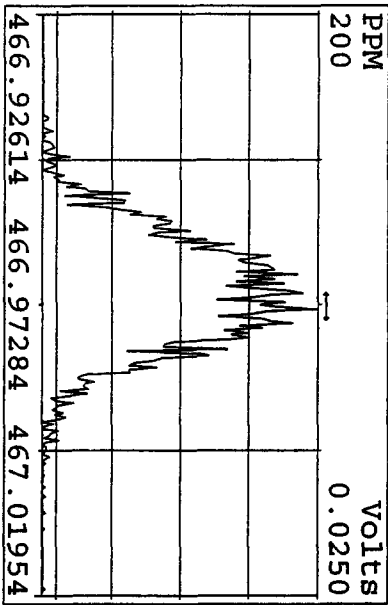
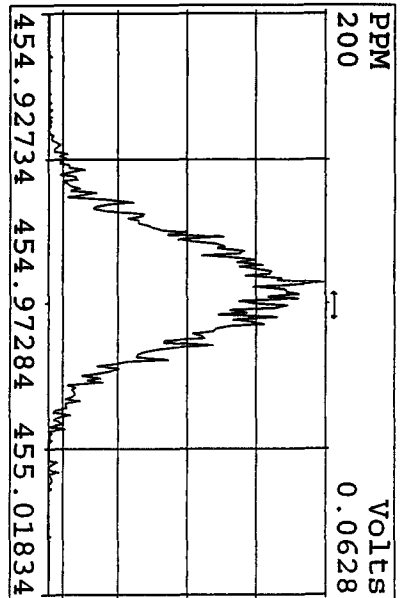
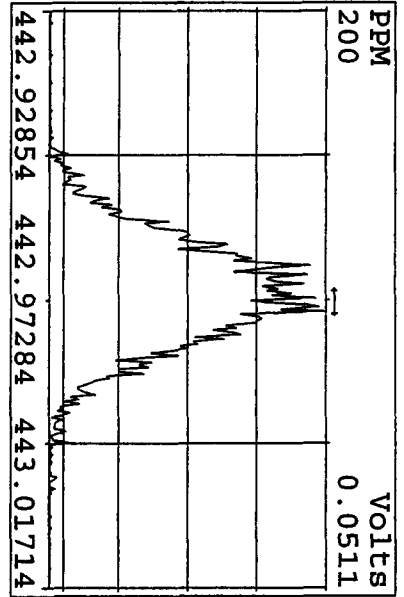
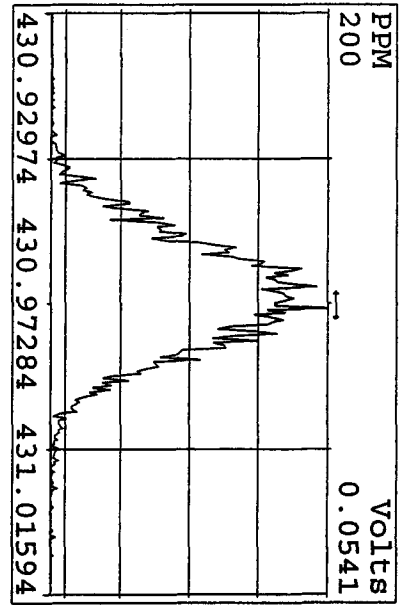
Peak Locate Examination: 23-APR-2010:11:27 File: ENDRS21AP10B4DS  
 Experiment: DIOXIN Function: 3 Reference: PFK



Peak Locate Examination: 23-APR-2010: 11:27 File: ENDRS21AP10B4D5  
 Experiment: DIOXIN Function: 4 Reference: PFK

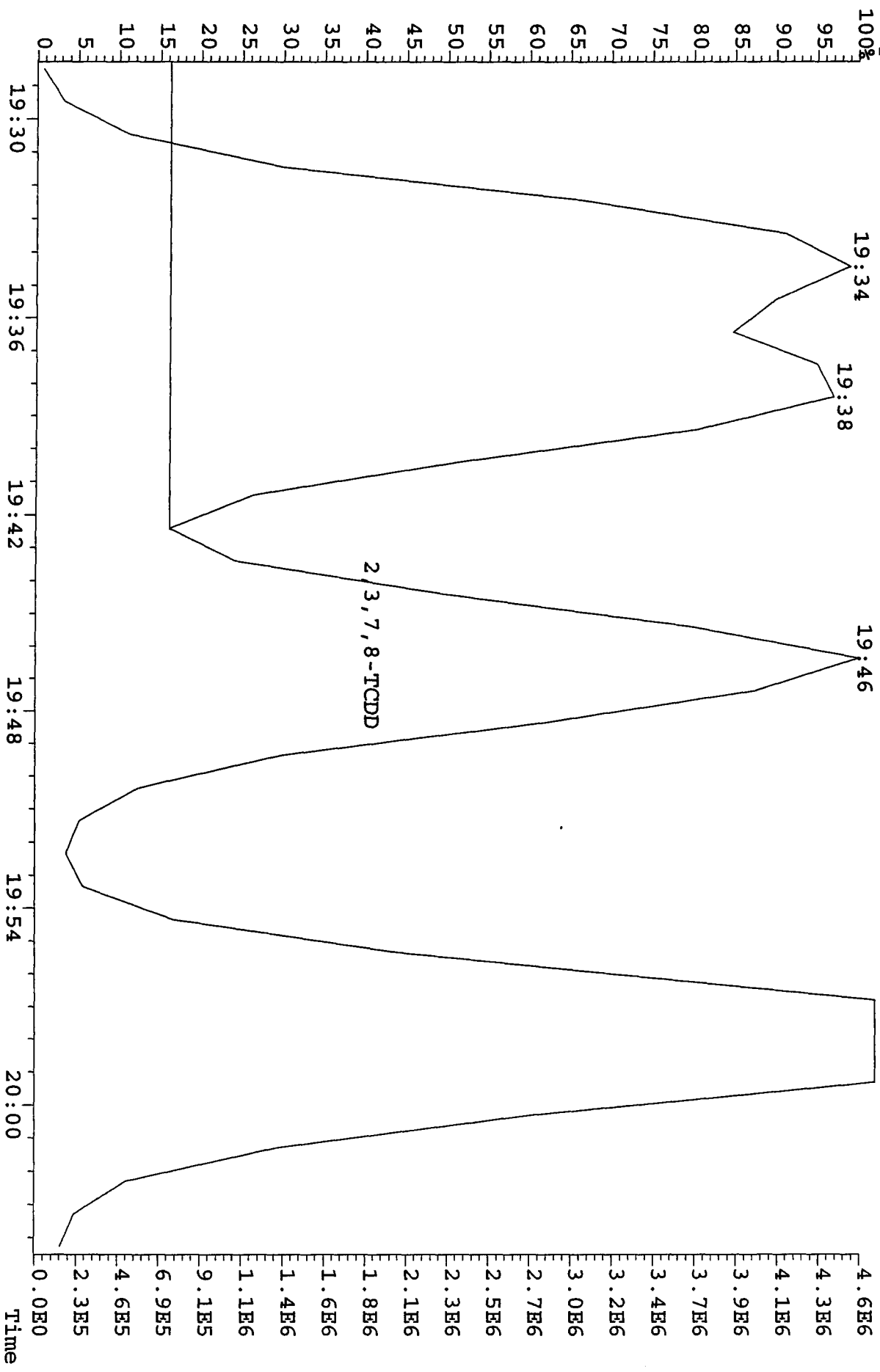


Peak Locate Examination: 23-APR-2010:11:28 File: ENDRSS21AP10B4D5  
 Experiment: DIOXIN Function: 5 Reference: PFK





File: 21API0B4D5 #1-434 Acq: 22-APR-2010 11:02:50 GC EI+ Voltage SIR Autospec-UltimaE  
321.8936 S: 20 Exp: DIOXINRES8290A  
Sample Text: CP0421B : DB-5 CPSM 3732-05



Run: 21API0B4D5 Analyte: 8290A Cal: 8290A0412104D5

ST0412B : CS-1 09DXN422 ST0412A : CS-2 09DXN423 ST0412 : CS-3 10DXN111  
 ST0412D : CS-4 09DXN426 ST0412C : CS-5 09DXN456

12API04D5 12API04D5 12API04D5 12API04D5 12API04D5

Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	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
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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

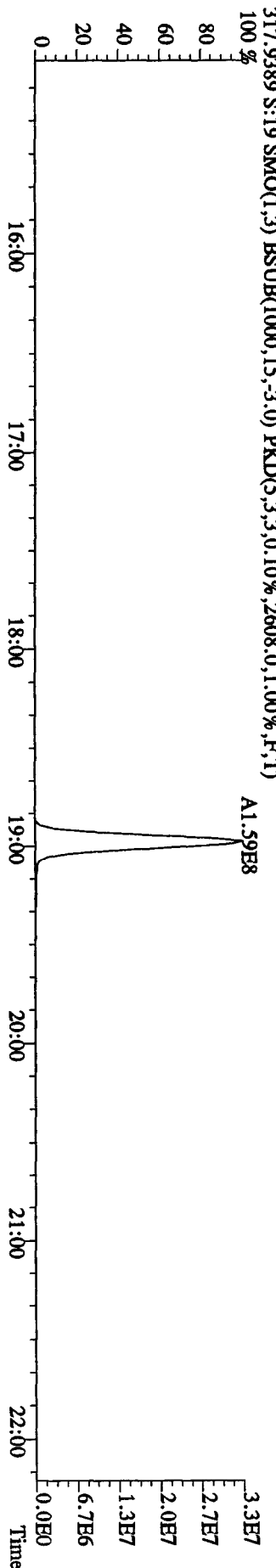
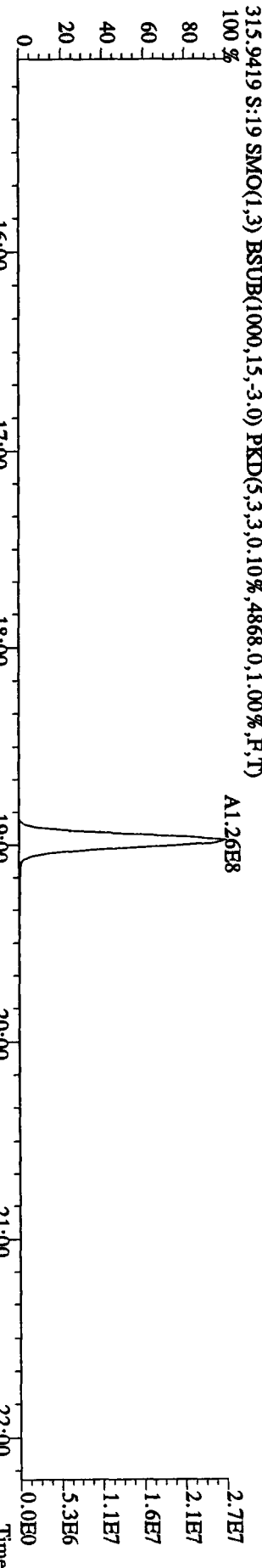
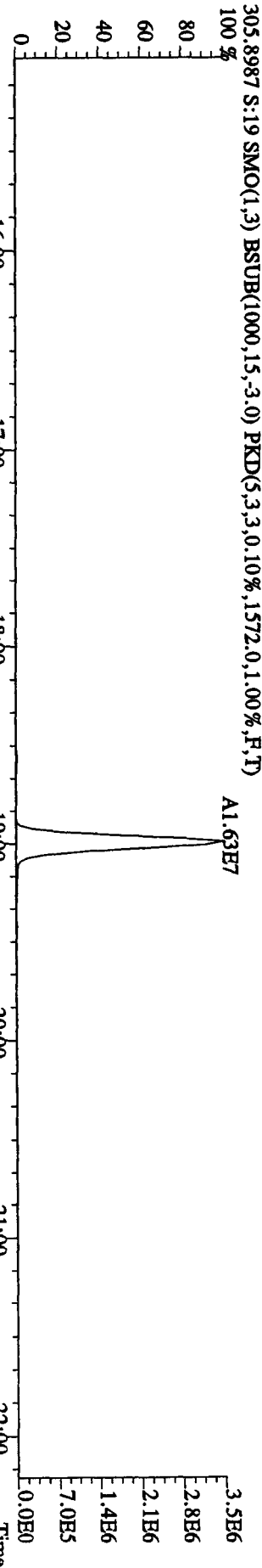
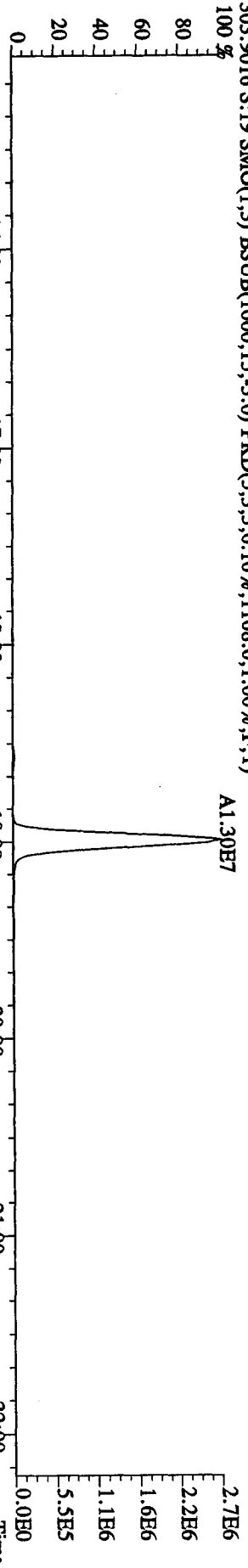
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-
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13C-1,2,3,4,7,8-HxCDF	1.025	0.075	7.29 %	1.08	0.98	1.08	0.92	1.06
1,2,3,4,7,8-HxCDF	1.213	0.061	5.00 %	1.12	1.18	1.25	1.28	1.23
1,2,3,6,7,8-HxCDF	1.343	0.096	7.13 %	1.20	1.34	1.46	1.38	1.33
2,3,4,6,7,8-HxCDF	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

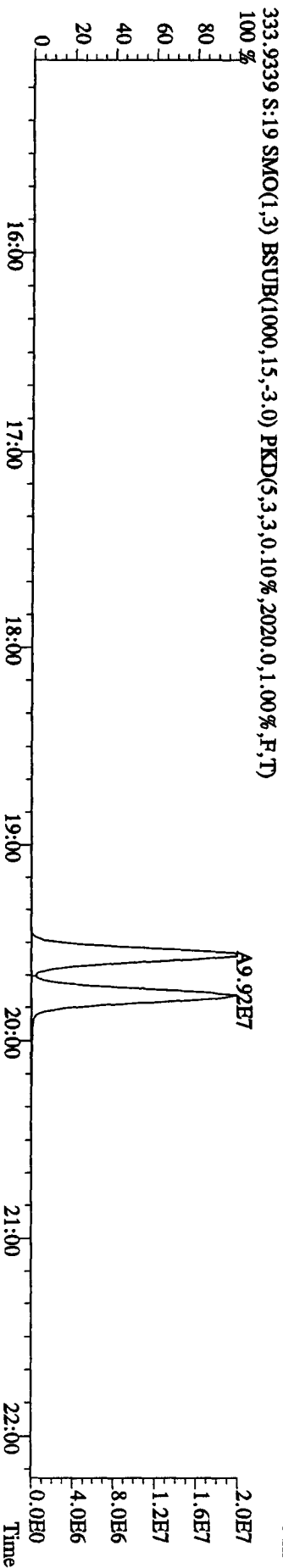
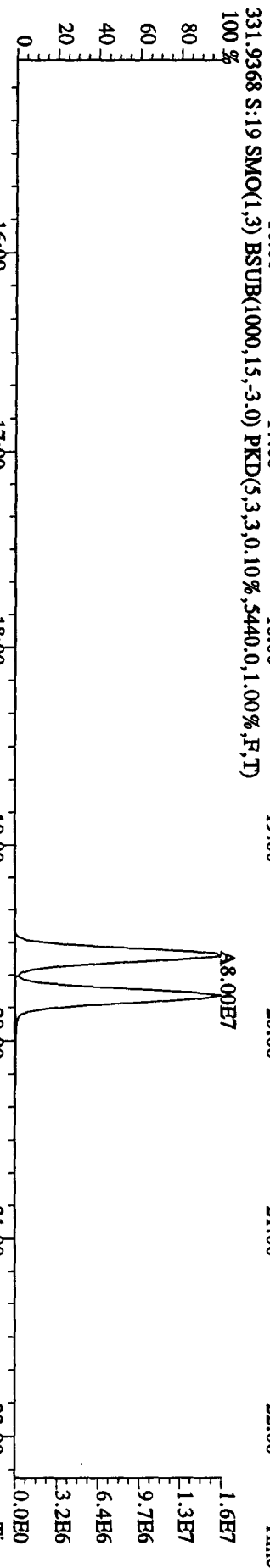
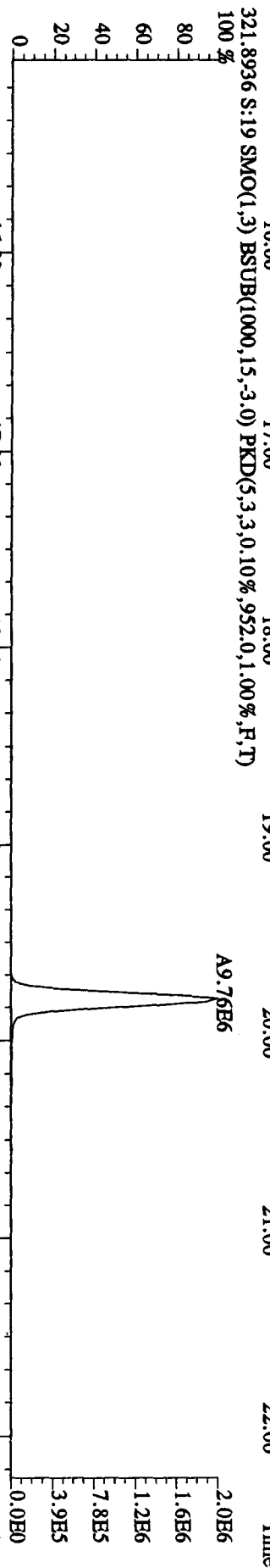
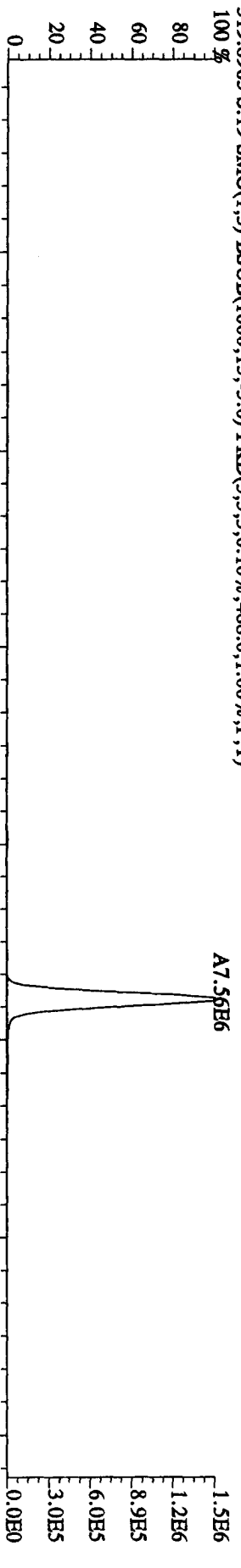
13C-1,2,3,6,7,8-HxCDD	0.807	0.060	7.46 %	0.81	0.77	0.86	0.72	0.87
1,2,3,4,7,8-HxCDD	1.007	0.056	5.54 %	0.93	1.02	1.04	1.07	0.98

1,2,3,6,7,8-HxCDD	1.114	0.059	5.33 %	1.06	1.06	1.19	1.16	1.11
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
3C-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
3C-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

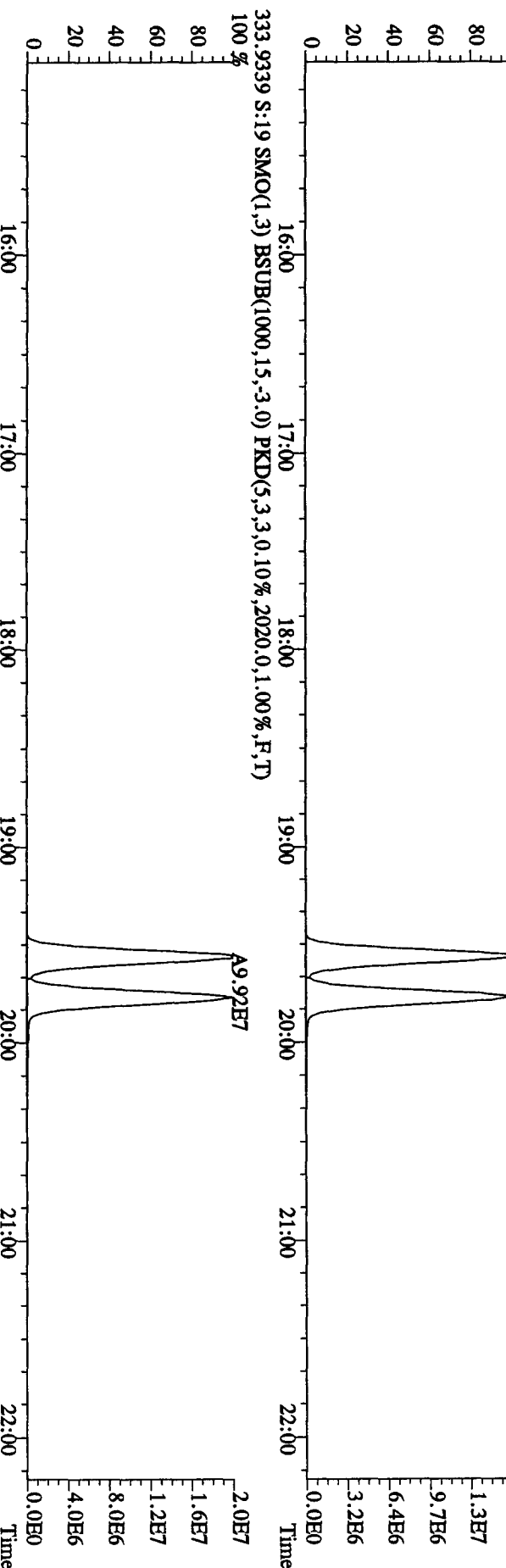
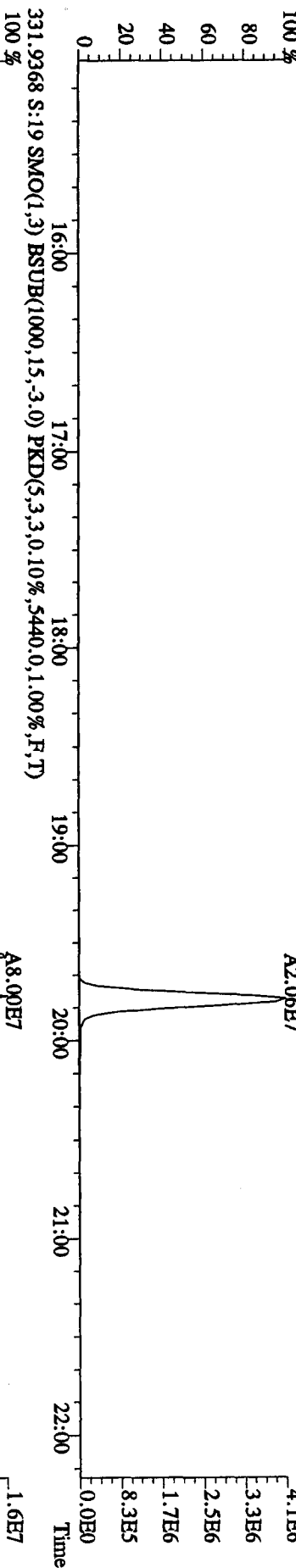
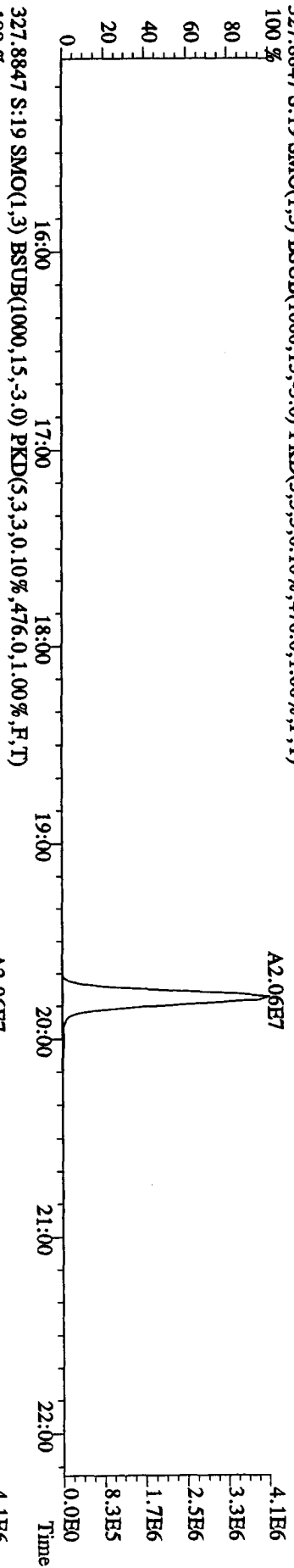
File: 21AP10B4D5 #1-434 Acq: 22-APR-2010 10:18:47 GC EI+ Voltage: SIR Autospec-UltimaE  
 Sample#19 Text: ST0421C :CS3 10DXN111 Exp: DIOXINRES8290A  
 303.9016 S:19 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1108,0,1,00%,F,T) 100%



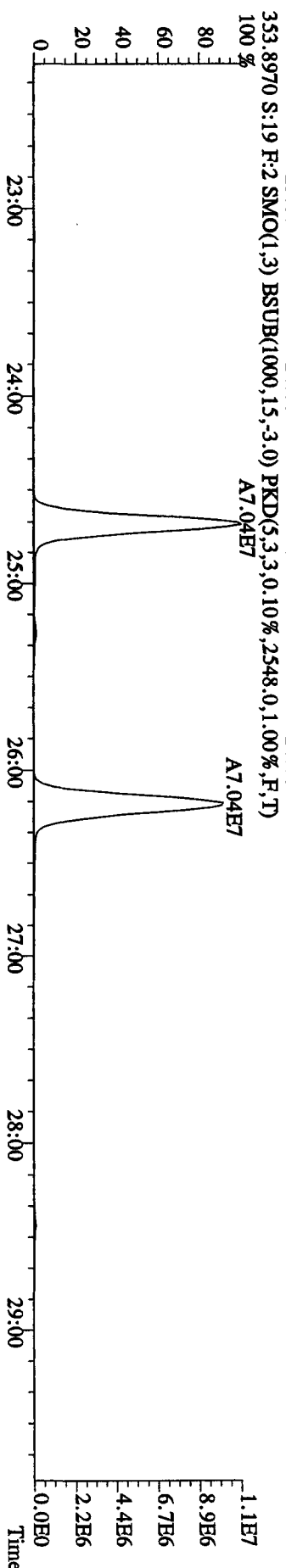
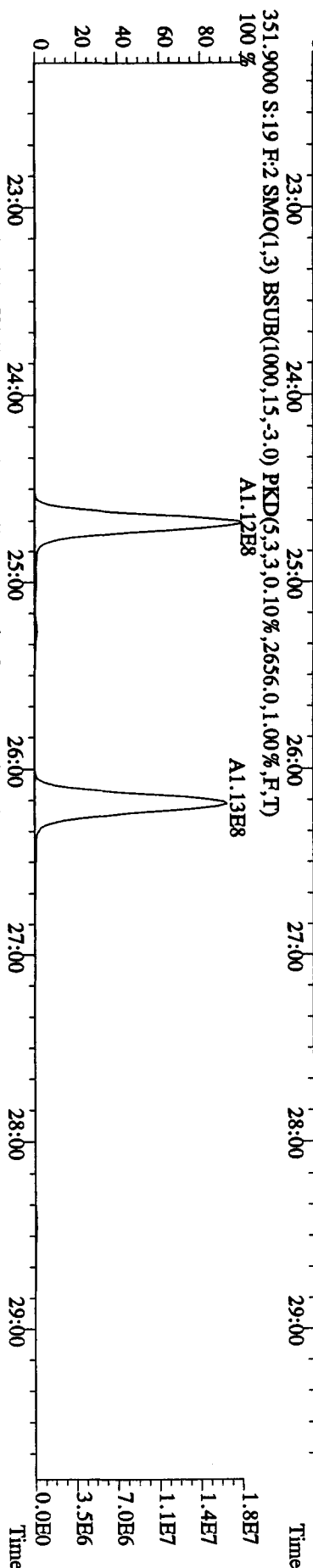
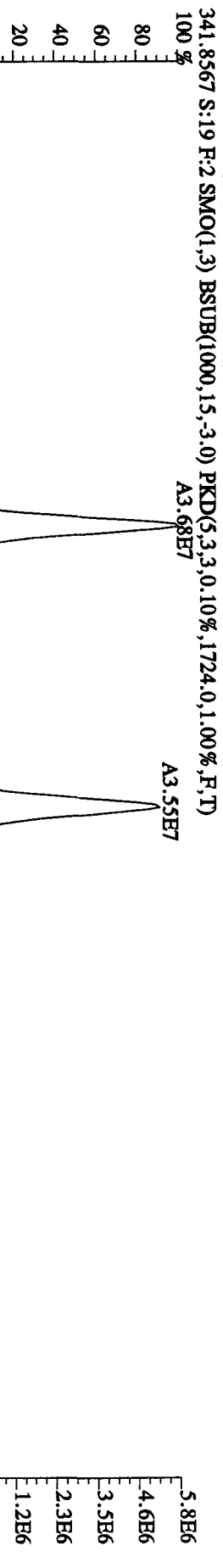
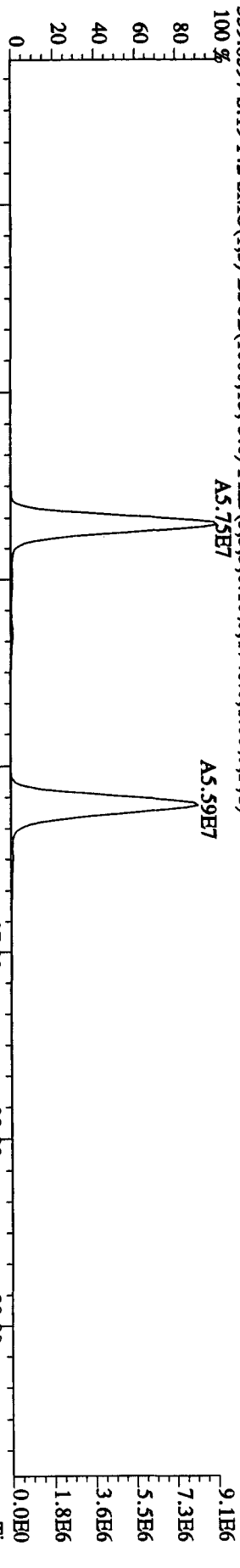
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 319.8965 S:19 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,488.0,1.00%,F,T)



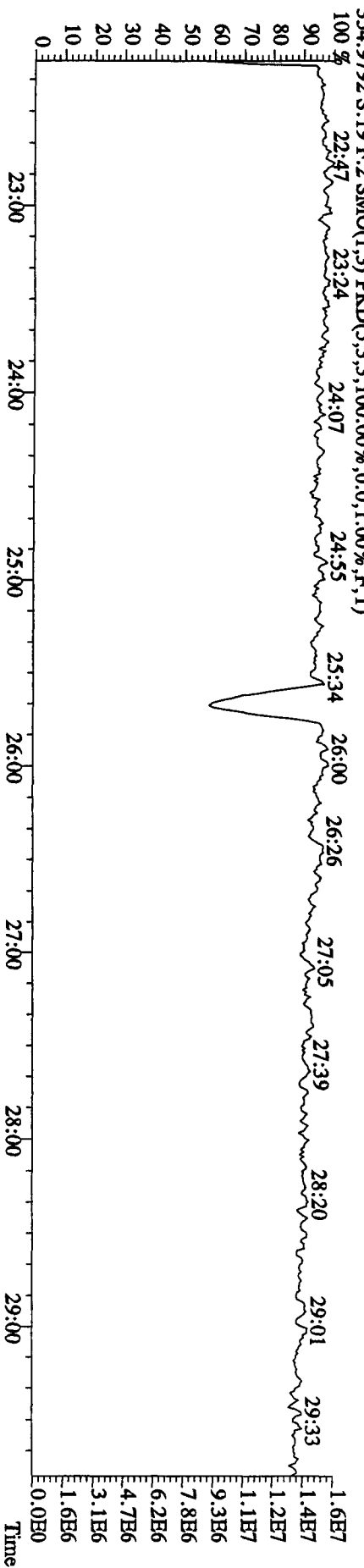
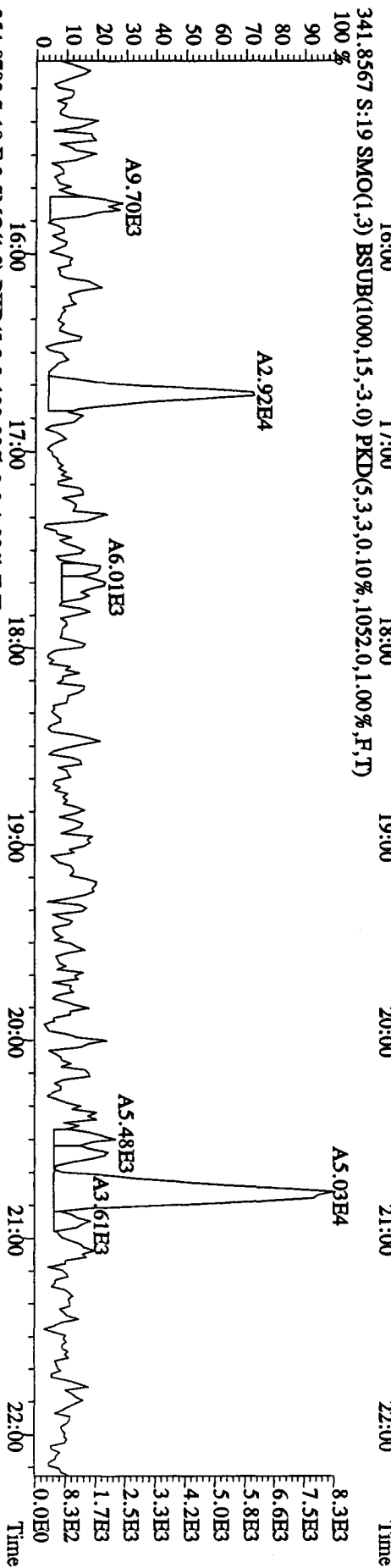
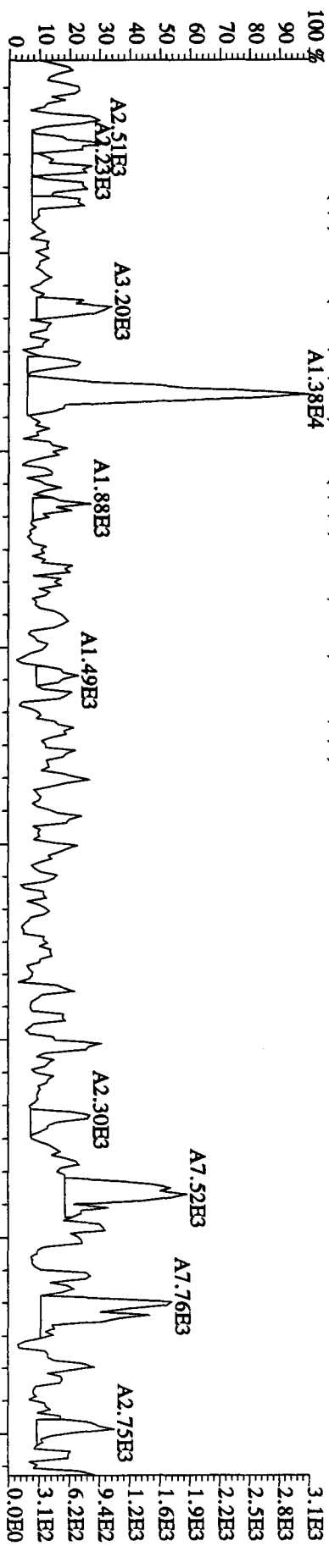
File:21API0BAD5 #1-434 Acq:22-APR-2010 10:18:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#19 Text:ST0421C :CS3 10DXN111 Exp:DIOXINRES8290A  
327.8847 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,476.0,1.00%,F,T)  
100 %



File:21AP10B4D5 #1-604 Acq:22-APR-2010 10:18:47 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#19 Text:ST0421C :CSS 10DXN111 Exp:DIOXINRES8290A  
 339.8597 S:19 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1748.0,1.00%,F,T)  
 100 % A5.75E7

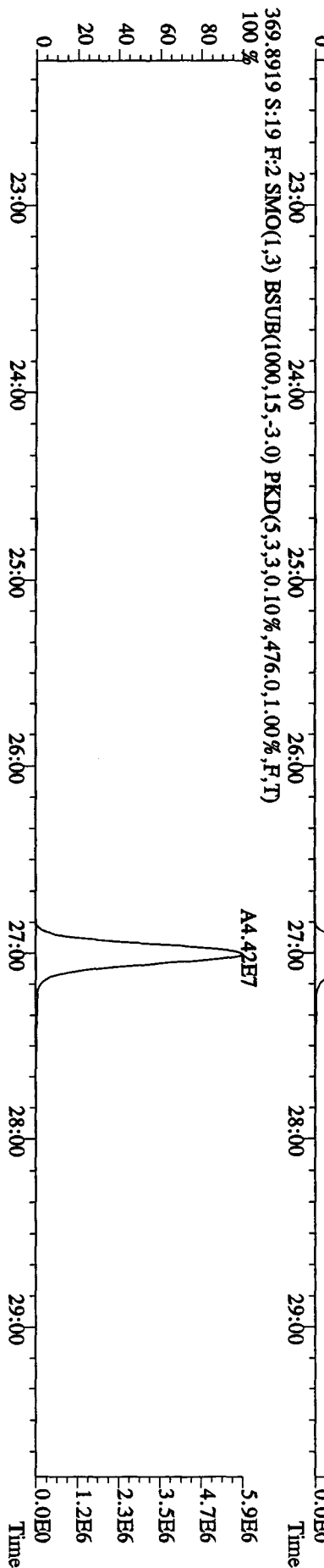
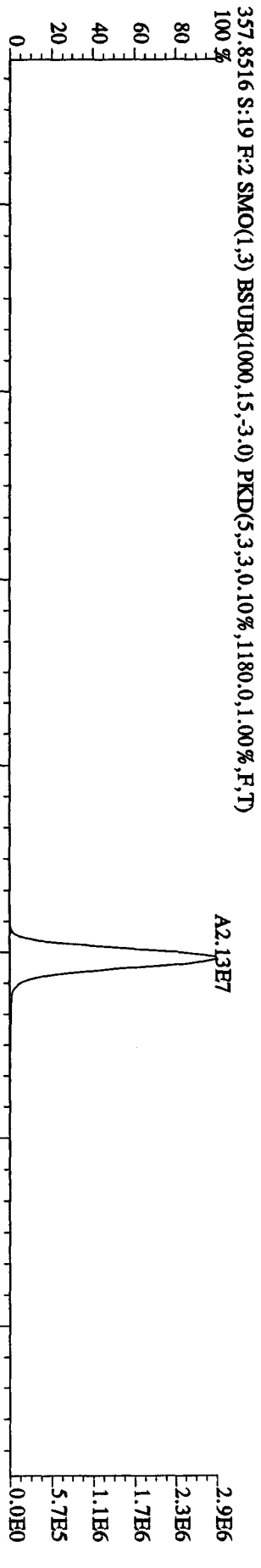
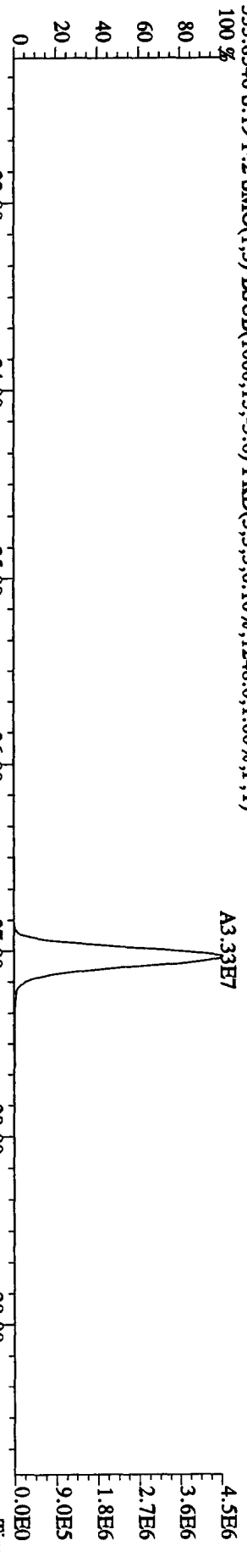


File:21AP10B4D5 #1-434 Acq:22-APR-2010 10:18:47 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#19 Text:ST0421C :CS3 10DXN111 Exp:DIOXINRES8290A  
 339.8597 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,472.0,1.00%,F,T)

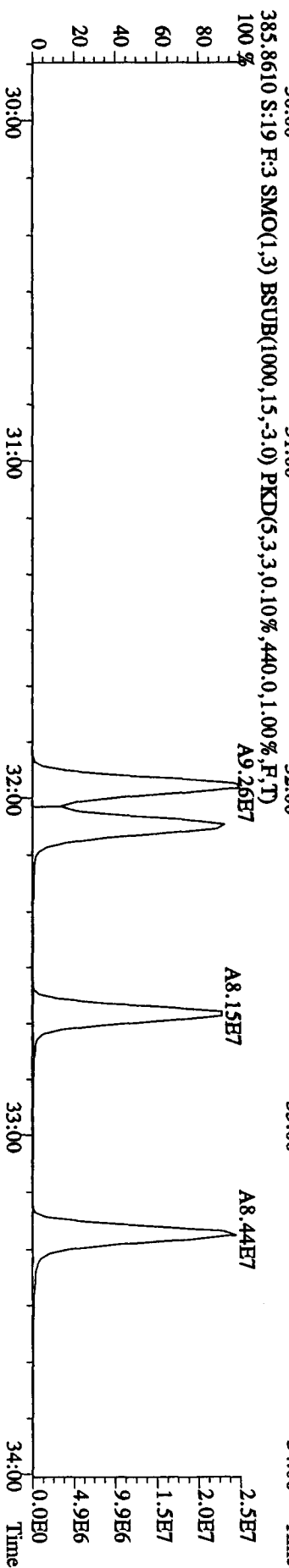
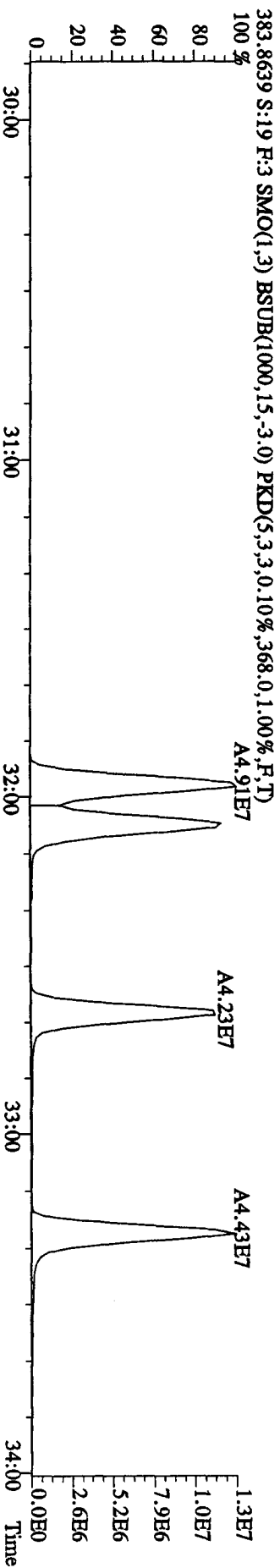
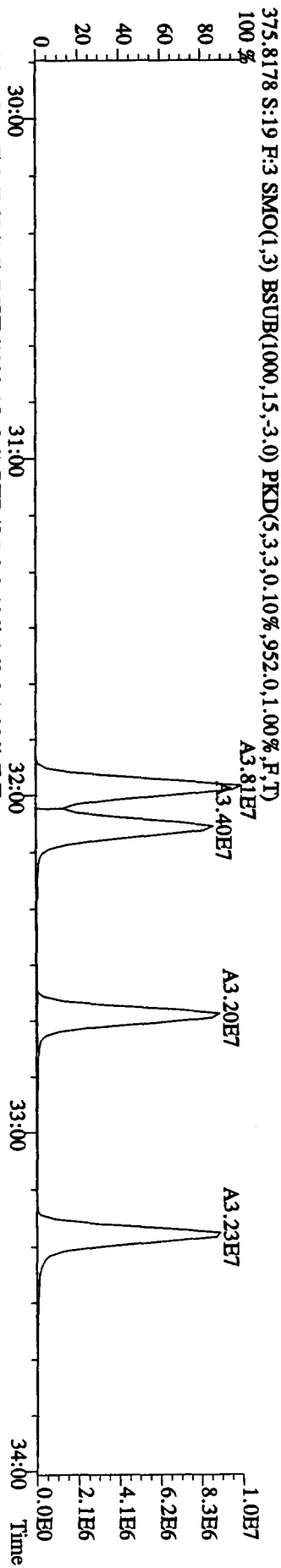
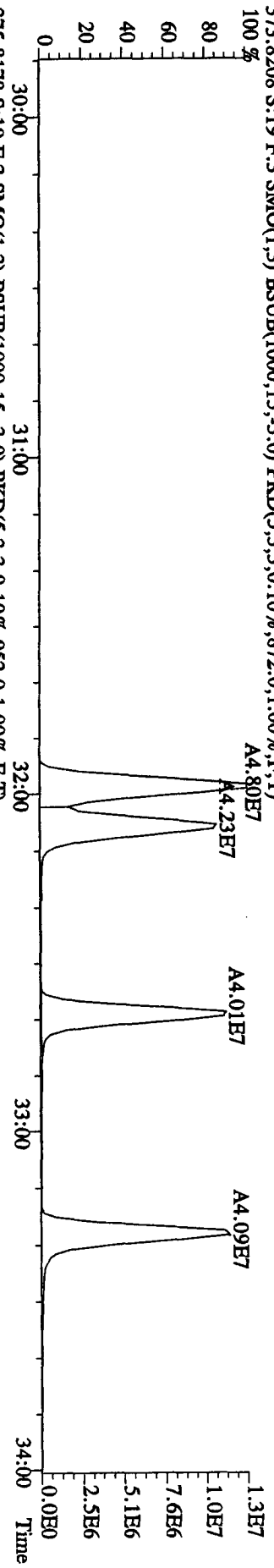




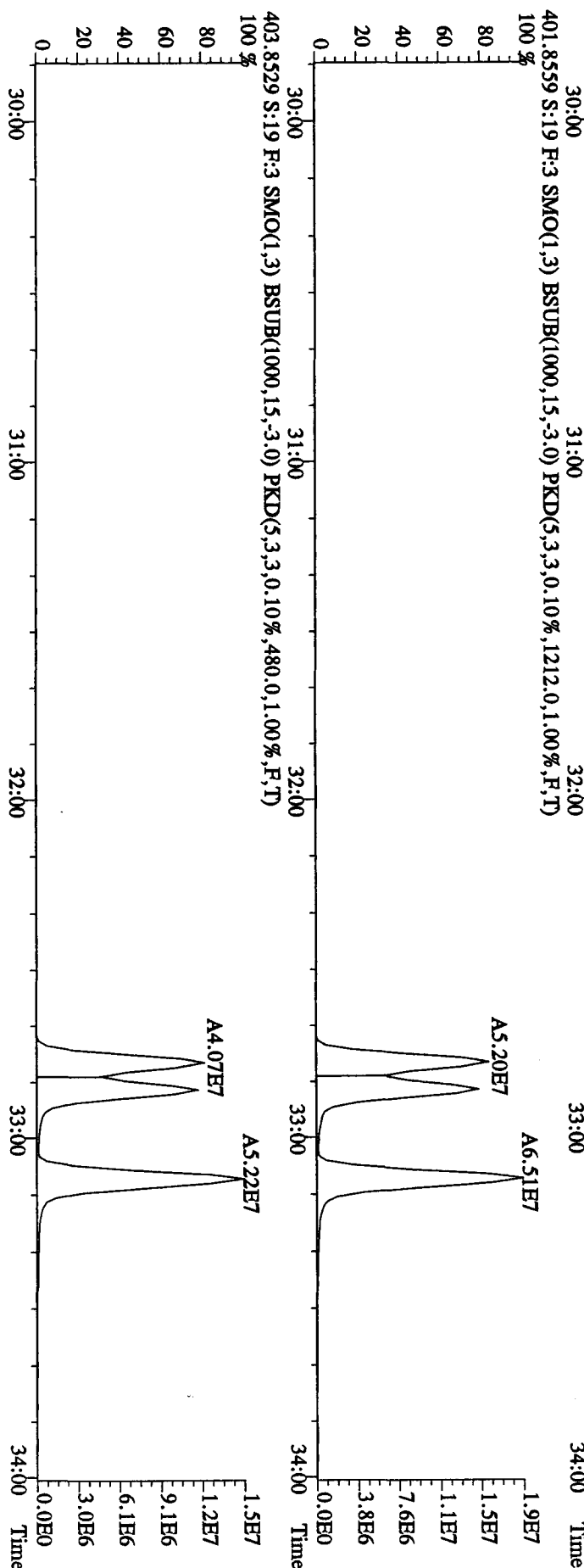
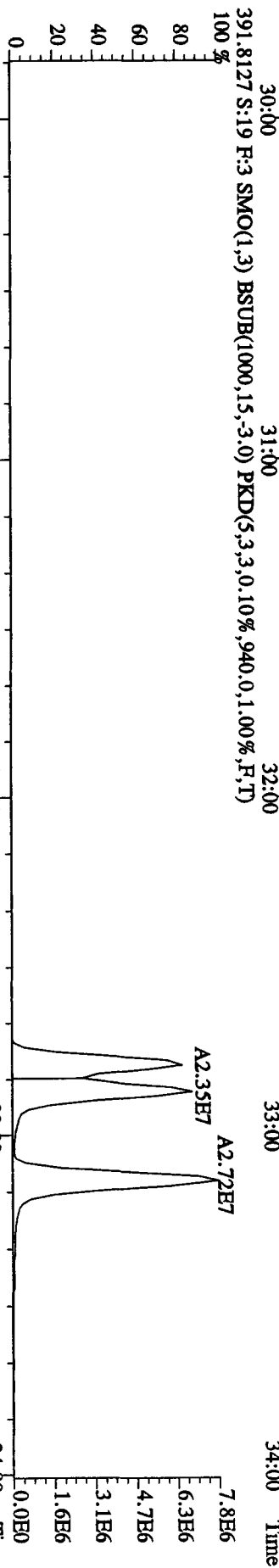
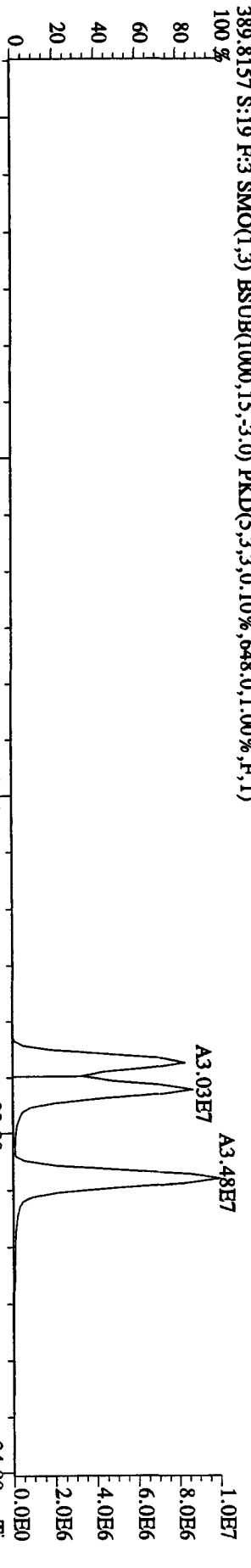
File:21AP10B4D5 #1-604 Acq:22-APR-2010 10:18:47 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#19 Text:ST0421C :CS3 10DXN111 Exp:DIOXINRES8290A  
 355.8546 S:19 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1248.0,1.00%,F,T)



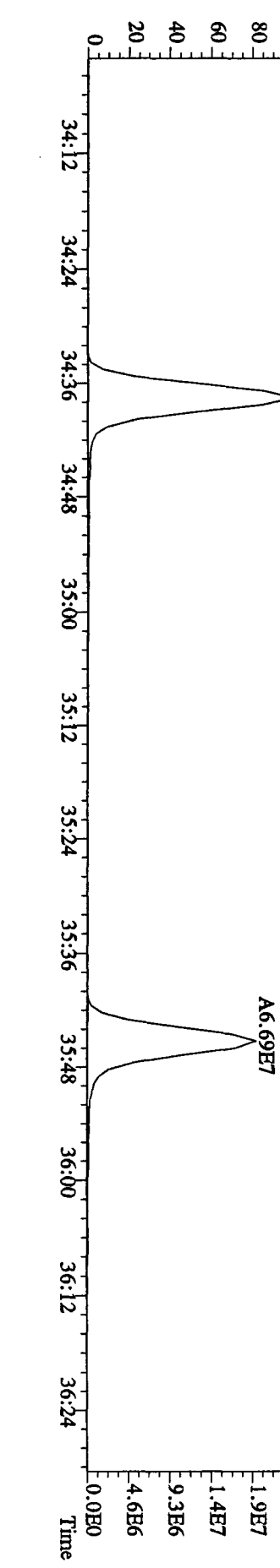
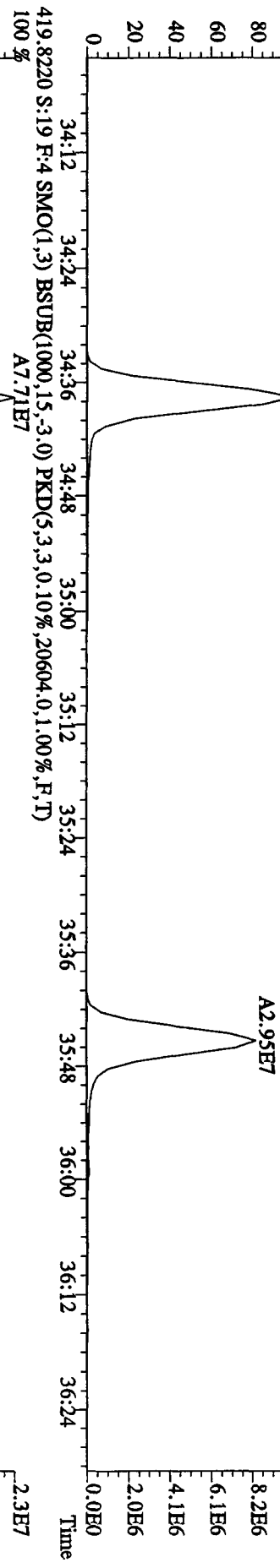
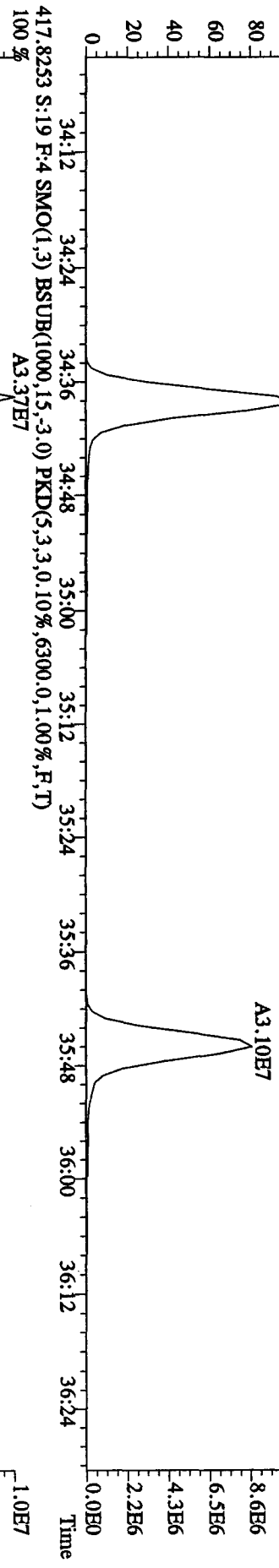
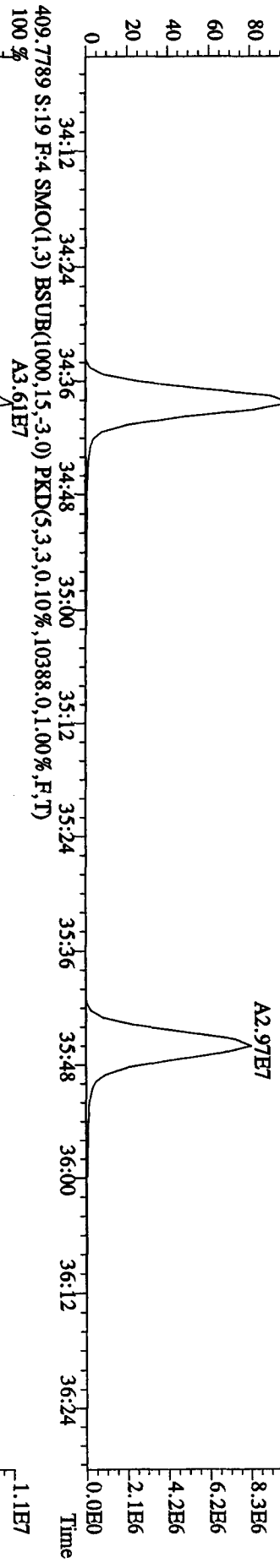
File:21AP10BAD5 #1-317 Acq:22-APR-2010 10:18:47 GC HI+ Voltage SIR Autospec-UltimaE  
 Sample#19 Text:ST0421C :CS3 10DXN111 Exp:DIOXINRES8290A  
 373.8208 S:19 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,872.0,1.00%,F,T)  
 100 %



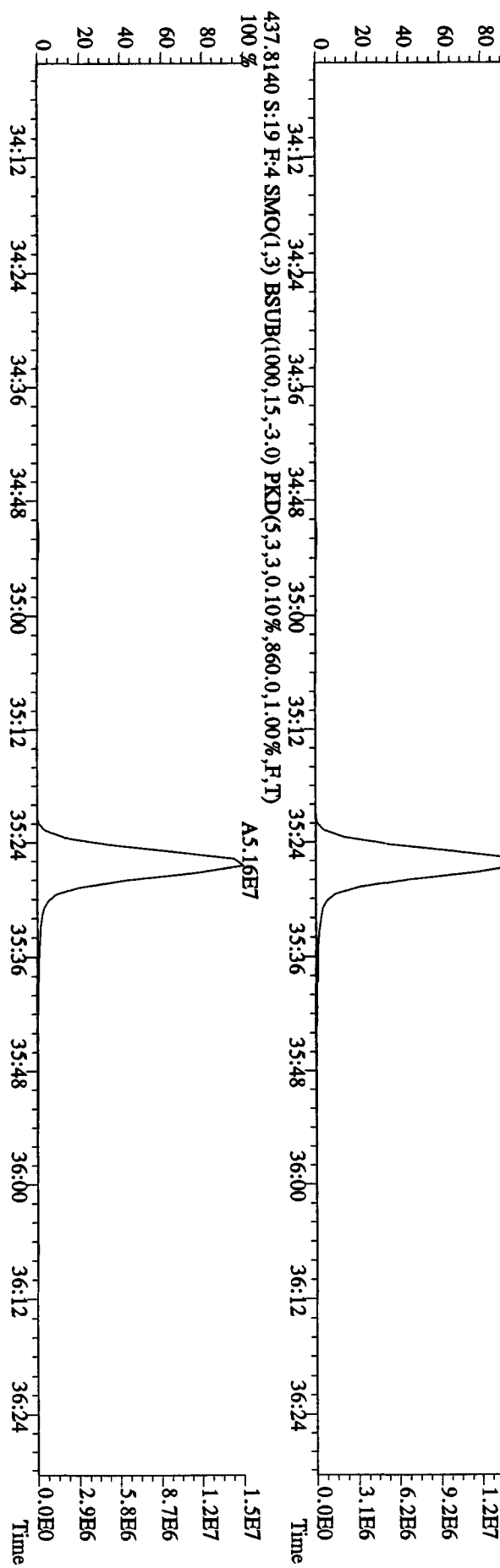
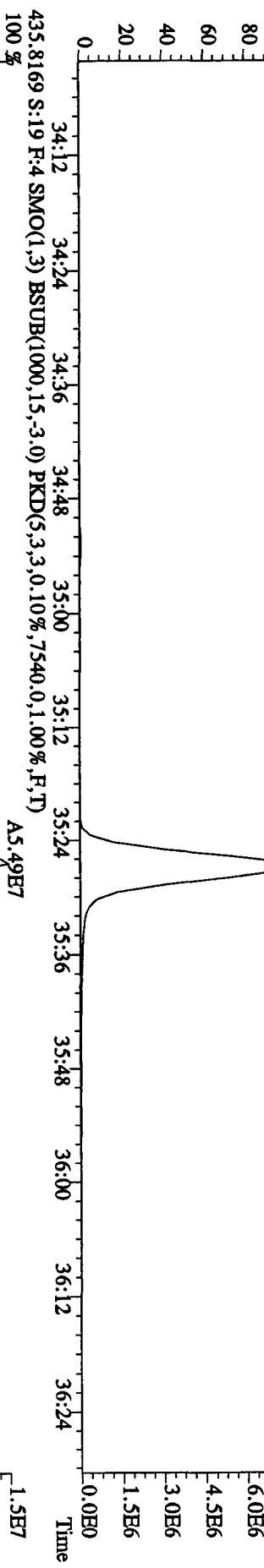
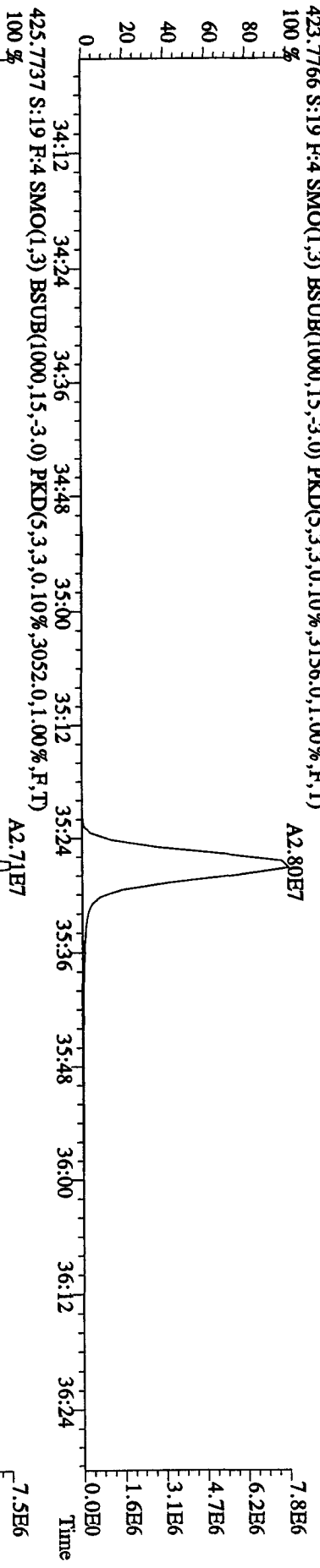
File:21AP10B4D5 #1-317 Acq:22-APR-2010 10:18:47 GC EI+ Voltage:500V SIR Autospec-Ultimate  
 Sample#19 Text:ST0421C :CS3 10DXN111 Exp:DIOXINRES8290A  
 389.8157 S:19 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,648,0,1,00%,F,T)  
 100%



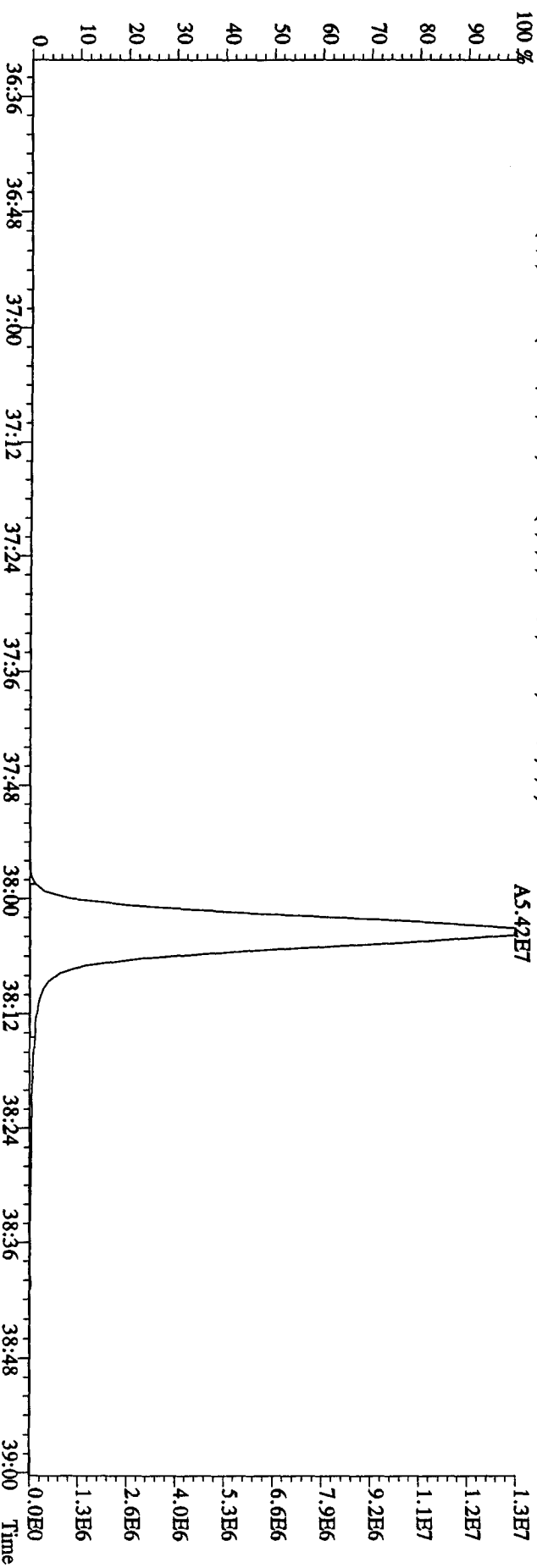
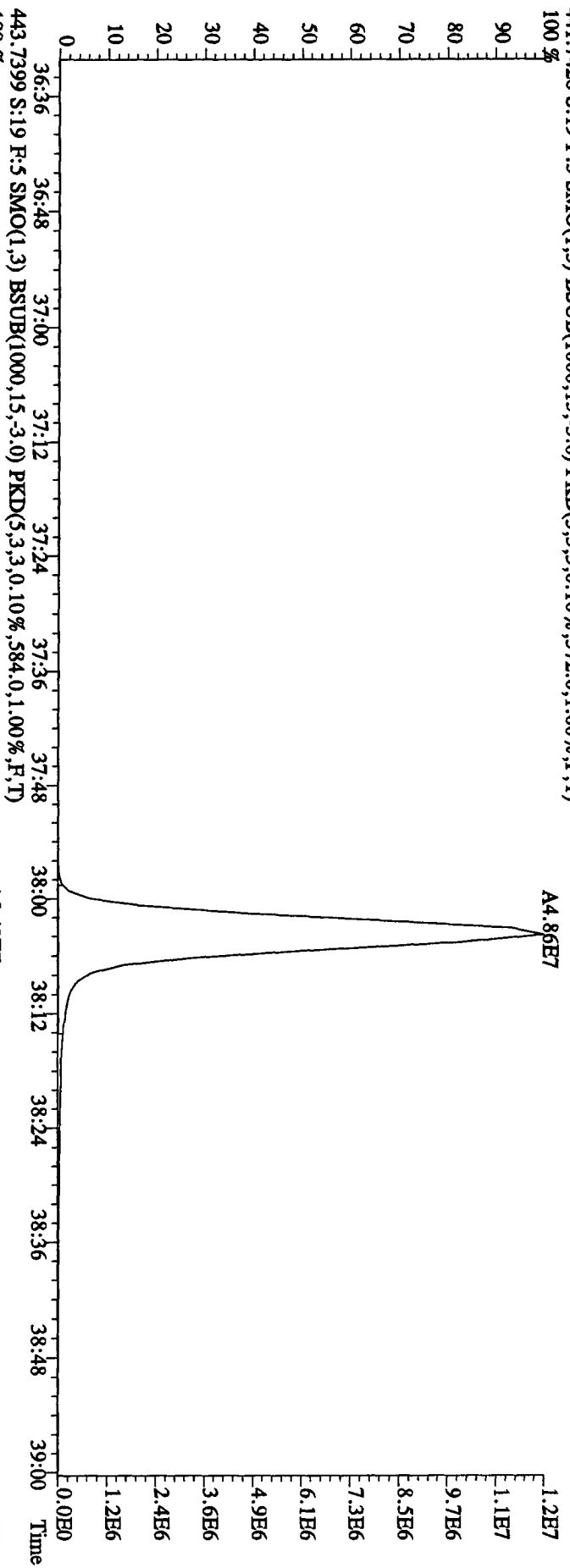
File:21AD10B4D5 #1-198 Acq:22-APR-2010 10:18:47 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#19 Text:ST0421C :CS3 10DXN111 Exp:DIOXINRES8290A  
 407.7818 S:19 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,9188,0,1.00%,F,T)



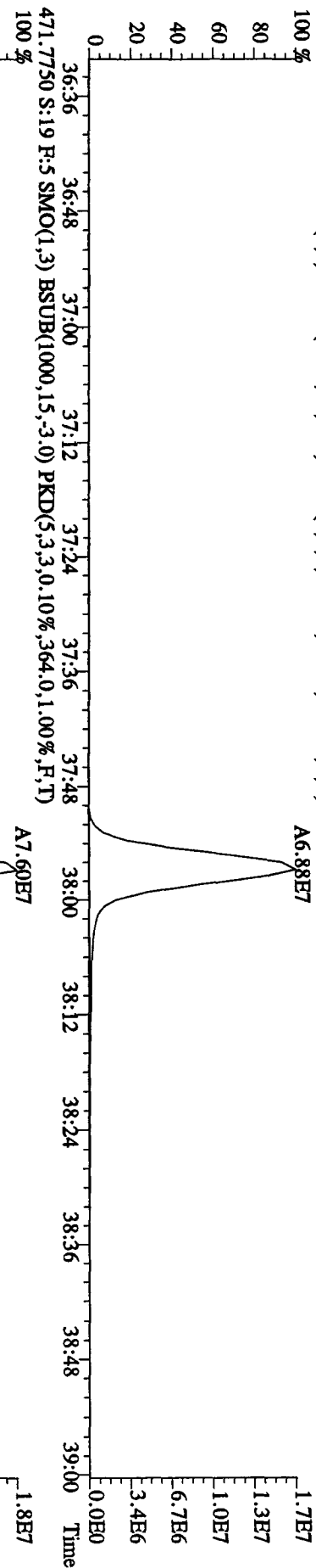
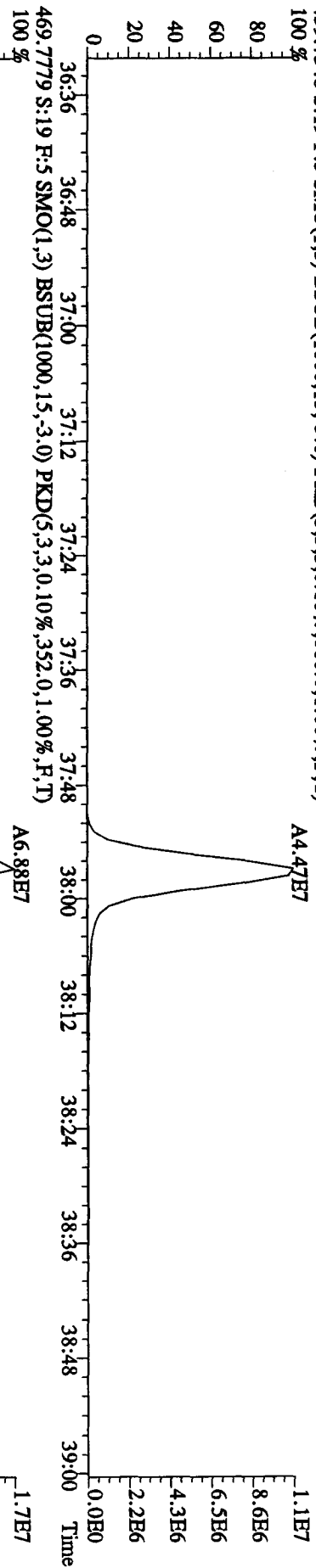
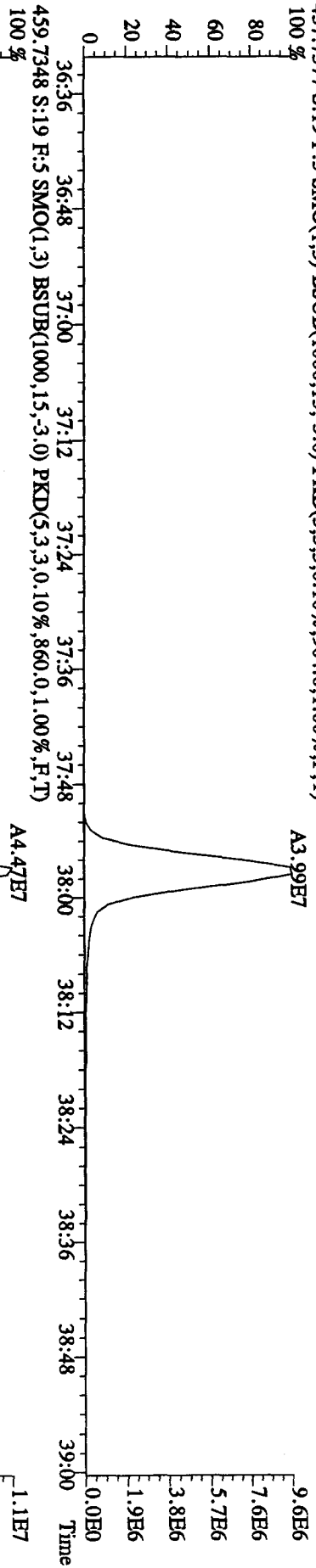
File: 21AP10B4D5 #1-198 Acq: 22-APR-2010 10:18:47 GC: EI+ Voltage: SIR Autospec-UltimaB  
 Sample#19 Text: ST0421C :CS3 10DXN111 Exp: DIOXINRES8290A  
 422.7766 S:19 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.3156,0.1,0.0%,F,T)



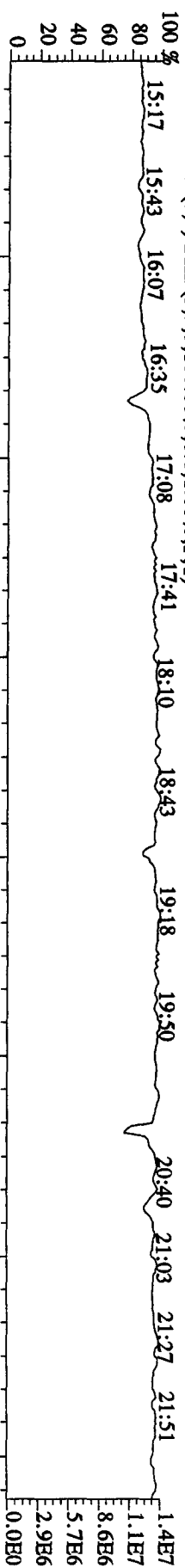
File:21AP10B4D5 #1-190 Acq:22-APR-2010 10:18:47 GC HI+ Voltage SIR Autospec-Ultimate  
Sample#19 Text:ST0421C :CS3 10DXN111 Exp:DIOXINRES8290A  
441.7428 S:19 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.372,0,1.00%,F,T)  
100 %



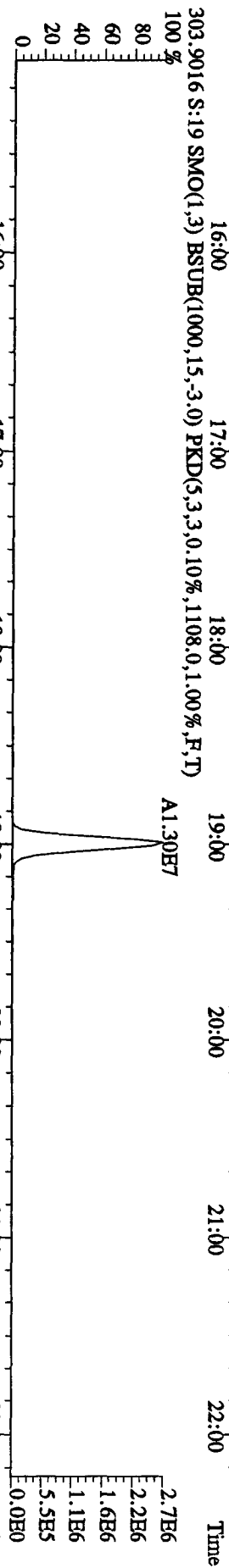
File:21AP10B4D5 #1-190 Acq:22-APR-2010 10:18:47 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#19 Text:ST0421C :CS3 10DXN111 Exp:DIOXINRES8290A  
457.7377 S:19 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,904.0,1.00%,F,T)  
100%



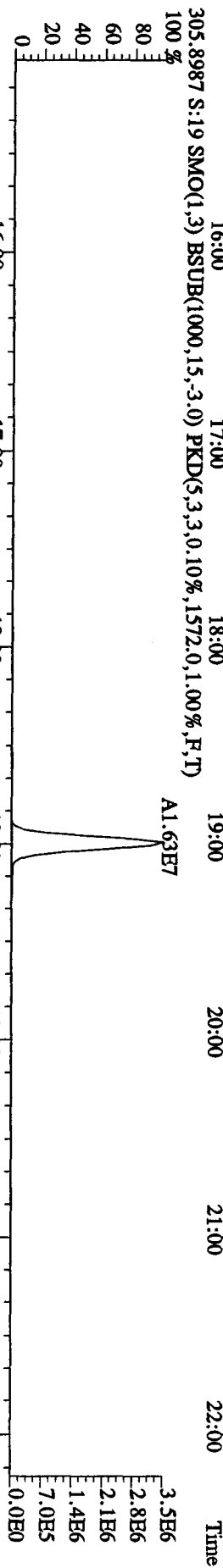
354.9792 S:19 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



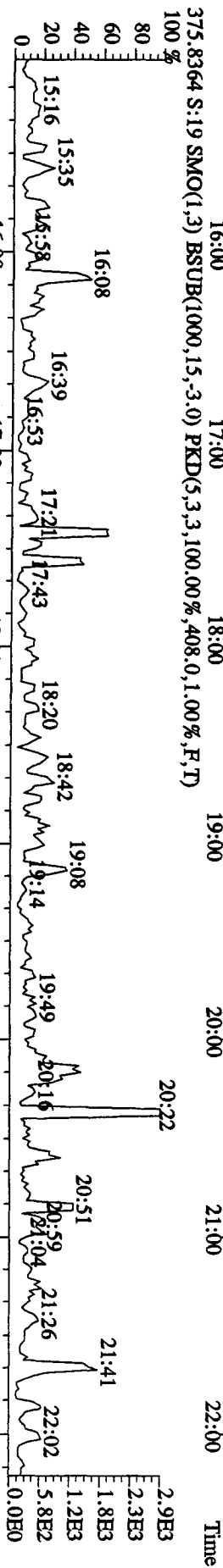
303.9016 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1.108,0.1,0.0%,F,T)



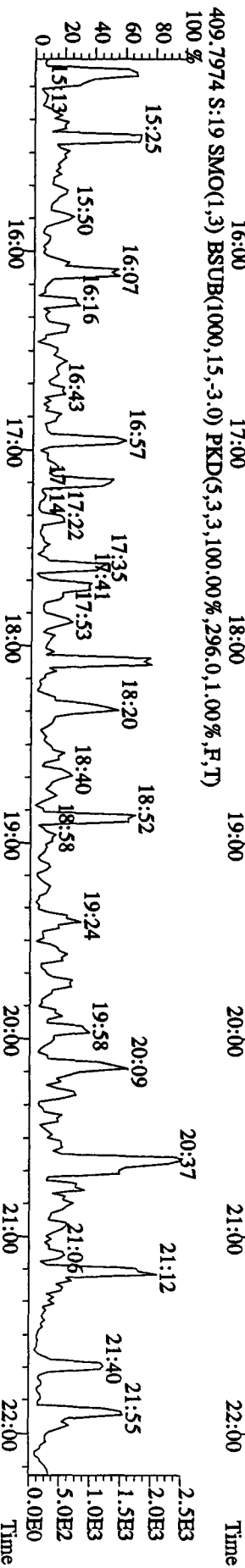
305.8987 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1.572,0.1,0.0%,F,T)



375.8364 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,408,0.1,0.0%,F,T)

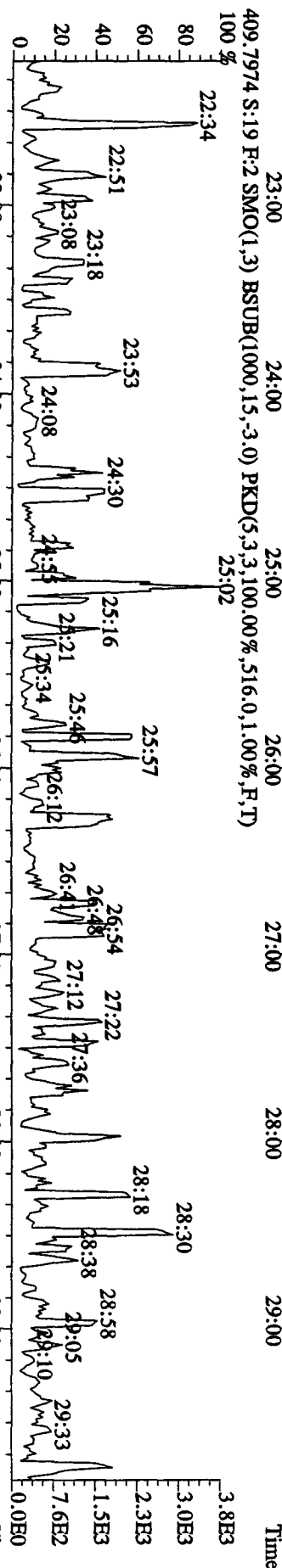
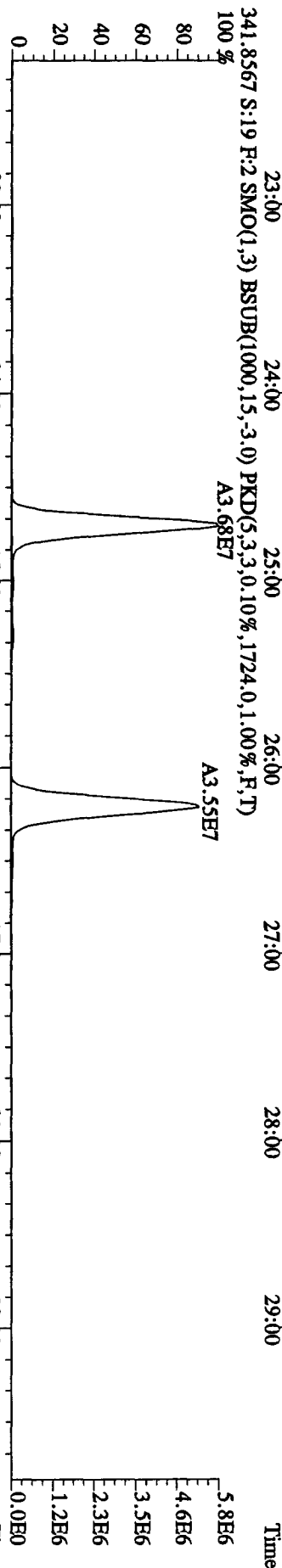
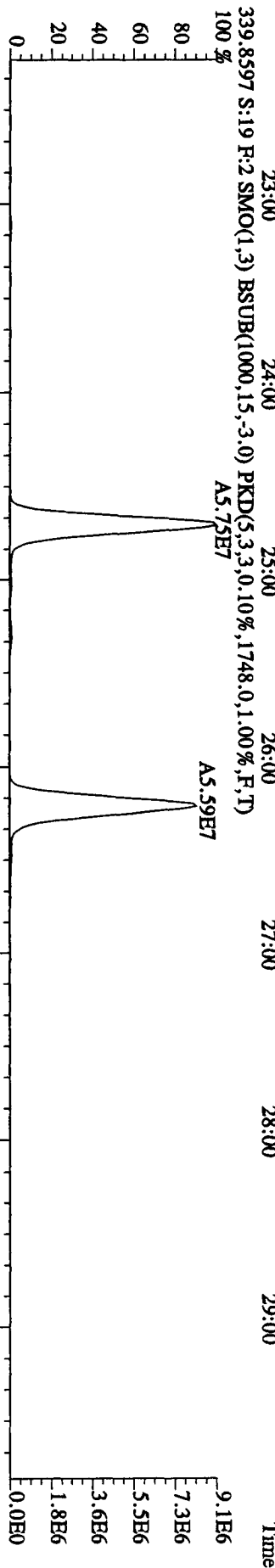
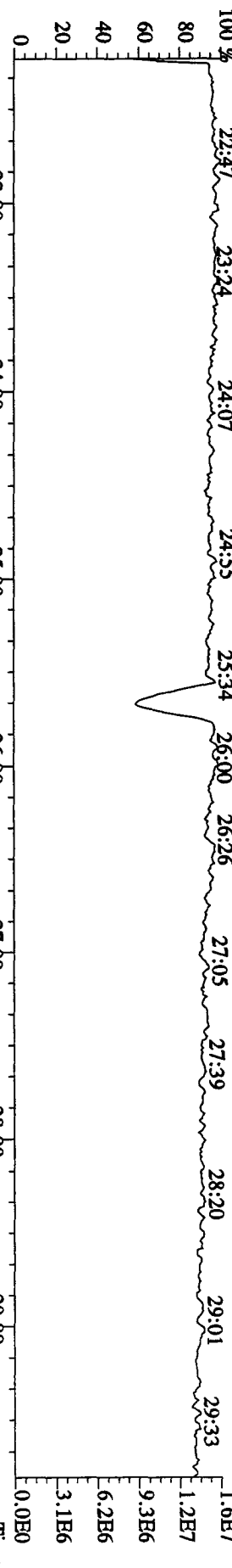


409.7974 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,296,0.1,0.0%,F,T)

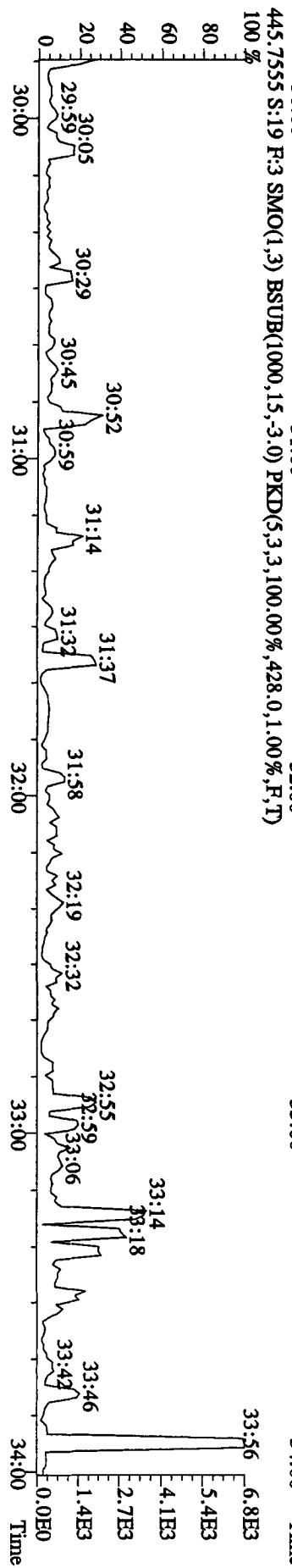
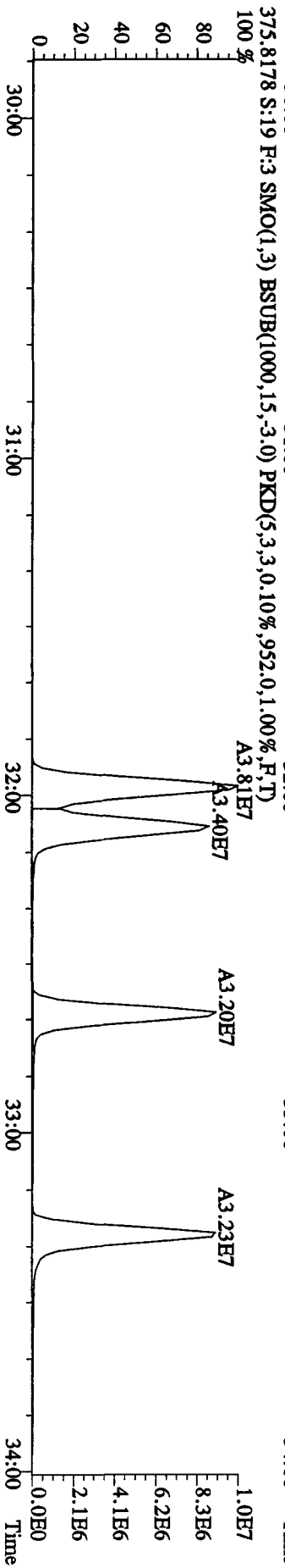
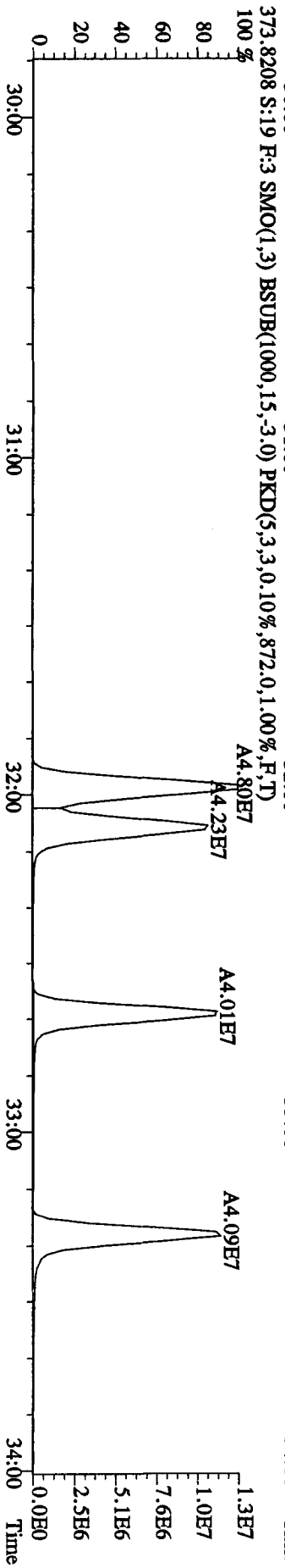
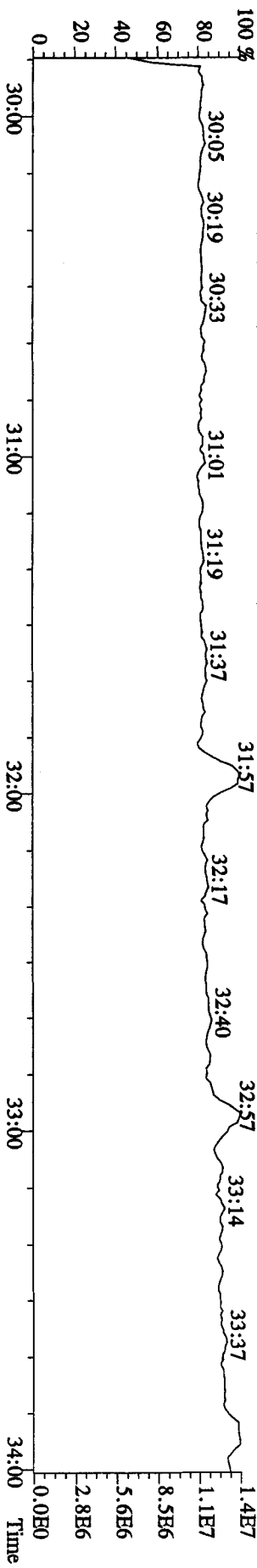




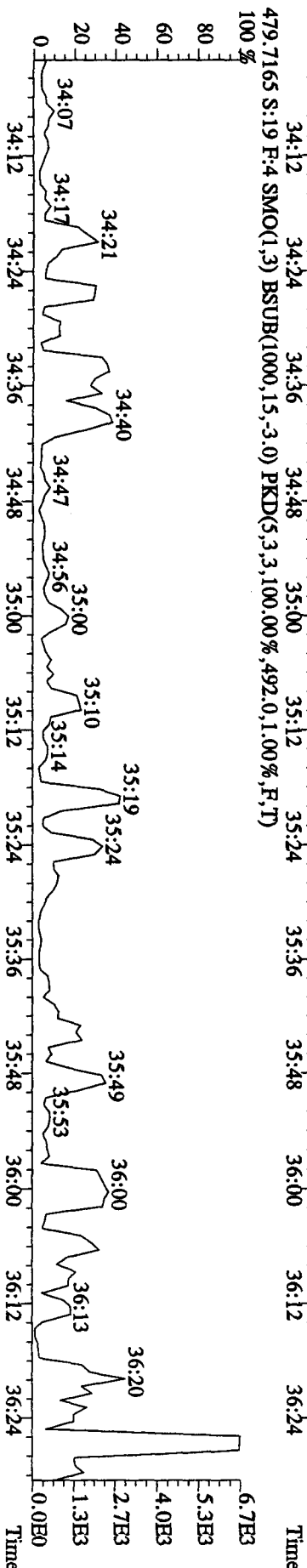
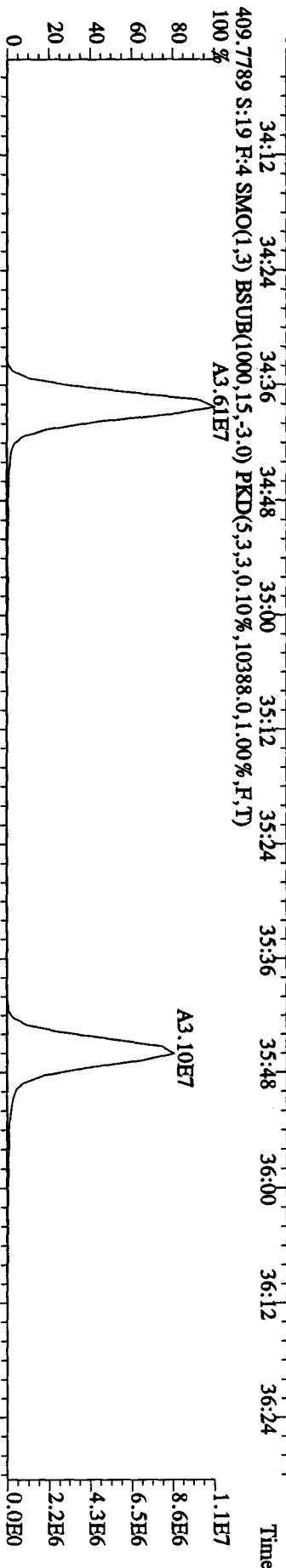
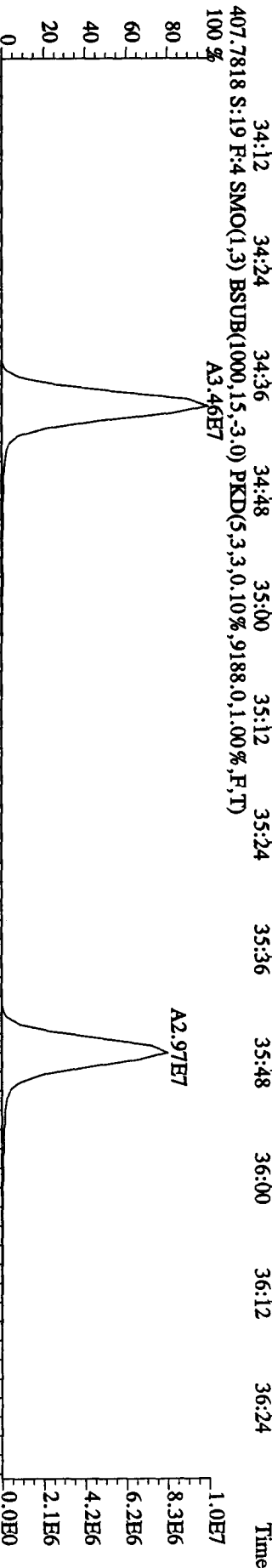
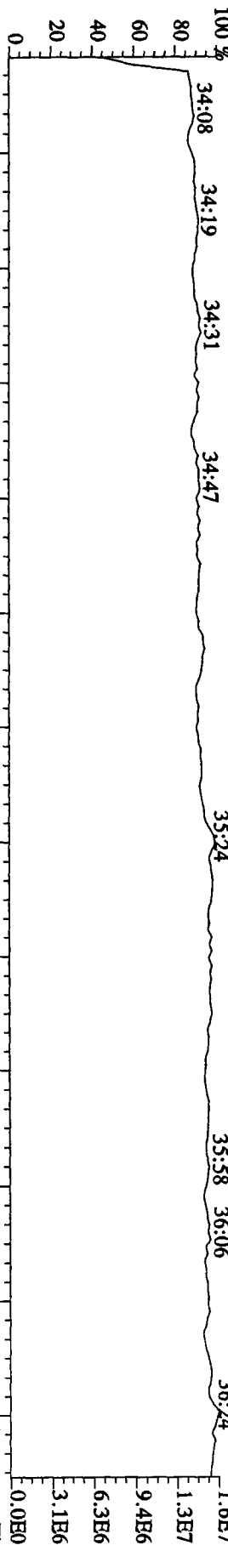
File: 21AP10B4D5 #1-604 Acq: 22-APR-2010 10:18:47 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#19 Text: ST0421C : CS3 10DXN111 Exp: DIOXINRES8290A



File:21AP10B4D5 #1-317 Acq:22-APR-2010 10:18:47 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#19 Text:ST0421C :CS3 10DXN111 Exp:DIOXINRES8290A  
 430.9728 S:19 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



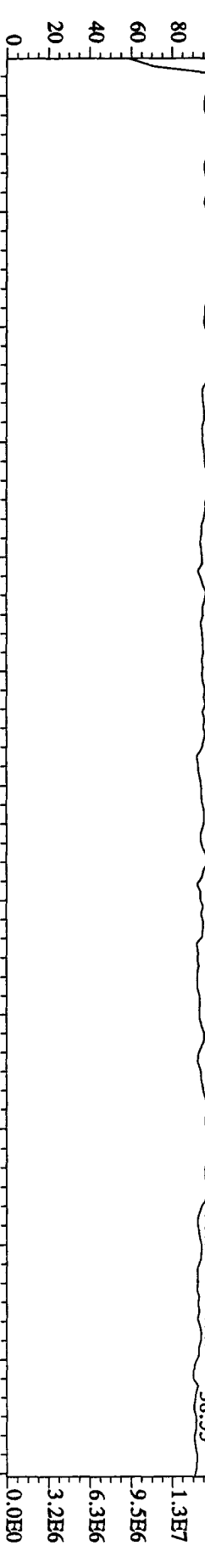
File: 21AP10B4D5 #1-198 Acq: 22-APR-2010 10:18:47 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#19 Text: ST0421C :CS3 10DXN111 Exp: DIOXINRES8290A  
 430.9728 S:19 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



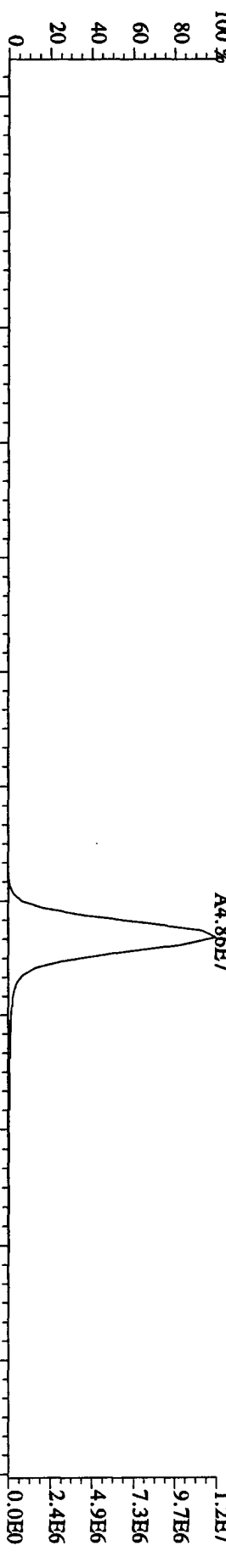
File:21AP10B4D5 #1-190 Acq:22-APR-2010 10:18:47 GC EI+ Voltage SIR Autospec-UltimaE

Sample#19 Text:ST0421C :CS3 10DXN111 Exp:DIOXINRES8290A

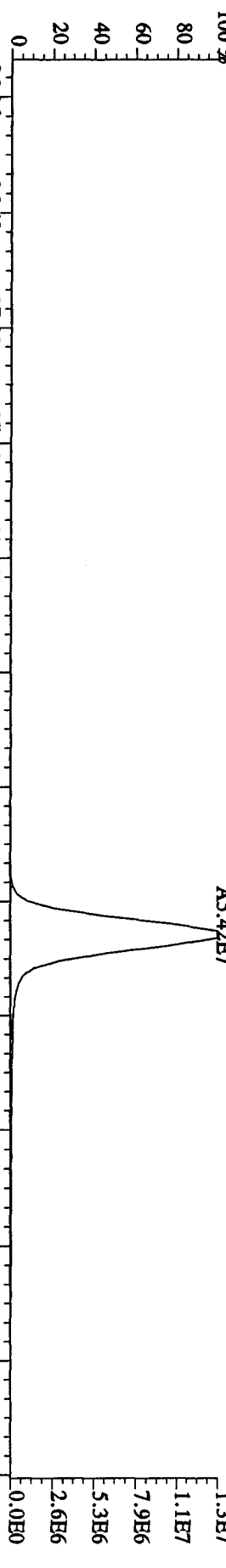
442.9728 S:19 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



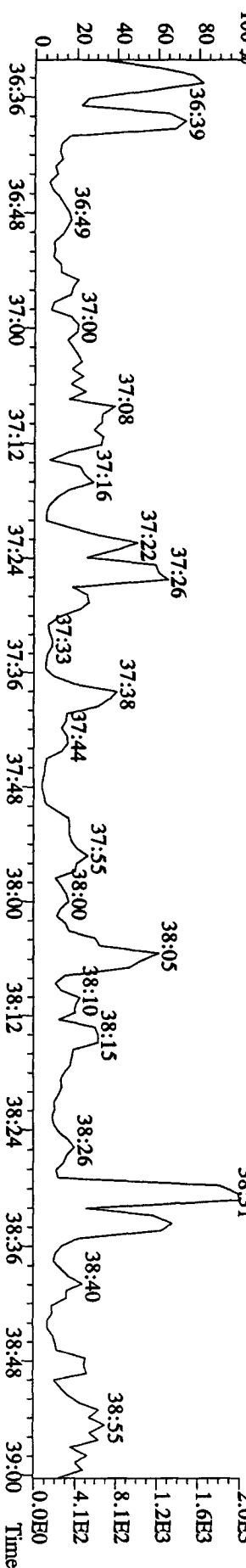
441.7428 S:19 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,372.0,1.00%,F,T)



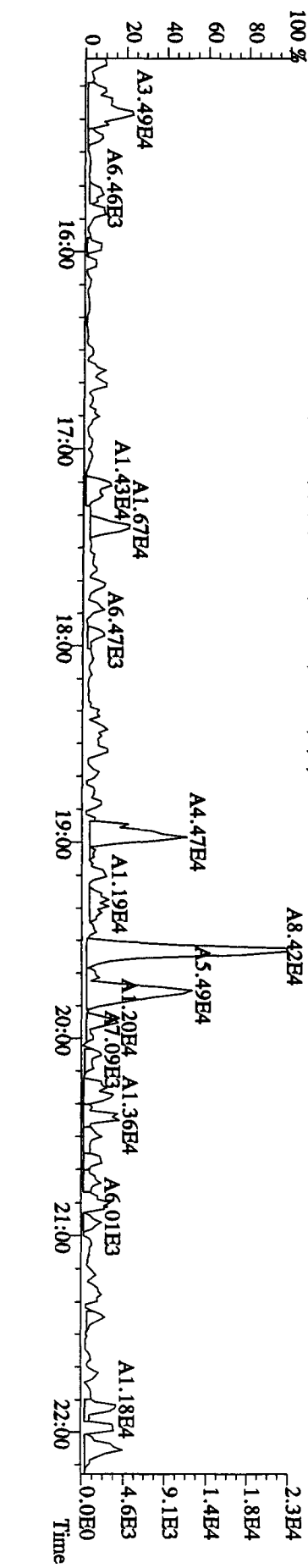
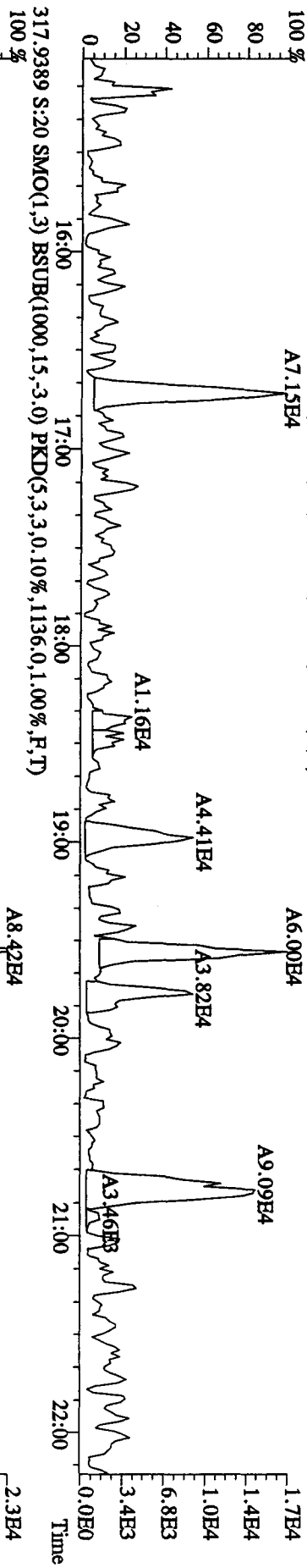
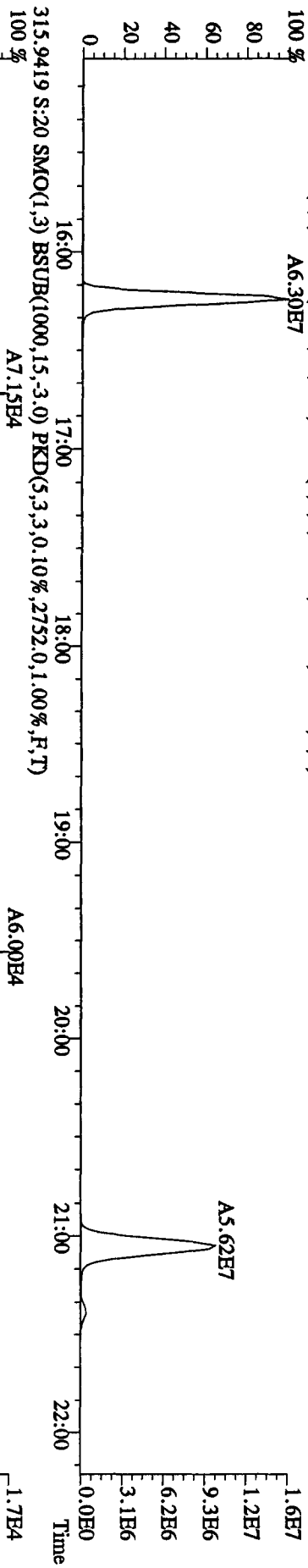
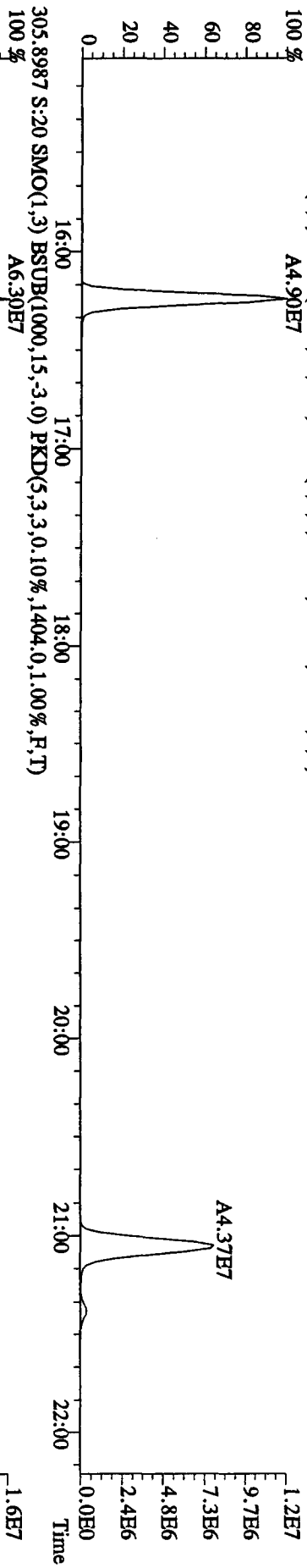
443.7399 S:19 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,584.0,1.00%,F,T)



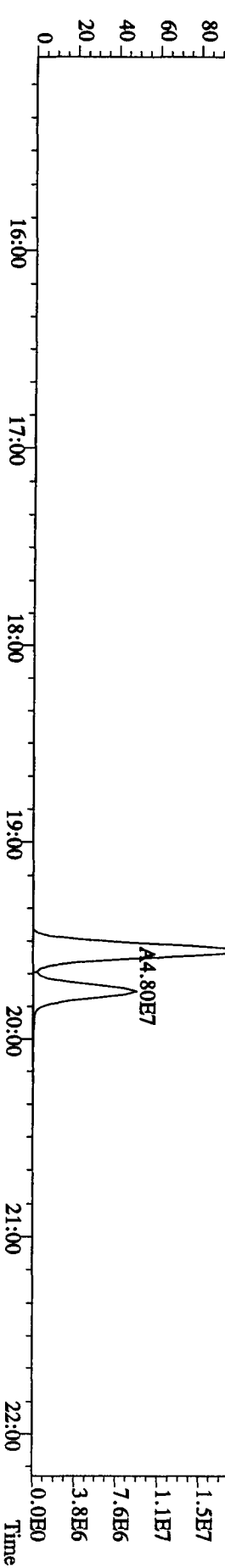
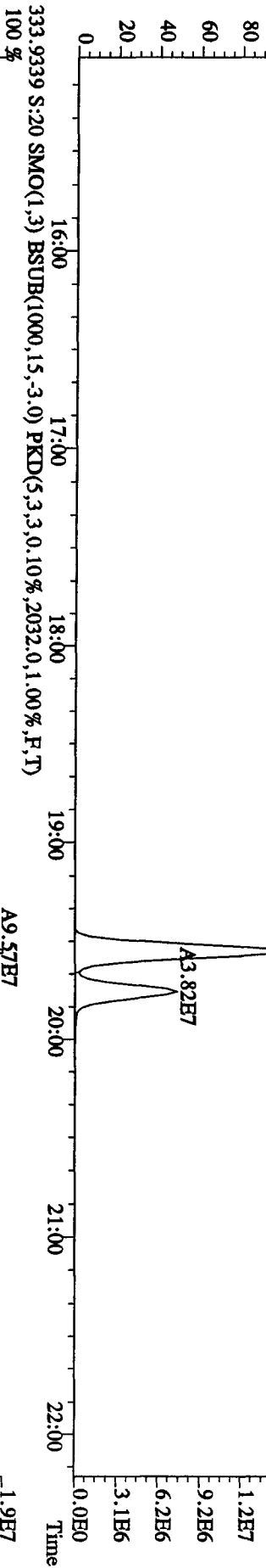
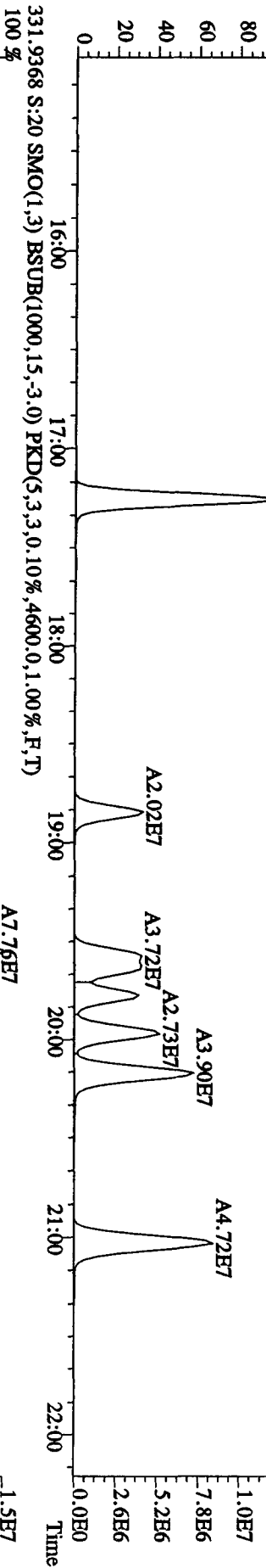
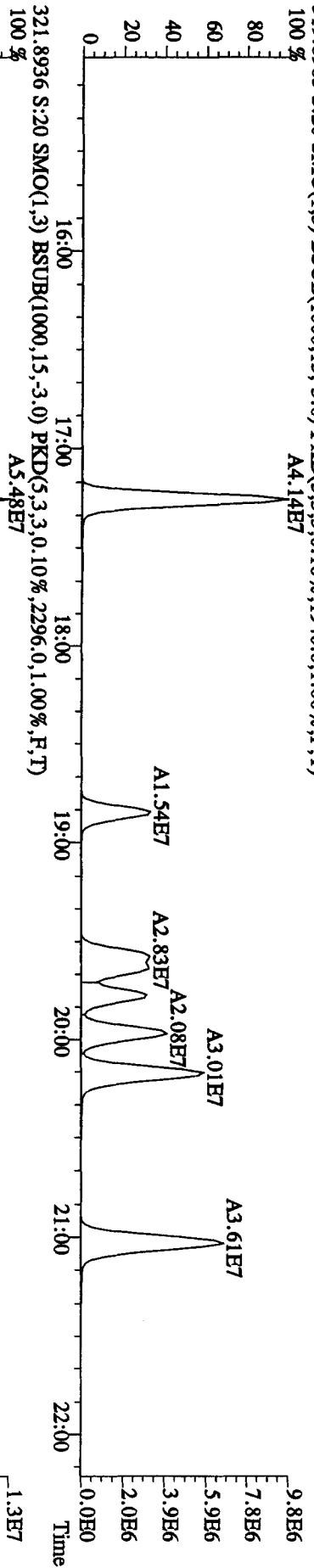
513.6775 S:19 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,328.0,1.00%,F,T)



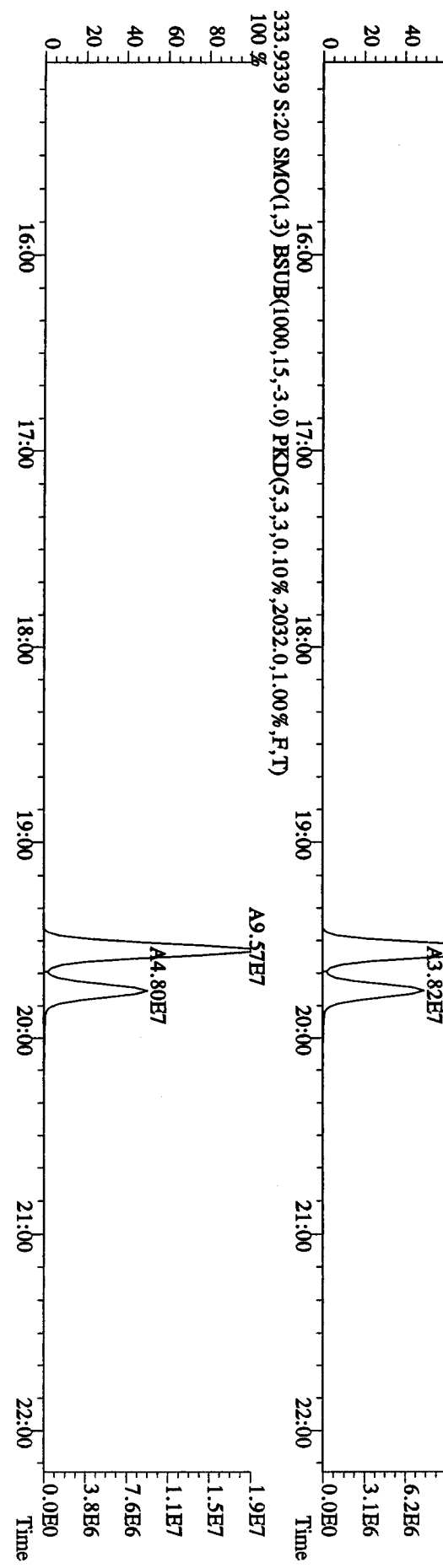
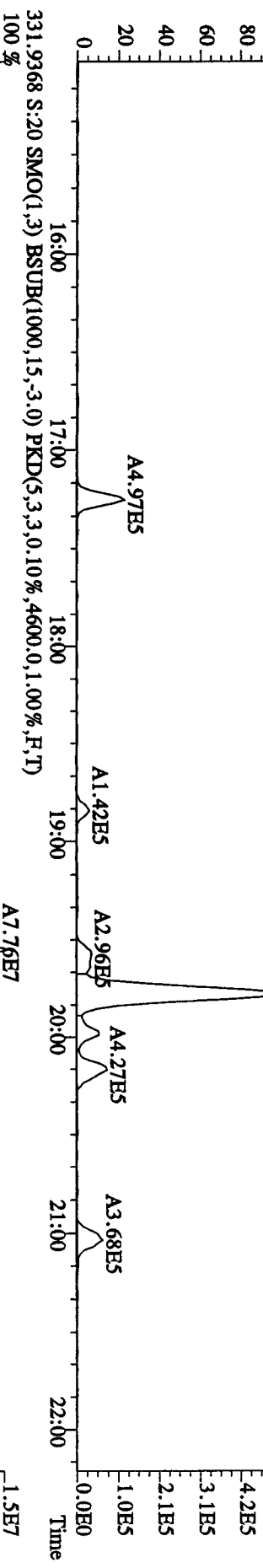
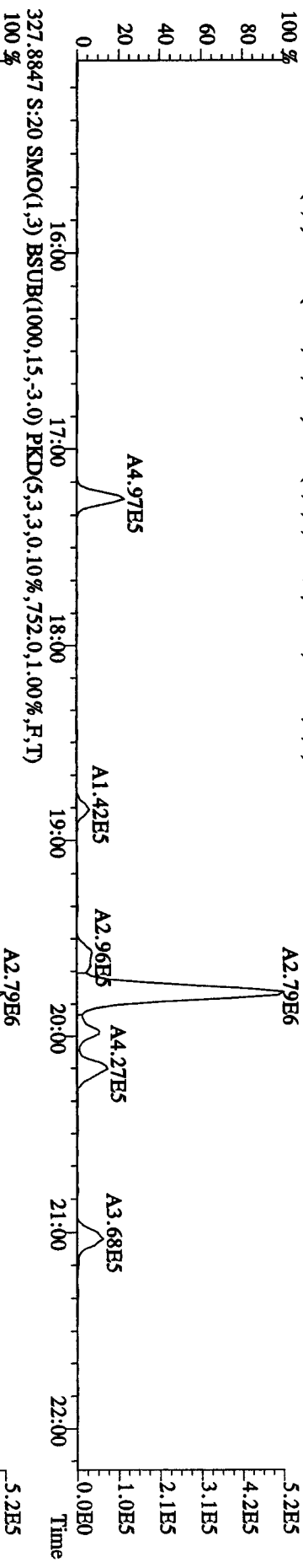
File:21AP10B4D5 #1-434 Acq:22-APR-2010 11:02:50 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#20 Text:CP0421B :DB-5 CPSM 3732-05 Exp:DIOXINRES8290A  
 303.9016 S:20 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2224.0,1.00%,F,T)  
 100 %



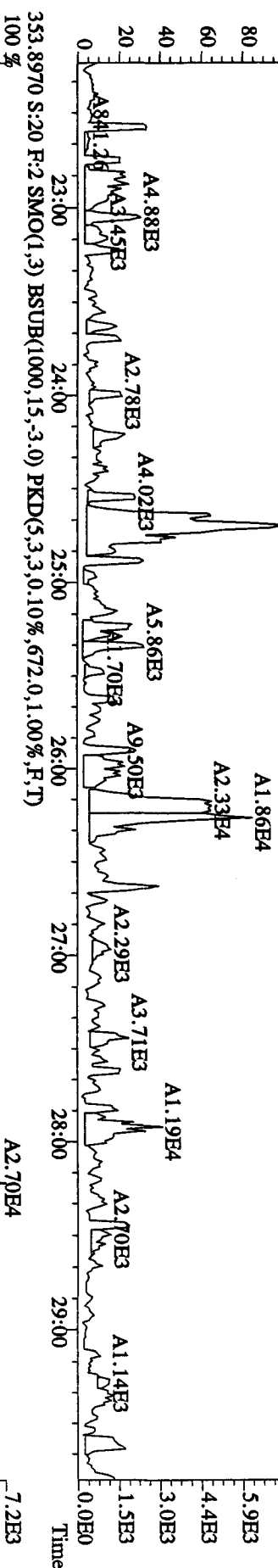
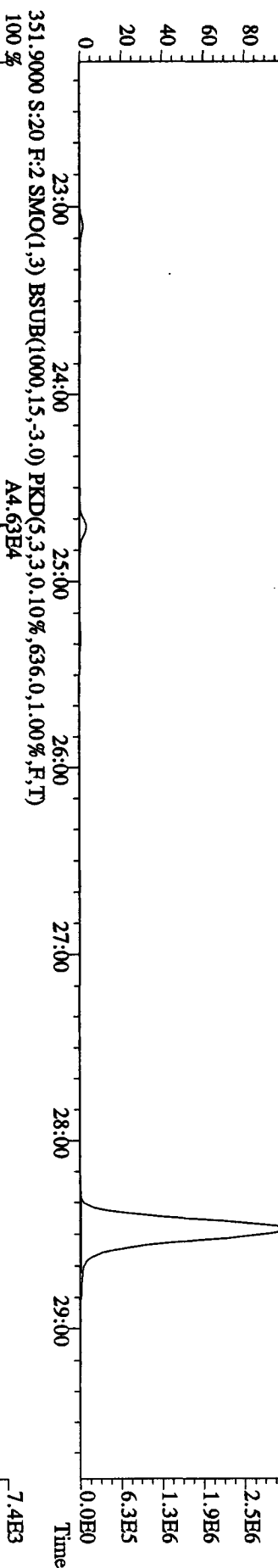
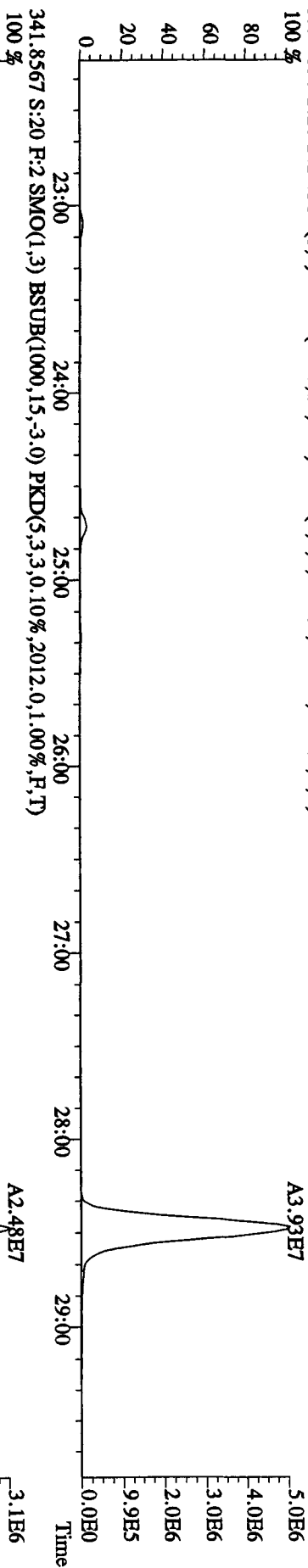
File:21AP10B4D5 #1-434 Acq:22-APR-2010 11:02:50 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#20 Text:CP0421B :DB-5 CP5M 3732-05 Exp:DIOXINRES8290A  
 319.8965 S:20 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1940,0,1,00%,F,T)  
 100 % A4.14E7



File:21AP10B4D5 #1-434 Acq:22-APR-2010 11:02:50 GC EI + Voltage SIR Autospec-Ultimate  
 Sample#20 Text:CP0421B :DB-5 CP5M 3732-05 Exp:DIOXINRES8290A  
 327.8847 S:20 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,752.0,1.00%,F,T)

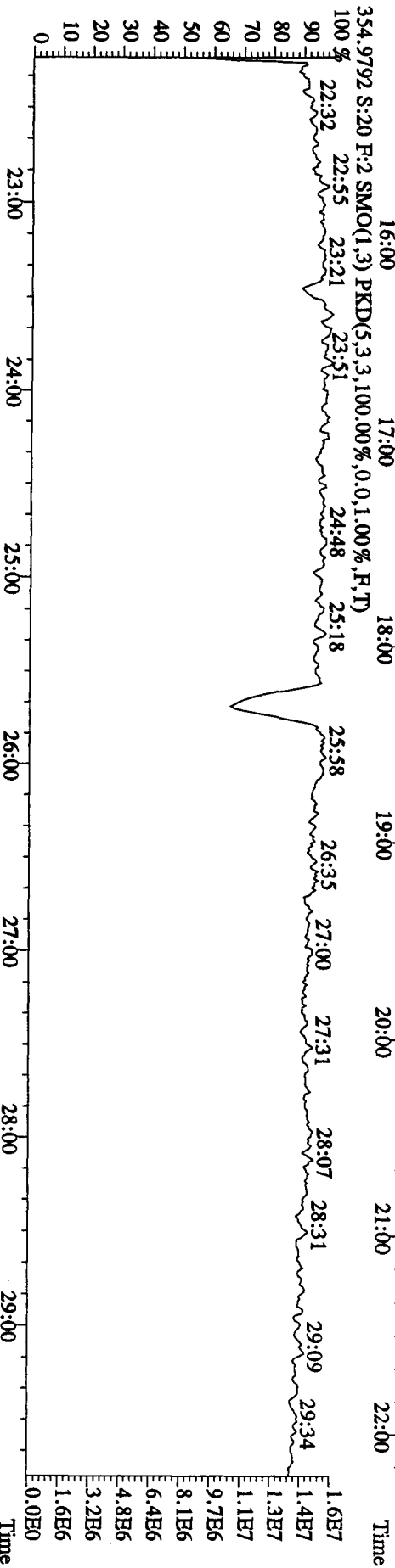
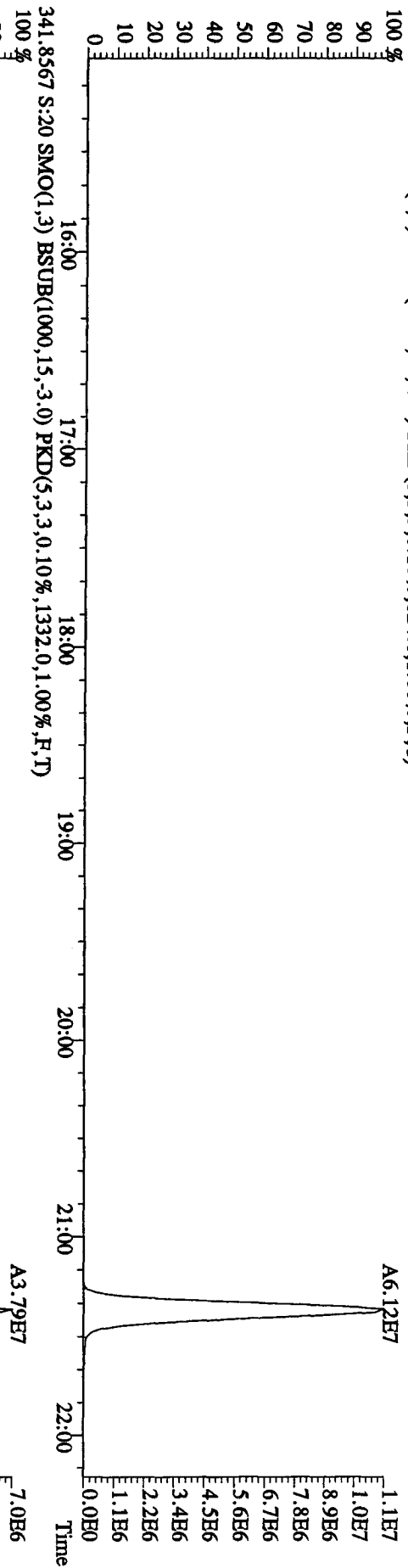


File: 21AP10B4D5 #1-604 Acq: 22-APR-2010 11:02:50 GC HI + Voltage SIR Autospec-Ultimate  
 Sample#20 Text: CP0421B :DB-5 CPISM 3732-05 Exp: DIOXINRES8290A  
 339.8597 S:20 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1560,0,1,00%,F,T)

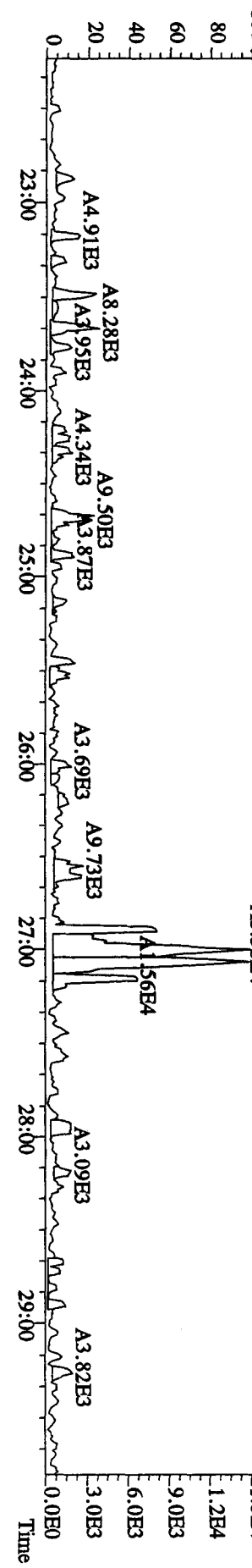
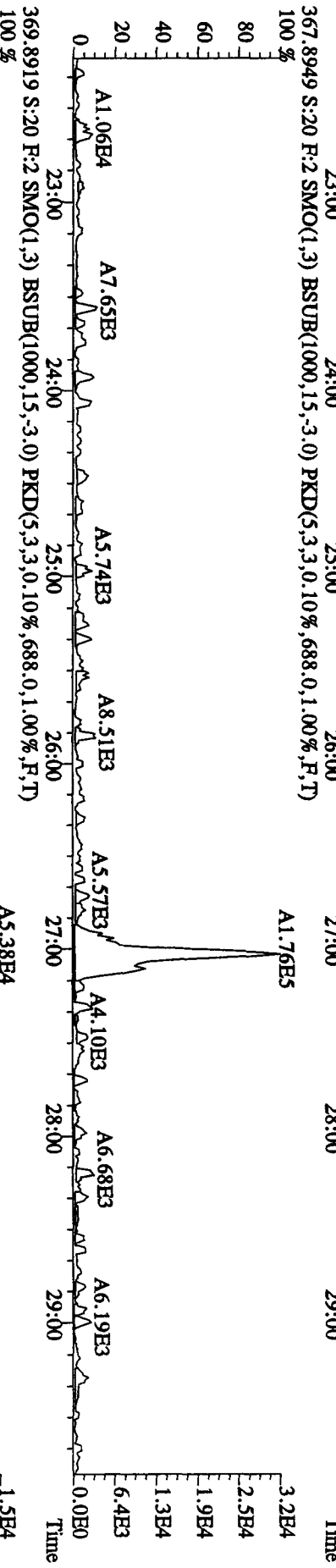
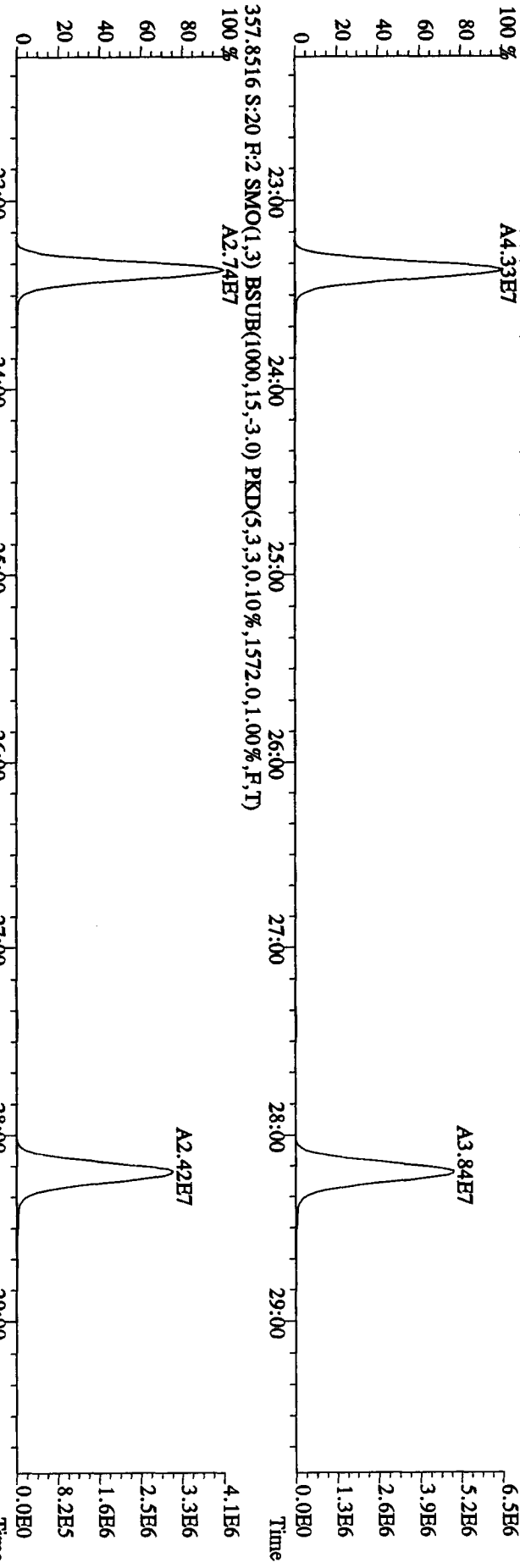




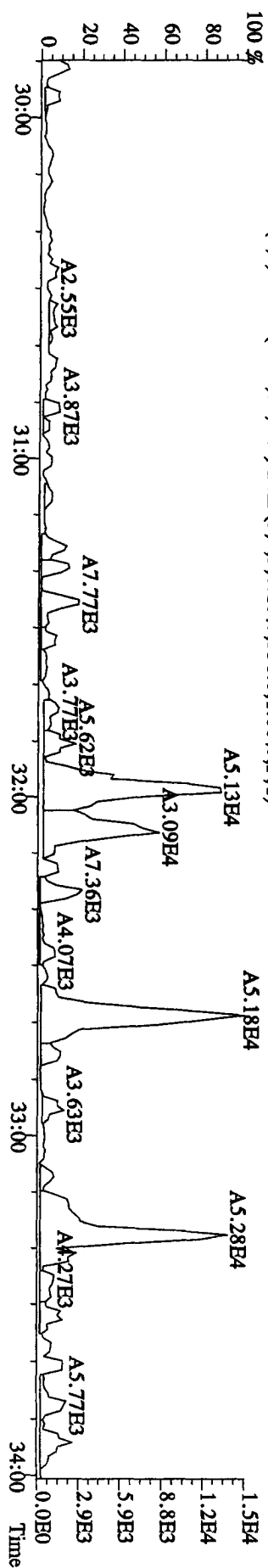
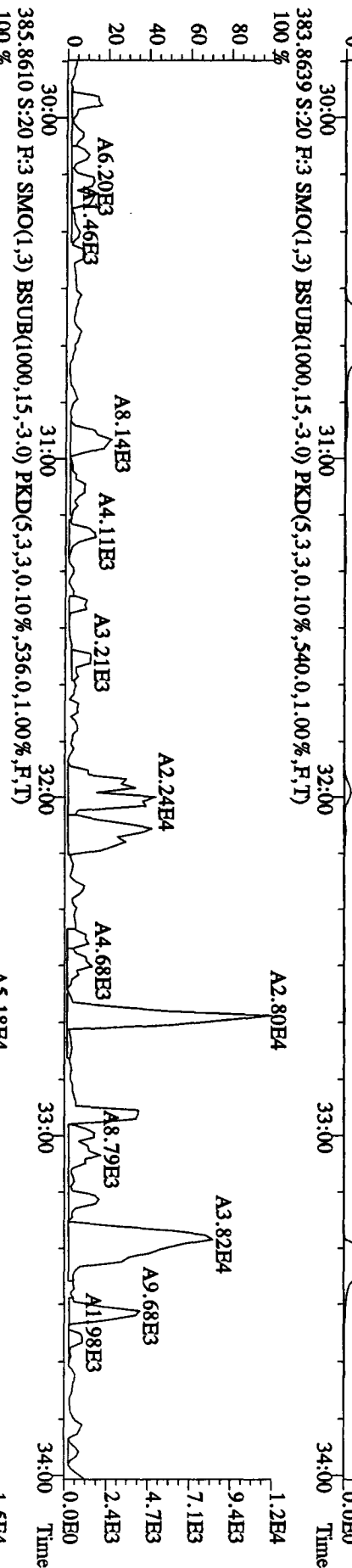
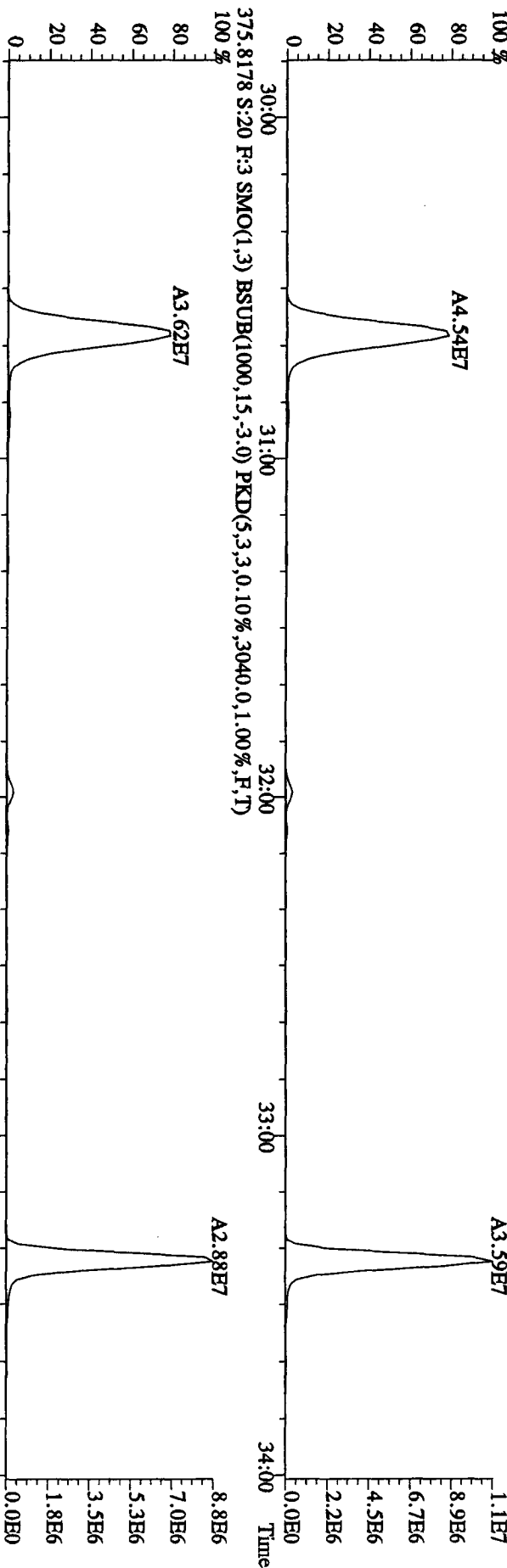
File:21AP10B4D5 #1-434 Acq:22-APR-2010 11:02:50 GC HI+ Voltage SIR Autospec-UltimaE  
 Sample#20 Text:CP0421B :DB-5 CP5M 3732-05 Exp:DIOXINRES8290A  
 339.8597 S:20 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,824.0,1.00%,F,T)



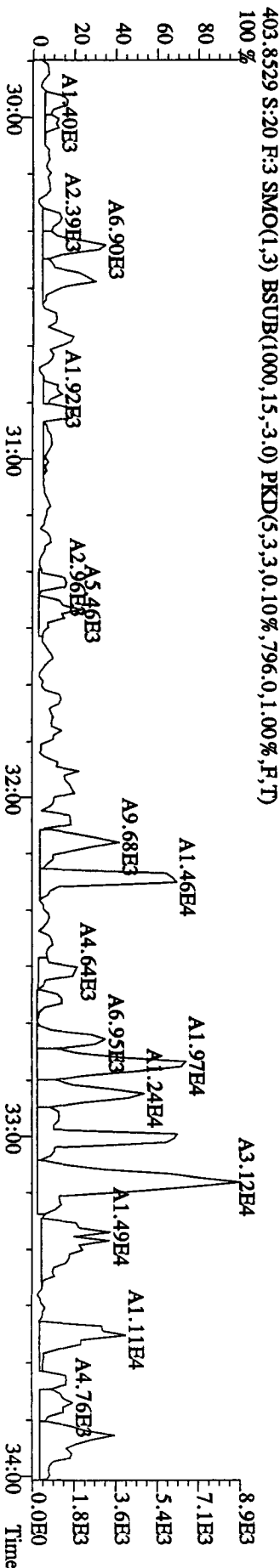
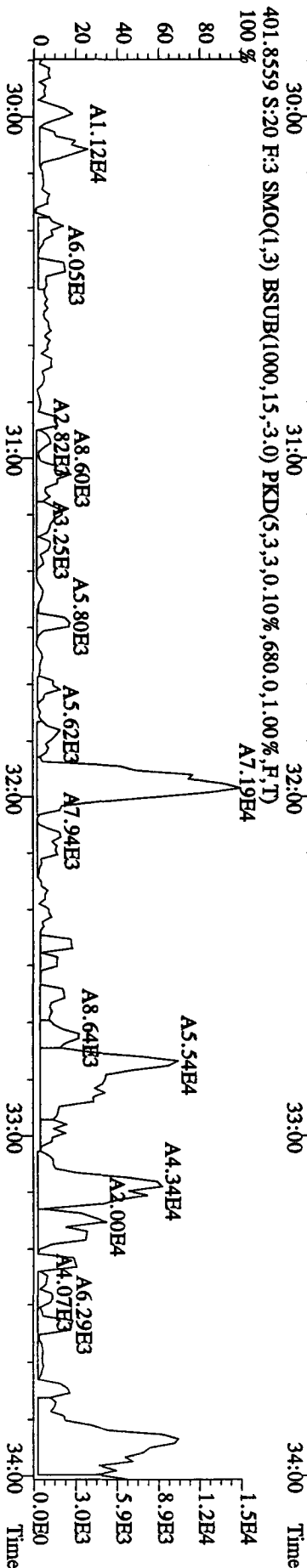
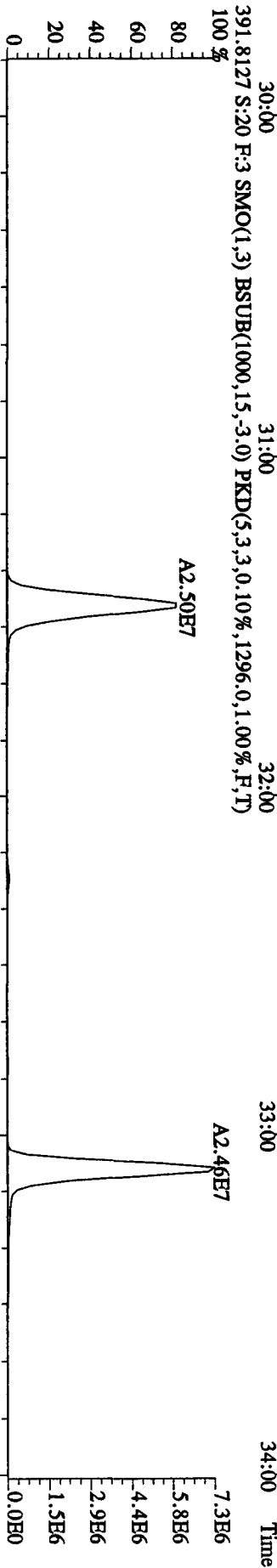
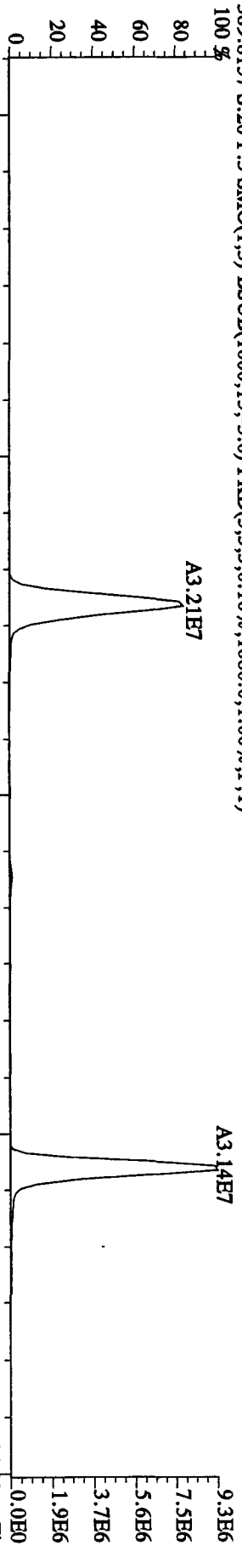
File: 21AP10B4D5 #1-604 Acq: 22-APR-2010 11:02:50 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#20 Text: CP0421B :DB-5 CPSM 3732-05 Exp: DIOXINRES8290A  
 357.8516 S:20 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1572.0,1.00%,F,T)  
 355.8546 S:20 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2456.0,1.00%,F,T)



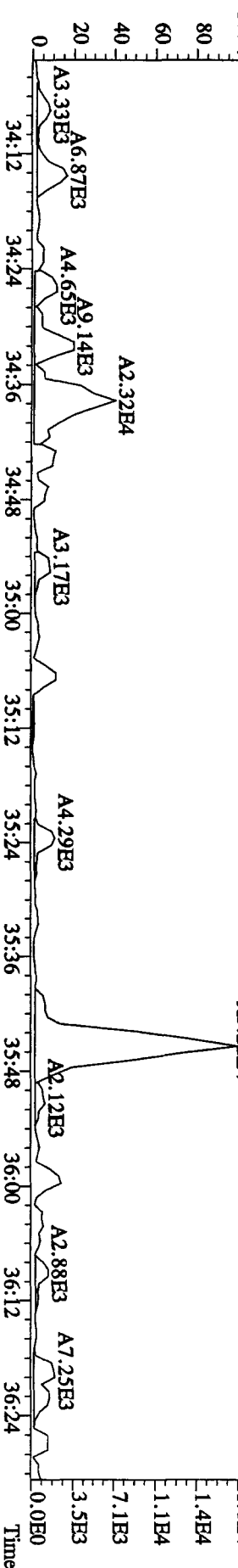
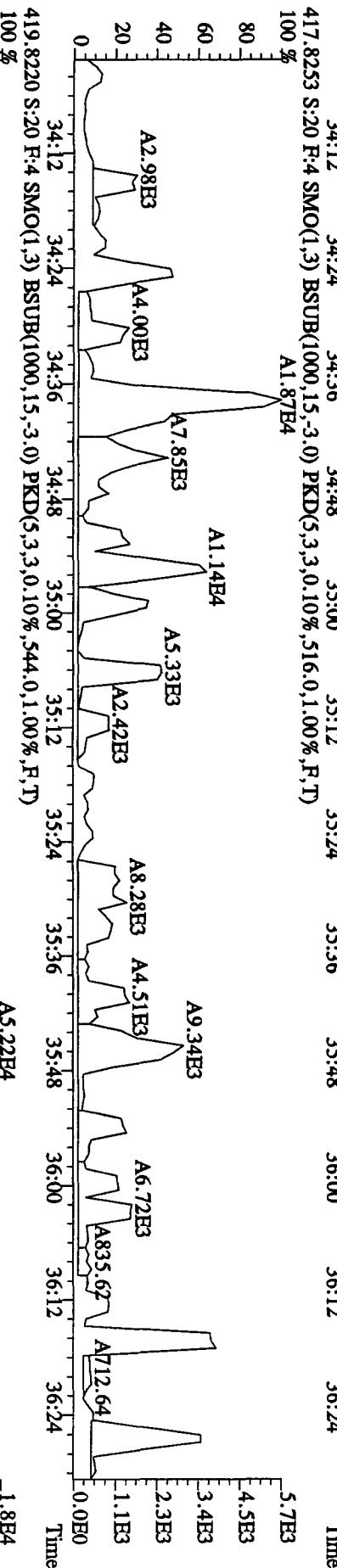
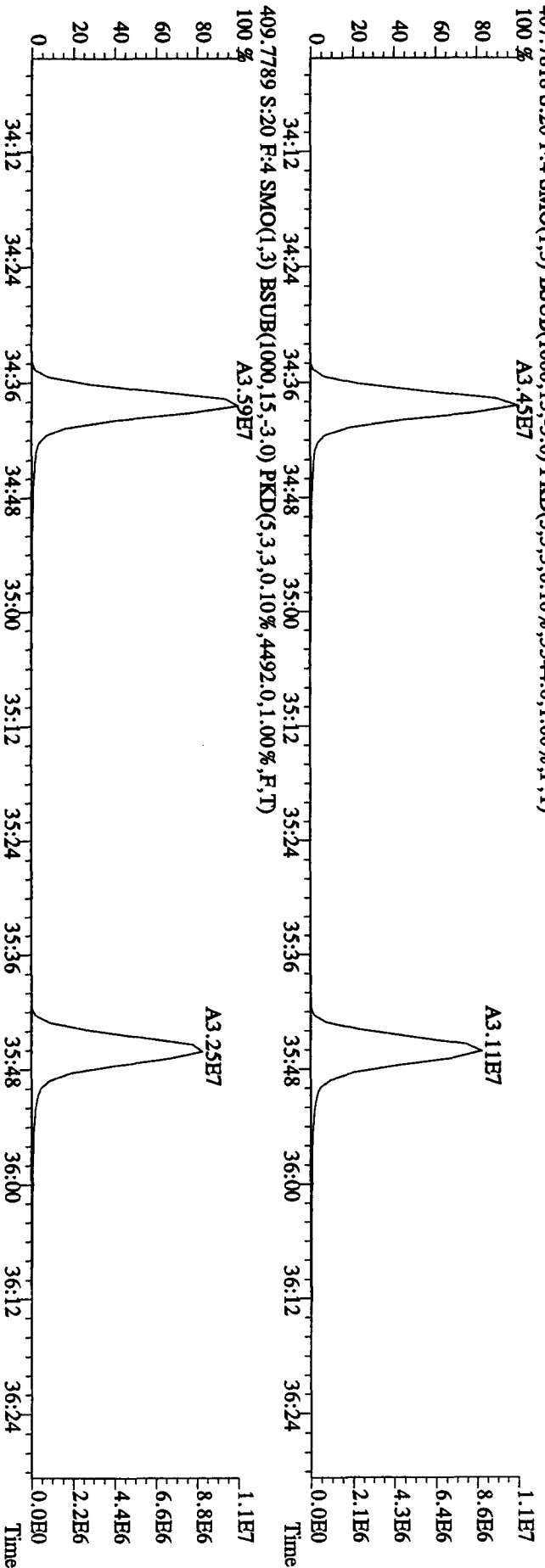
File: 21AP10B4D5 #1-317 Acq: 22-APR-2010 11:02:50 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample# 20 Text: CP0421B :DB-5 CPSM 3732-05 Exp: DIOXINRES8290A  
 373.8208 S:20 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1936,0,1,00%,F,T) 100%



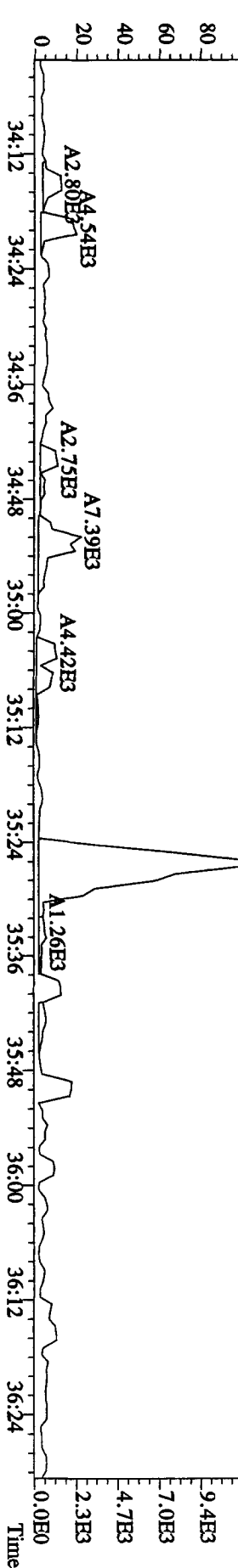
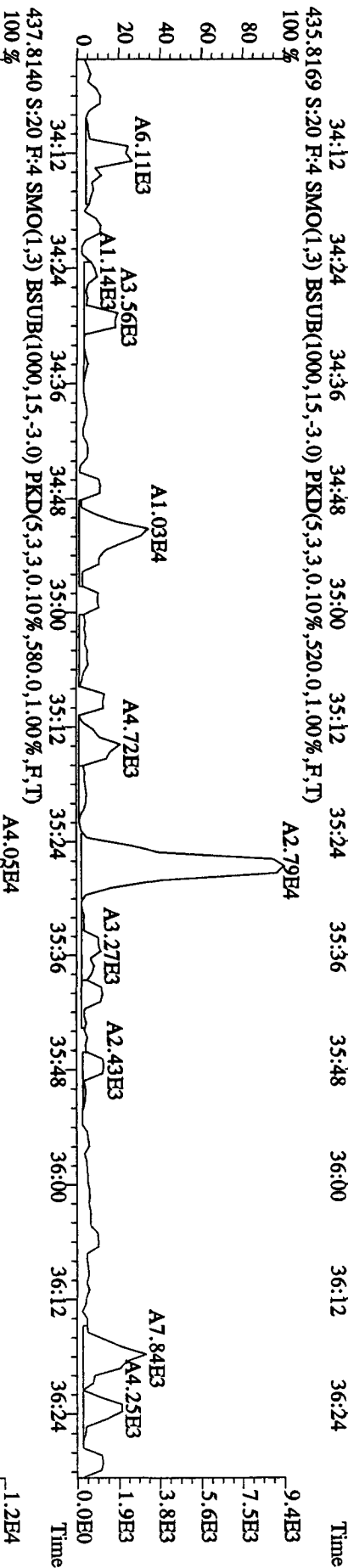
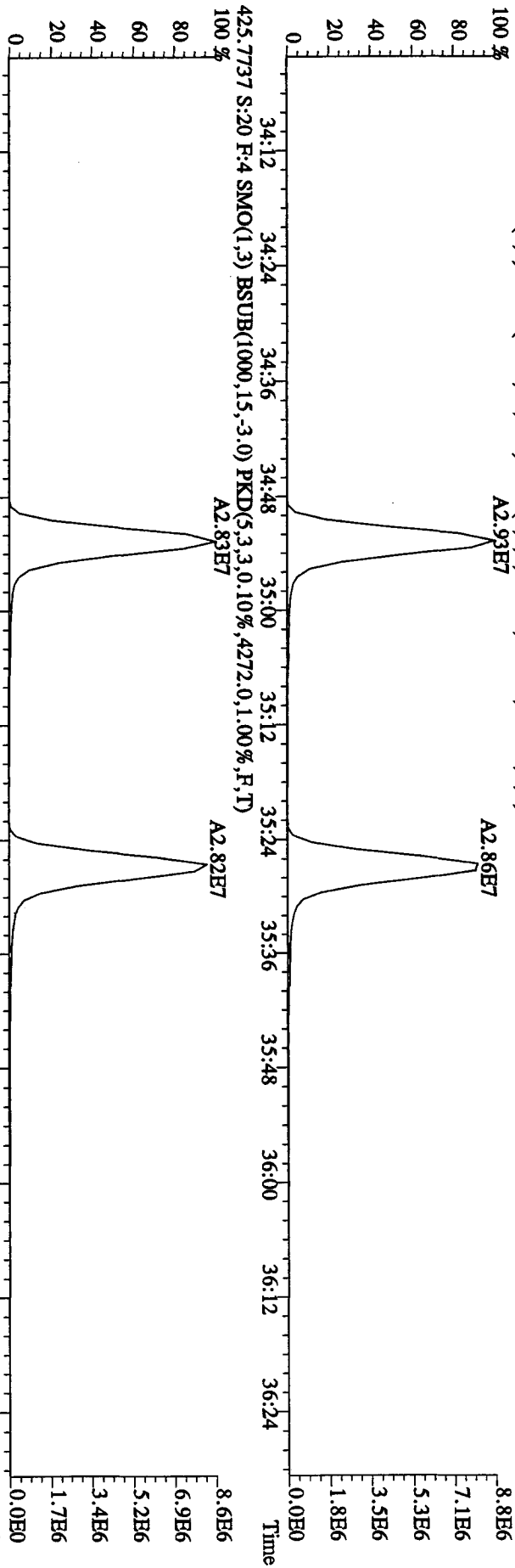
File:21API084D5 #1-317 Acq:22-APR-2010 11:02:50 GC HI + Voltage SIR Autospec-Ultimate  
 Sample#20 Text:CP0421B :DB-5 CP5M 3732-05 Exp:DIOXINRES8290A  
 389.8157 S:20 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1080.0,1.00%,F,T)



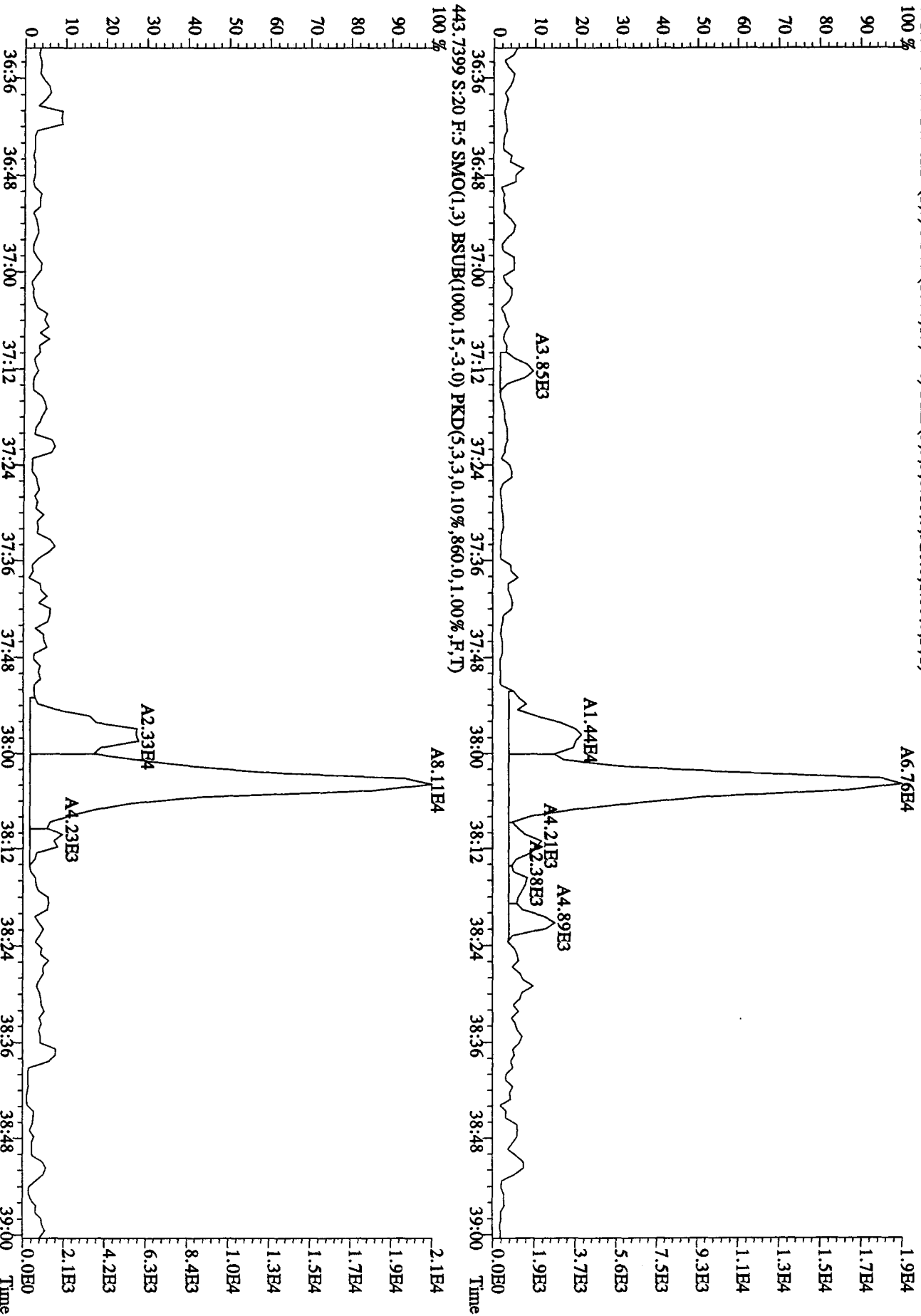
File:21AP10B4D5 #1-198 Acq:22-APR-2010 11:02:50 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#20 Text:CP0421B :DB-5 CP5M 3732-05 Exp:DIOXINRES8290A  
 407.7818 S:20 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3544.0,1.00%,F,T)



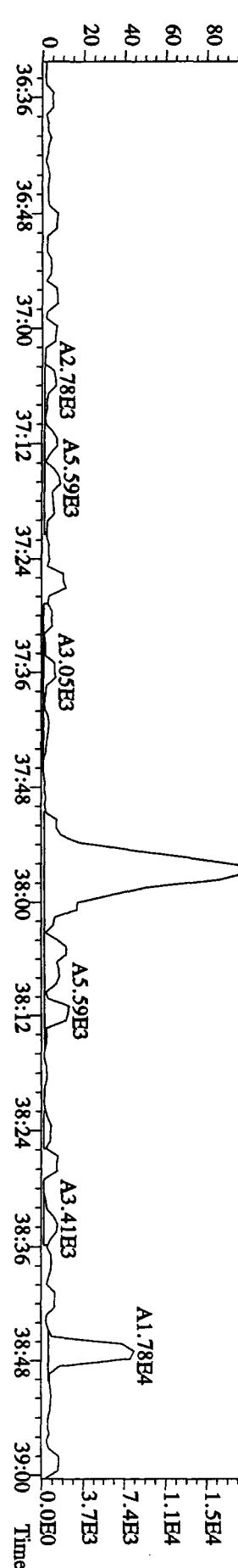
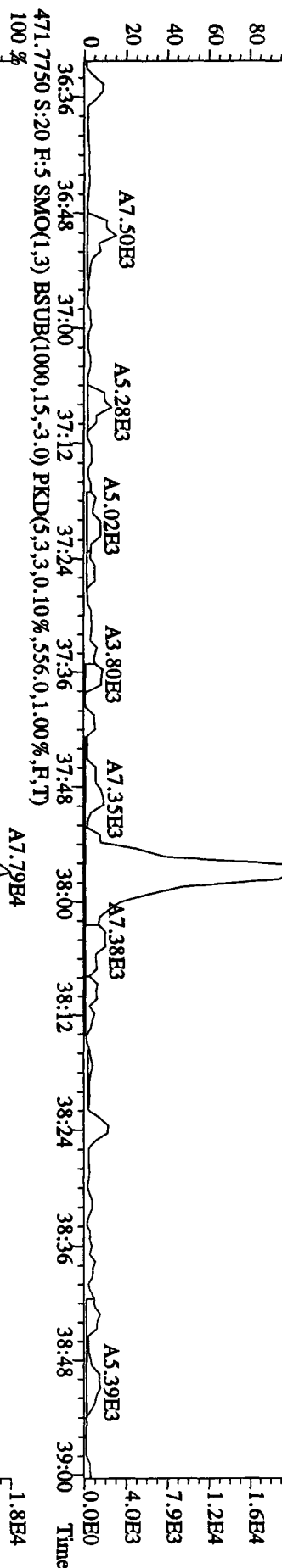
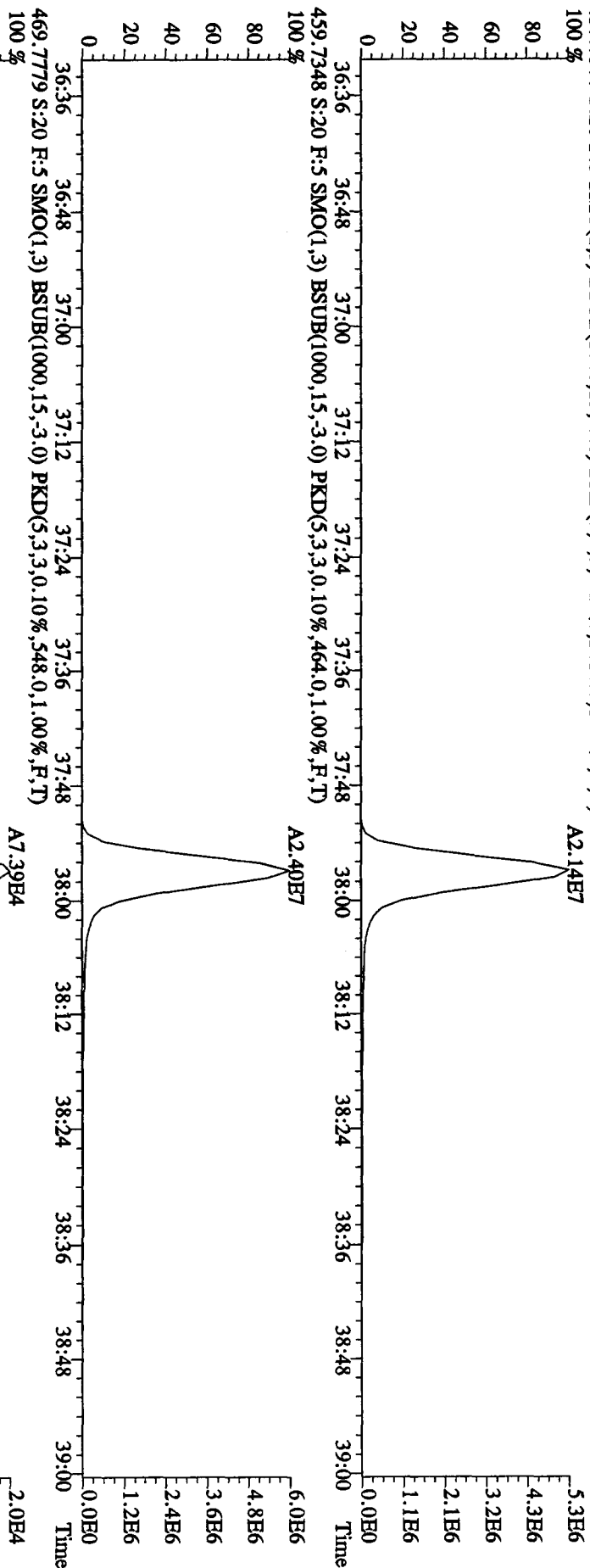
File: 21AP10B4D5 #1-198 Acq: 22-APR-2010 11:02:50 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample# 20 Text: CP0421B : DB-5 CPSM 3732-05 Exp: DIOXINRBS8290A  
 423.7766 S:20 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4992.0,1.00%,F,T)  
 100%



File: 21ADP10B4D5 #1-190 Acq: 22-APR-2010 11:02:50 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#20 Text: CP0421B :DB-5 CPSM 3732-05 Exp: DIOXINRES8290A  
 441.7428 S:20 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,920.0,1.00%,F,T)

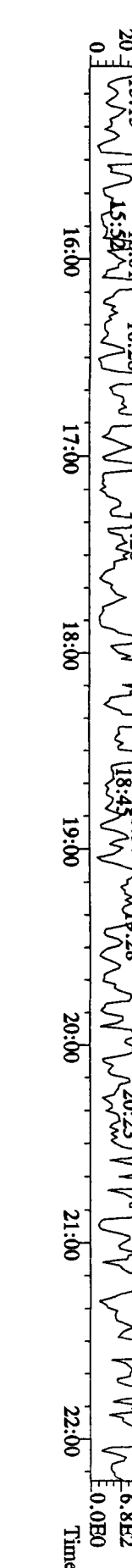
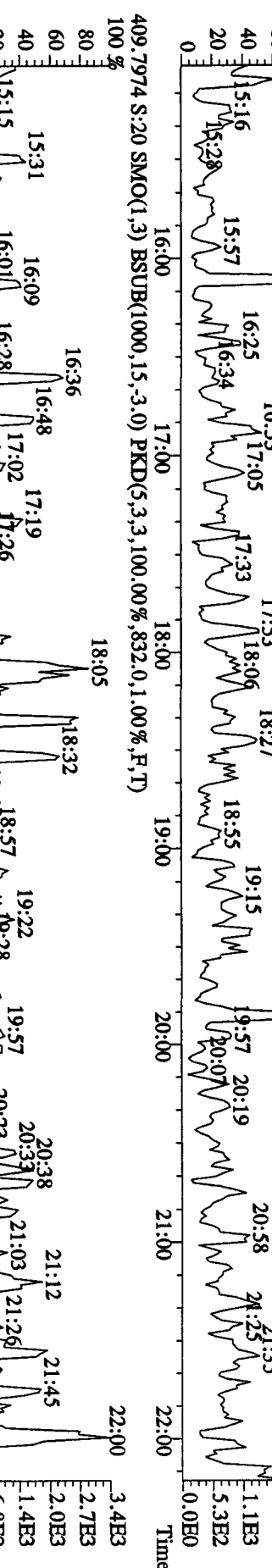
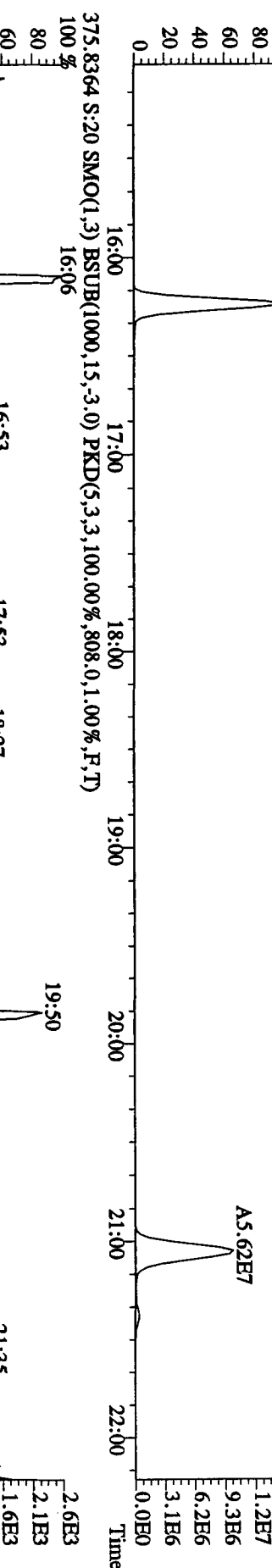
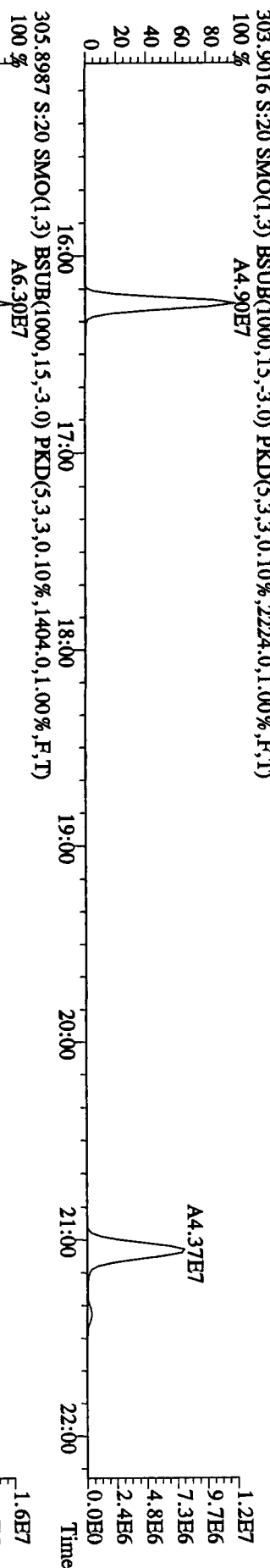
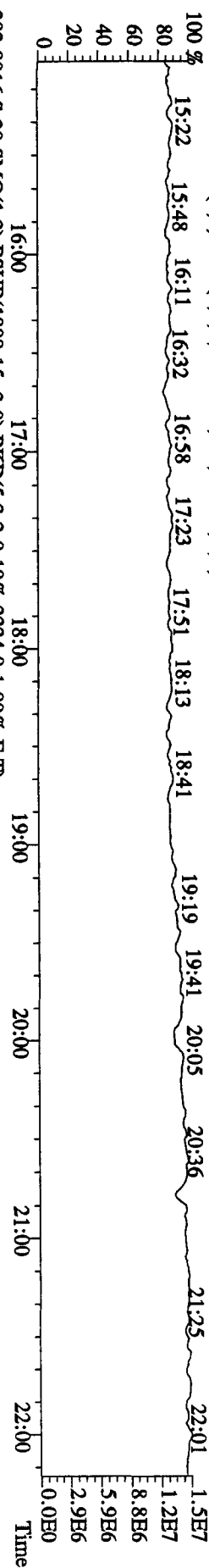


File:21ADP10B4D5 #1-190 Acq:22-APR-2010 11:02:50 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#20 Text:CP0421B :DB-5 CPSM 3732.05 Exp:DIOXINRES8290A  
 457.7377 S:20 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2416.0,1.00%,F,T) 100 %



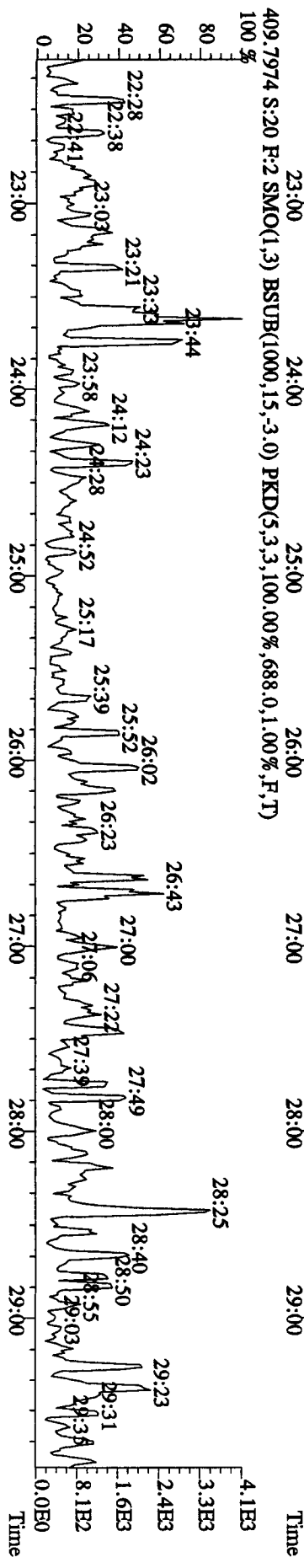
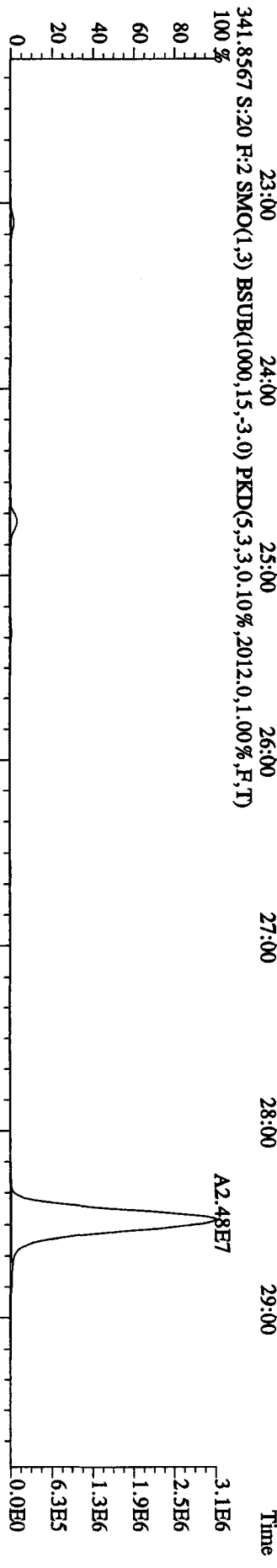
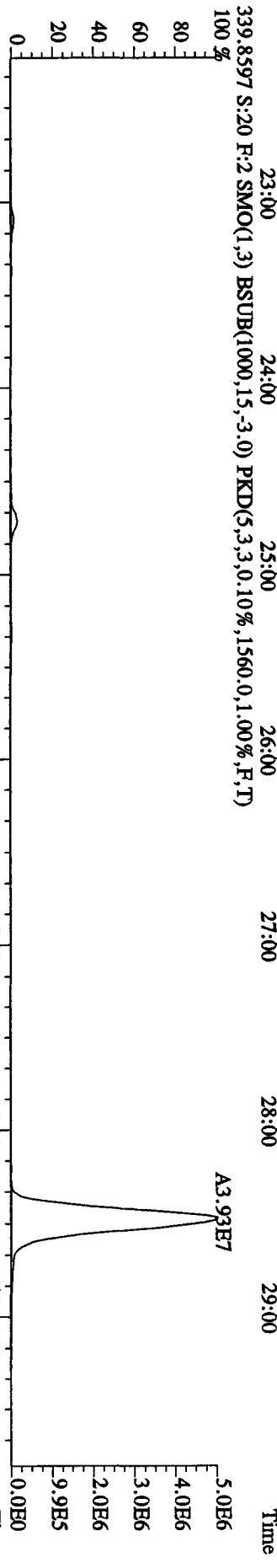
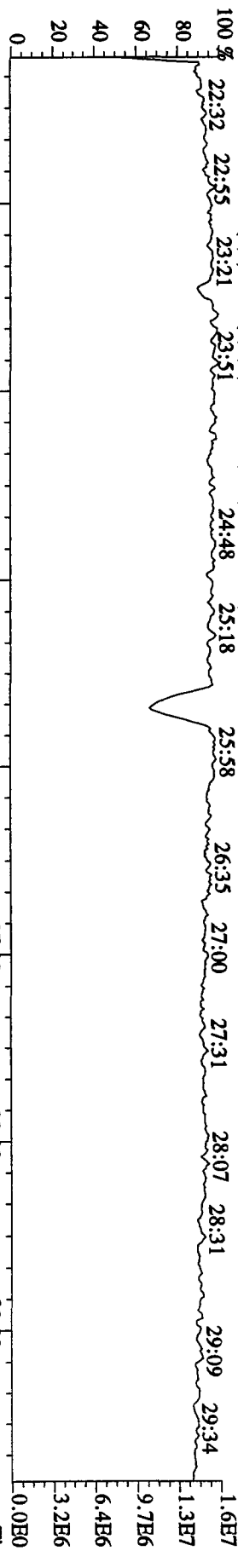


File: 21AP10BAD5 #1-434 Acq: 22-APR-2010 11:02:50 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample# 20 Text: CP0421B :DB-5 CPSM 3732-05 Exp: DIOXINRES8290A  
 354.9792 S:20 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

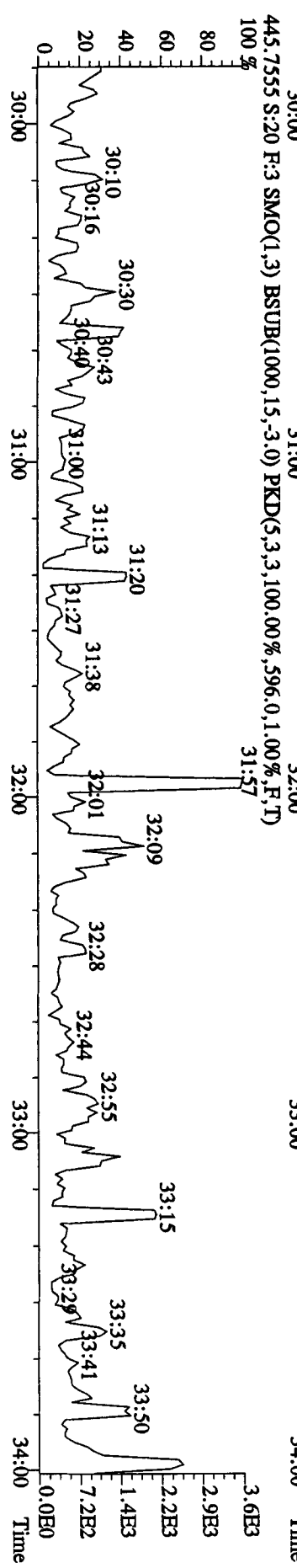
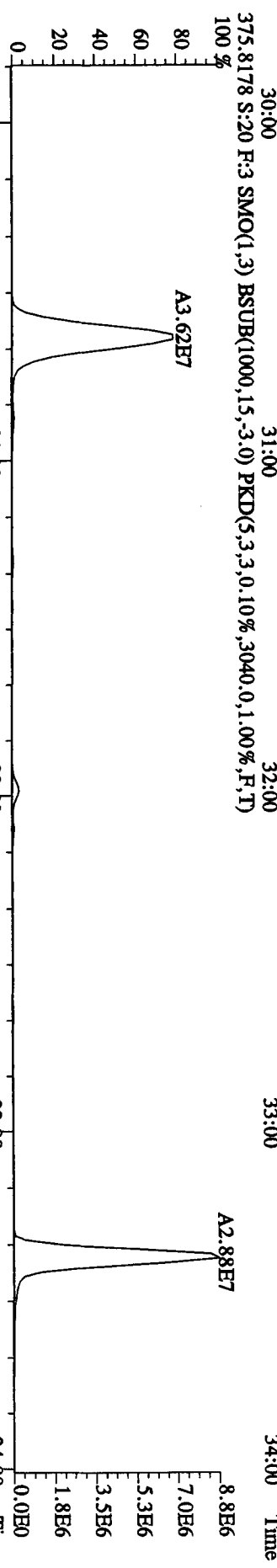
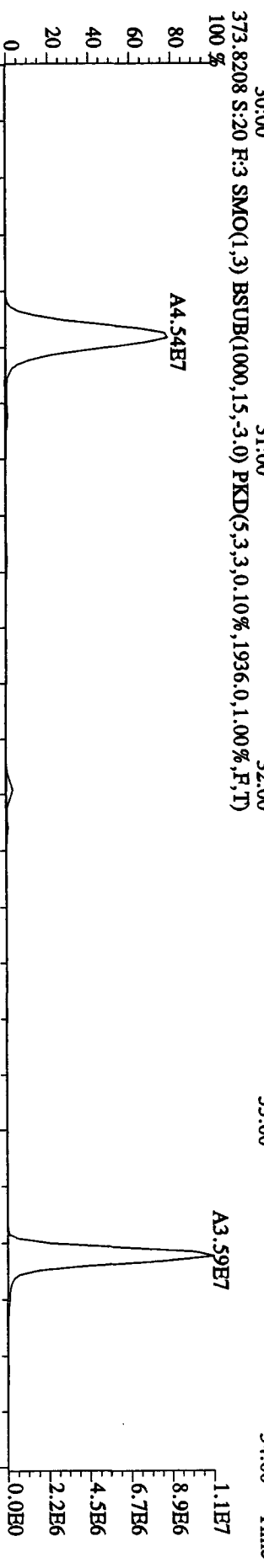
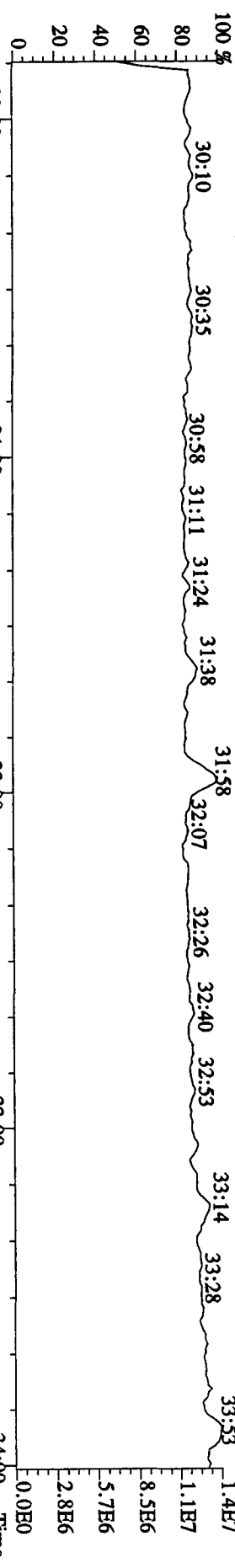


File:21AP10B4D5 #1-604 Acq:22-APR-2010 11:02:50 GC EI+ Voltage SIR Autospec-Ultimate

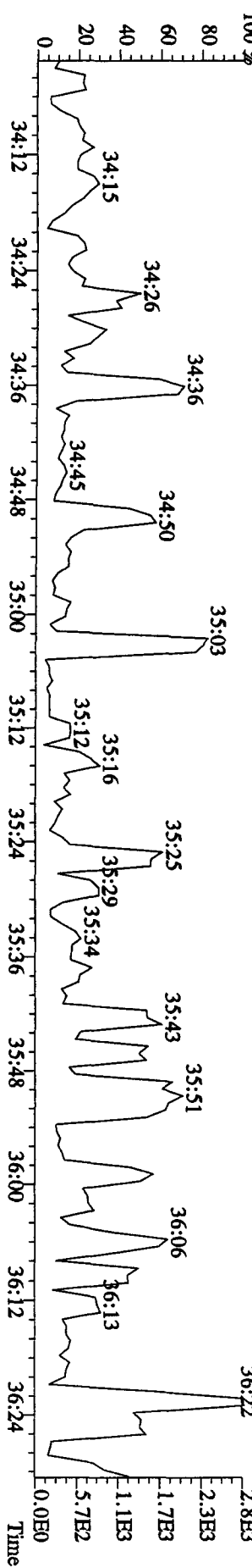
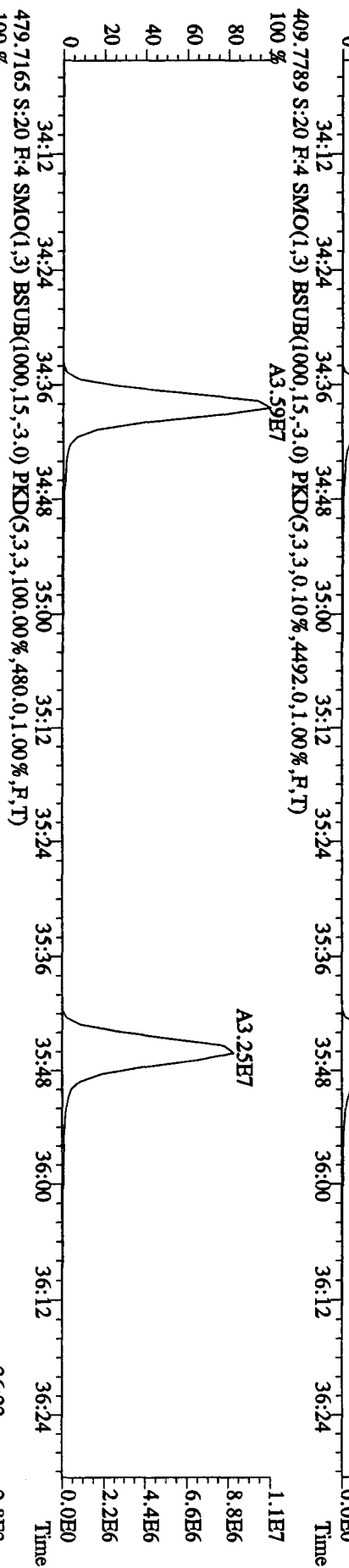
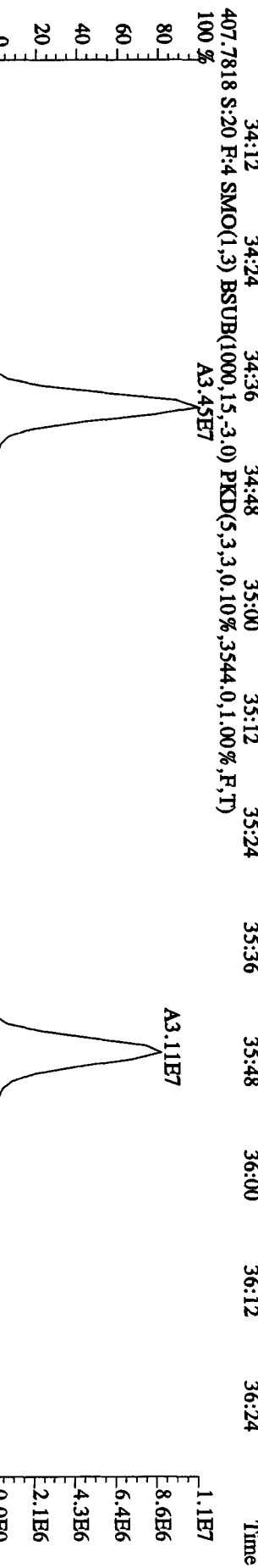
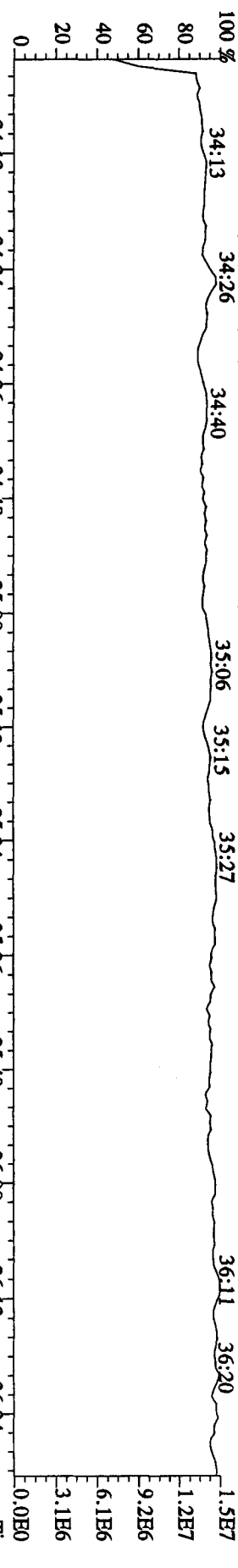
Sample#20 Text:CP0421B :DB-5 CPSM 3732-05 Exp:DIOXINRES8290A



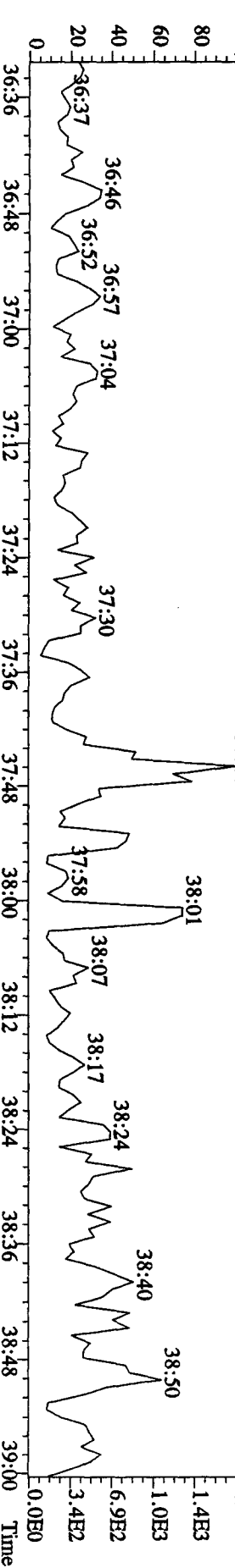
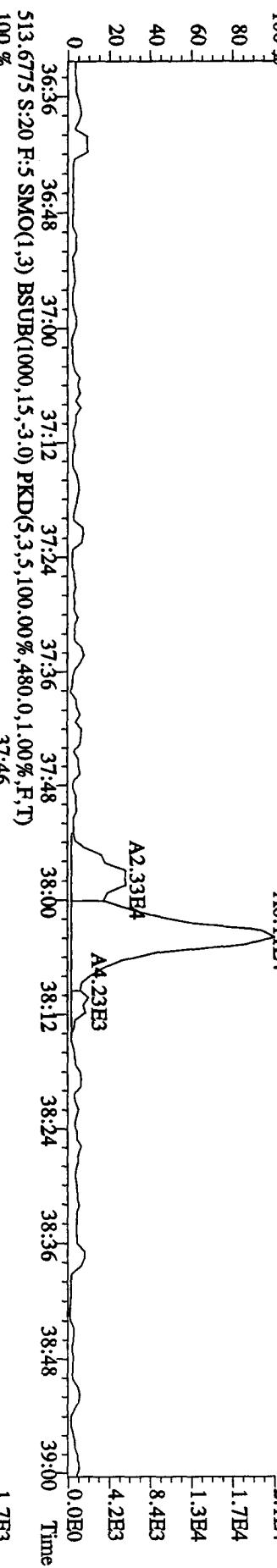
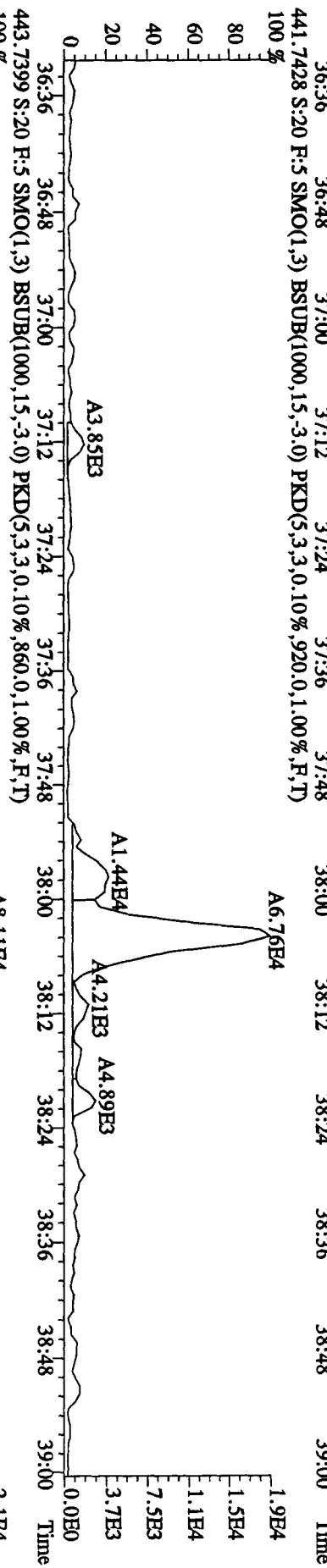
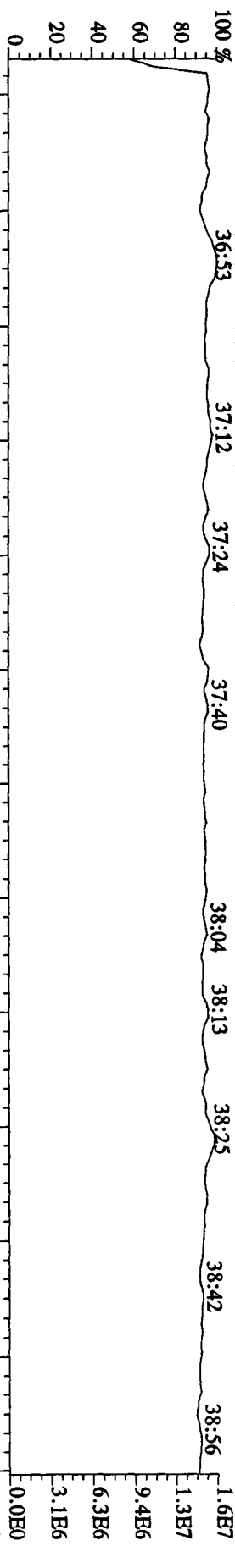
File:21AP10B4D5 #1-317 Acq:22-APR-2010 11:02:50 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#20 Text:CP0421B :DB-5 CP5M 3732-05 Exp:DIOXINRES8290A  
 430.9728 S:20 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



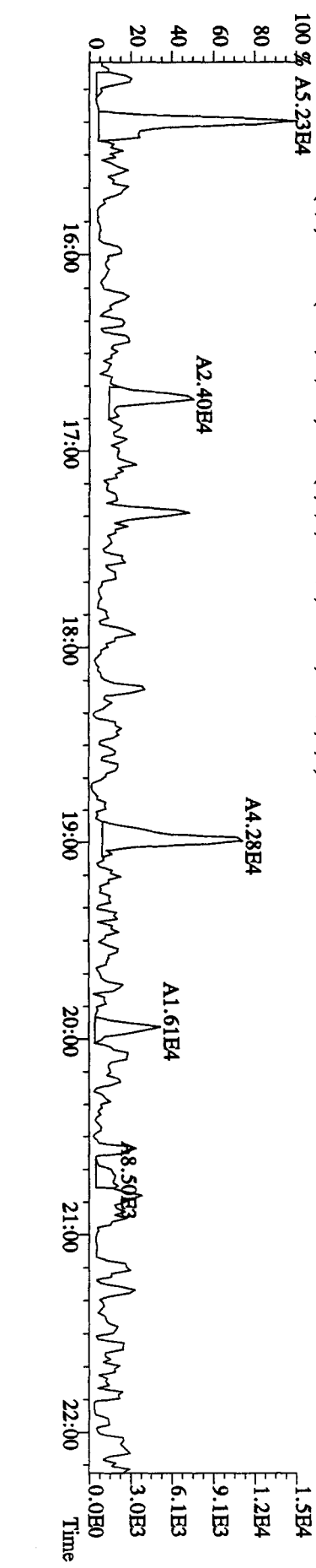
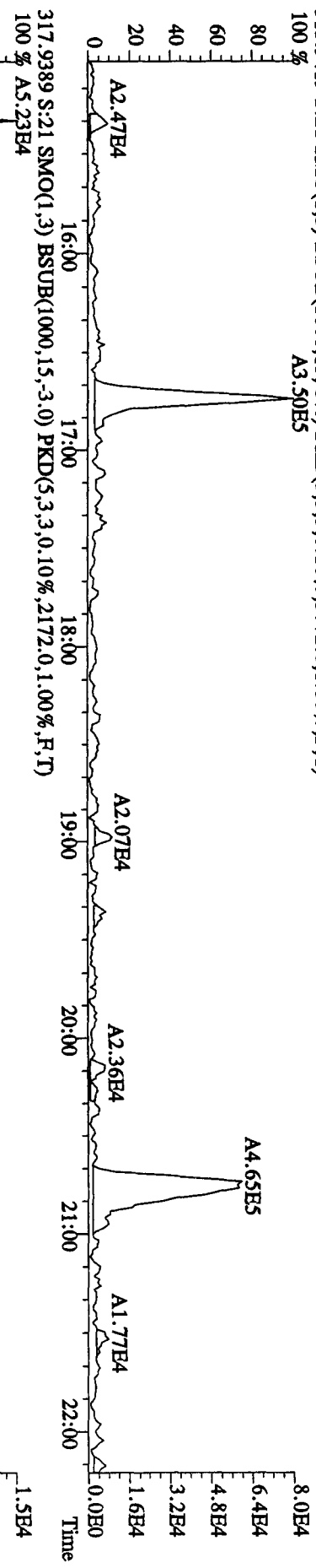
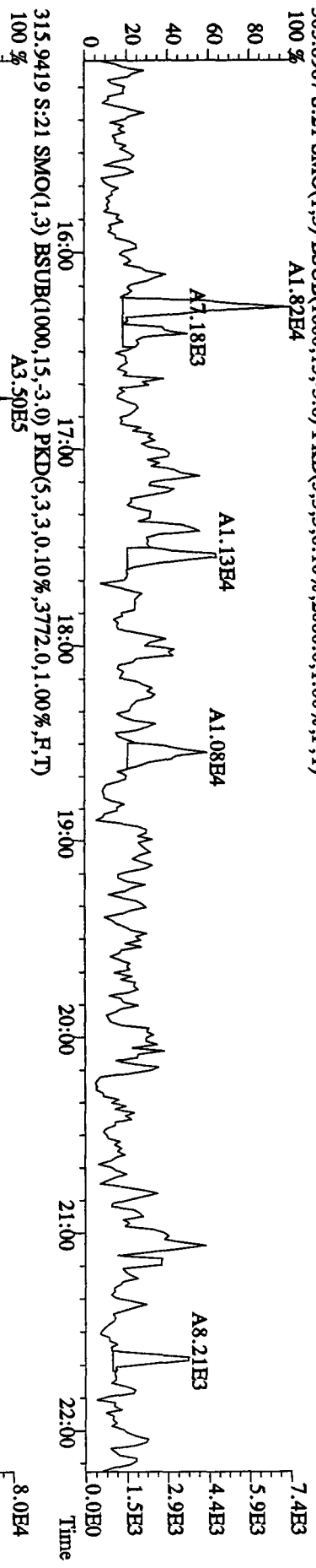
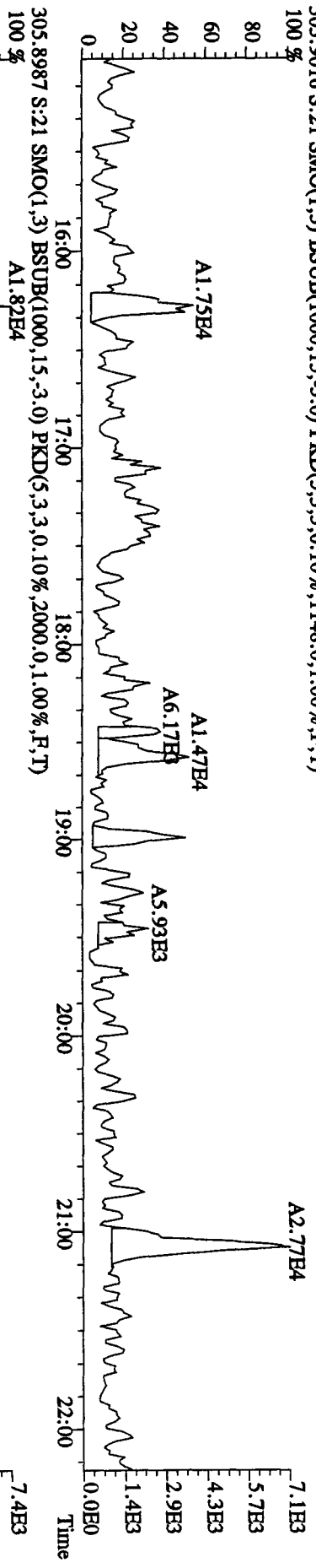
File:21AP10B4D5 #1-198 Acq:22-APR-2010 11:02:50 GC EI+ Voltage SIR Autospec-Ultimat  
 Sample#20 Text:CP0421B :DB-5 CPSM 3732-05 Exp:DIOXINRES8290A  
 430.9728 S:20 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



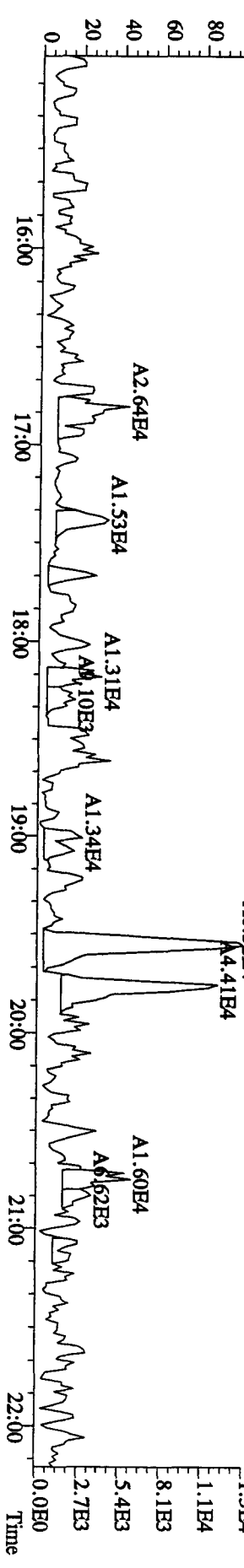
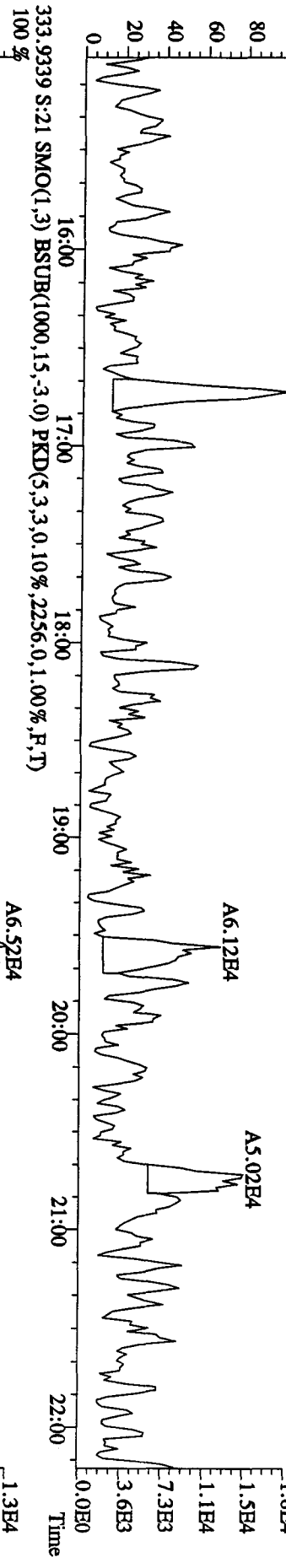
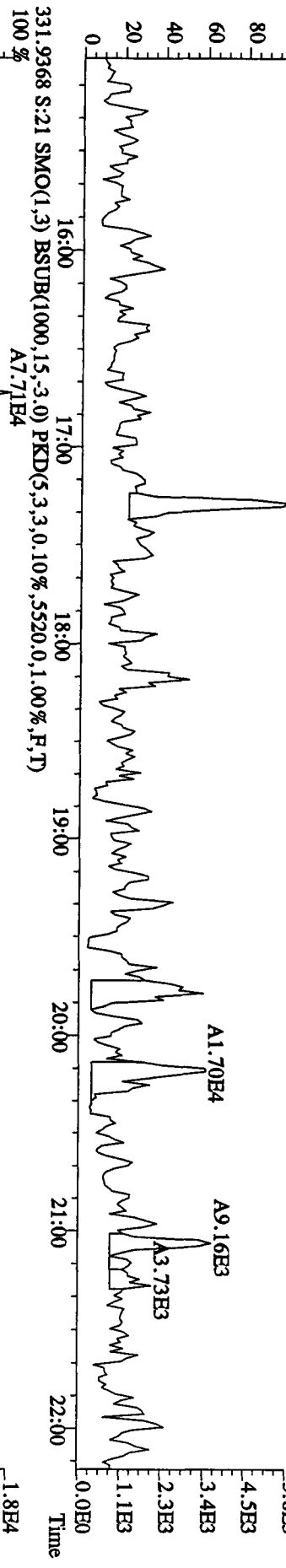
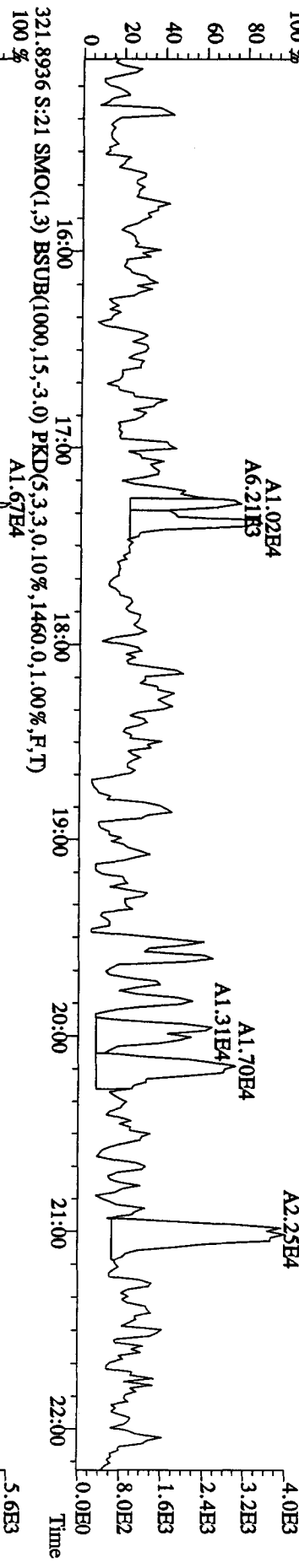
File:21API0B4D5 #1-190 Acq:22-APR-2010 11:02:50 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#20 Text:CP0421B :DB-5 CP5M 3732-05 Exp:DIOXINRES8290A  
 442.9728 S:20 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



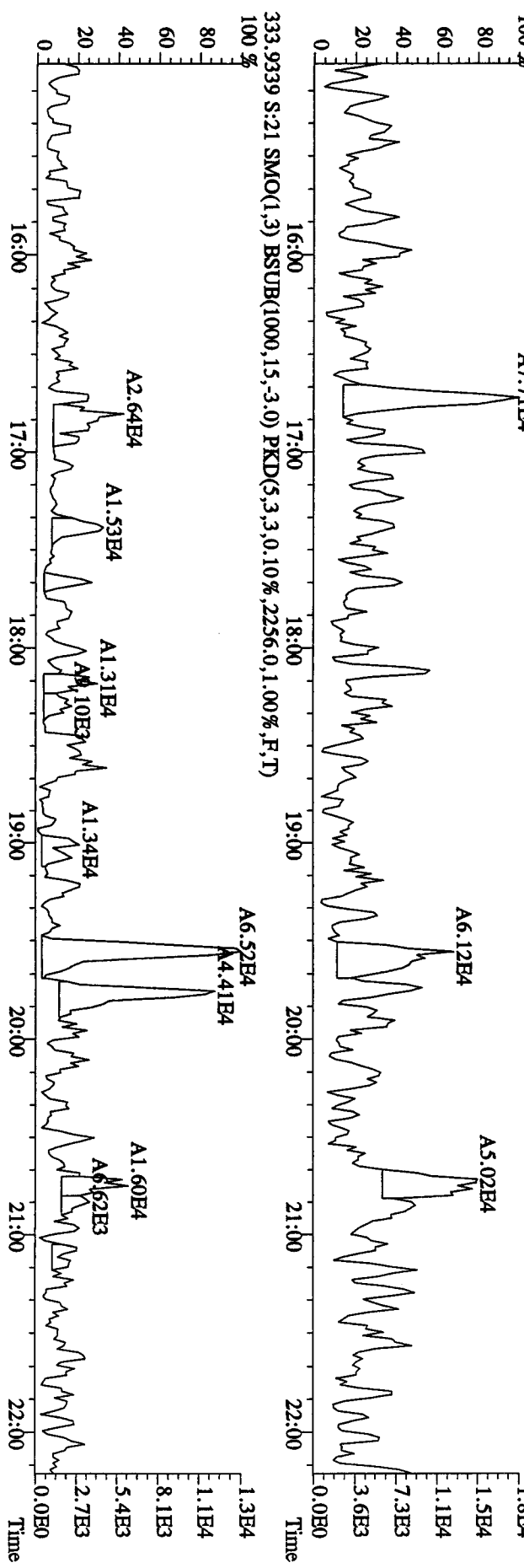
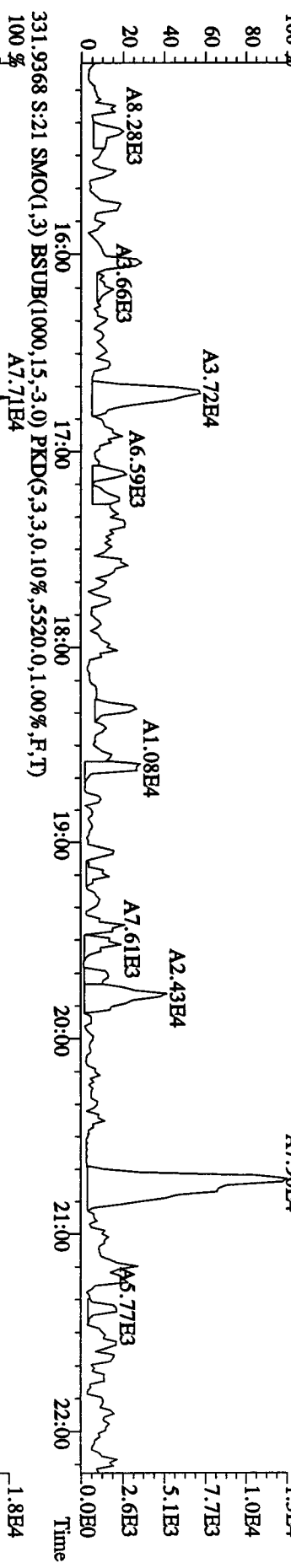
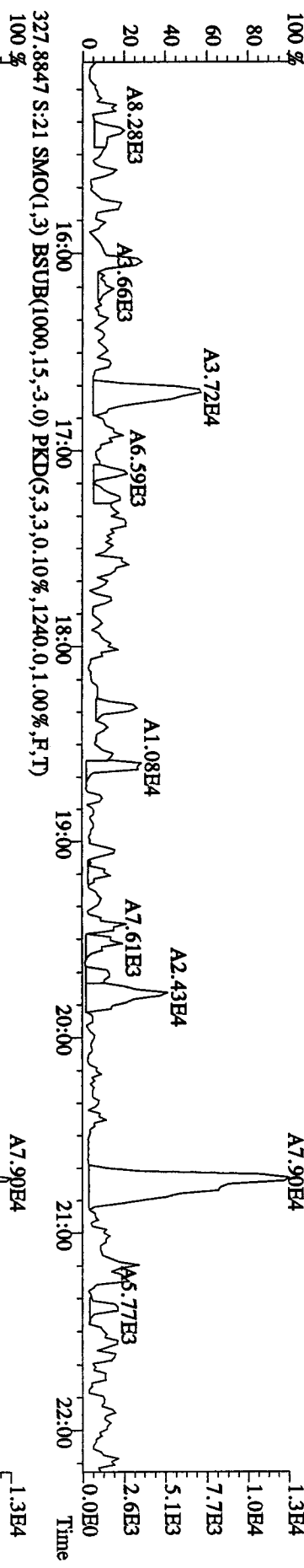
File:21AP10B4D5 #1-434 Acq:22-APR-2010 11:46:52 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#21 Text:SB0421C :Solvent Blank C-14 Exp:DIOXINRES8290A  
 303.9016 S:21 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1148.0,1.00%,F,T) 100 %



File:21API0B4D5 #1-434 Acq:22-APR-2010 11:46:52 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#21 Text:SB0421C :Solvent Blank C-14 Exp:DIOXINRES8290A  
 319.8965 S:21 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1204,0,1.00%,F,T)

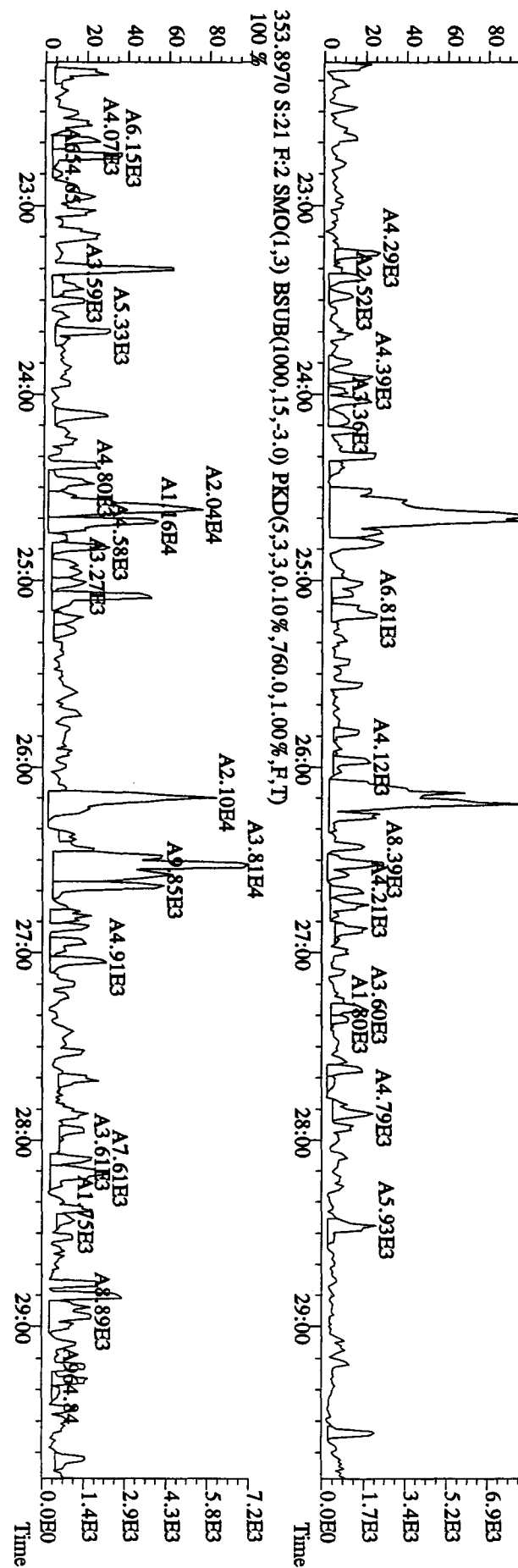
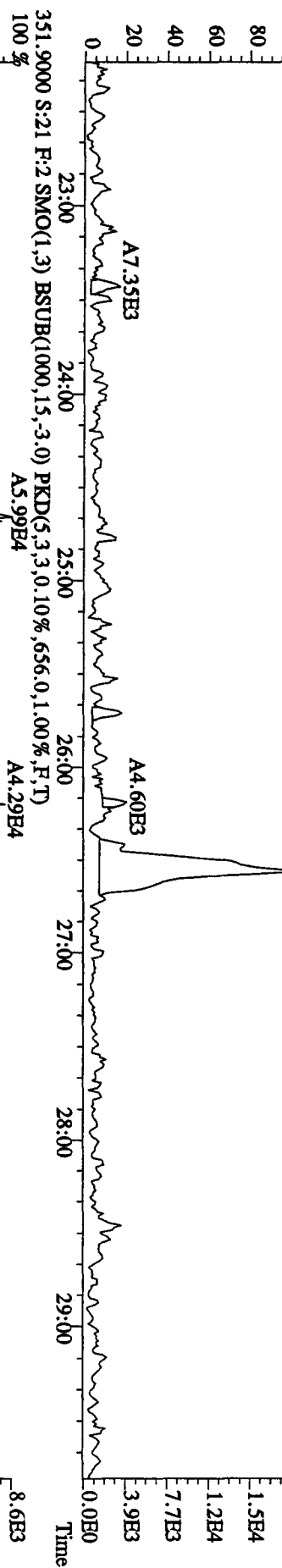
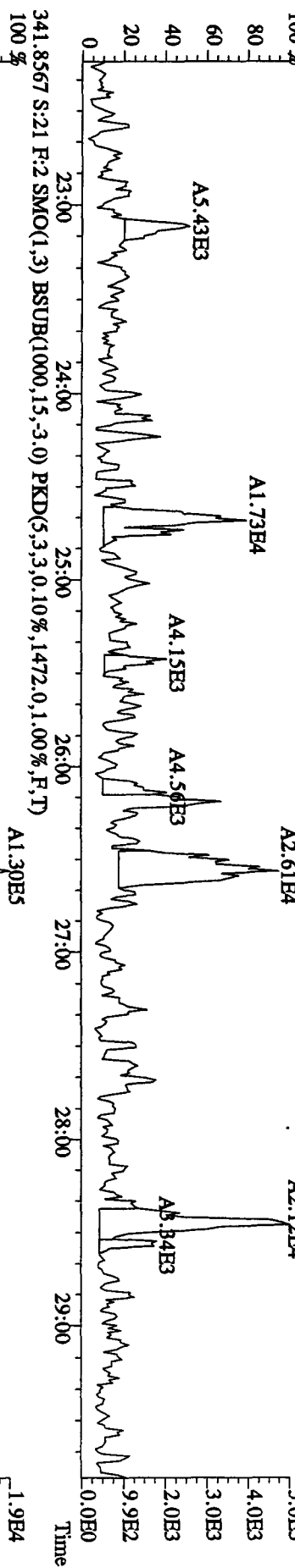


File:21AP10B4D5 #1-434 Acq:22-APR-2010 11:46:52 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#21 Text:SB0421C :Solvent Blank C-14 Exp:DIOXINRES8290A  
 327.8847 S:21 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1240,0,1,00%,F,T)

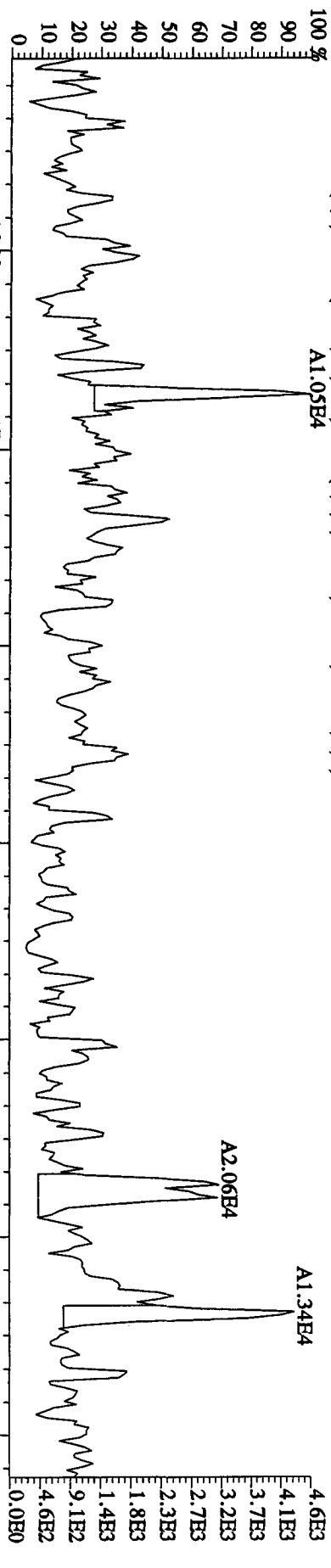




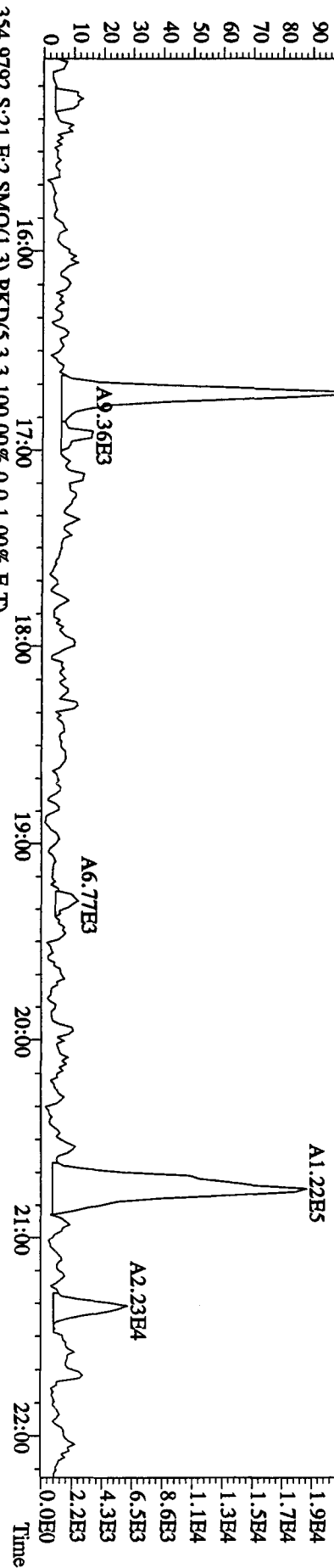
File:21AD10B4D5 #1-604 Acq:22-APR-2010 11:46:52 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#21 Text:SB0421C :Solvent Blank C-14 Exp:DIOXINRESS8290A  
 339.8597 S:21 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,928.0,1.00%,F,T)



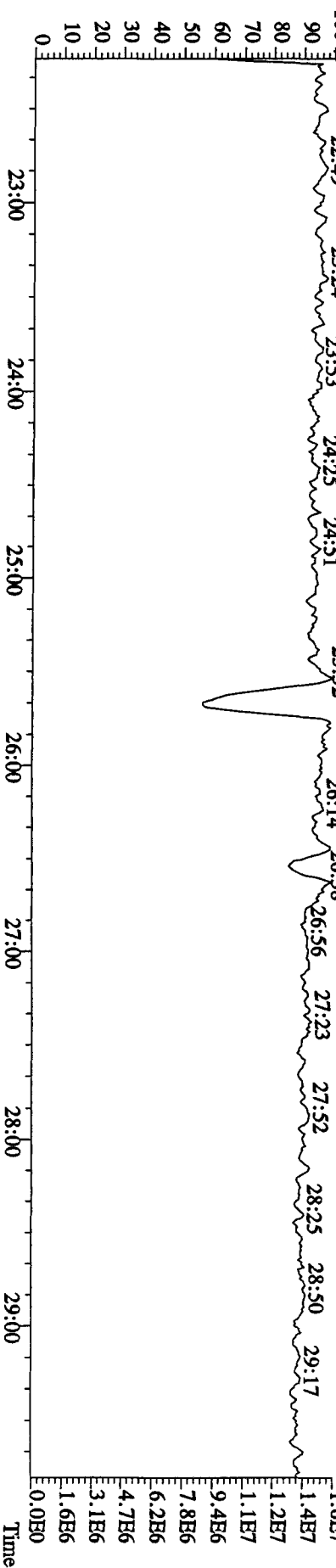
File:21AP10B4D5 #1-434 Acq:22-APR-2010 11:46:52 GC HI+ Voltage SIR Autospec-UltimaB  
 Sample#21 Text:SB0421C :Solvent Blank C-14 Exp:DIOXINRES8290A  
 339.8597 S:21 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1320.0,1.00%,F,T)  
 100% A1.05E4



341.8567 S:21 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1612.0,1.00%,F,T)  
 100% A9.32E4



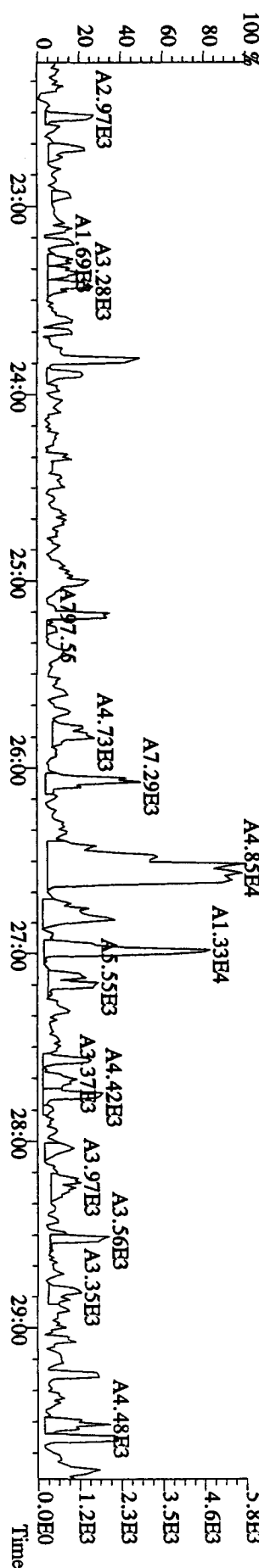
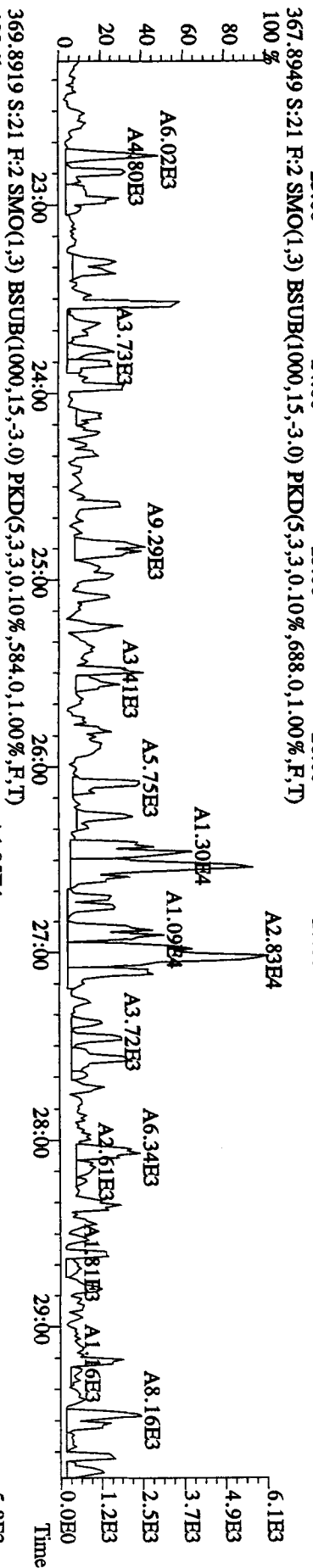
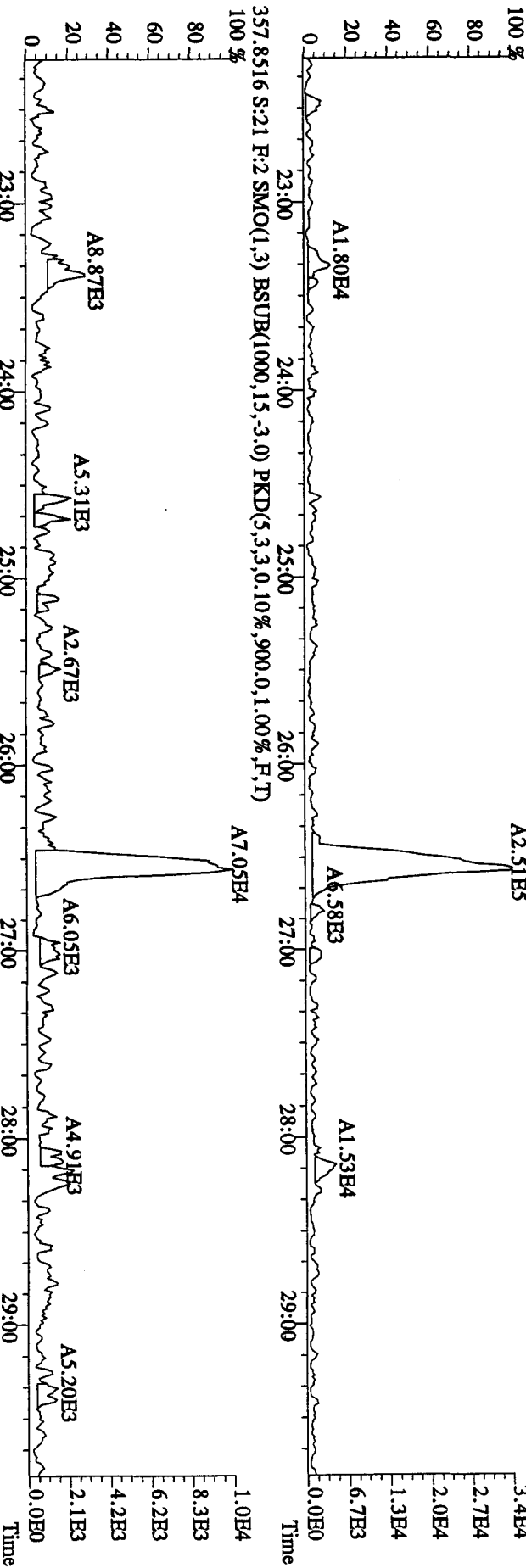
354.9792 S:21 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100%



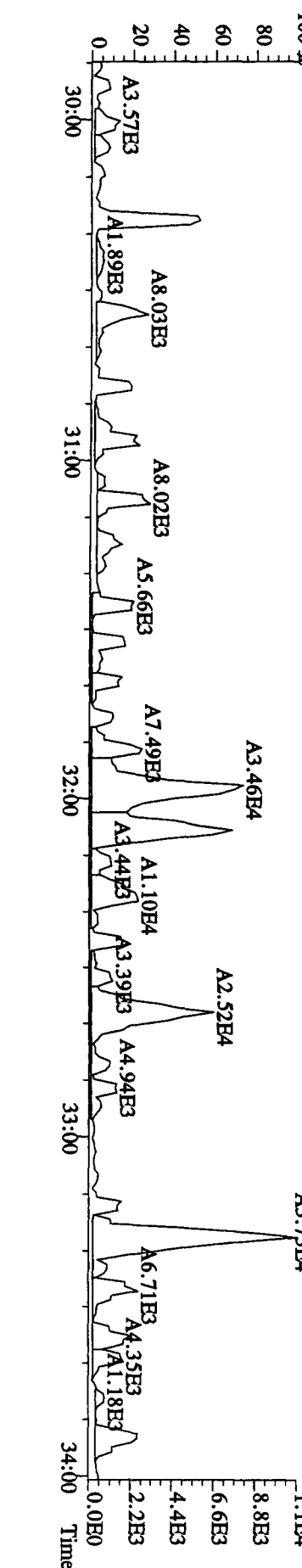
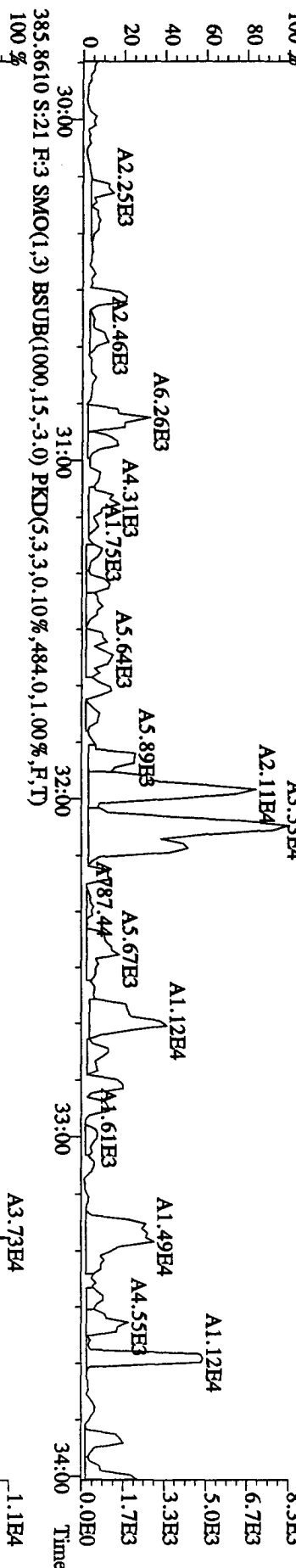
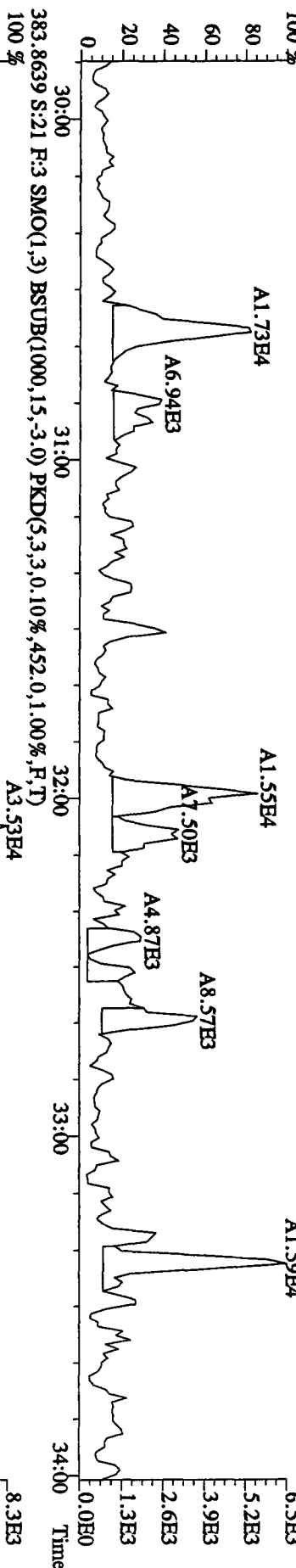
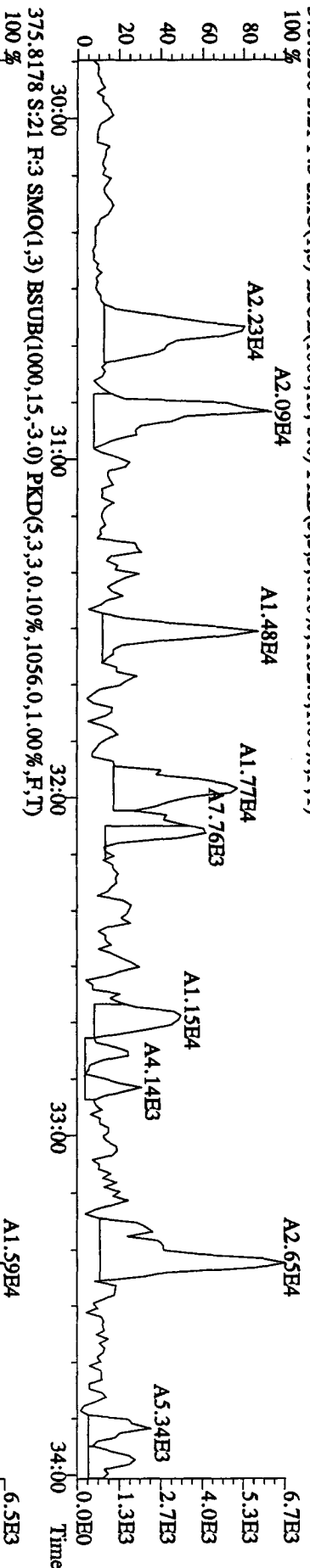
File:21AP10B4D5 #1-604 Acq:22-APR-2010 11:46:52 GC EI+ Voltage SIR Autospec-UltimaB

Sample#21 Text:SB0421C :Solvent Blank C-14 Exp:DIOXINRES8290A

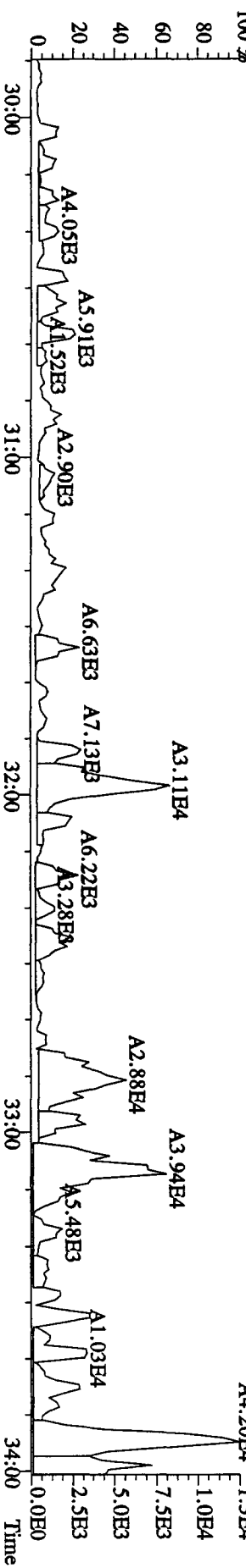
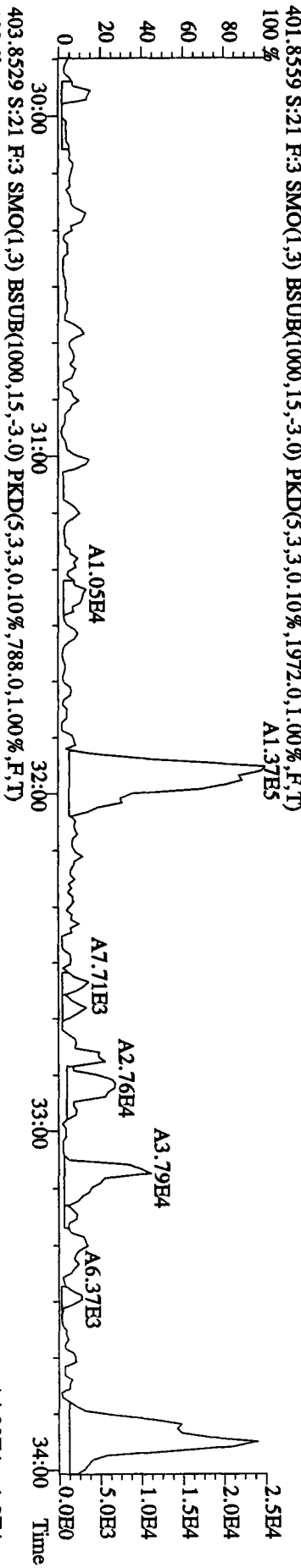
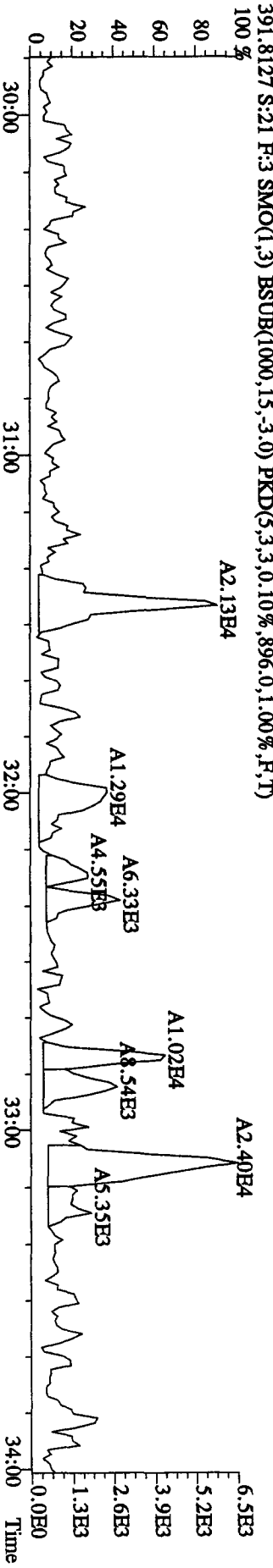
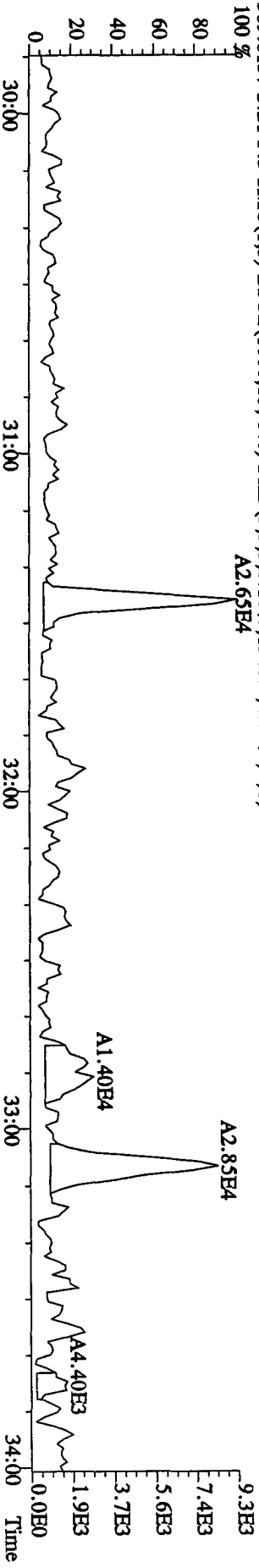
357.8516 S:21 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1300.0,1.00%,F,T)



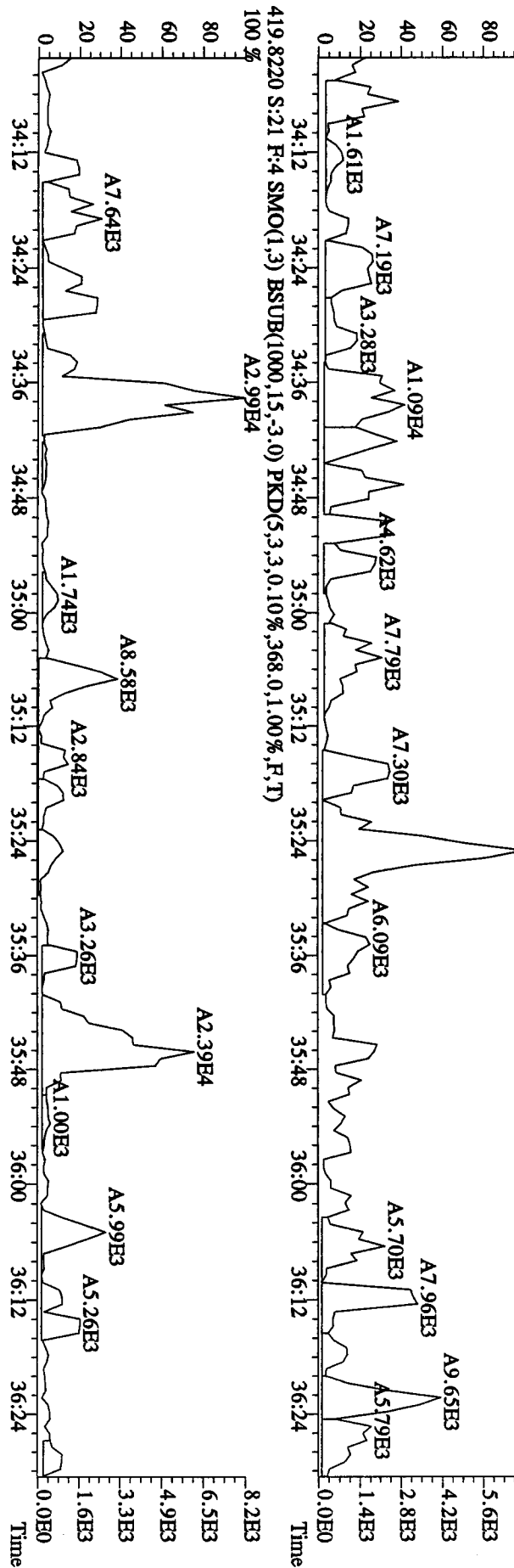
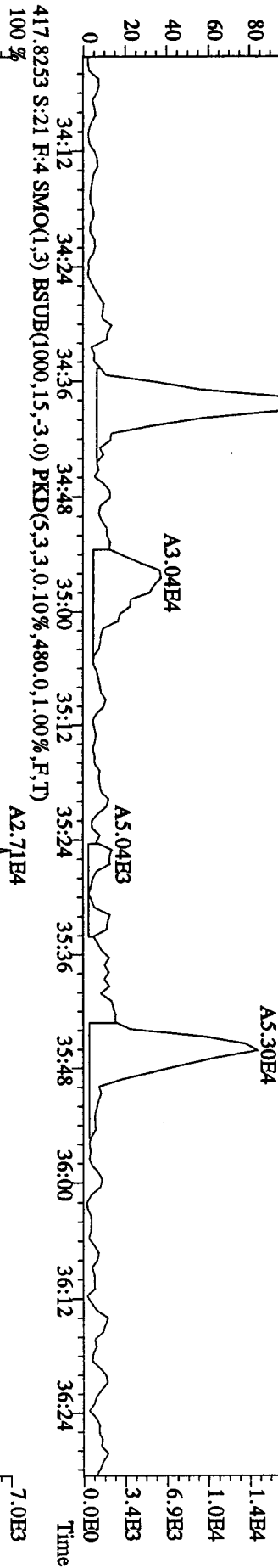
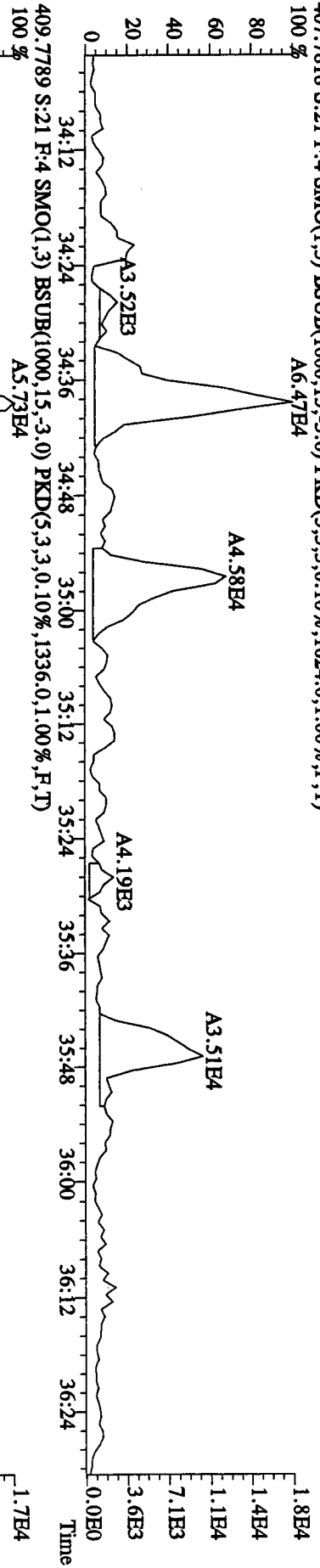
File: 21AP10B4D5 #1-317 Acq: 22-APR-2010 11:46:52 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#21 Text: SB0421C :Solvent Blank C-14 Exp: DIOXINRES8290A  
 373.8208 S:21 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1132.0,1.00%,F,T)



File:21API0B4D5 #1-317 Acq:22-APR-2010 11:46:52 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#21 Text:SB0421C :Solvent Blank C-14 Exp:DIOXINRES8290A  
 389.8157 S:21 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1348,0,1.00%,F,T)  
 A2.65E4



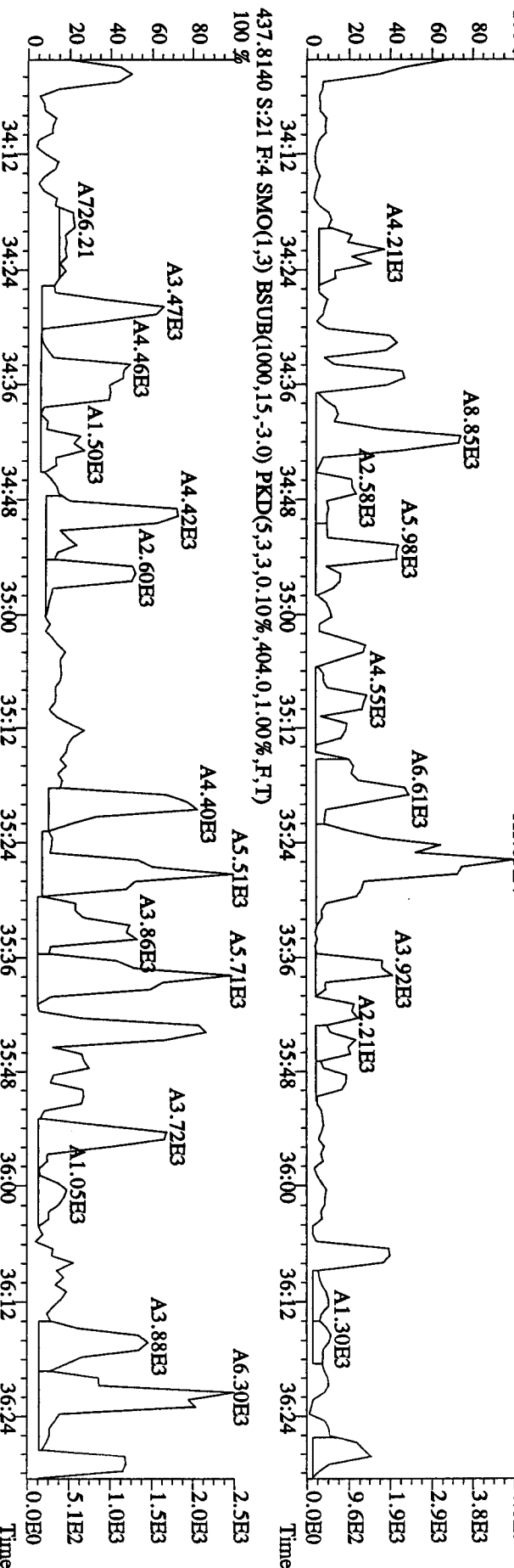
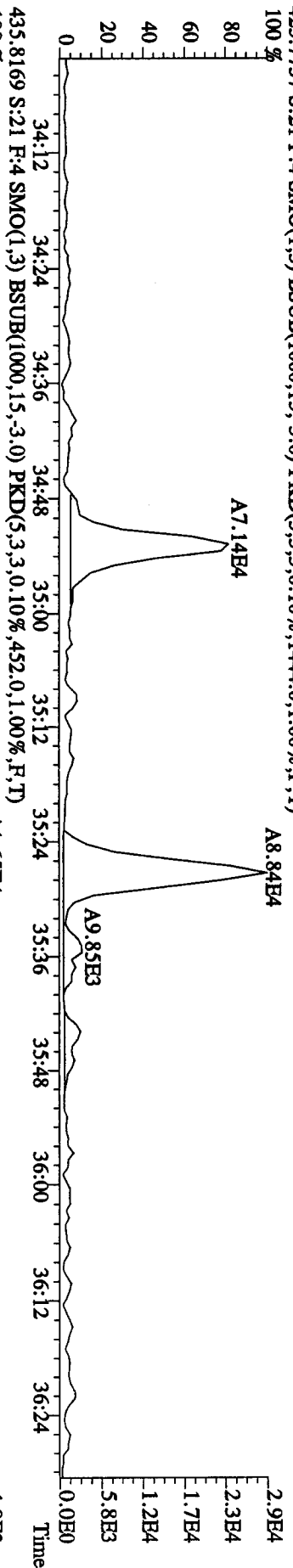
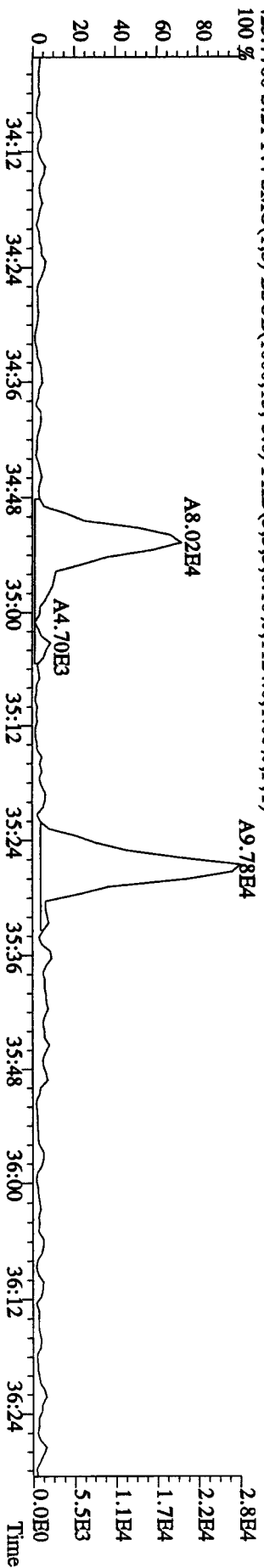
File: 21AP10B4D5 #1-198 Acq: 22-APR-2010 11:46:52 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#21 Text: SB0421C :Solvent Blank C-14 Exp: DIOXINRES8290A  
 407.7818 S:21 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1624,0,1,00%,F,T)



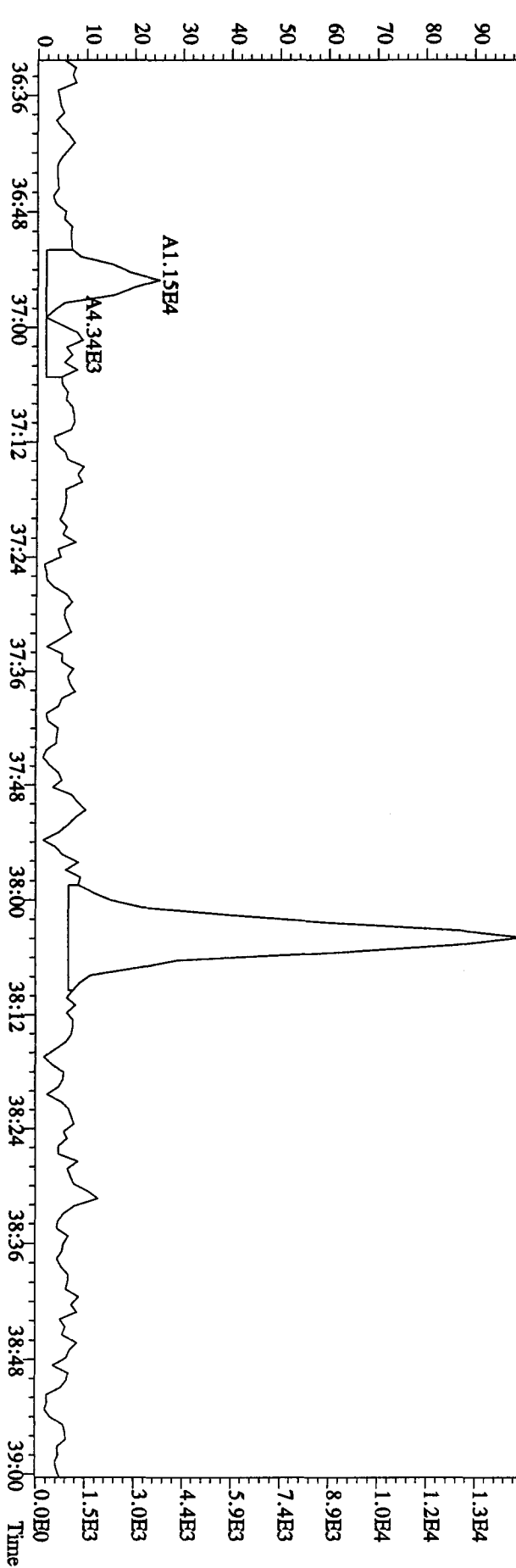
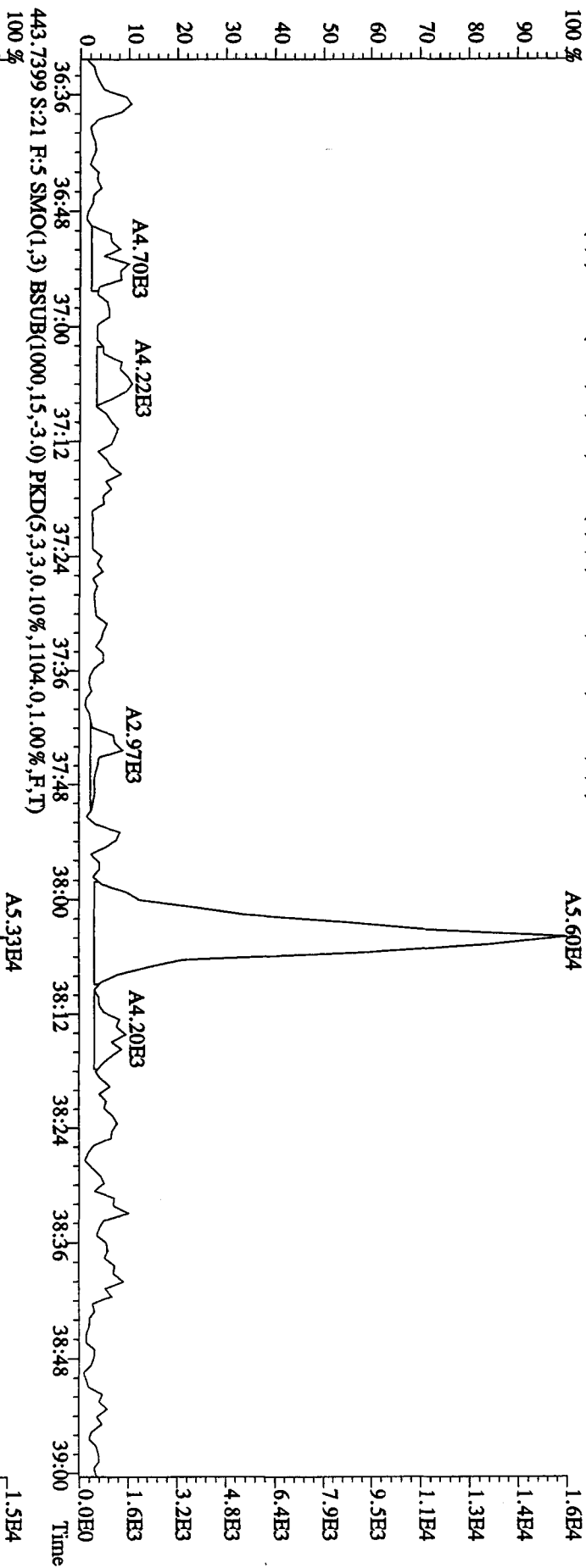
File: 21API0B4D5 #1-198 Acq: 22-APR-2010 11:46:52 GC EI+ Voltage SIR Autospec-Ultimate

Sample# 21 Text: SB0421C : Solvent Blank C-14 Exp: DIOXINRES8290A

423.7766 S: 21 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1124.0,1.00%,F,T)

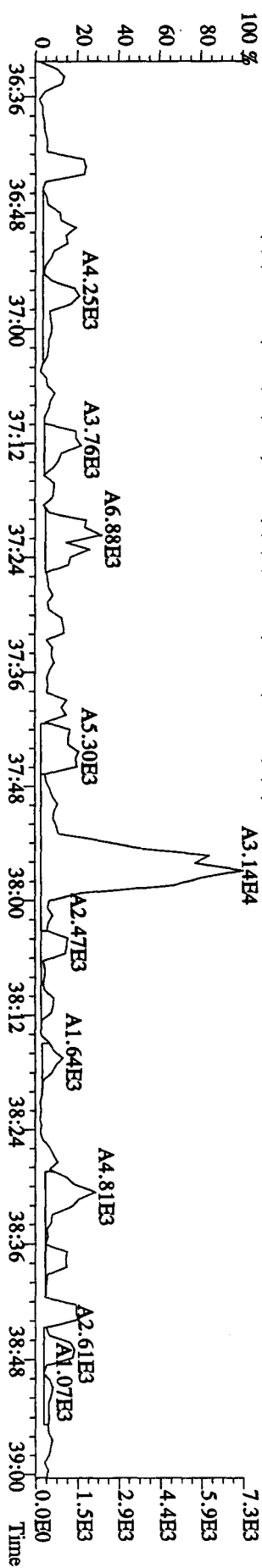
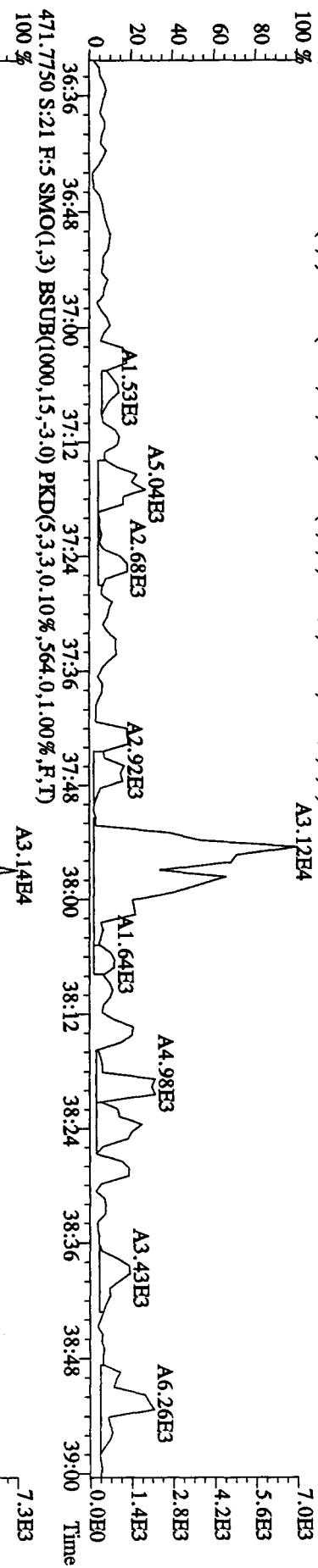
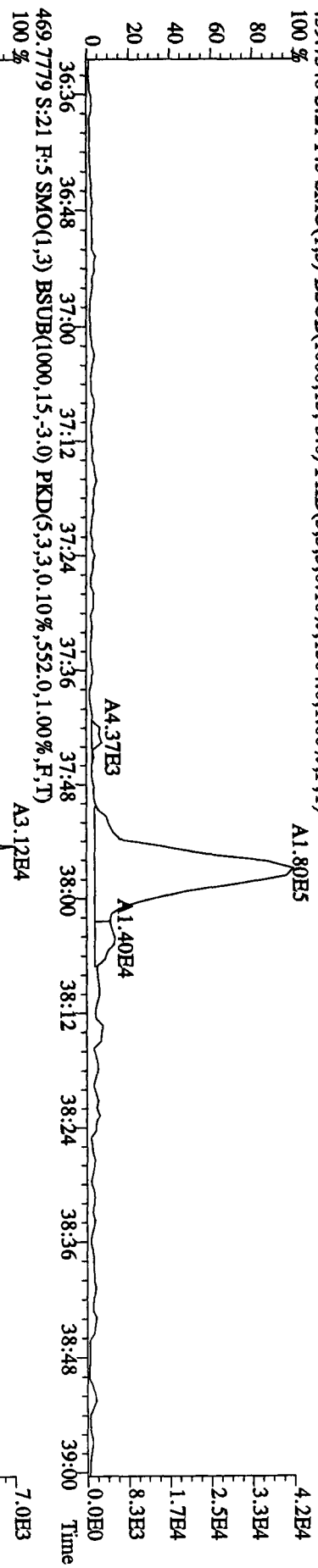
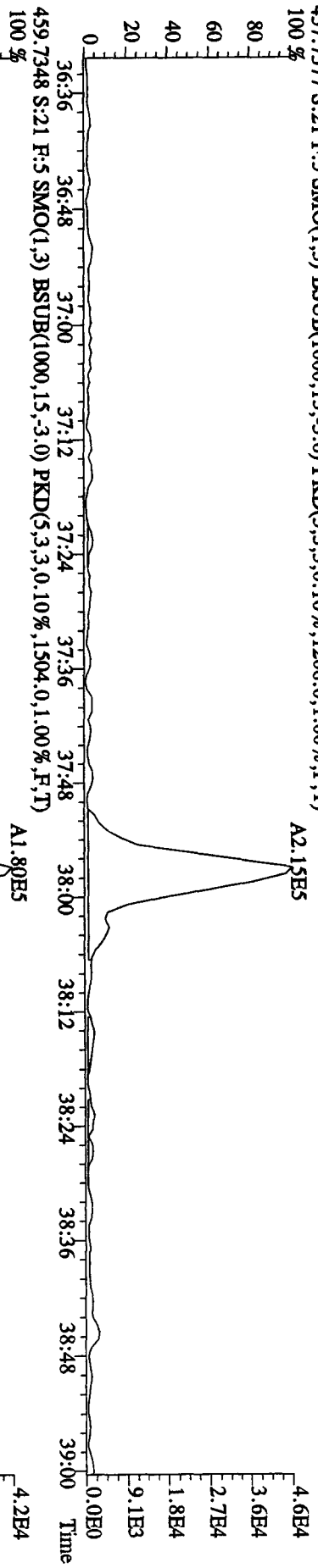


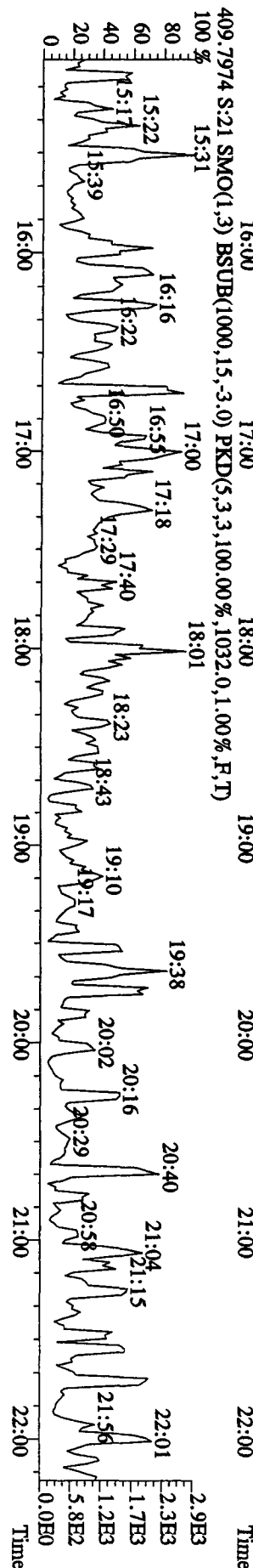
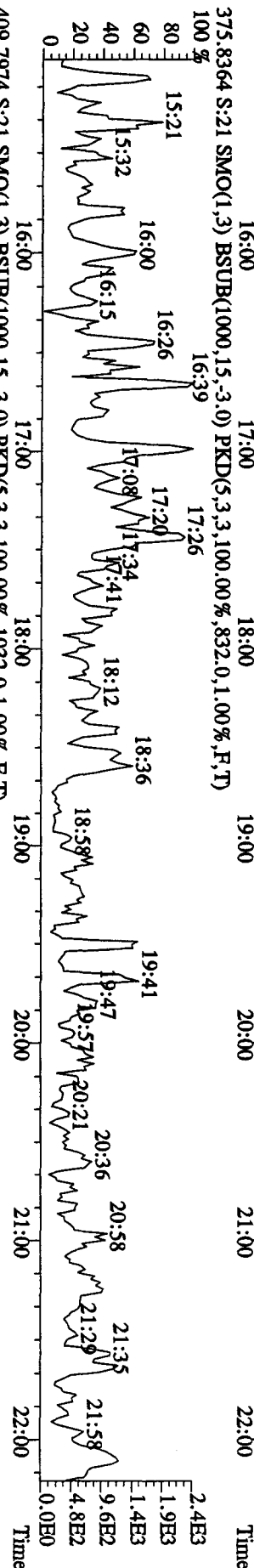
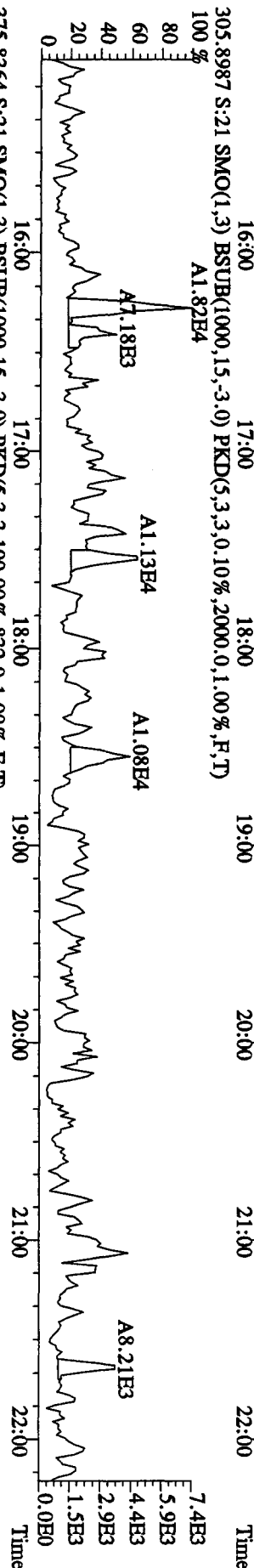
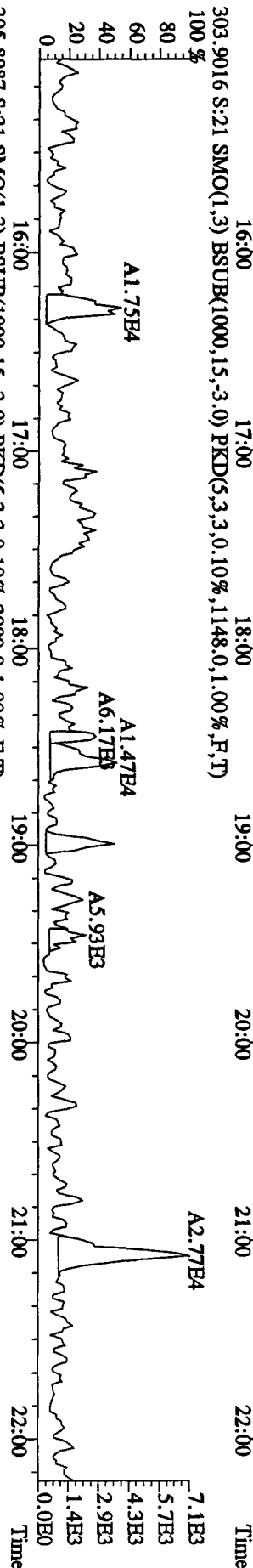
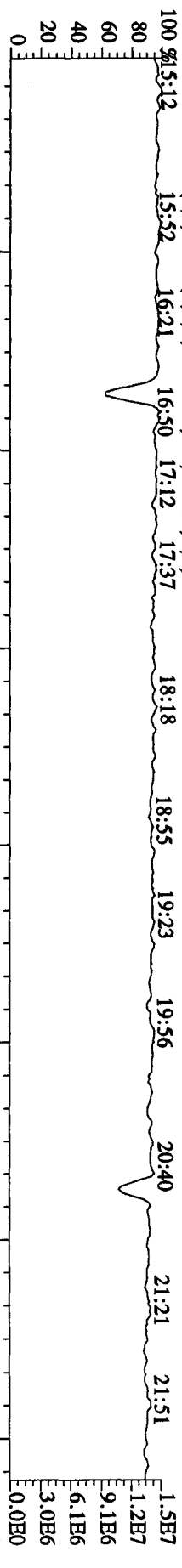
File: 21AP10B4D5 #1-190 Acq: 22-APR-2010 11:46:52 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#21 Text: SB0421C : Solvent Blank C-14 Exp: DIOXINRES8290A  
 441.7428 S: 21 F: 5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,700,0,1,00%,F,T)



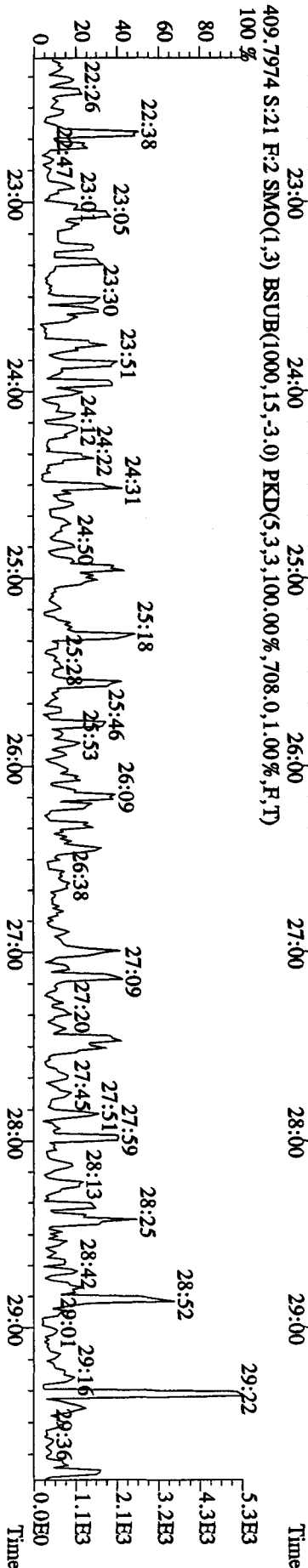
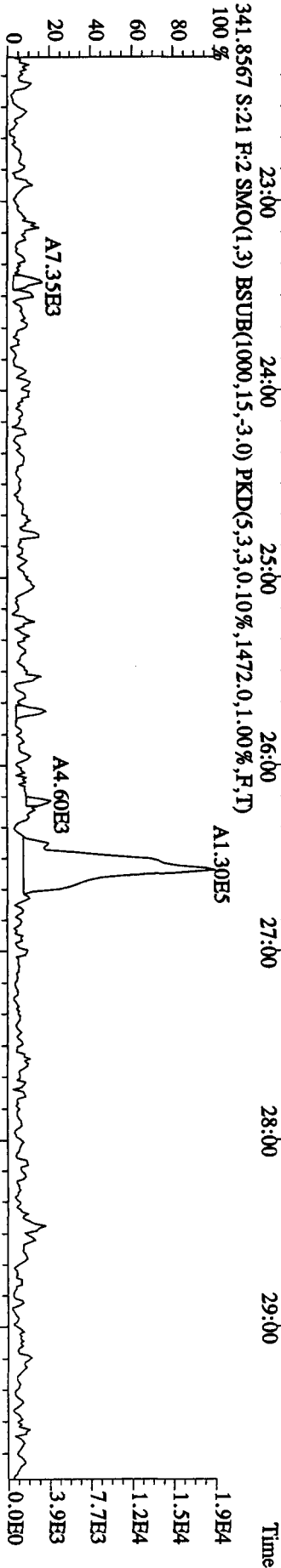
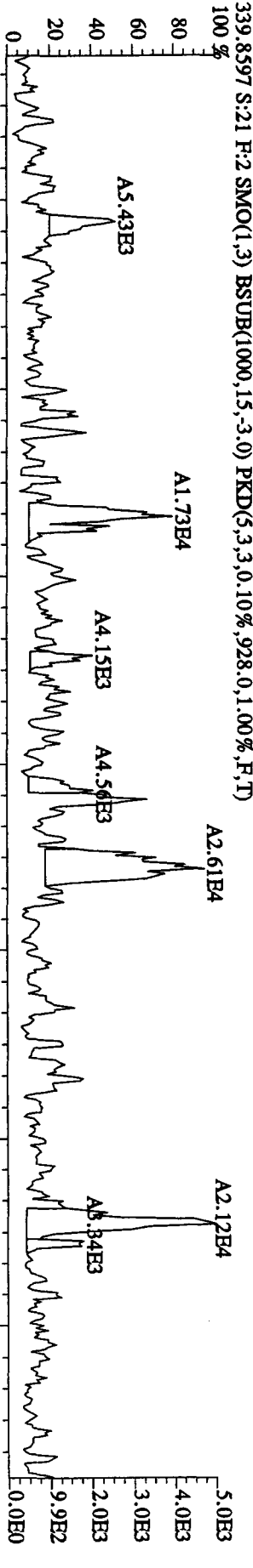
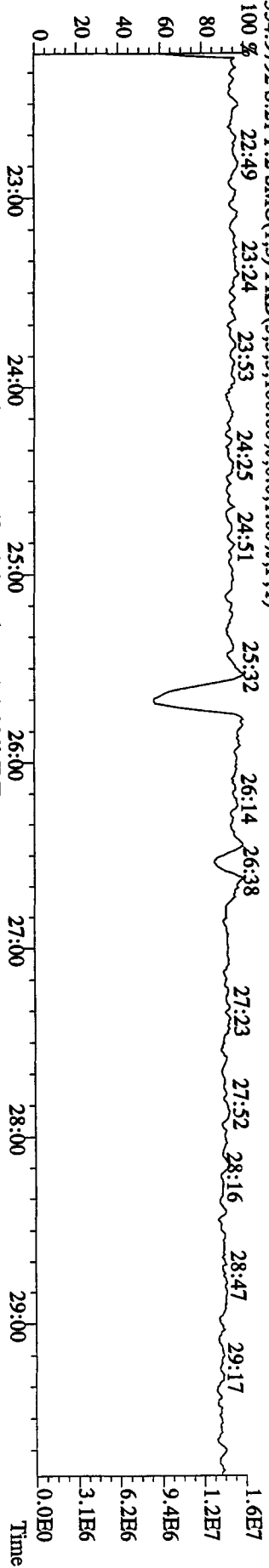


File:21AP10B4D5 #1-190 Acq:22-APR-2010 11:46:52 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#21 Text:SB0421C ;Solvent Blank C-14 Exp:DIOXINRES8290A  
 457.7377 S:21 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1208.0,1.00%,F,T)

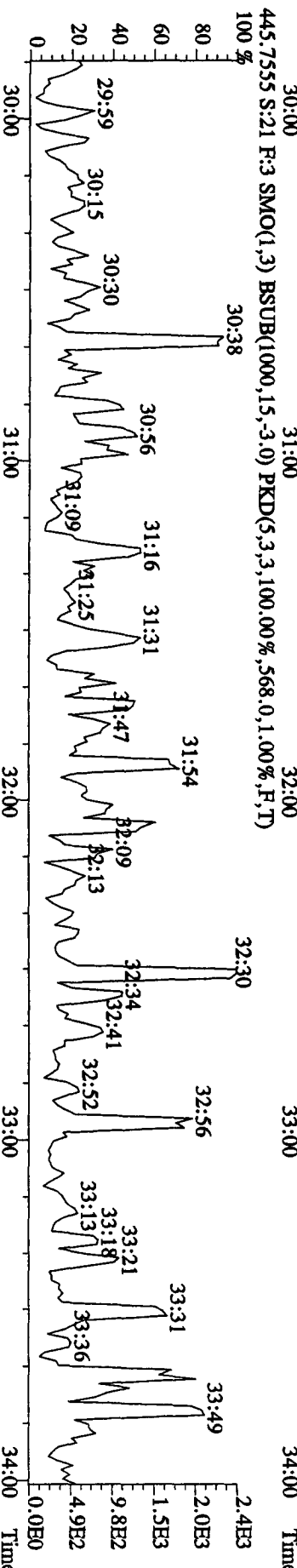
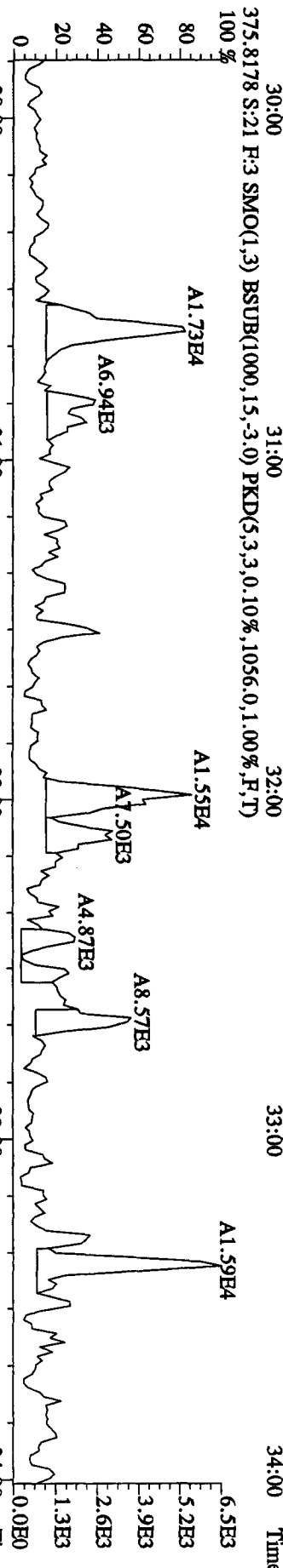
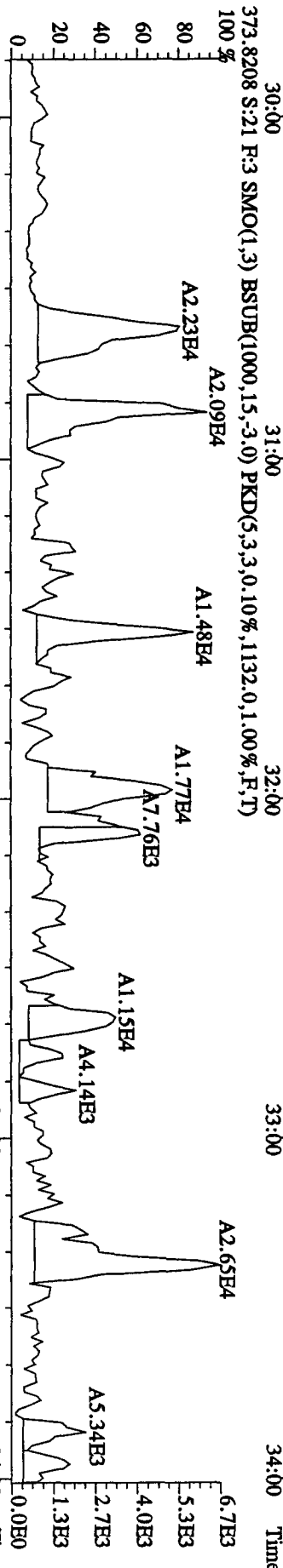
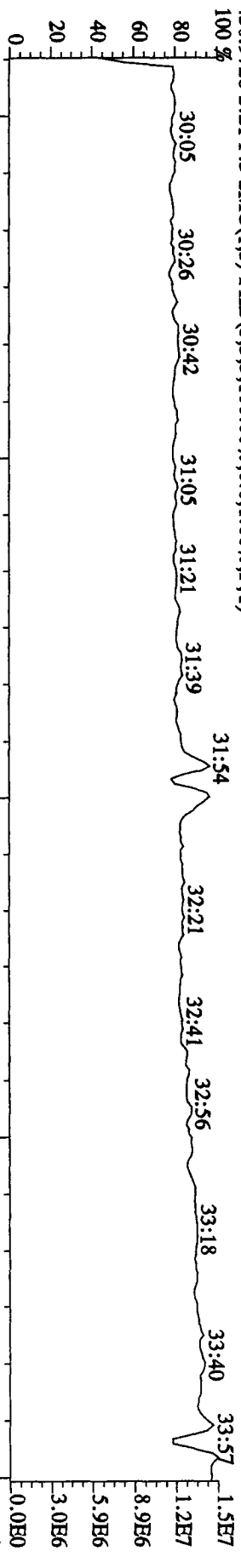


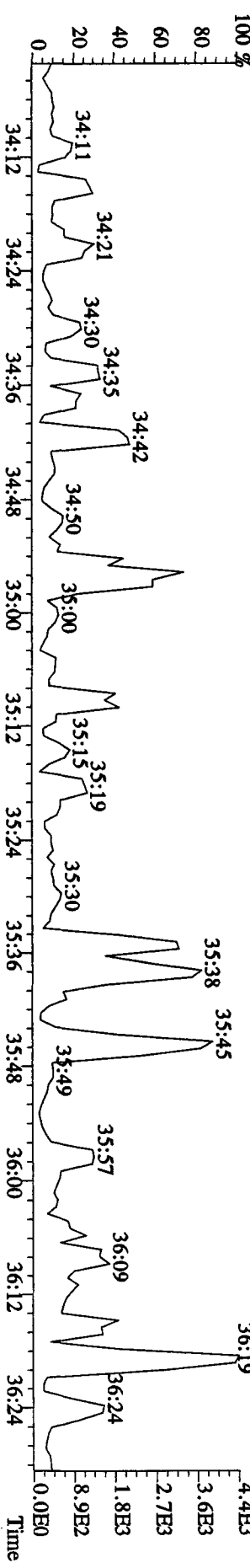
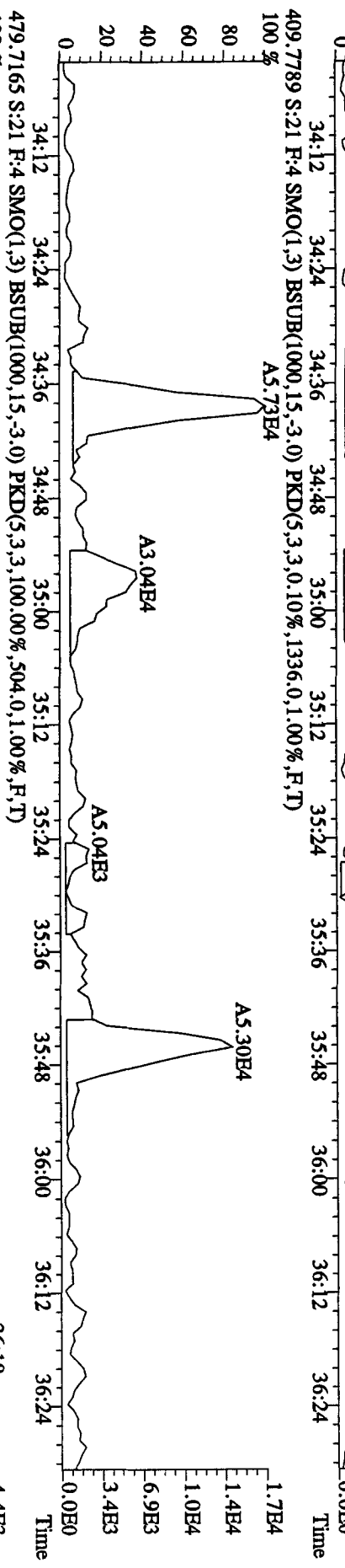
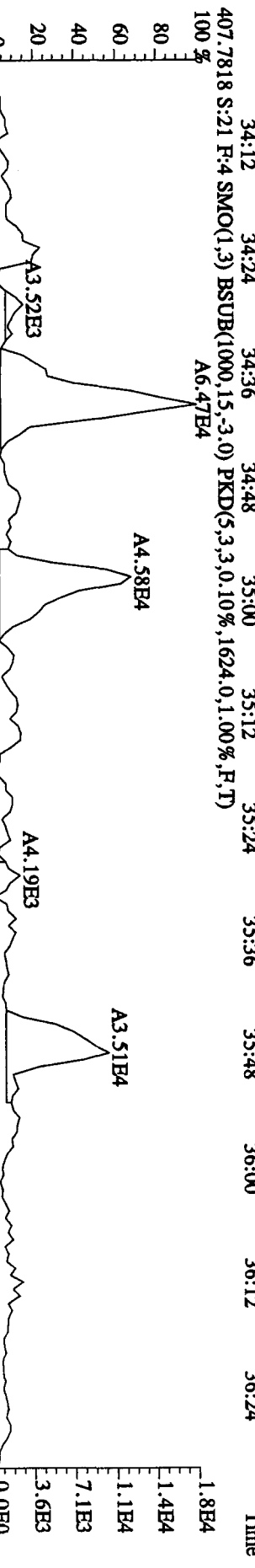
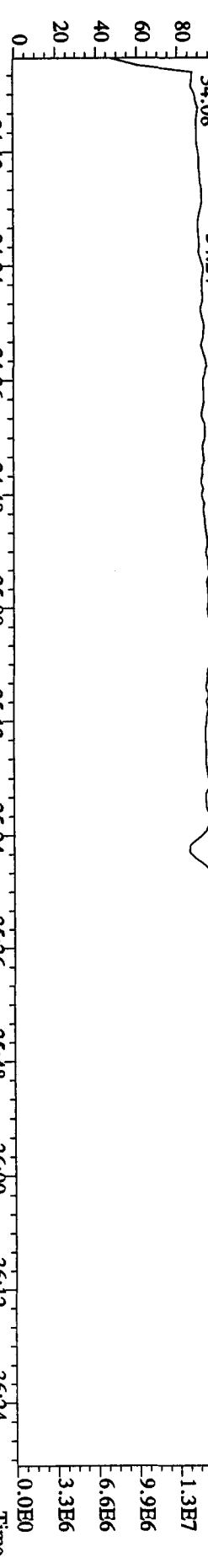


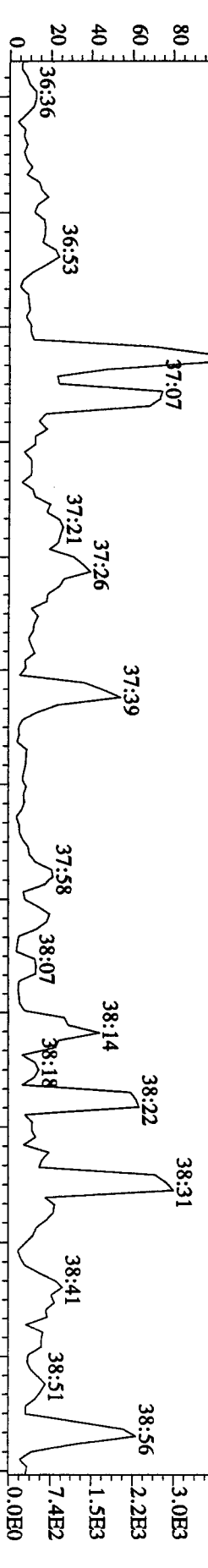
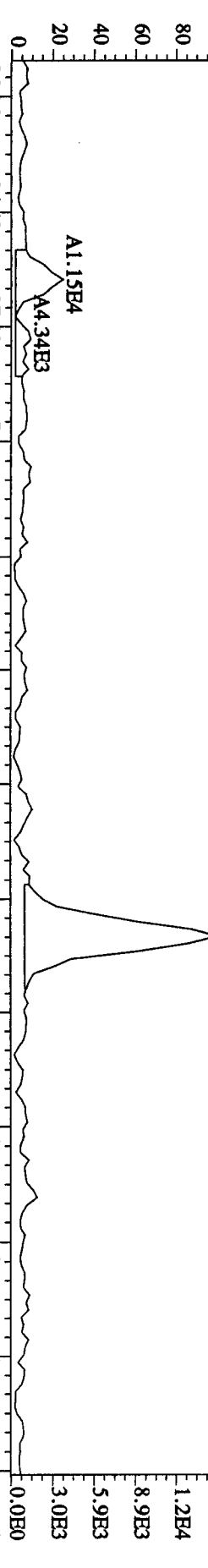
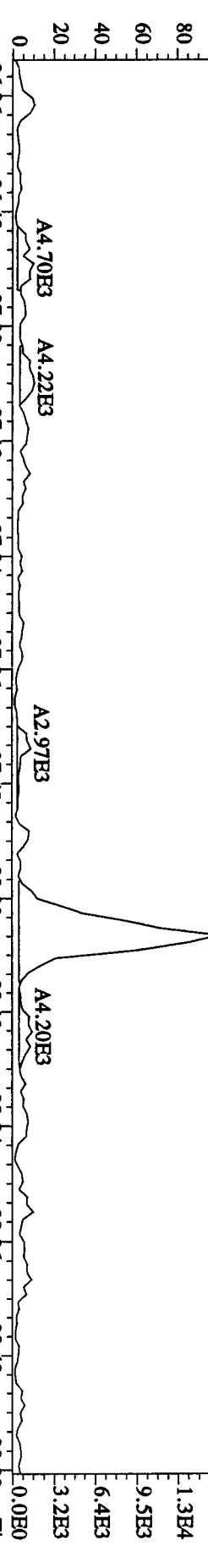
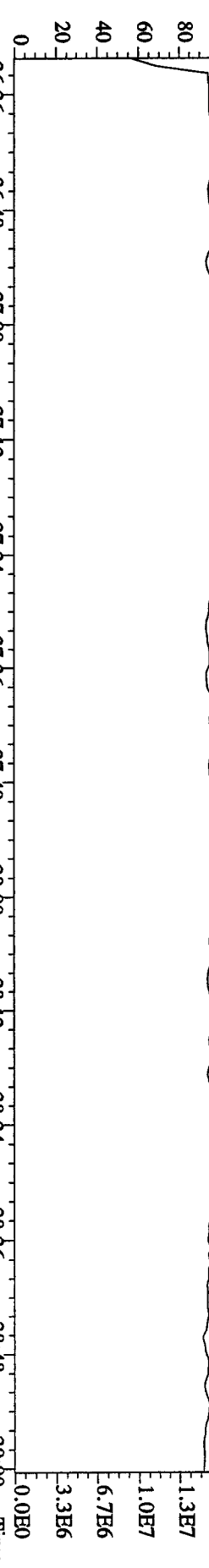
File: 21AP10B4D5 #1-604 Acq: 22-APR-2010 11:46:52 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#21 Text: SB0421C : Solvent Blank C-14 Exp: DIOXINRES8290A  
 354.9792 S:21 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



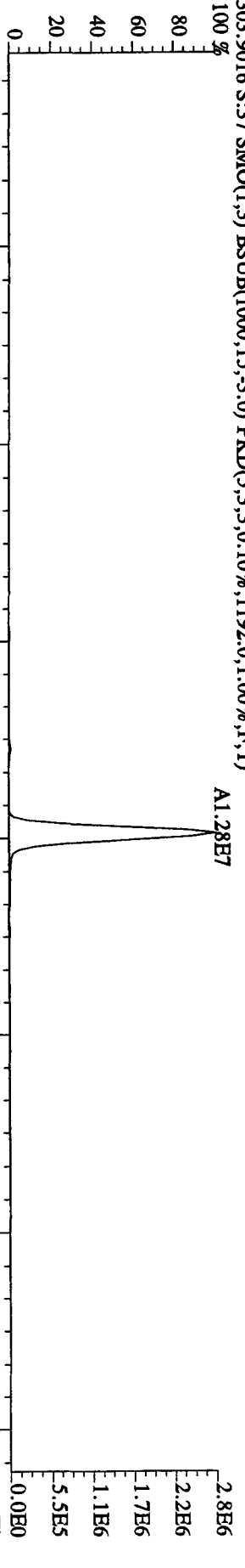
File:21API0B4D5 #1-317 Acq:22-APR-2010 11:46:52 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#21 Text:SB0421C :Solvent Blank C-14 Exp:DIOXINRES8290A  
 430.9728 S:21 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



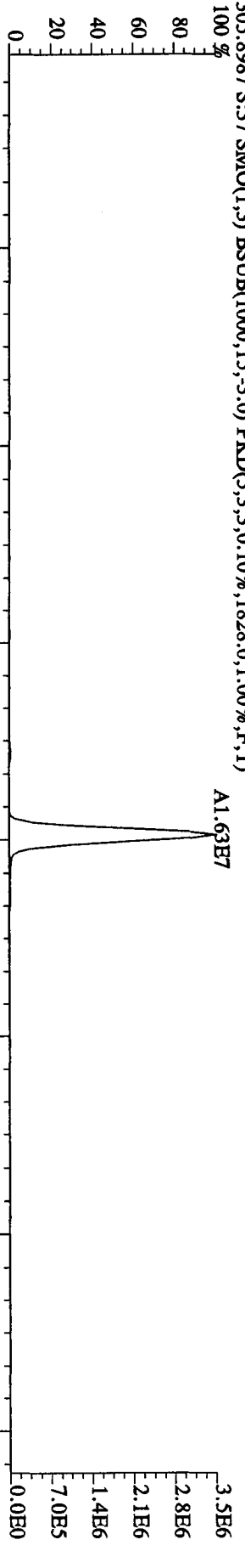




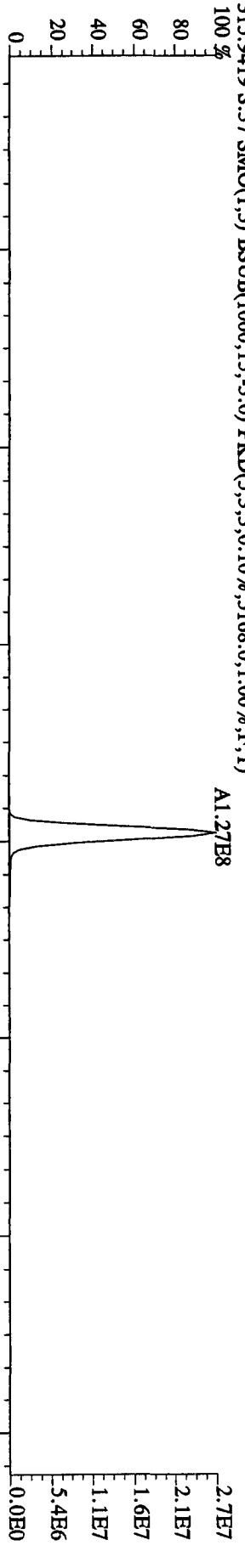
File:21AP10B4D5 #1-434 Acq:22-APR-2010 23:31:28 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#37 Text:ST0421D :CS3 10DXN111 Exp:DIOXINRES8290A  
 303.9016 S:37 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1192.0,1.00%,F,T) 100% A1.28E7



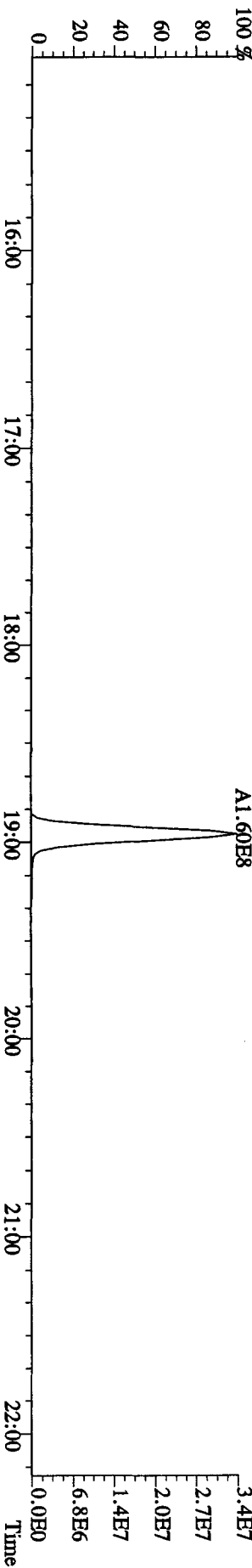
305.8987 S:37 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1828.0,1.00%,F,T) 100% A1.63E7



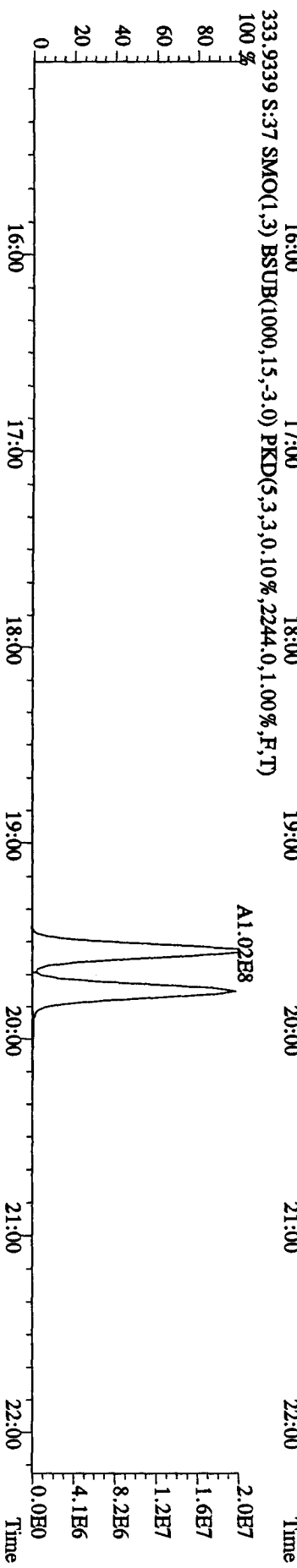
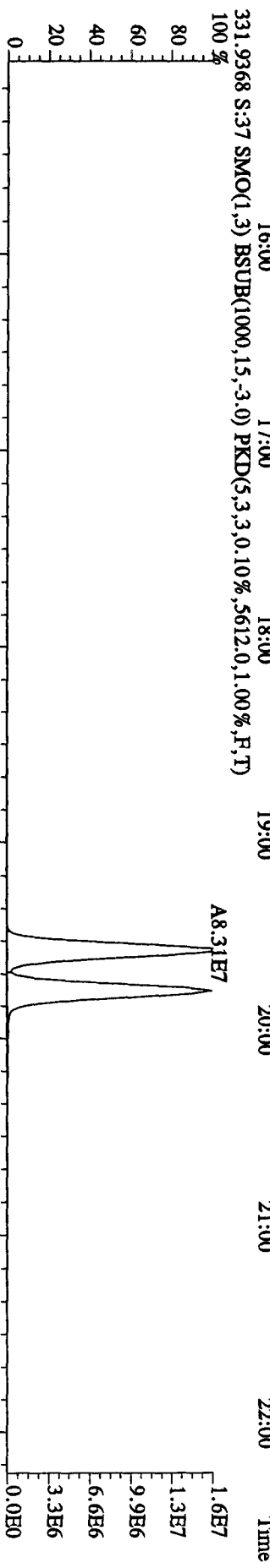
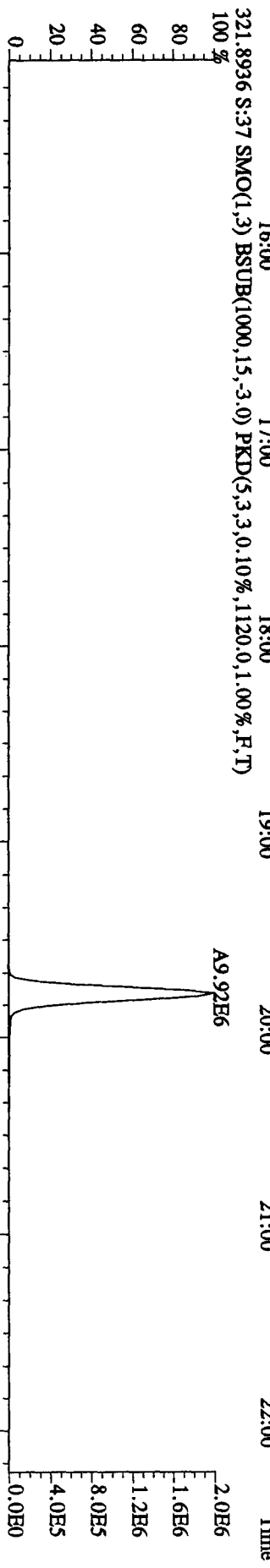
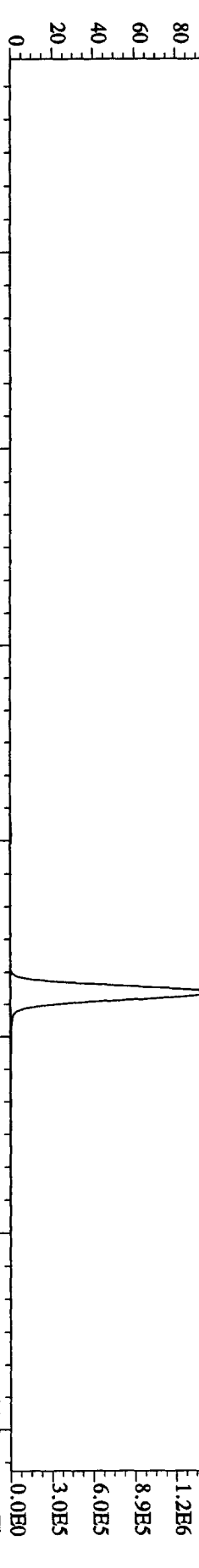
315.9419 S:37 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5168.0,1.00%,F,T) 100% A1.27E8



317.9389 S:37 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1780.0,1.00%,F,T) 100% A1.60E8

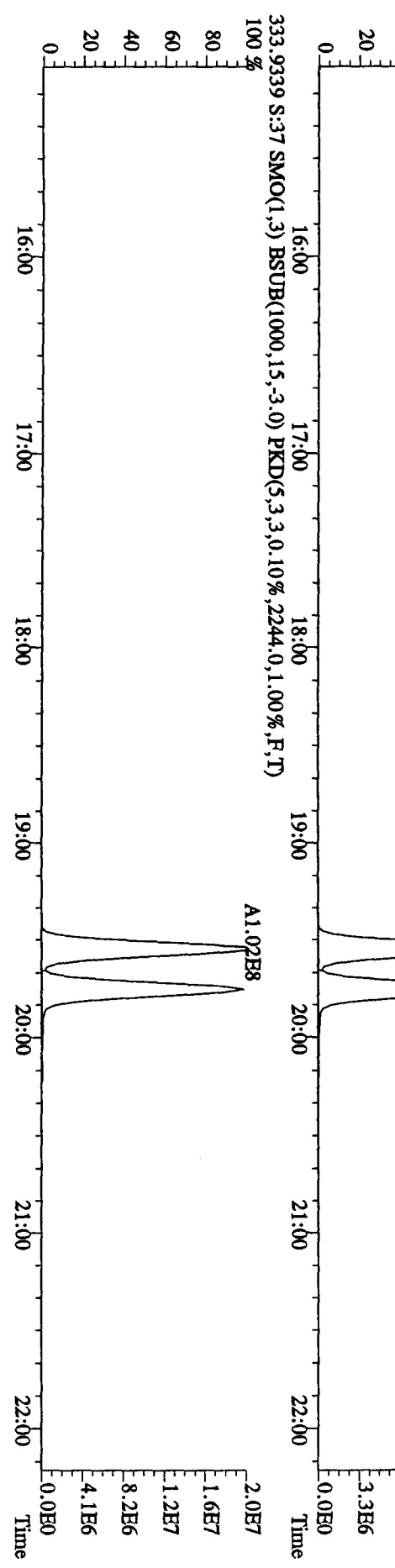
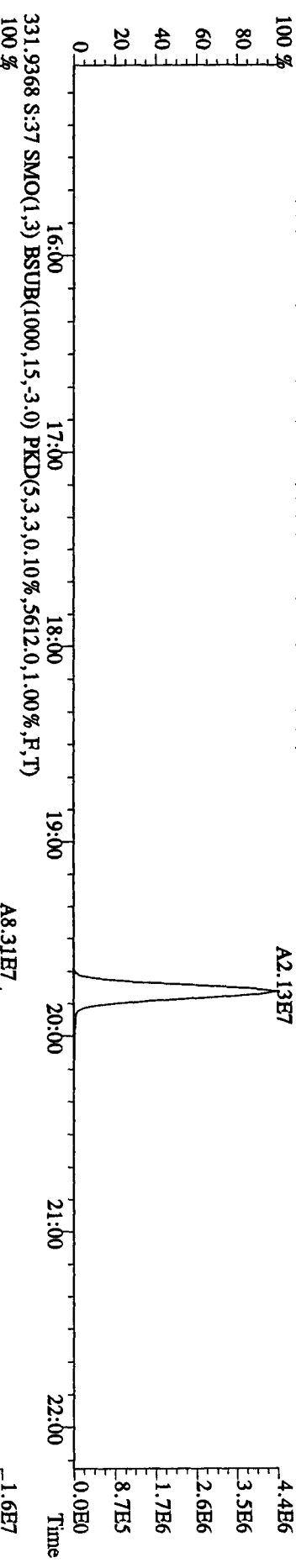
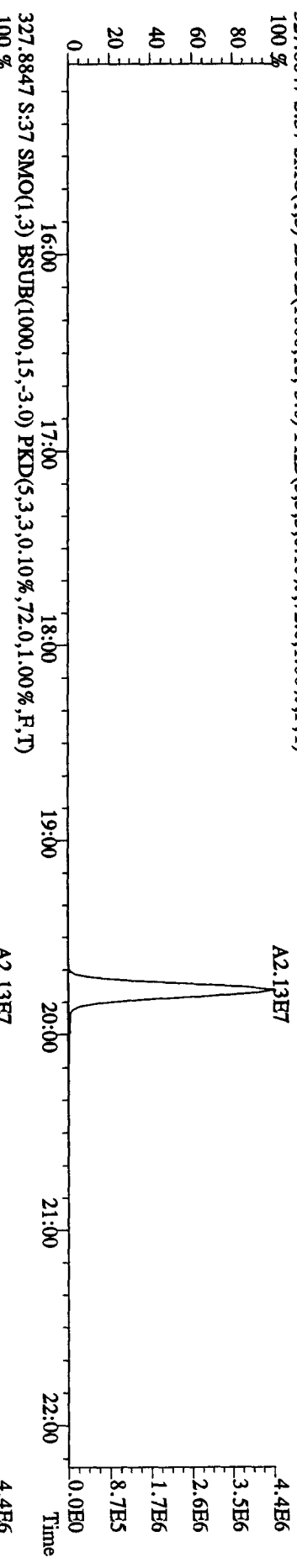


File:21AD10B4D5 #1-434 Acq:22-APR-2010 23:31:28 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#37 Text:ST0421D :CS3 10DXN111 Exp:DIOXINRES8290A  
 319.8965 S:37 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,468,0,1,00%,F,T)

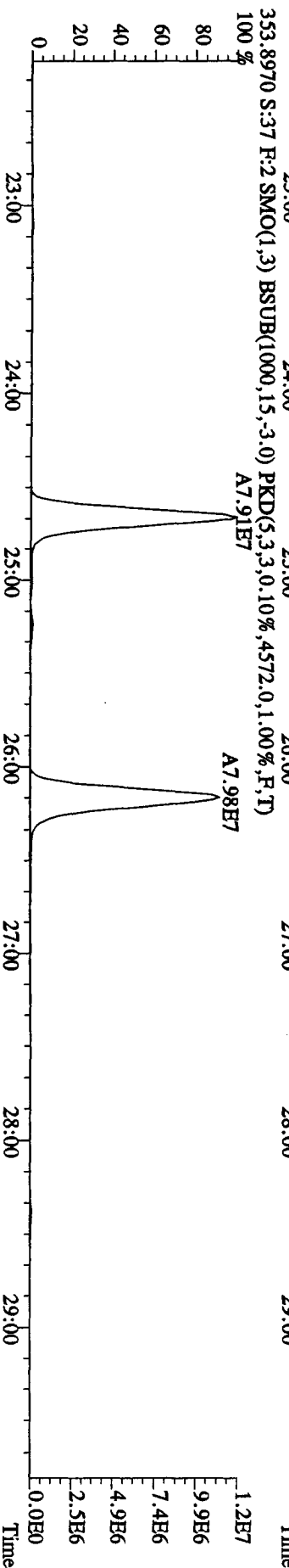
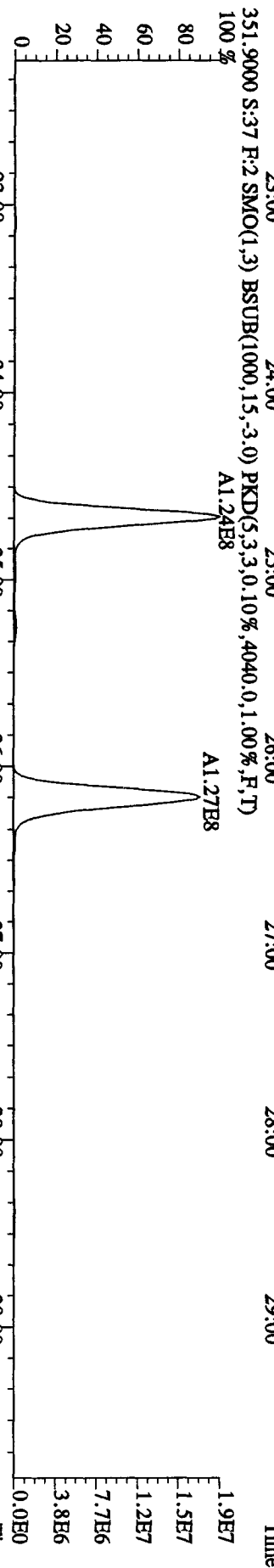
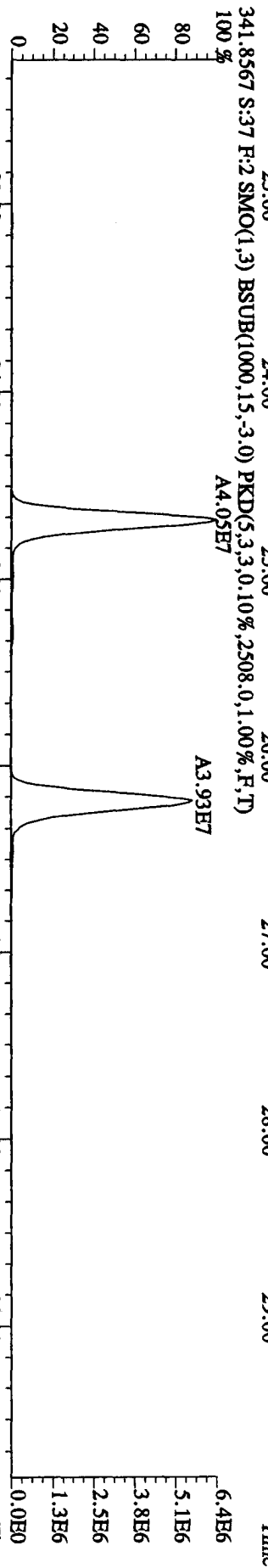
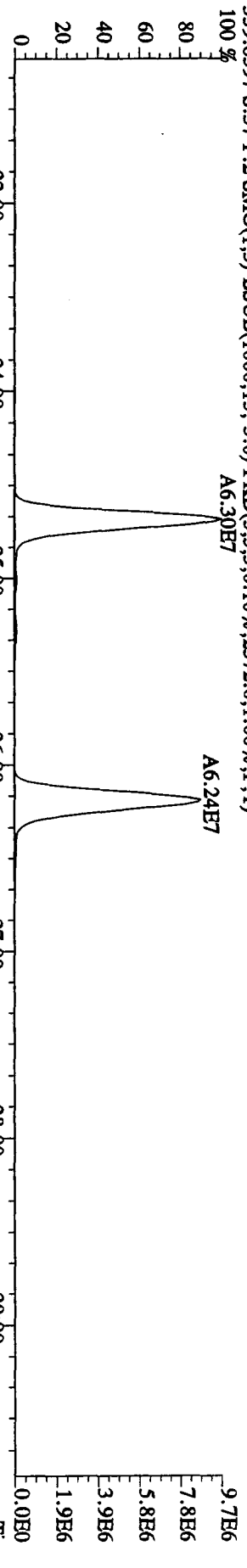




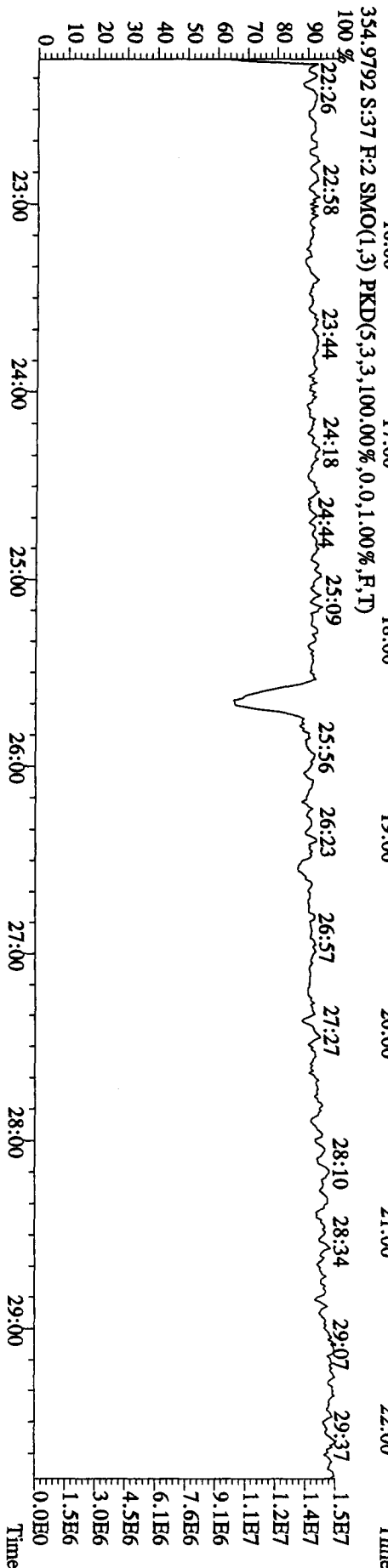
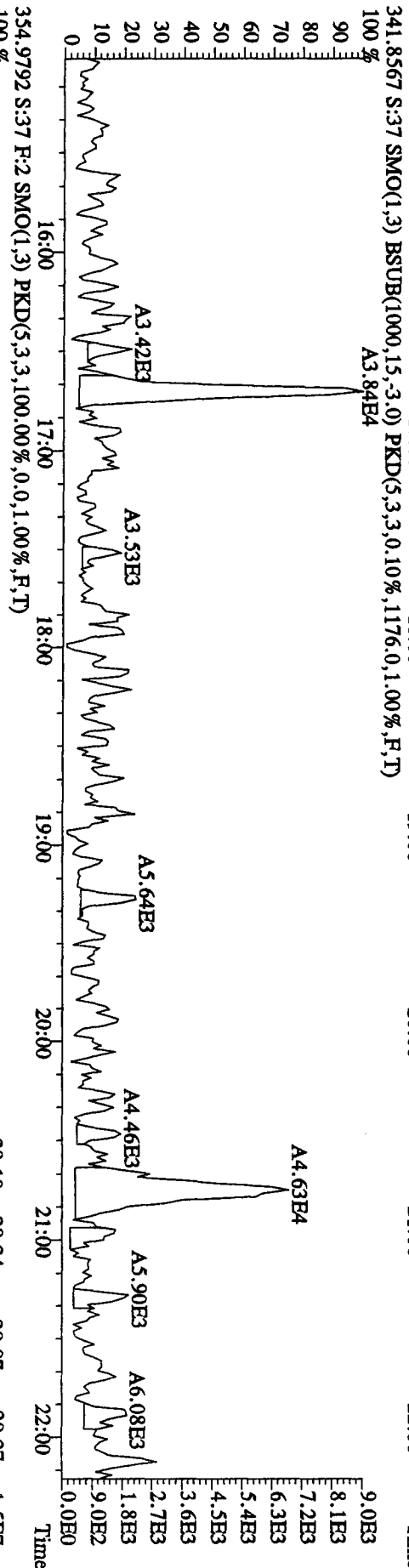
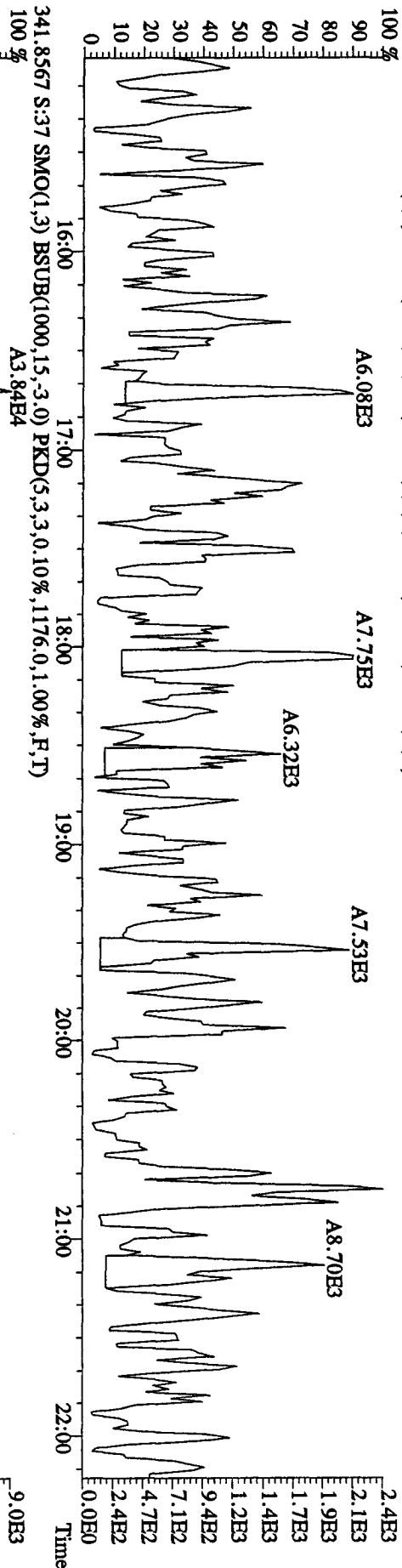
File:21AP10BAD5 #1-434 Acq:22-APR-2010 23:31:28 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#37 Text:ST0421D :CS3 10DXN111 Exp:DIOXINRES8290A  
 327.8847 S:37 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,72.0,1.00%,F,T) 100%  
 100%



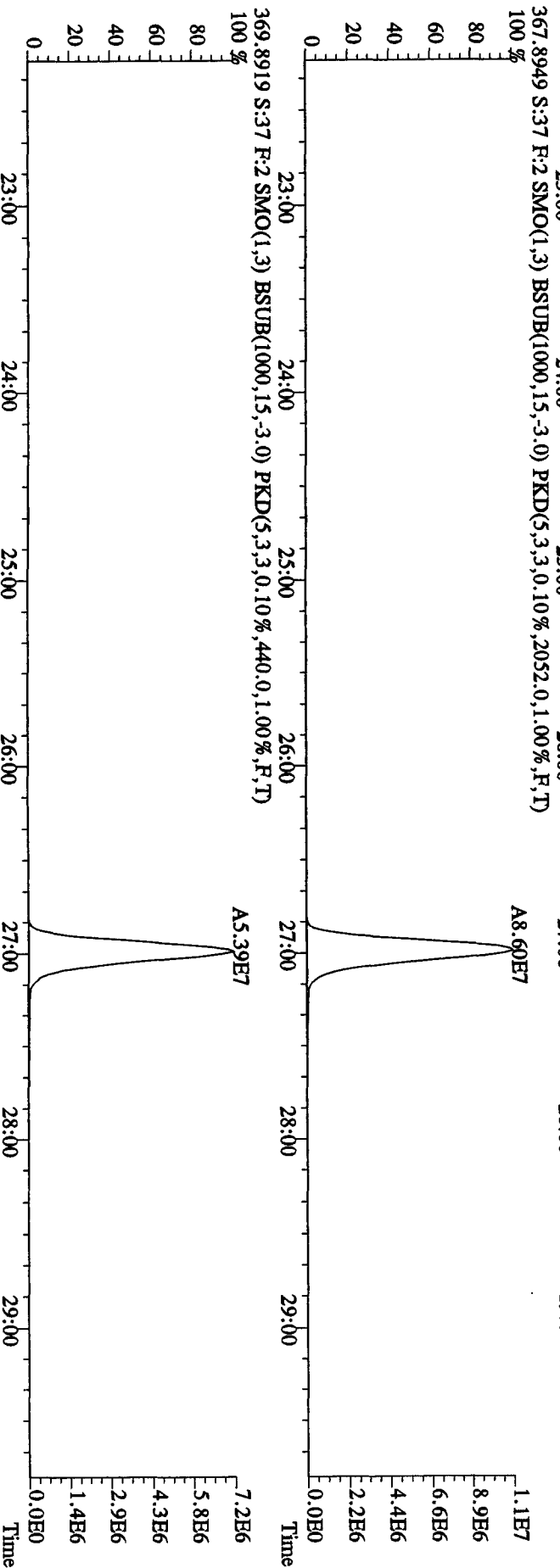
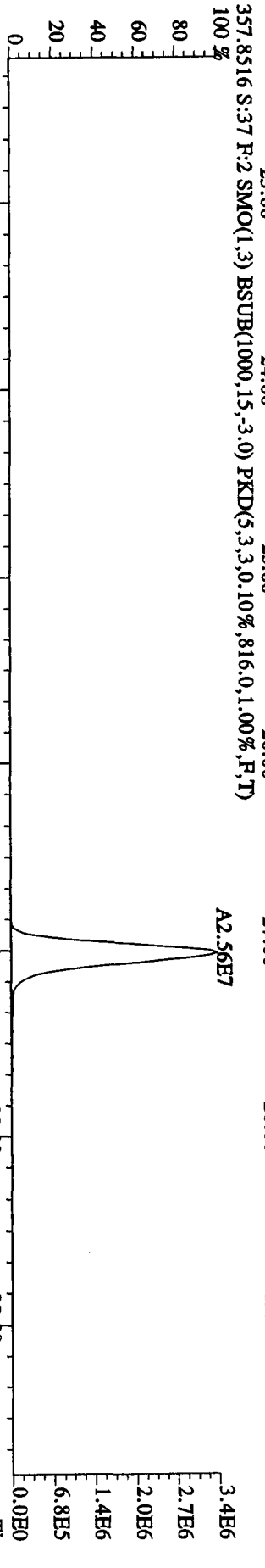
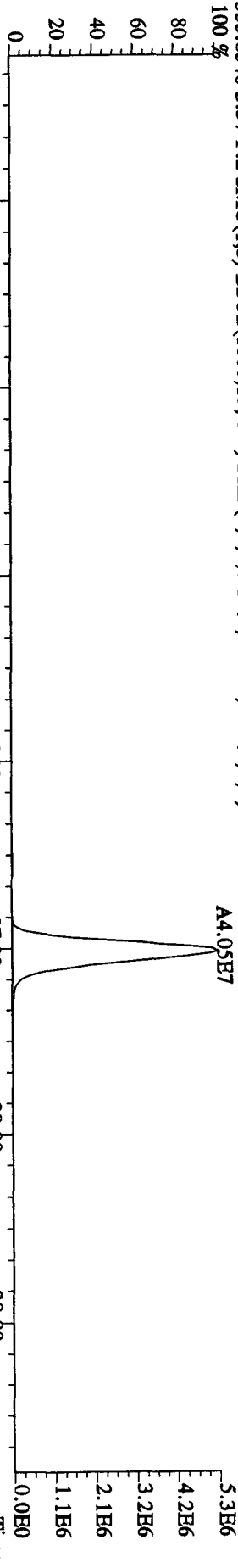
File:21AP10B4D5 #1-604 Acq:22-APR-2010 23:31:28 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#37 Text:ST0421D :CS3 10DXN111 Exp:DIOXINRES8290A  
 339.8597 S:37 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0,10%,2372.0,1.00%,F,T)



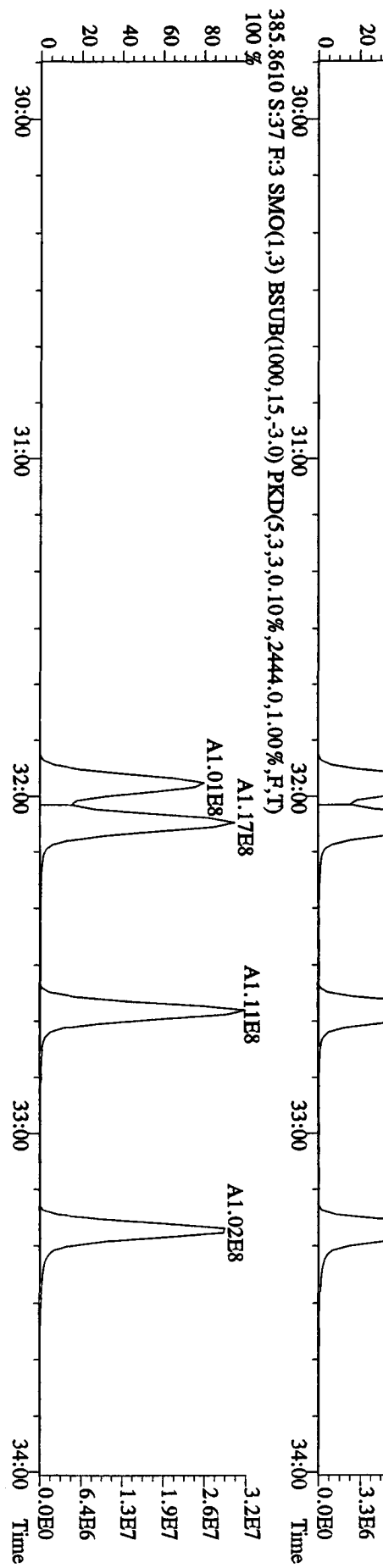
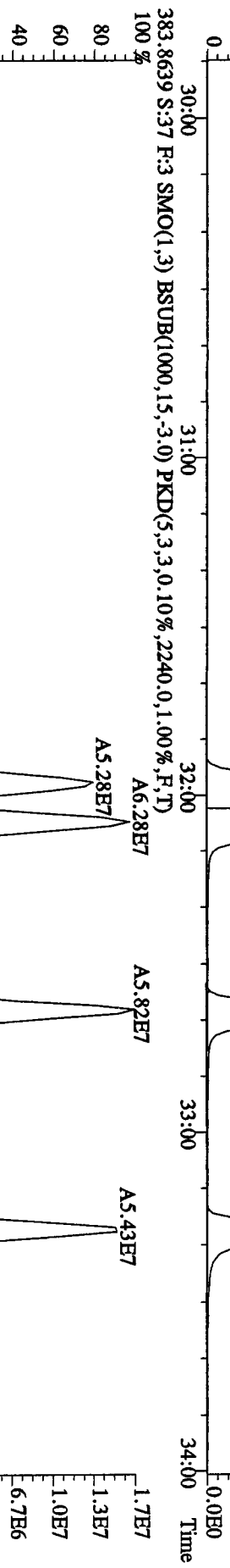
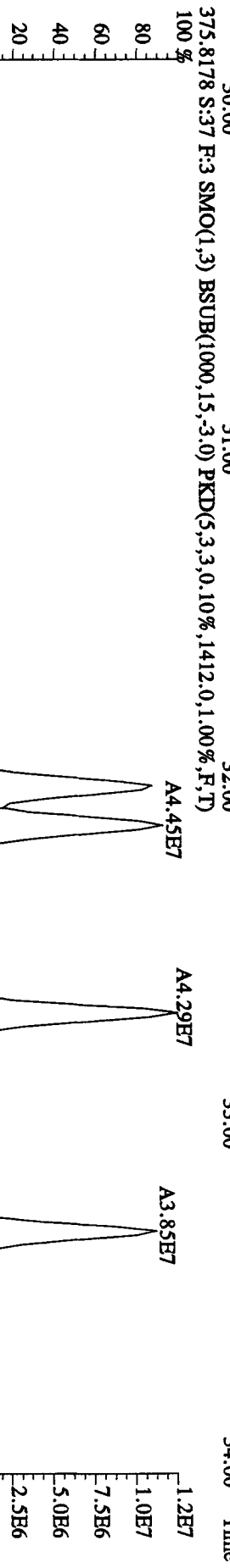
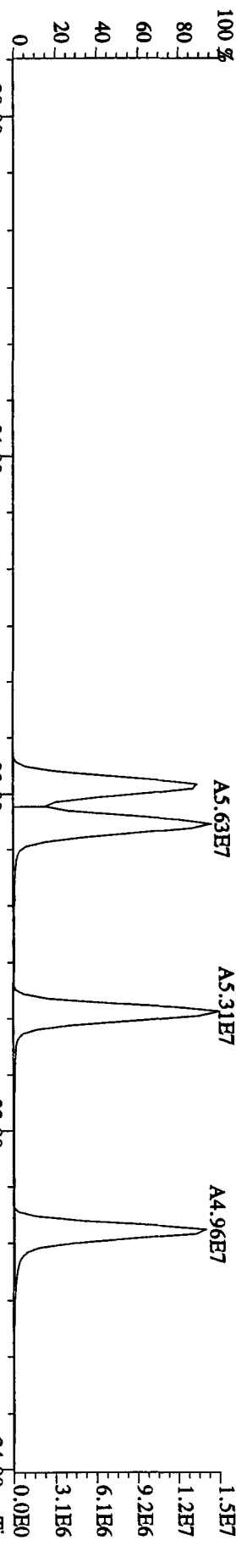
File: 21AP10B4D5 #1-434 Acq: 22-APR-2010 23:31:28 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#37 Text: ST0421D :CS3 10DXN111 Exp: DIOXINRES8290A  
 339.8597 S:37 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1164.0,1.00%,F,T)



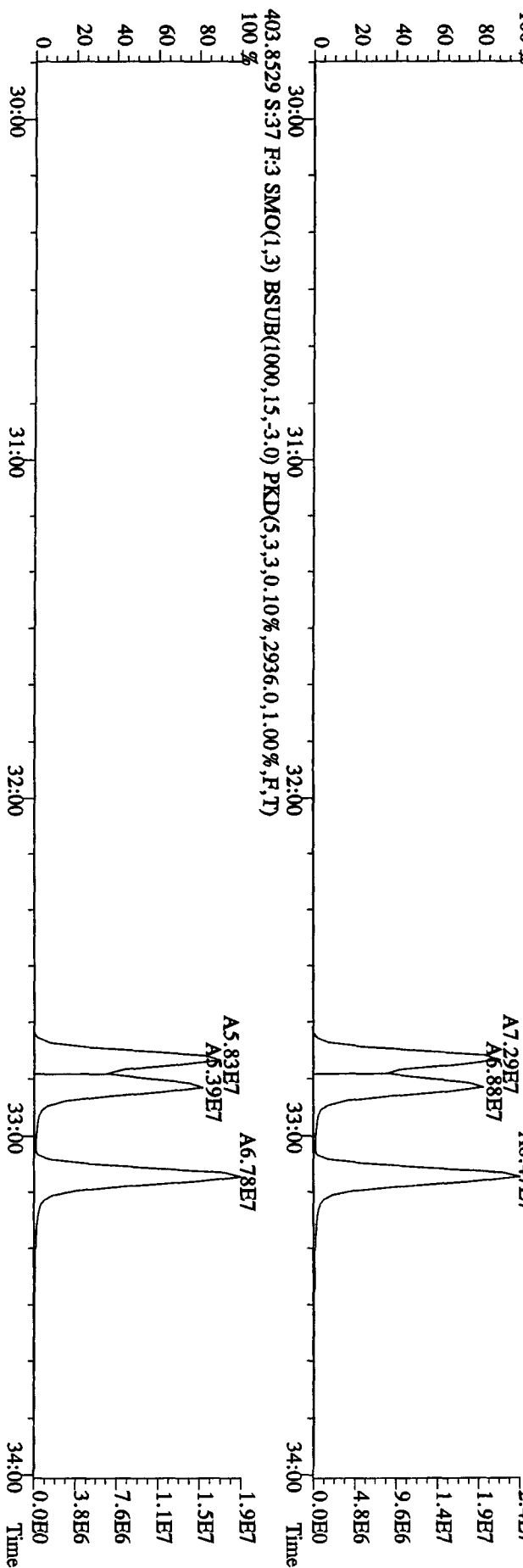
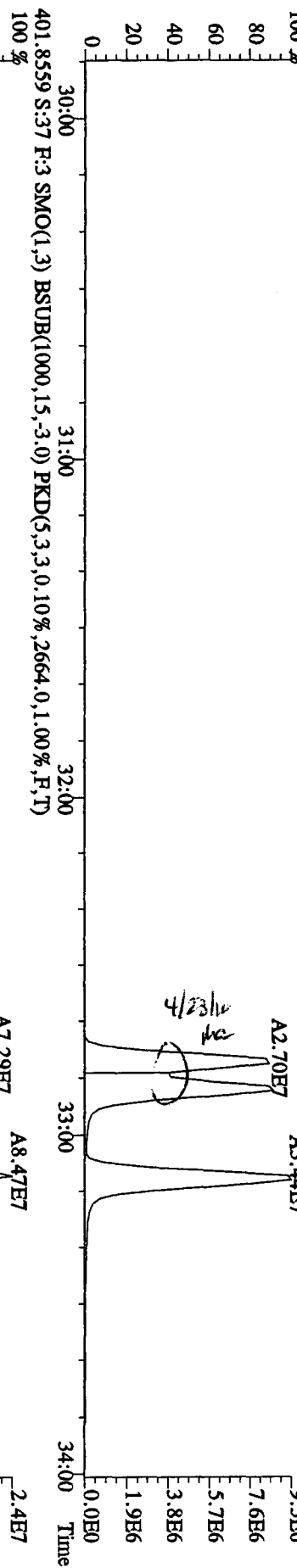
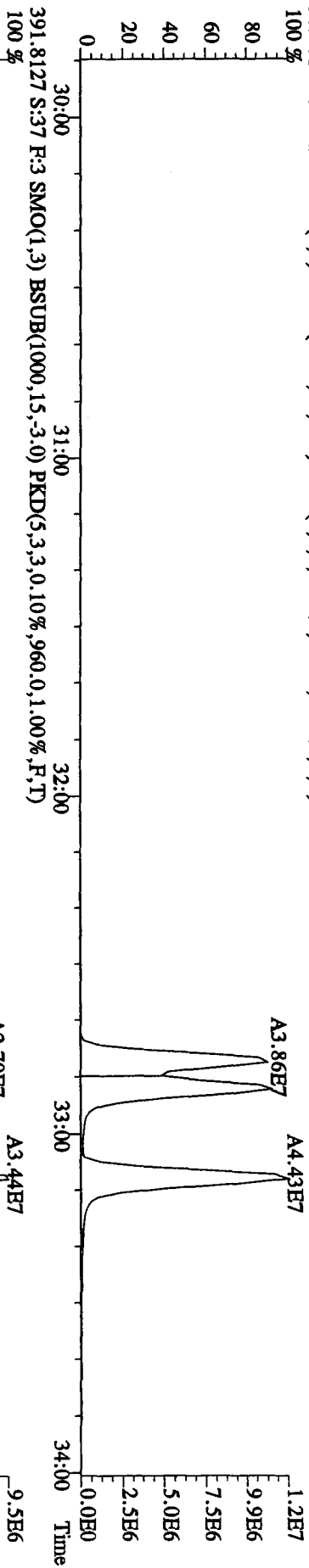
File:21AP10B4D5 #1-604 Acq:22-APR-2010 23:31:28 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#37 Text:ST0421D :CS3 10DXN111 Exp:DXINRES8290A  
 355.8546 S:37 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1700,0,1,00%,F,T)



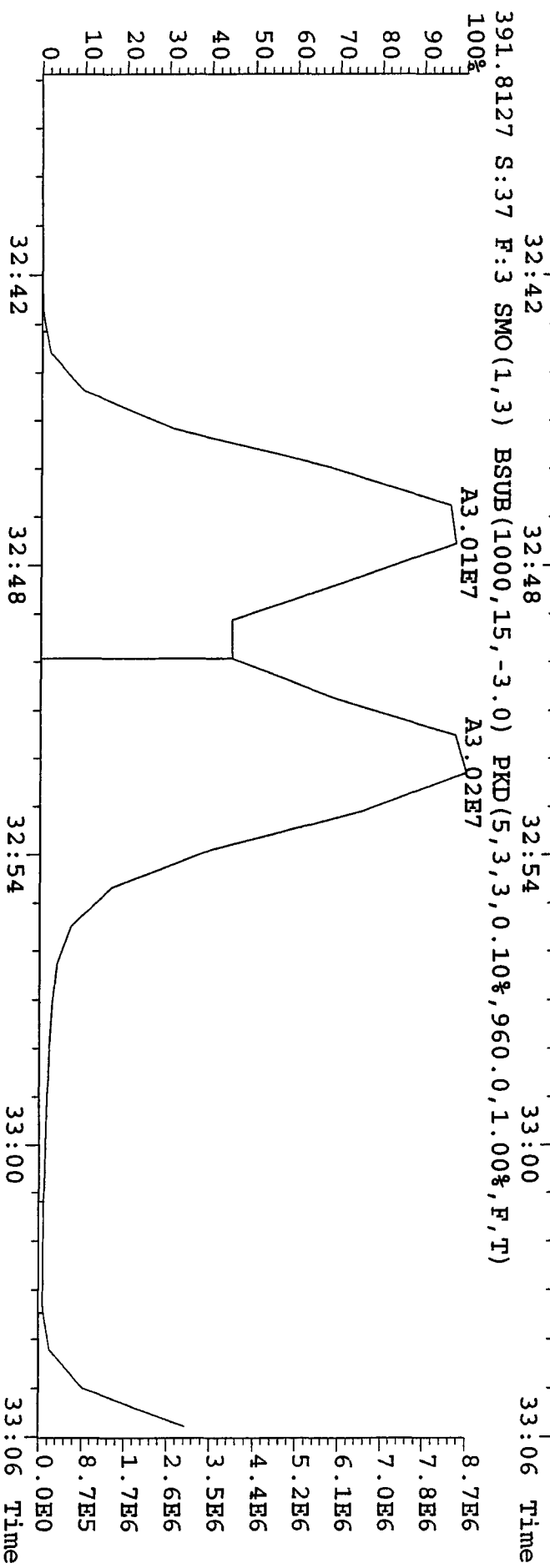
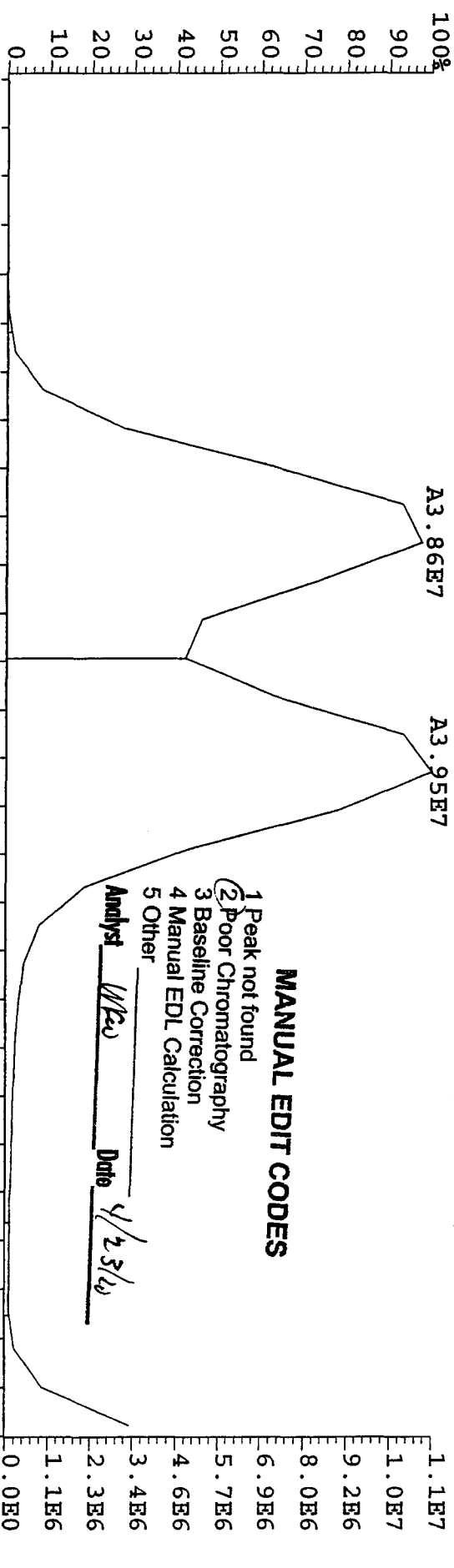
File:21API0B4D5 #1-317 Acq:22-APR-2010 23:31:28 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#37 Text:ST0421D :CSS 10DXN111 Exp:DIOXINRES8290A  
 373.8208 S:37 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1712.0,1.00%,F,T)



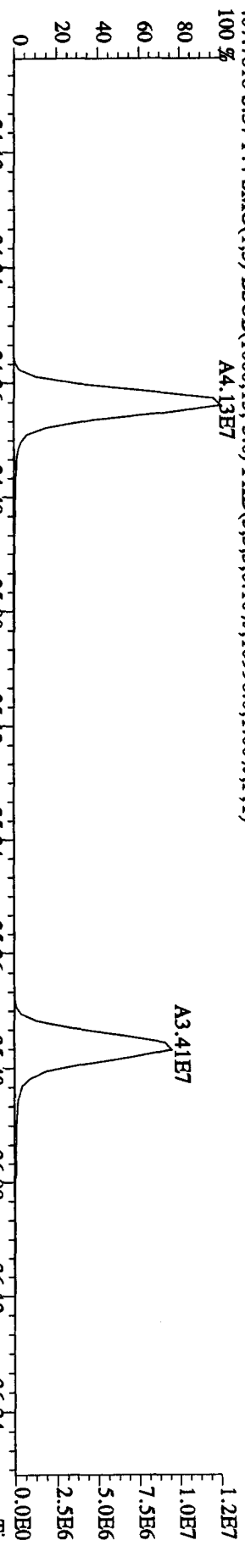
File:21AP10B4D5 #1-317 Acq:22-APR-2010 23:31:28 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#37 Text:ST0421D :CS3 10DXN111 Exp.:DIOXINRES8290A  
 389.8157 S:37 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,900.0,1.00%,F,T)



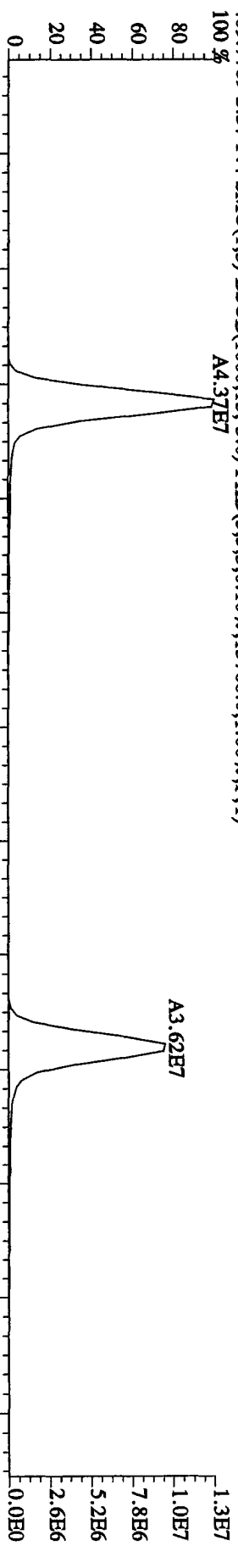
File: 21API0B4D5 #1-317 Acq: 22-APR-2010 23:31:28 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#37 Text: ST0421D : CS3 10DXN111 Exp: DIOXINRES8290A  
 389.8157 S:37 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,900.0,1.00%,F,T)



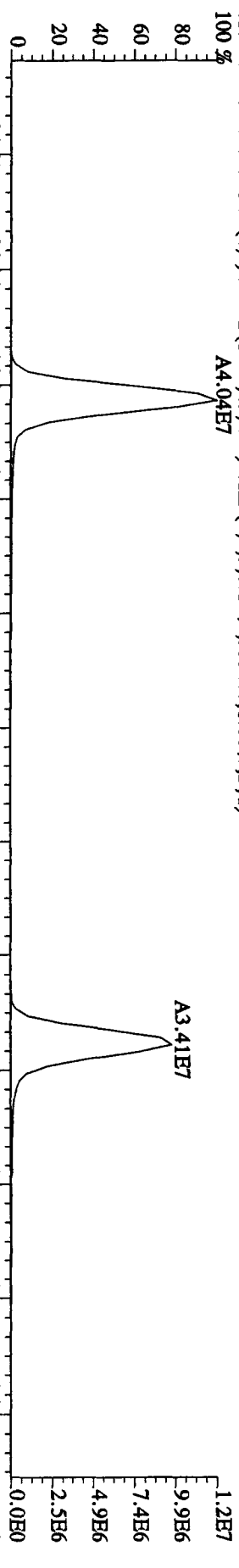
File:21API0BAD5 #1-198 Acq:22-APR-2010 23:31:28 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#37 Text:ST0421D :CS3 IODXN111 Exp:DIOXINRES8290A  
 407.7818 S:37 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10996.0,1.00%,F,T)



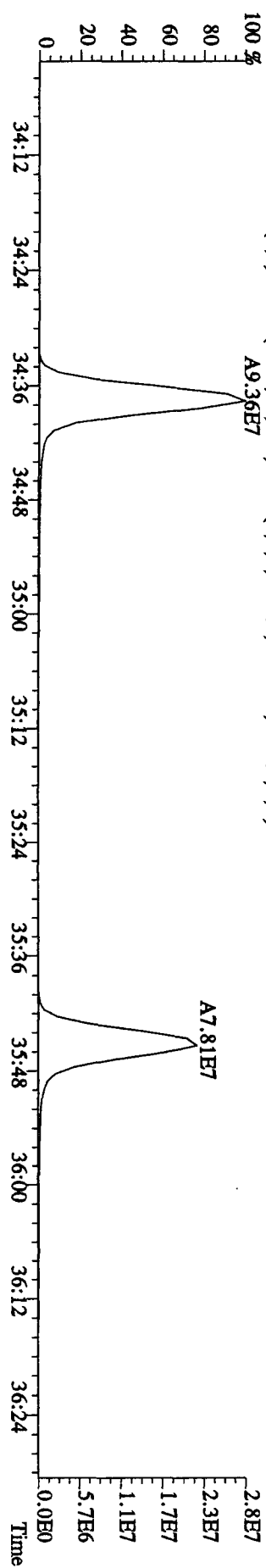
409.7789 S:37 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13768.0,1.00%,F,T)



417.8253 S:37 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9396.0,1.00%,F,T)

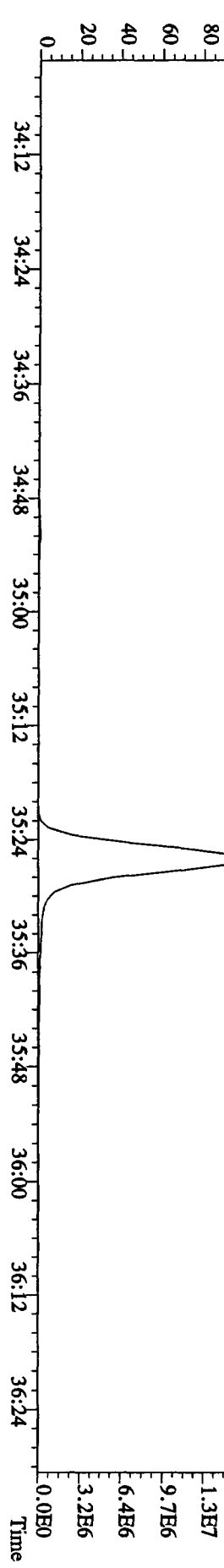
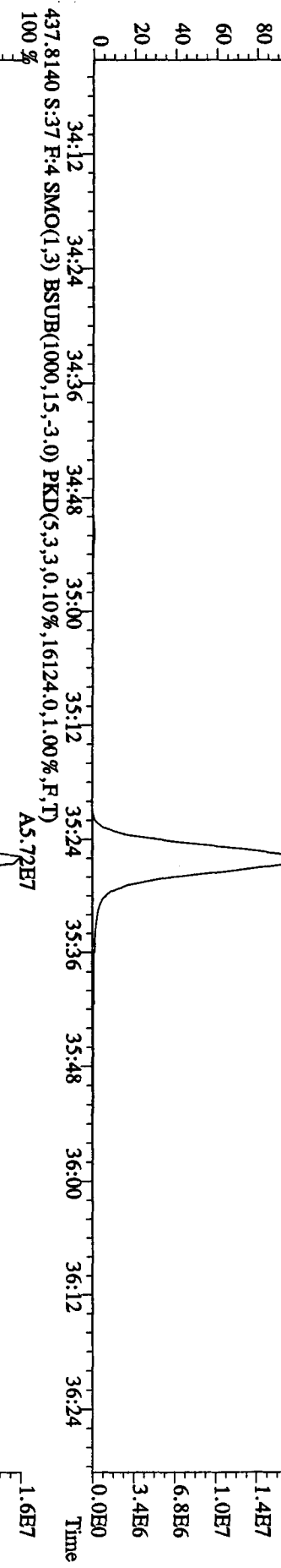
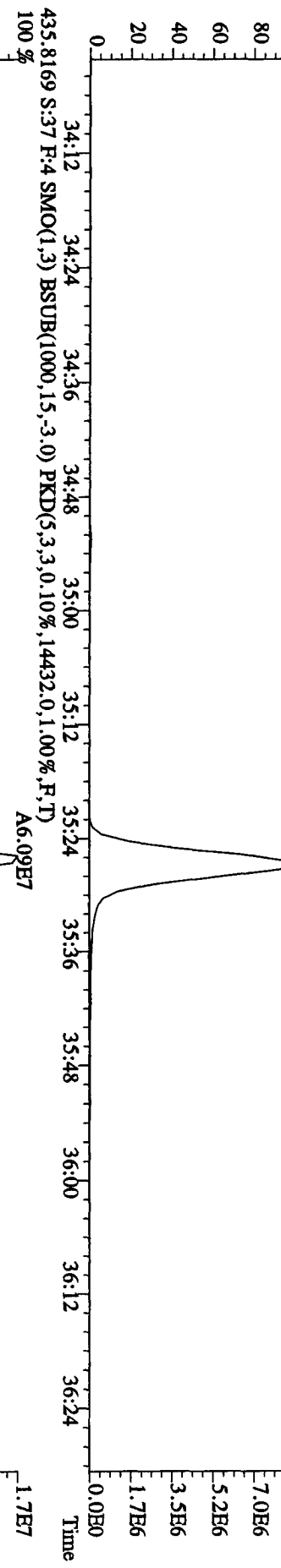
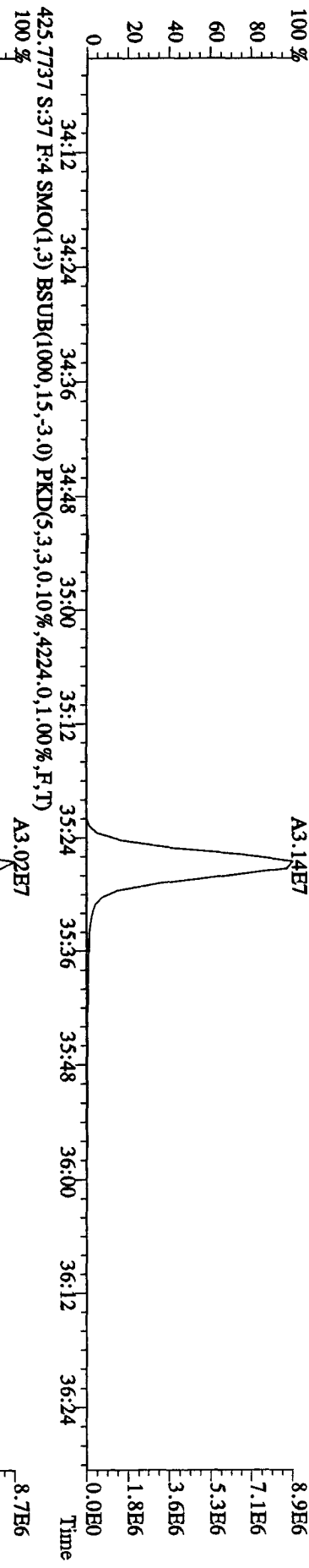


419.8220 S:37 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27808.0,1.00%,F,T)

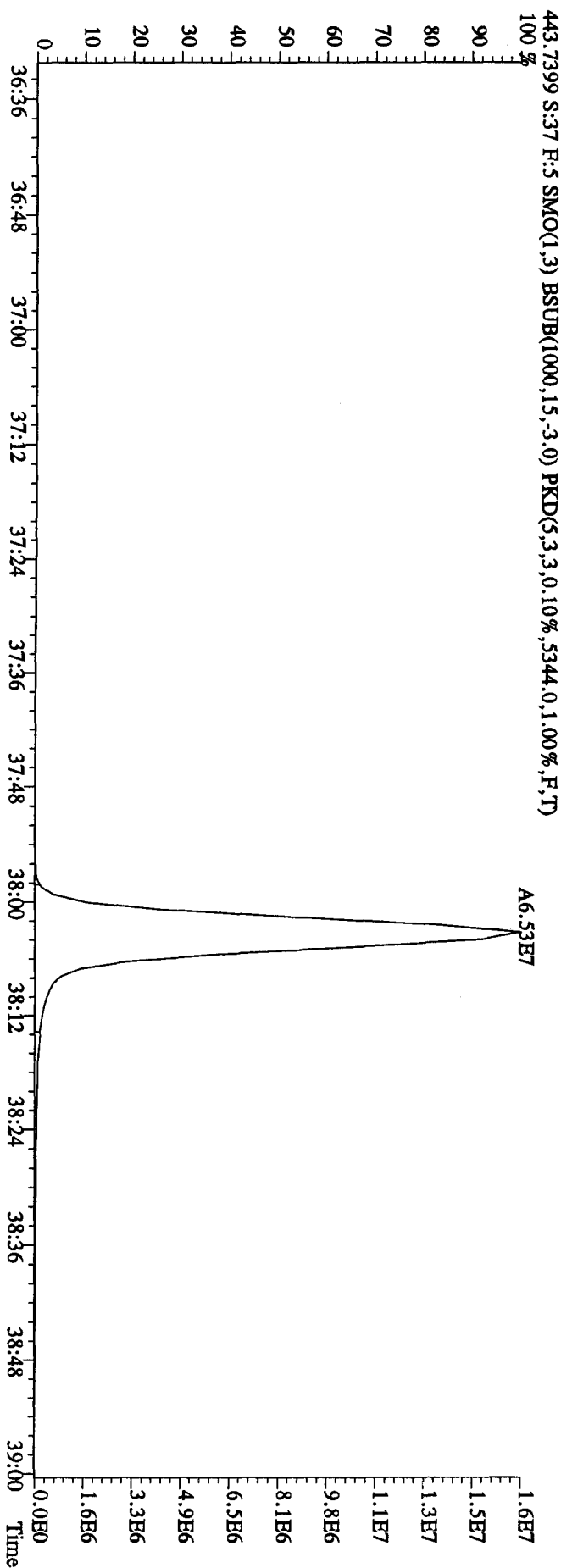
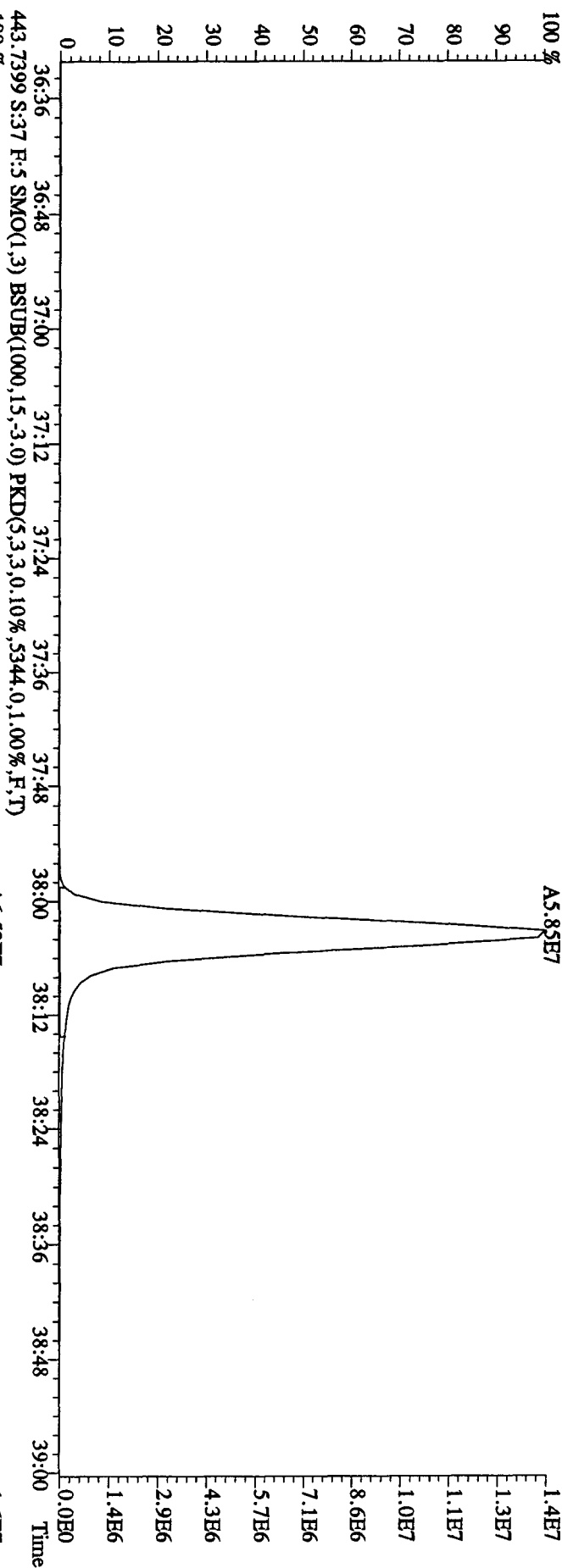




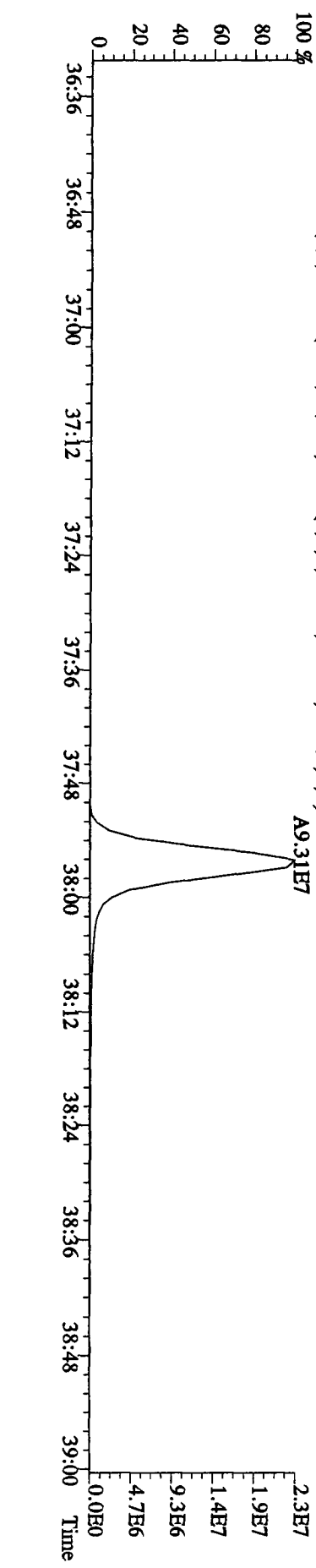
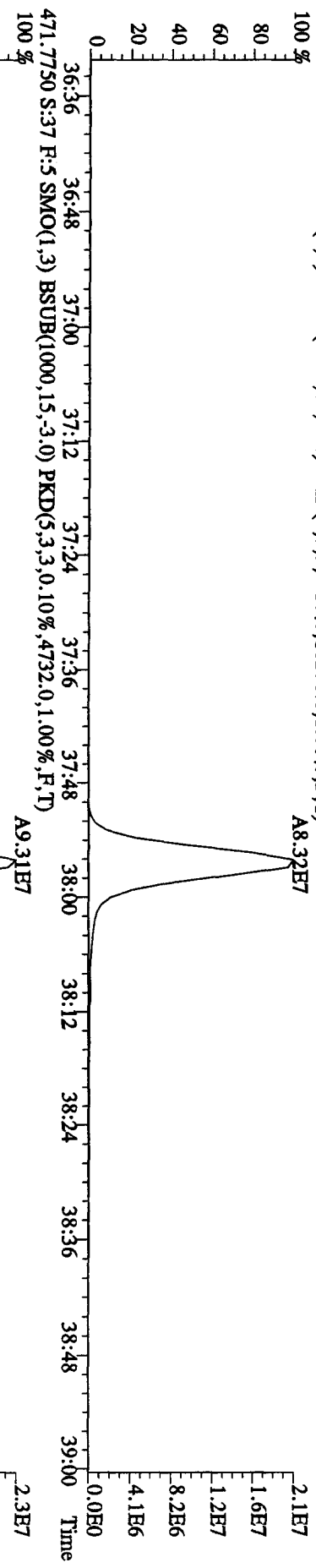
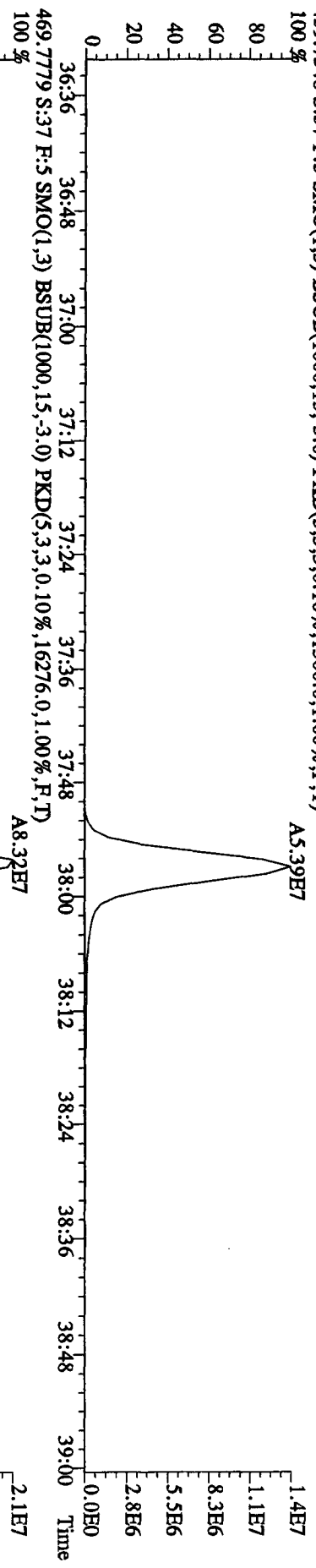
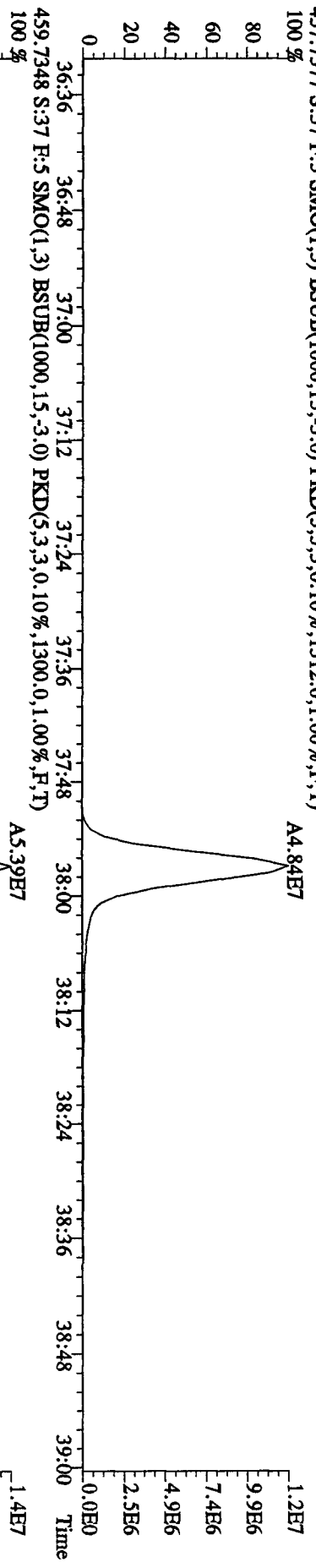
File:21API0B4D5 #1-198 Acq:22-APR-2010 23:31:28 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#37 Text:ST0421D :CS3 10DXN111 Exp.:DIOXINRES8290A  
 423.7766 S:37 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4664.0,1.00%,F,T)



File: 21AP10B4D5 #1-190 Acq: 22-APR-2010 23:31:28 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#37 Text: ST0421D :CS3 10DXN111 Exp: DIOXINRES8290A  
 441.7428 S:37 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6136,0,1.00%,F,T) 100%

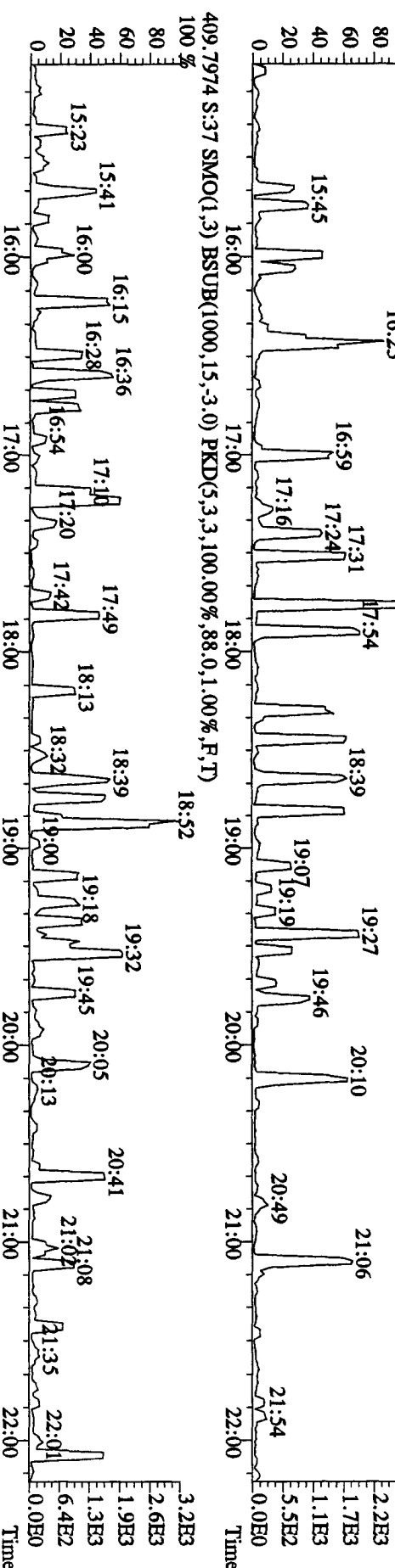
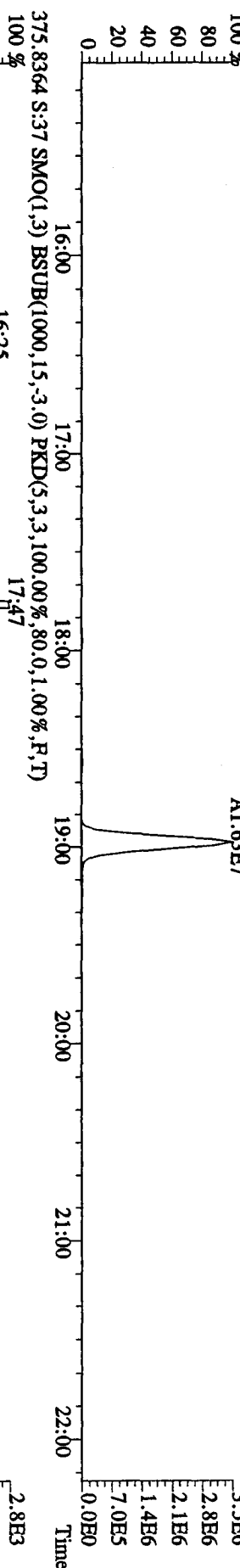
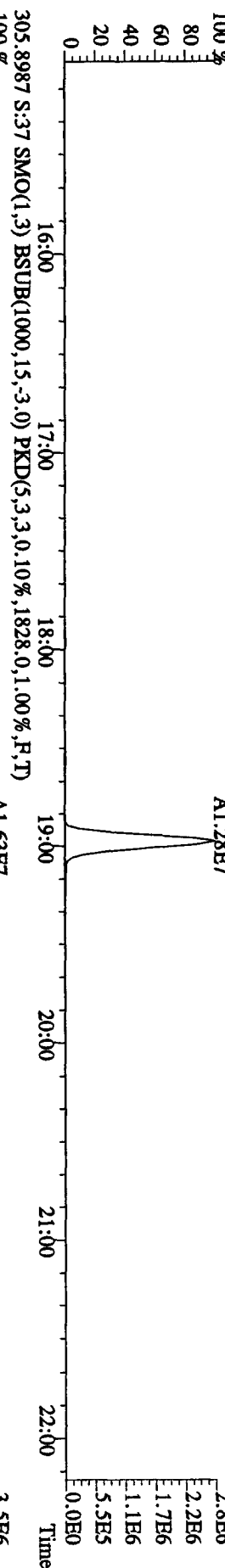
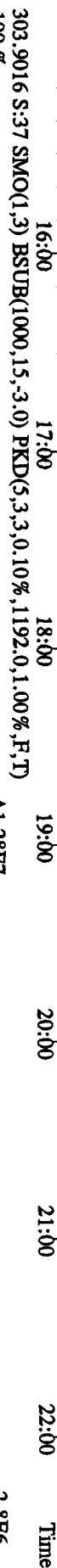
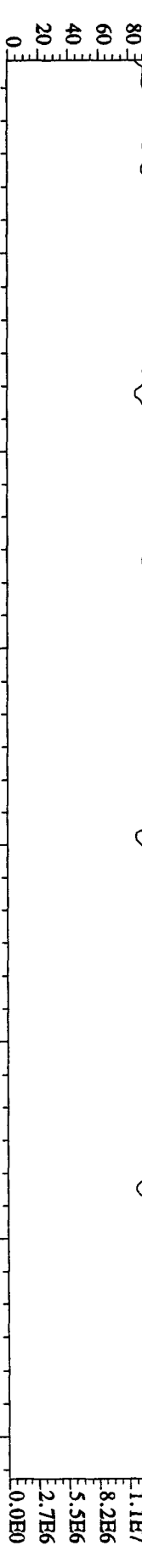


File:21API0B4D5 #1-190 Acq:22-APR-2010 23:31:28 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#37 Text:ST0421D :CS3 10DXN111 Exp:DIOXINRES8290A  
 457.7377 S:37 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1312.0,1.00%,F,T)

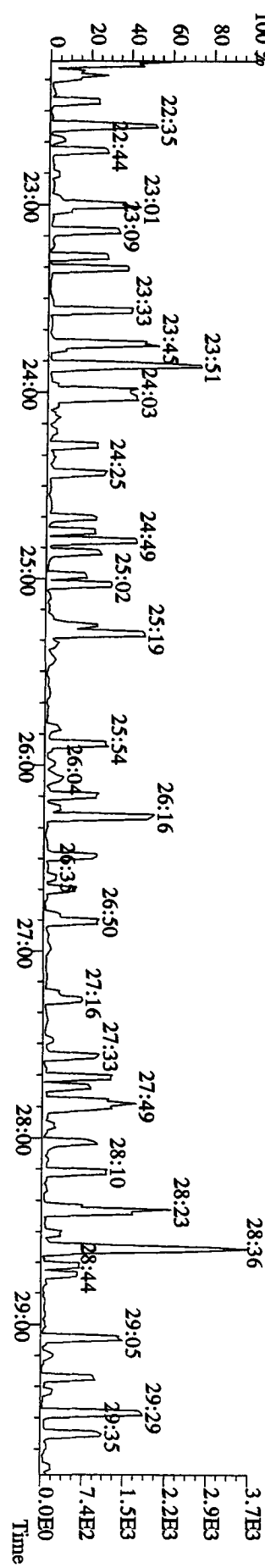
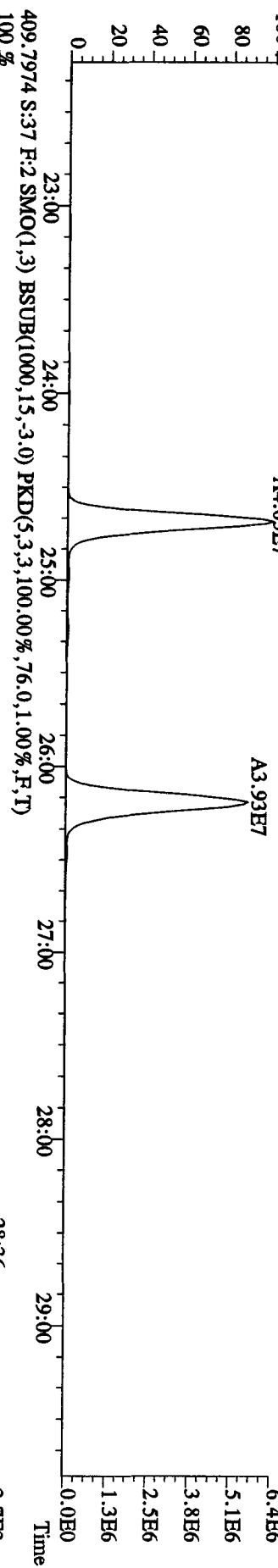
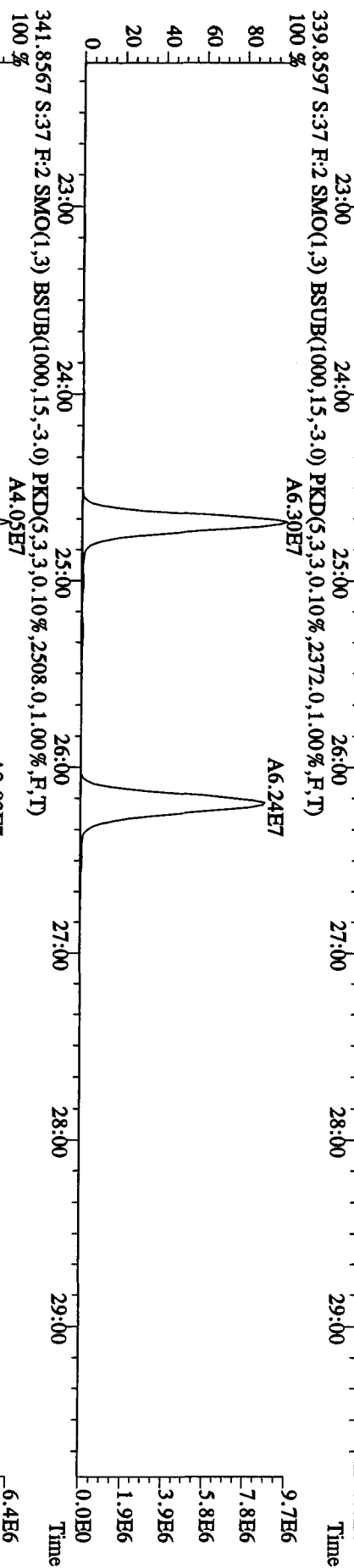
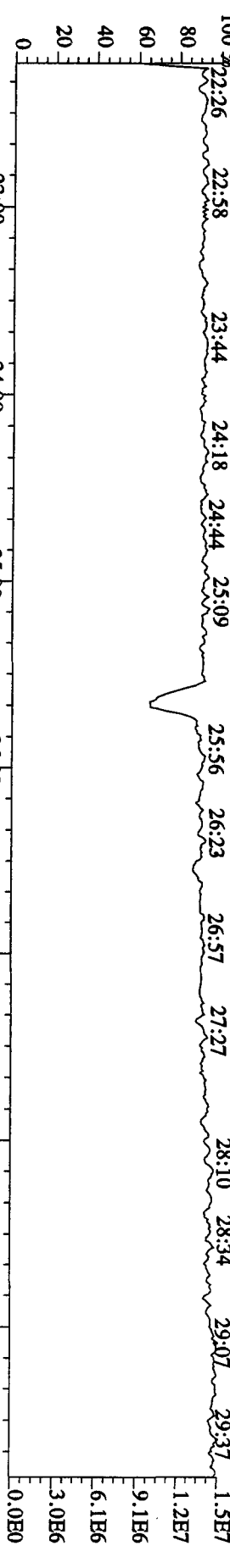


Sample#37 Text:ST0421D :CS3 10DXN111 Exp:DIOXINRES8290A

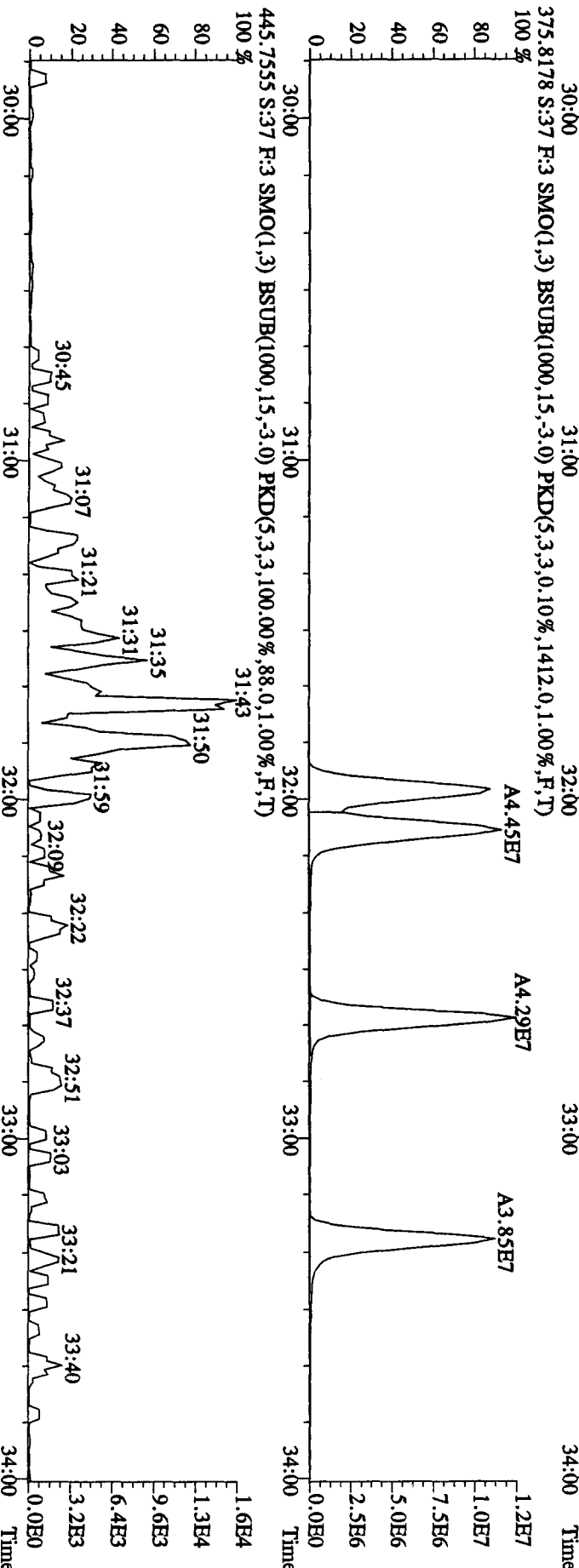
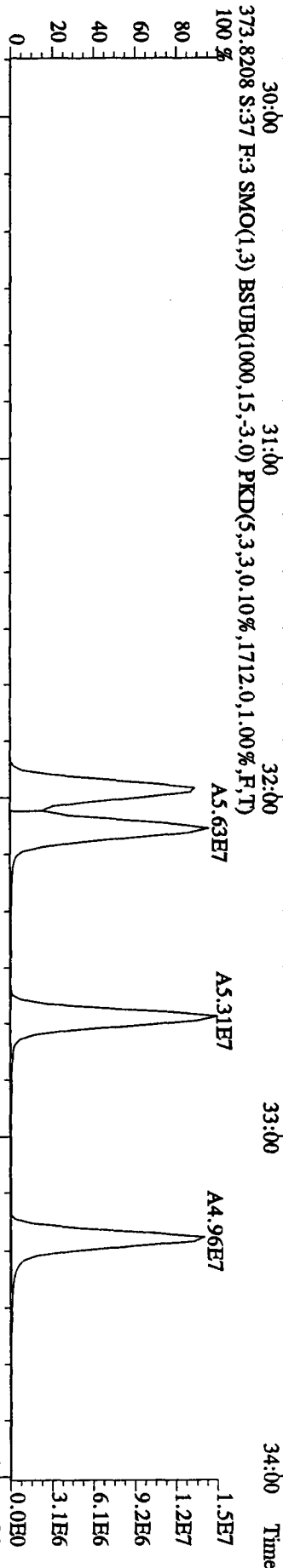
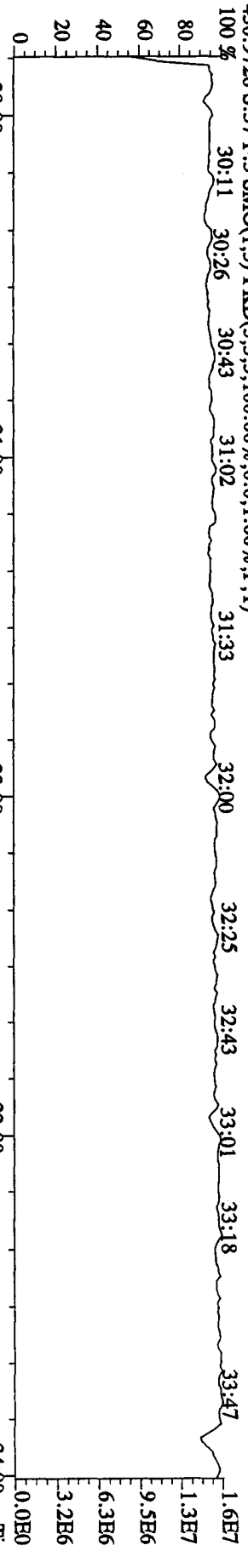
354.9792 S:37 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 15:21 15:43 16:15 16:56 17:18 17:50 18:30 18:54 19:20 19:42 20:29 20:55 21:19 21:57



File:21AP10B4D5 #1-604 Acq:22-APR-2010 23:31:28 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#37 Text:ST0421D :CS3 10DXN111 Exp:DIOXINRES8290A  
 354.9792 S:37 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



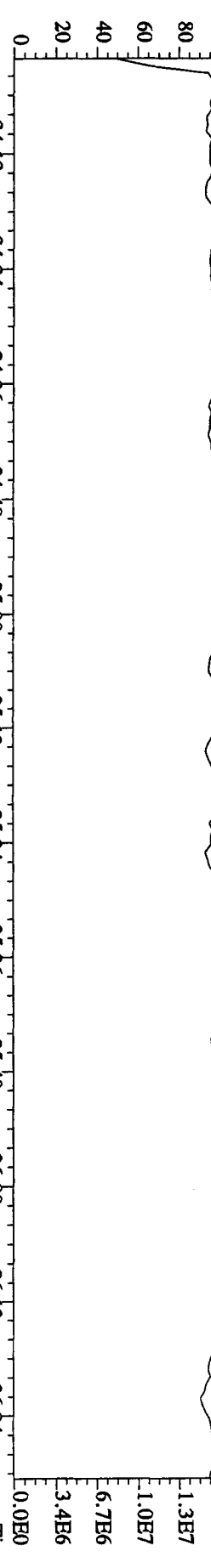
File:21API0B4D5 #1-317 Acq:22-APR-2010 23:31:28 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#37 Text:ST0421D :CS3 10DXN111 Exp:DIOXINRES8290A



File: 21AP10B4D5 #1-198 Acq: 22-APR-2010 23:31:28 GC EI+ Voltage SIR Autospec-UltimaE

Sample#37 Text: ST0421D :CS3 10DXN111 Exp: DIOXINRES8290A

430.9728 S:37 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



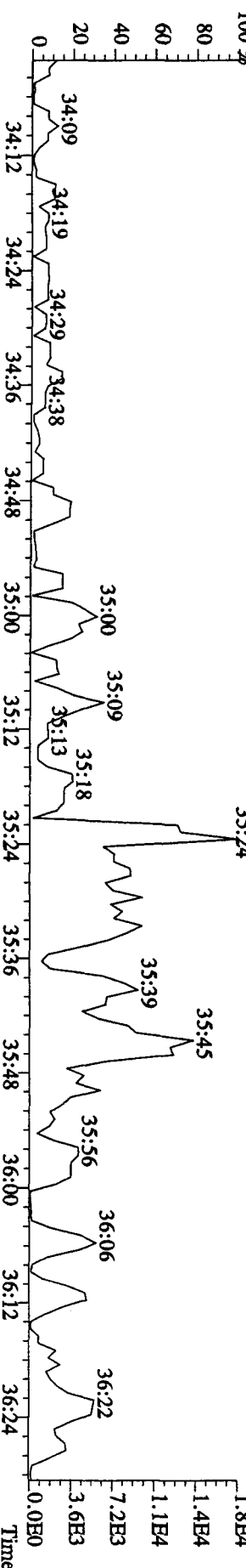
407.7818 S:37 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,10996,0,1.00%,F,T)



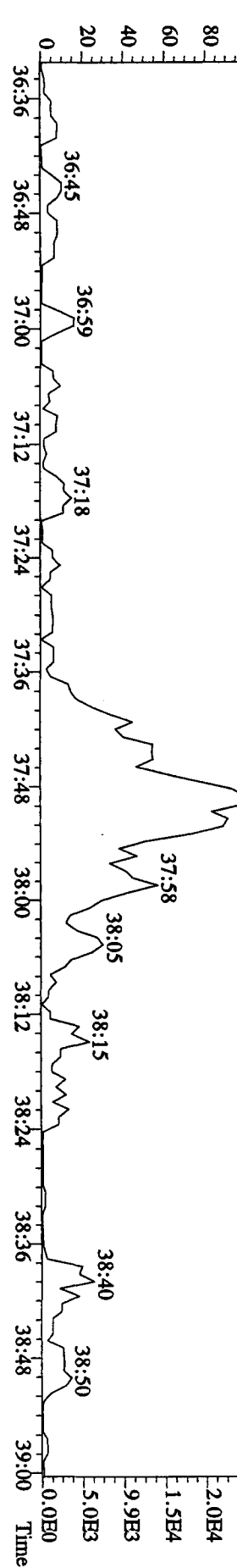
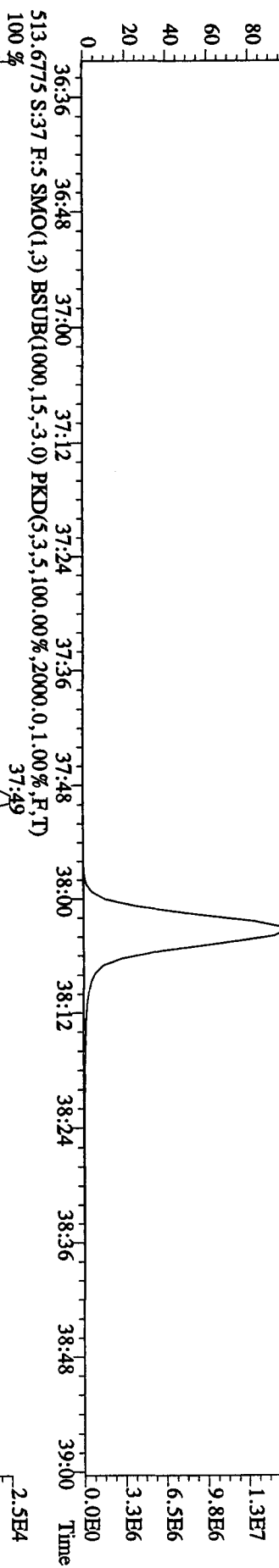
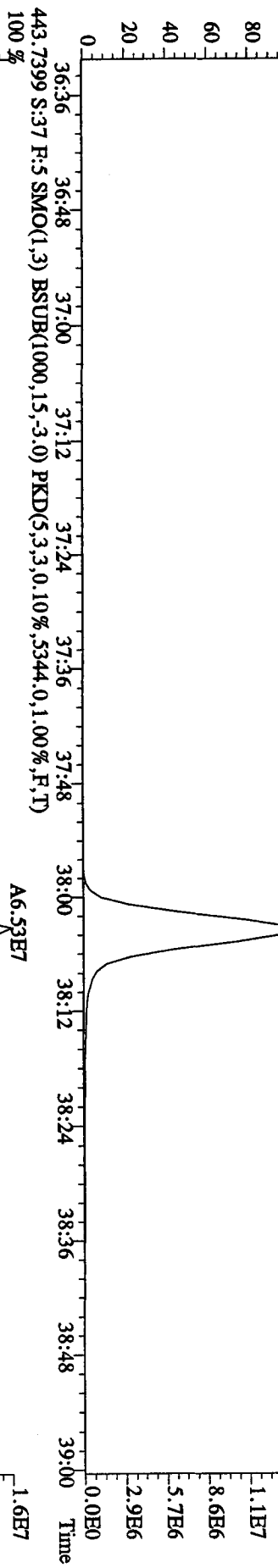
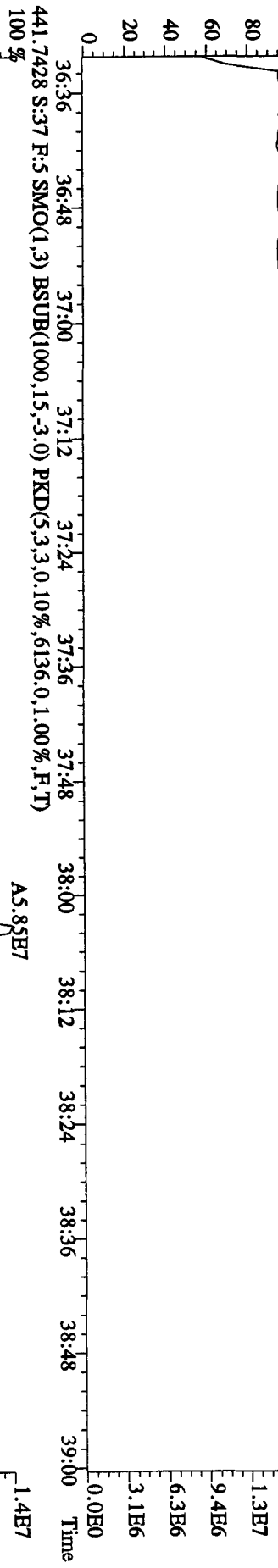
409.7789 S:37 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,13768,0,1.00%,F,T)



479.7165 S:37 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,3852,0,1.00%,F,T)



File:21AP10B4D5 #1-190 Acq:22-APR-2010 23:31:28 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#37 Text:ST0421D :CS3 10DXN111 Exp:DIOXINRES8290A  
 442.9728 S:37 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 36:43 37:03 37:20 37:30 37:46 38:06 38:16 38:26 38:36 38:53





## *Initial Calibration*

*Includes (as applicable):*

*runlog*

*standard raw data*

*statistical summary*

*ms tune data*

## Initial Calibration Checklist Dioxin Methods

ICAL ID 8290A041210405

Method ID 8290A Date Scanned \_\_\_\_\_

Column ID DB5 Instrument ID 405

STD ID's ST0412(B,A, -, D,C) STD Solution 09DXN422, 09DXN422, 10DXN111, 09DXN424, 09DXN456

GC Program OCDD Multiplier Setting 410

Analyzed By M.G. Date Analyzed 4/12/10

Prepared By M.G. Date Prepared 4/17/10

Reviewed By MAT Date 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:

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\*Method 8290/TO9/M0023A: %RSD ≤20% for natives, ≤30% for labeled compounds; S/N ≥10  
 Method 1613B: %RSD ≤ 20% natives, ≤30% labeled compounds; S/N ≥10  
 Method 23: %RSD ≤ values specified in Table 5, Method 23; S/N ≥ 2.5

Run: 12AP104D5 Analyte: 8290A Cal: 8290A0412104D5

ST0412B : CS-1 09DXN422 ST0412A : CS-2 09DXN423 ST0412 : CS-3 10DXN111  
 ST0412D : CS-4 09DXN426 ST0412C : CS-5 09DXN456

12AP104D5 12AP104D5 12AP104D5 12AP104D5 12AP104D5

Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	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
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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	-	-	- %	-	-	-	-	-
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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	1.11
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
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

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-TCDD	141013400	0.83 y	19:54	0.8723	100.00	n
2,3,7,8-TCDD	2761520	0.74 y	19:55	0.9792	2.00	n
Total TCDD	-	- 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	Resp	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	Resp	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	

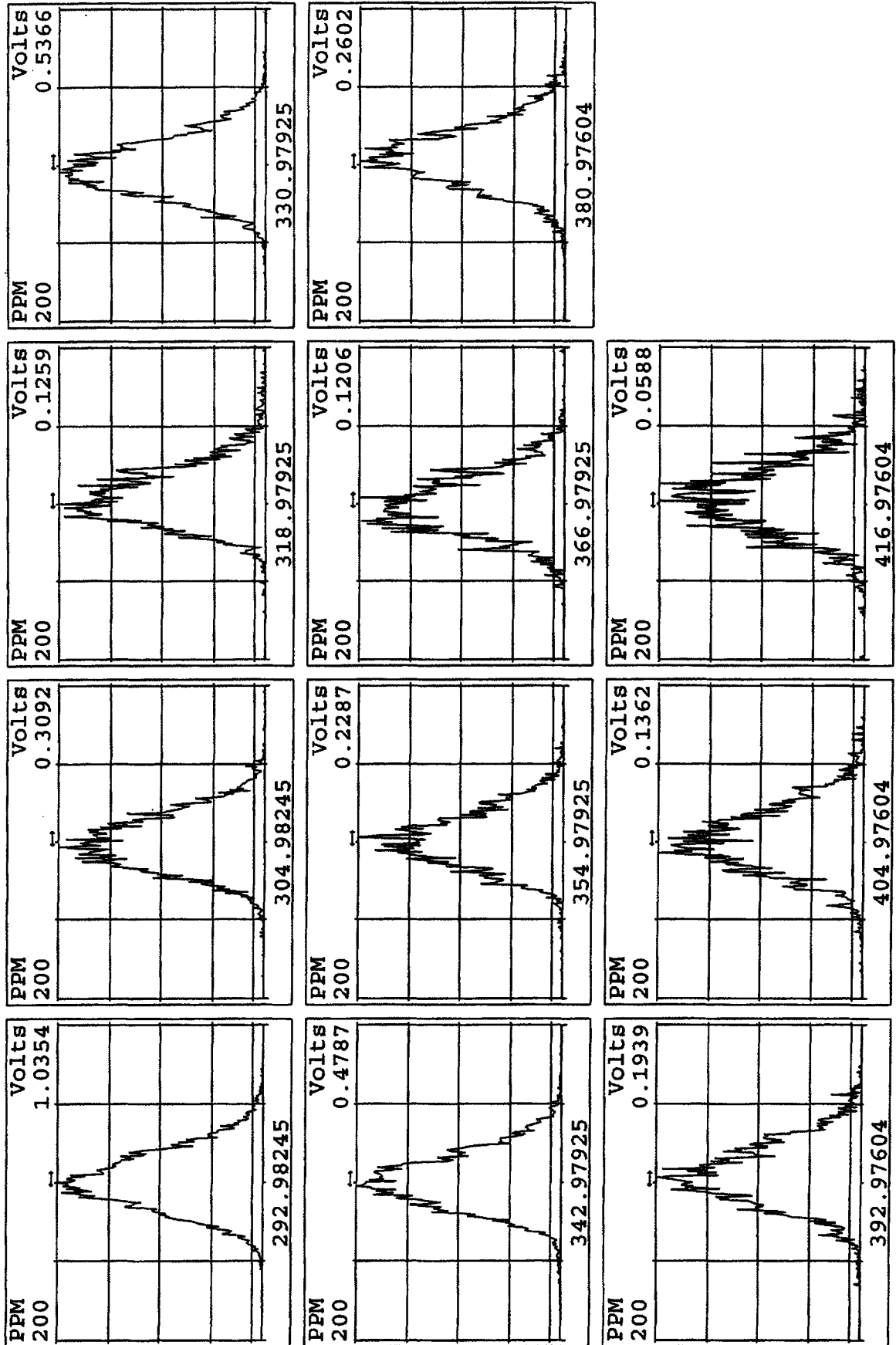
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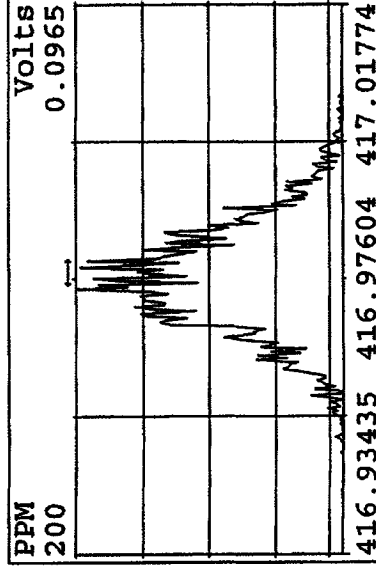
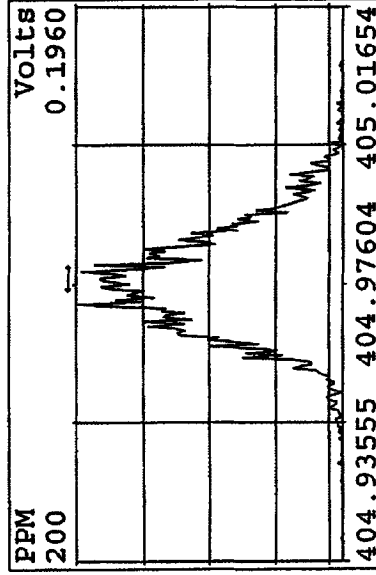
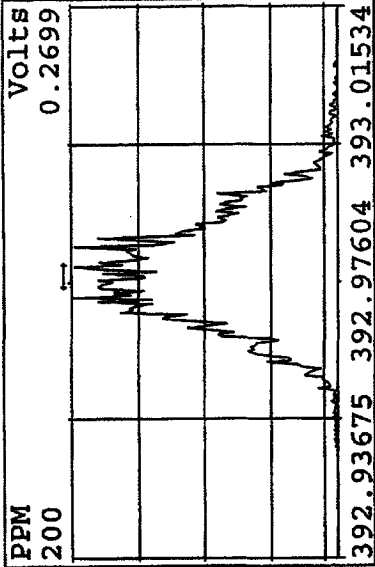
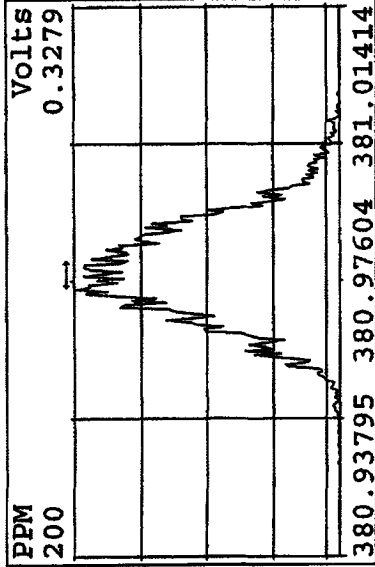
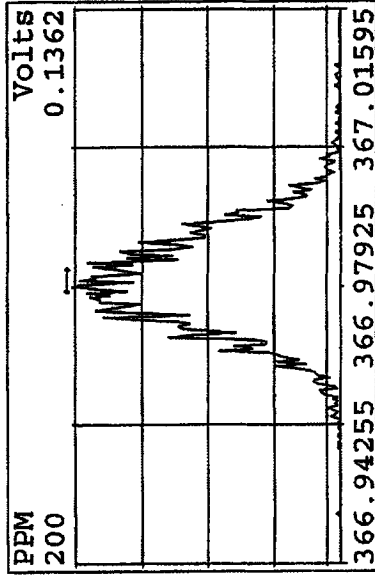
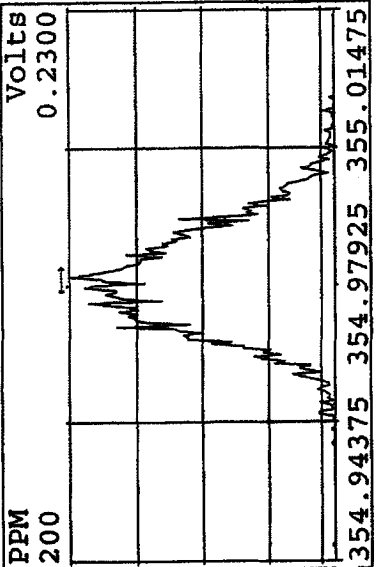
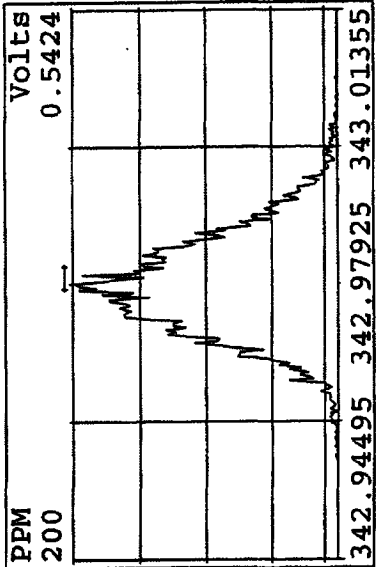
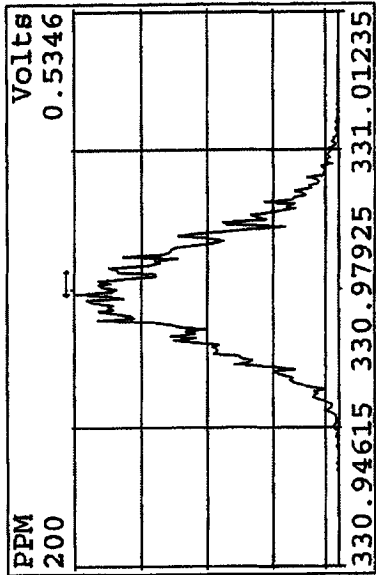
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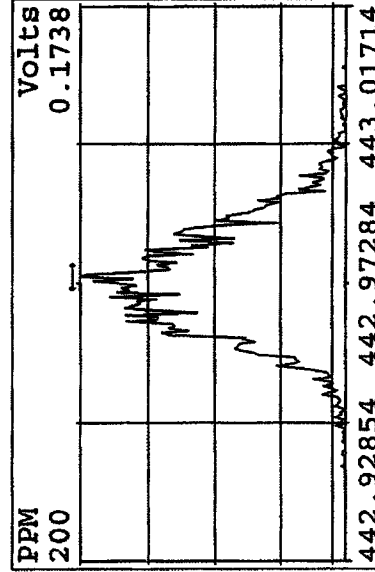
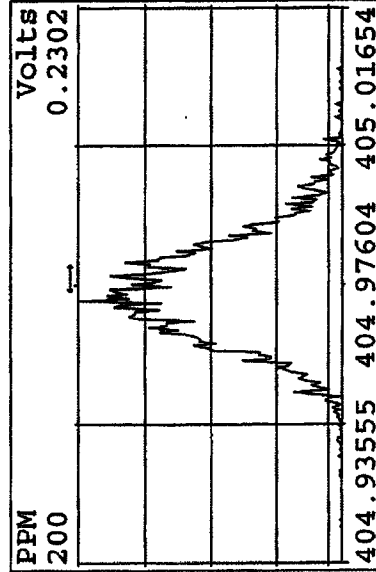
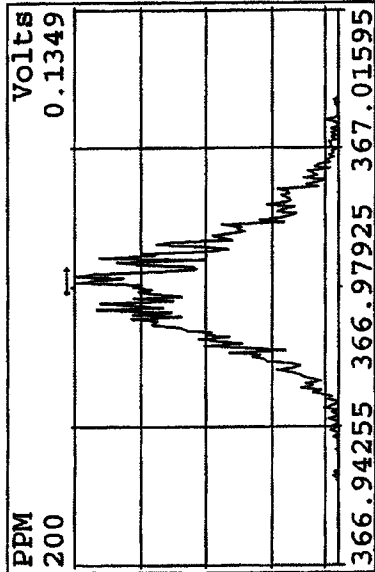
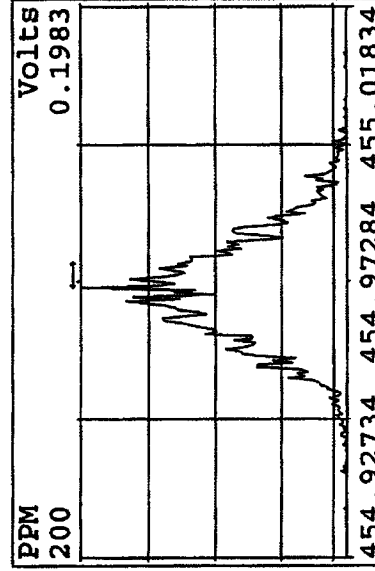
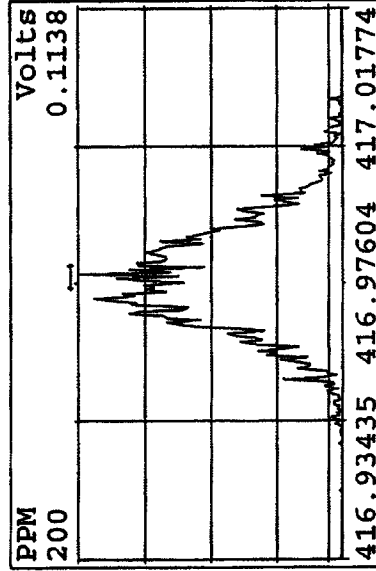
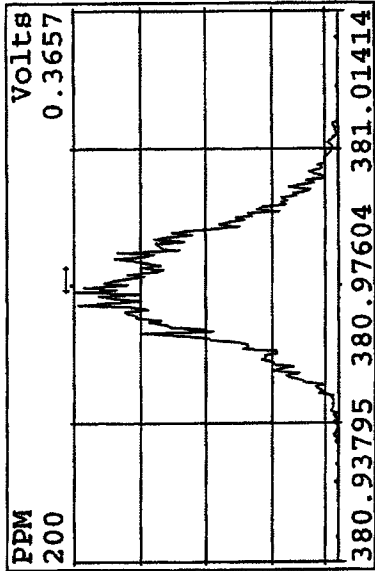
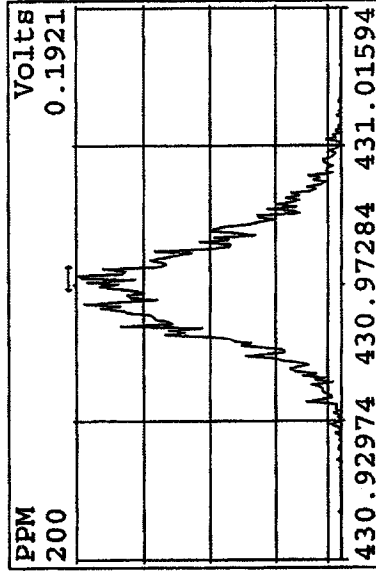
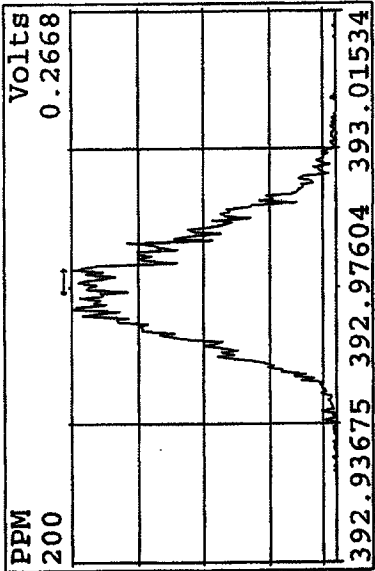
Peak Locate Examination:12-APR-2010:08:26 File:12AP104D5  
 Experiment:DIOXINRES8290A Function:1 Reference:PFK



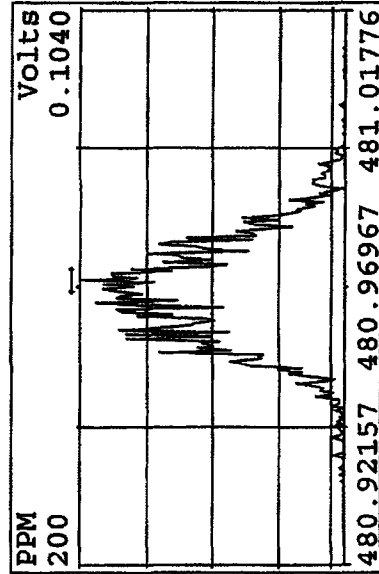
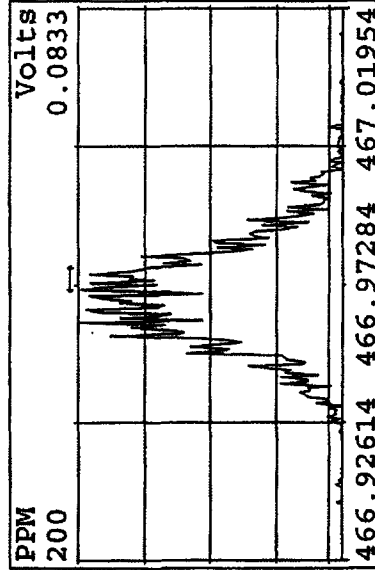
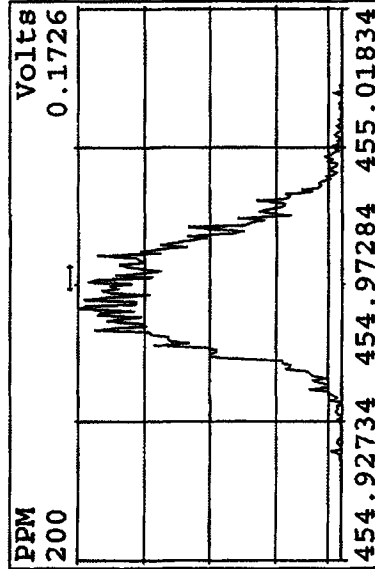
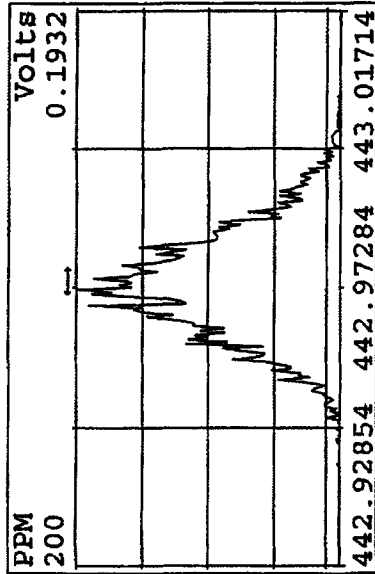
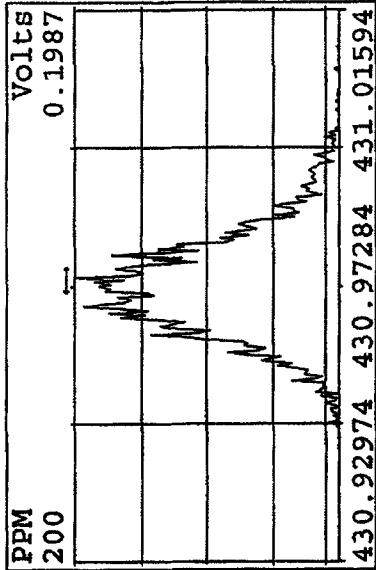
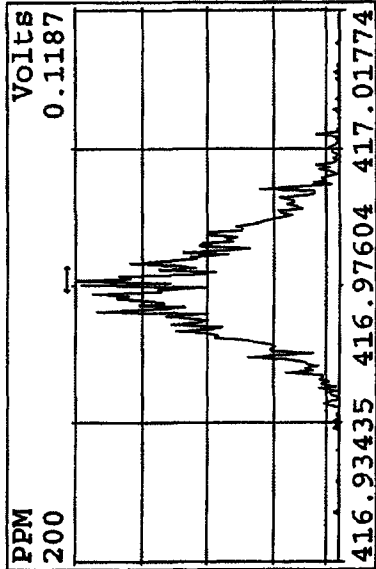
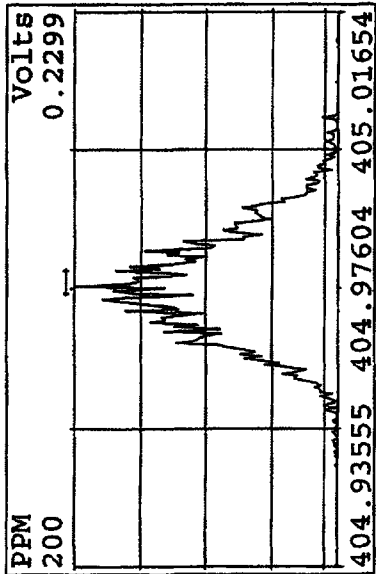
Peak Locate Examination: 12-APR-2010:08:26 File: 12AP104D5  
 Experiment: DIOXINRES8290A Function: 2 Reference: PFK



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

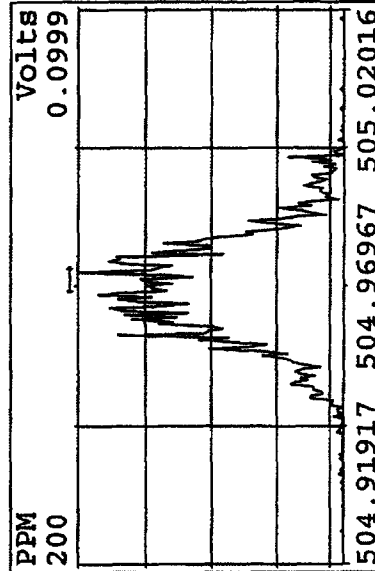
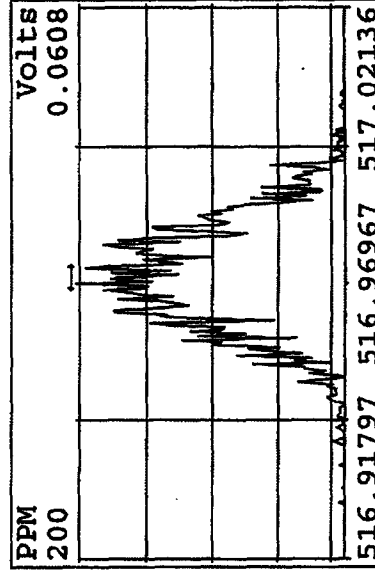
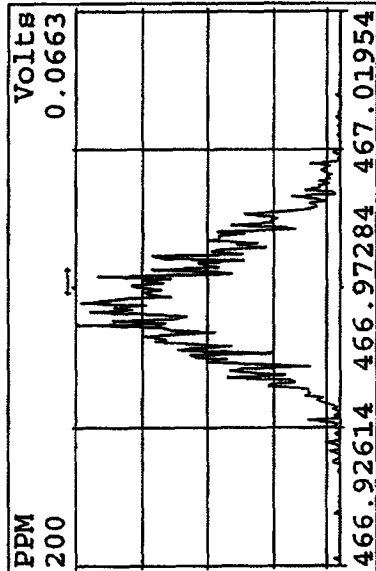
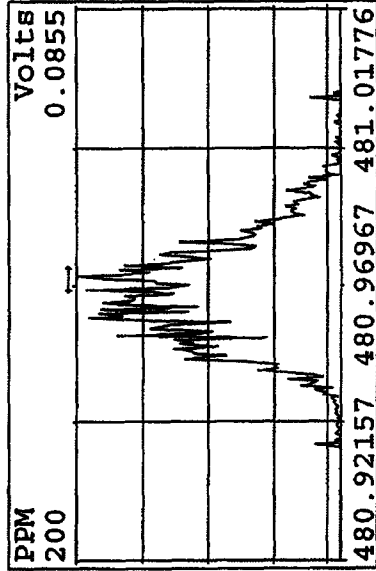
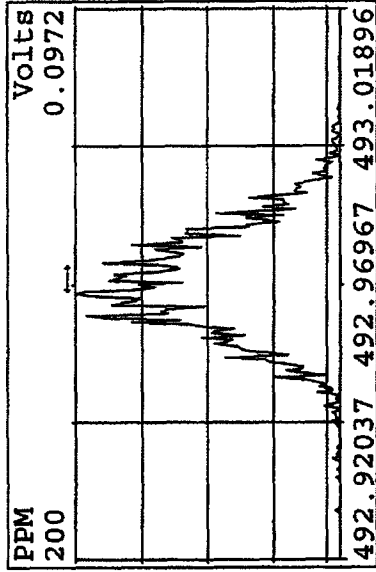
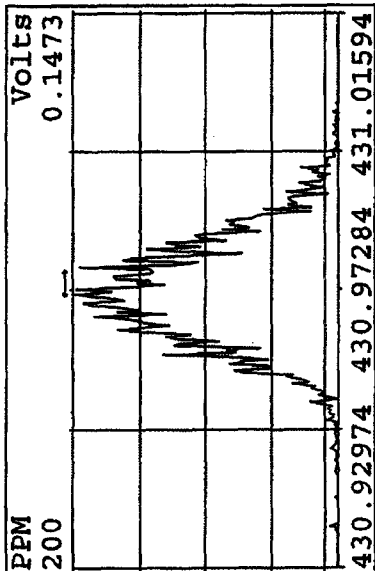
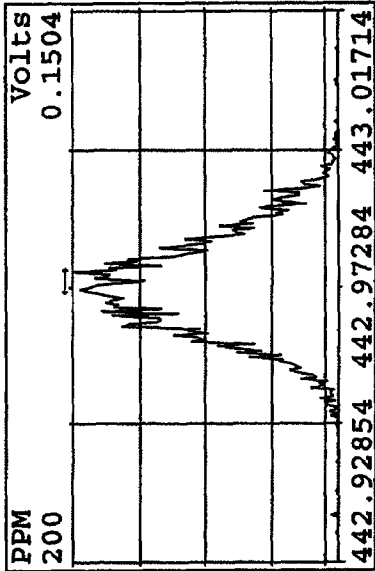
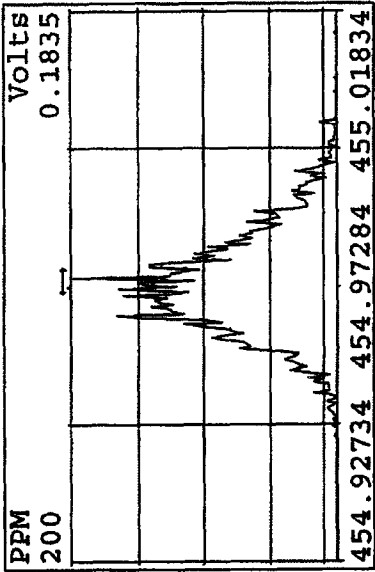


Peak Locate Examination: 12-APR-2010:08:27 File: 12AP104D5  
 Experiment: DIOXINRES8290A Function: 4 Reference: PFK

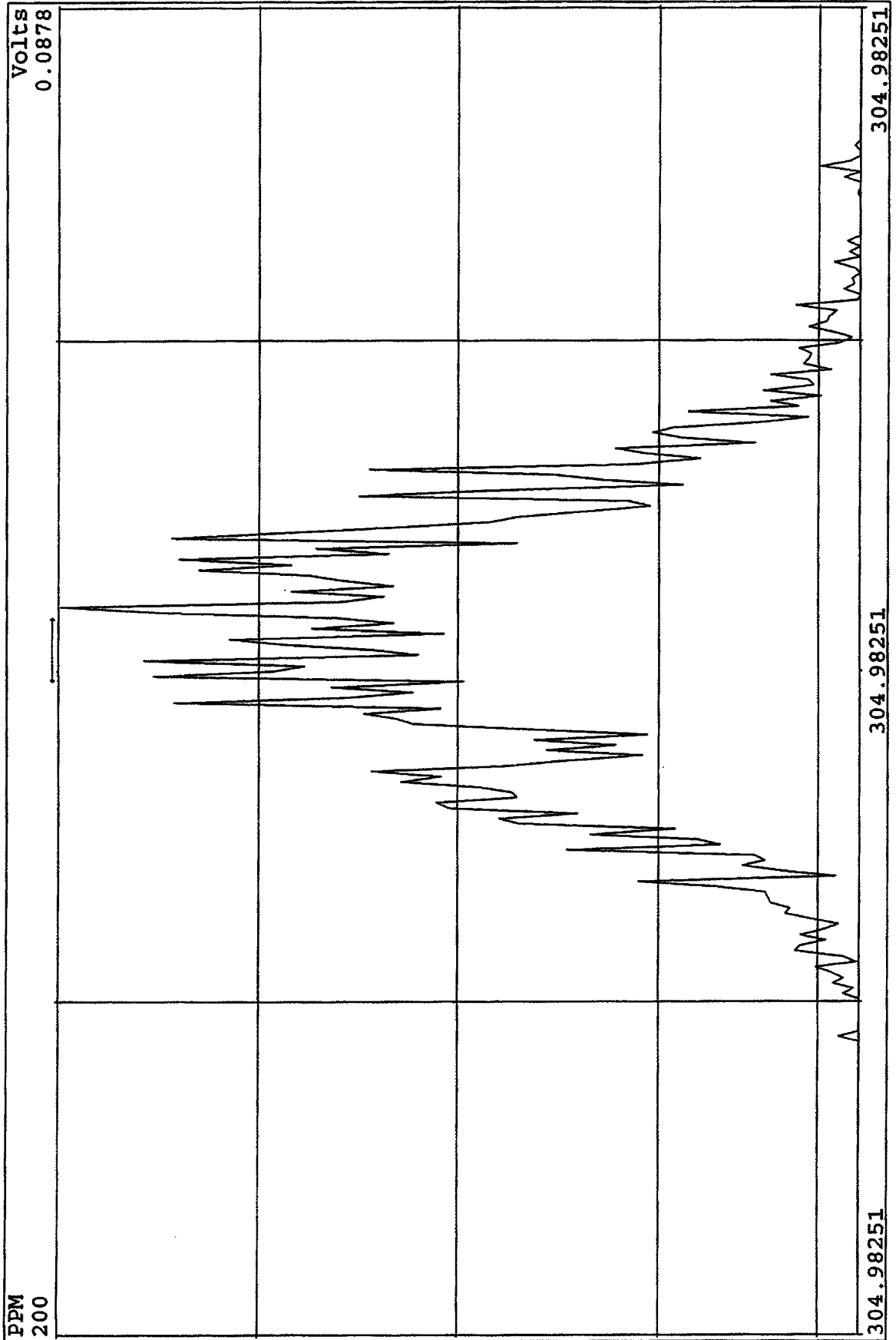




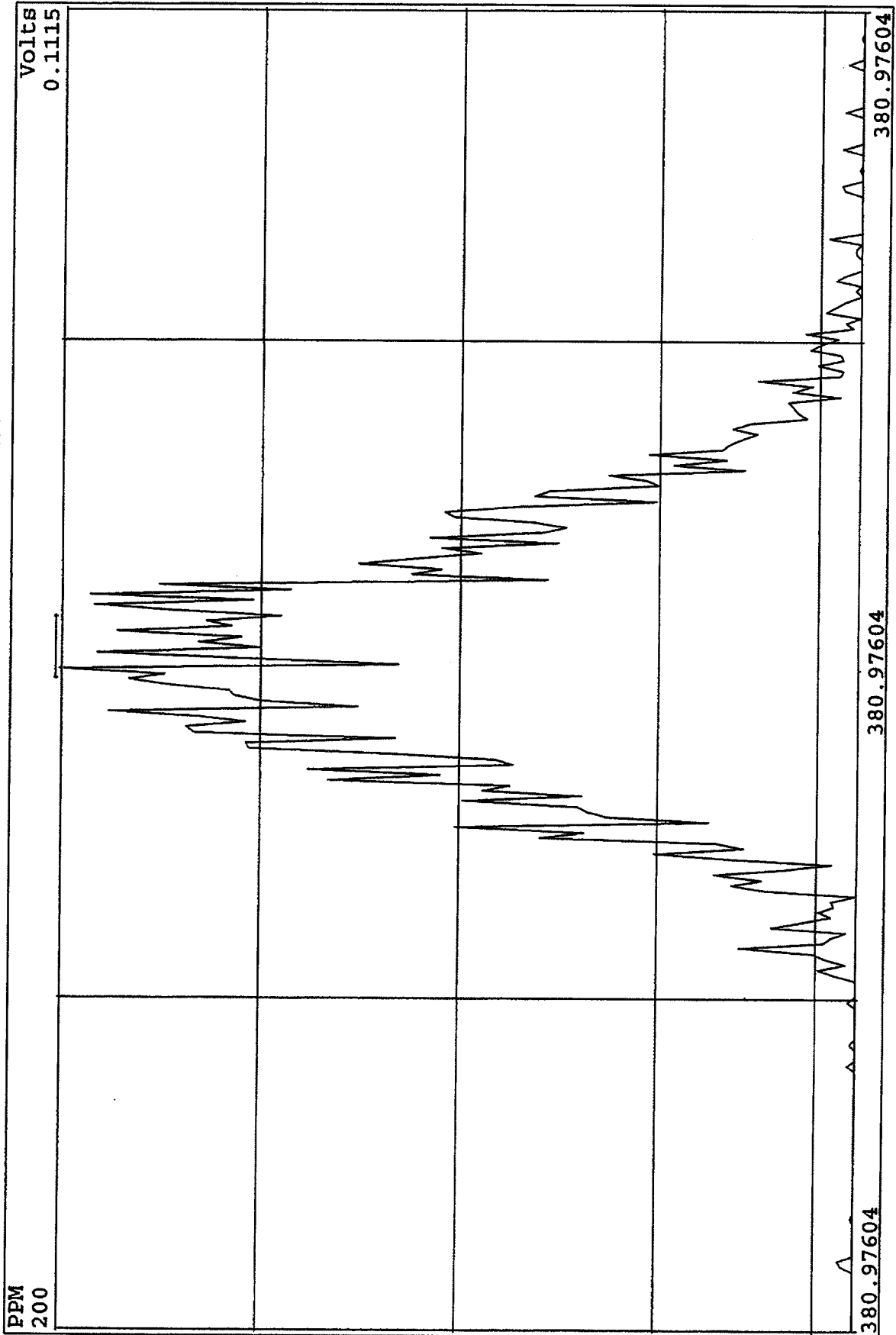
Peak Locate Examination:12-APR-2010:08:28 File:12AP104D5  
Experiment:DIOXINRES8290A Function:5 Reference:PFK



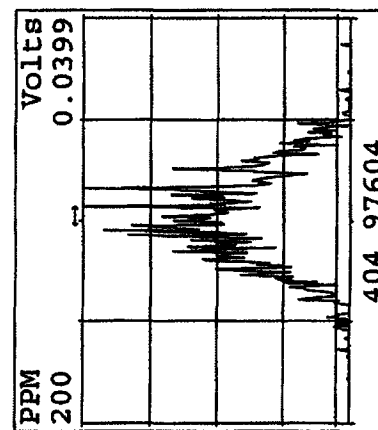
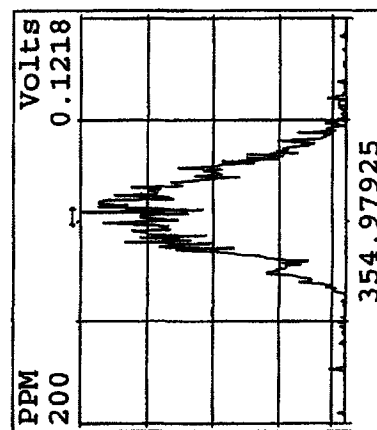
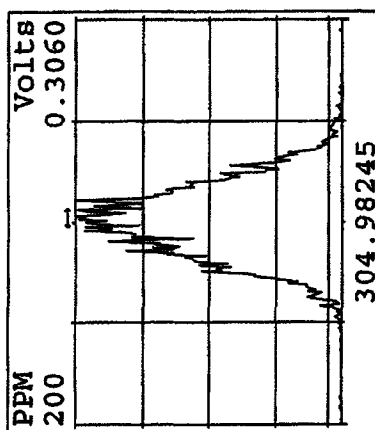
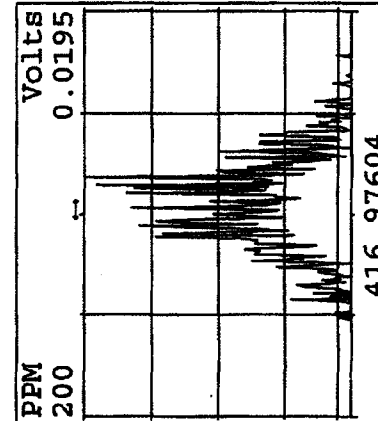
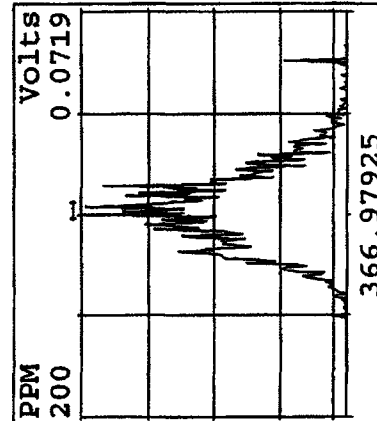
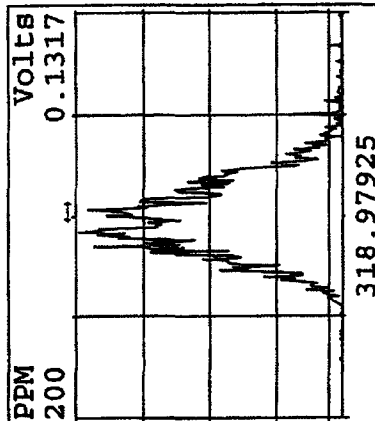
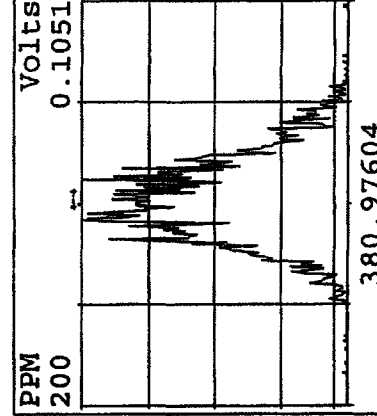
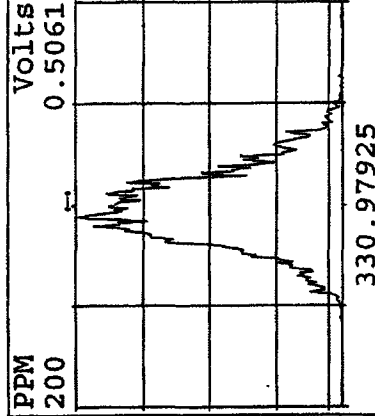
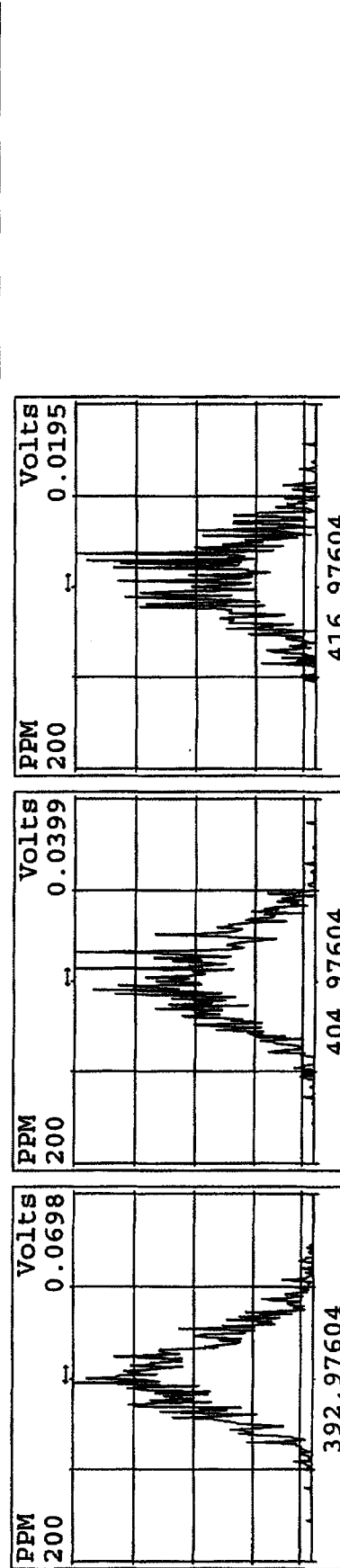
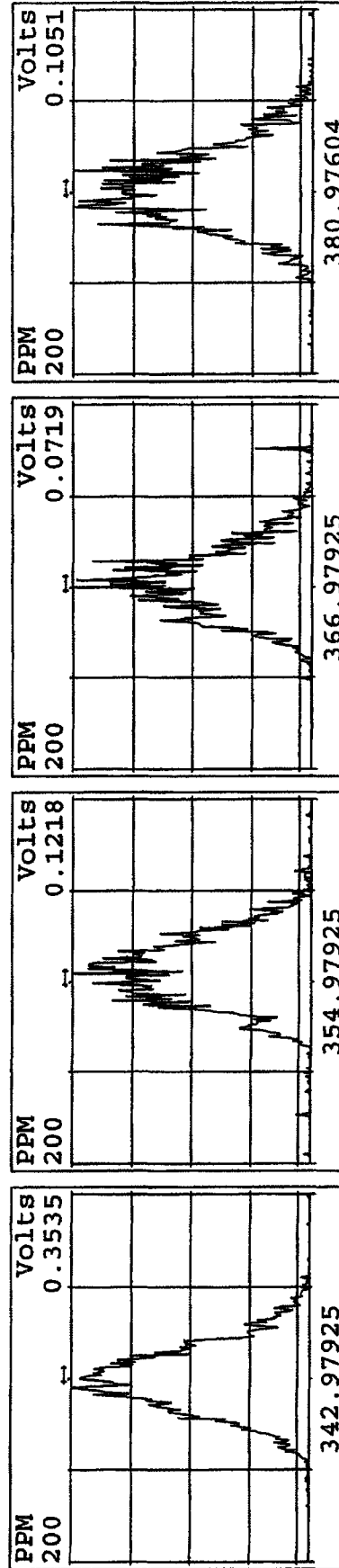
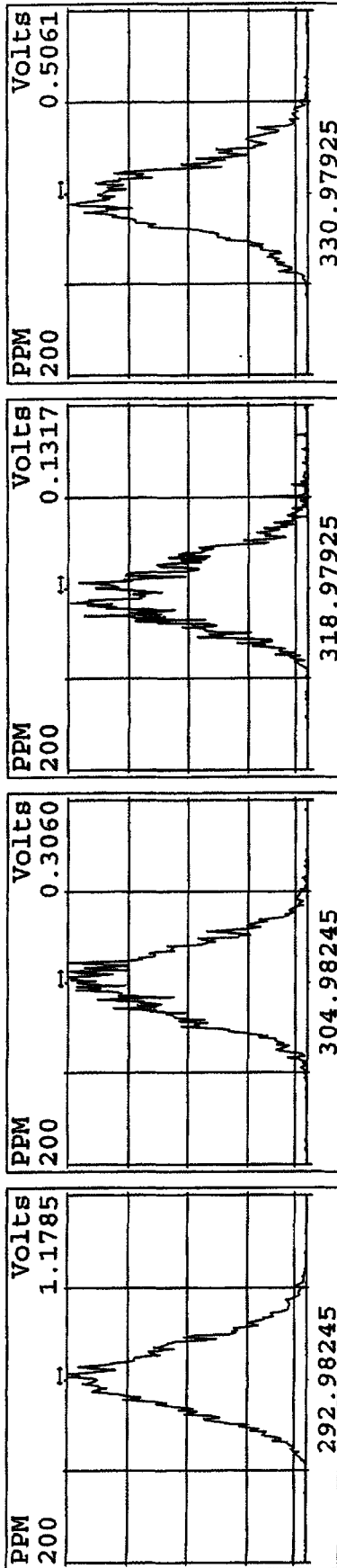
SIRLM Examination: 12-APR-2010: 14:26 File: 12AP104D5  
Experiment: DIOXINRES8290A Function: 7



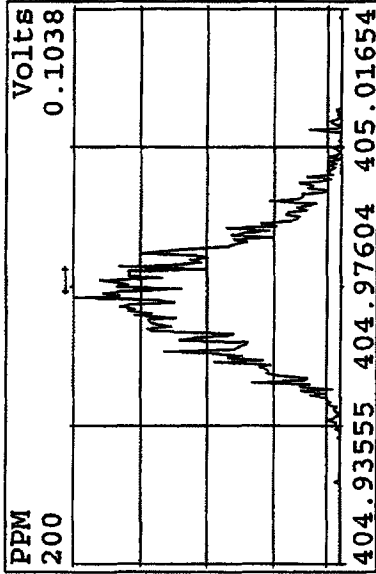
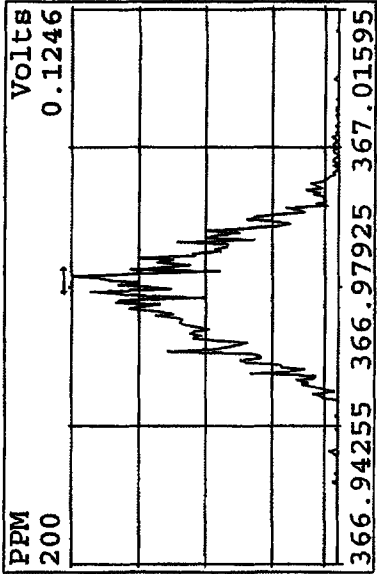
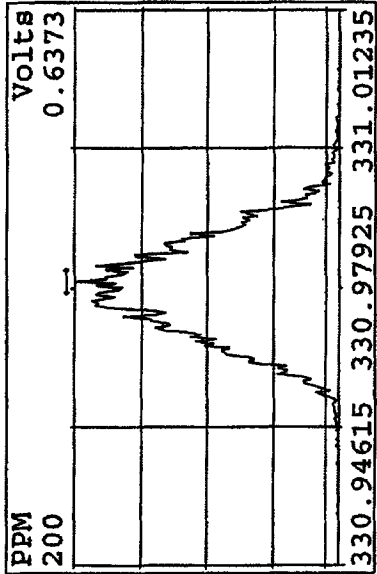
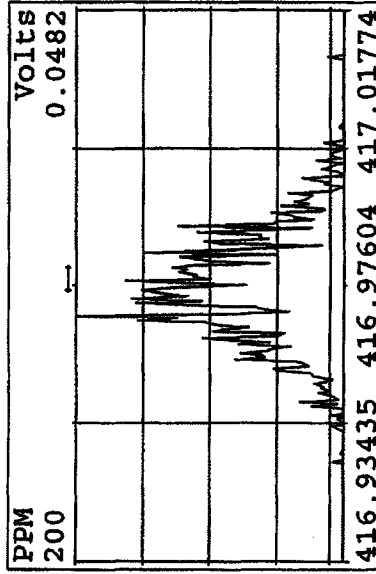
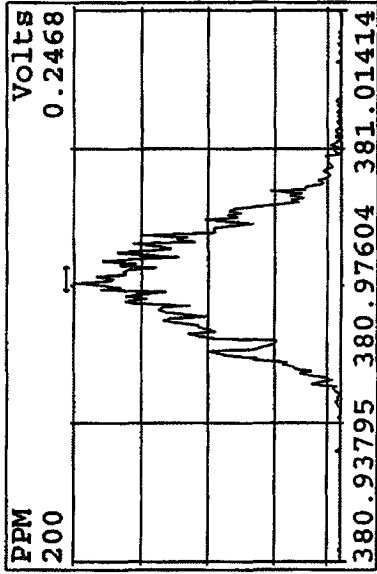
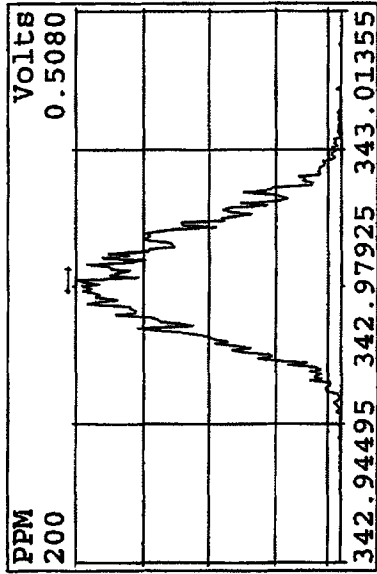
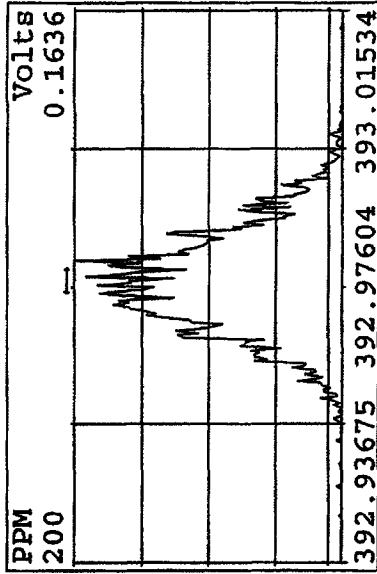
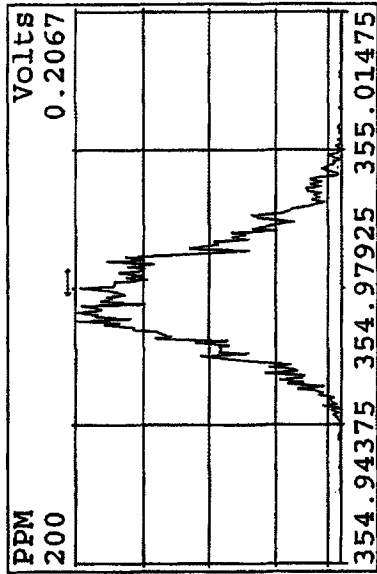
SIRLM Examination: 12-APR-2010:14:25 File: 12AP104D5  
Experiment: DIOXINRES8290A Function: 6



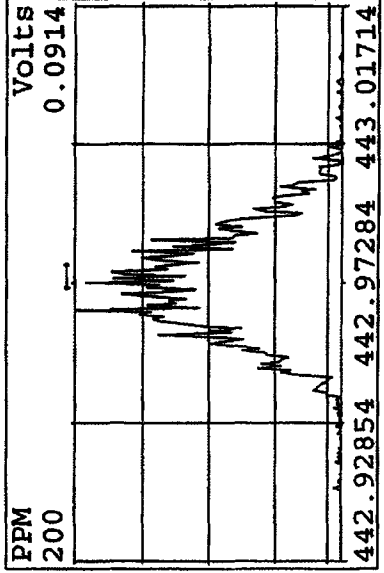
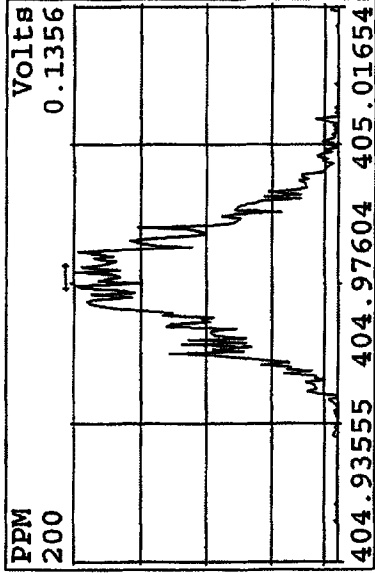
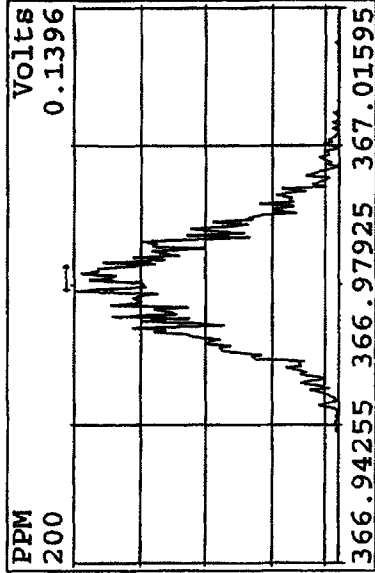
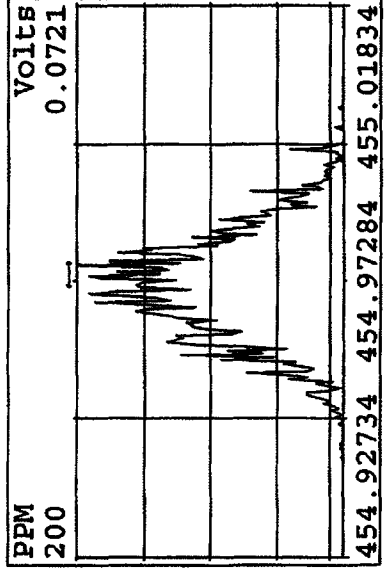
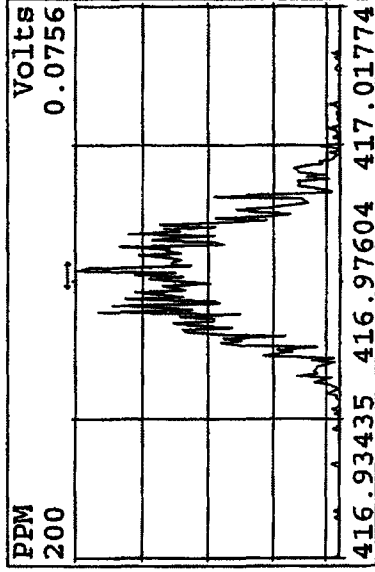
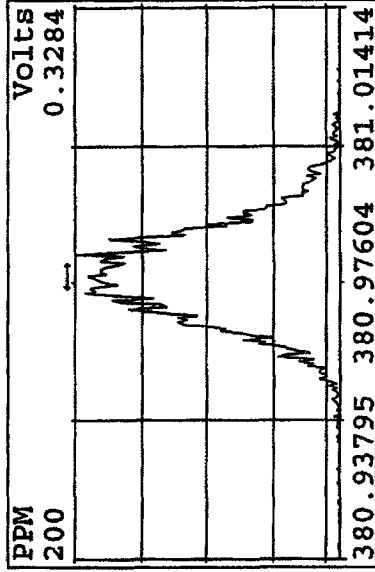
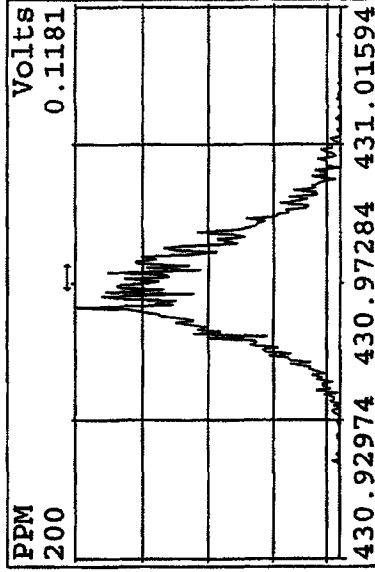
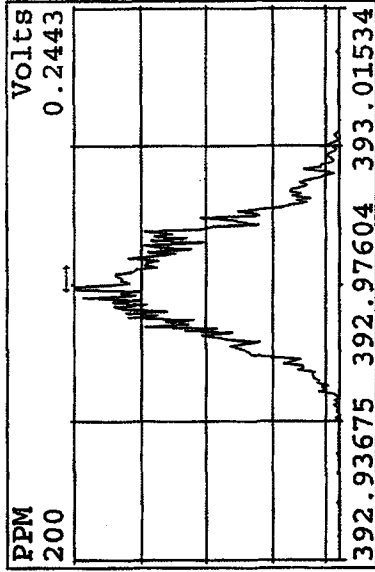
Peak Locate Examination:14-APR-2010:00:00 File:RESCHK12AP104D5  
Experiment:DIOXINRES8290A Function:1 Reference:PFK



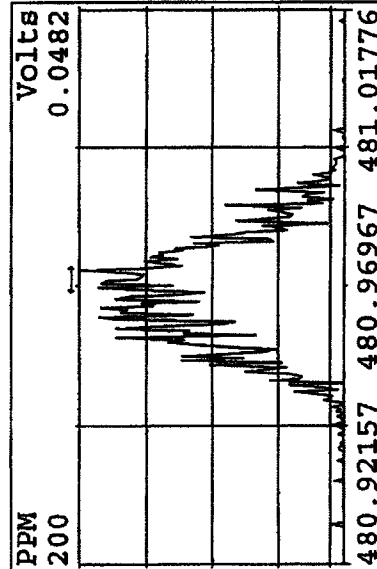
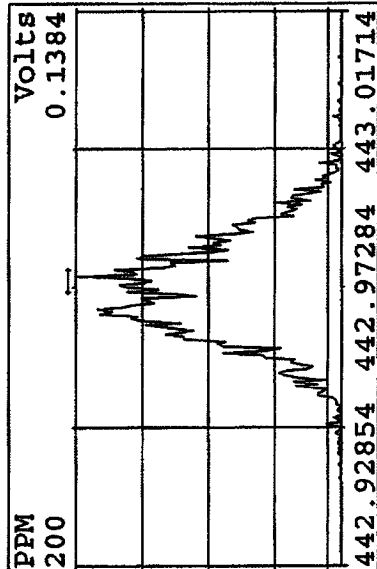
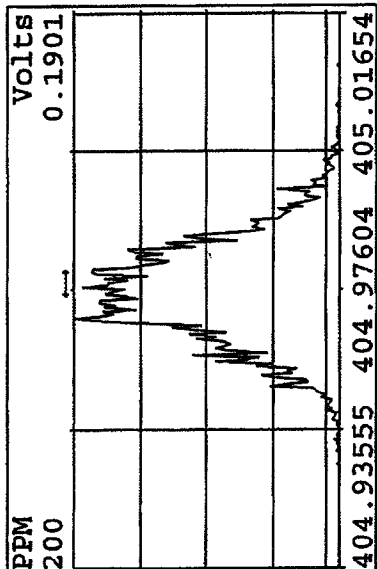
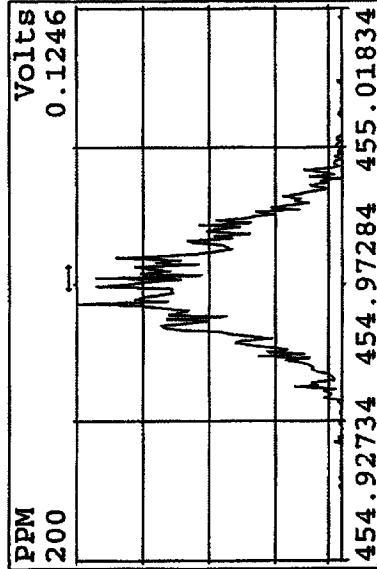
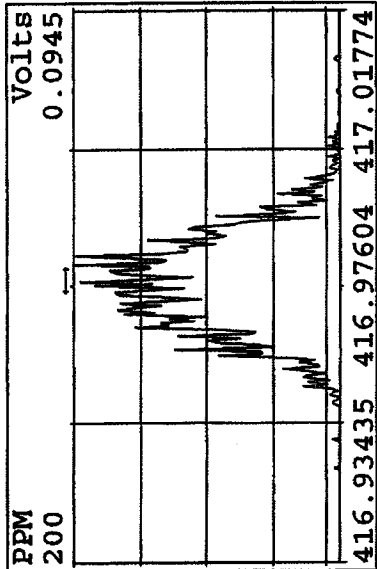
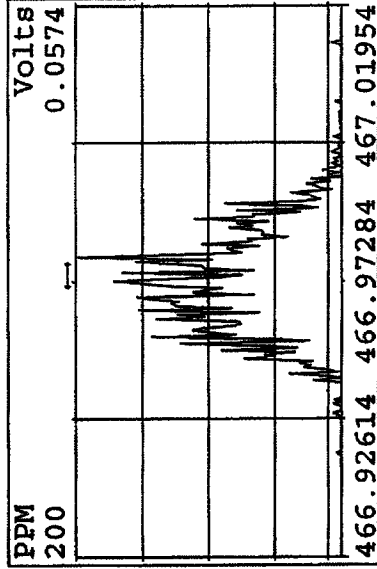
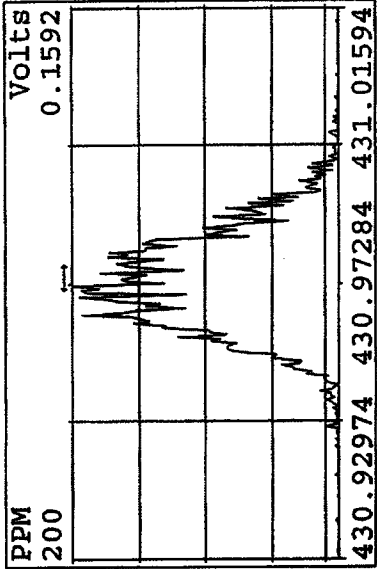
Peak Locate Examination: 14-APR-2010:00:01 File: RESCHK12AP104D5  
 Experiment: DIOXINRES8290A Function: 2 Reference: PFK



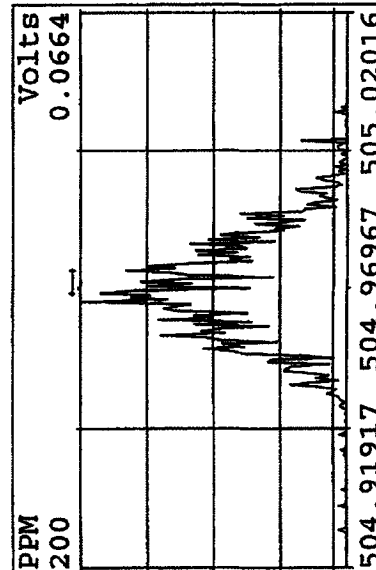
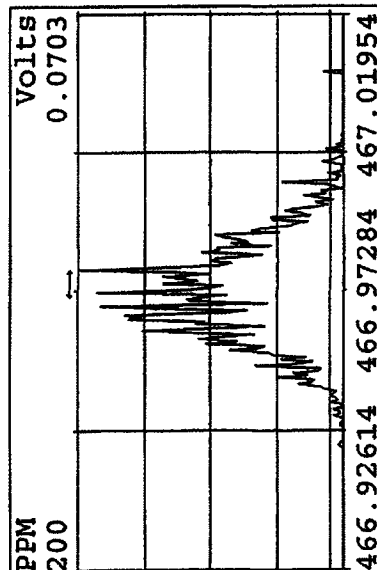
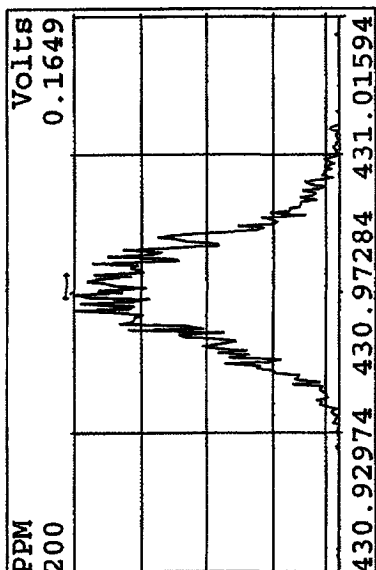
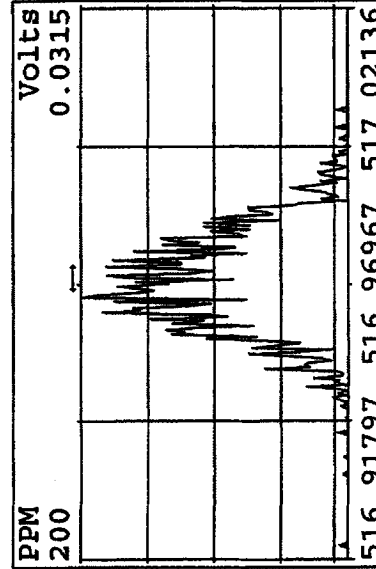
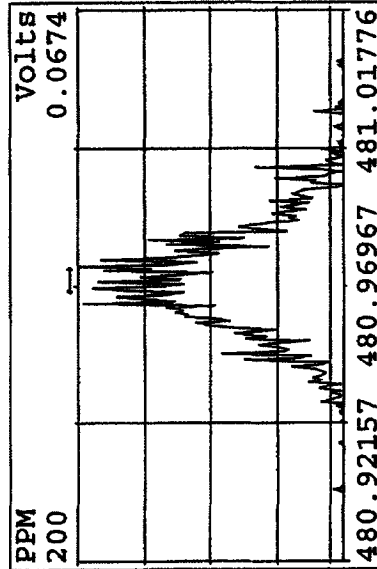
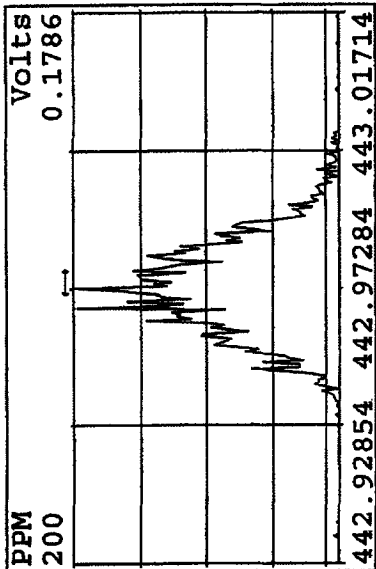
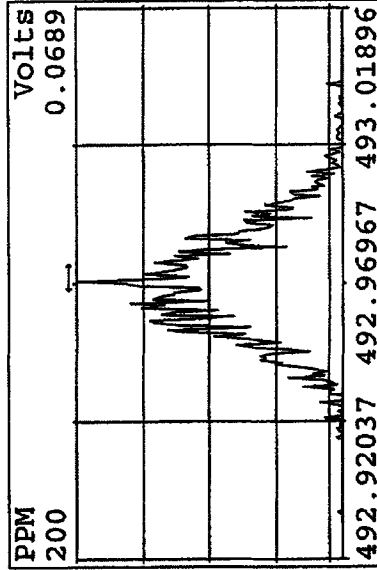
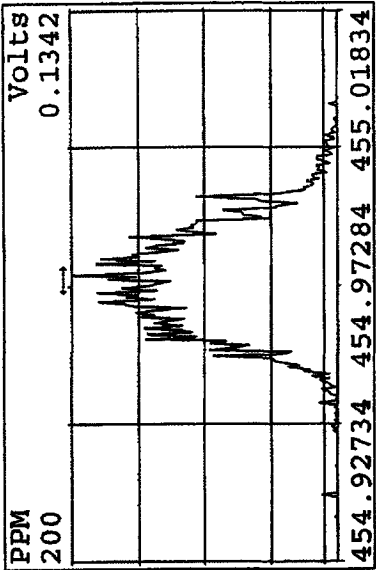
Peak Locate Examination: 14-APR-2010:00:01 File: RESCHK12AP104D5  
 Experiment: DIOXINRES8290A Function: 3 Reference: PFK



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

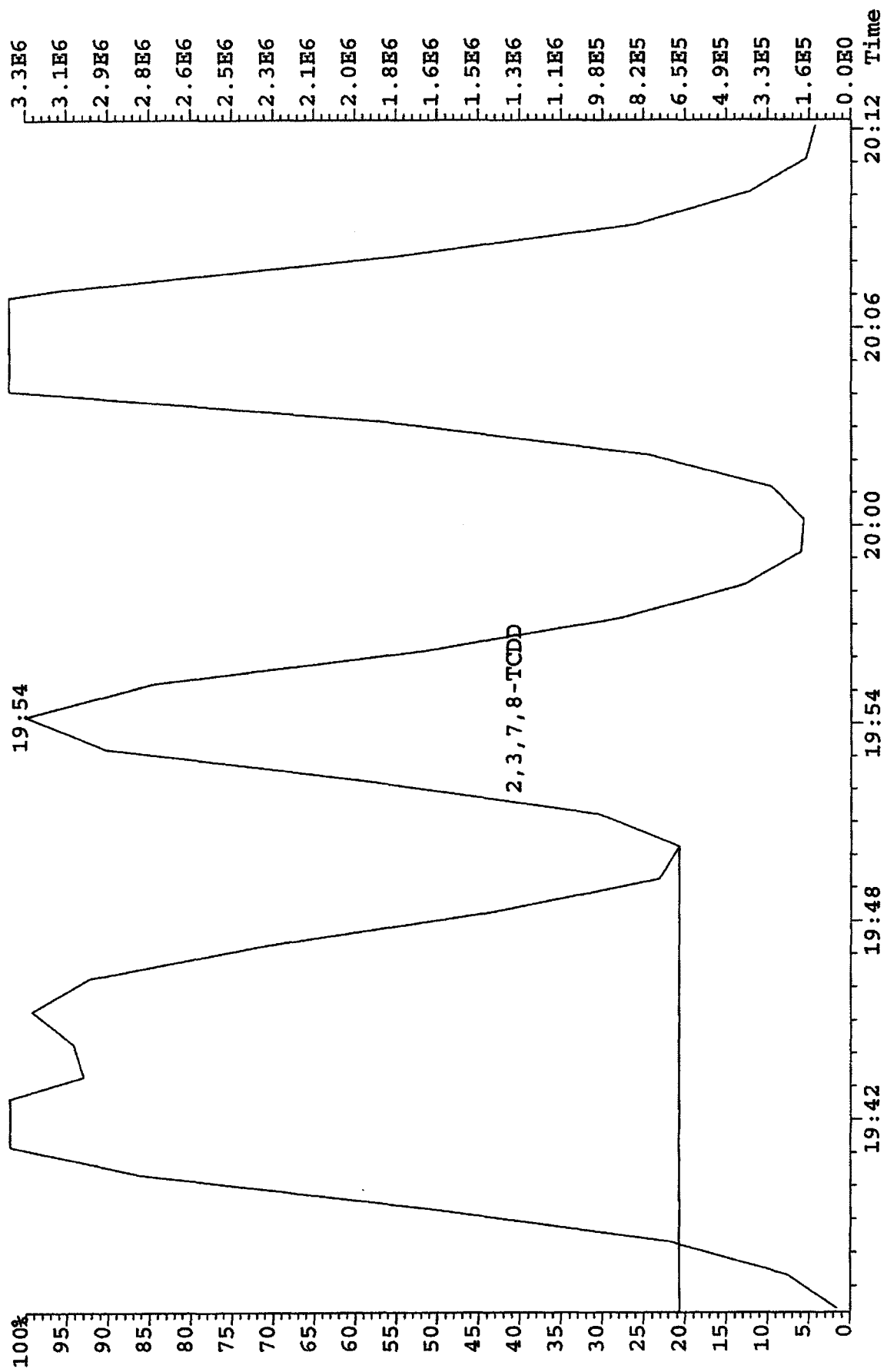


Peak Locate Examination: 14-APR-2010:00:03 File: RESCHK12AP104D5  
 Experiment: DIOXINRES8290A Function: 5 Reference: PFK





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

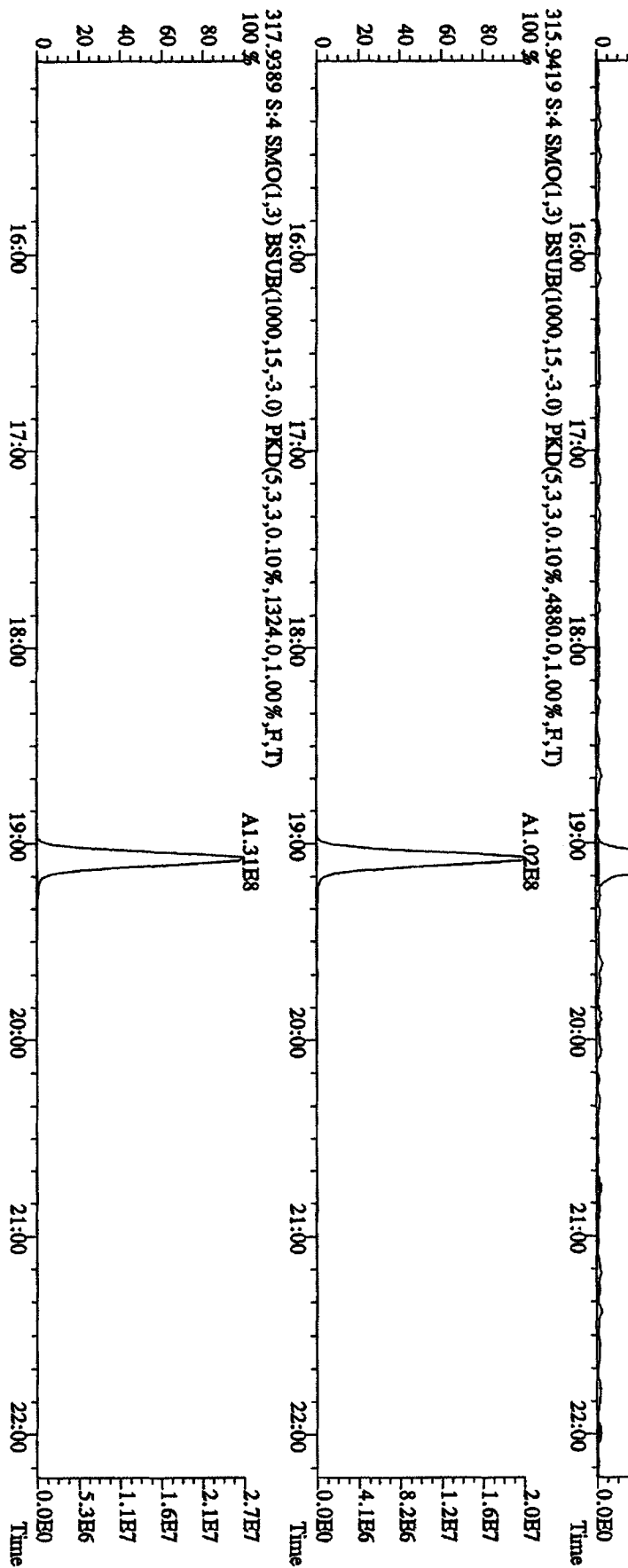
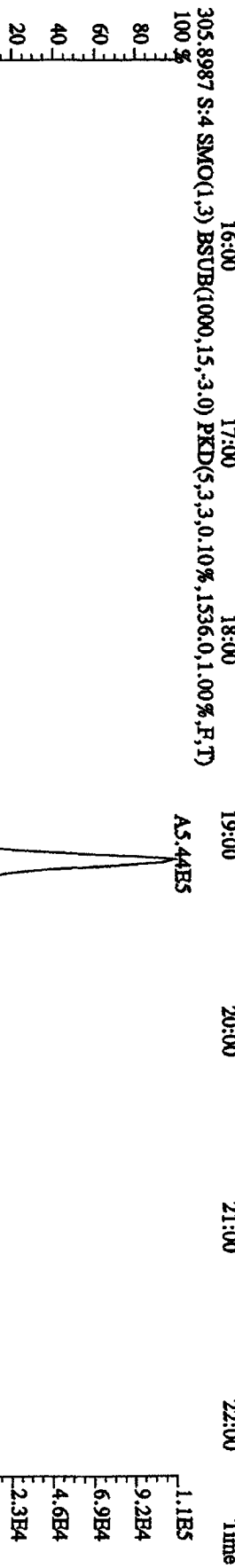
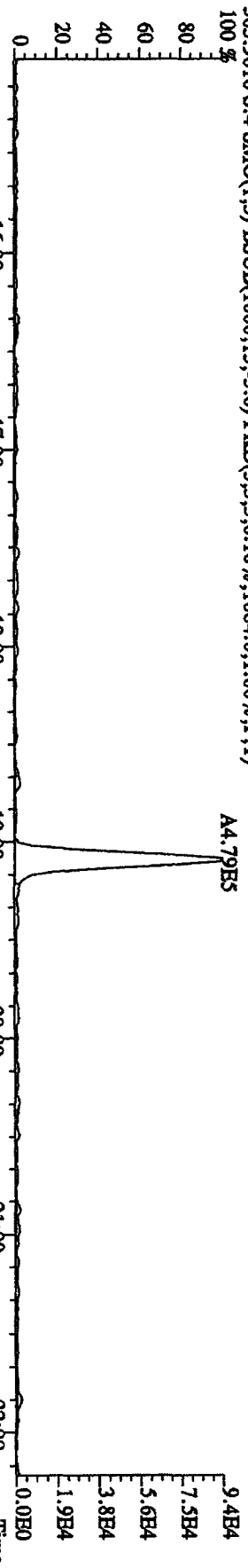


Run text: ST0412E                      Sample text: ST0412E :2nd Source 09DXN449  
 Run #6    Filename: 12AP104D5    S: 7    I: 1                      Results: 12AP104D58290A  
 Acquired: 12-APR-10    13:00:53                      Processed: 12-APR-10    13:48:00  
 Run: 12AP104D5                   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

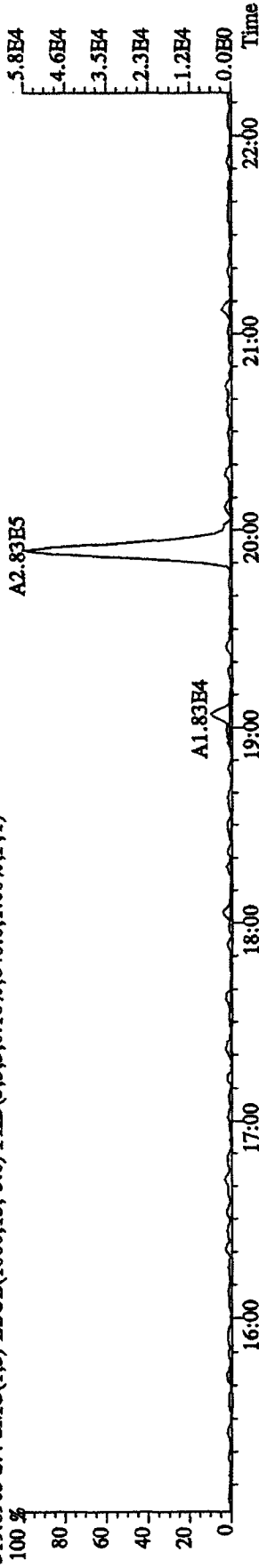
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	151409600	0.82 y	19:40	-	113.81	-	-	n
13C-2,3,7,8-TCDF	230171000	0.79 y	19:04	1.52	1999.28	0.93	100.0	n
2,3,7,8-TCDF	21242270	0.79 y	19:05	0.95	195.26	0.34	-	n
Total TCDF	21588235	1.02 n	18:04	0.95	198.44	0.34	-	n
13C-2,3,7,8-TCDD	152072000	0.79 y	19:52	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

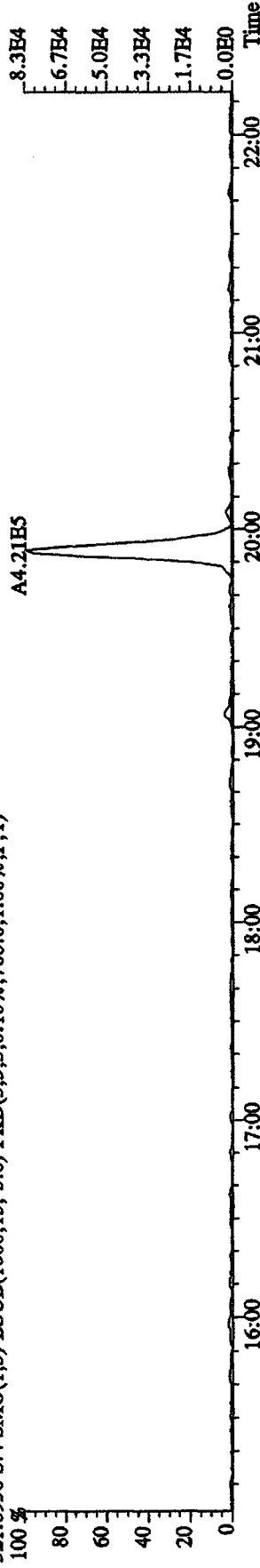
File:12AP10AD5 #1-435 Acq:12-APR-2010 10:48:47 GC BI+ Voltage SIR Autospec-UltimaB  
 Sample#4 Text:ST0412B :CS-1 (9DX)N422 Exp:DIOXINRES8290A  
 305.9016 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1084,0,1,00%,F,T)



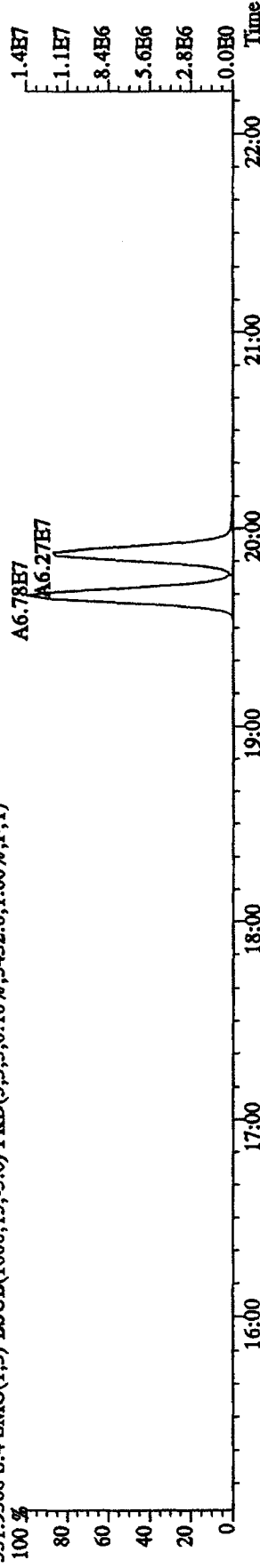
File:12AP104D5 #1-435 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 Text:ST0412B :CS-1 09DXN422 Exp:DIOXINRES8290A  
 319.8965 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,840.0,1.00%,F,T)



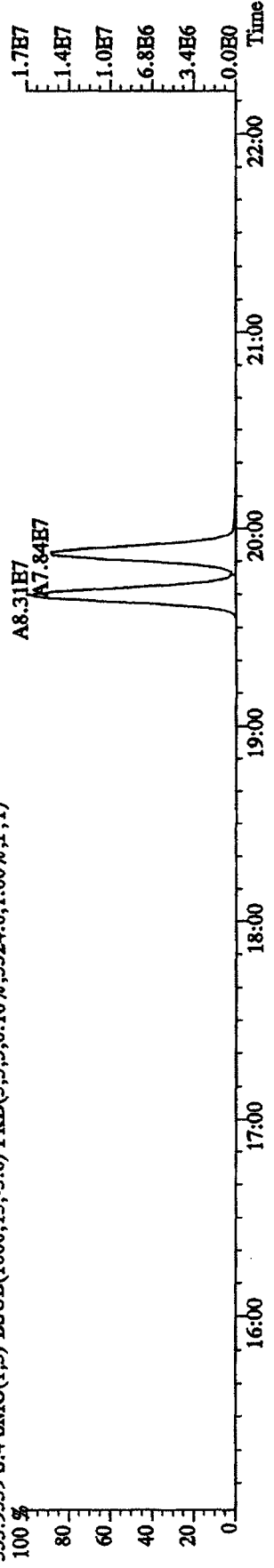
321.8936 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,768.0,1.00%,F,T)



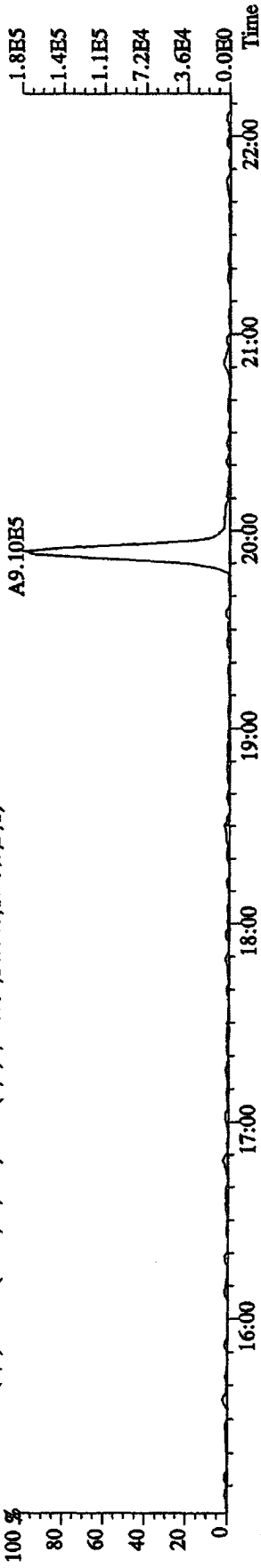
331.9268 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5432.0,1.00%,F,T)



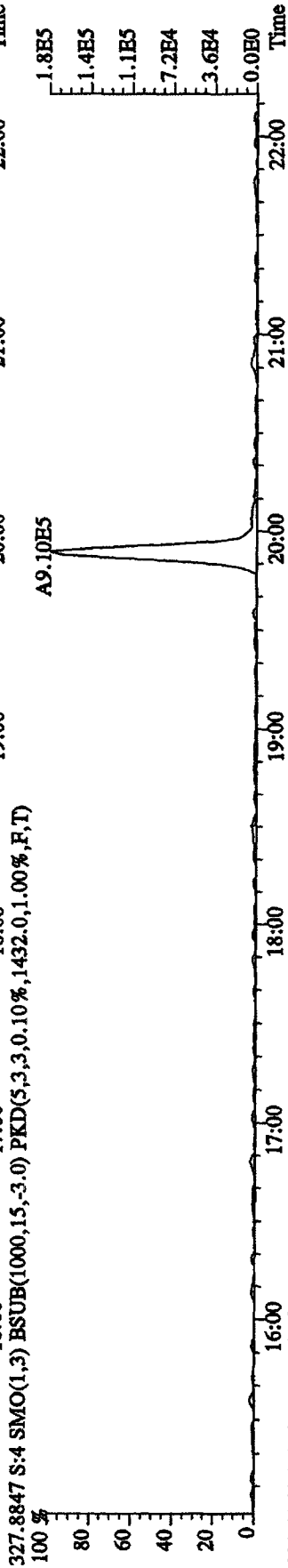
333.9239 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3324.0,1.00%,F,T)



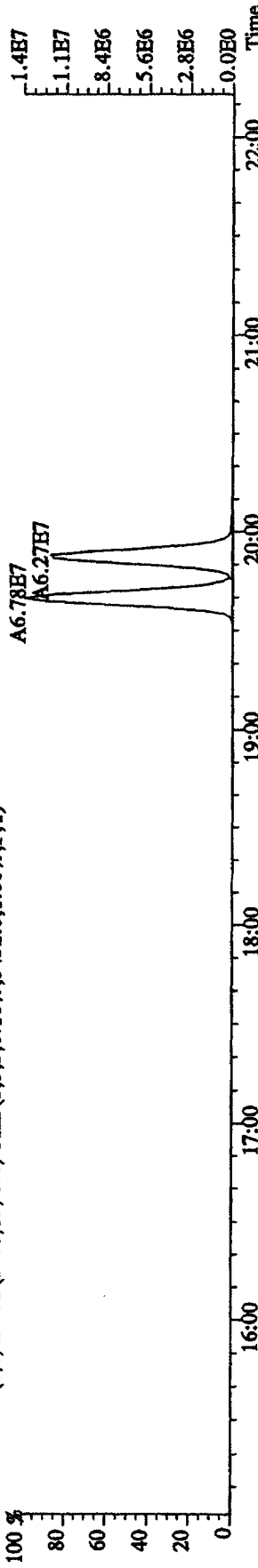
File:12API04D5 #1-435 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 Text:ST0412B :CS-1 09DXN422 Exp:DIOXINRES290A  
 327.8847 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1432.0,1.00%,F,T)



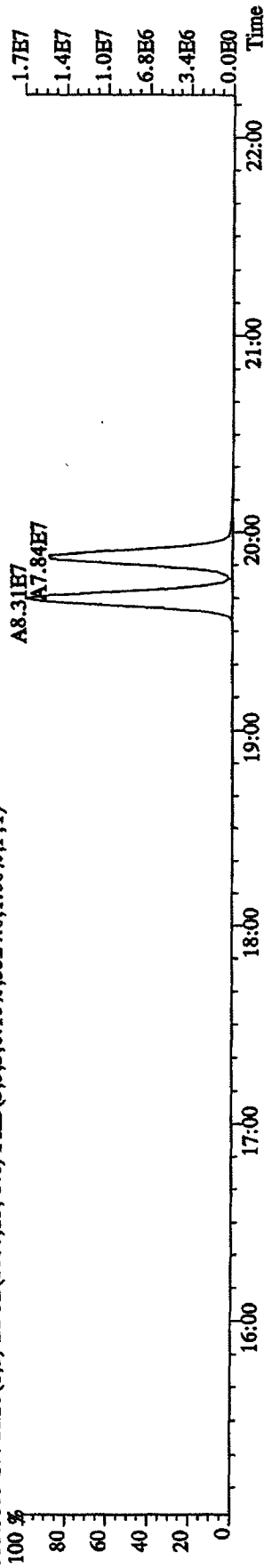
327.8847 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1432.0,1.00%,F,T)



331.9368 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5432.0,1.00%,F,T)



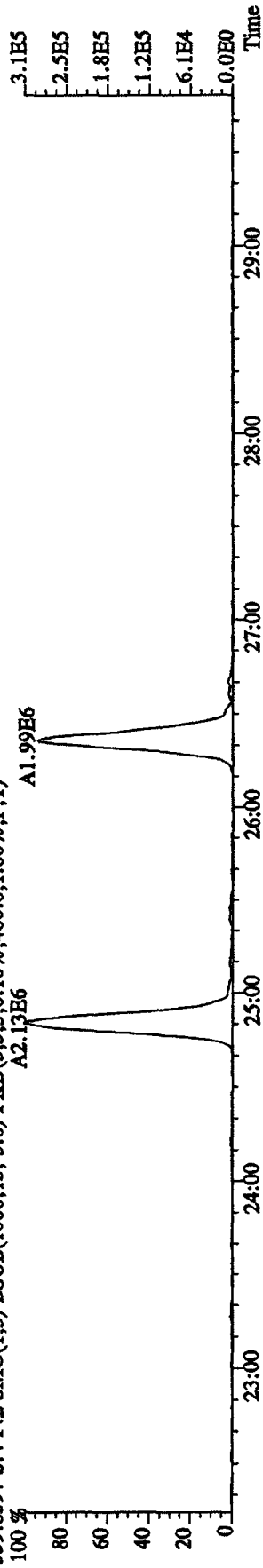
333.9339 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3324.0,1.00%,F,T)



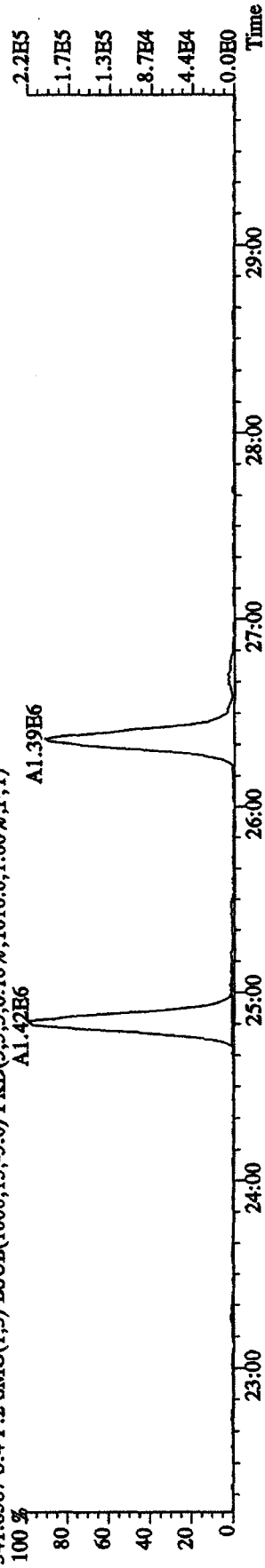
File:12AP104D5 #1-604 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaB

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

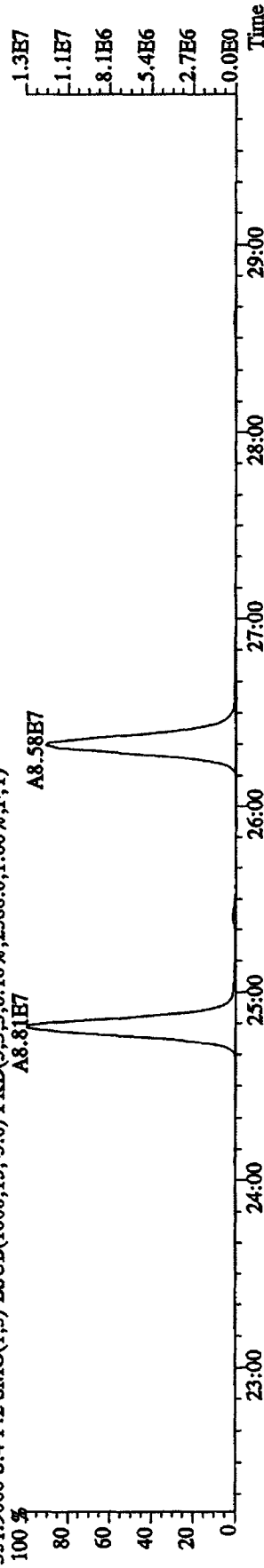
339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1016.0,1.00%,F,T)



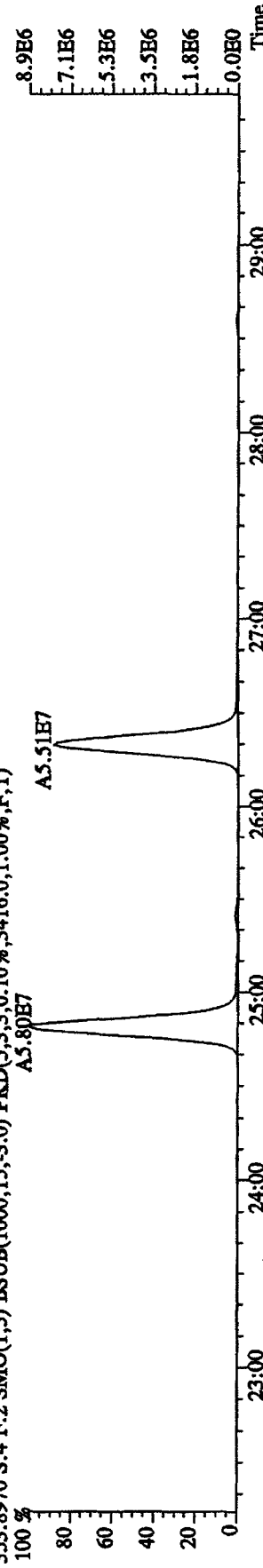
341.8567 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1016.0,1.00%,F,T)



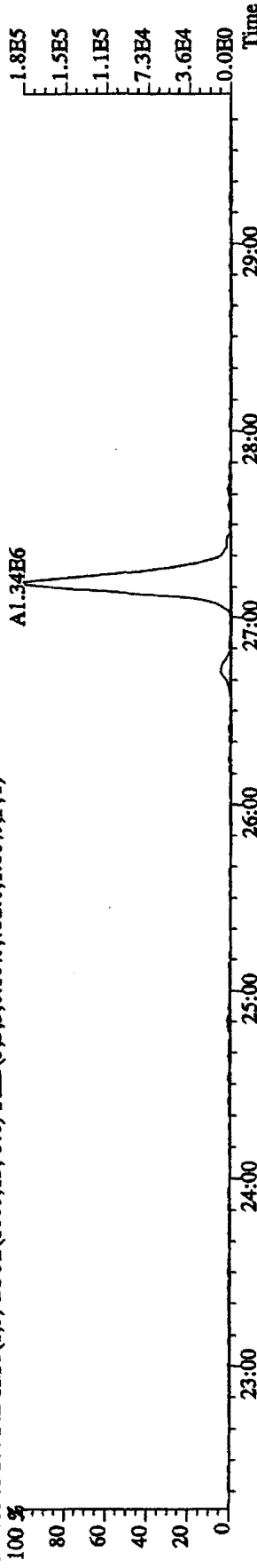
351.9000 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2588.0,1.00%,F,T)



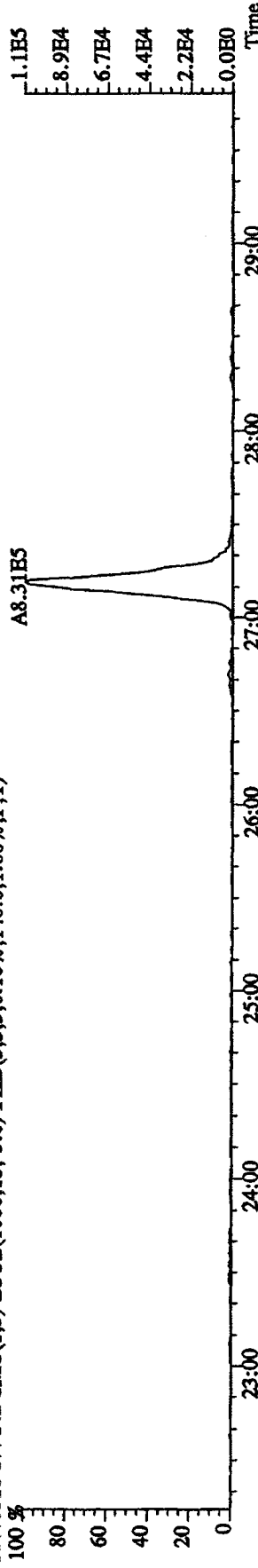
353.8970 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3416.0,1.00%,F,T)



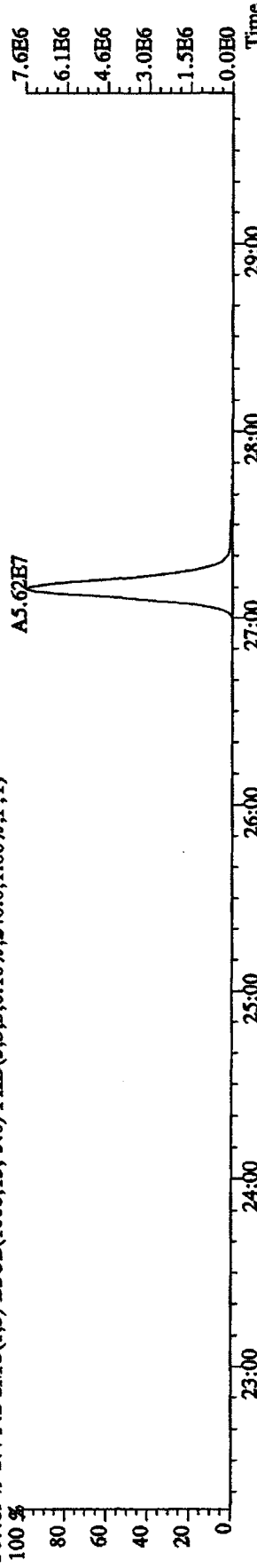
File:12AP104D5 #1-604 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 Text:ST0412B :CS-1 09DXN422 Exp:DIOXINRES290A  
 355.8546 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,732.0,1.00%,F,T)



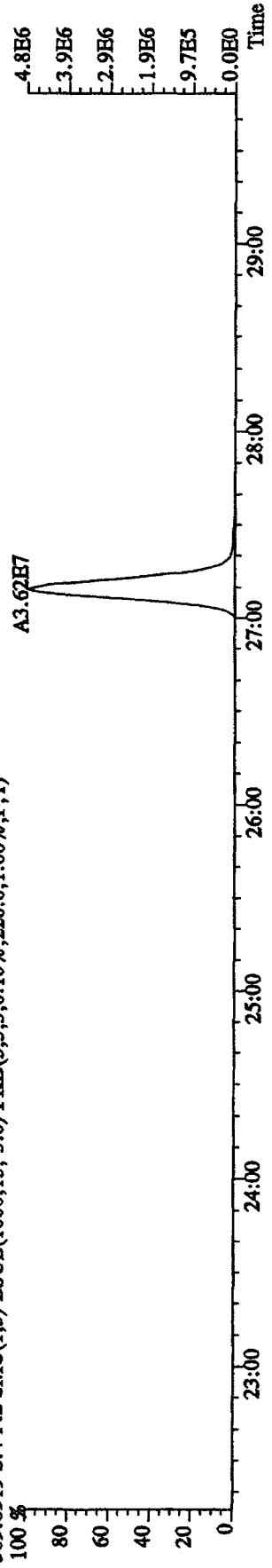
357.8516 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,140.0,1.00%,F,T)



367.8949 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,240.0,1.00%,F,T)

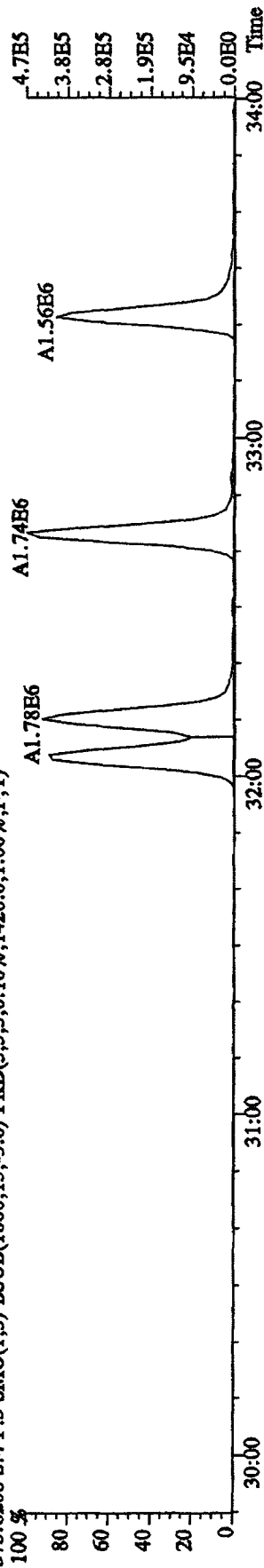


369.8919 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,220.0,1.00%,F,T)

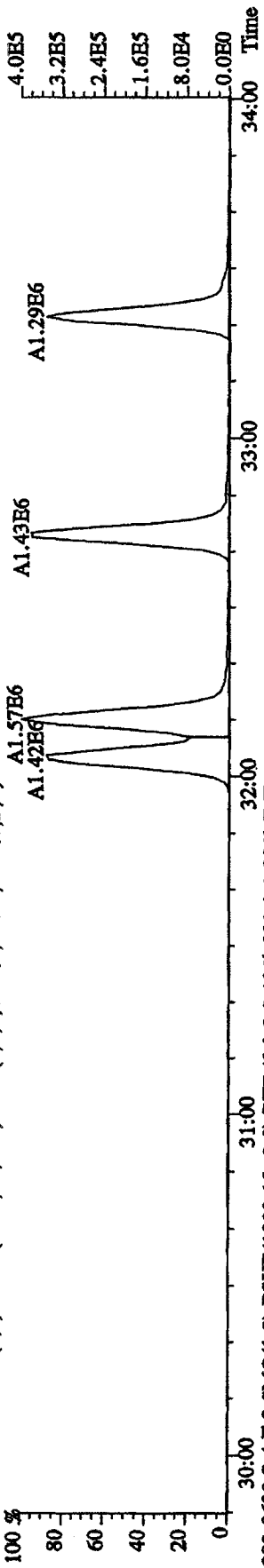




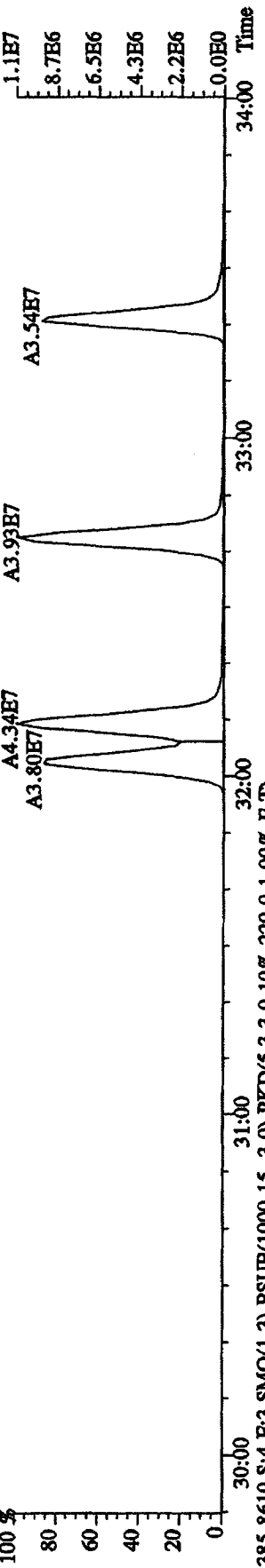
File: 12AP104D5 #1-317 Acq: 12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#4 Text: ST0412B :CS-1 09DXN422 Exp: DIOXINRES290A  
 373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1420.0,1.00%,F,T)



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)



383.8639 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,228.0,1.00%,F,T)



385.8610 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,220.0,1.00%,F,T)

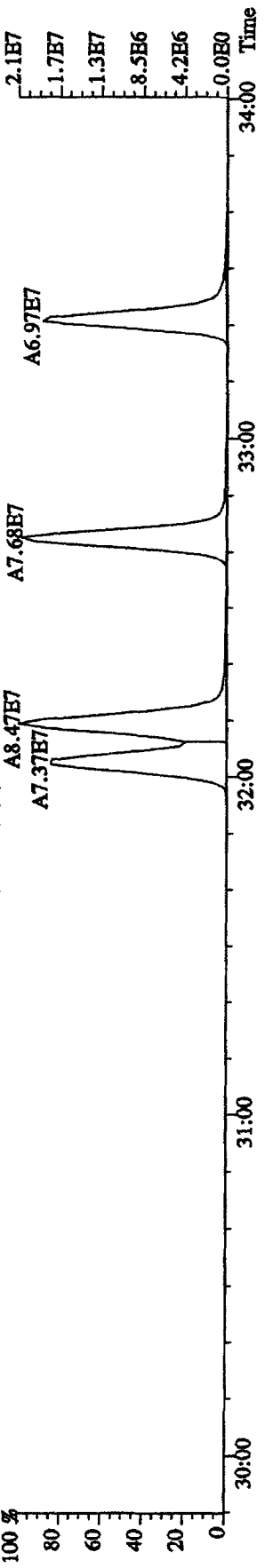
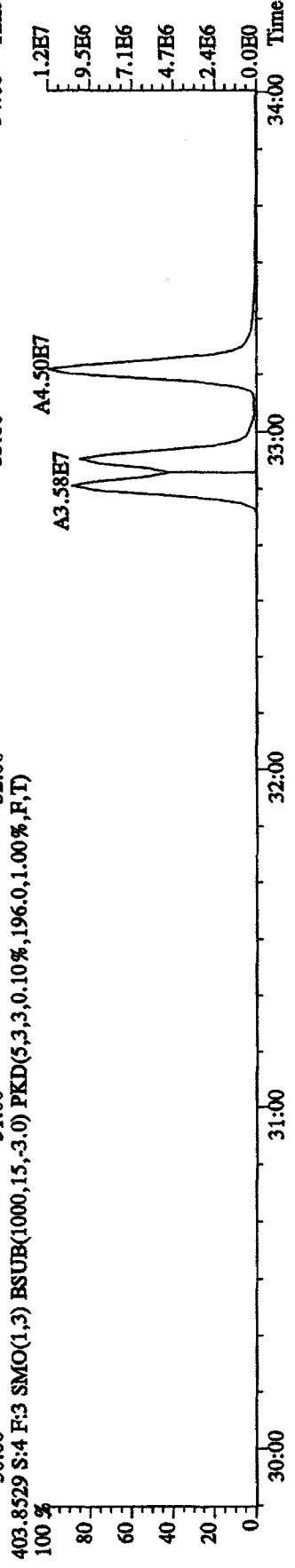
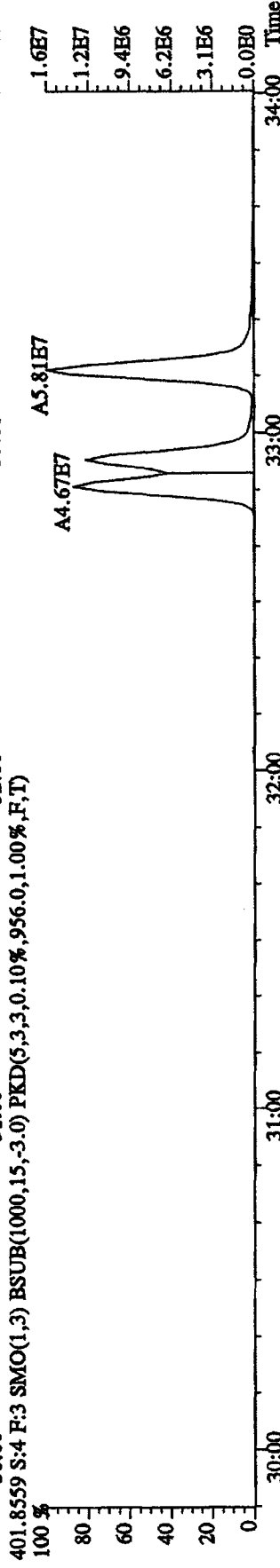
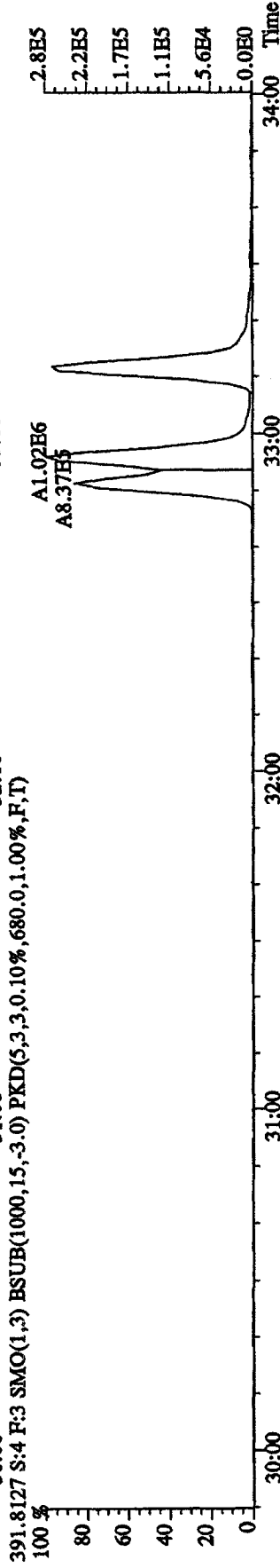
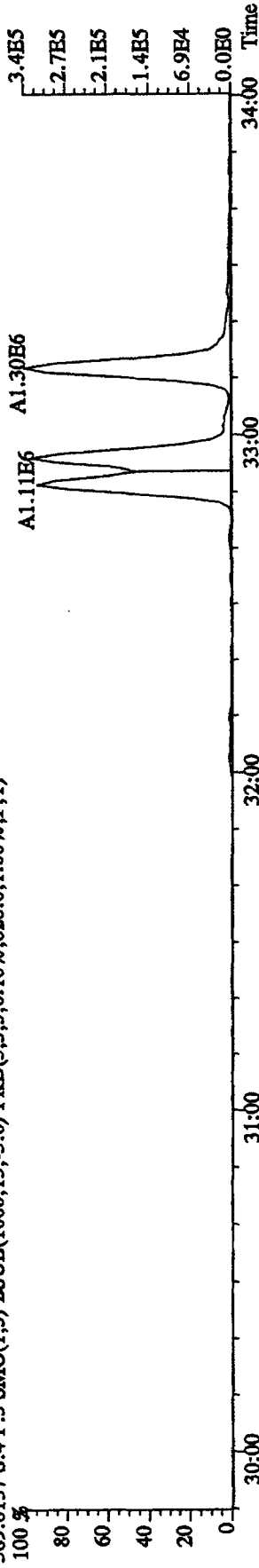
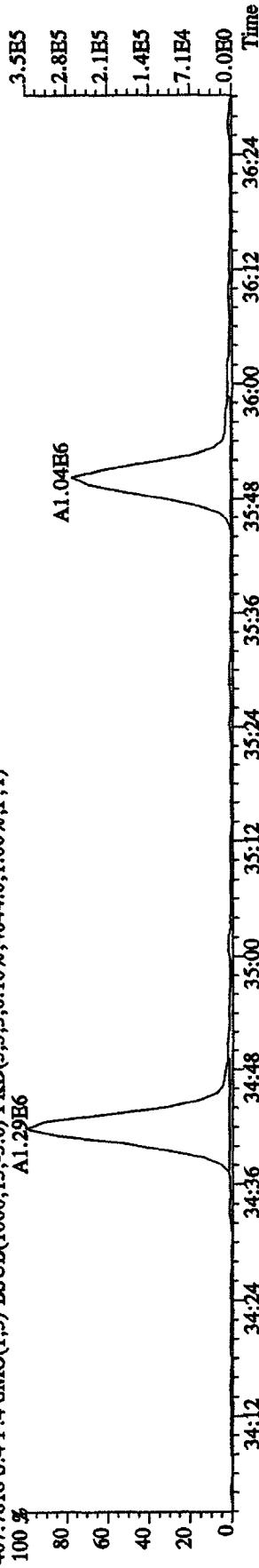


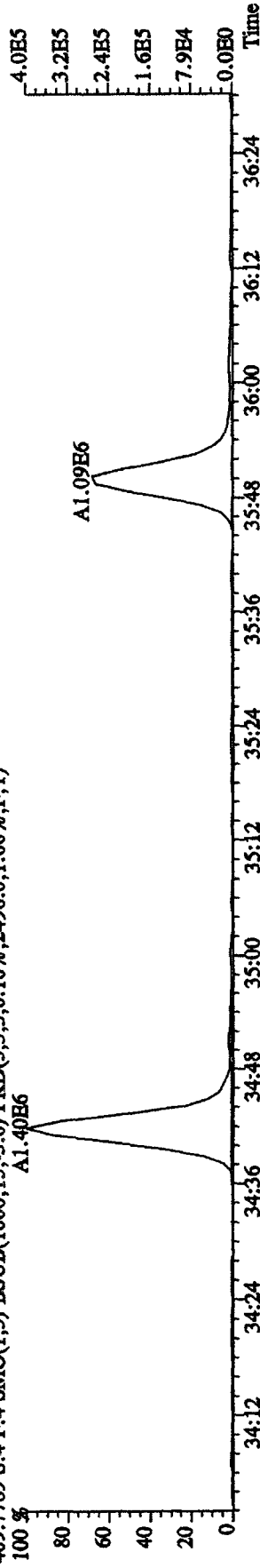
Fig:12AP104D5 #1-317 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#4 Text:ST0412B :CS-1 09DXN422 Exp:DIOXINRES290A  
 389.8157 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,828.0,1.00%,F,T)



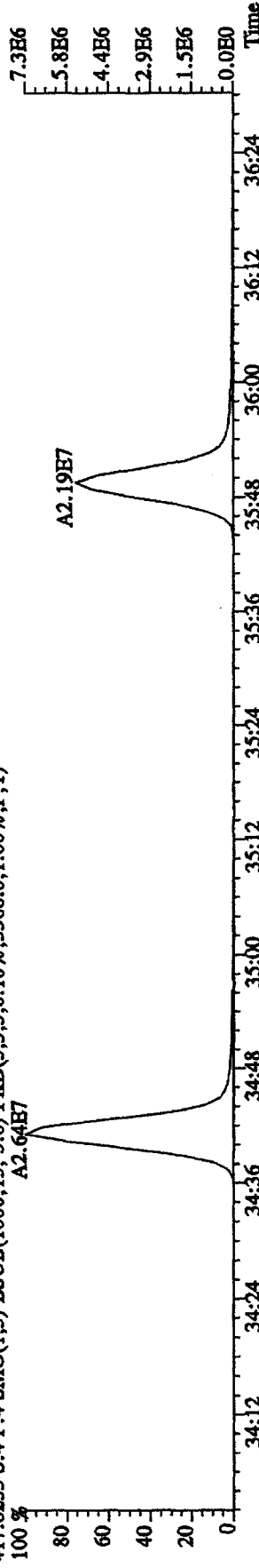
File:12AP104D5 #1-198 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 Text:ST0412B :CS-1 09DXN422 Exp:DIOXINRES290A  
 407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4044.0,1.00%,F,T)  
 A1.29E6



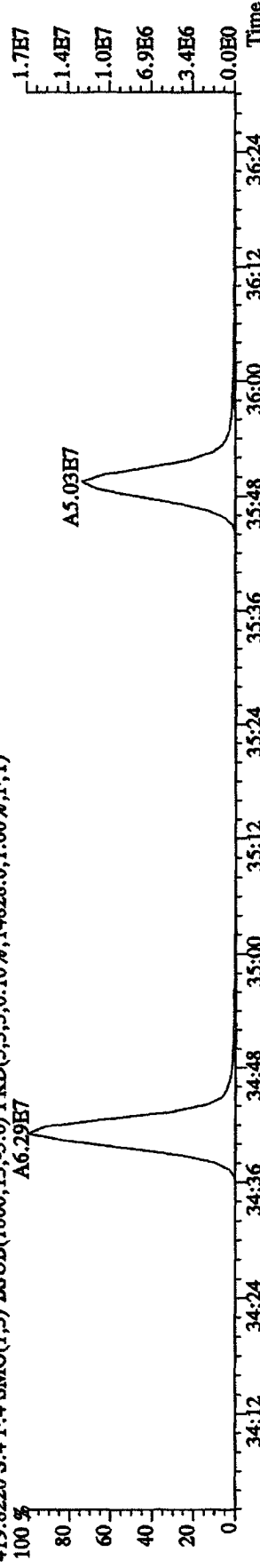
409.7789 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2496.0,1.00%,F,T)  
 A1.40E6



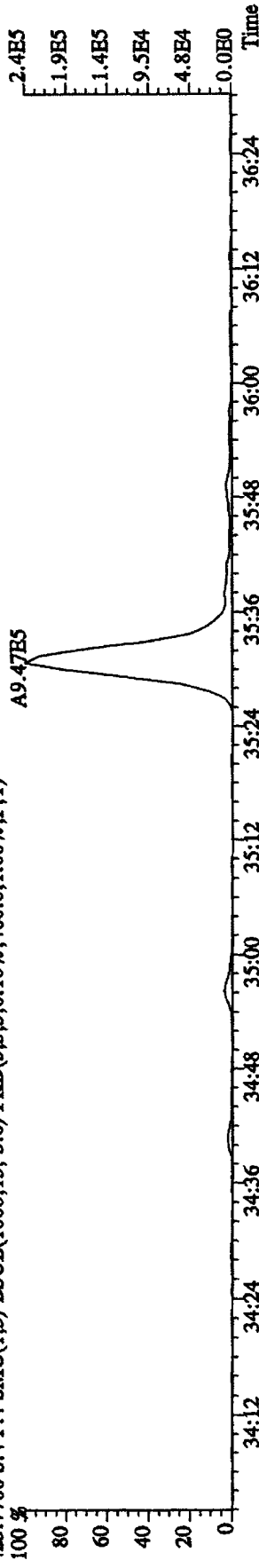
417.8253 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5368.0,1.00%,F,T)  
 A2.64E7



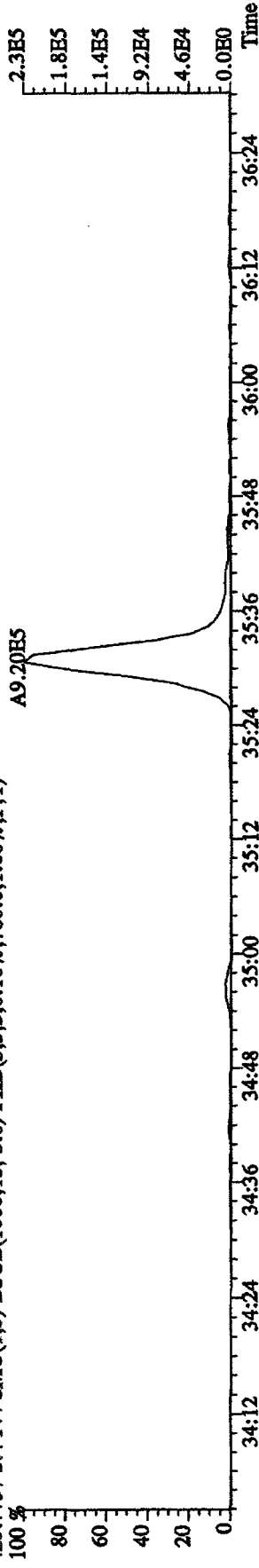
419.8220 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14828.0,1.00%,F,T)  
 A6.29E7



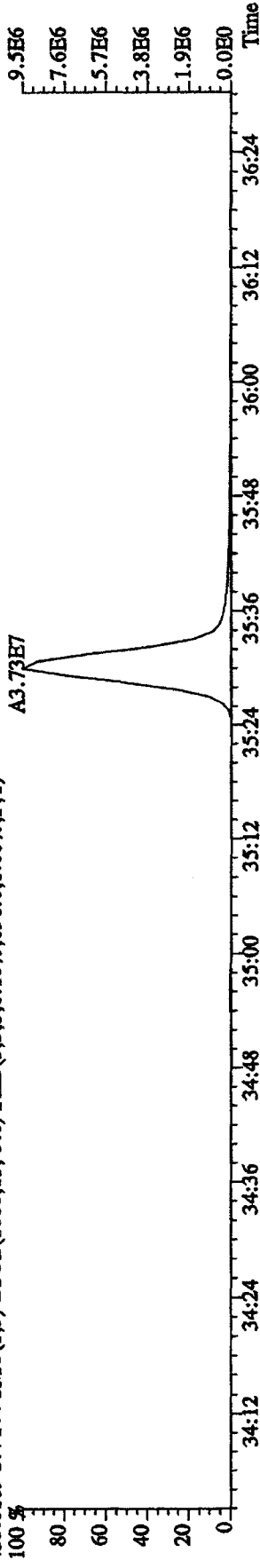
File:12AP104D5 #1-198 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#4 Text:ST0412B :CS-1 09DXN422 Exp:DIOXINRES290A  
 423.7766 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,460.0,1.00%,F,T)



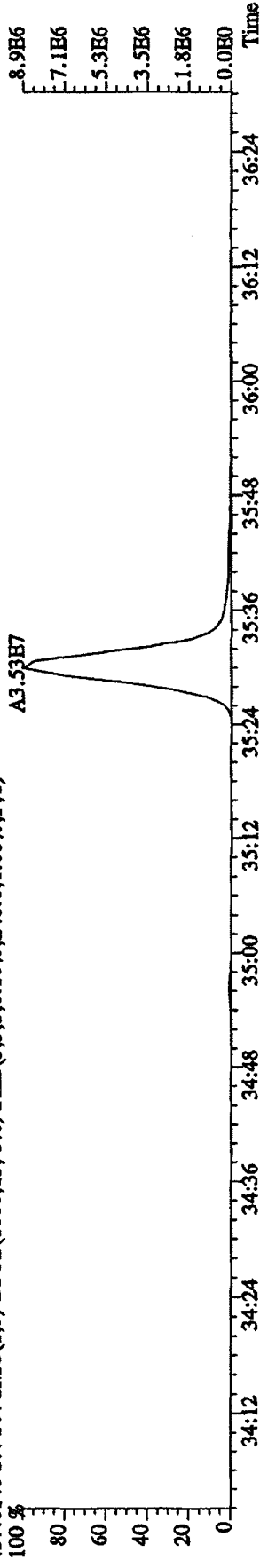
425.7737 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,780.0,1.00%,F,T)



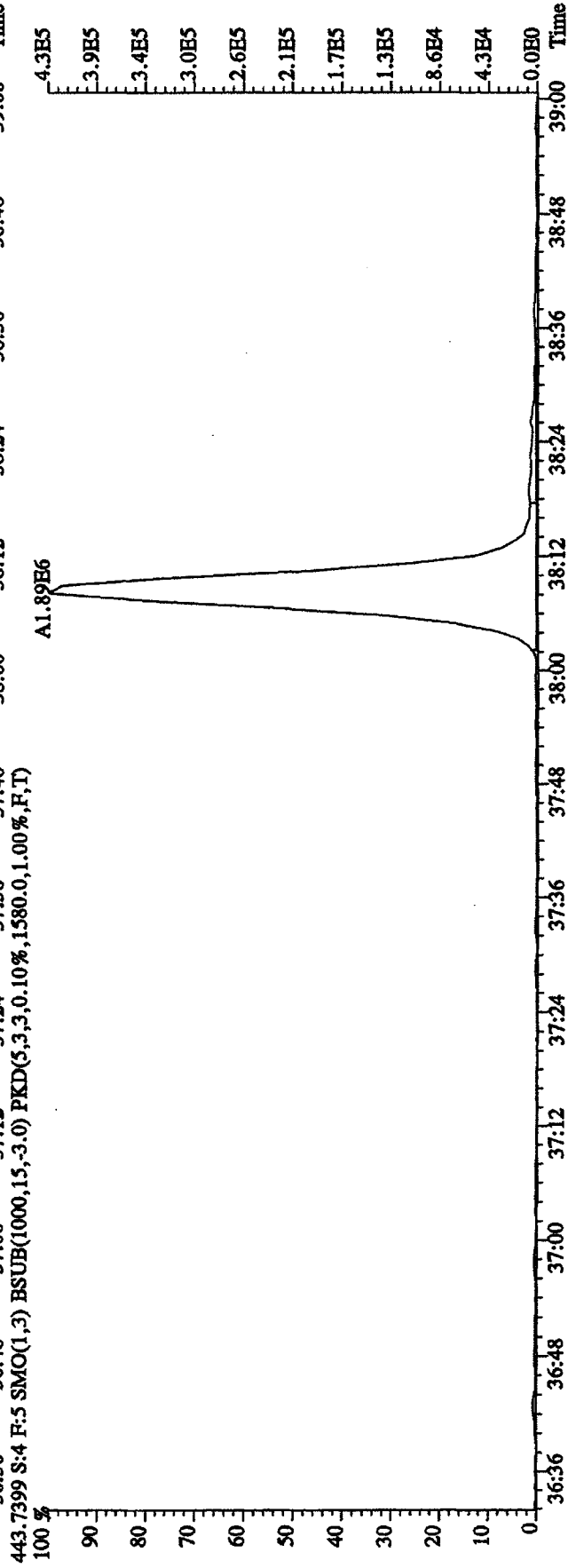
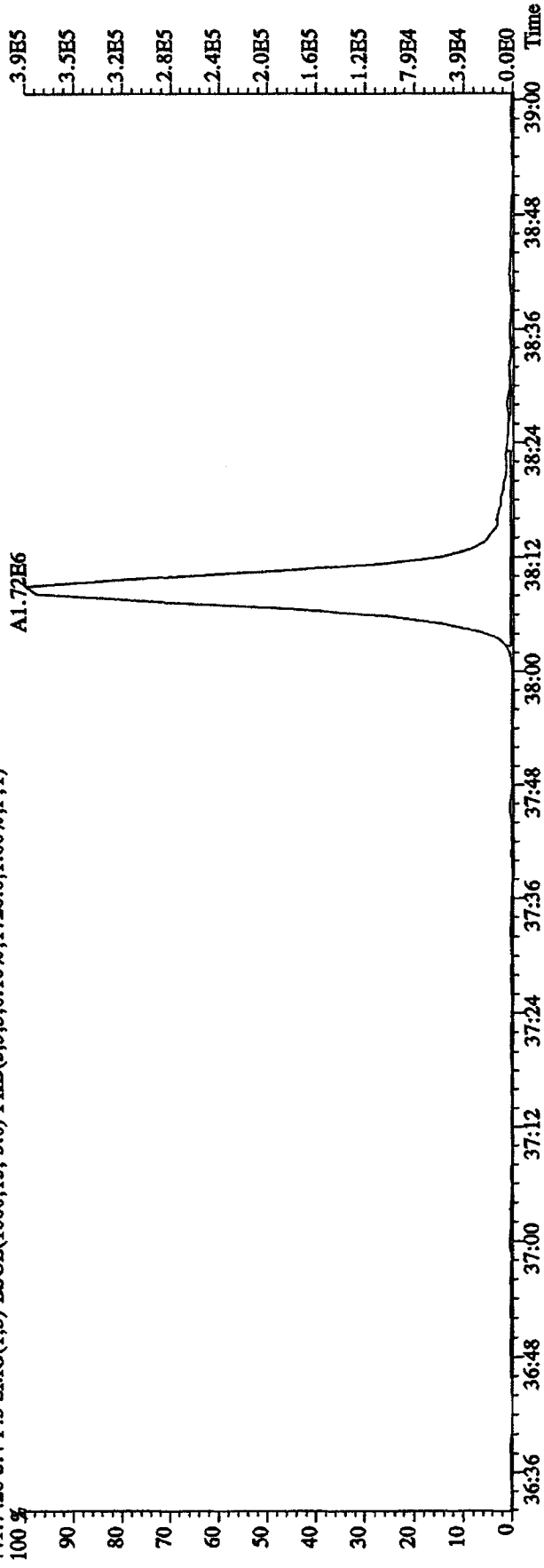
435.8169 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,696.0,1.00%,F,T)



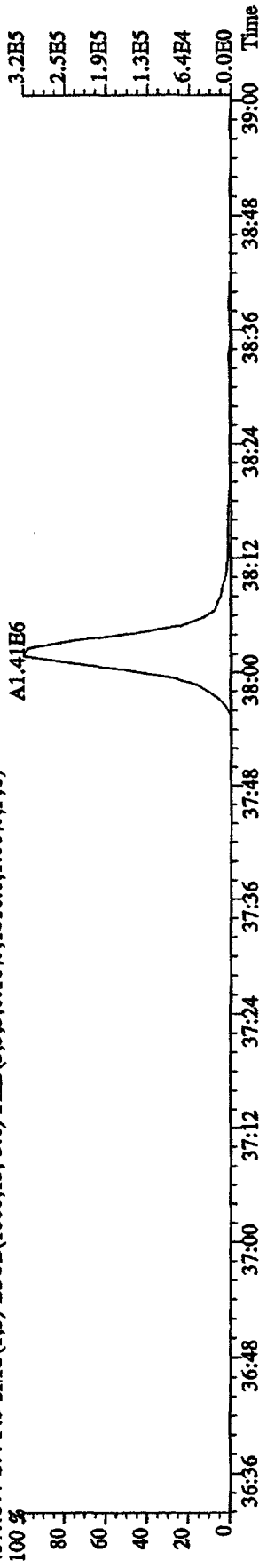
437.8140 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,248.0,1.00%,F,T)



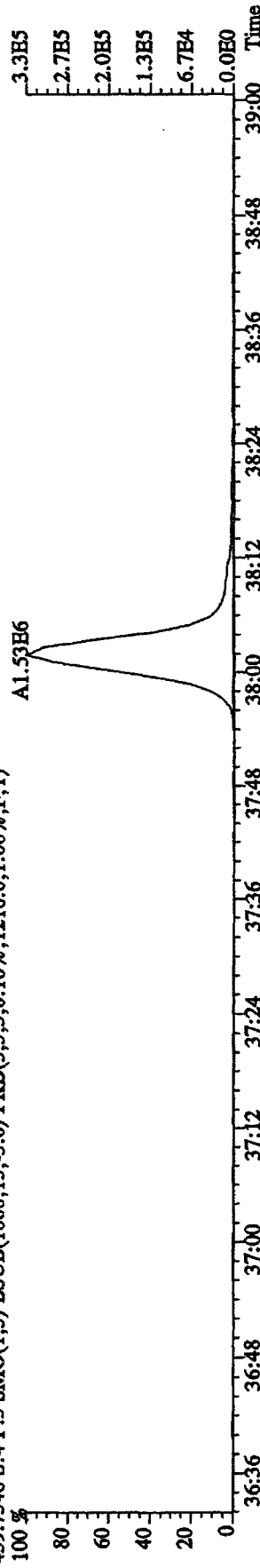
File: 12AP104D5 #1-191 Acq: 12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#4 Text: ST0412B : CS-1 09DXN422 Exp: DIOXINRES8290A  
 441.7428 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1720.0,1.00%,F,T)



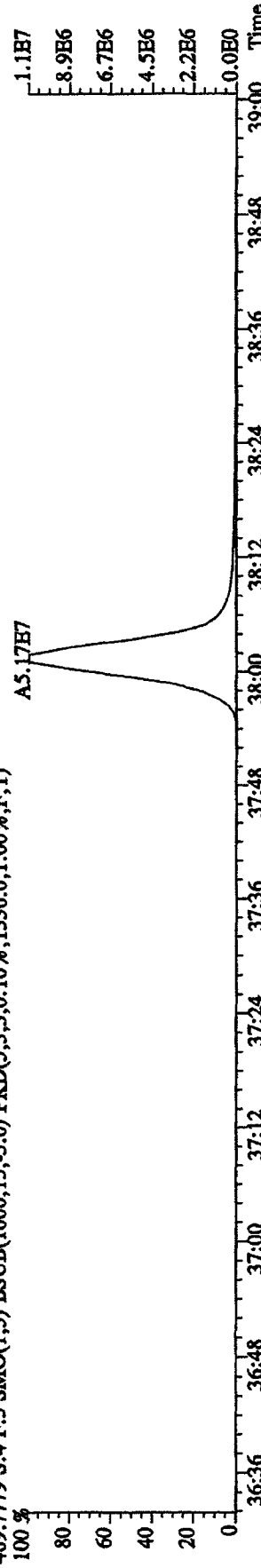
File:12AP104D5 #1-191 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 Text:ST0412B :CS-1 09DXN422 Exp:DIOXINRBS8290A  
 457.7377 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1816.0,1.00%,F,T)



459.7348 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1216.0,1.00%,F,T)



469.7779 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1336.0,1.00%,F,T)



471.7750 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,164.0,1.00%,F,T)

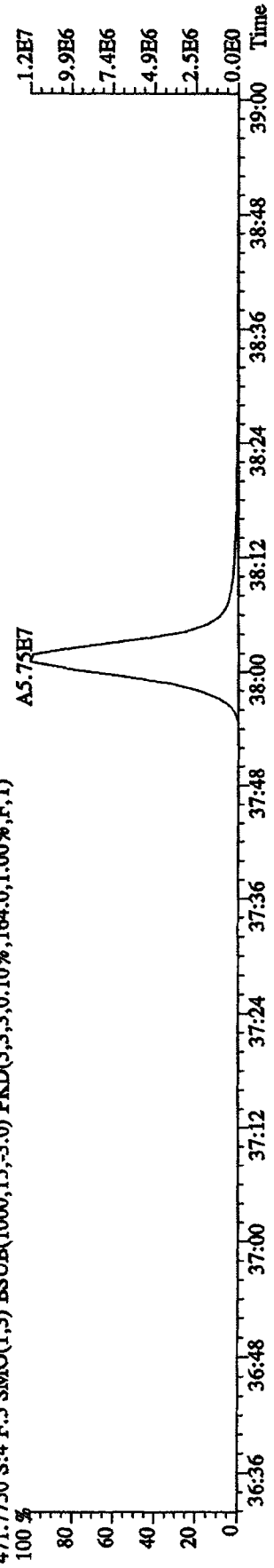
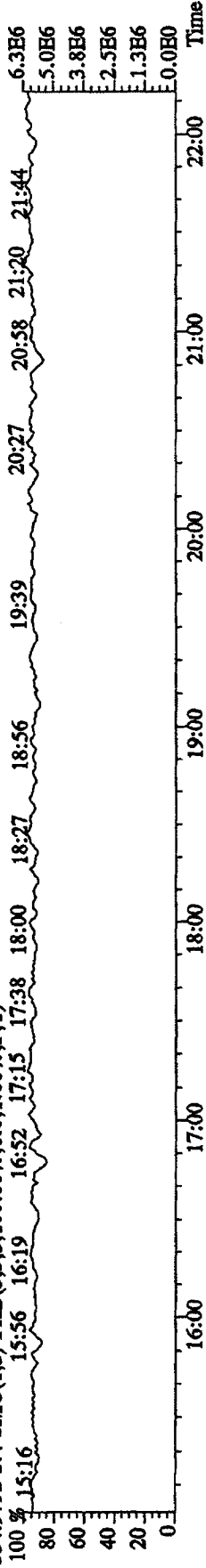


Fig:12AP104D5 #1-435 Acq:12-APR-2010 10:48:47 GC HI+ Voltage SIR Autospec-UltimaE

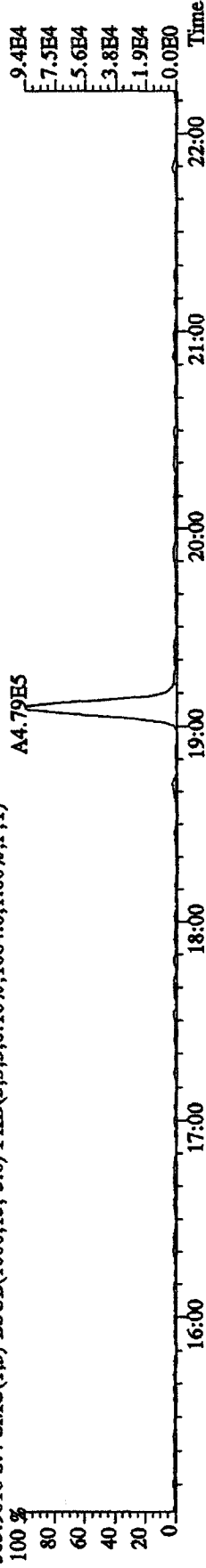
Sample#4 Text:ST0412B :CS-1 09DXN422 Exp:DIOXINRES8290A

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

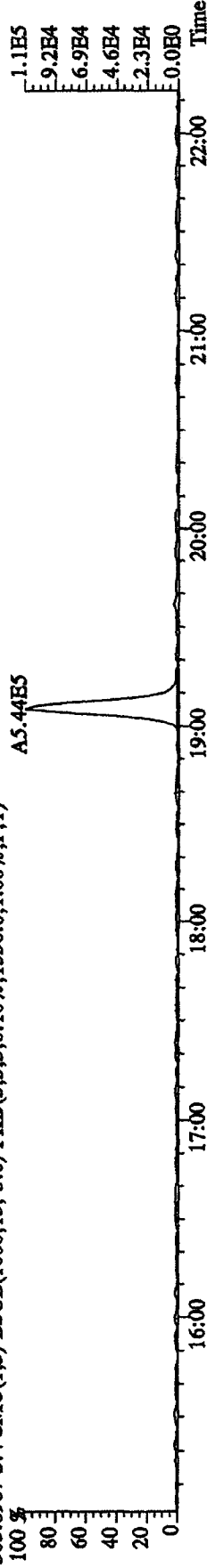
15:56 16:19 16:52 17:15 17:38 18:00 18:27 18:56 19:39 20:27 20:58 21:20 21:44



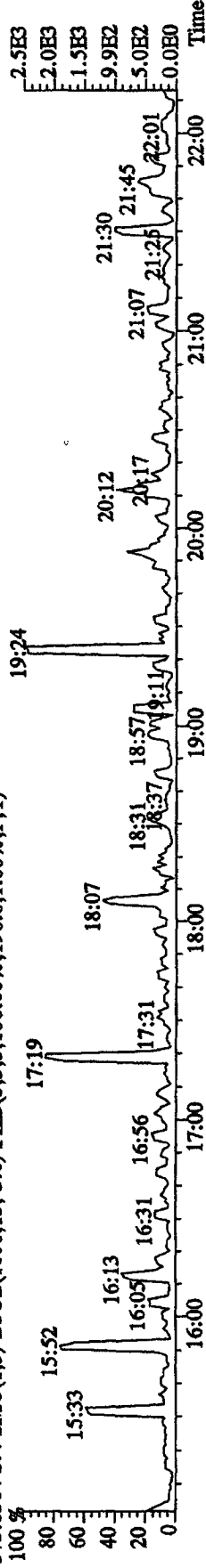
303.9016 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1084.0,1.00%,F,T)



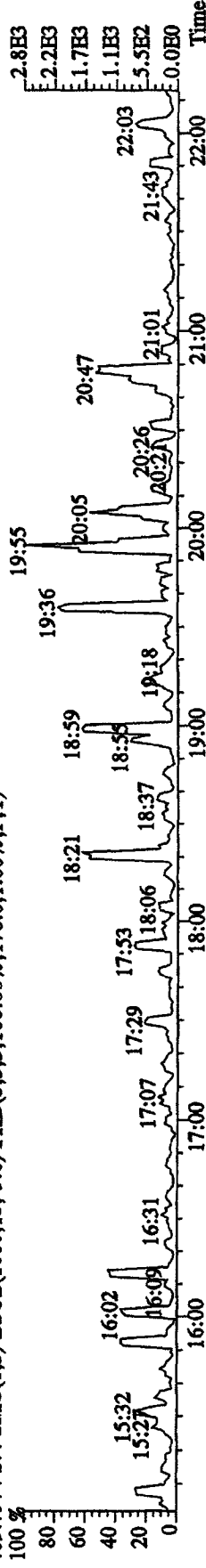
305.8987 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1536.0,1.00%,F,T)



375.8364 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,196.0,1.00%,F,T)



409.7974 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,176.0,1.00%,F,T)

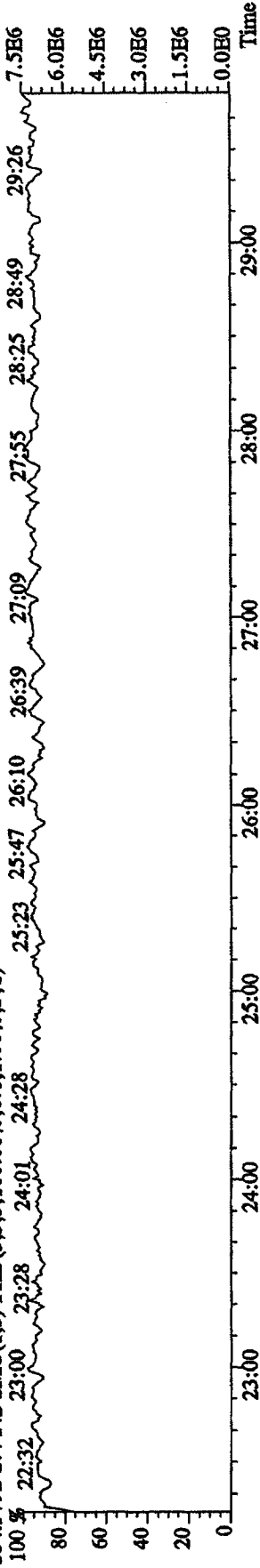


File: 12AP104D5 #1-604 Acq: 12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaE

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

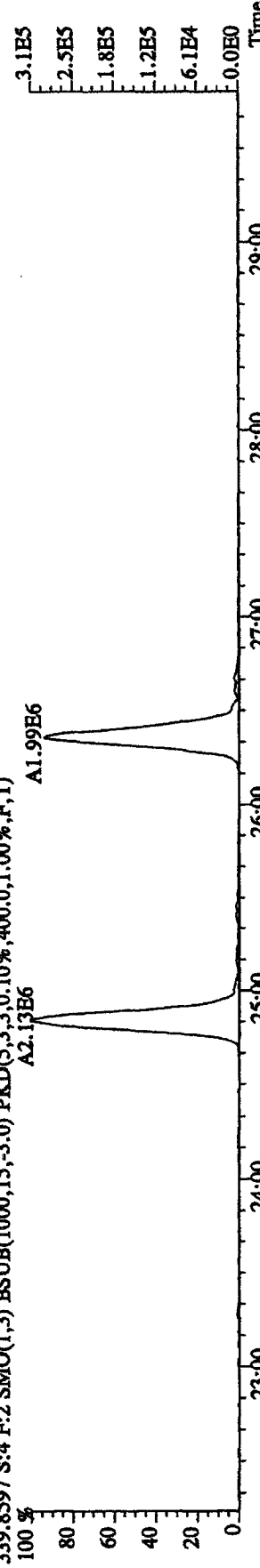
354.9792 S:4 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100% 22:32 23:00 23:28 24:01 24:28 25:23 25:47 26:10 26:39 27:09 27:55 28:25 28:49 29:26 29:56



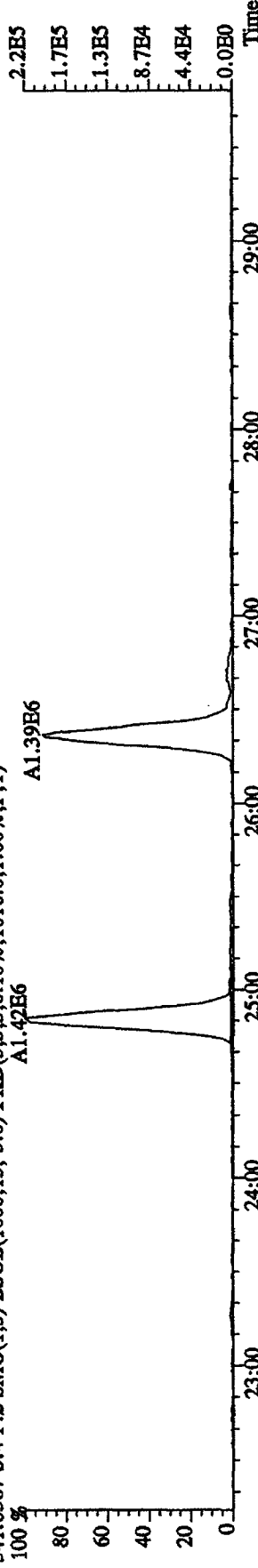
339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,400.0,1.00%,F,T)

100% 22:32 23:00 23:28 24:01 24:28 25:00 25:23 25:47 26:10 26:39 27:09 27:55 28:25 28:49 29:26 29:56



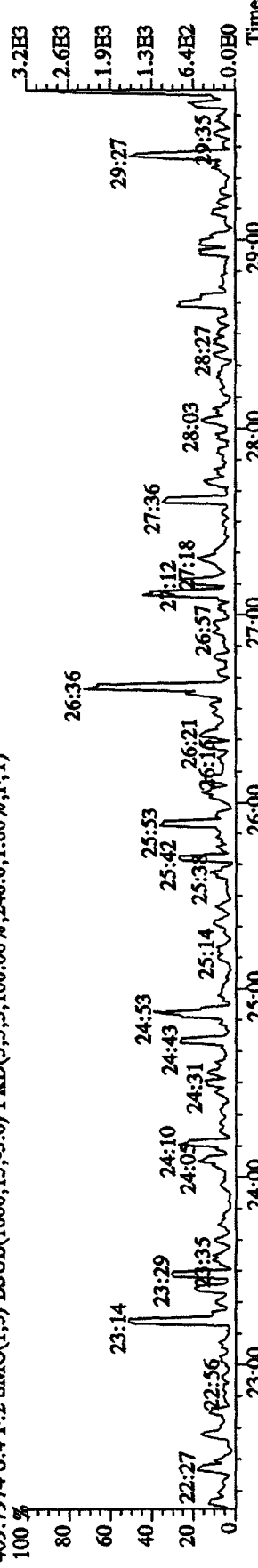
341.8567 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1016.0,1.00%,F,T)

100% 22:32 23:00 23:28 24:01 24:28 25:00 25:23 25:47 26:10 26:39 27:09 27:55 28:25 28:49 29:26 29:56



409.7974 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,248.0,1.00%,F,T)

100% 22:27 23:00 23:28 24:01 24:28 25:00 25:23 25:47 26:10 26:39 27:09 27:55 28:25 28:49 29:26 29:56



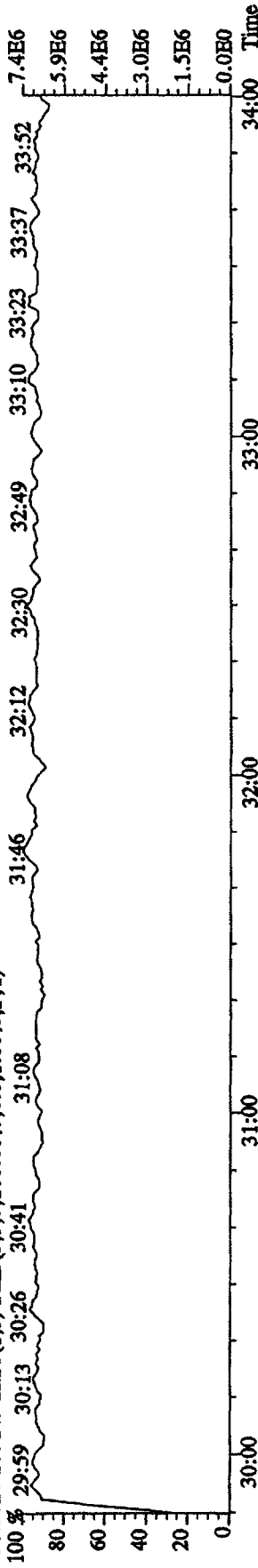


File: 12AP104D5 #1-317 Acq: 12-APR-2010 10:48:47 GC HI+ Voltage SIR Autospec-UltimaB

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

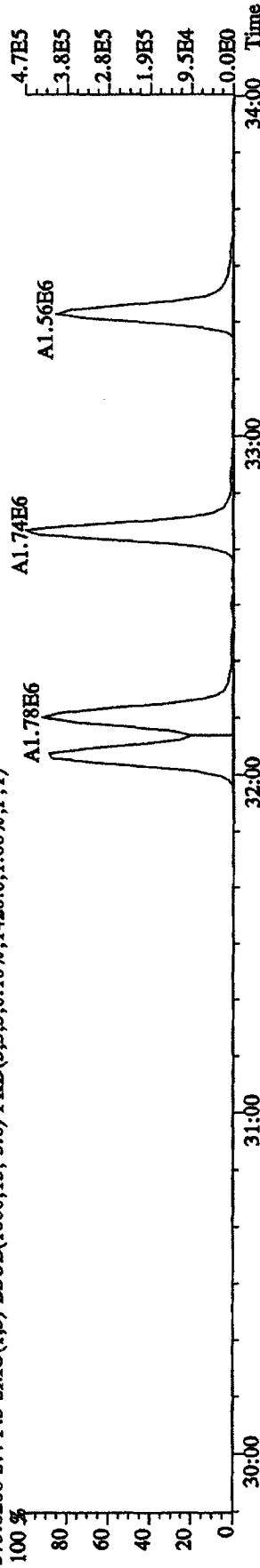
430.9728 S:4 F:3 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)

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



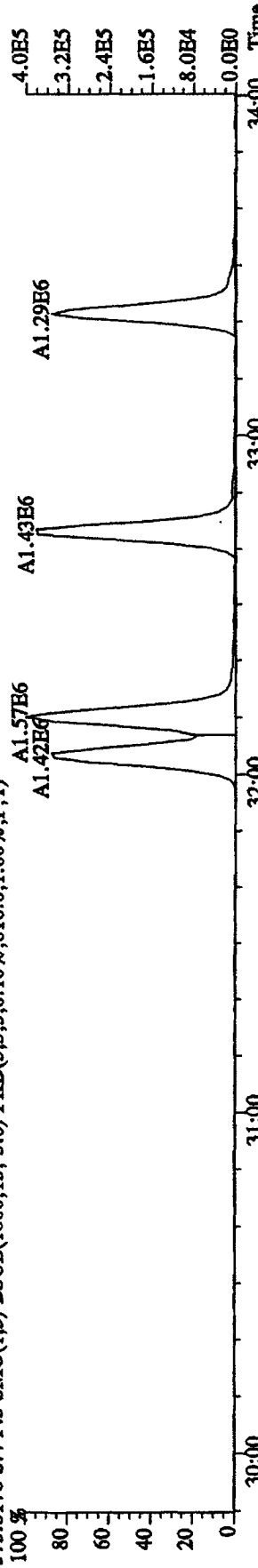
373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1420,0,1.00%,F,T)

100% 30:00 31:00 32:00



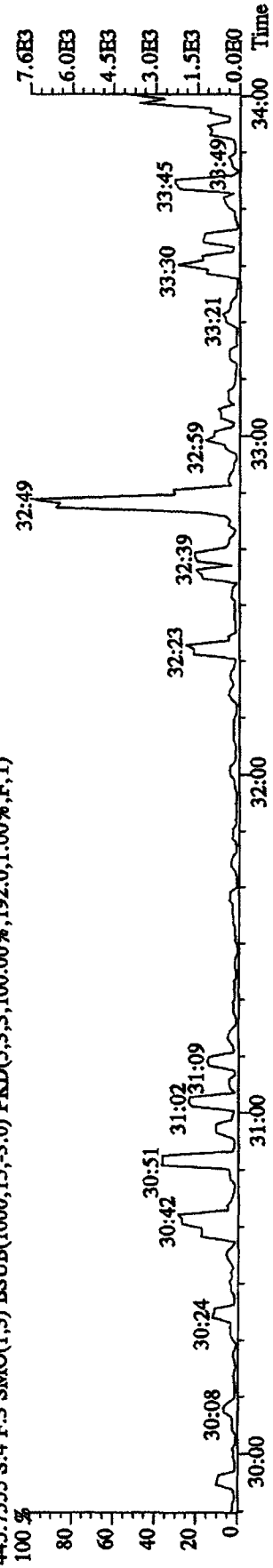
375.8178 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,816,0,1.00%,F,T)

100% 30:00 31:00 32:00



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)

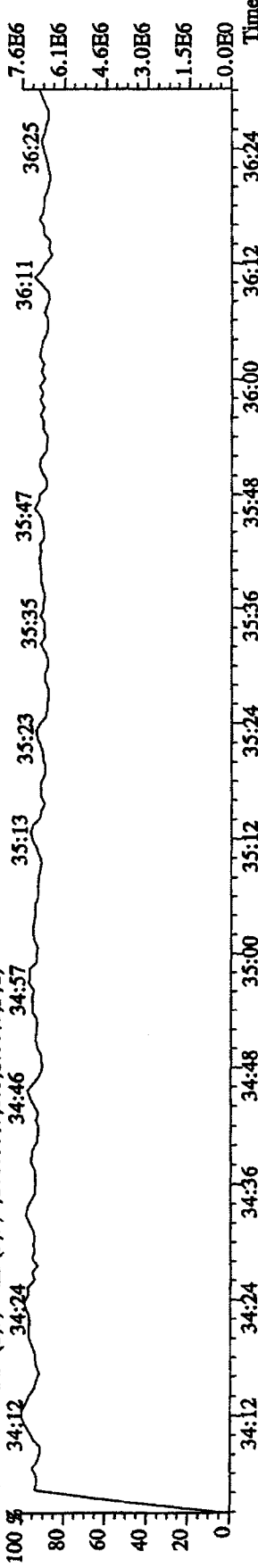
100% 30:00 31:00 32:00



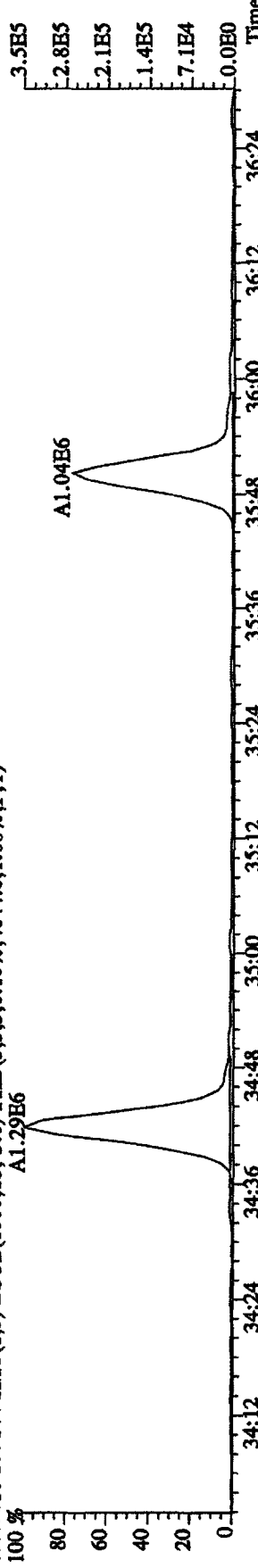
File: 12AP104D5 #1-198 Acq: 12-APR-2010 10:48:47 GC HI+ Voltage SIR Autospec-UltimaE

Sample#4 Text: STU412B :CS-1 09DXN422 Exp: DIOXINRES8290A

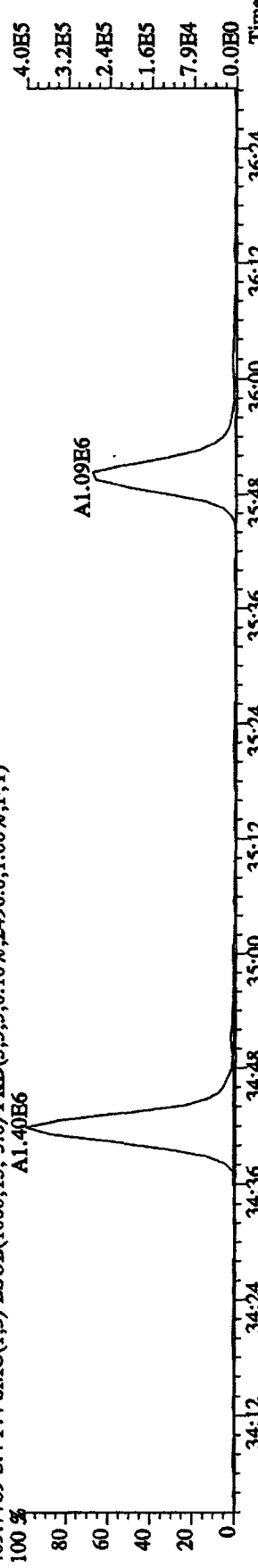
430.9728 S:4 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



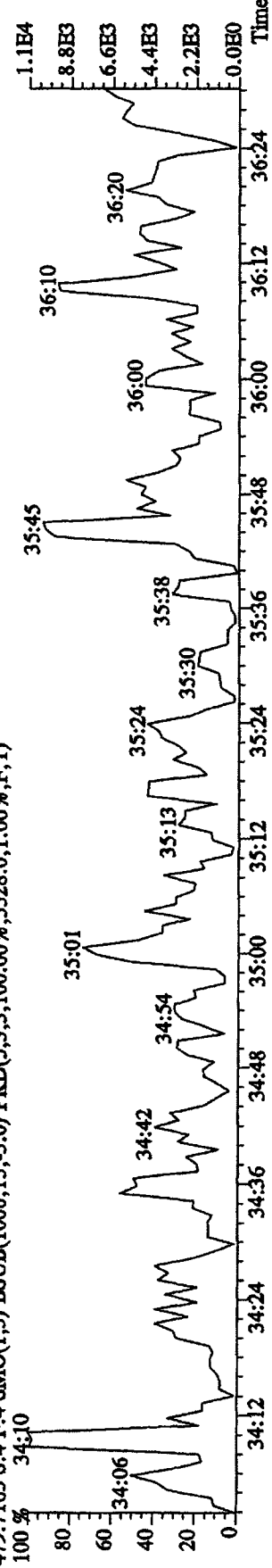
407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4044.0,1.00%,F,T)



409.7789 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2496.0,1.00%,F,T)



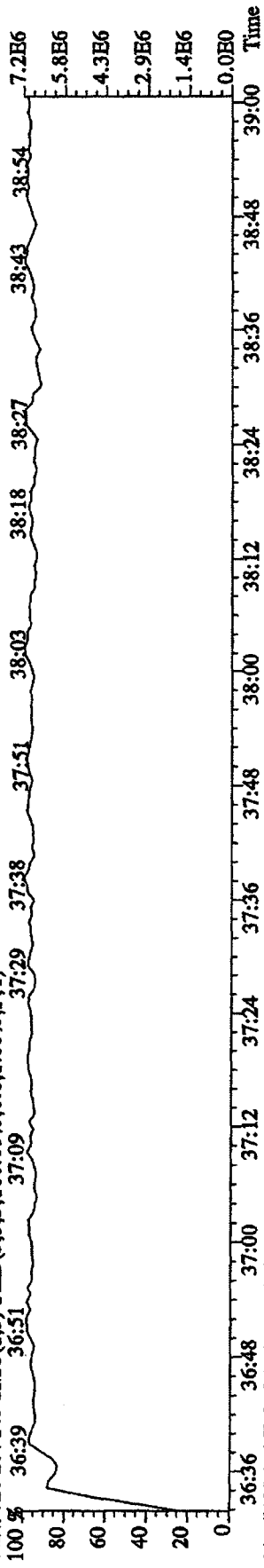
479.7165 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,5528.0,1.00%,F,T)



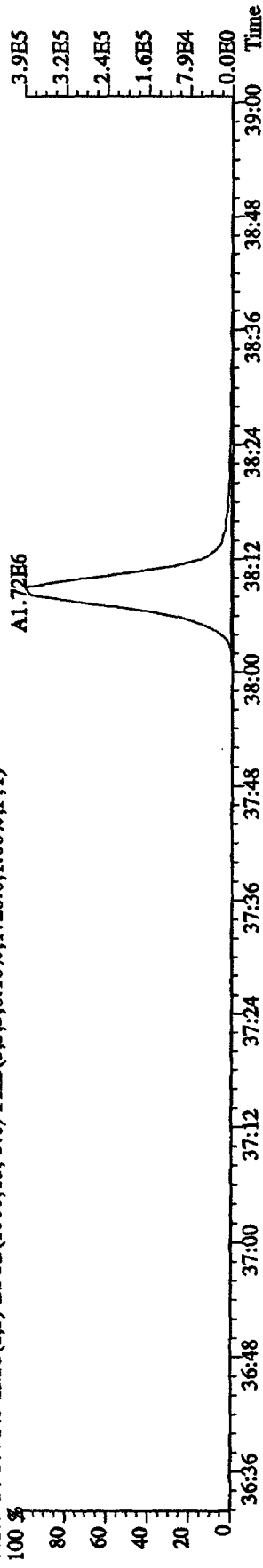
File: 12API04D5 #1-191 Acq: 12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaE

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

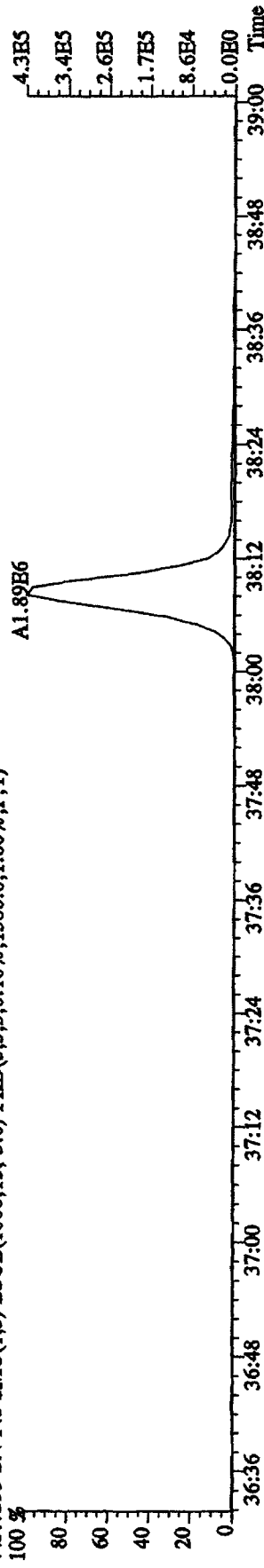
442.9728 S:4 F:5 SMO(1,3) PKD(5,3,3,0,0,1.00%,F,T)



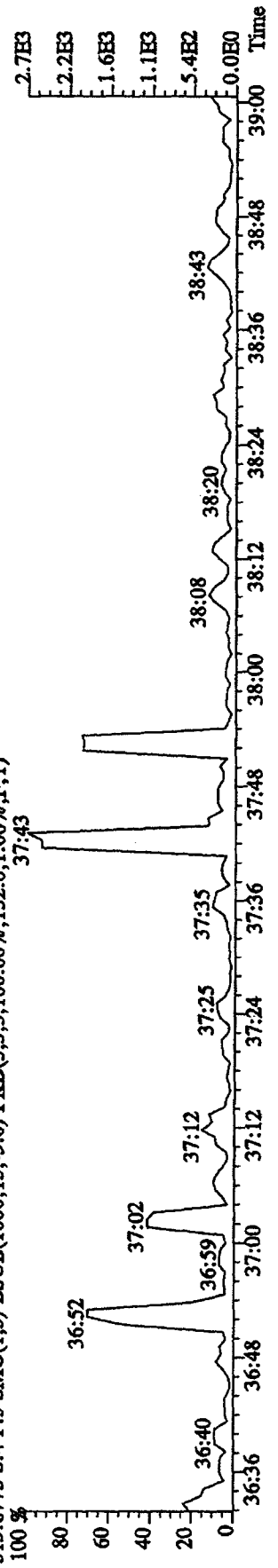
441.7428 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1720.0,1.00%,F,T)



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)

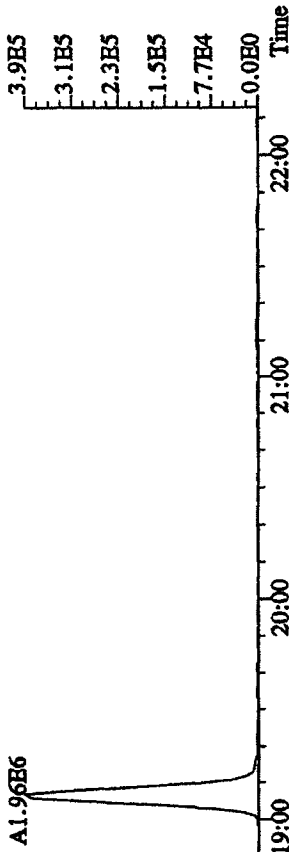


513.6775 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,152.0,1.00%,F,T)

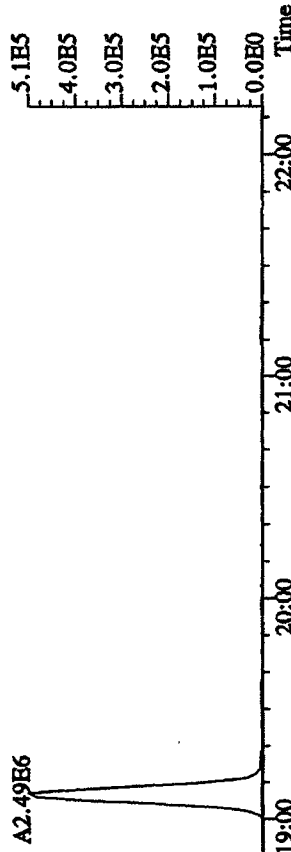


File: 12AP104D5 #1-435 Acq: 12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaE

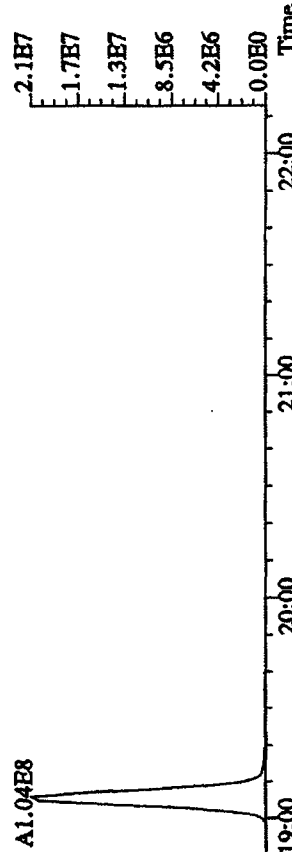
Sample#3 Text: ST0412A :CS-2 09DXN423 Exp: DIOXINRES8290A  
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,616.0,1.00%,F,T)



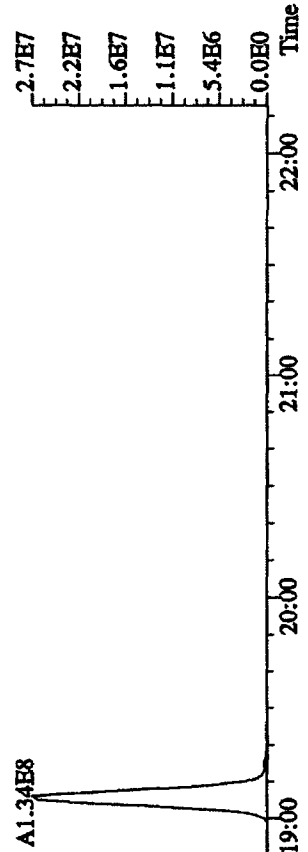
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1644.0,1.00%,F,T)



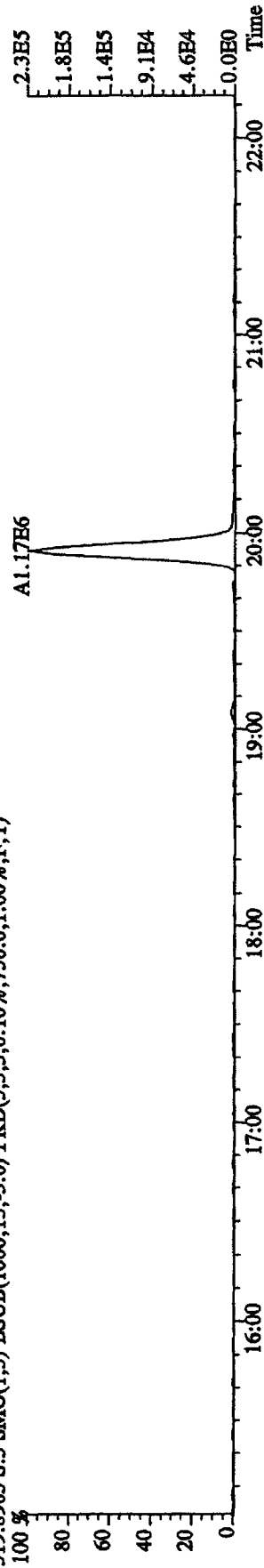
315.9419 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4576.0,1.00%,F,T)



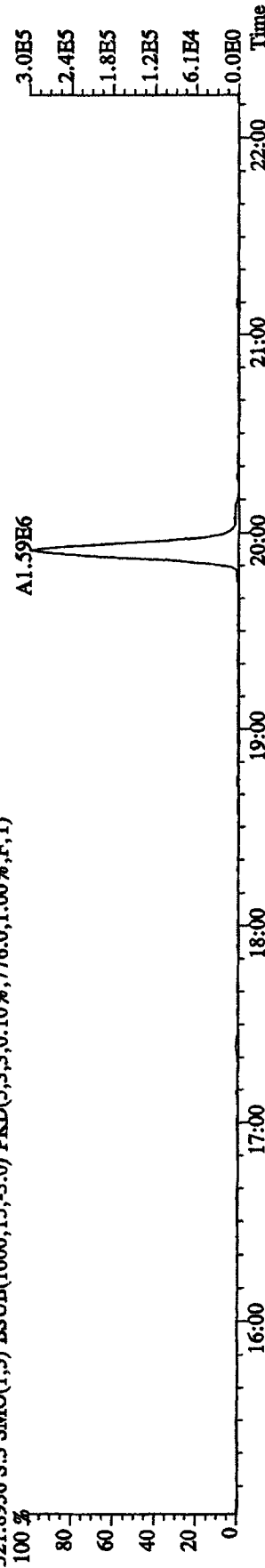
317.9389 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3484.0,1.00%,F,T)



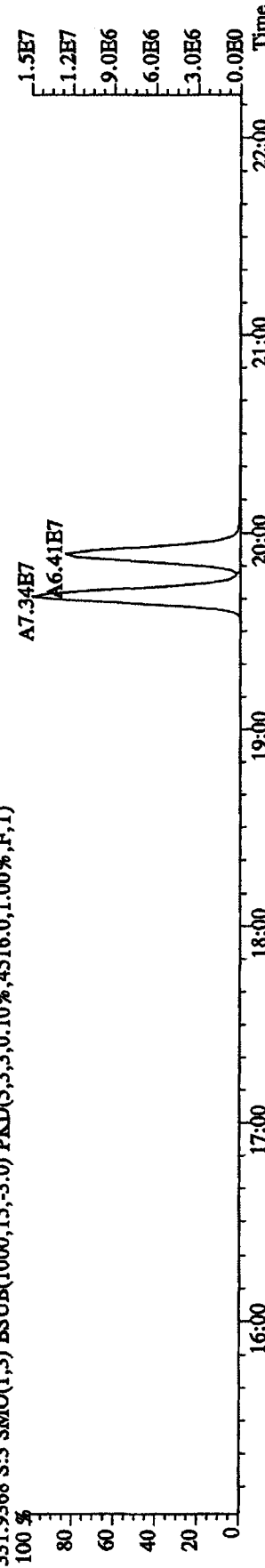
File: 12AP104D5 #1-435 Acq: 12-APR-2010 10:04:44 GC HI+ Voltage SIR Autospec-UltimaB  
 Sample#3 Text: ST0412A :CS-2 09DXN423 Exp: DIOXINRES8290A  
 319.8965 S:3 SMO(1,3) ESUB(1000,15,-3.0) PKD(5,3,3,0.10%,776.0,1.00%,F,T)



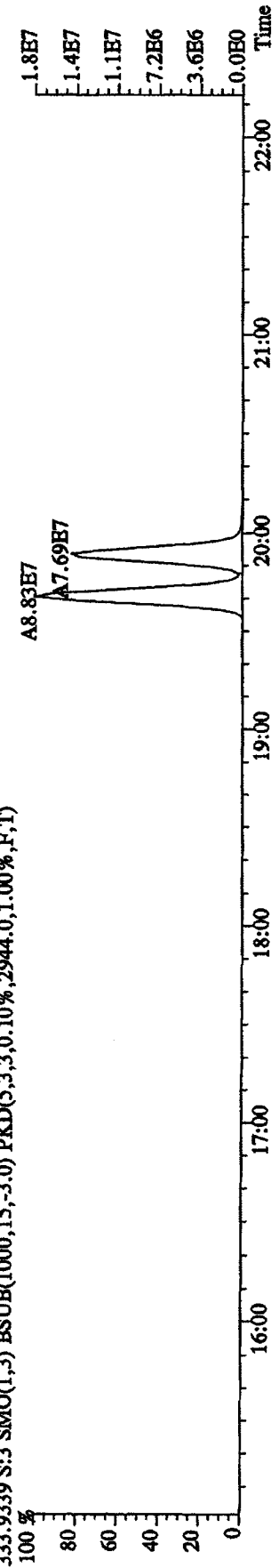
321.8936 S:3 SMO(1,3) ESUB(1000,15,-3.0) PKD(5,3,3,0.10%,776.0,1.00%,F,T)



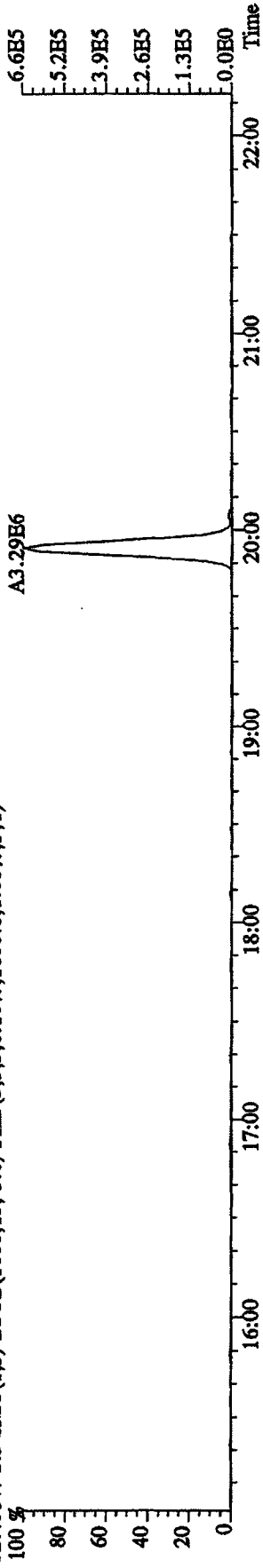
331.9268 S:3 SMO(1,3) ESUB(1000,15,-3.0) PKD(5,3,3,0.10%,4516.0,1.00%,F,T)



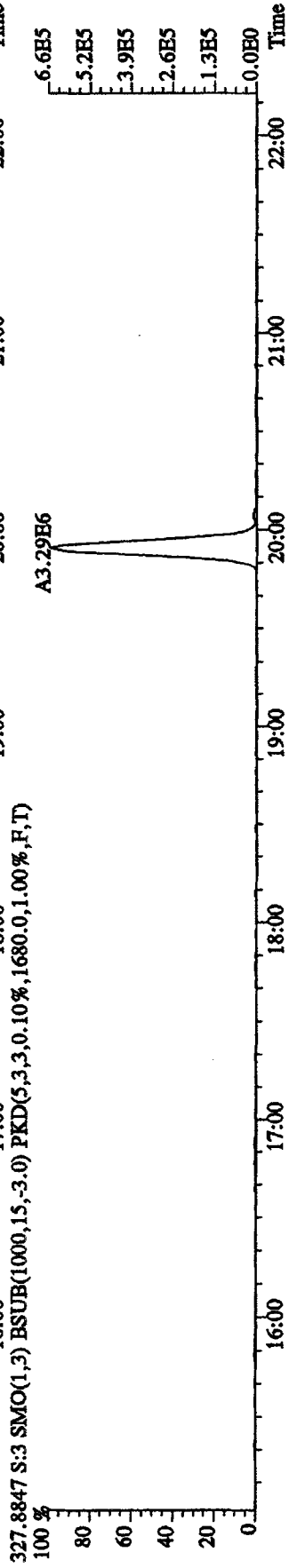
333.9239 S:3 SMO(1,3) ESUB(1000,15,-3.0) PKD(5,3,3,0.10%,2944.0,1.00%,F,T)



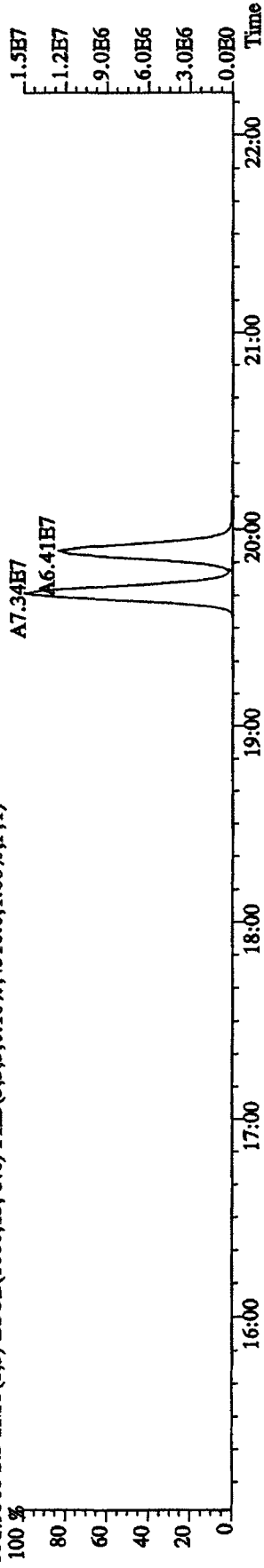
File: 12AP104D5 #1-435 Acq: 12-APR-2010 10:04:44 GC HI + Voltage SIR Autospec-UltimaB  
 Sample#3 Text: ST0412A : CS-2 09DXN423 Exp: DIOXINRES290A  
 327.8847 S:3 SMO(1,3) BSUB(1000,1.5,-3.0) PKD(5,3,3,0.10%,1680.0,1.00%,F,T)



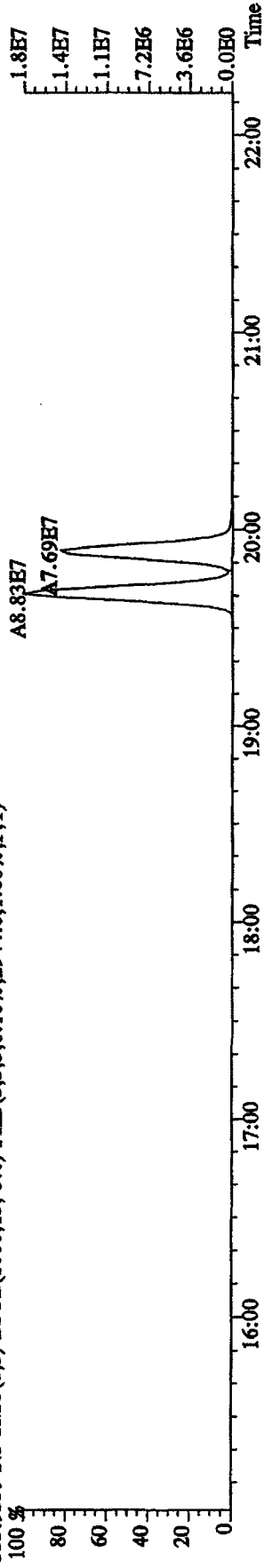
327.8847 S:3 SMO(1,3) BSUB(1000,1.5,-3.0) PKD(5,3,3,0.10%,1680.0,1.00%,F,T)



331.9368 S:3 SMO(1,3) BSUB(1000,1.5,-3.0) PKD(5,3,3,0.10%,4516.0,1.00%,F,T)



333.9339 S:3 SMO(1,3) BSUB(1000,1.5,-3.0) PKD(5,3,3,0.10%,2944.0,1.00%,F,T)

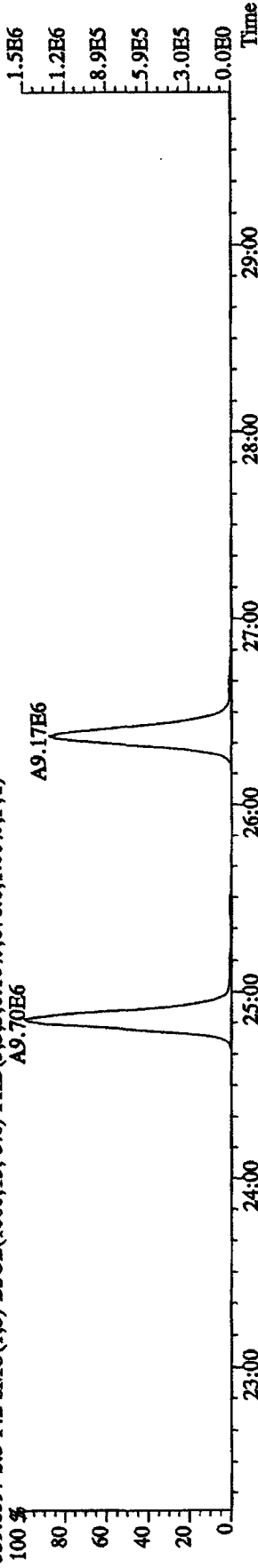


File:12AP104D5 #1-605 Acq:12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaB

Sample#3 Text:ST0412A :CS-2 09DXN423 Exp:DIOXINRES290A

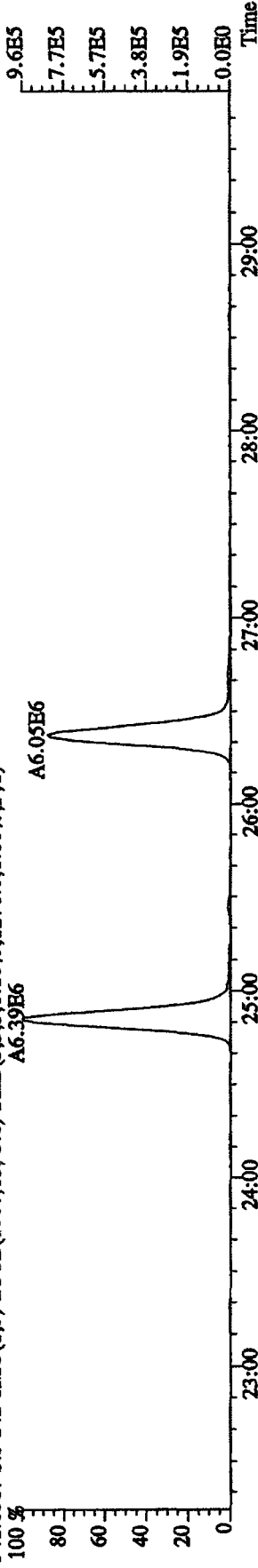
339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,676.0,1.00%,F,T)

100 % A9.70E6



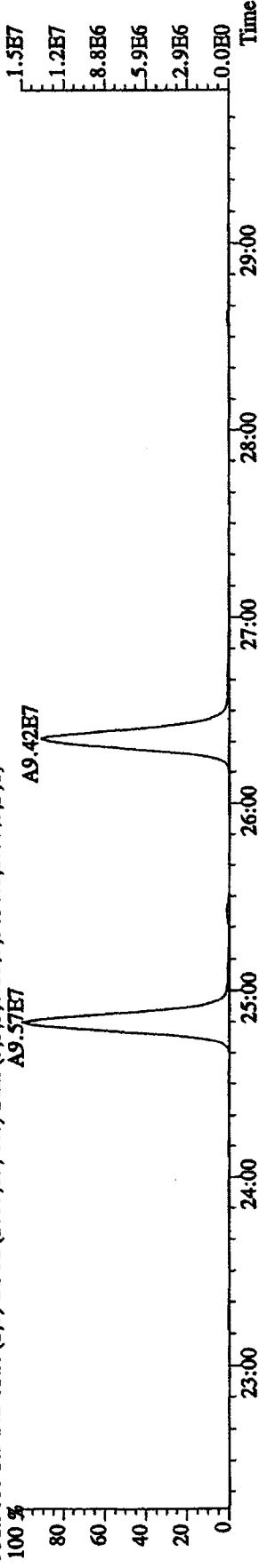
341.8567 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1276.0,1.00%,F,T)

100 % A6.39E6



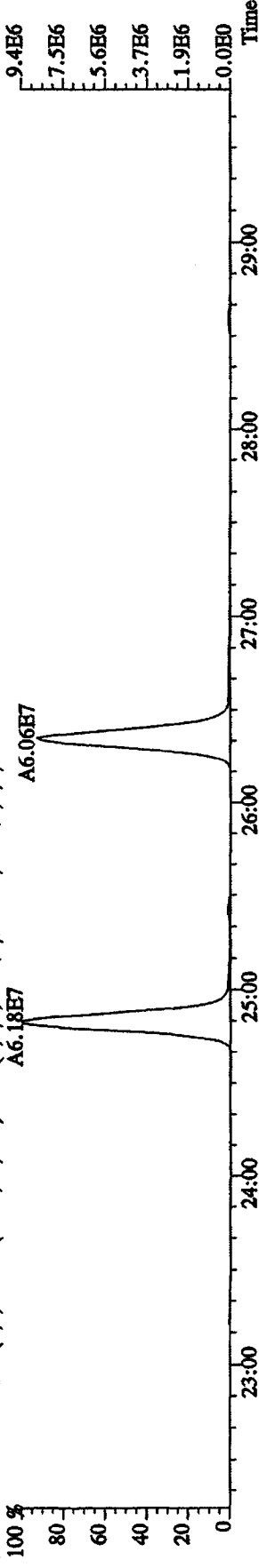
351.9000 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3636.0,1.00%,F,T)

100 % A9.57E7

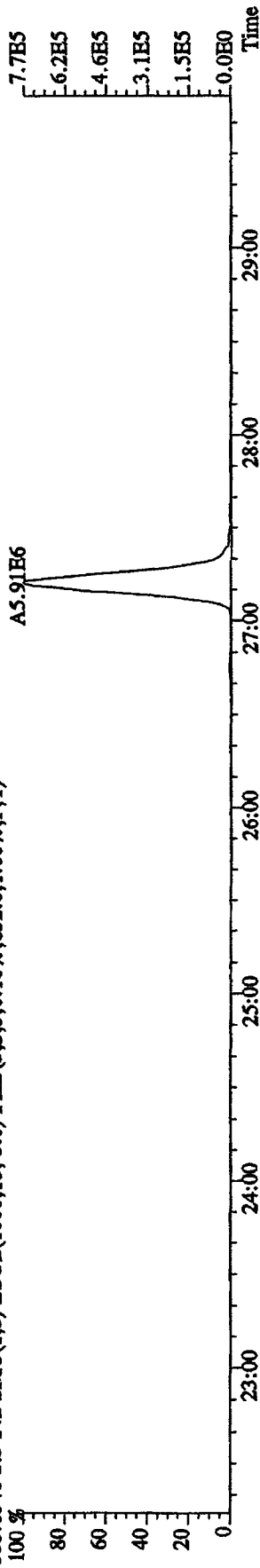


353.8970 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3028.0,1.00%,F,T)

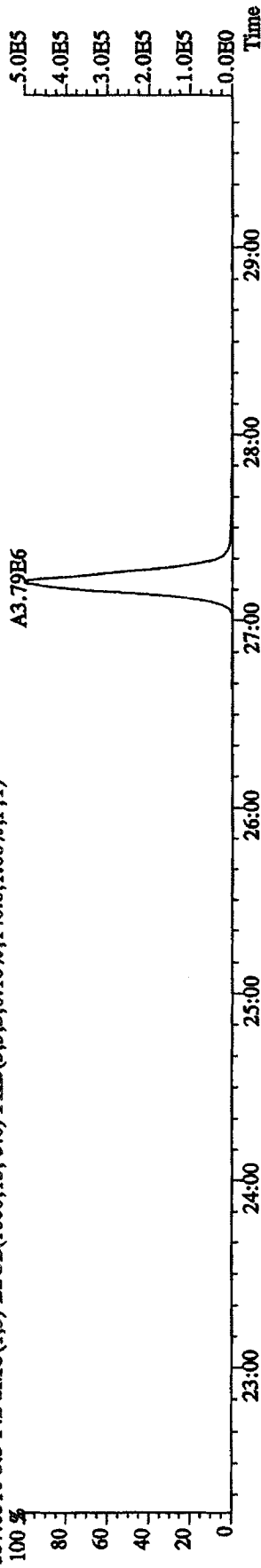
100 % A6.18E7



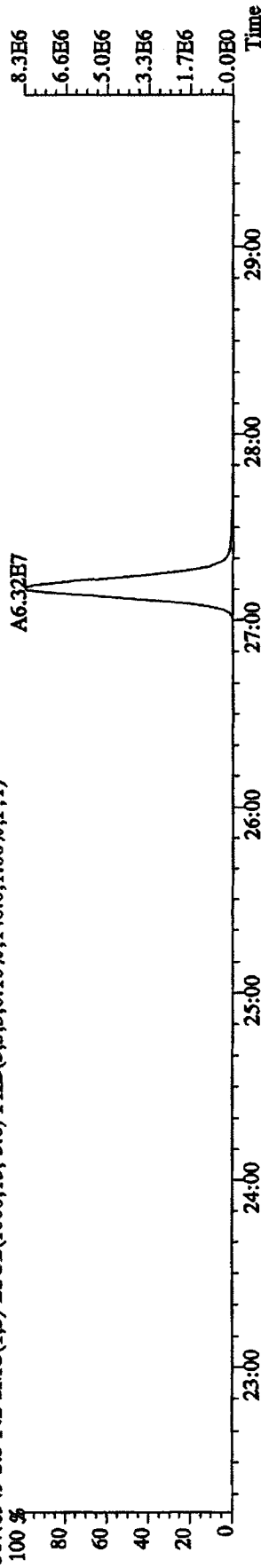
File: 12AP104D5 #1-605 Acq: 12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 Text: ST0412A :CS-2 09DXN423 Exp: DIOXINRHS8290A  
 355.8546 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,832.0,1.00%,F,T)



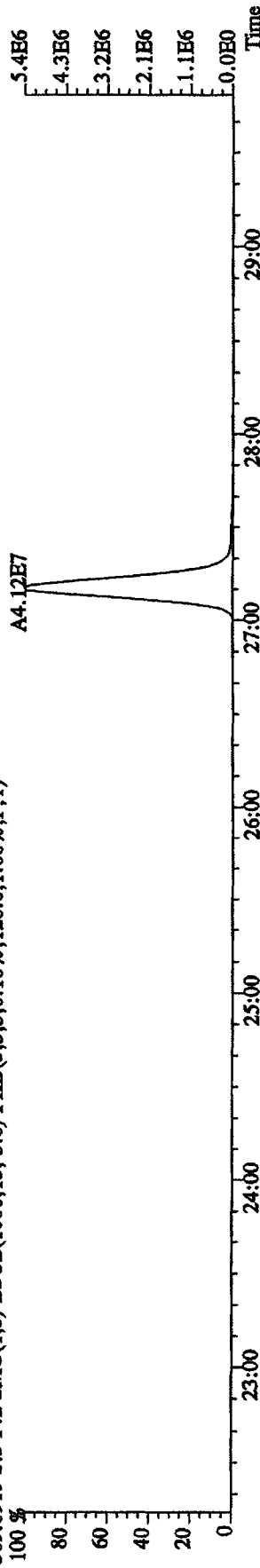
357.8516 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,140.0,1.00%,F,T)



367.8949 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,148.0,1.00%,F,T)



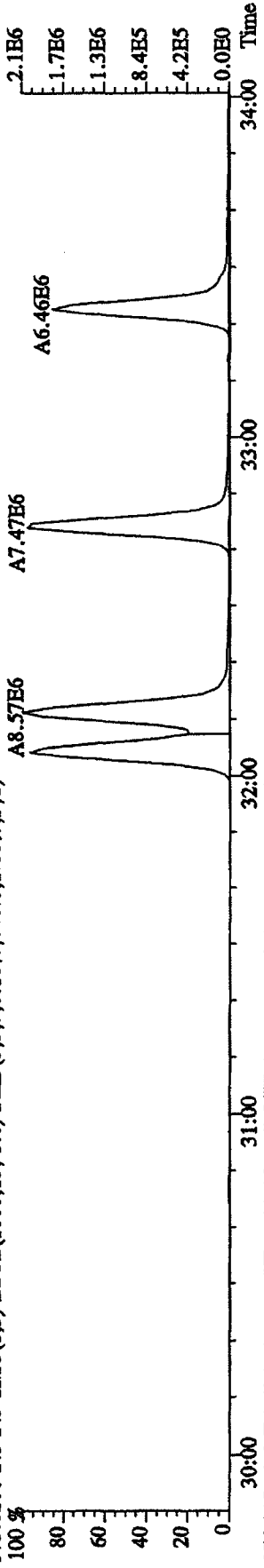
369.8919 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,128.0,1.00%,F,T)



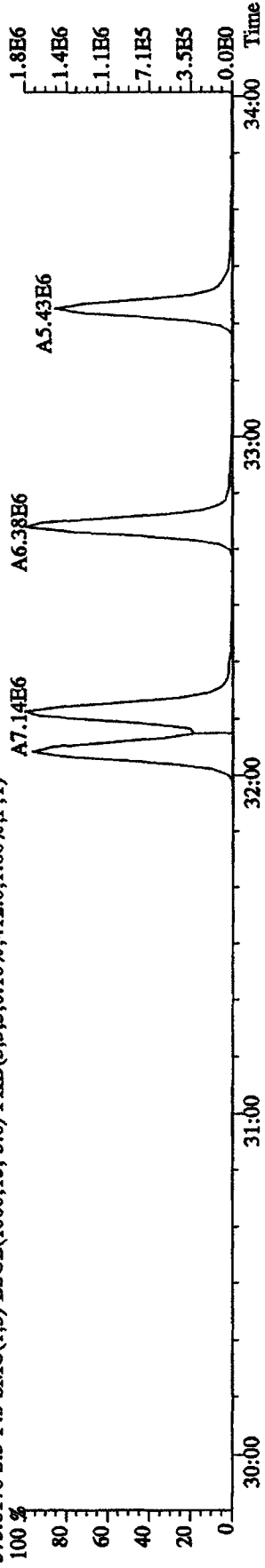


File: 12API04D5 #1-317 Acq: 12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaE

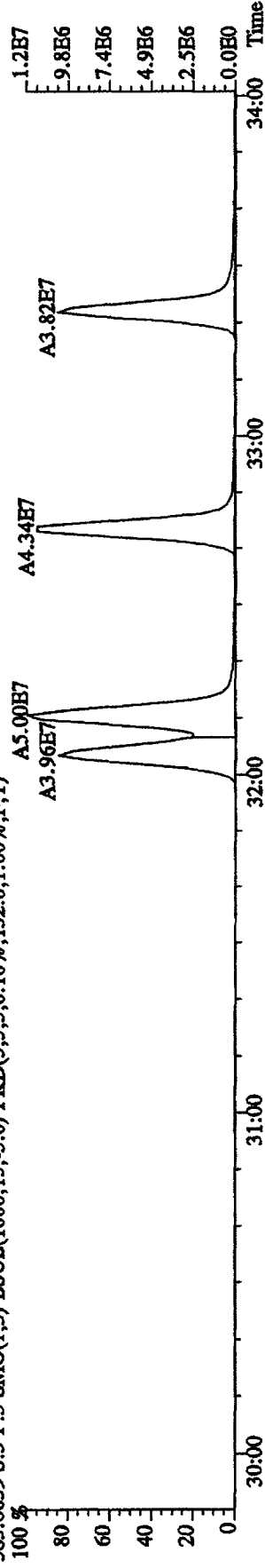
Sample#3 Text: ST0412A : CS-2 09DXN423 Exp: DIOXINRES8290A  
373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,412.0,1.00%,F,T)



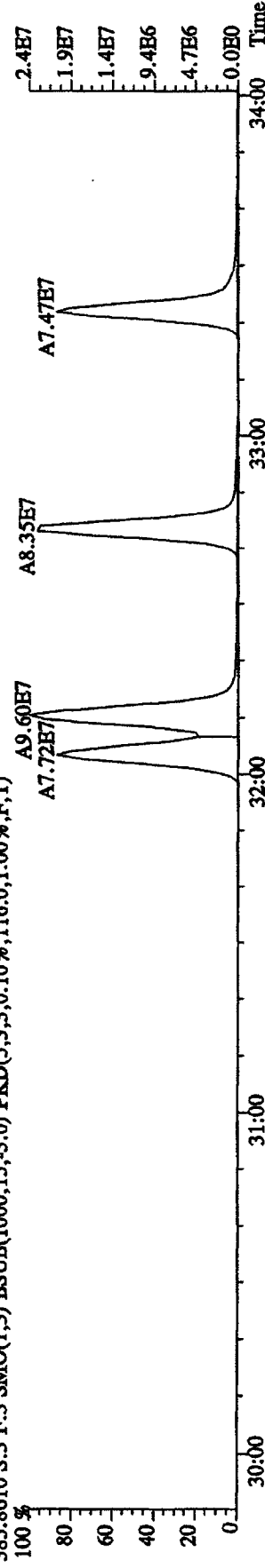
375.8178 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,412.0,1.00%,F,T)



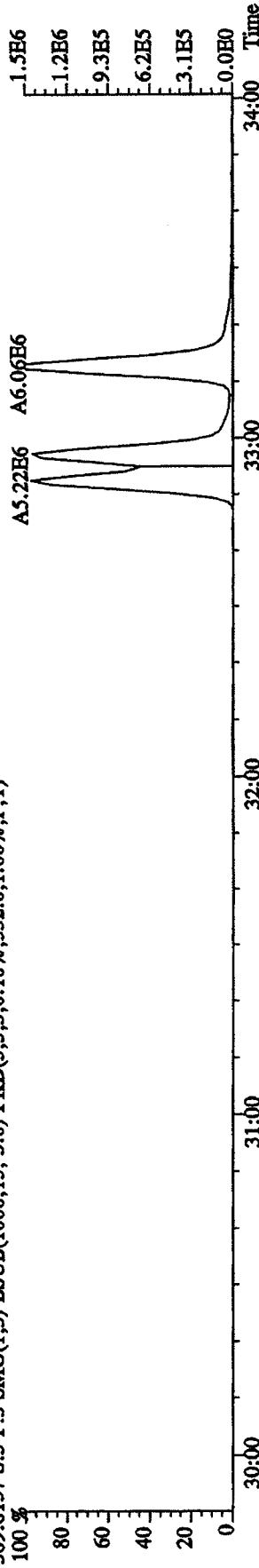
383.8639 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,132.0,1.00%,F,T)



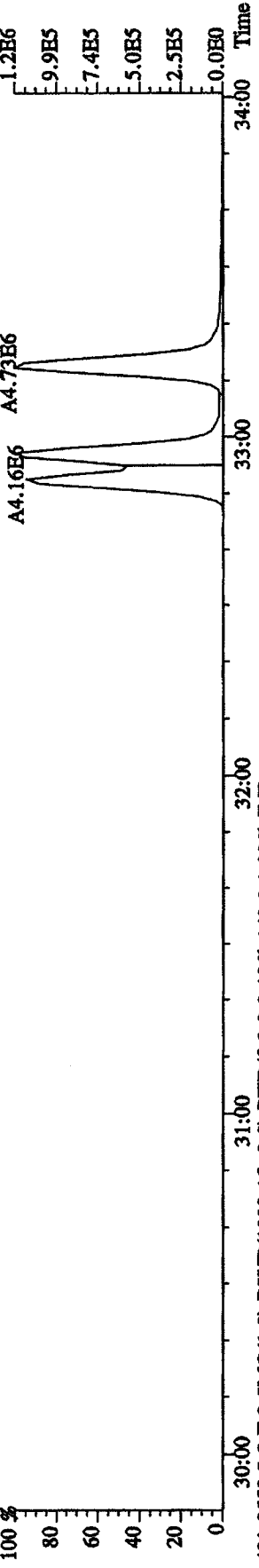
385.8610 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,116.0,1.00%,F,T)



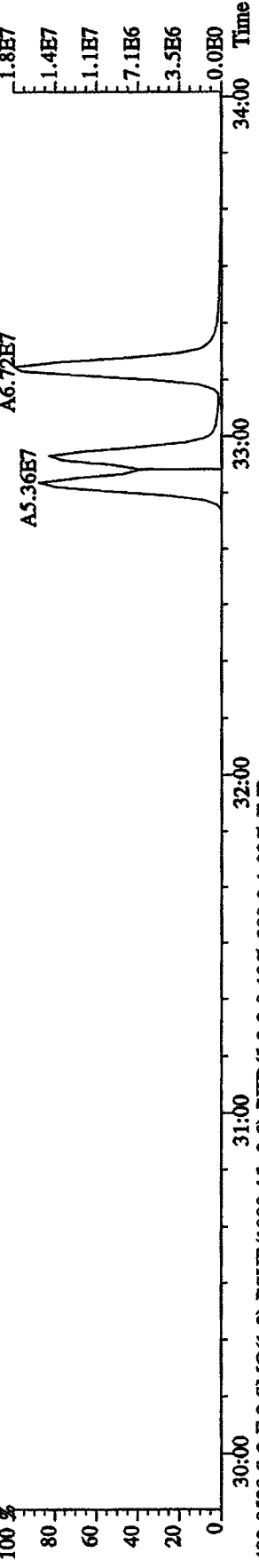
File: 12AP104D5 #1-317 Acq: 12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 Text: ST0412A : CS-2 09DXN423 Exp: DIOXINRES8290A  
 389.8157 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,532.0,1.00%,F,T)



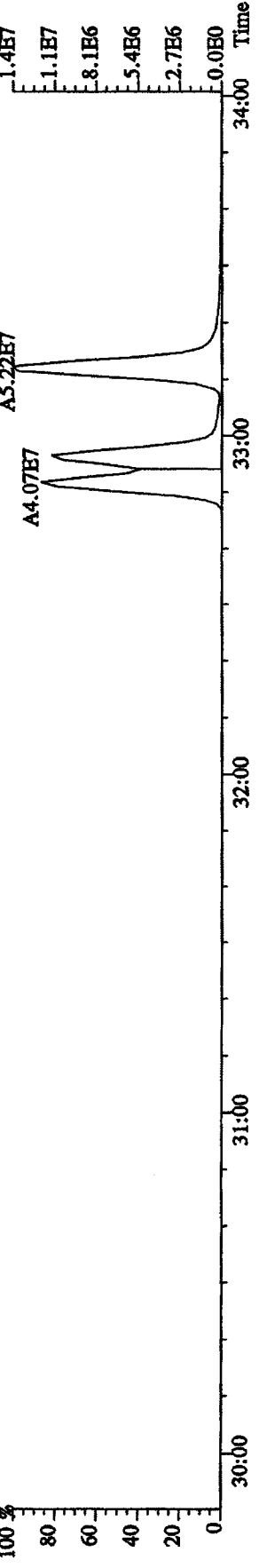
391.8127 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,772.0,1.00%,F,T)



401.8559 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,140.0,1.00%,F,T)



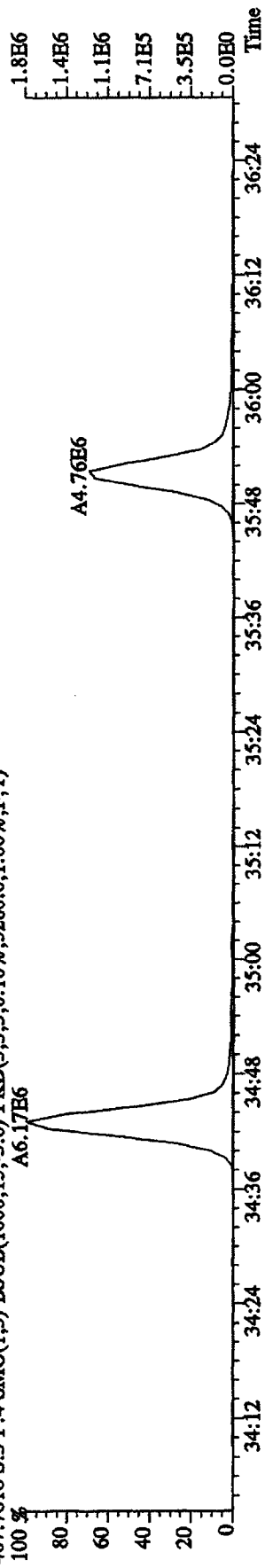
403.8529 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,200.0,1.00%,F,T)



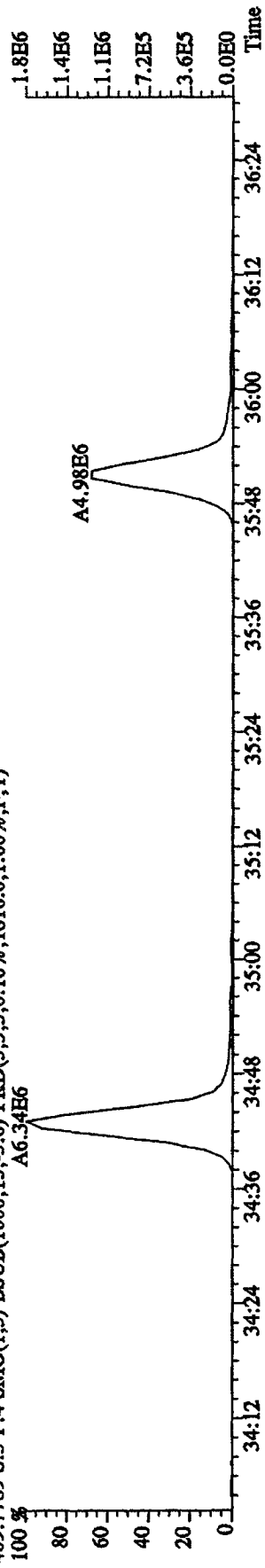
File:12API04D5 #1-198 Acq:12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaB

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

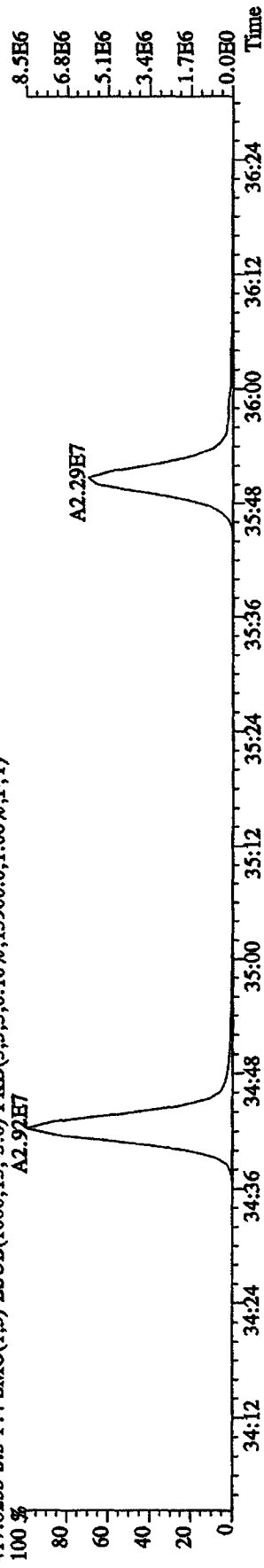
407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5260.0,1.00%,F,T)



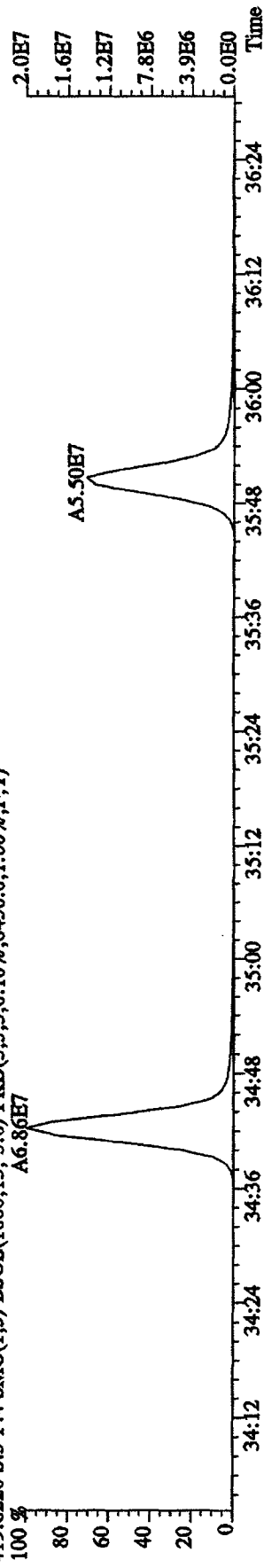
409.7789 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1816.0,1.00%,F,T)



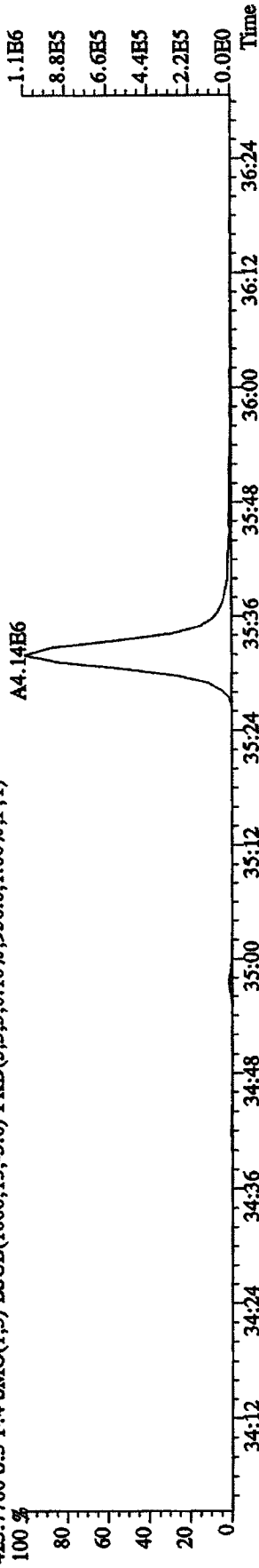
417.8253 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,13900.0,1.00%,F,T)



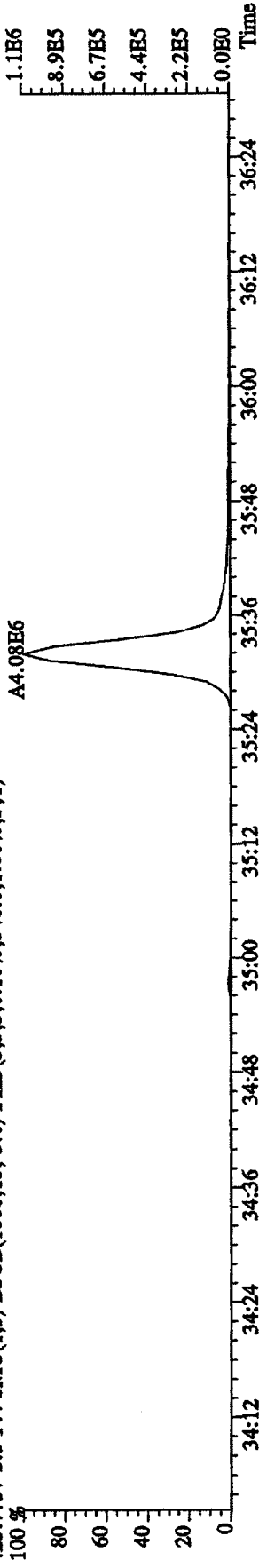
419.8220 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,8456.0,1.00%,F,T)



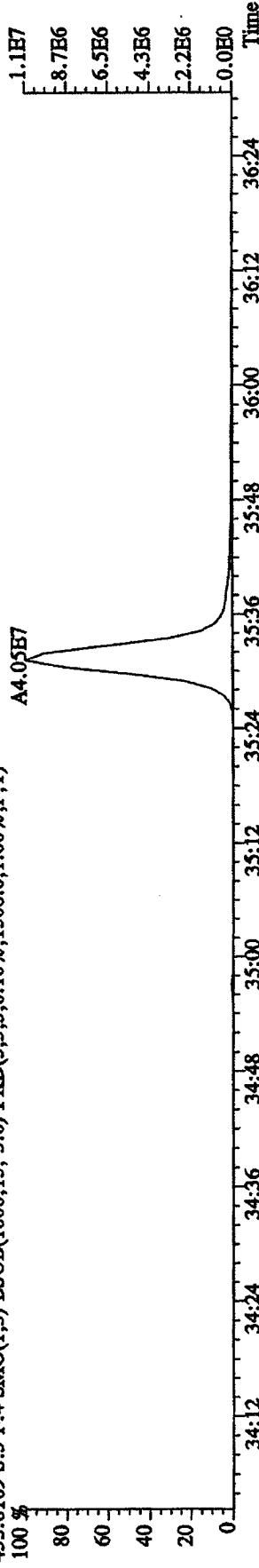
File: 12AP104D5 #1-198 Acq: 12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 Text: ST0412A :CS-2 09DXN423 Exp: DIOXINRES8290A  
 423.7766 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,956.0,1.00%,F,T)



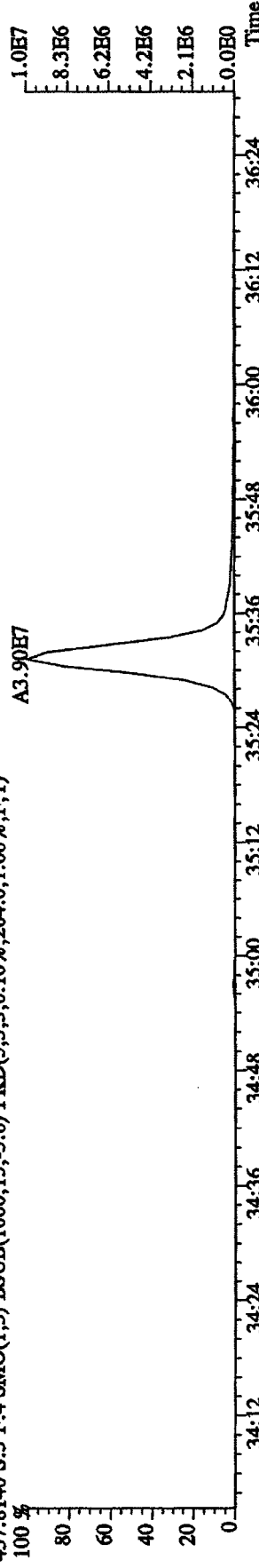
425.7737 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,540.0,1.00%,F,T)



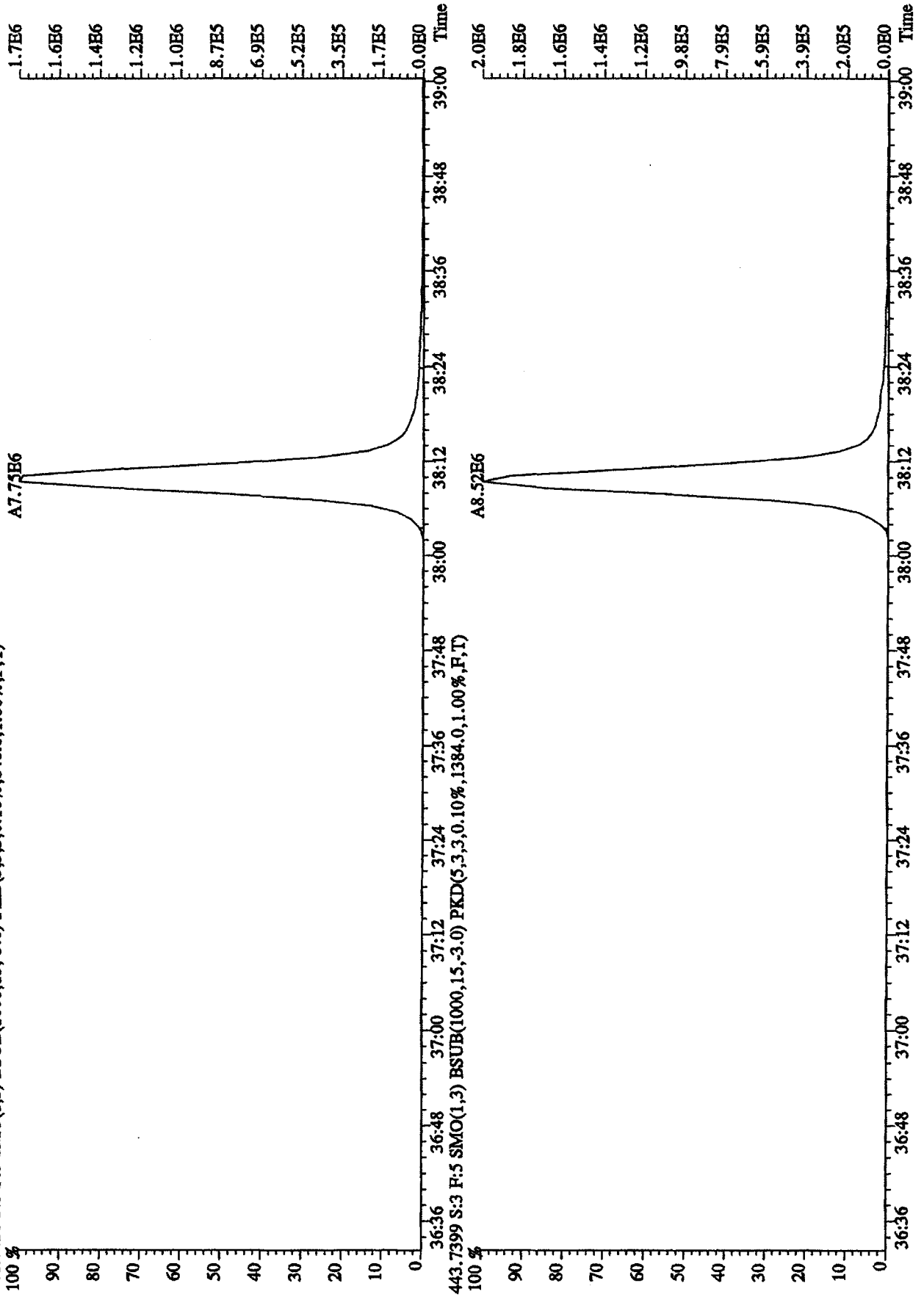
435.8169 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1508.0,1.00%,F,T)



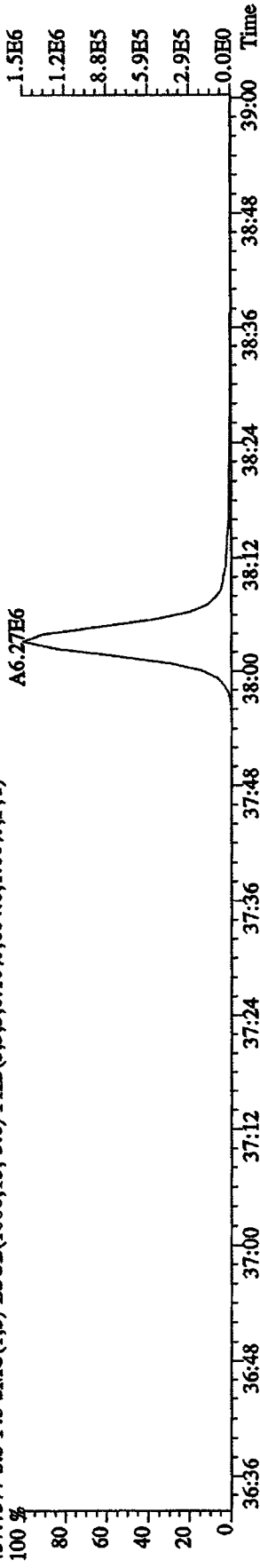
437.8140 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,264.0,1.00%,F,T)



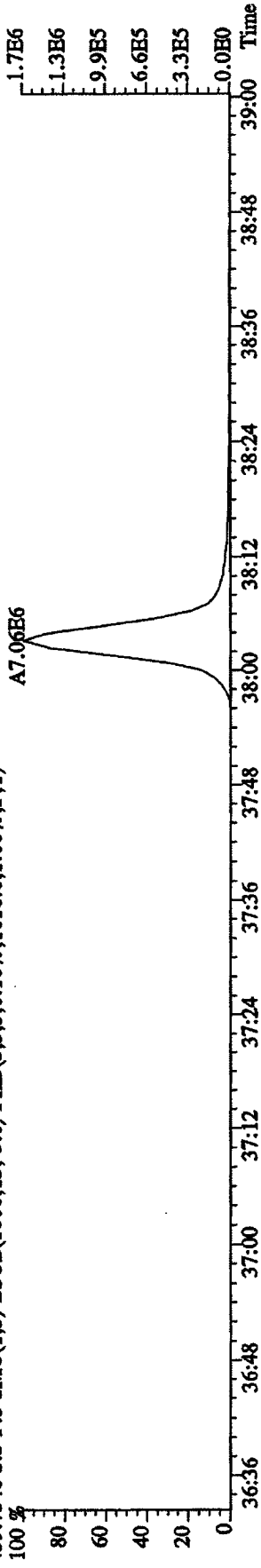
File: 12AP104D5 #1-190 Acq: 12-APR-2010 10:04:44 GC EI+ Voltage SIR, Autospec-UltimaE  
 Sample#3 Text: ST0412A :CS-2 09DXN423 Exp: DIOXINRES8290A  
 441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1384,0,1.00%,F,T)



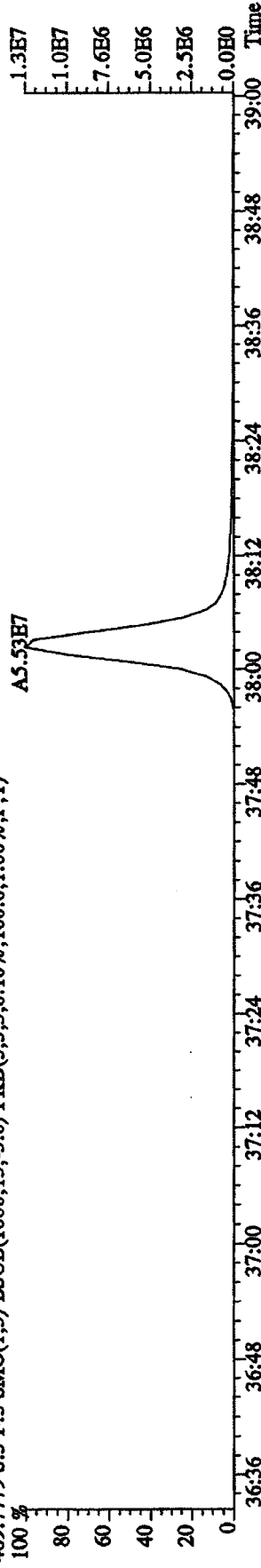
File: 12AP104D5 #1-190 Acq: 12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 Text: ST0412A : CS-2 09DXN423 Exp: DIOXINRES8290A  
 457.7377 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,604.0,1.00%,F,T)



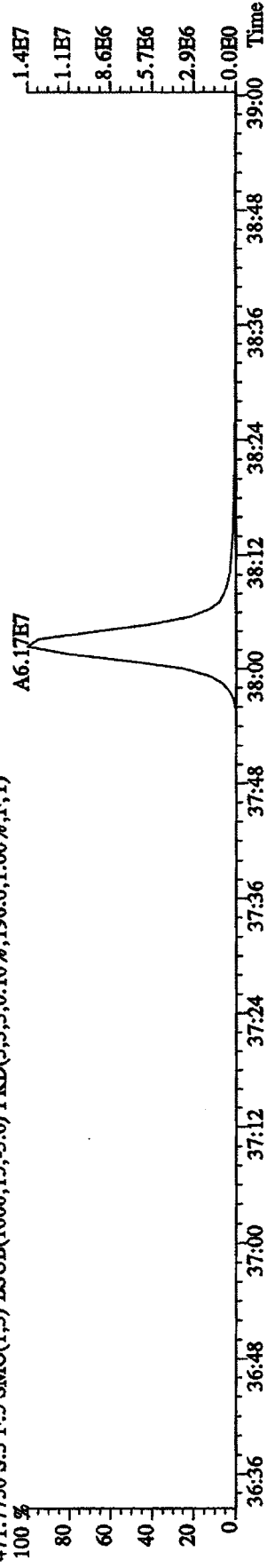
459.7348 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1616.0,1.00%,F,T)



469.7779 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,100.0,1.00%,F,T)



471.7750 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,196.0,1.00%,F,T)

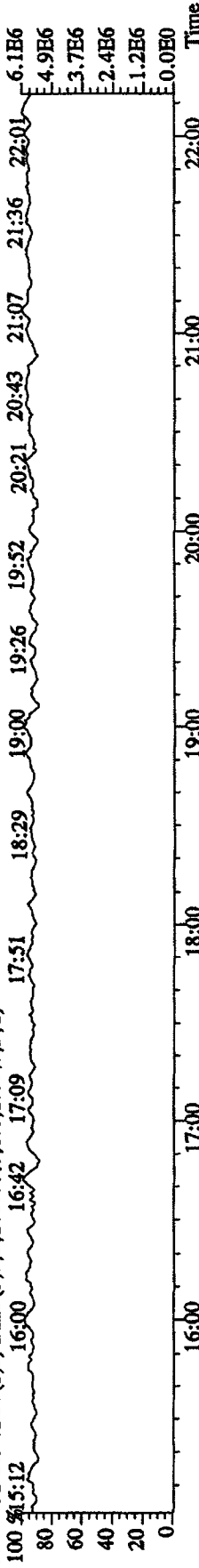


File:12AP104D5 #1-435 Acq:12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaE

Sample#3 Text:ST0412A :CS-2 09DXN423 Exp:DIOXINRES290A

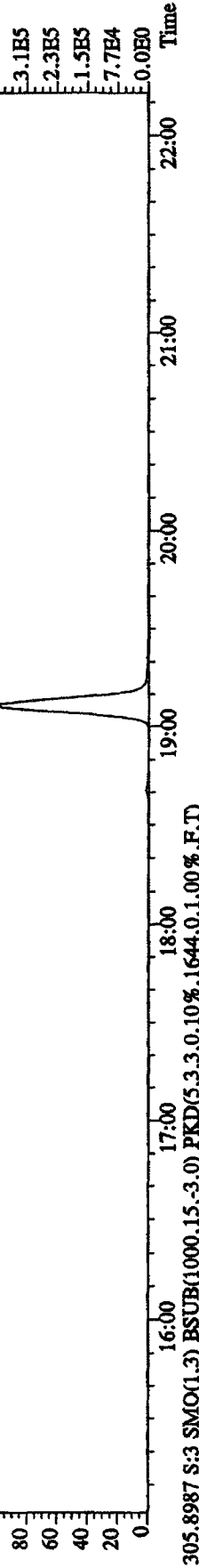
354.9792 S:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

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



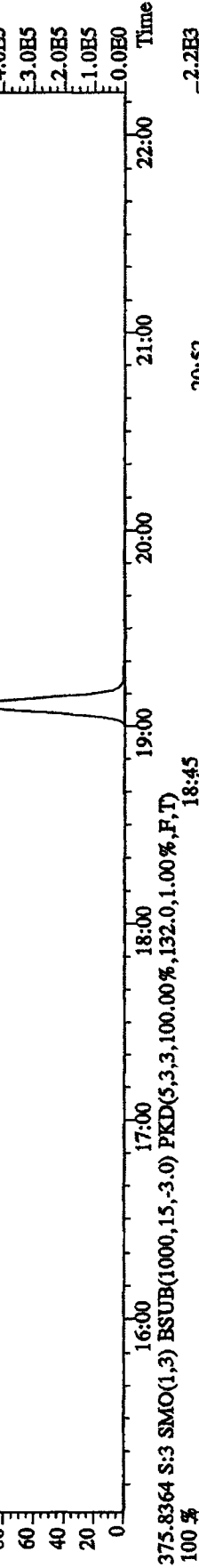
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,616.0,1.00%,F,T)

100 16:00 17:00 18:00



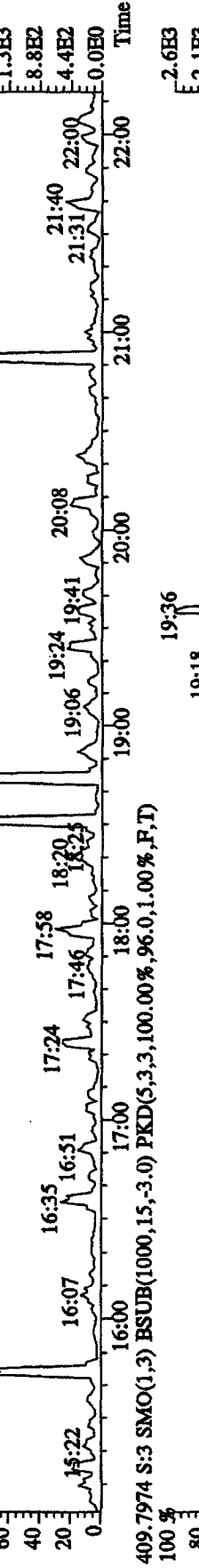
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1644.0,1.00%,F,T)

100 16:00 17:00 18:00



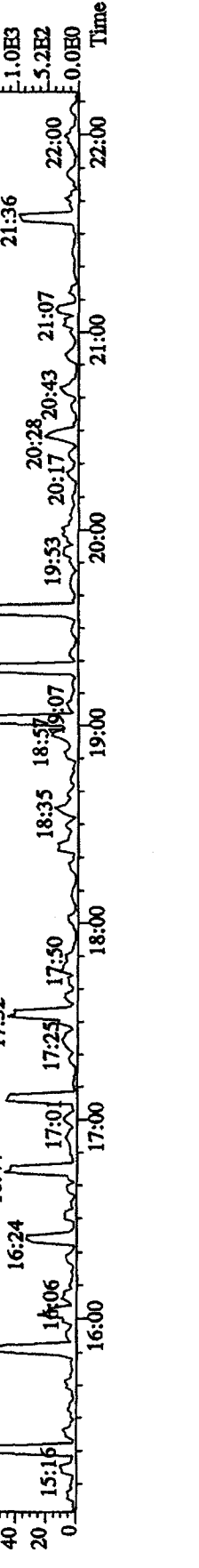
375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,132.0,1.00%,F,T)

100 16:00 17:00 18:00



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

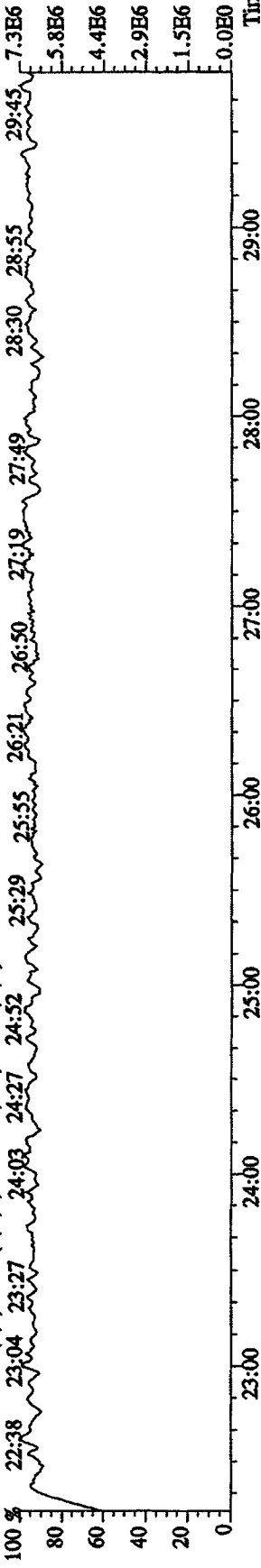
100 16:00 17:00 18:00



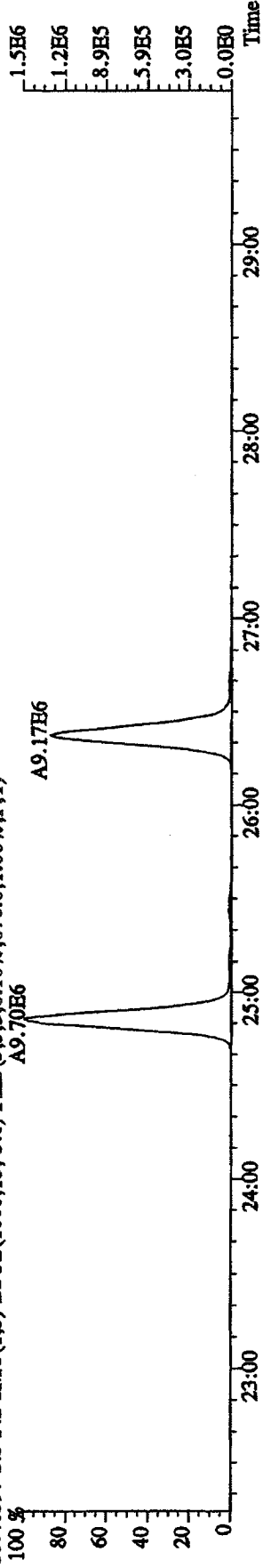
File:12AP104D5 #1-605 Acq:12-APR-2010 10:04:44 GC HI + Voltage SIR Autospec-UltimaB

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

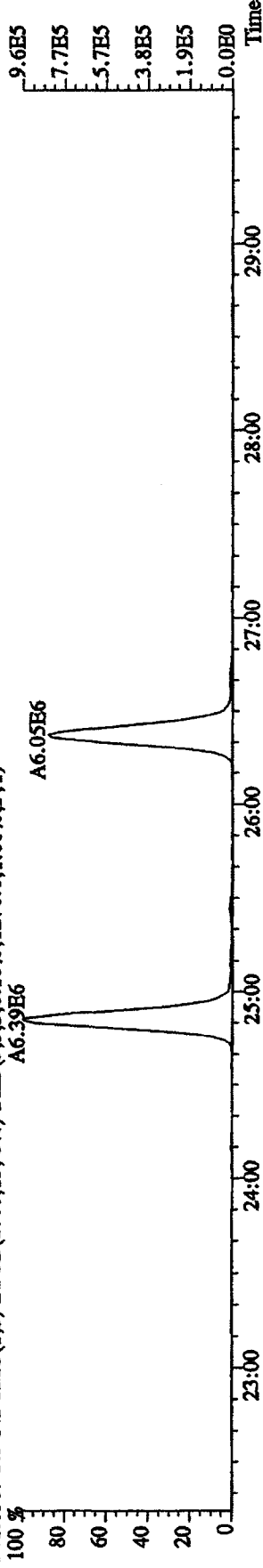
354.9792 S:3 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



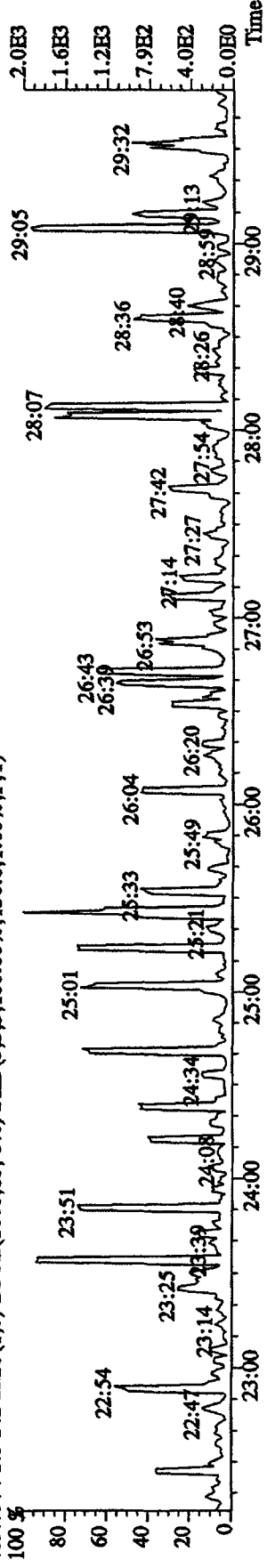
339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,676.0,1.00%,F,T)



341.8567 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1276.0,1.00%,F,T)



409.7974 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,136.0,1.00%,F,T)



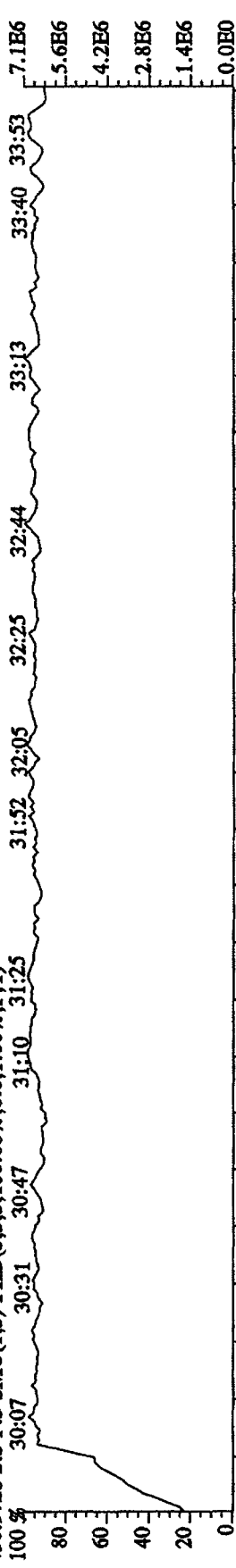


File:12AP104D5 #1-317 Acq:12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaB

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

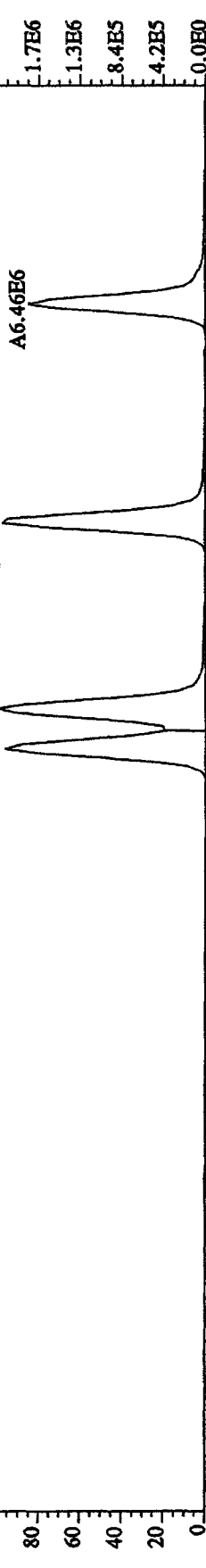
430.9728 S:3 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 % 30:07 30:31 30:47 31:10 31:25 31:52 32:05 32:25 32:44 33:13 33:40 33:53



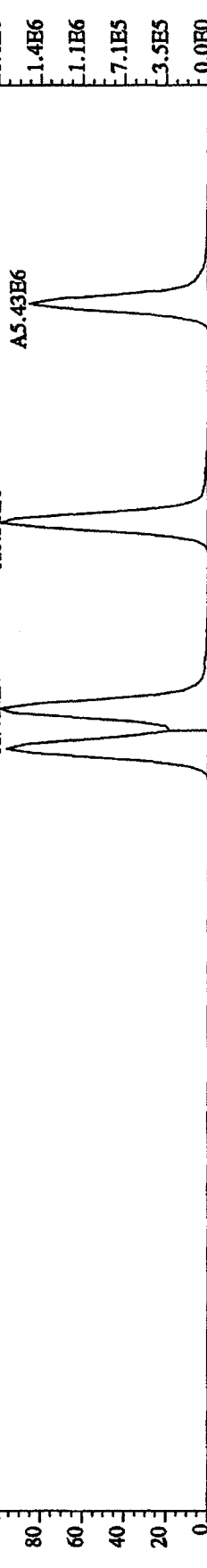
373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,808.0,1.00%,F,T)

100 % 30:00 31:00 32:00 33:00 34:00 Time



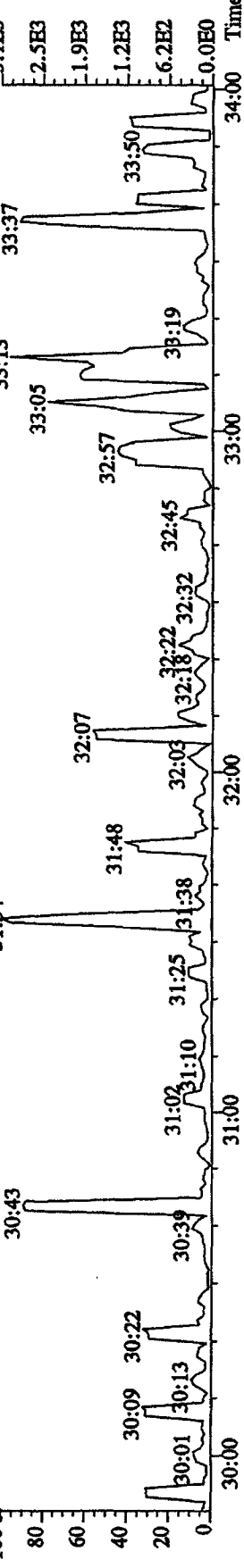
375.8178 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,412.0,1.00%,F,T)

100 % 30:00 31:00 32:00 33:00 34:00 Time



445.7555 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,140.0,1.00%,F,T)

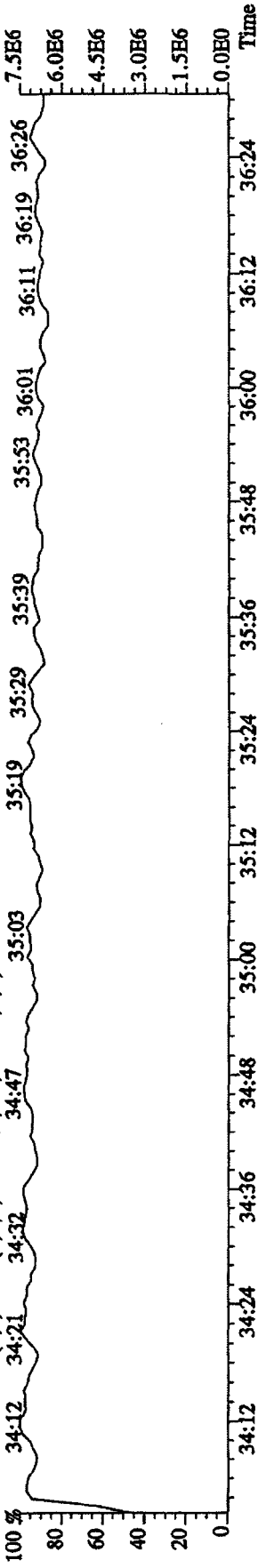
100 % 30:00 31:00 32:00 33:00 34:00 Time



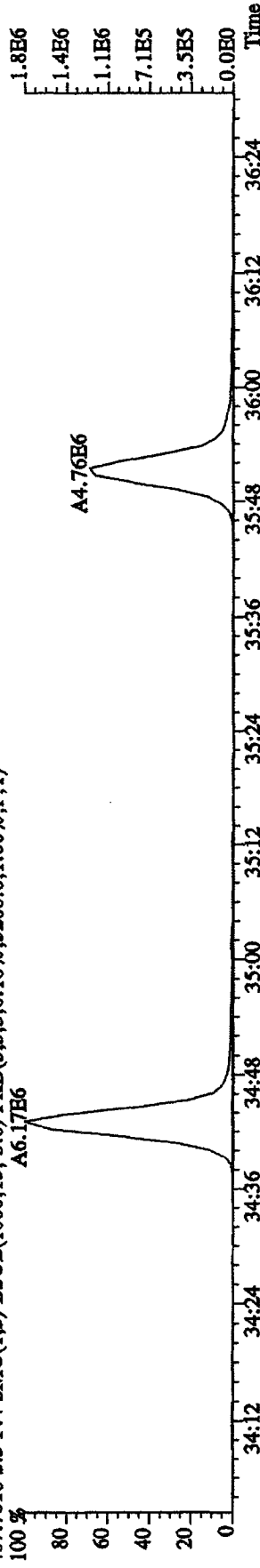
File: 12AP104D5 #1-198 Acq: 12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaE

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

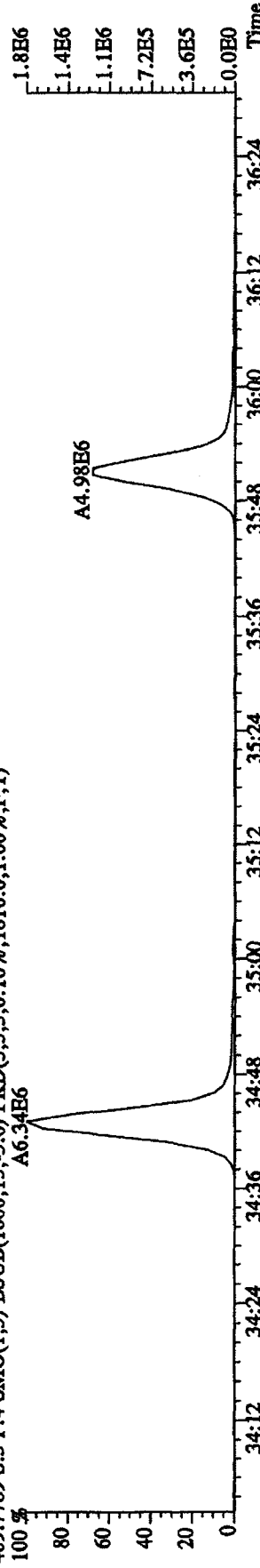
430.9728 S:3 F:4 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)



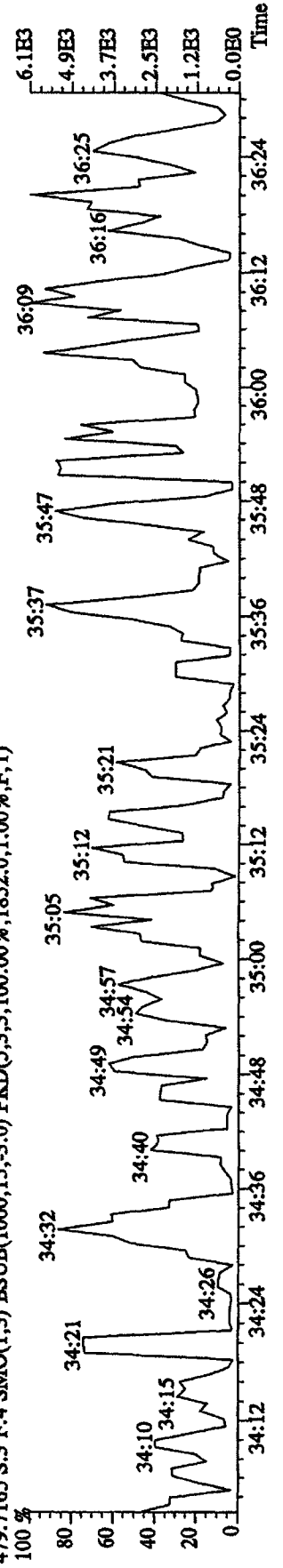
407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5260.0,1.00%,F,T)



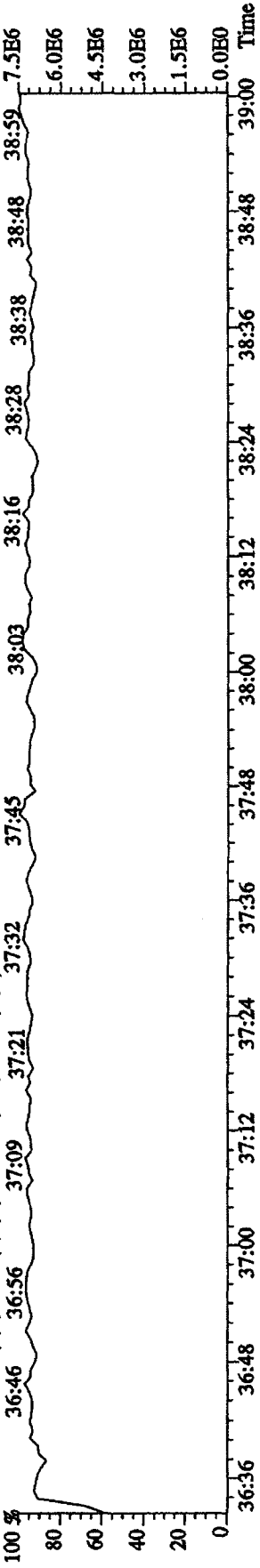
409.7789 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1816.0,1.00%,F,T)



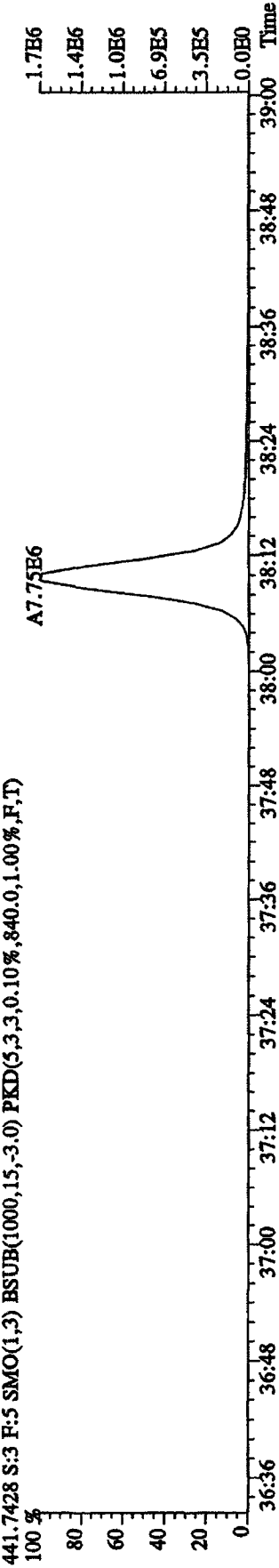
479.7165 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1852.0,1.00%,F,T)



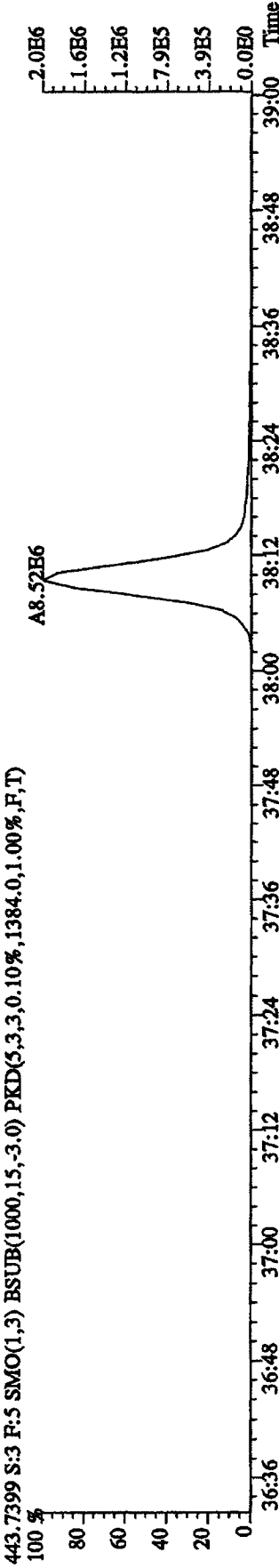
File: 12API04D5 #1-190 Acq: 12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#3 Text: ST0412A : CS-2 09DXN423 Exp: DIOXINRES8290A  
 442.9728 S:3 F:5 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)  
 100 % 36:46 36:56 37:09 37:21 37:32 37:45 38:03 38:16 38:28 38:38 38:48 38:59 7.5E6



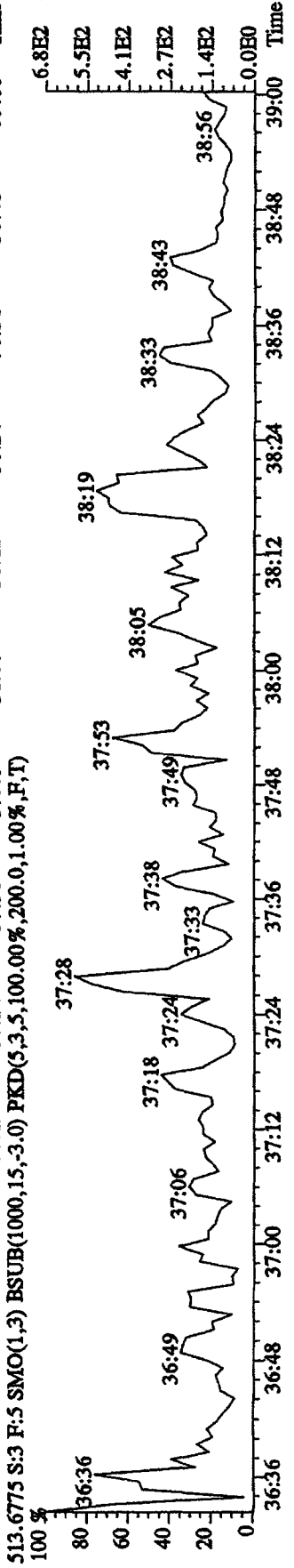
441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,840.0,1.00%,F,T)  
 100 % 36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time



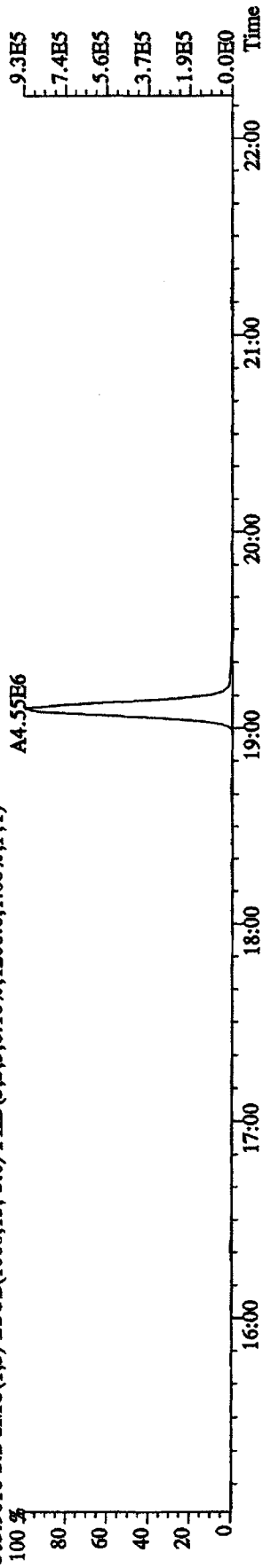
443.7399 S:3 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1384.0,1.00%,F,T)  
 100 % 36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time



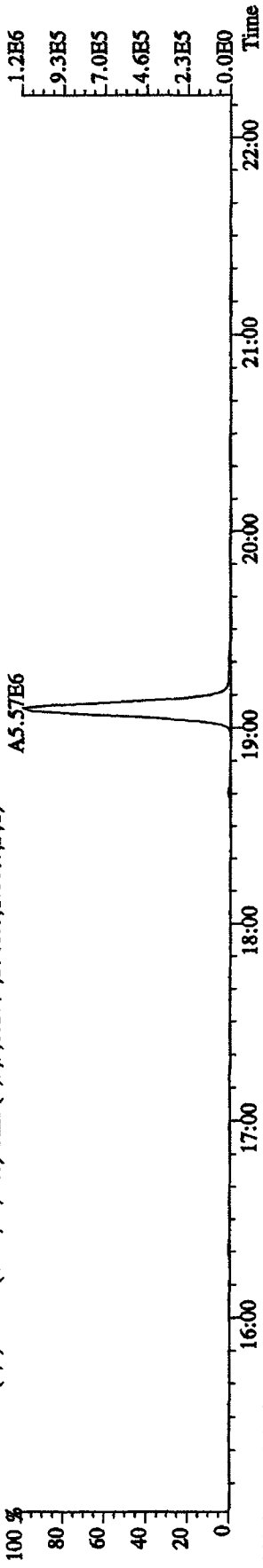
513.6775 S:3 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,5,100.00%,200.0,1.00%,F,T)  
 100 % 36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 Time



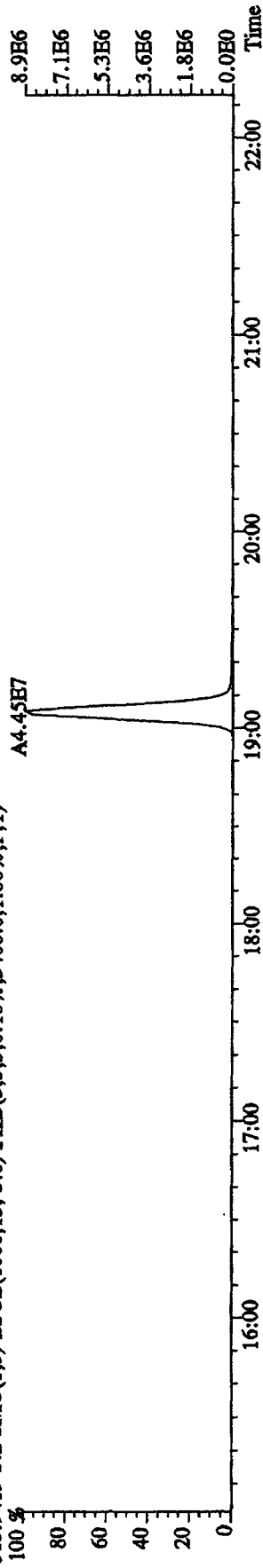
File: 12API04D5 #1-435 Acq: 12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#2 Text: ST0412 :CS-3 10DXN111 Exp: DIOXINRES8290A  
303.9016 S:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,1208.0,1.00%,F,T)



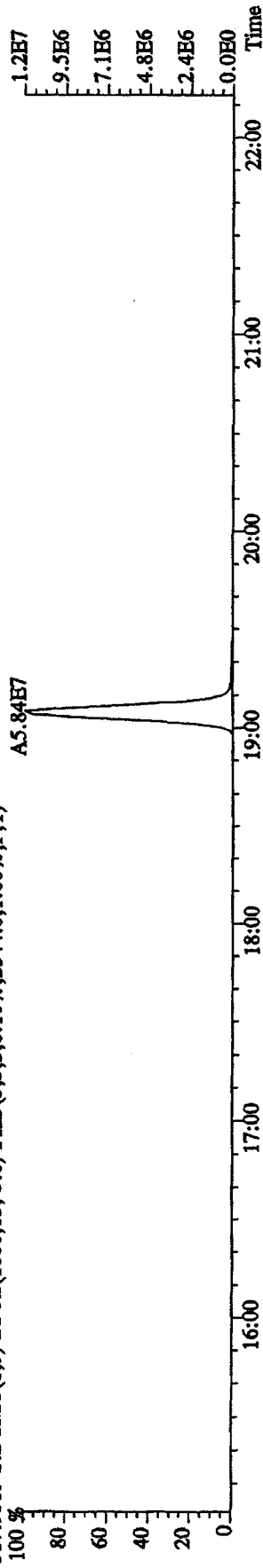
305.8987 S:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,1740.0,1.00%,F,T)



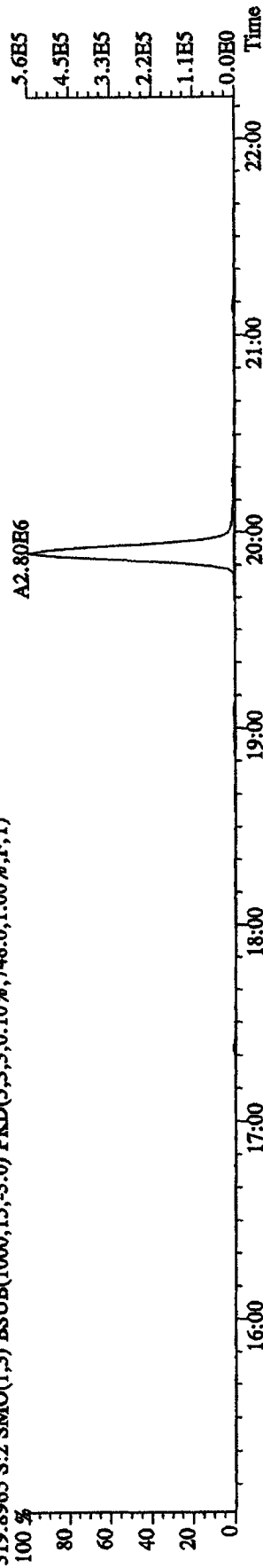
315.9419 S:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,3408.0,1.00%,F,T)



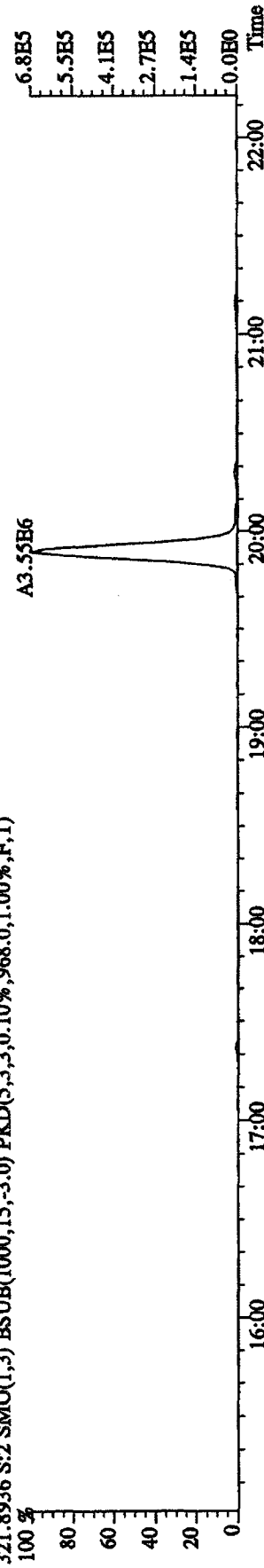
317.9389 S:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,2544.0,1.00%,F,T)



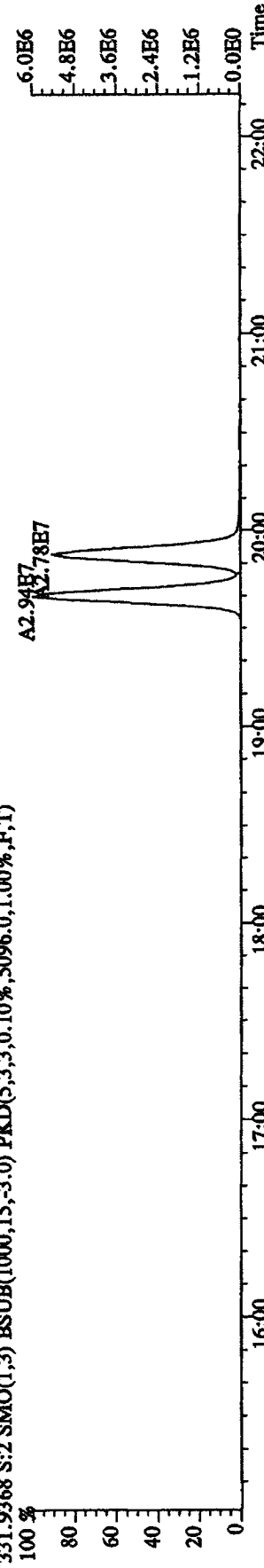
File:12API04D5 #1-435 Acq:12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 Text:ST0412 :CS-3 10DXN111 Exp:DIOXINRES8290A  
 319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,748.0,1.00%,F,T)



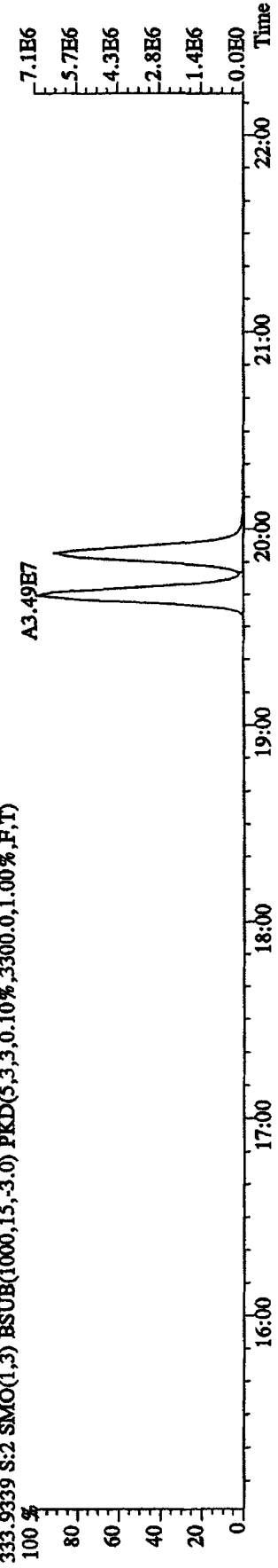
321.8936 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,968.0,1.00%,F,T)



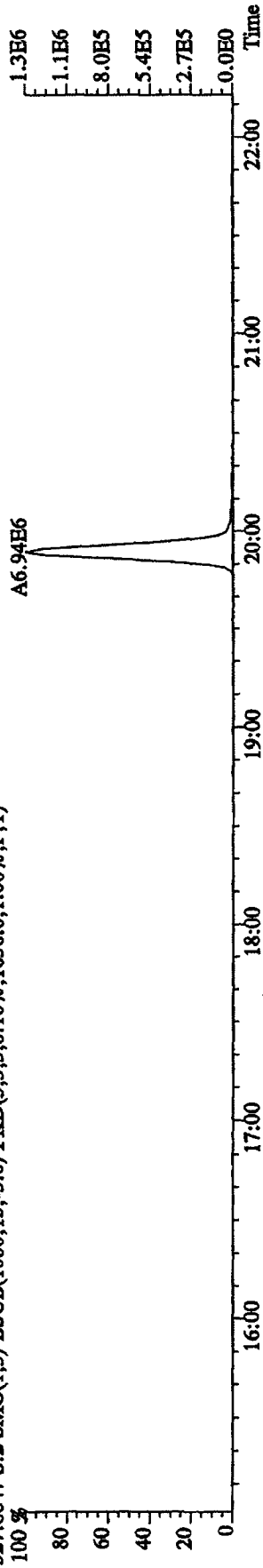
331.9368 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5096.0,1.00%,F,T)



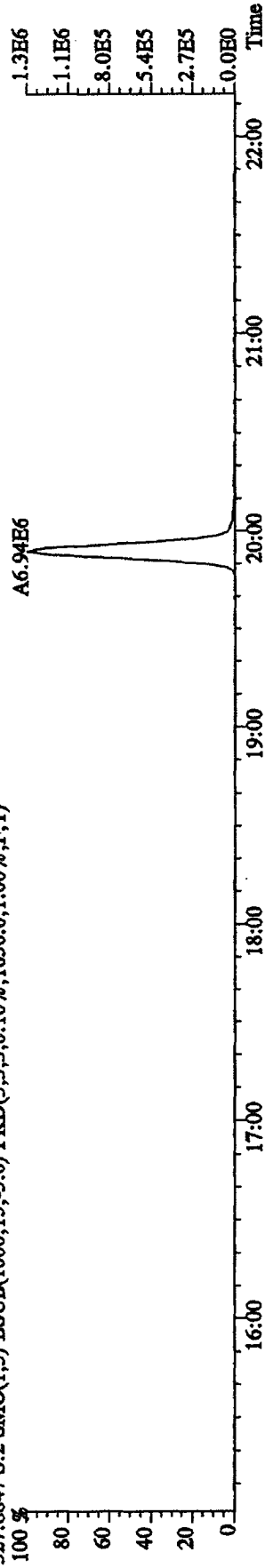
333.9339 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3300.0,1.00%,F,T)



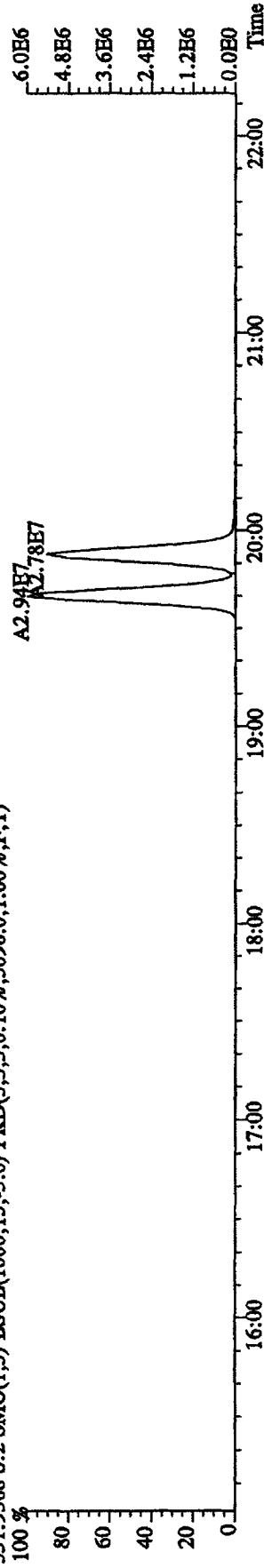
File:12AP104D5 #1-435 Acq:12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 Text:ST0412 :CS-3 10DXN111 Exp:DIOXINRES8290A  
 327.8847 S:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1636.0,1.00%,F,T)



327.8847 S:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1636.0,1.00%,F,T)



331.9368 S:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5096.0,1.00%,F,T)



333.9339 S:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3300.0,1.00%,F,T)

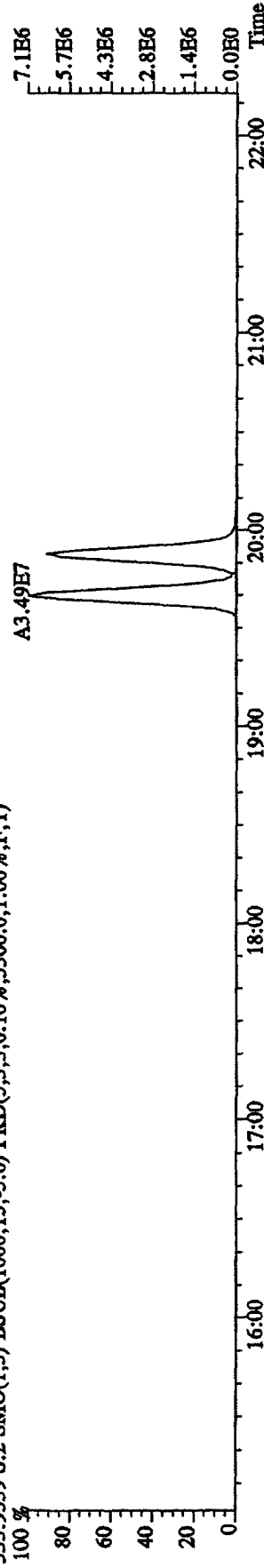
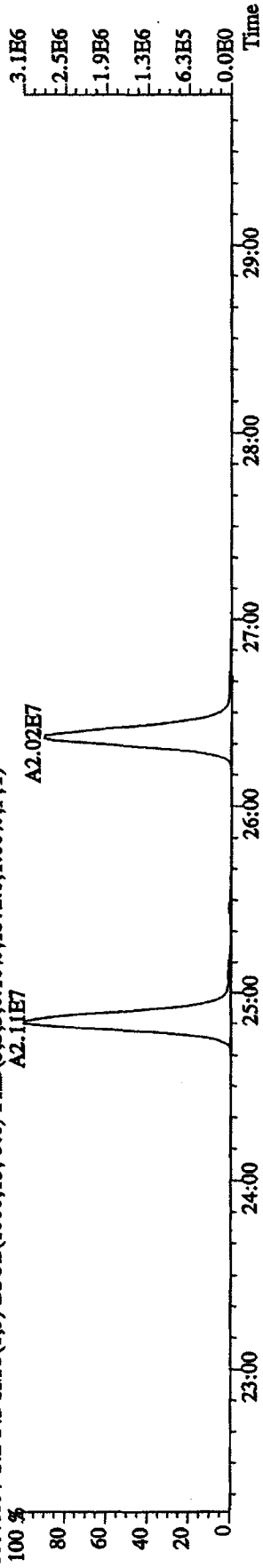
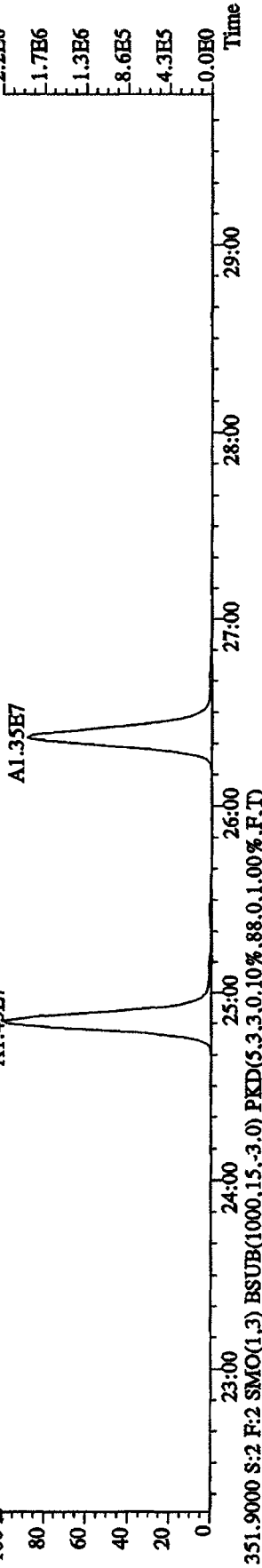


Fig:12API04D5 #1-604 Acq:12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaB

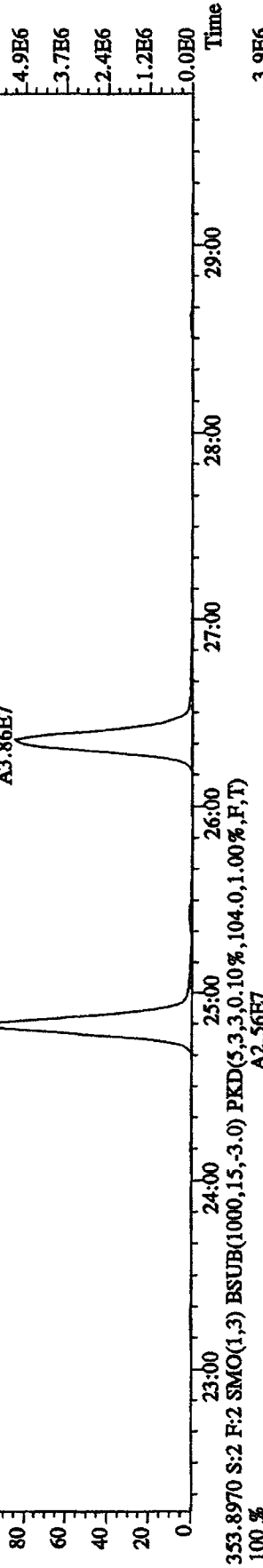
Sample#2 Text:ST0412 :CS-3 10DXN111 Exp:DJOXNRES8290A  
339.8597 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1572.0,1.00%,F,T)



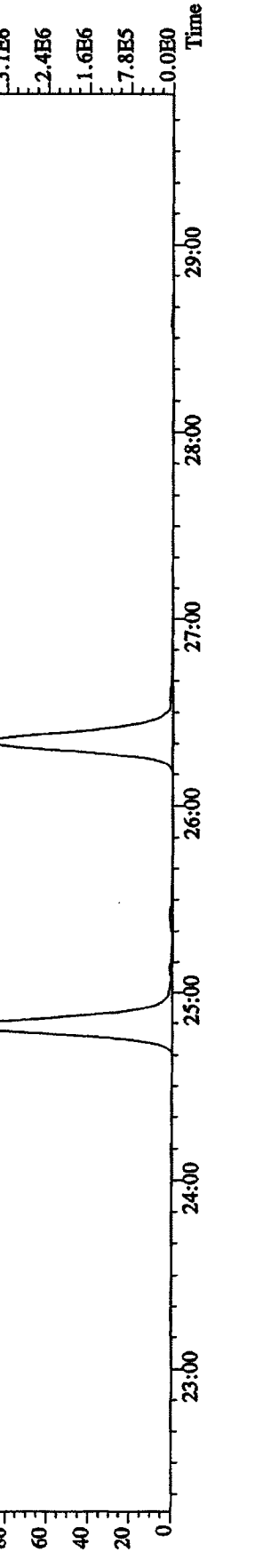
351.9000 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,88.0,1.00%,F,T)



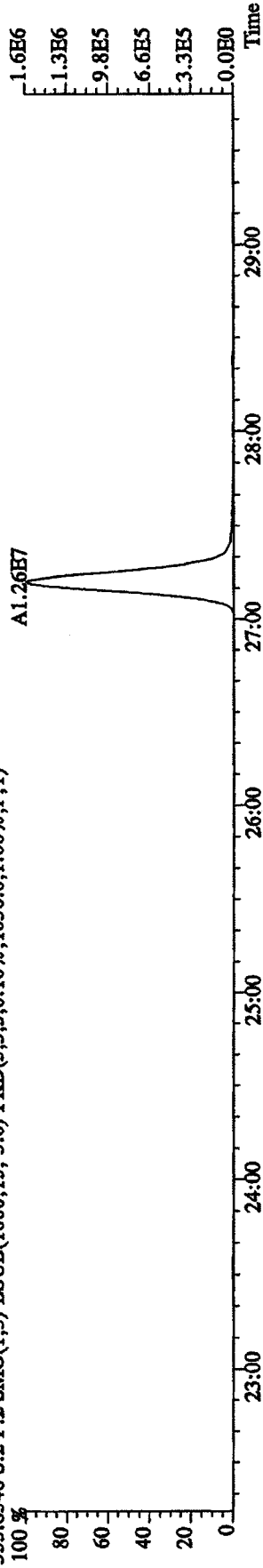
353.8970 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,104.0,1.00%,F,T)



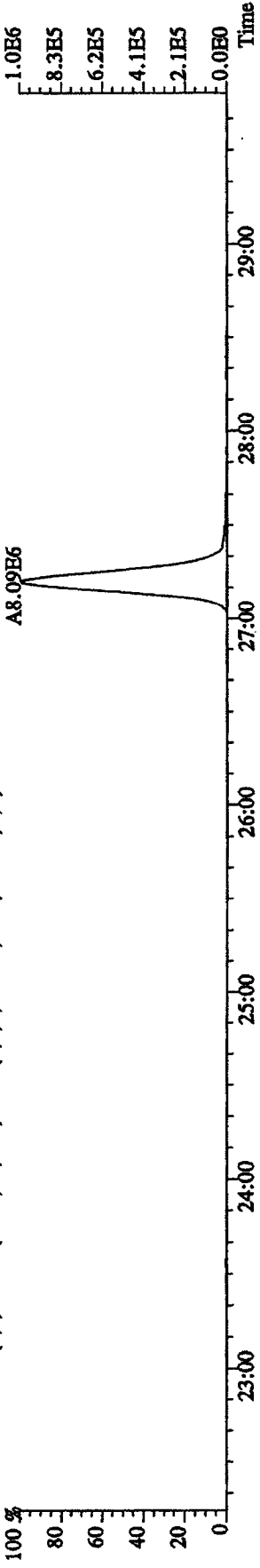
353.8970 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,104.0,1.00%,F,T)



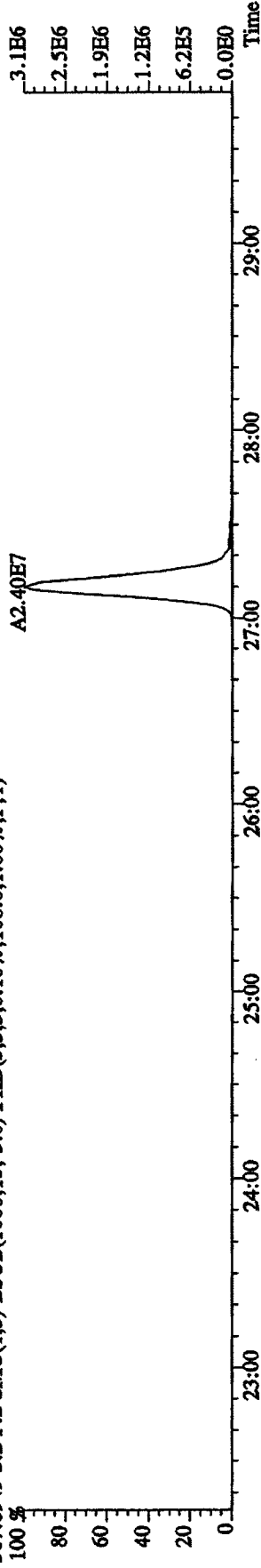
File: 12AP104D5 #1-604 Acq: 12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#2 Text: ST0412 :CS-3 10DXN111 Exp: DIOXINRES8290A  
 355.8546 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1036.0,1.00%,F,T)



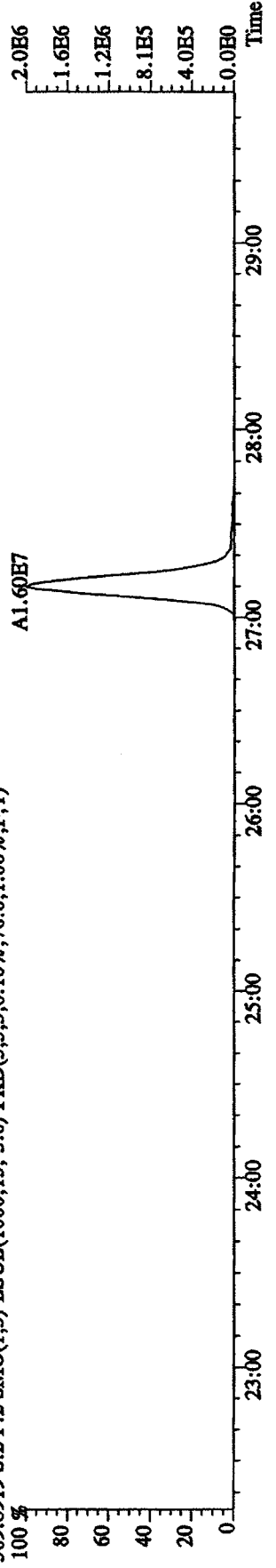
357.8516 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,84.0,1.00%,F,T)



367.8949 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,108.0,1.00%,F,T)

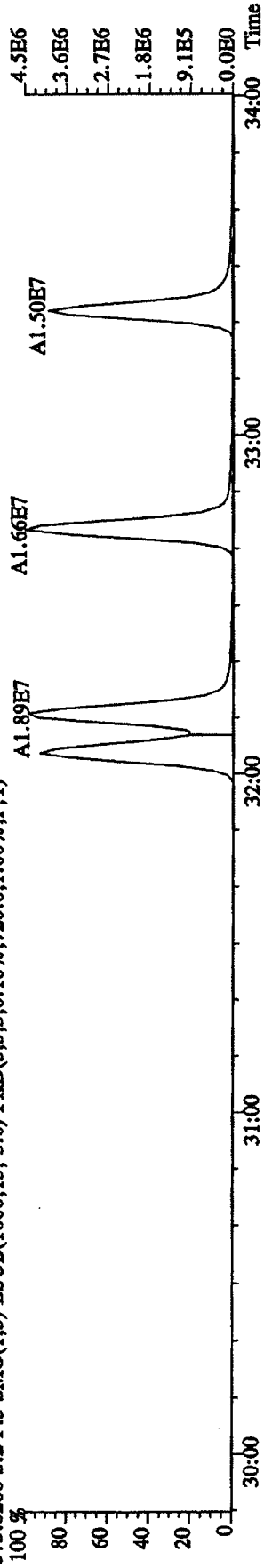


369.8919 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,76.0,1.00%,F,T)

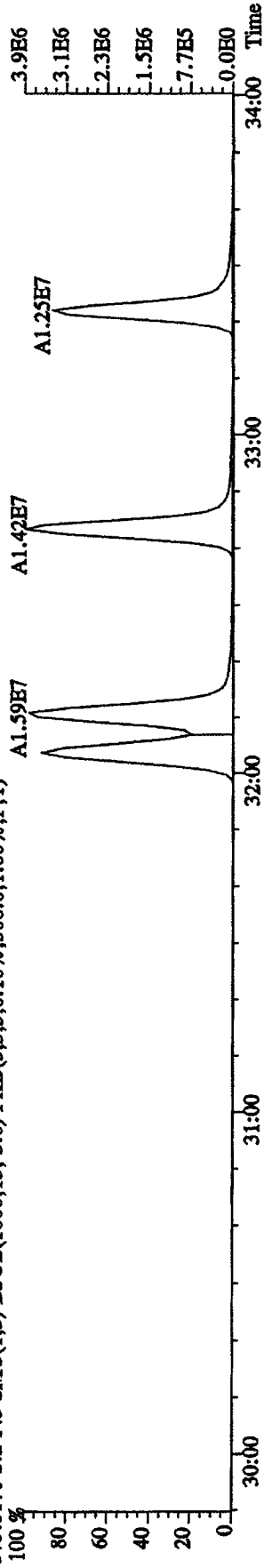




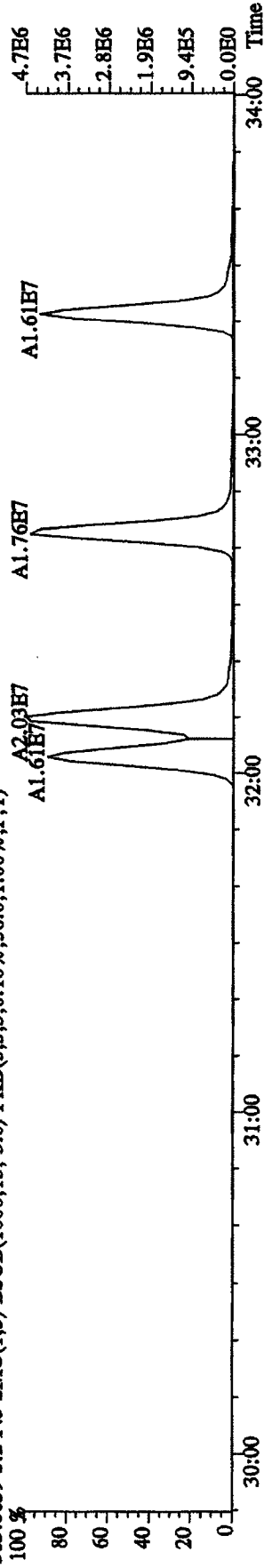
File: 12AP104D5 #1-317 Acq: 12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 Text: ST0412 : CS-3 10DXN111 Exp: DIOXINRES8290A  
 373.8208 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,720.0,1.00%,F,T)



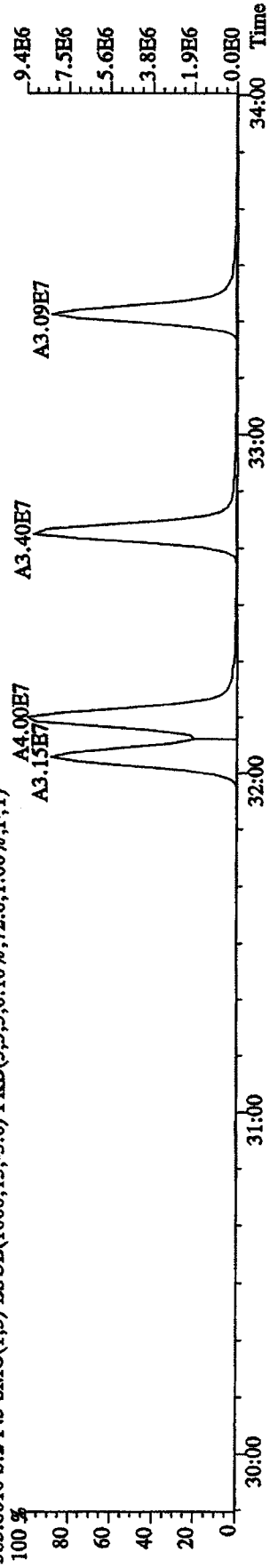
375.8178 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,508.0,1.00%,F,T)



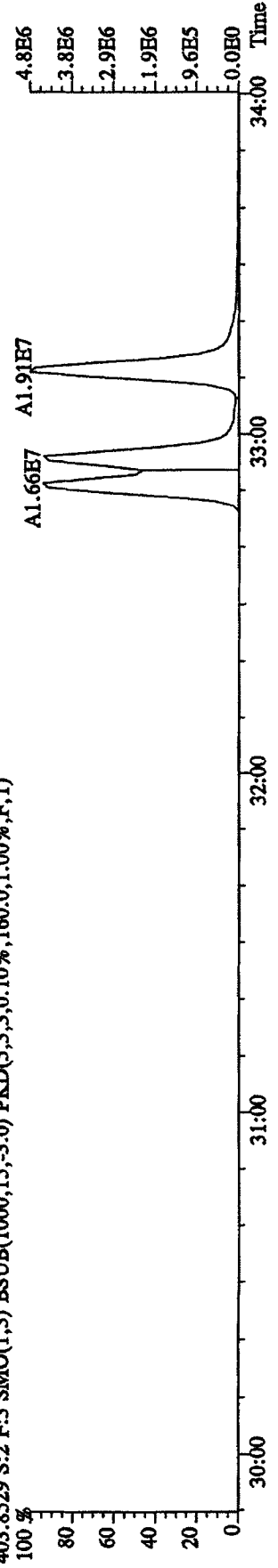
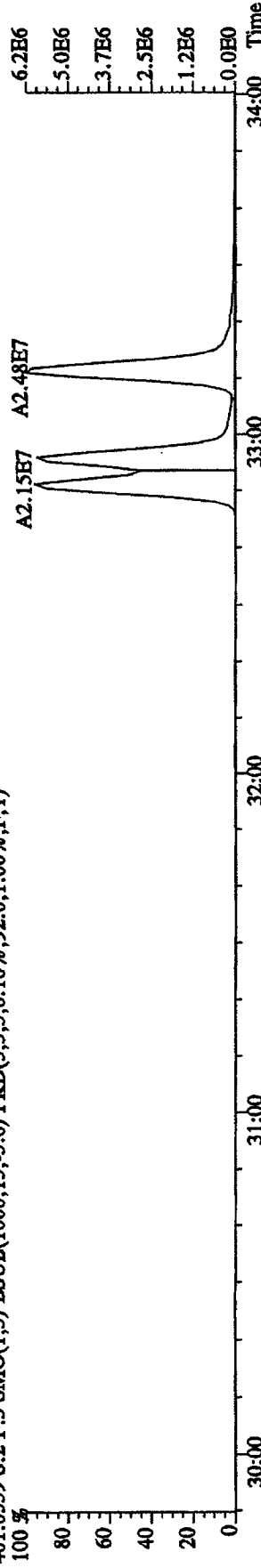
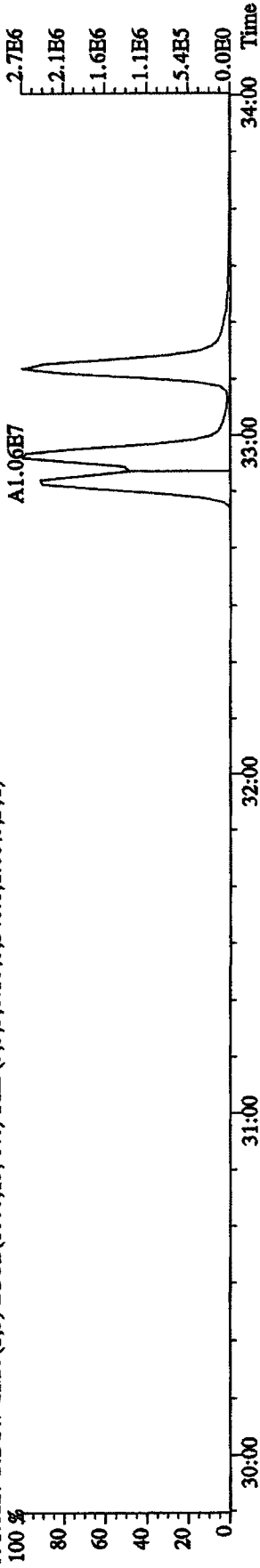
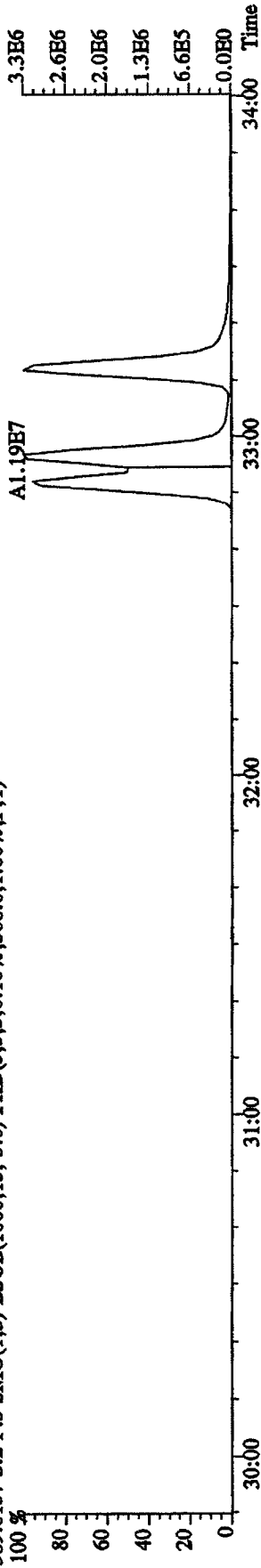
383.8639 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,56.0,1.00%,F,T)



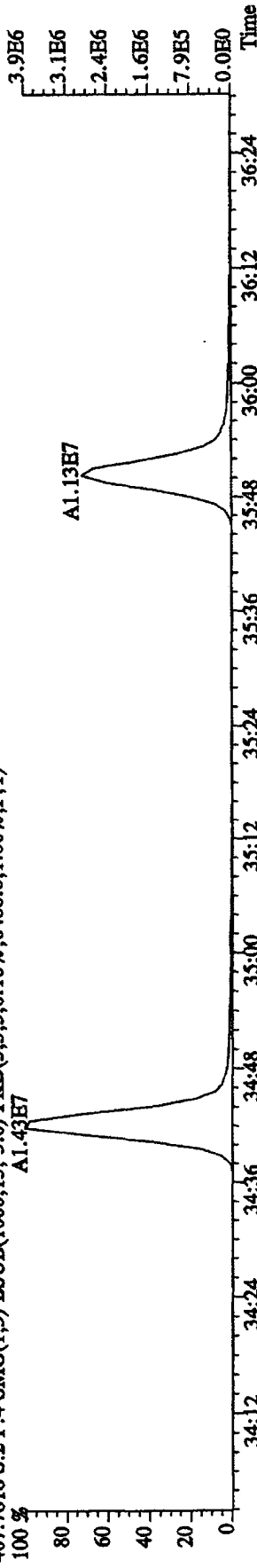
385.8610 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,72.0,1.00%,F,T)



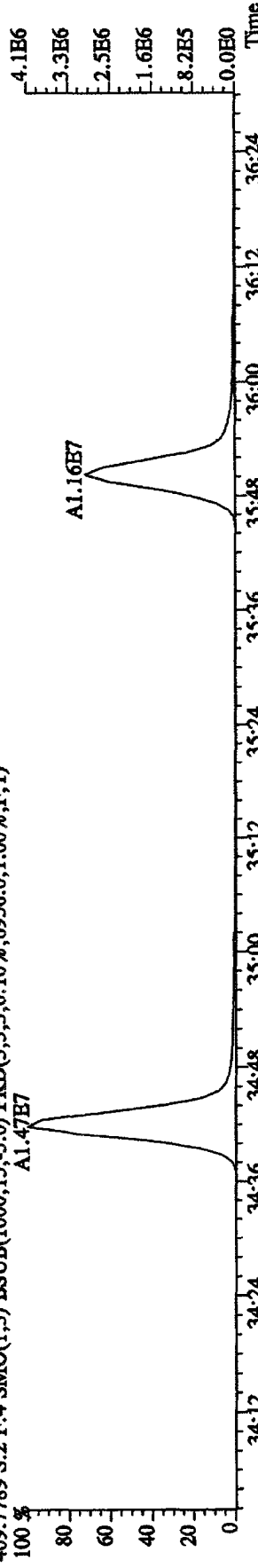
File:12AP104D5 #1-317 Acq:12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 Text:ST0412 :CS-3 10DXN111 Exp:DIOXINRES8290A  
 389.8157 S:2 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10% ,588.0,1.00% ,F,T)



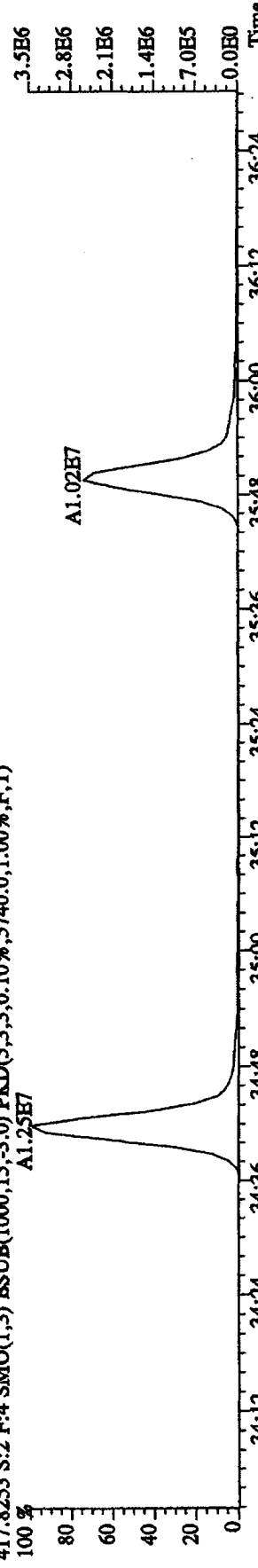
File:12AP104D5 #1-198 Acq:12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 Text:ST0412 :CS-3 10DDXN11 Exp:DIOXINRES290A  
 407.7818 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6488.0,1.00%,F,T)



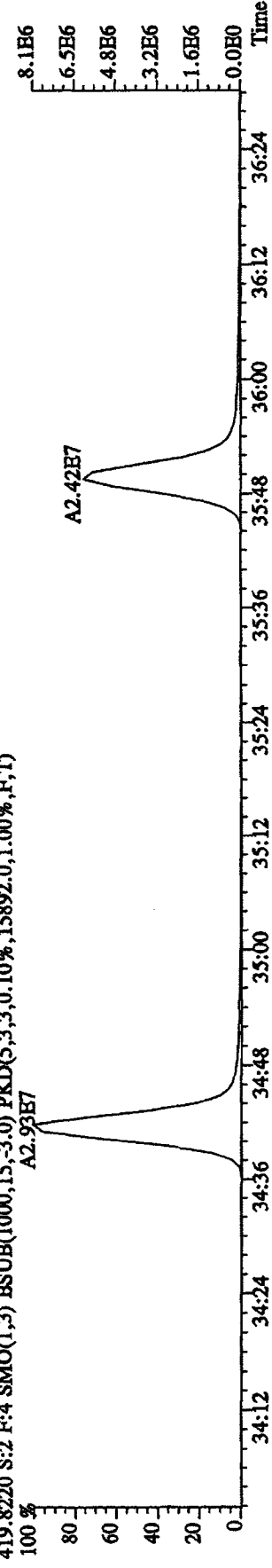
409.7789 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6956.0,1.00%,F,T)



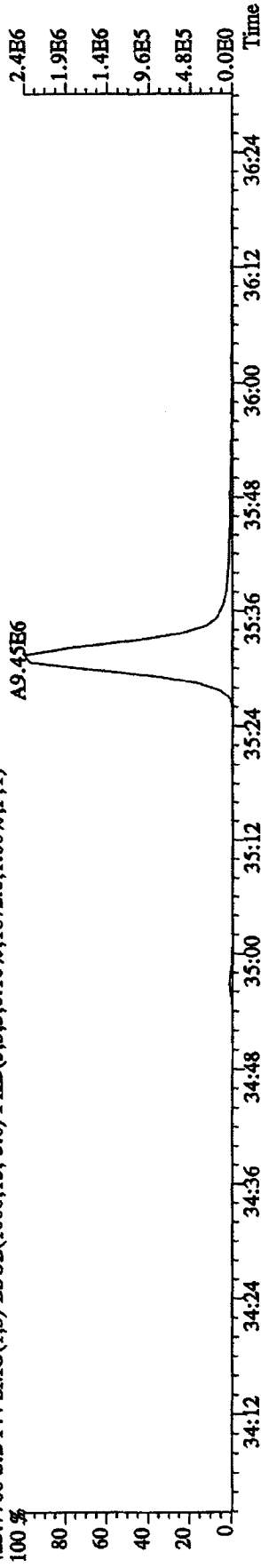
417.8253 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5740.0,1.00%,F,T)



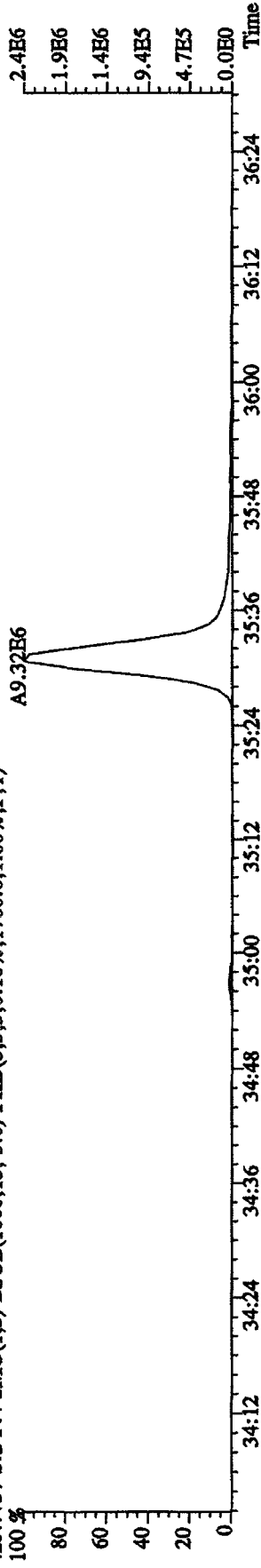
419.8220 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15892.0,1.00%,F,T)



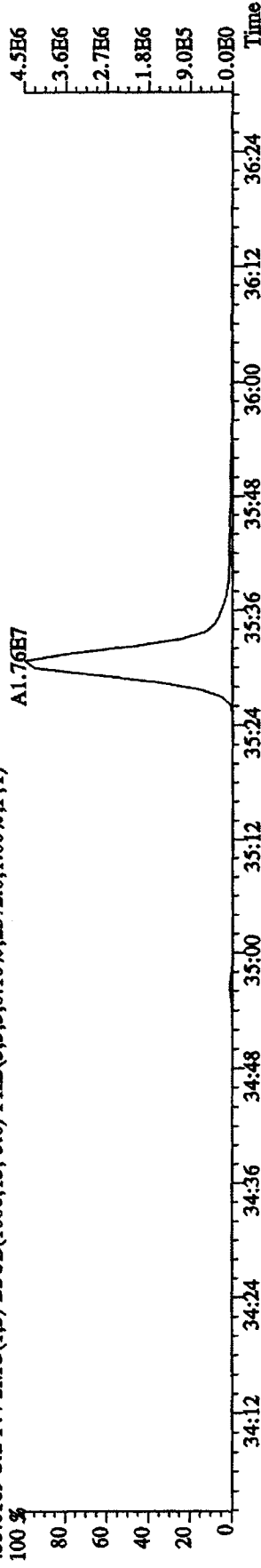
File:12API04D5 #1-198 Acq:12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 Text:ST0412 :CS-3 10DXN111 Exp:DIOXINRES8290A  
 423.7766 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1872.0,1.00%,F,T)



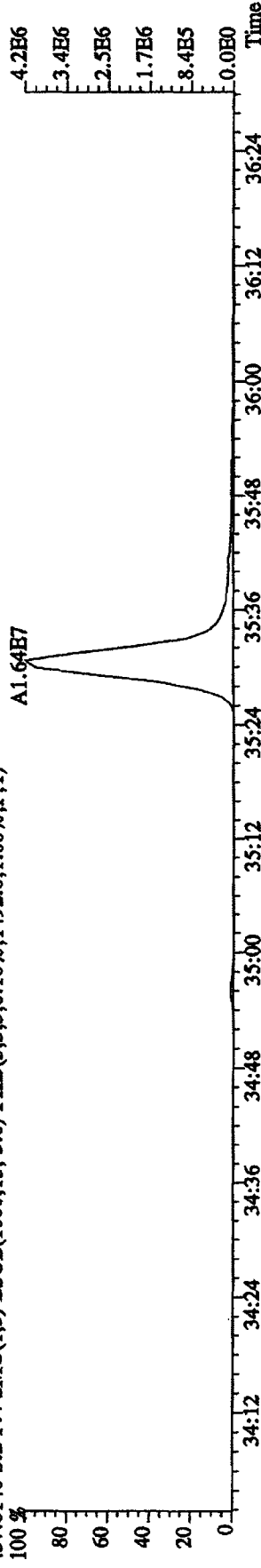
425.7737 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1780.0,1.00%,F,T)



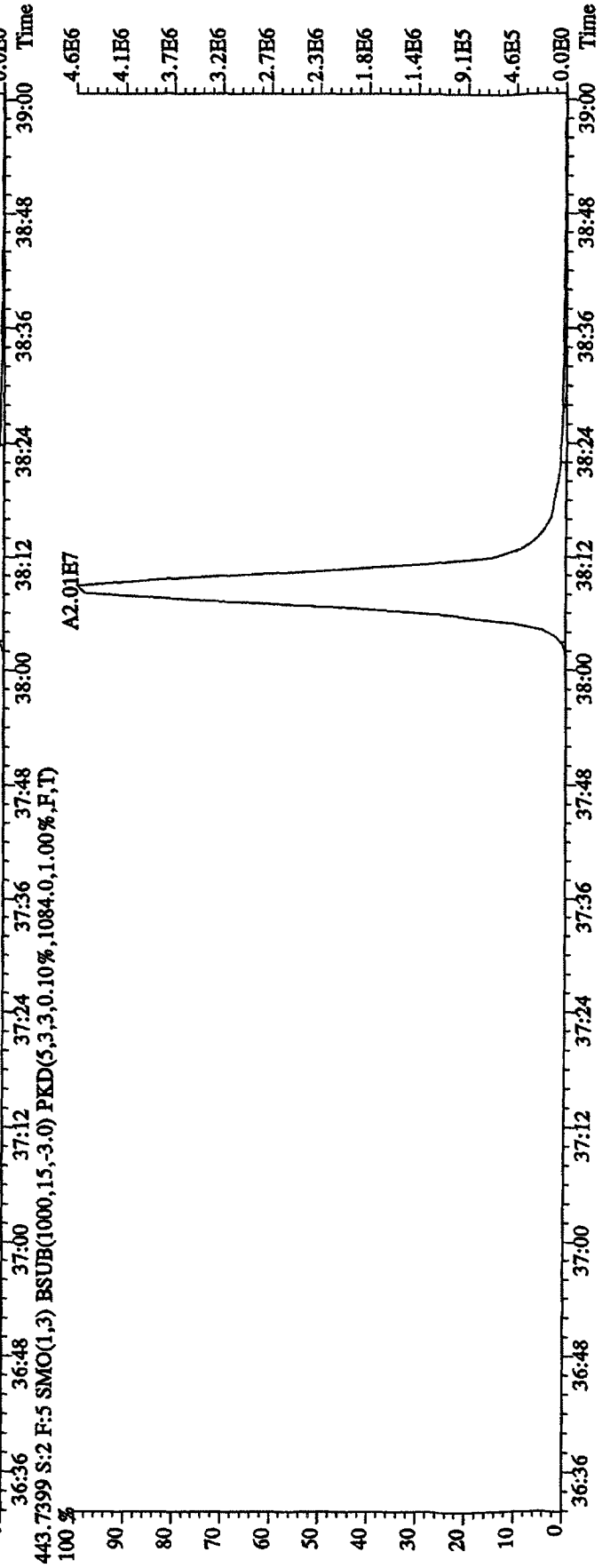
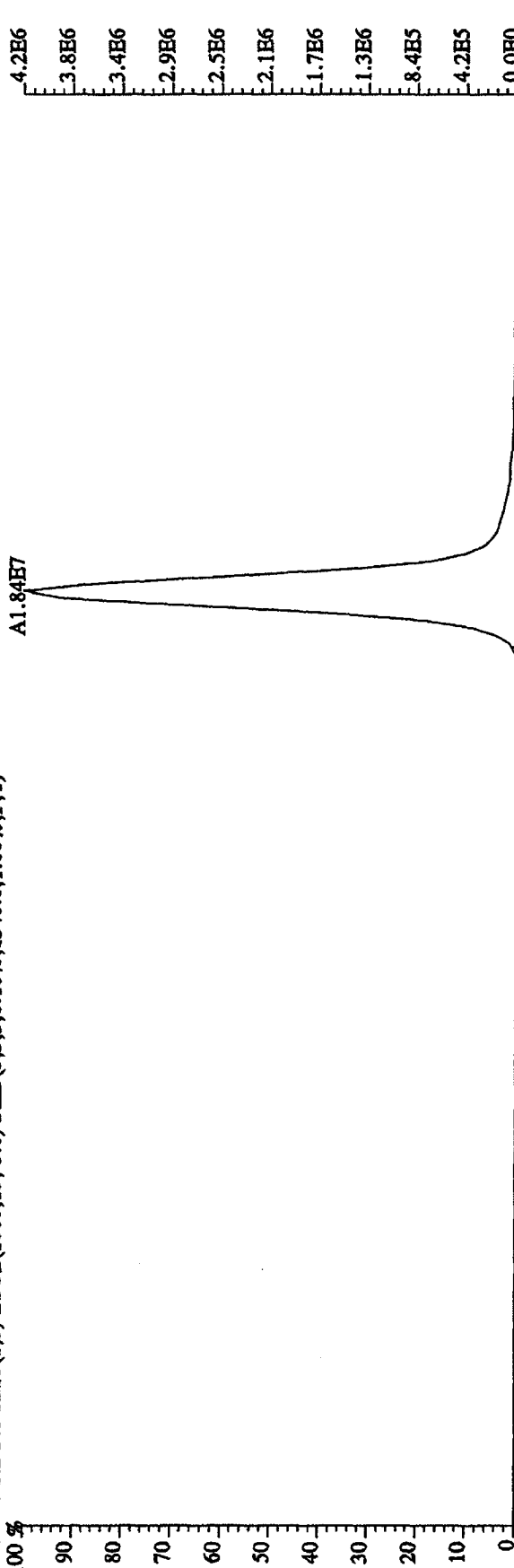
435.8169 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2572.0,1.00%,F,T)



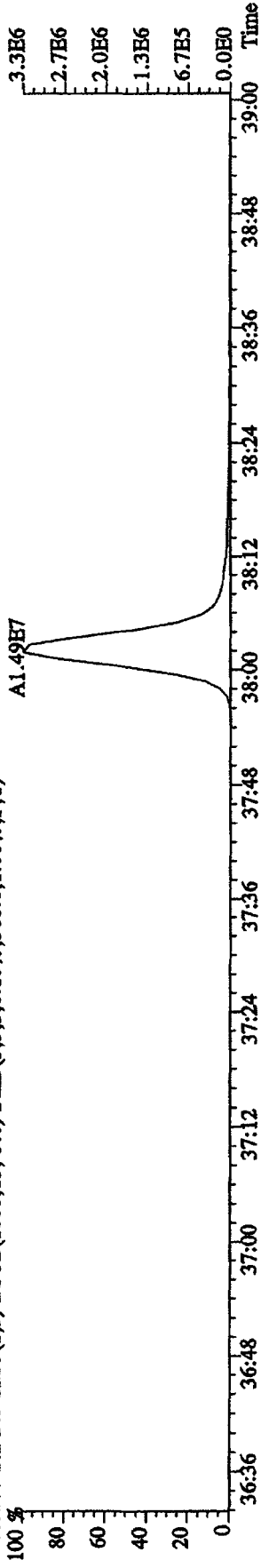
437.8140 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1492.0,1.00%,F,T)



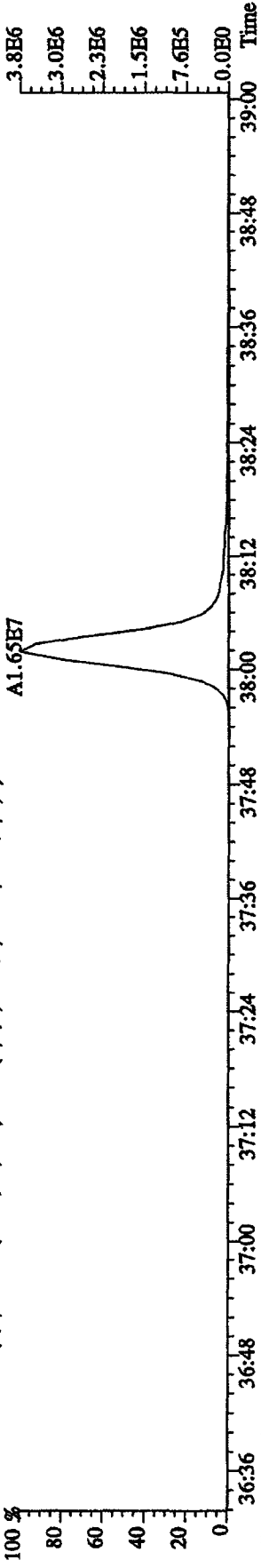
File:12AP104D5 #1-191 Acq:12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 Text:ST0412 :CS-3 10DXN111 Exp:DIOXINRES8290A  
 441.7428 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1340.0,1.00%,F,T)



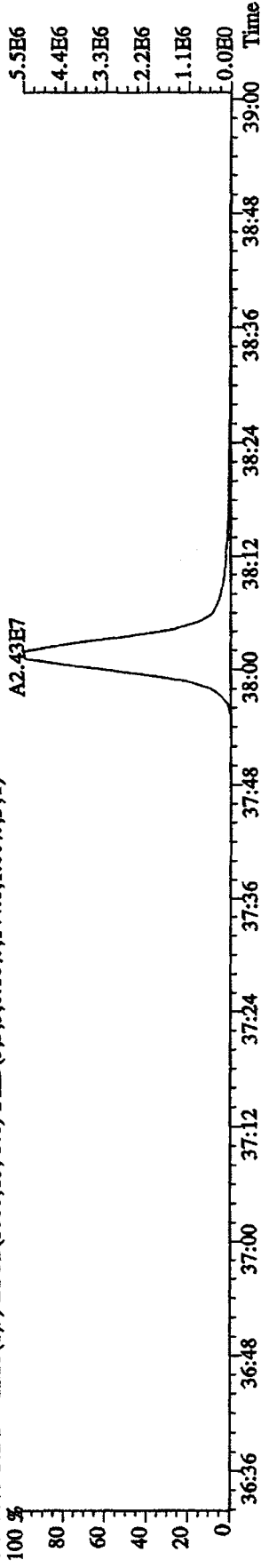
File:12API04D5 #1-191 Acq:12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 Text:ST0412 :CS-3 10DXN111 Exp:DIOXINRES8290A  
 457.7377 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3.0,10%,568.0,1.00%,F,T)



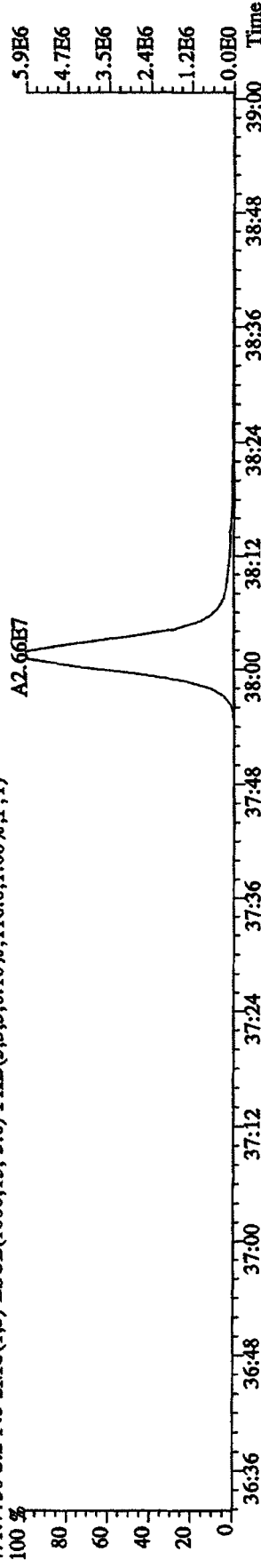
459.7348 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3.0,10%,740.0,1.00%,F,T)



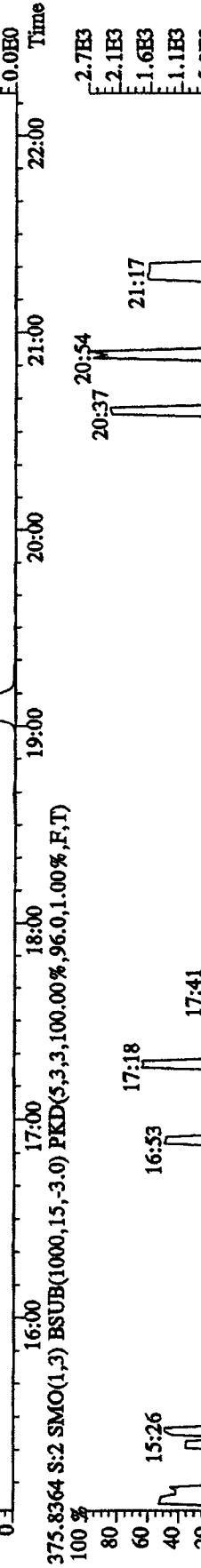
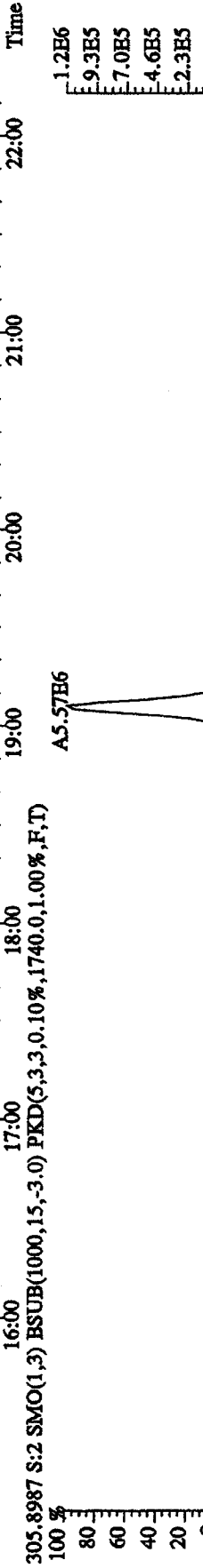
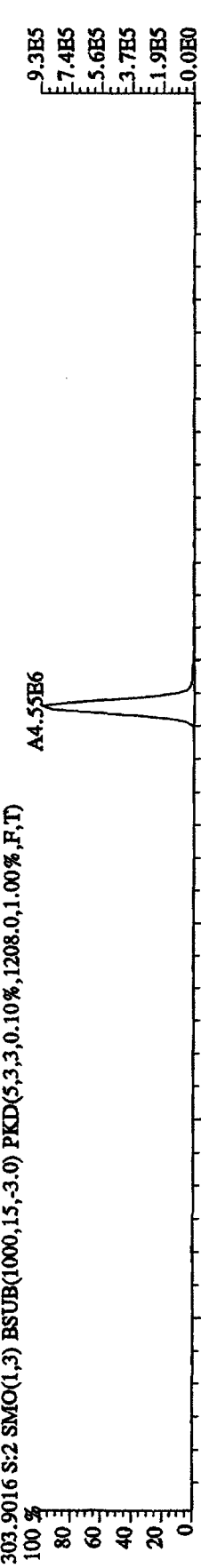
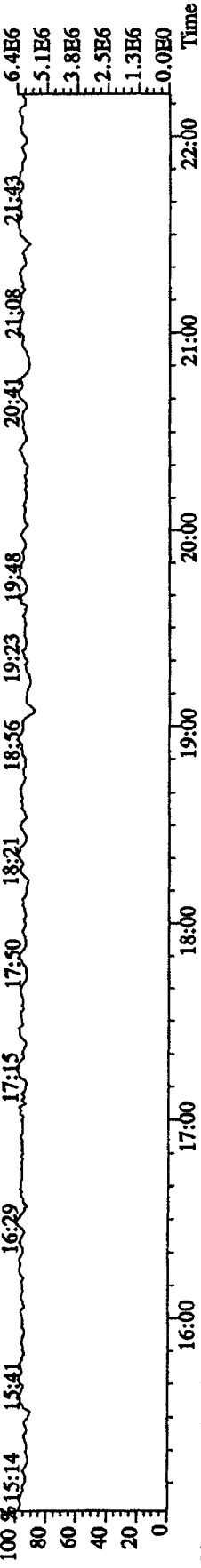
469.7779 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3.0,10%,144.0,1.00%,F,T)



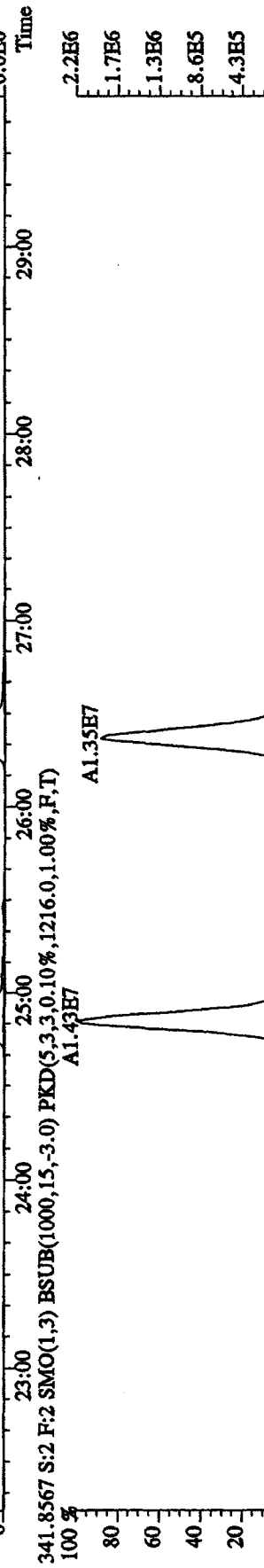
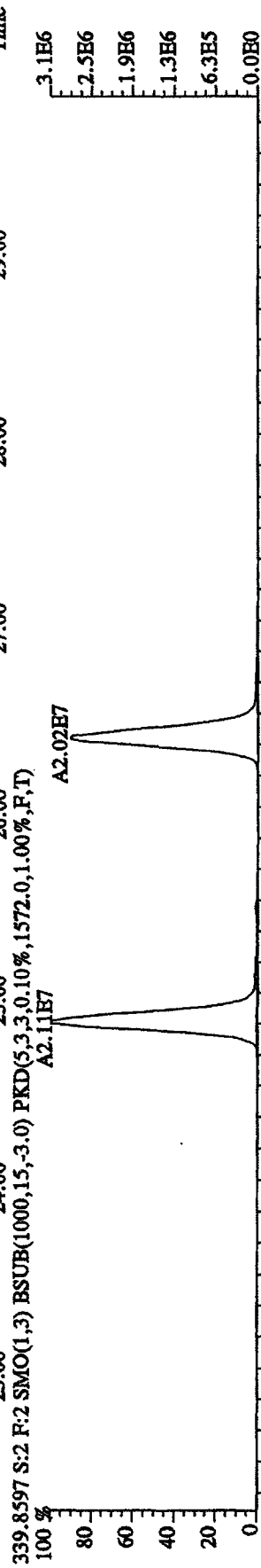
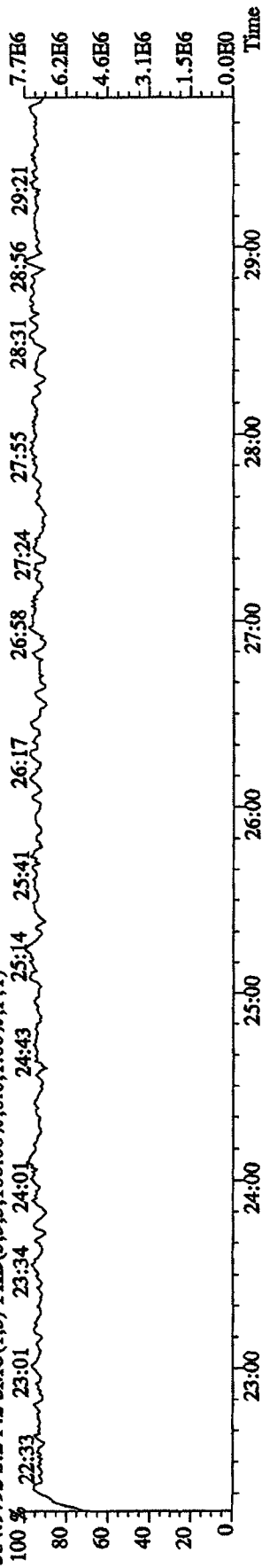
471.7750 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3.0,10%,116.0,1.00%,F,T)



File:12AP104D5 #1-435 Acq:12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 Text:ST0412 :CS-3 10DXN111 Exp:DIOXINRES8290A  
 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:12API04D5 #1-604 Acq:12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#2 Text:ST0412 :CS-3 10DXN111 Exp:DIOXINRES8290A  
 354.9792 S:2 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100 % 22:33 23:01 23:34 24:01 24:43 25:14 25:41 26:17 26:58 27:24 27:55 28:31 28:56 29:21



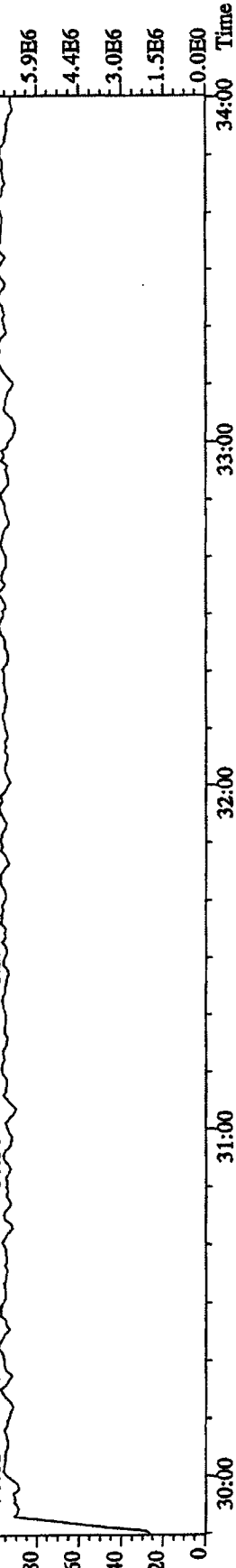


File:12API04D5 #1-317 Acq:12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaE

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

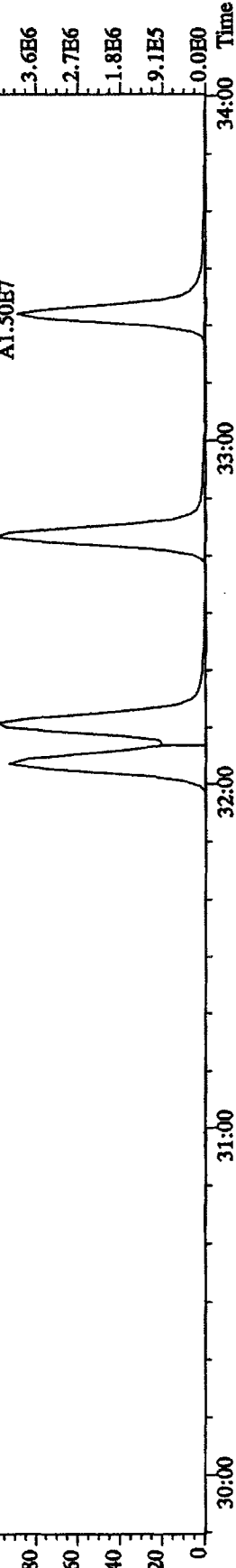
430.9728 S:2 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 % 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 7.4E6



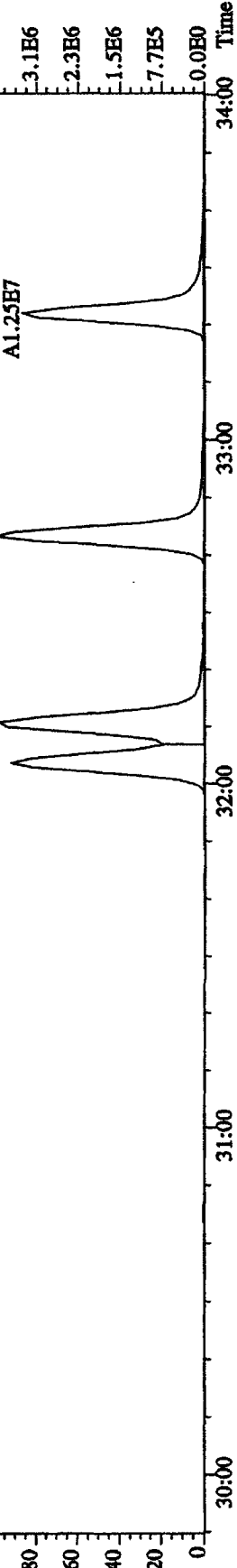
373.8208 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,720.0,1.00%,F,T)

100 % 30:00 31:00 32:00 33:00 34:00 Time



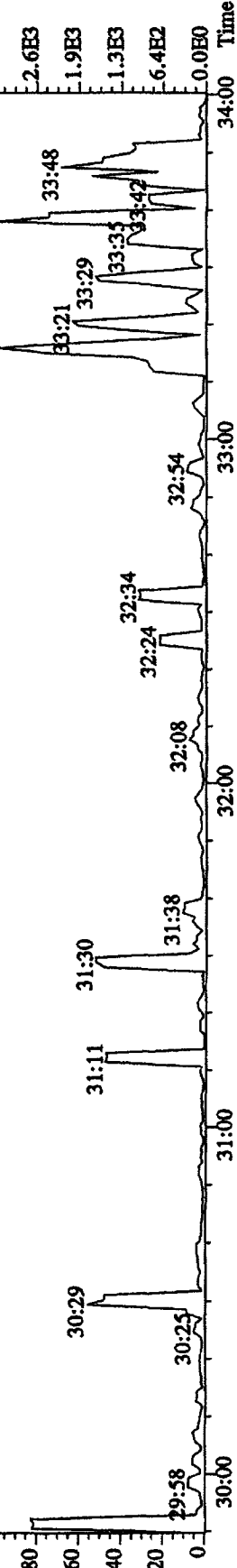
375.8178 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,508.0,1.00%,F,T)

100 % 30:00 31:00 32:00 33:00 34:00 Time



445.7555 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,76.0,1.00%,F,T)

100 % 30:00 31:00 32:00 33:00 34:00 Time

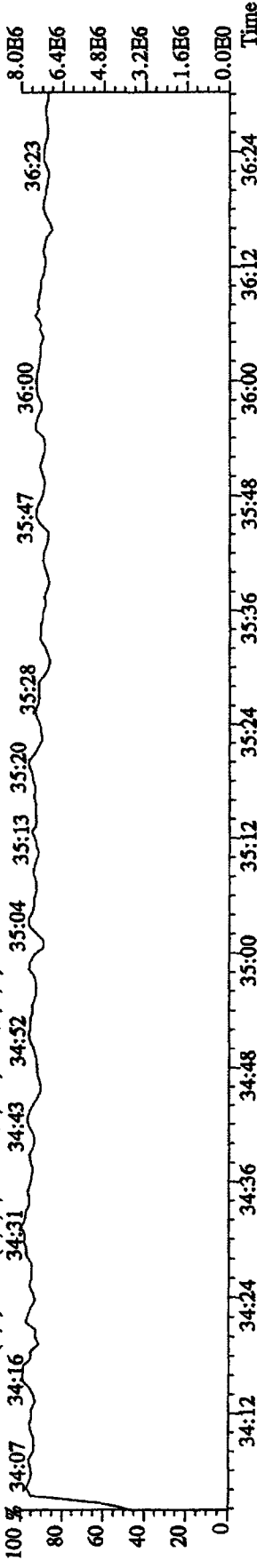


File: 12API04D5 #1-198 Acq: 12-APR-2010 09:14:17 GC HI+ Voltage SIR Autospec-UltimaE

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

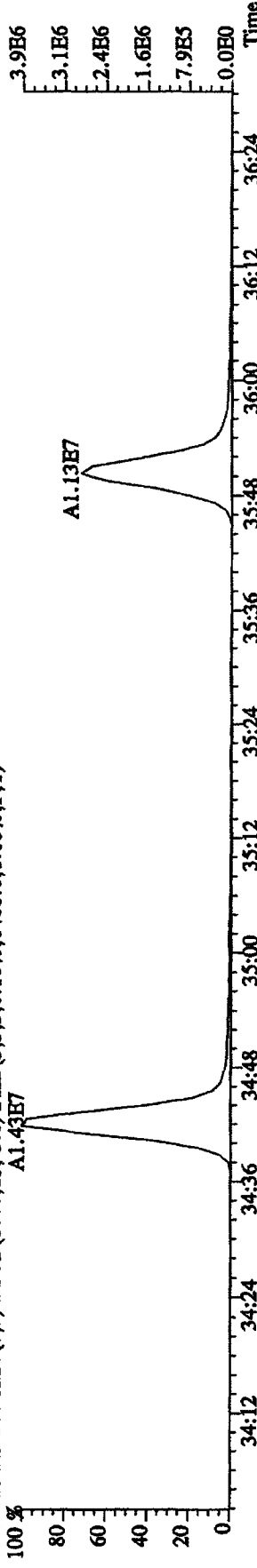
430.9728 S:2 F:4 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)

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



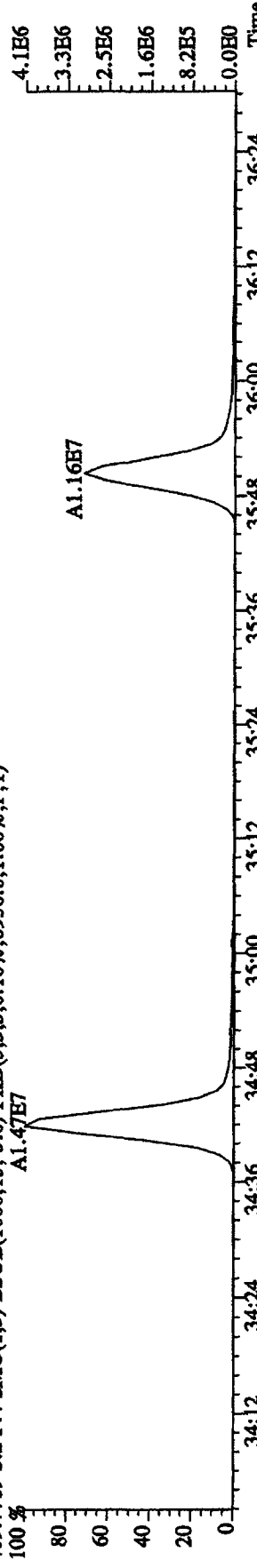
407.7818 S:2 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6488.0,1.00%,F,T)

100 % 34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:24



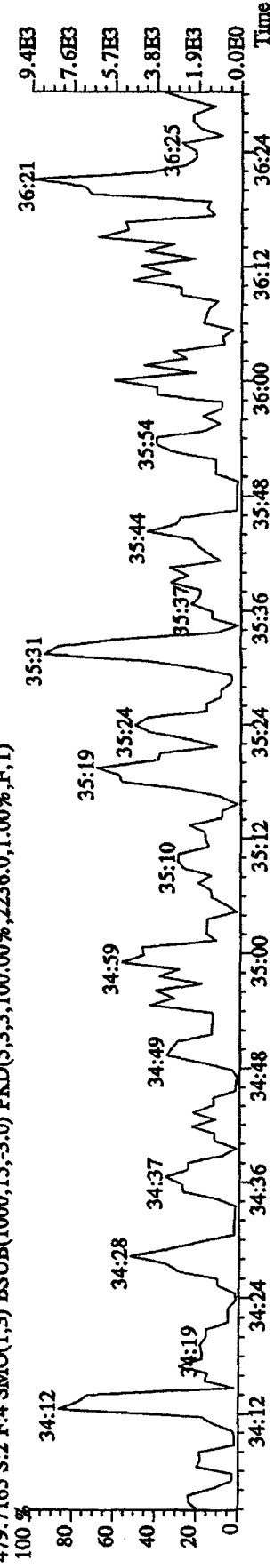
409.7789 S:2 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6956.0,1.00%,F,T)

100 % 34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:24



479.7165 S:2 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,2236.0,1.00%,F,T)

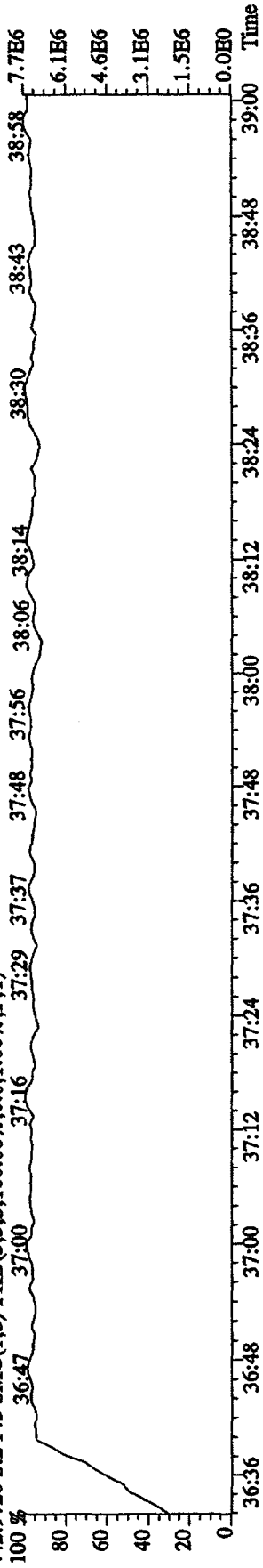
100 % 34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:24



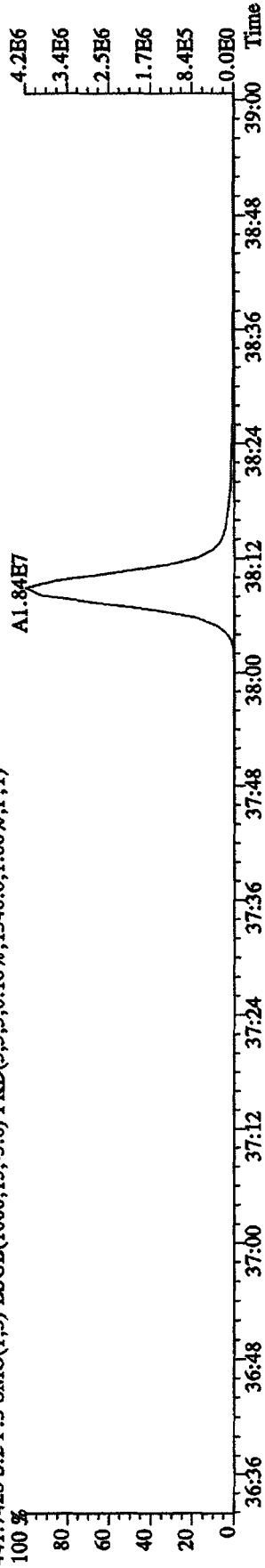
File:12AP104D5 #1-191 Acq:12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaB

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

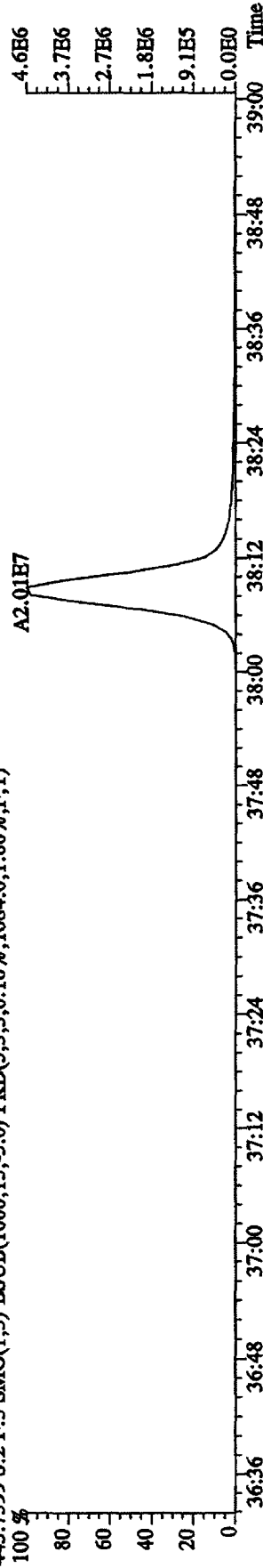
442.9728 S:2 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



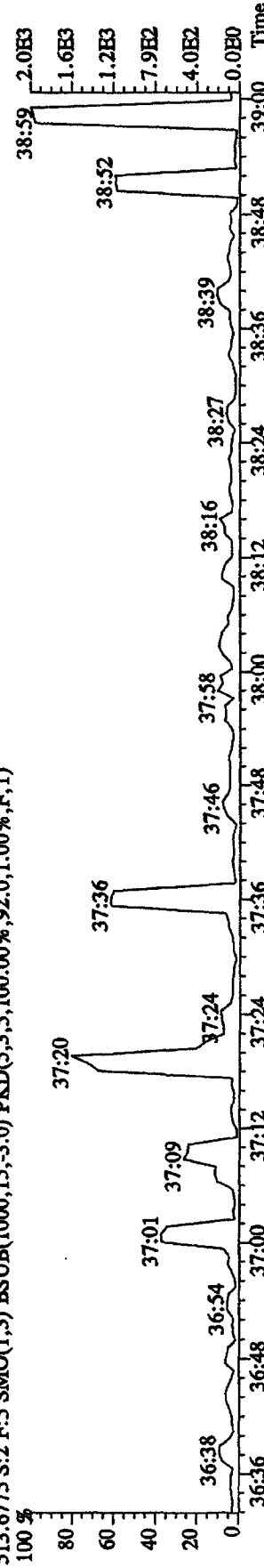
441.7428 S:2 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1340.0,1.00%,F,T)



443.7399 S:2 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1084.0,1.00%,F,T)



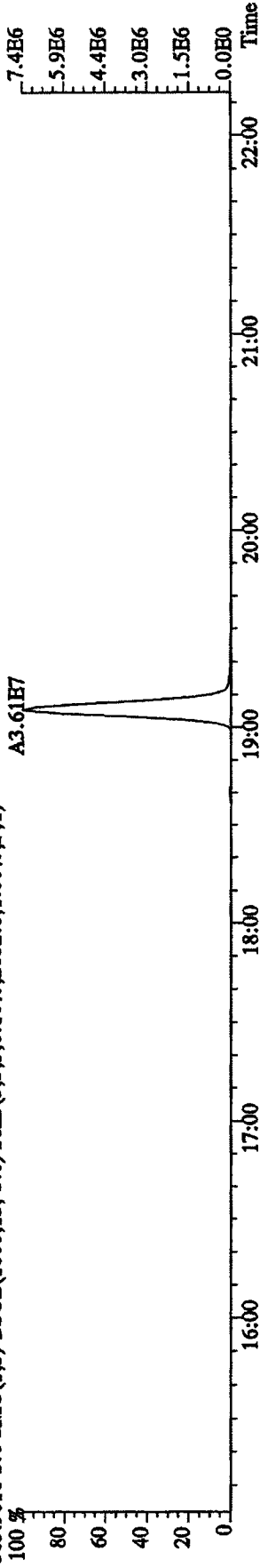
513.6775 S:2 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,5,100.00%,92.0,1.00%,F,T)



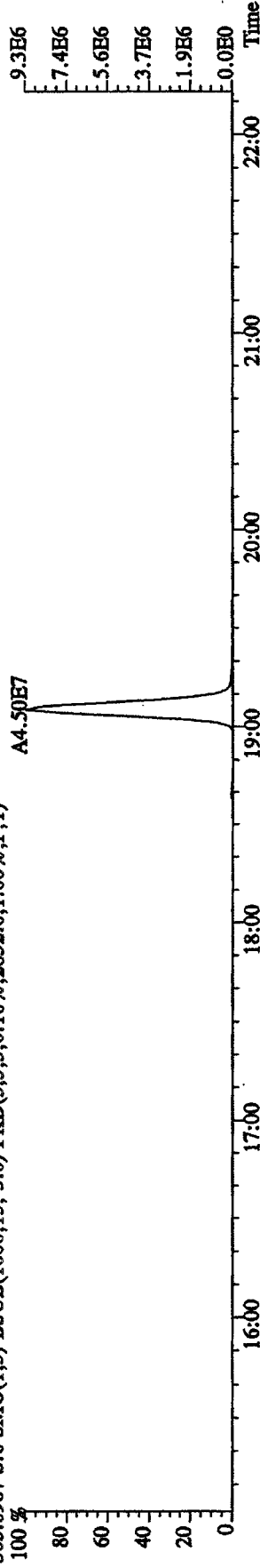
File:12AP104D5 #1-435 Acq:12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-UltimaE

Sample#6 Text:ST0412D :CS-4 09DXN426 Exp:DIOXINRES8290A

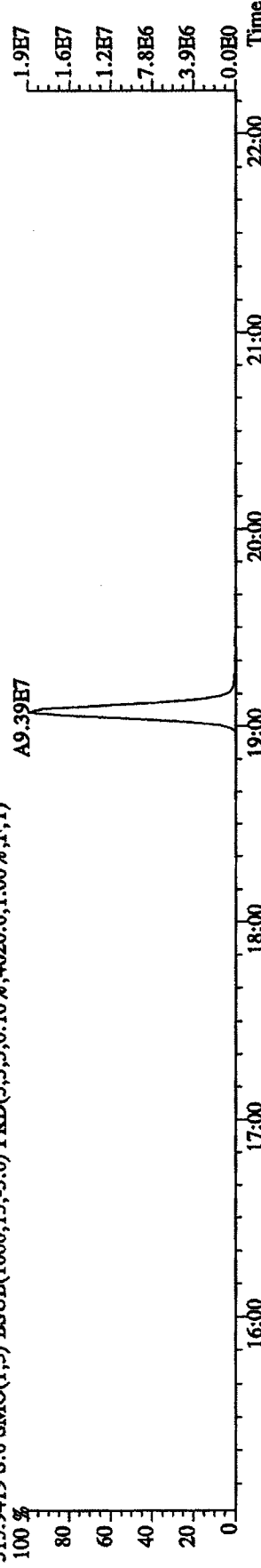
303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2032.0,1.00%,F,T)



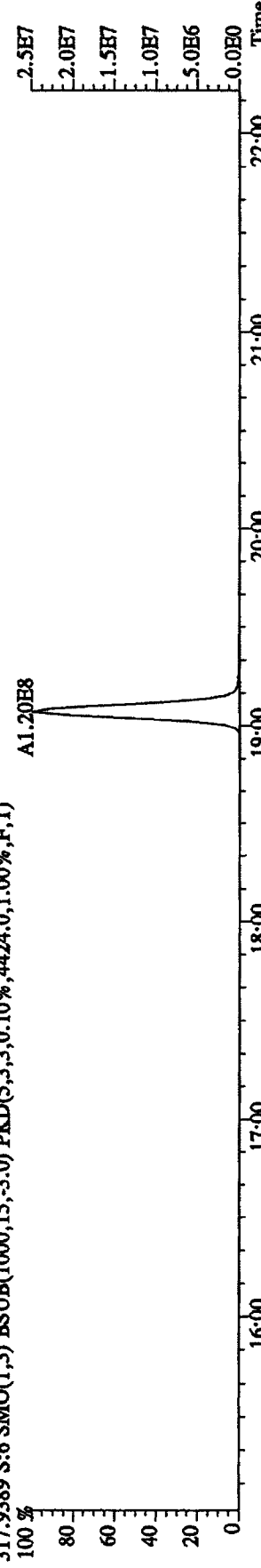
305.8987 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2832.0,1.00%,F,T)



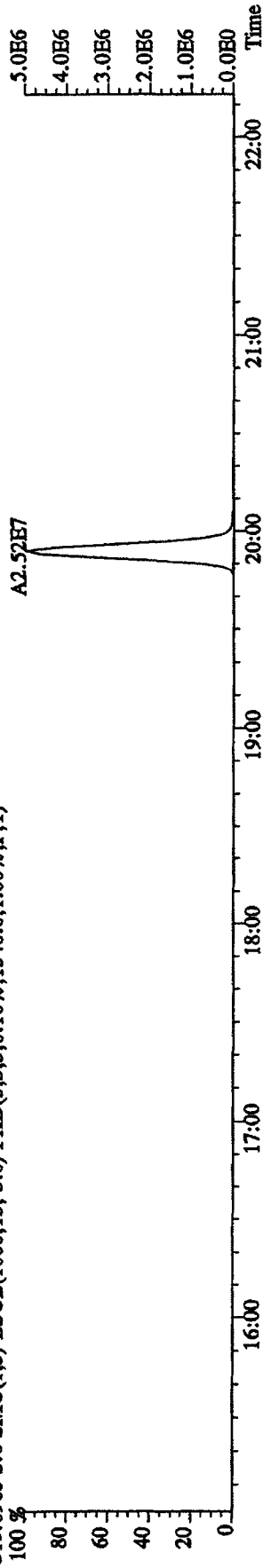
315.9419 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4620.0,1.00%,F,T)



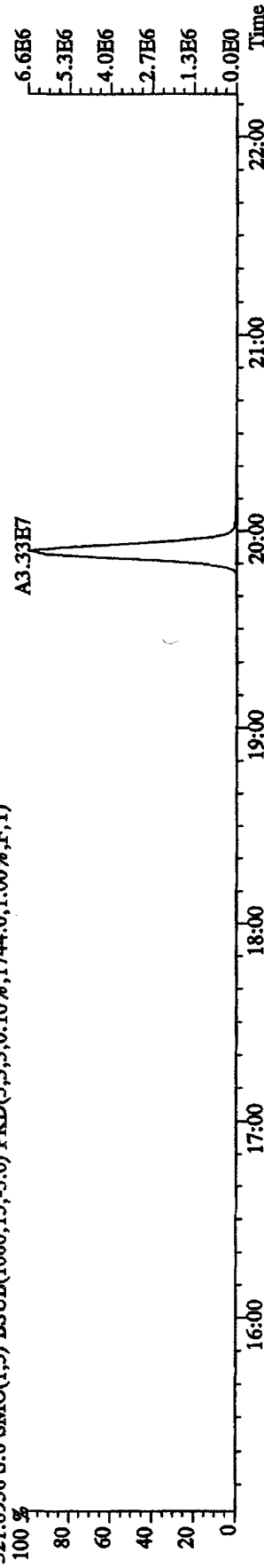
317.9289 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4424.0,1.00%,F,T)



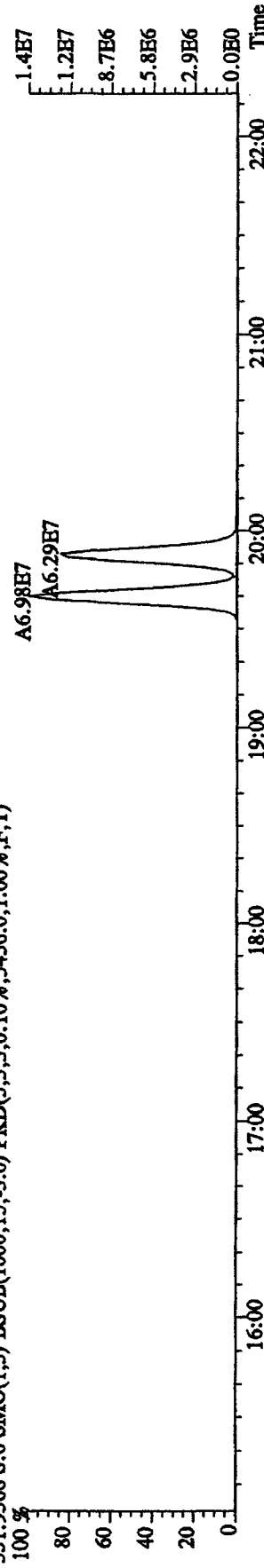
File:12AP104D5 #1-435 Acq:12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 Text:ST0412D :CS-4 09DXN426 Exp:DJOXNRES8290A  
 319.8965 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1540.0,1.00%,F,T)



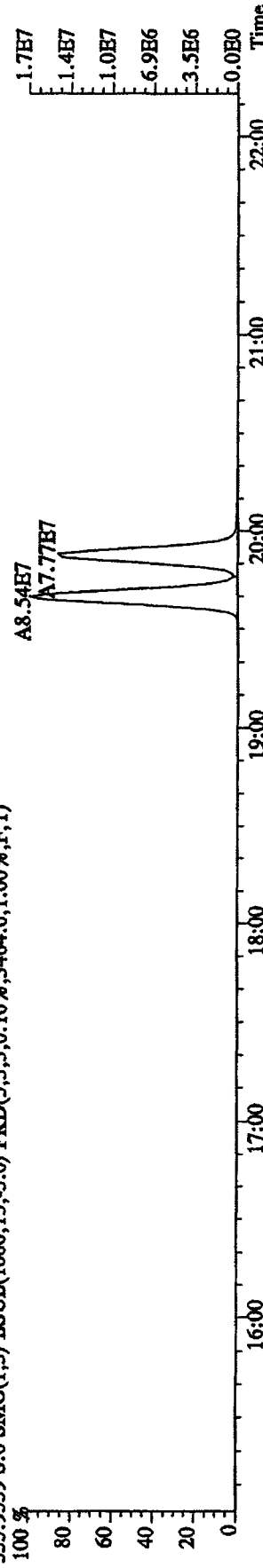
321.8936 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1744.0,1.00%,F,T)



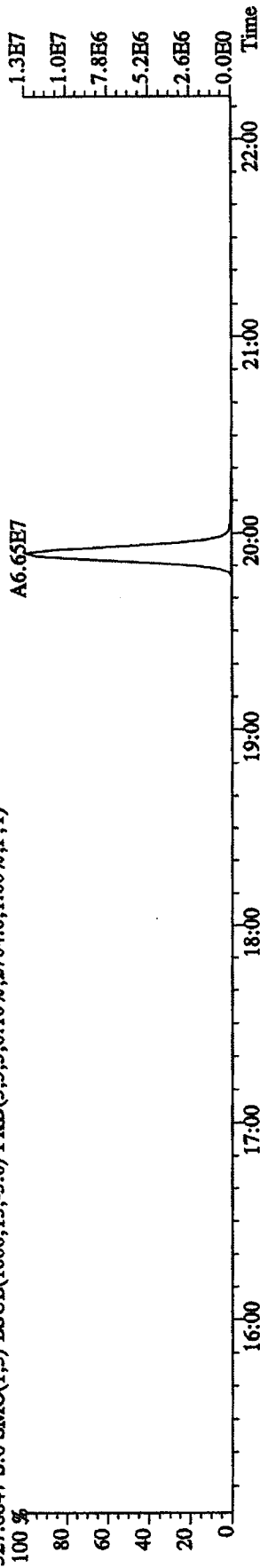
331.9368 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5456.0,1.00%,F,T)



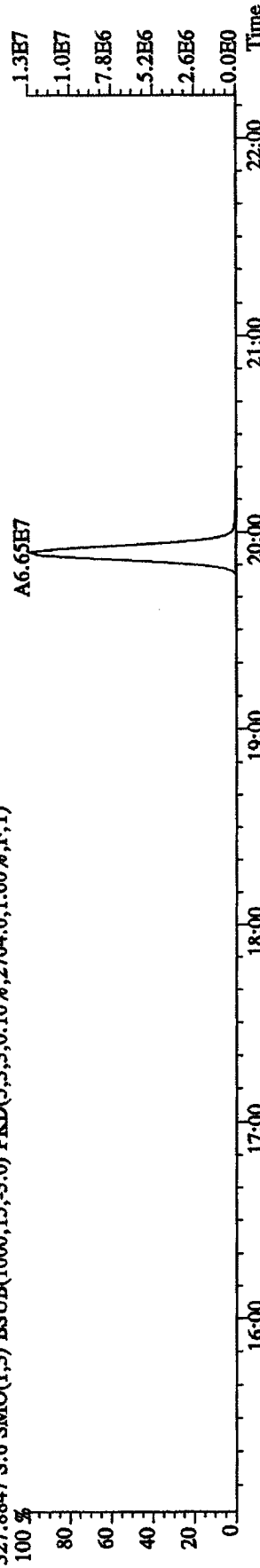
333.9339 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3464.0,1.00%,F,T)



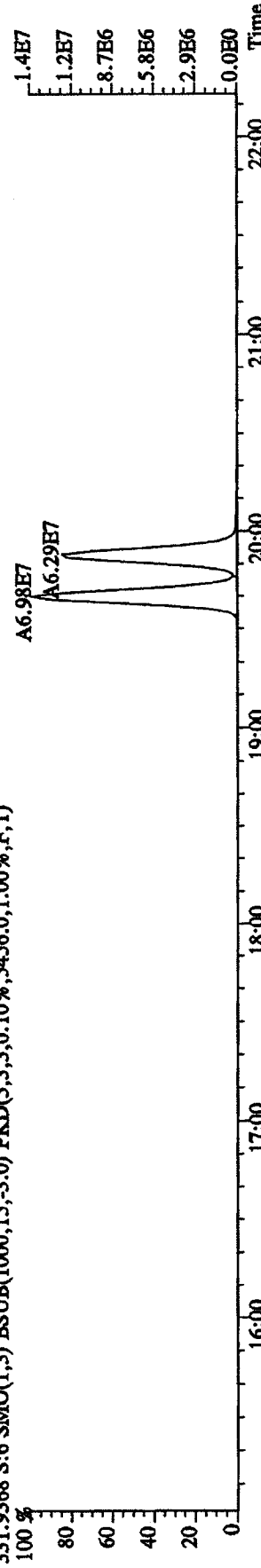
File: 12AP104D5 #1-435 Acq: 12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 Text: ST0412D : CS-4 09DXN426 Exp: DIOXINRES8290A  
 327.8847 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2704.0,1.00%,F,T)



327.8847 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2704.0,1.00%,F,T)

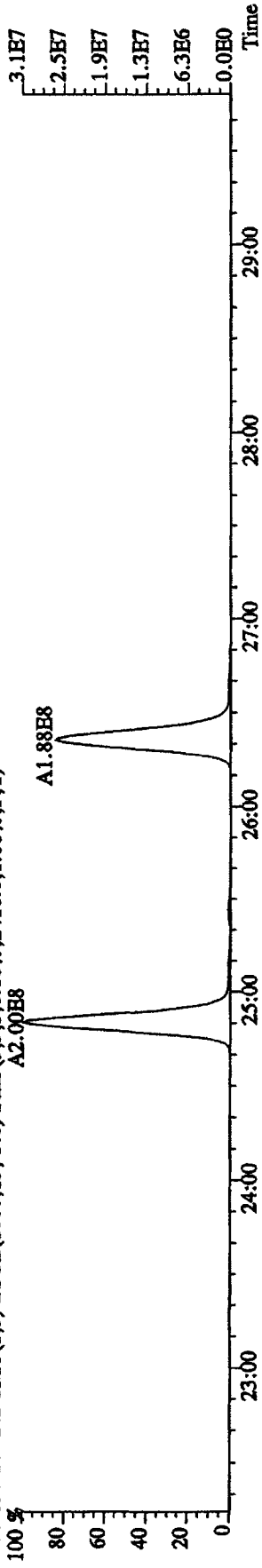


331.9368 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5456.0,1.00%,F,T)

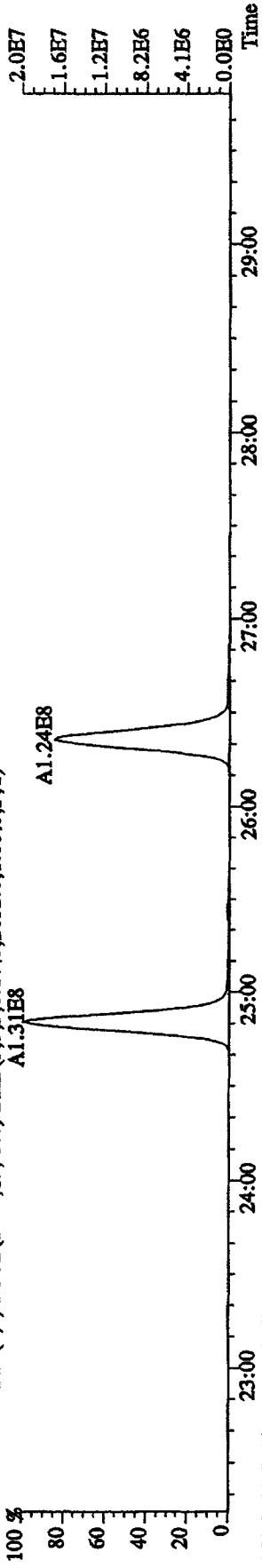


333.9339 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3464.0,1.00%,F,T)

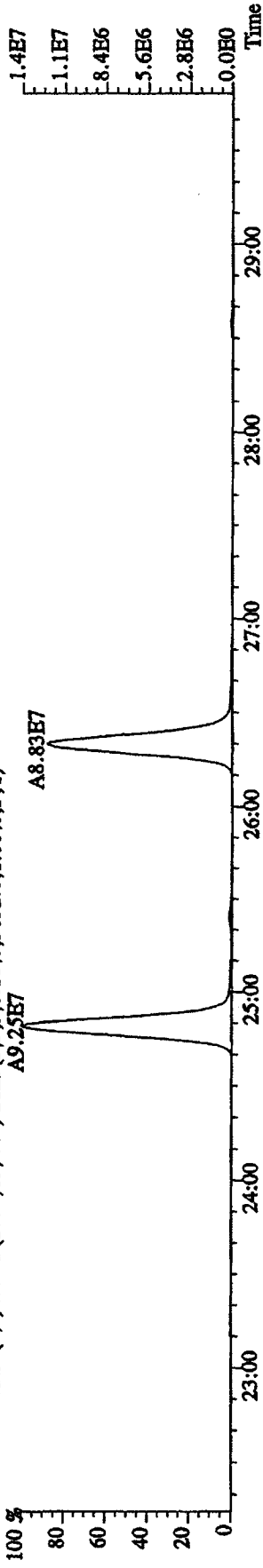
File:12AP104D5 #1-604 Acq:12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-UltraE  
 Sample#6 Text:ST0412D :CS-4 09DXN426 Exp:DIOXINRES8290A  
 339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2416.0,1.00%,F,T)  
 A2.00E8



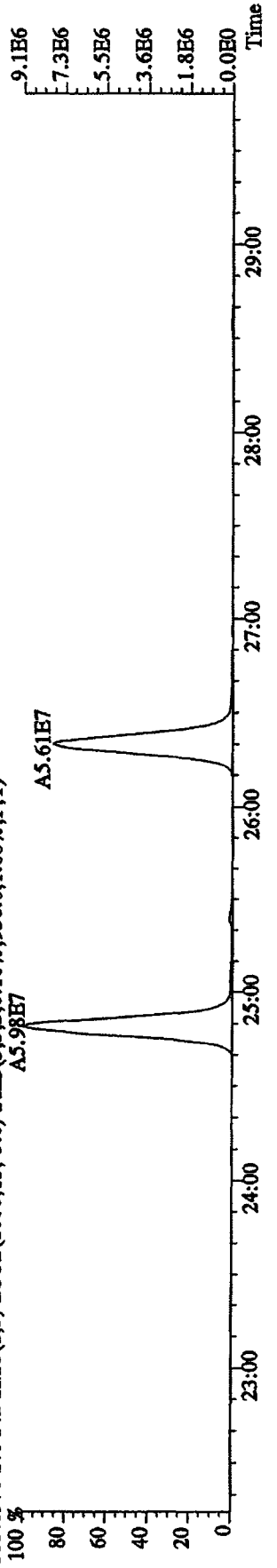
341.8567 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2652.0,1.00%,F,T)  
 A1.31E8



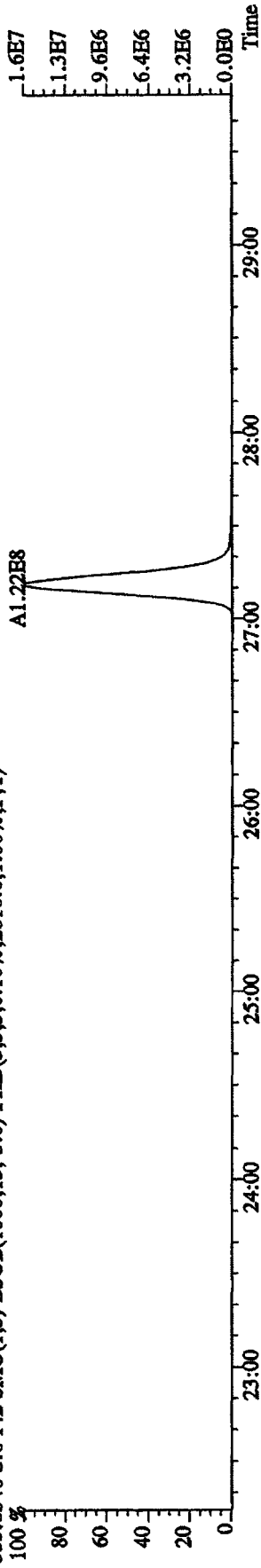
351.9000 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3032.0,1.00%,F,T)  
 A9.25E7



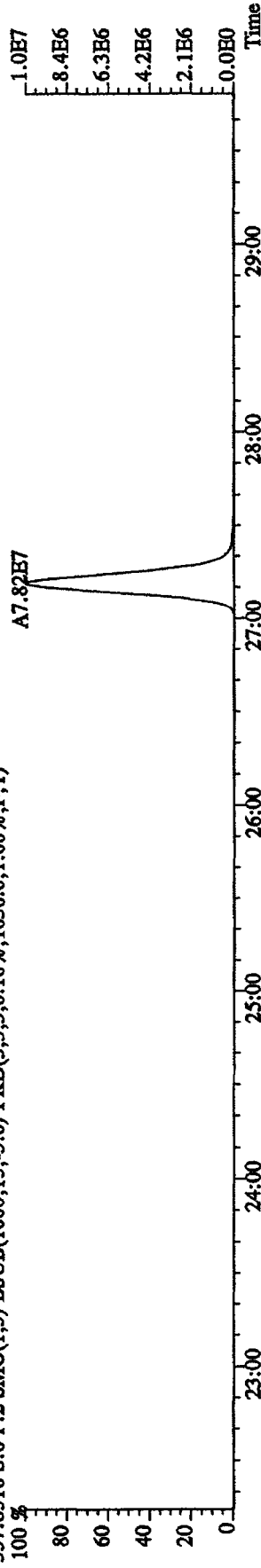
353.8970 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,936.0,1.00%,F,T)  
 A5.98E7



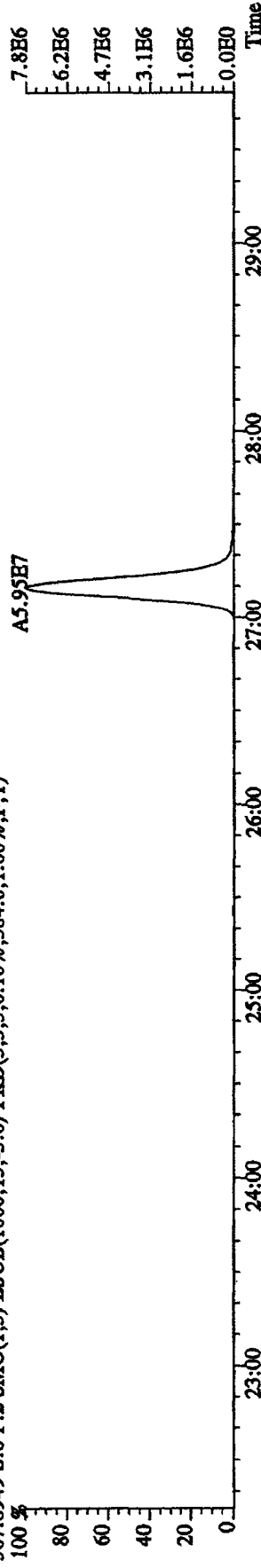
File:12API04D5 #1-604 Acq:12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 Text:ST0412D :CS-4 09DXN426 Exp:DIOXINRHS8290A  
 355.8546 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1636.0,1.00%,F,T)



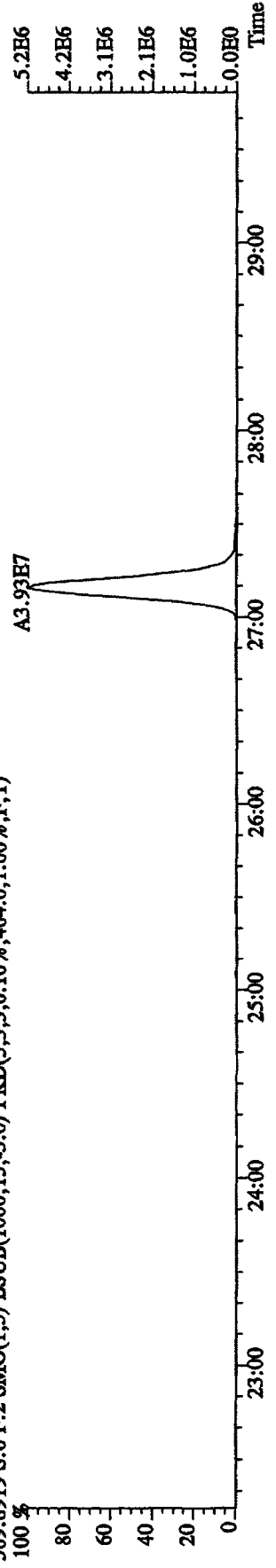
357.8516 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1636.0,1.00%,F,T)



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)



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)

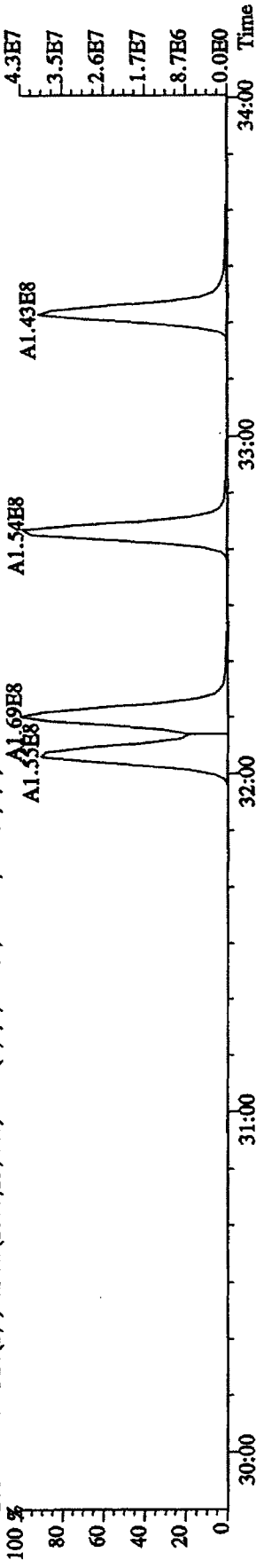




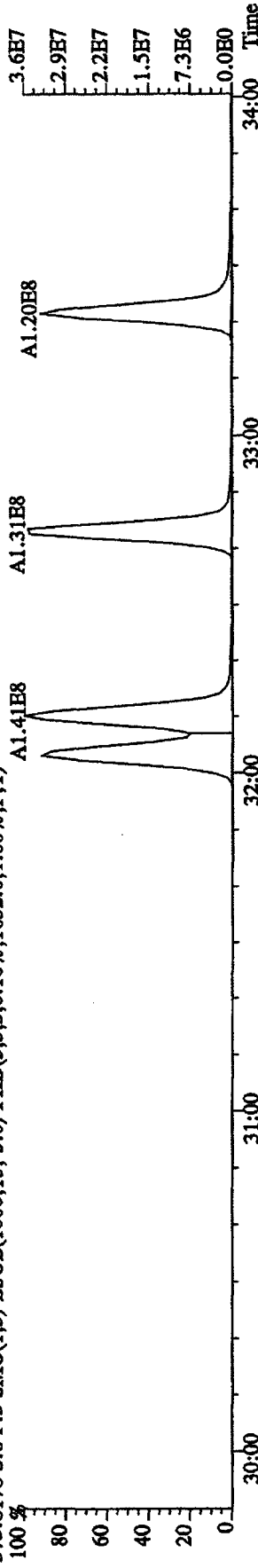
File:12AP104D5 #1-317 Acq:12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-UltimaE

Sample#6 Text:ST0412D :CS-4 09DXN426 Exp:DIOXINRES8290A

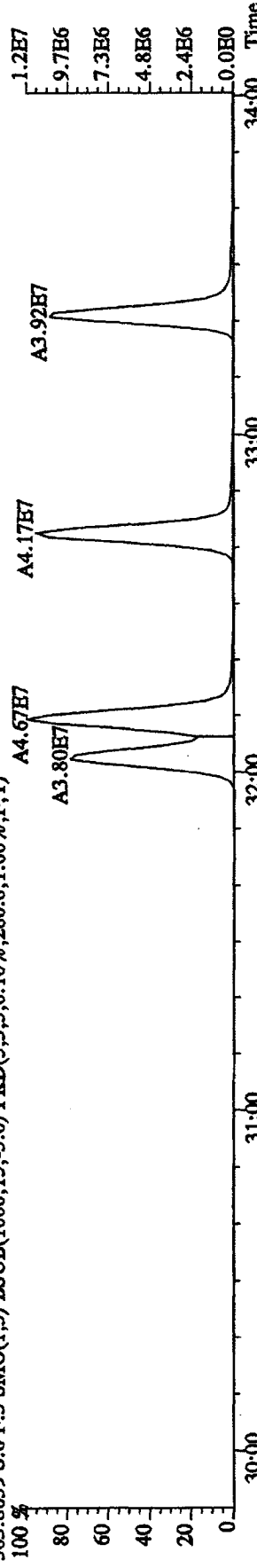
373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1632.0,1.00%,F,T)



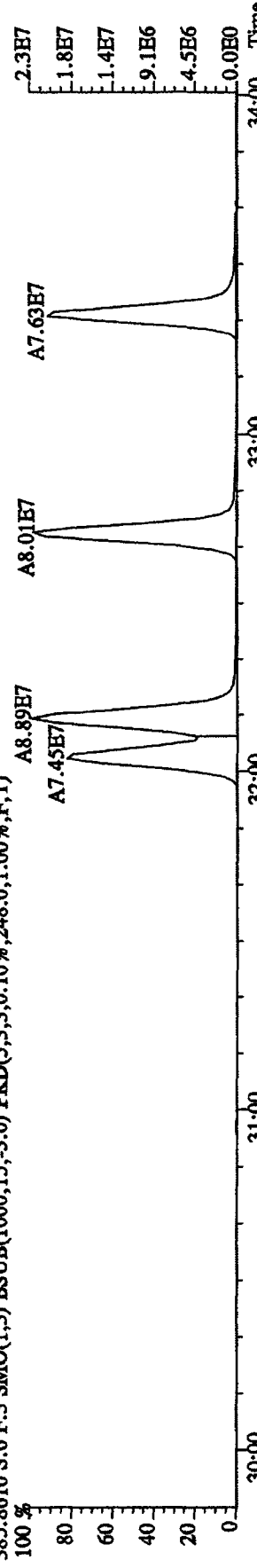
375.8178 S:6 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1632.0,1.00%,F,T)



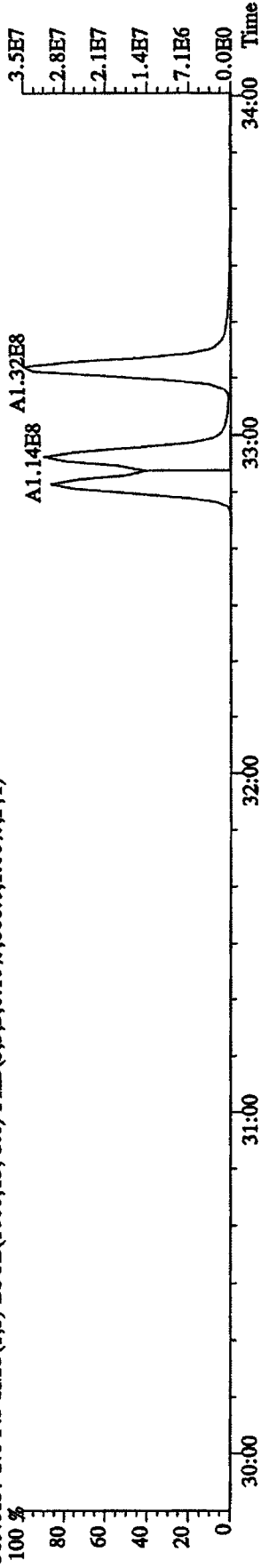
383.8639 S:6 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,280.0,1.00%,F,T)



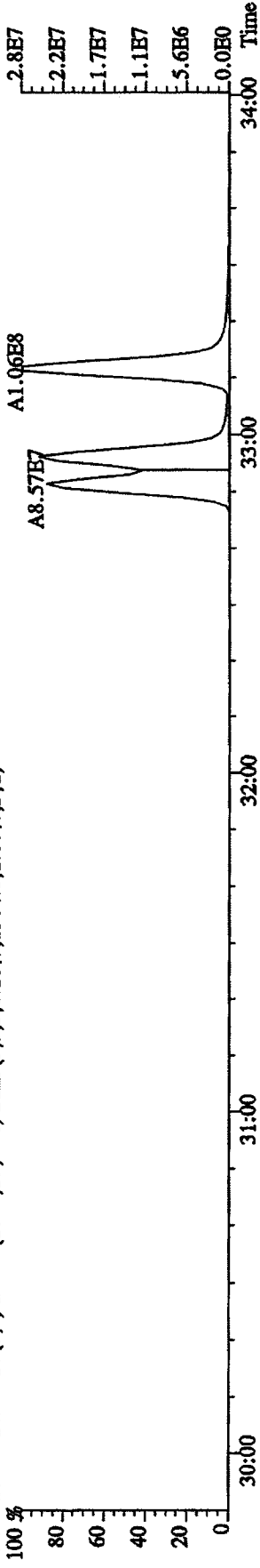
385.8610 S:6 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,248.0,1.00%,F,T)



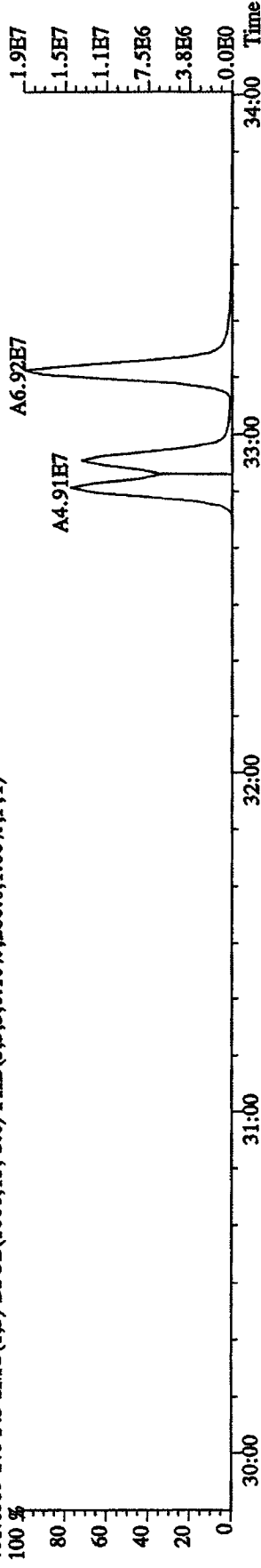
File:12AP104D5 #1-317 Acq:12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 Text:ST0412D :CS-4 09DXN426 Exp:DIOXINRES8290A  
 389.8157 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,868.0,1.00%,F,T)



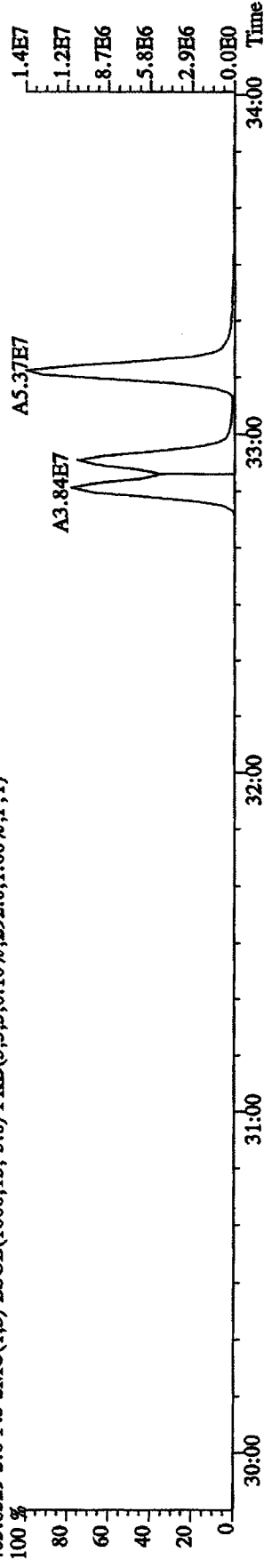
391.8127 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1364.0,1.00%,F,T)



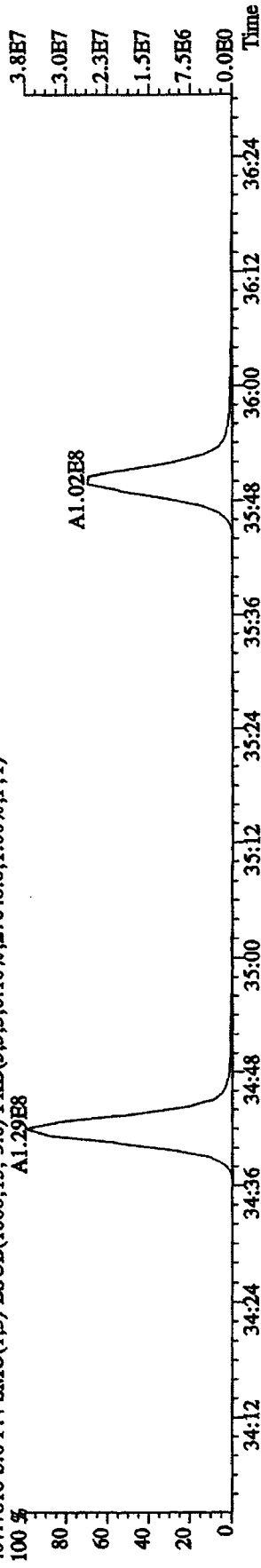
401.8559 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,280.0,1.00%,F,T)



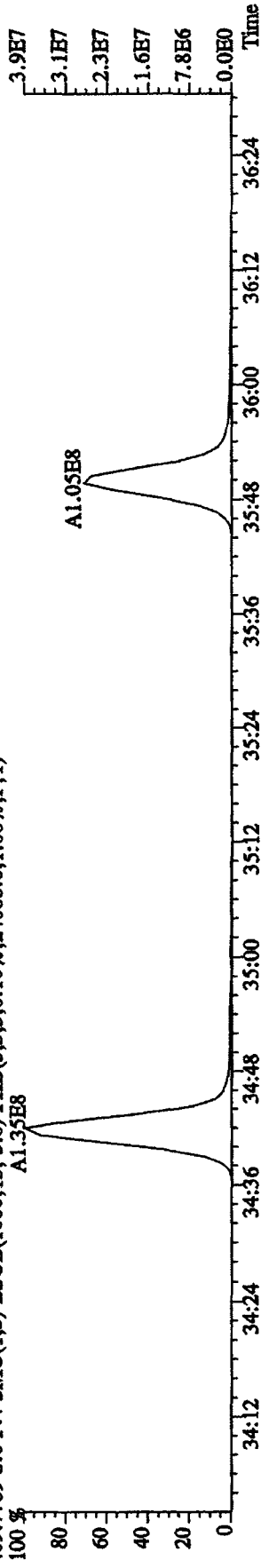
403.8529 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,292.0,1.00%,F,T)



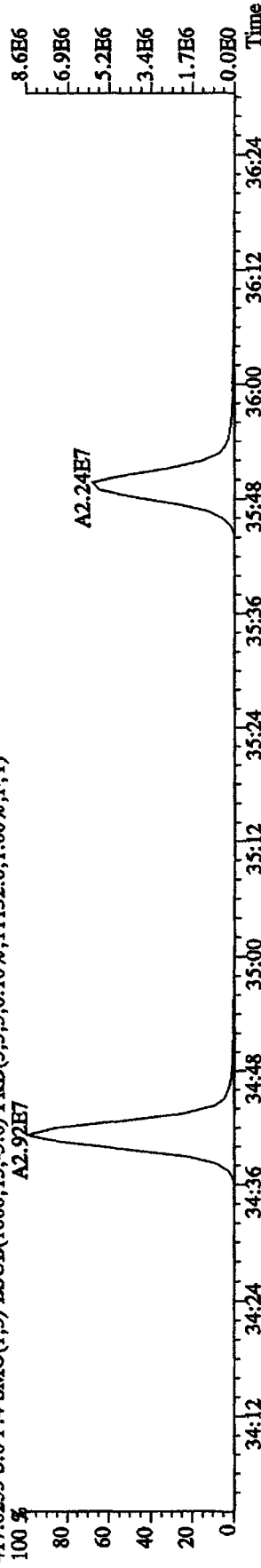
File:12API04D5 #1-198 Acq:12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 Text:ST0412D :CS-4 09DXN426 Exp:DIOXINRES8290A  
 407.7818 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27648.0,1.00%,F,T)



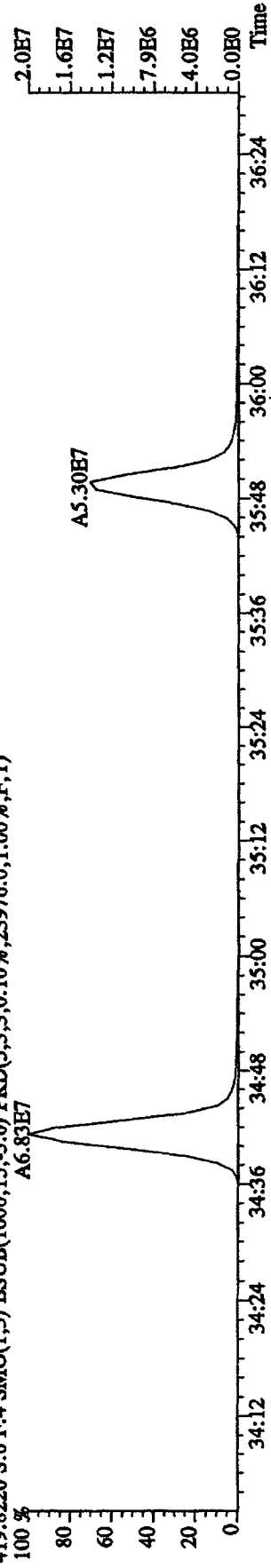
409.7789 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24088.0,1.00%,F,T)



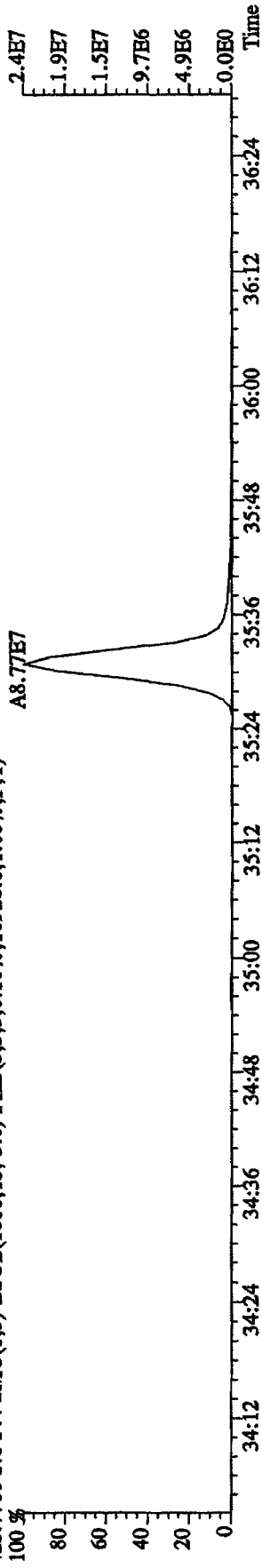
417.8253 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11132.0,1.00%,F,T)



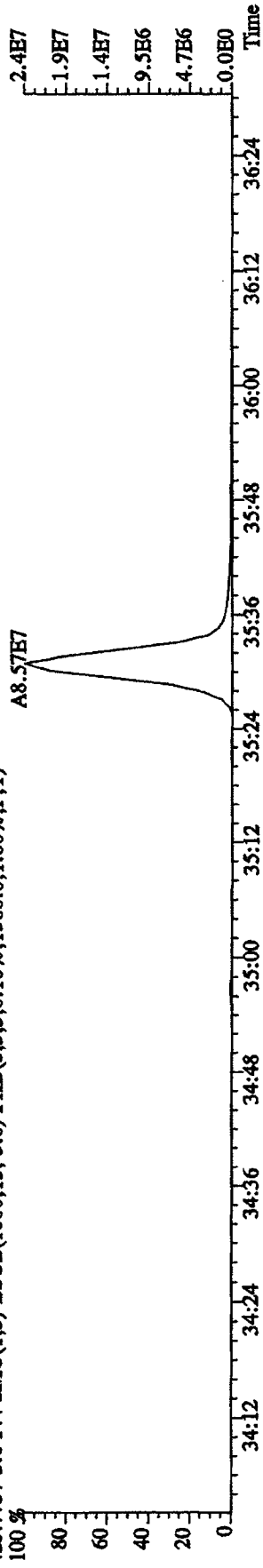
419.8220 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23976.0,1.00%,F,T)



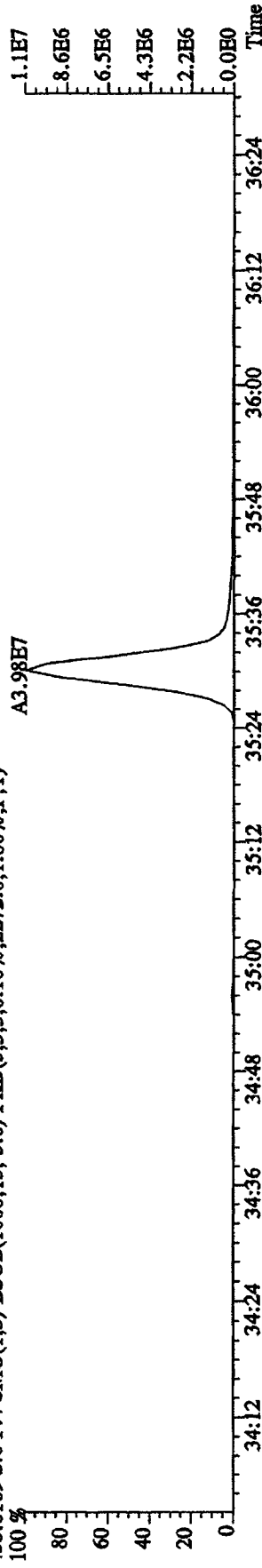
File:12API04D5 #1-198 Acq:12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#6 Text:ST0412D :CS-4 09DXN426 Exp:DJOXINRES8290A  
 423.7766 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,10928.0,1.00%,F,T)



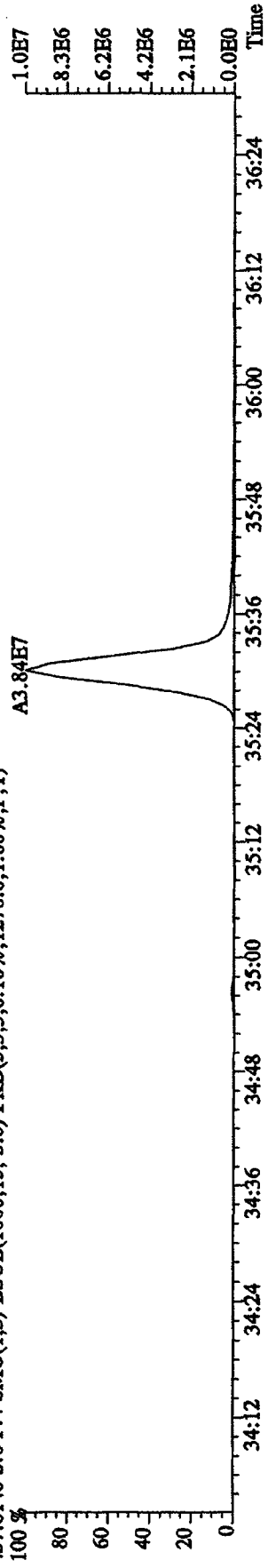
425.7737 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1560.0,1.00%,F,T)



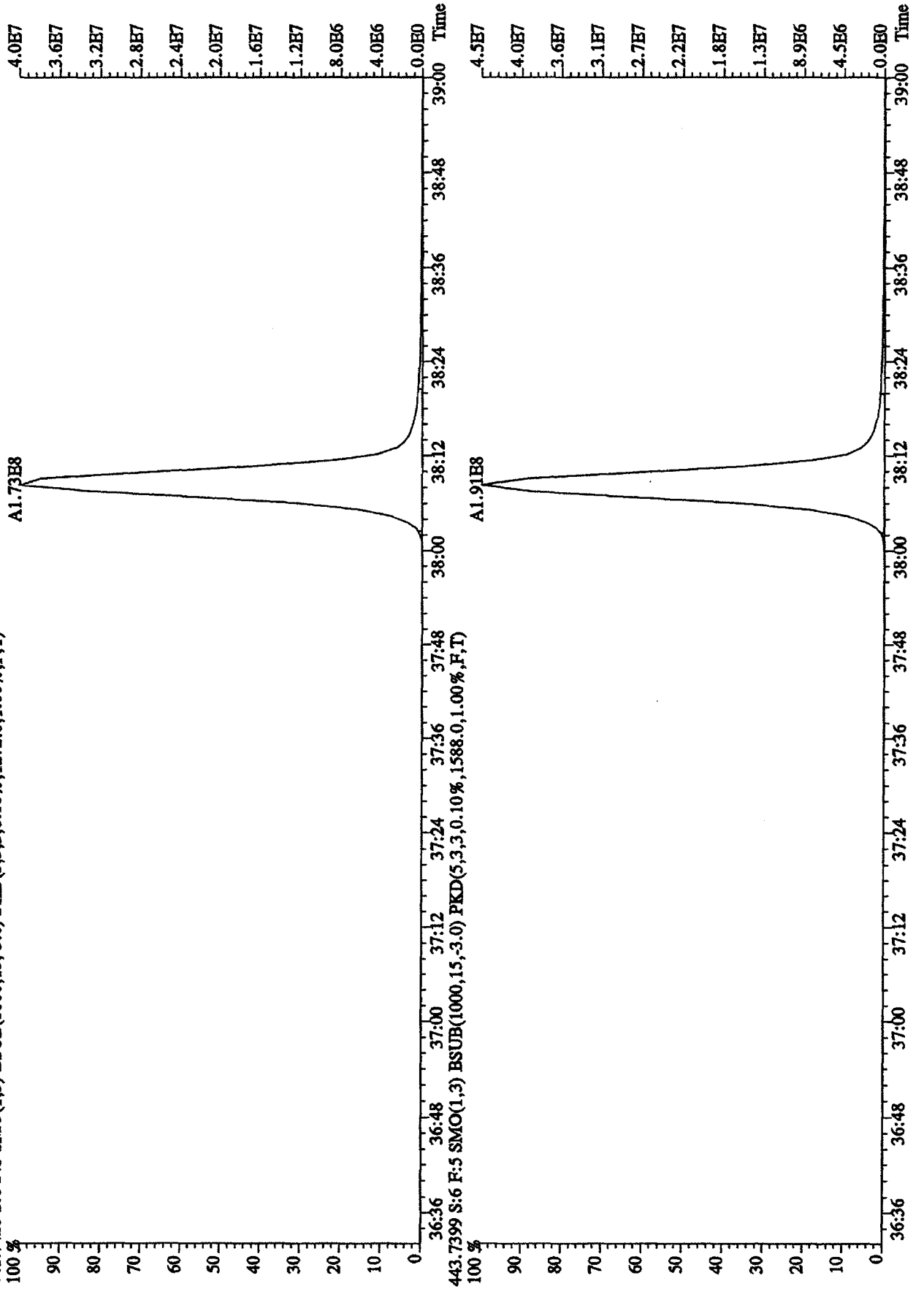
435.8169 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2272.0,1.00%,F,T)



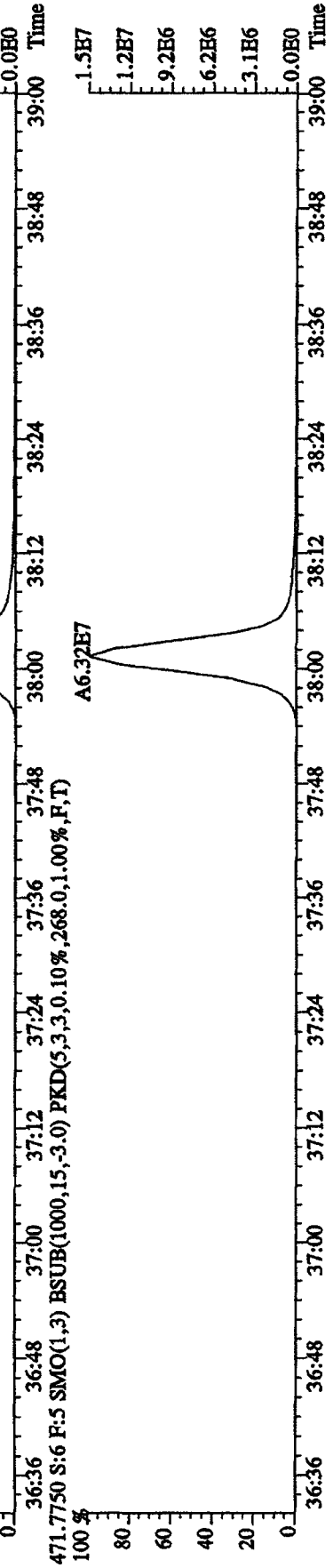
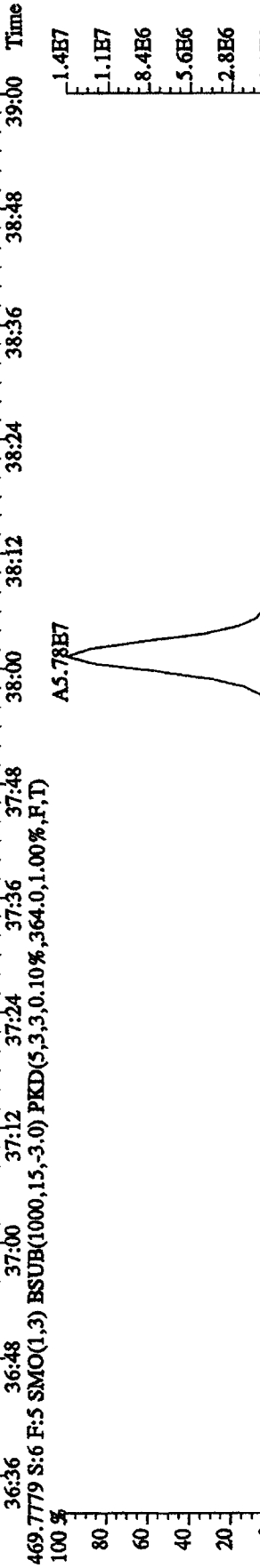
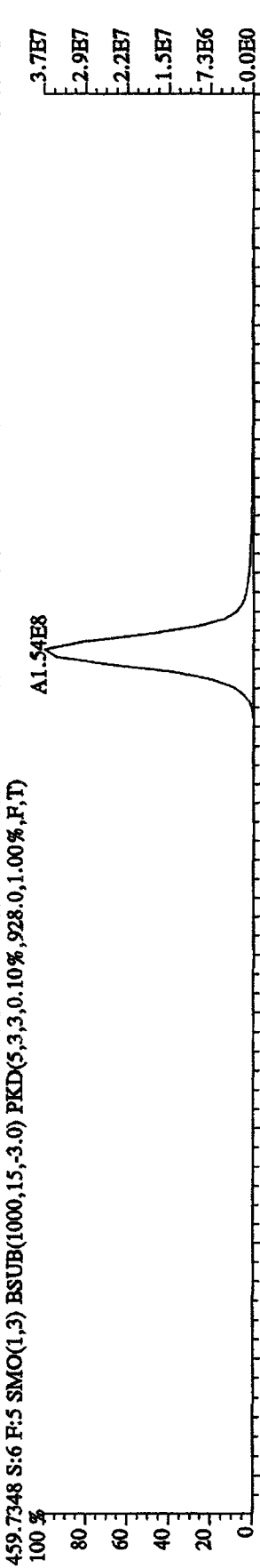
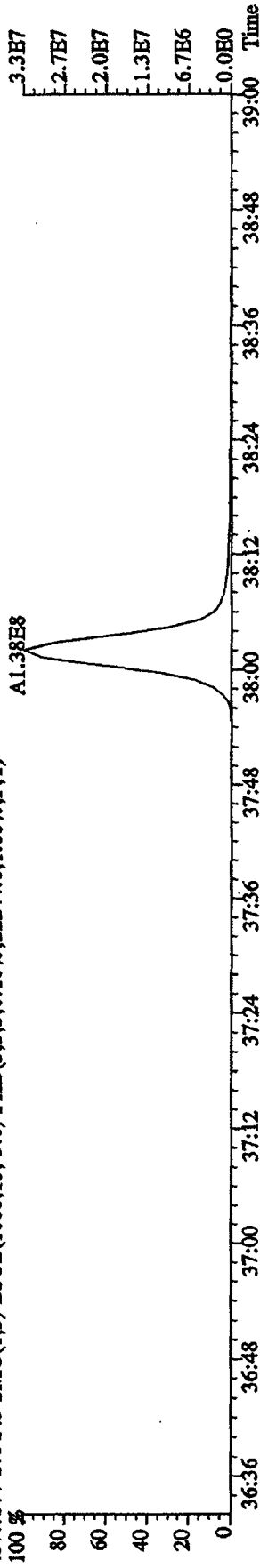
437.8140 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1276.0,1.00%,F,T)



File:12AP104D5 #1-190 Acq:12-APR-2010 12:16:51 GC HI+ Voltage SIR Autospec-UltimaE  
 Sample#6 Text:ST0412D :CS-4 09DXN426 Exp:DIOXINRES8290A  
 441.7428 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1272.0,1.00%,F,T)



File:12AP104D5 #1-190 Acq:12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#6 Text:ST0412D :CS-4 09DXN426 Exp:DIOXINRES8290A  
 457.7377 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22244.0,1.00%,F,T)

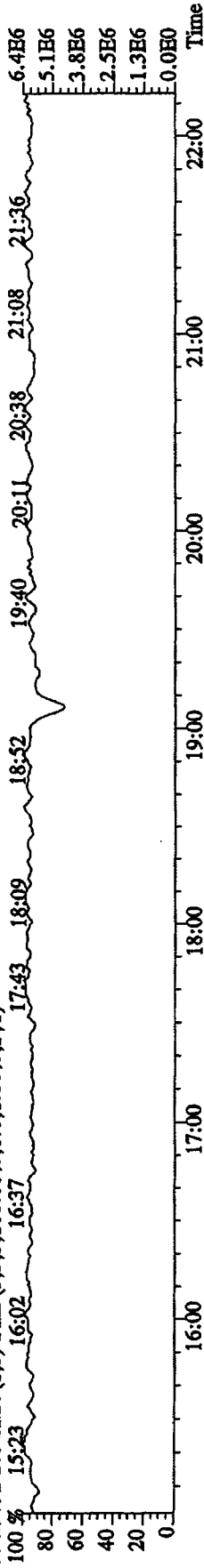


File: 12AP104D5 #1-435 Acq: 12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-UltimaE

Sample#6 Text: ST0412D : CS-4 09DXN426 Exp: DIOXINRES8290A

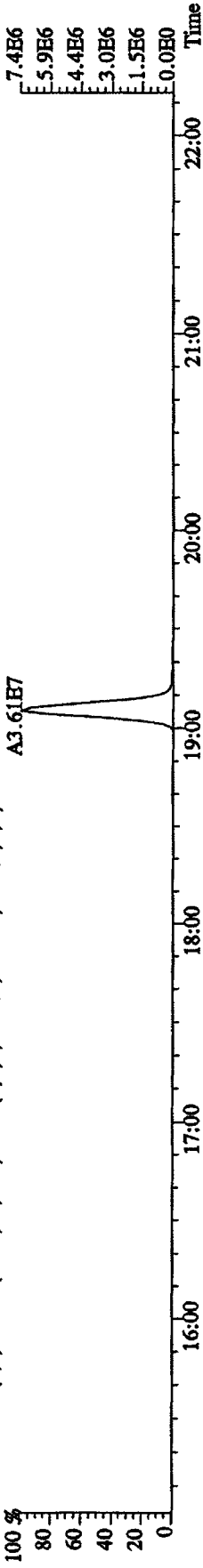
354.9792 S: 6 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100% 15:23 16:02 16:37 17:43 18:09 18:52 19:40 20:11 20:38 21:08 21:36



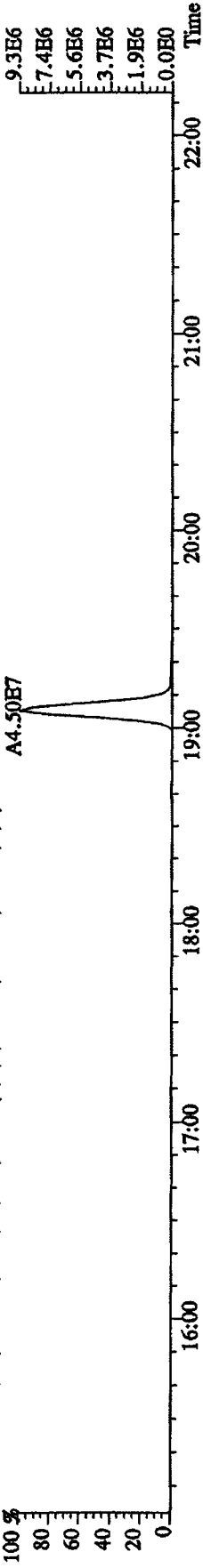
303.9016 S: 6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2052.0,1.00%,F,T)

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



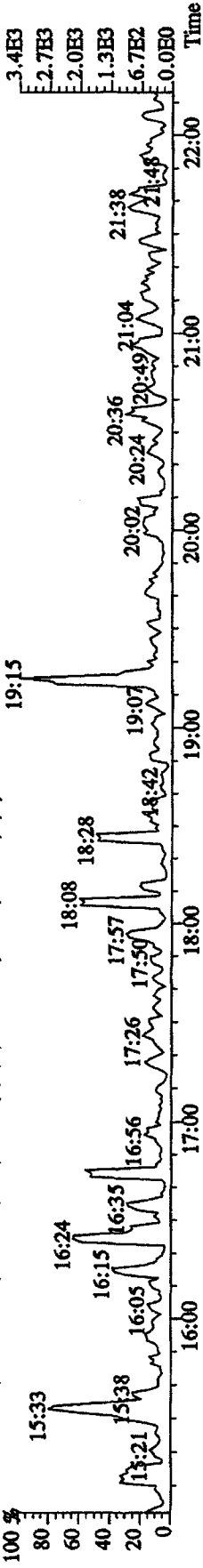
305.8987 S: 6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2832.0,1.00%,F,T)

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



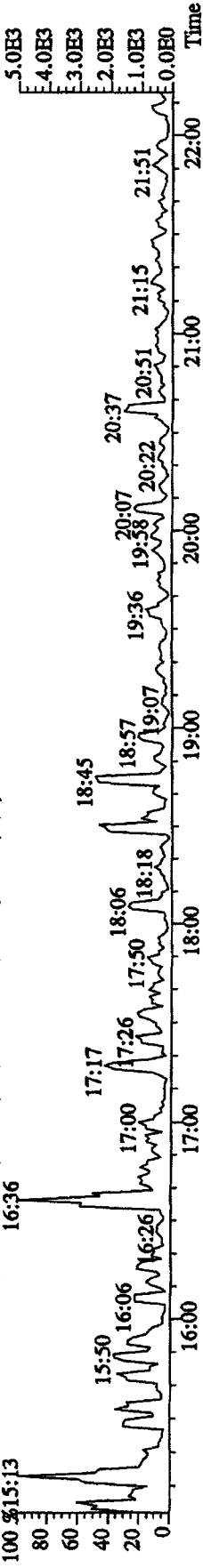
375.8364 S: 6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,452.0,1.00%,F,T)

100% 15:33 16:24 16:15 16:35 16:56 17:26 17:50 17:57 18:08 18:28 18:45 18:57 19:07 19:36 19:58 20:07 20:22 20:37 20:49 20:51 21:04 21:15 21:38 21:48



409.7974 S: 6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,408.0,1.00%,F,T)

100% 15:13 15:50 16:06 16:26 16:36 17:00 17:26 17:50 18:06 18:18 18:45 18:57 19:07 19:36 19:58 20:07 20:22 20:37 20:49 20:51 21:04 21:15 21:38 21:48

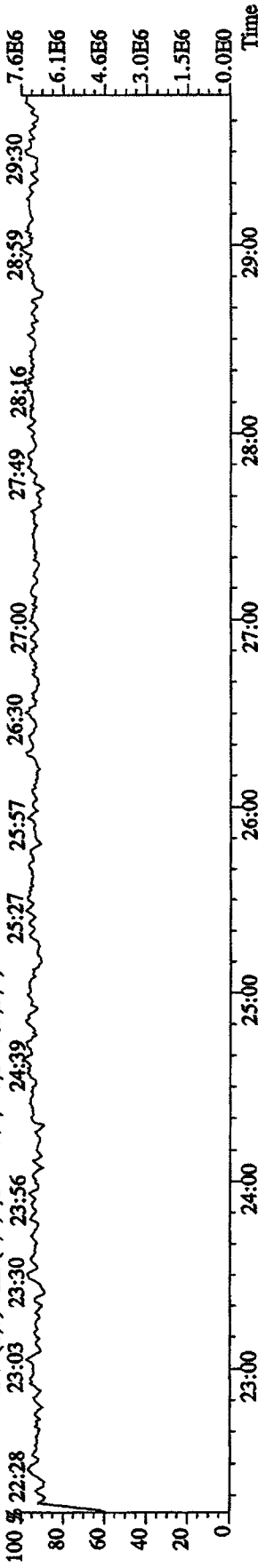


File:12API04D5 #1-604 Acq:12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-UltimaE

Sample#6 Text:ST0412D :CS-4 09DXN426 Exp:DIOXINRES8290A

354.9792 S:6 F:2 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,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



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 %

25:00 25:00 25:00 26:00 26:00 26:00

A1.88E8

A2.00E8

3.1E7

2.5E7

1.9E7

1.3E7

6.3E6

0.0E0

Time

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

341.8567 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2652.0,1.00%,F,T)

100 %

25:00 25:00 25:00 26:00 26:00 26:00

A1.31E8

A1.24E8

2.0E7

1.6E7

1.2E7

8.2E6

4.1E6

0.0E0

Time

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

409.7974 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,380.0,1.00%,F,T)

100 %

23:50 23:50 23:50 24:00 24:00 24:00 25:00 25:00 25:00 26:00 26:00 26:00 27:00 27:00 27:00 28:00 28:00 28:00 29:00 29:00 29:00

23:28

23:50

26:24

26:51

26:41

27:01

27:49

28:19

28:54

28:04

27:43

27:33

28:50

28:44

29:30

29:26

2.0E3

1.6E3

1.2E3

8.0E2

4.0E2

0.0E0

Time

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

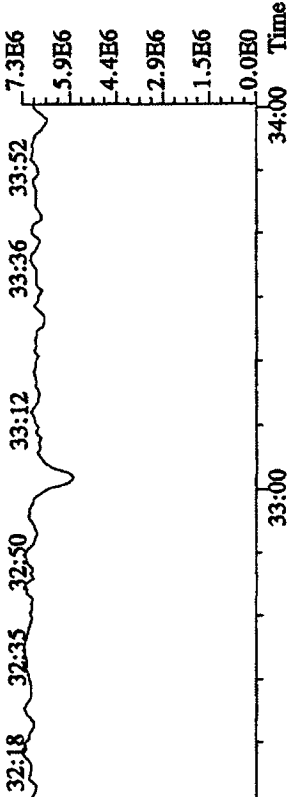


File: 12API04D5 #1-317 Acq: 12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-UltimaE

Sample#6 Text: ST0412D : CS-4 09DXN426 Exp: DIOXINRES8290A

430.9728 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

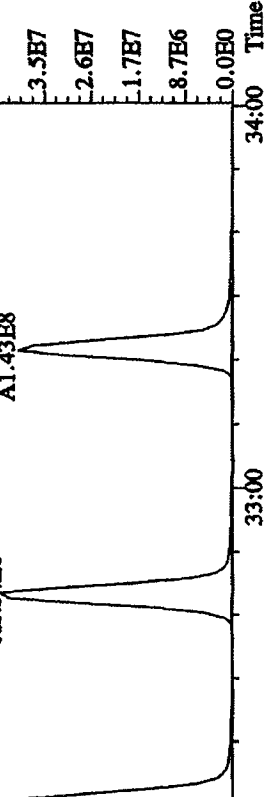
100 % 30:07 30:24 30:49 31:02 31:16 31:34 31:47



373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2,520.0,1.00%,F,T)

100 %

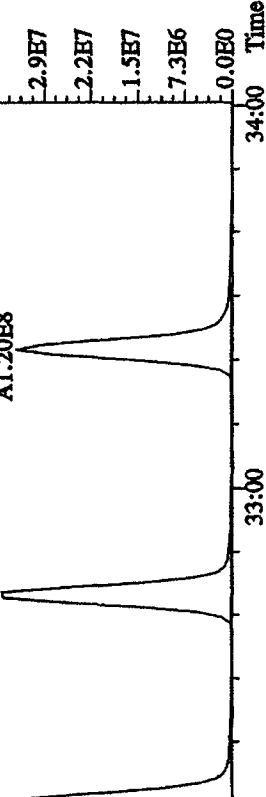
30:00 31:00 32:00 33:00 34:00



375.8178 S:6 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1,632.0,1.00%,F,T)

100 %

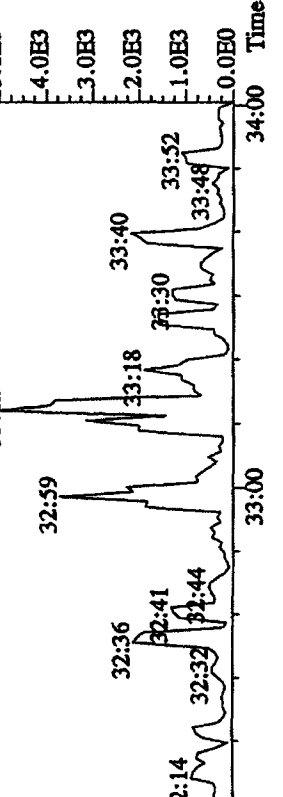
30:00 31:00 32:00 33:00 34:00



445.7555 S:6 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,3,72.0,1.00%,F,T)

100 %

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

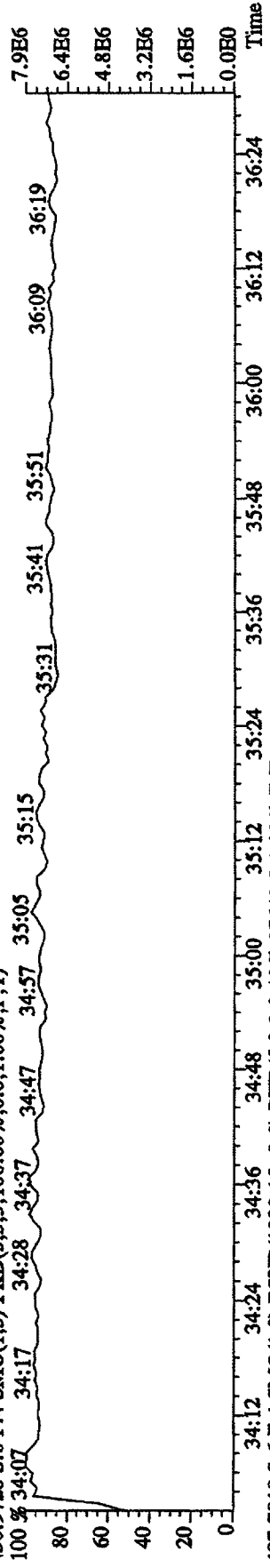


File:12AP104D5 #1-198 Acq:12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-UltimaB

Sample#6 Text:ST0412D :CS-4 09DXN426 Exp:DIOXINRES8290A

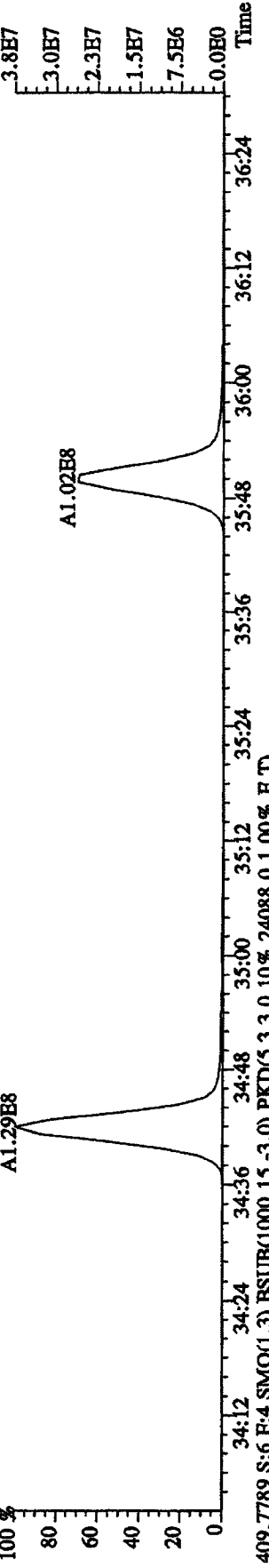
430.9728 S:6 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 % 34:07 34:17 34:28 34:37 34:47 34:57 35:05 35:15



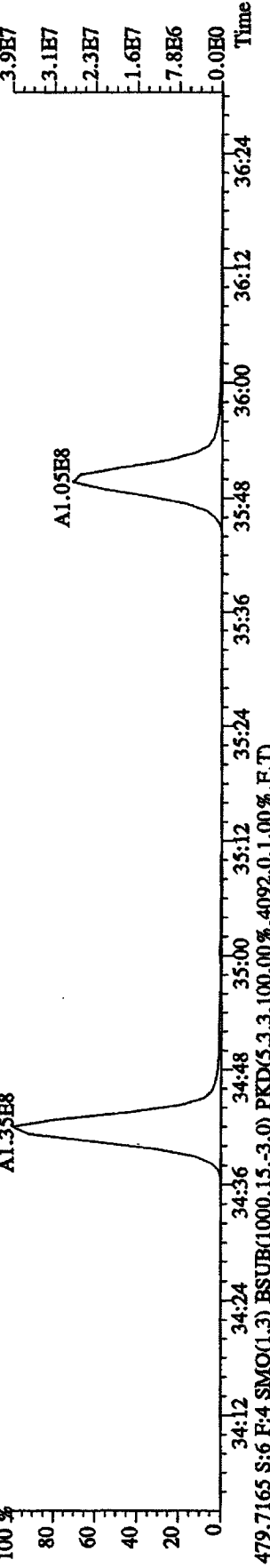
407.7818 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,27648,0.100%,F,T)

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



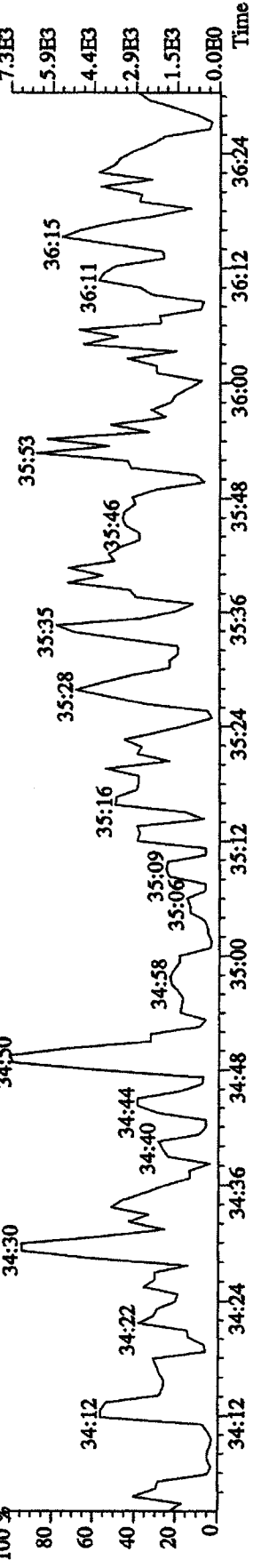
409.7789 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,24088,0.100%,F,T)

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



479.7165 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,4092,0.100%,F,T)

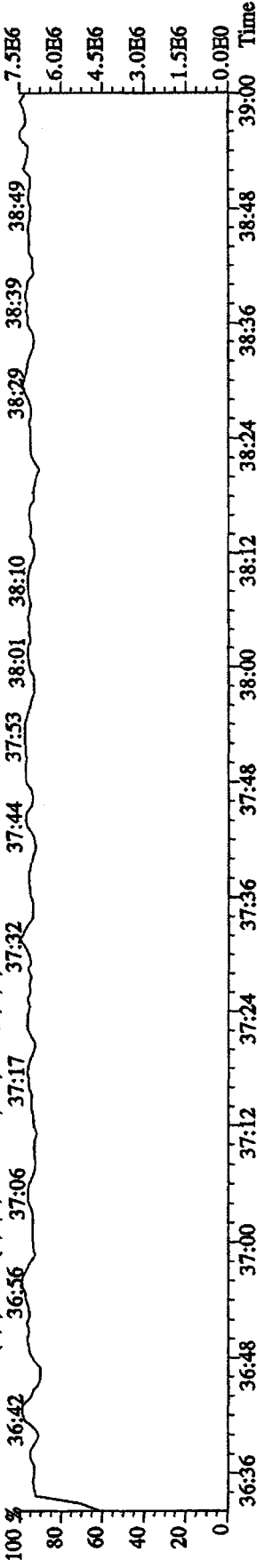
100 % 34:12 34:22 34:30 34:40 34:50 35:00 35:10 35:20 35:30 35:40 35:50 36:00 36:10 36:20 36:30



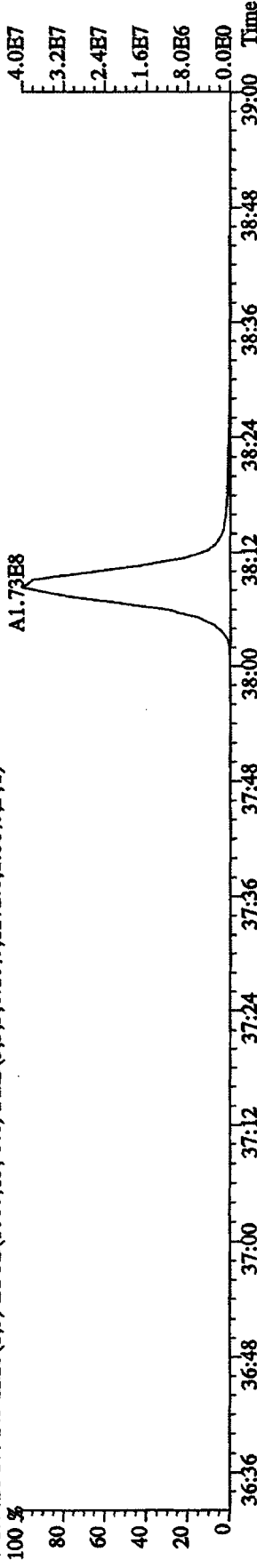
File: 12AP104D5 #1-190 Acq: 12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-UltimaE

Sample#6 Text: ST0412D : CS-4 09DXN426 Exp: DIOXINRES8290A

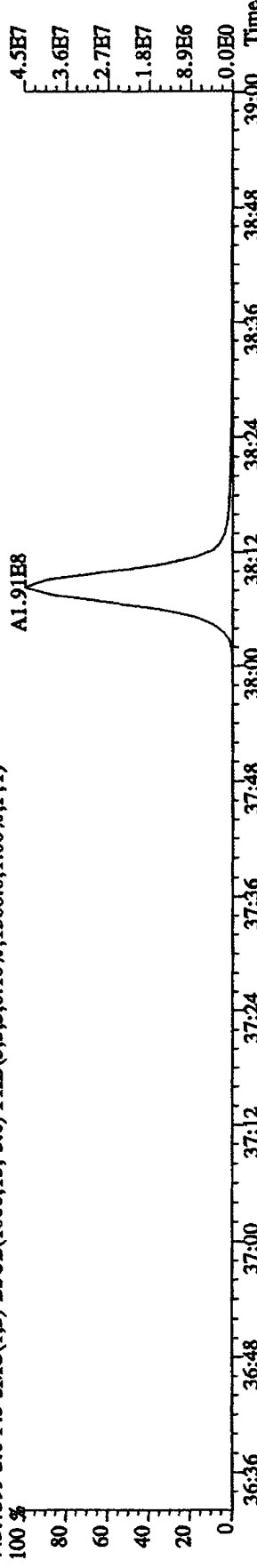
442.9728 S:6 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



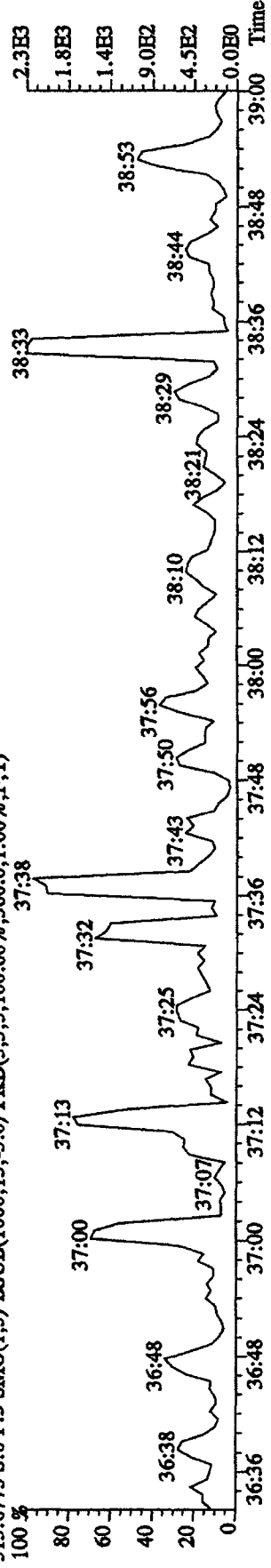
441.7428 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1272.0,1.00%,F,T)



443.7399 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1588.0,1.00%,F,T)

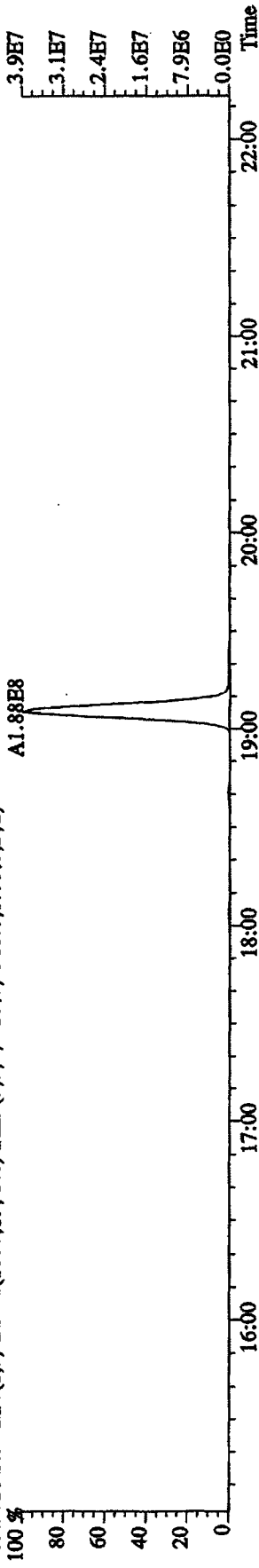


513.6775 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,360.0,1.00%,F,T)

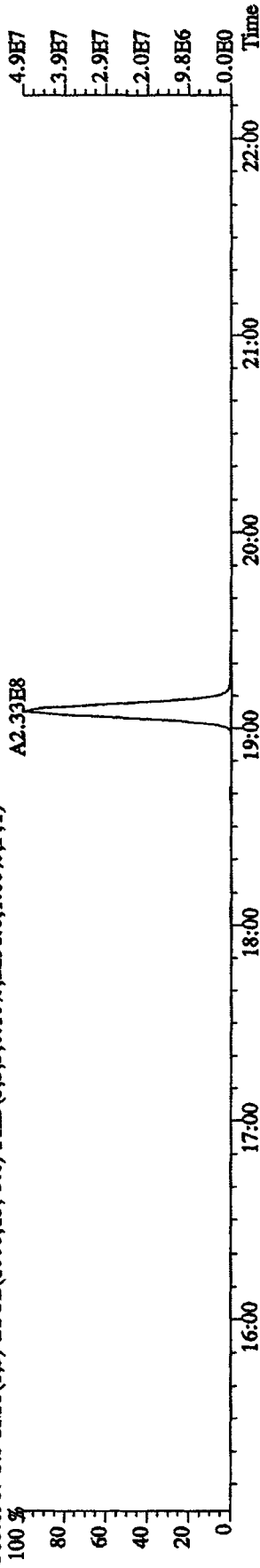


File:12AP104D5 #1-435 Acq:12-APR-2010 11:32:49 GC EI + Voltage SIR Autospec-UltimaE

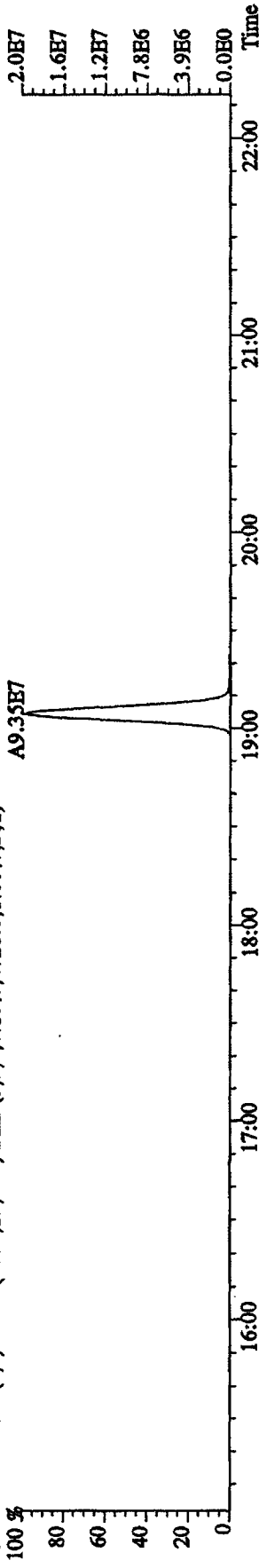
Sample#5 Text:ST0412C :CS-5 09DXN456 Exp:DIOXINRES8290A  
303.9016 S:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2960.0,1.00%,F,T)



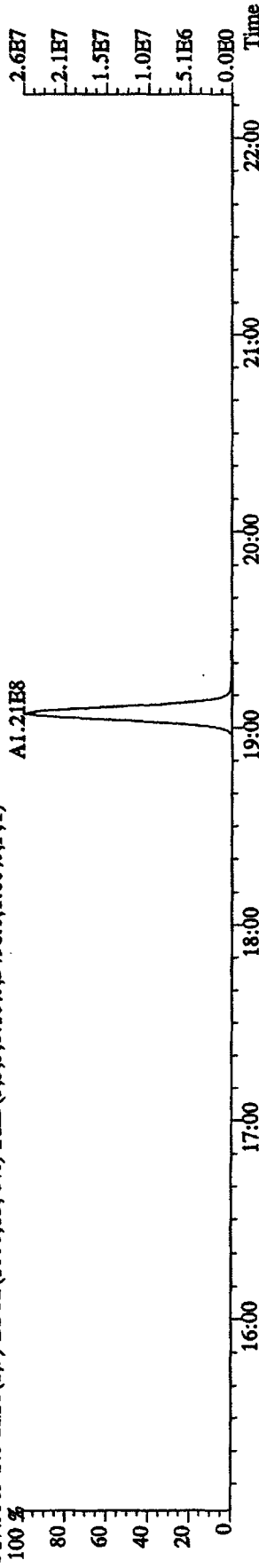
305.8987 S:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2296.0,1.00%,F,T)



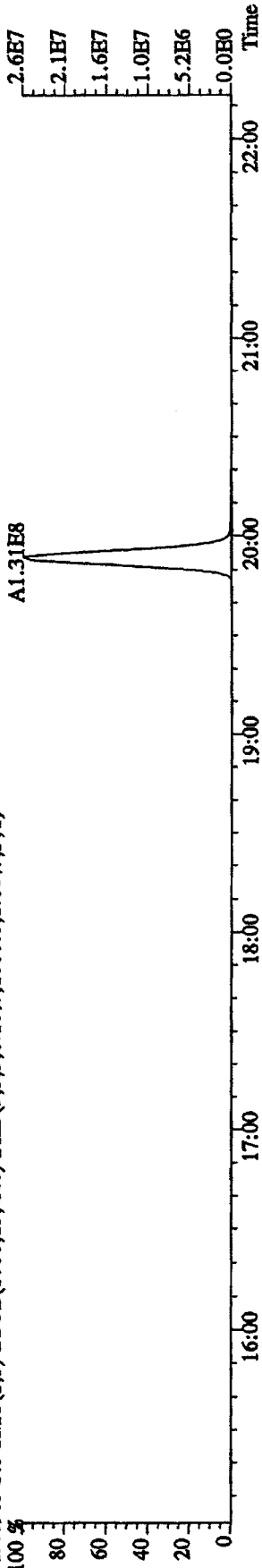
315.9419 S:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4728.0,1.00%,F,T)



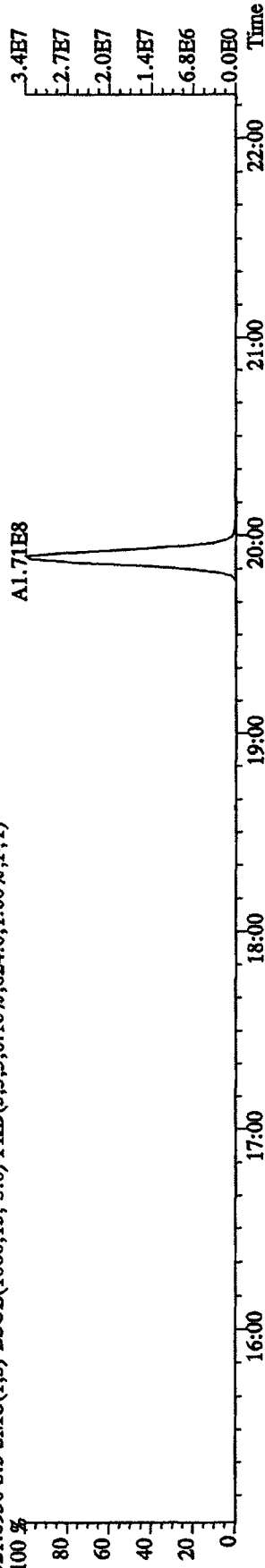
317.9389 S:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3496.0,1.00%,F,T)



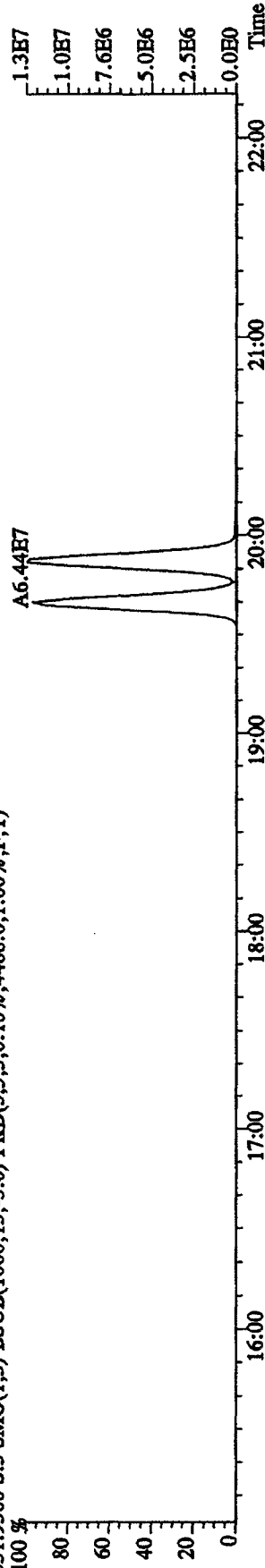
File:12AP104D5 #1-435 Acq:12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 Text:ST0412C :CS-5 09DXN456 Exp:DIOXINRES8290A  
 319.8965 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1000.0,1.00%,F,T)



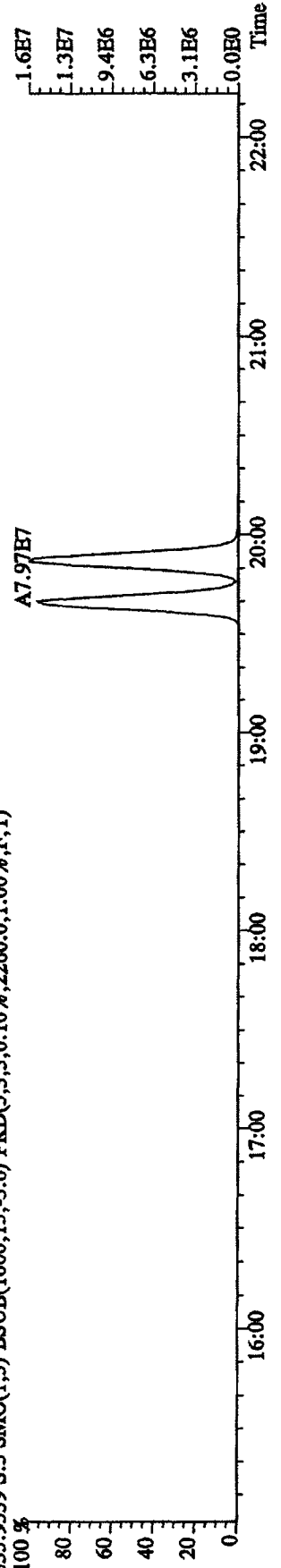
321.8936 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,824.0,1.00%,F,T)



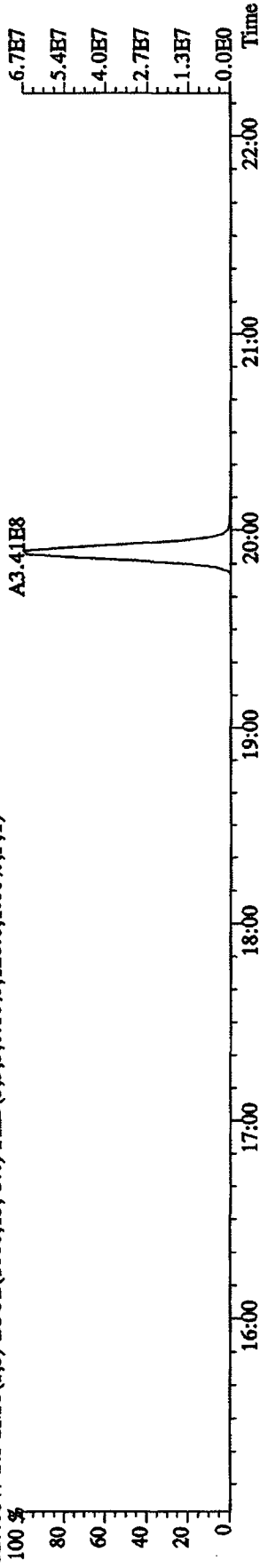
331.9368 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4488.0,1.00%,F,T)



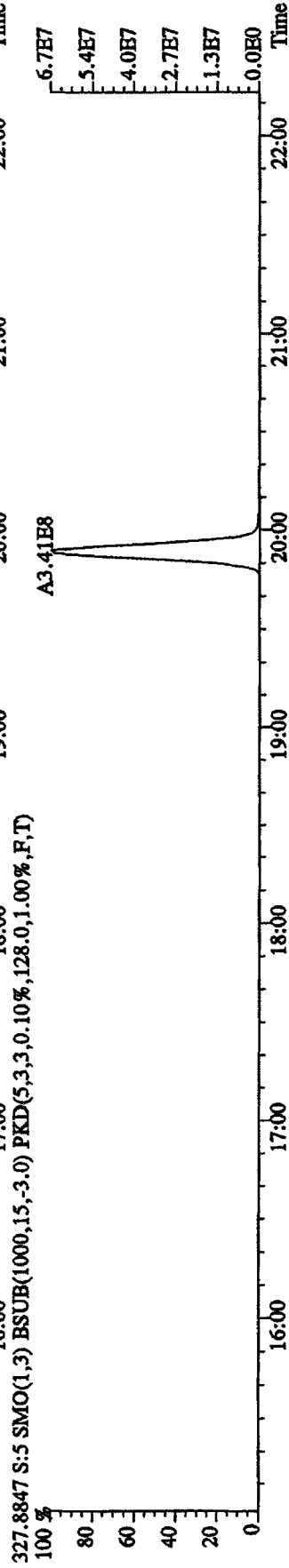
333.9339 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2260.0,1.00%,F,T)



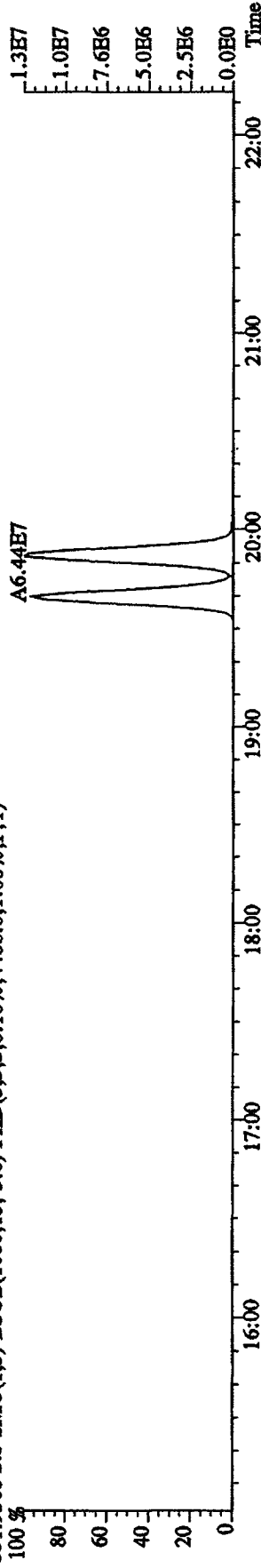
File:12API04D5 #1-435 Acq:12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 Text:ST0412C :CS-5 09DXN456 Exp:DIOXINRES8290A  
 327.8847 S:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,128.0,1.00%,F,T)



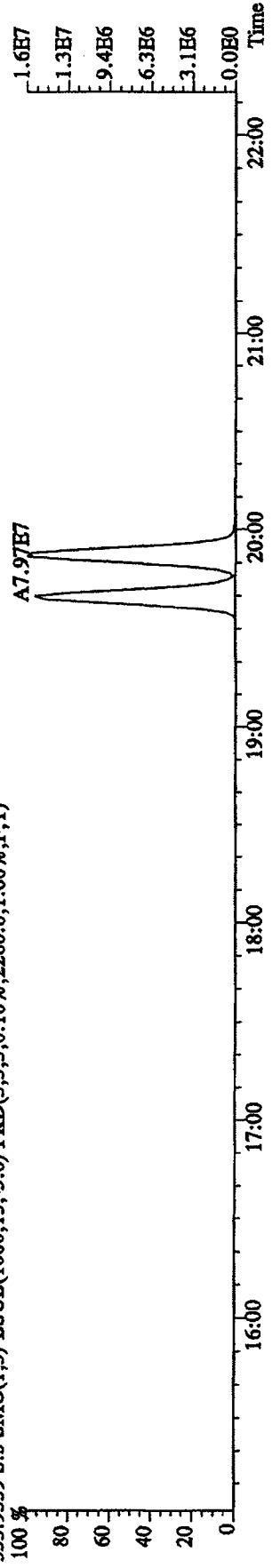
327.8847 S:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,128.0,1.00%,F,T)



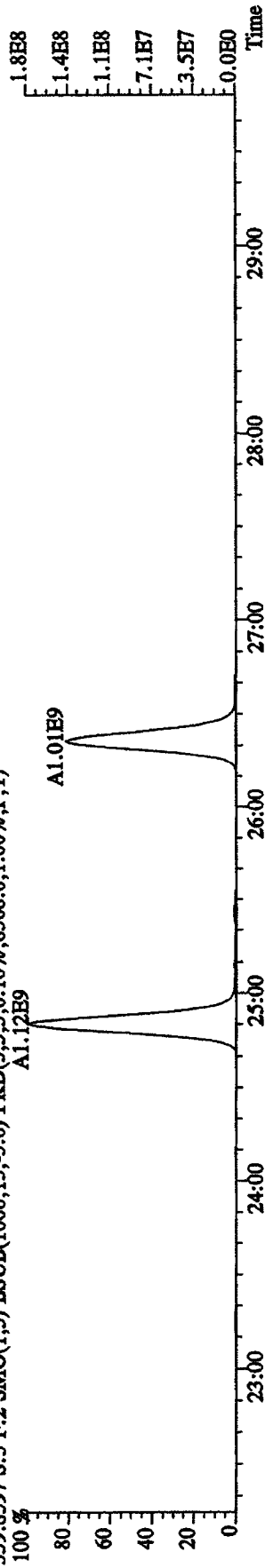
331.9368 S:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4488.0,1.00%,F,T)



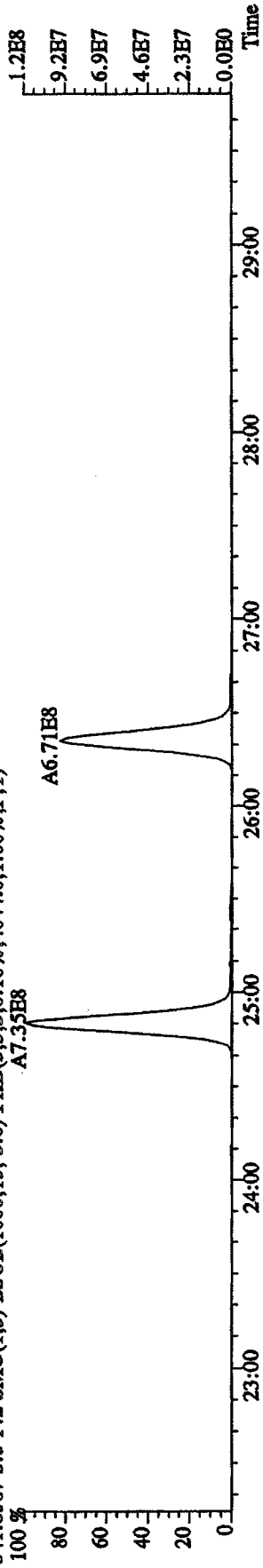
333.9339 S:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2260.0,1.00%,F,T)



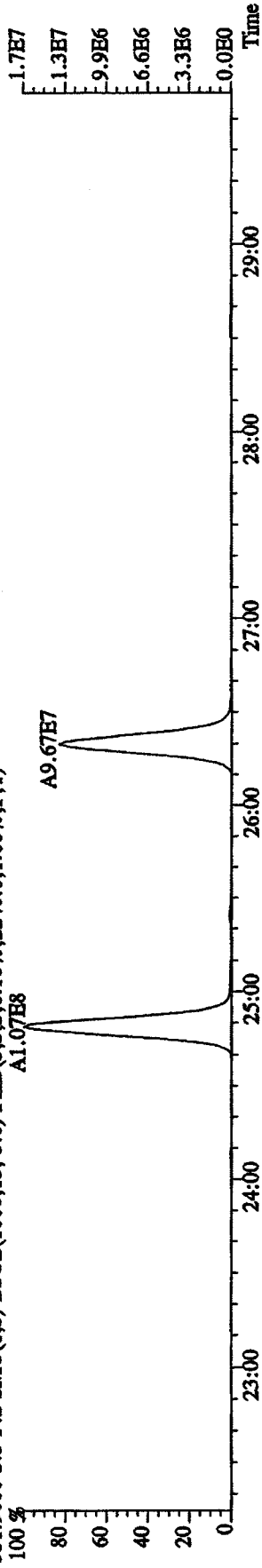
File: 12AP104D5 #1-604 Acq: 12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 Text: ST0412C :CS-5 09DXN456 Exp: DIOXINRES8290A  
 339.8597 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8368.0,1.00%,F,T)  
 100 %



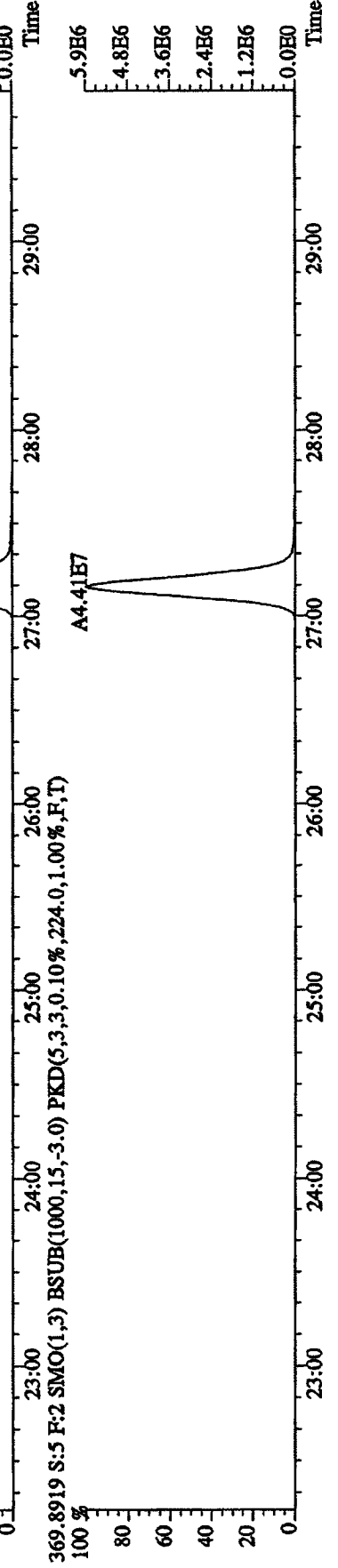
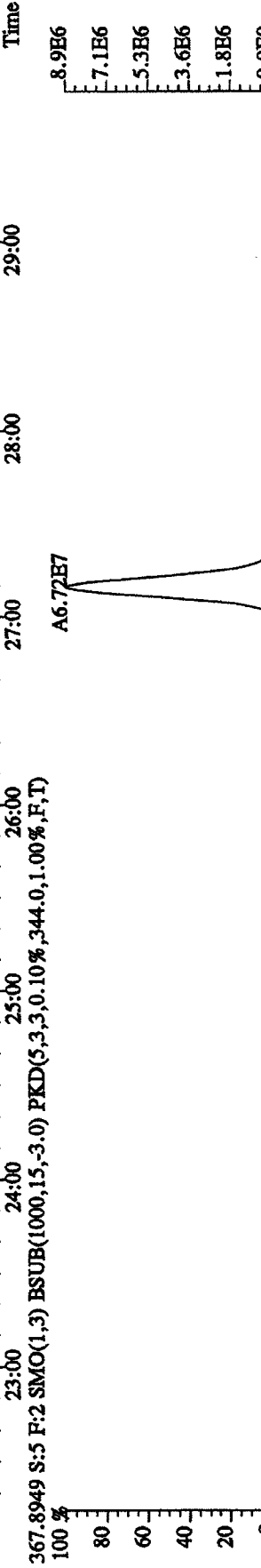
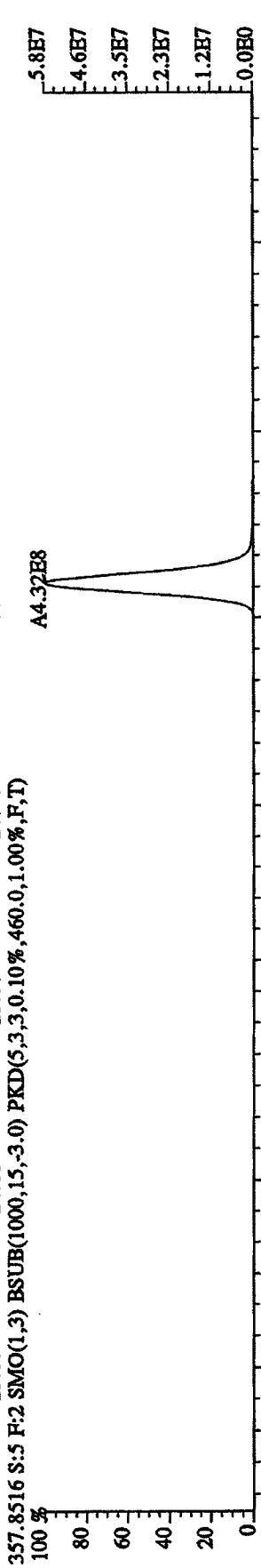
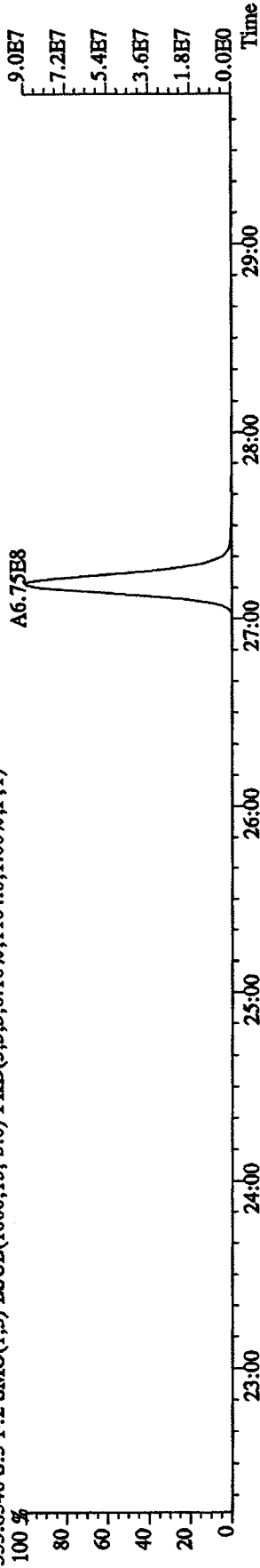
351.9000 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2240.0,1.00%,F,T)  
 100 %



353.8970 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2120.0,1.00%,F,T)  
 100 %



File:12API04D5 #1-604 Acq:12-APR-2010 11:32:49 GC EI+ 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%,1104.0,1.00%,F,T)

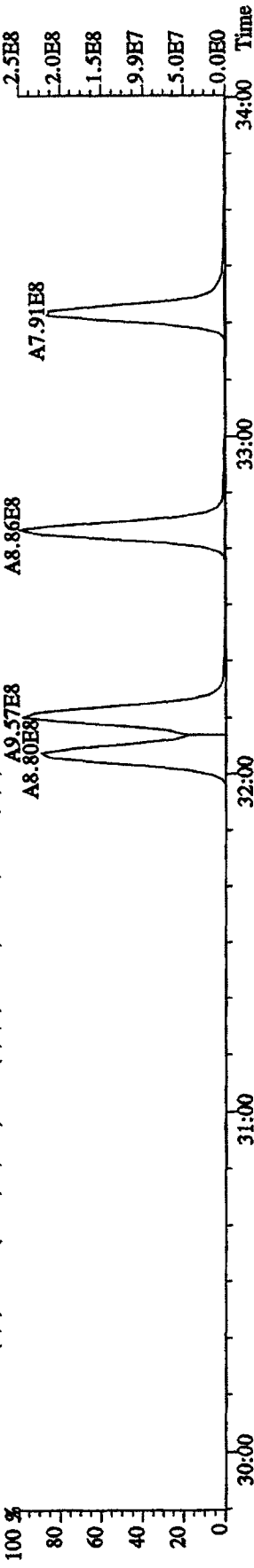




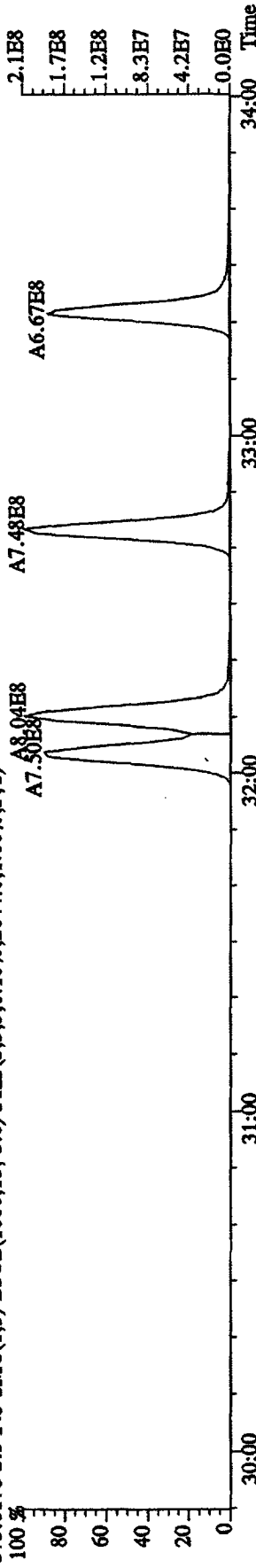
File:12AP104D5 #1-317 Acq:12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-UltimaE

Sample#5 Text:ST0412C :CS-5 09DXN456 Exp:DJOXINRES8290A

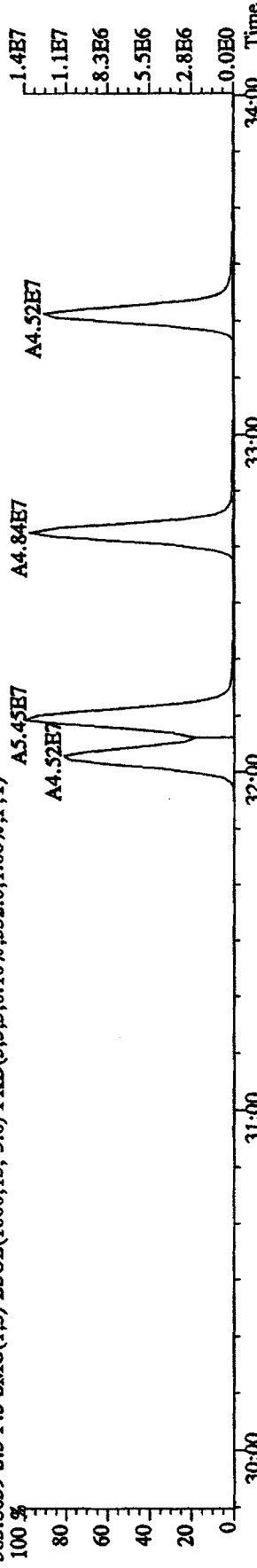
373.8208 S:5 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2044.0,1.00%,F,T)



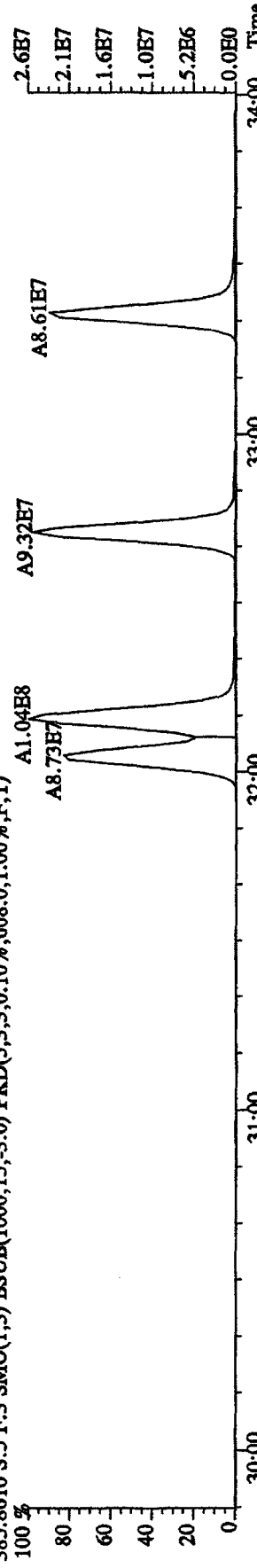
375.8178 S:5 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2044.0,1.00%,F,T)



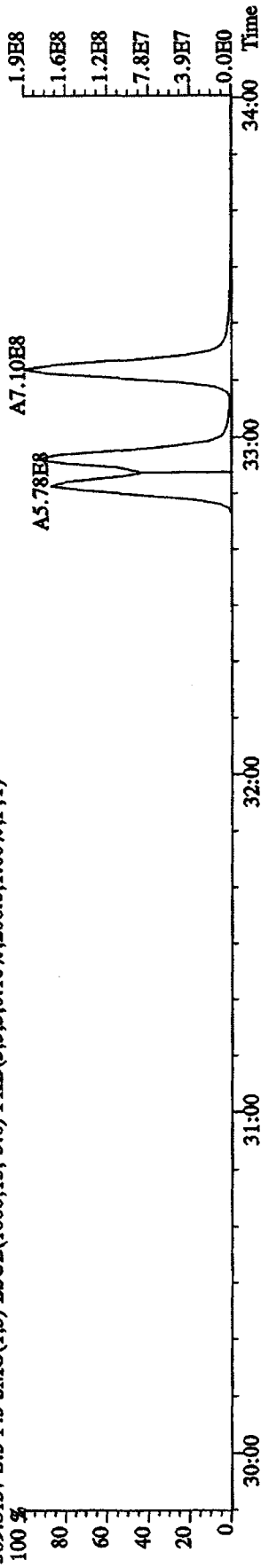
383.8639 S:5 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,332.0,1.00%,F,T)



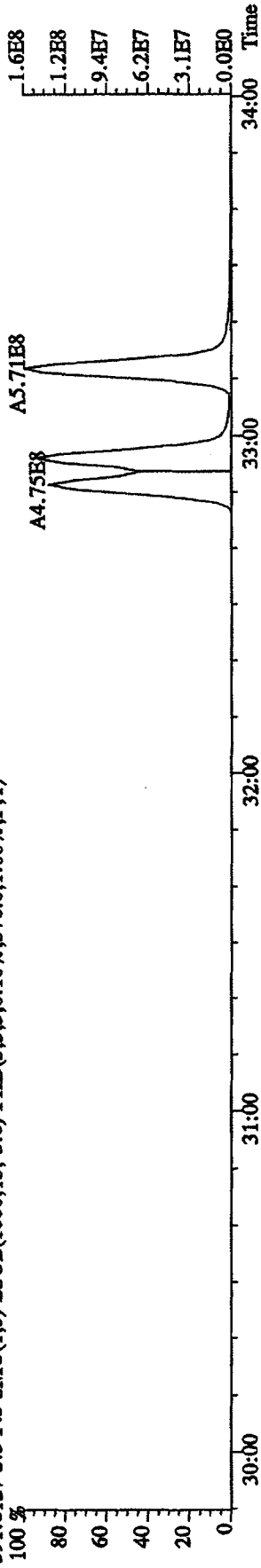
385.8610 S:5 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,608.0,1.00%,F,T)



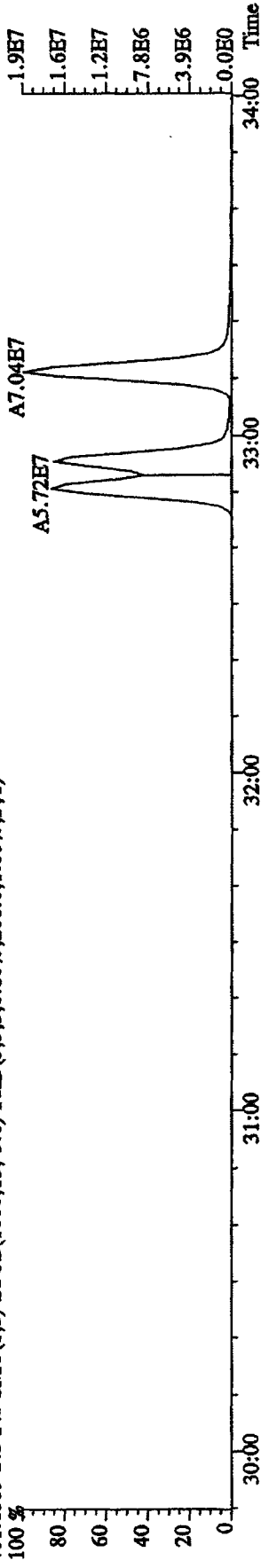
File:12AP104D5 #1-317 Acq:12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#5 Text:ST0412C :CS-5 09DXN456 Exp:DIOXINRES8290A  
 389.8157 S:5 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,208.0,1.00%,F,T)



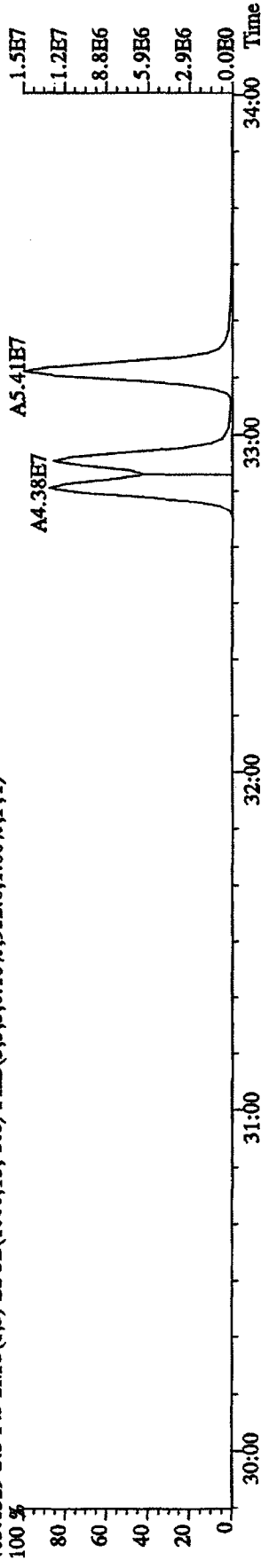
391.8127 S:5 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,376.0,1.00%,F,T)



401.8559 S:5 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,288.0,1.00%,F,T)

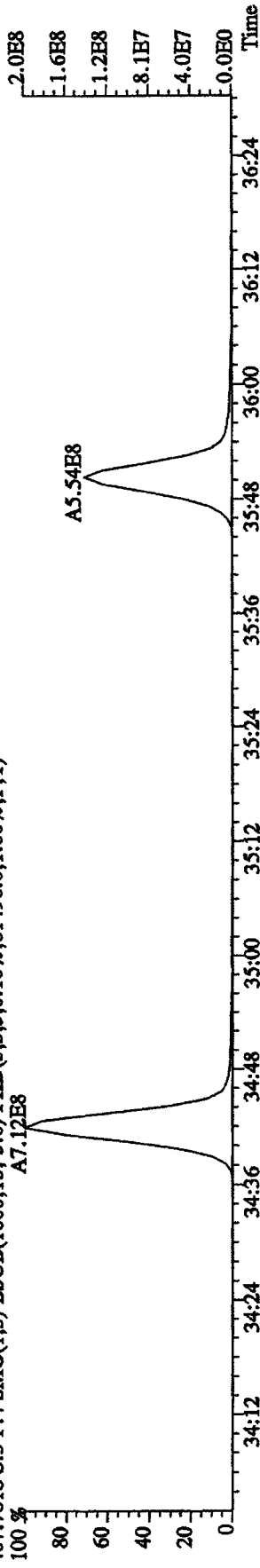


403.8529 S:5 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,952.0,1.00%,F,T)

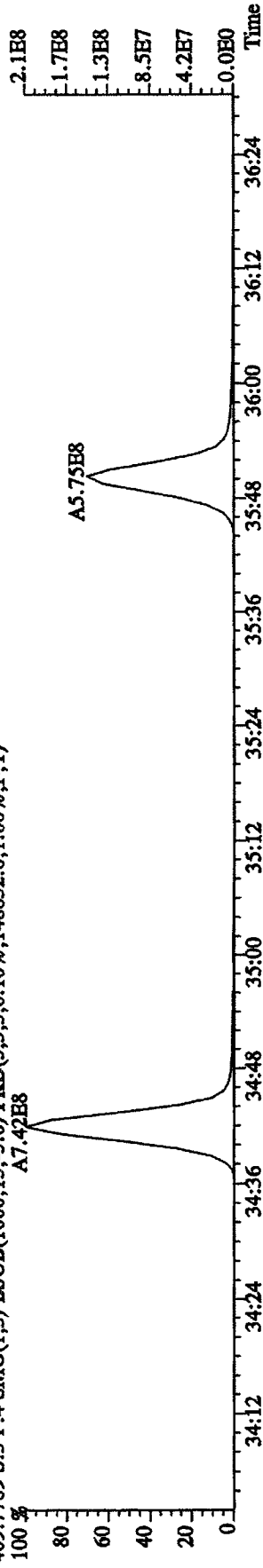


File: I2AP104ID5 #1-198 Acq: 12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-UltimaE

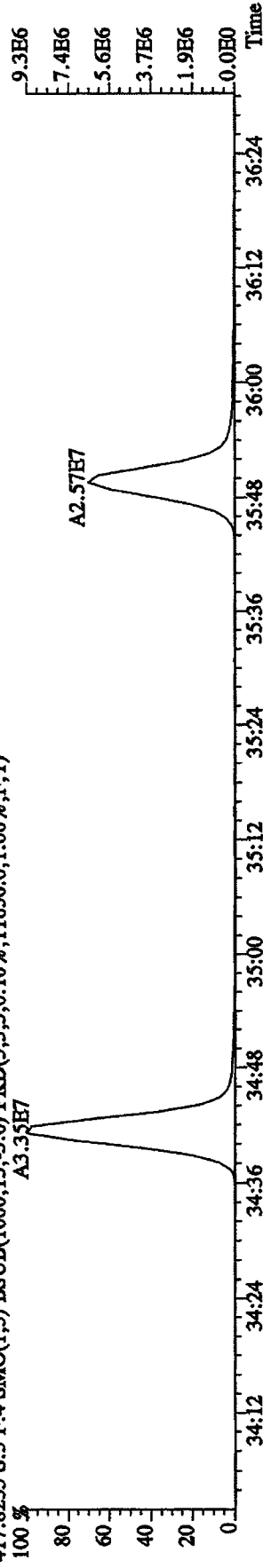
Sample#5 Text: ST0412C :CS-5 09DXN456 Exp: DIOXINRES8290A  
407.7818 S:5 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1.48832,0.1,0.00%,F,T)



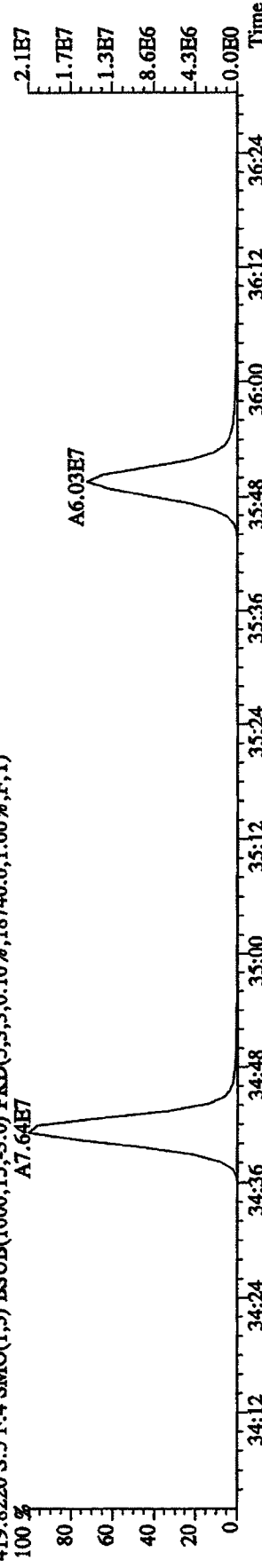
409.7789 S:5 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1.48832,0.1,0.00%,F,T)



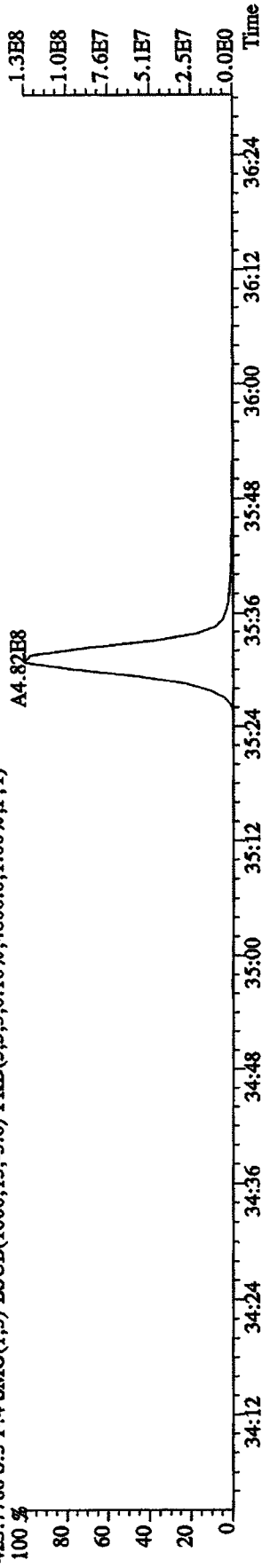
417.8253 S:5 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1.1656,0.1,0.00%,F,T)



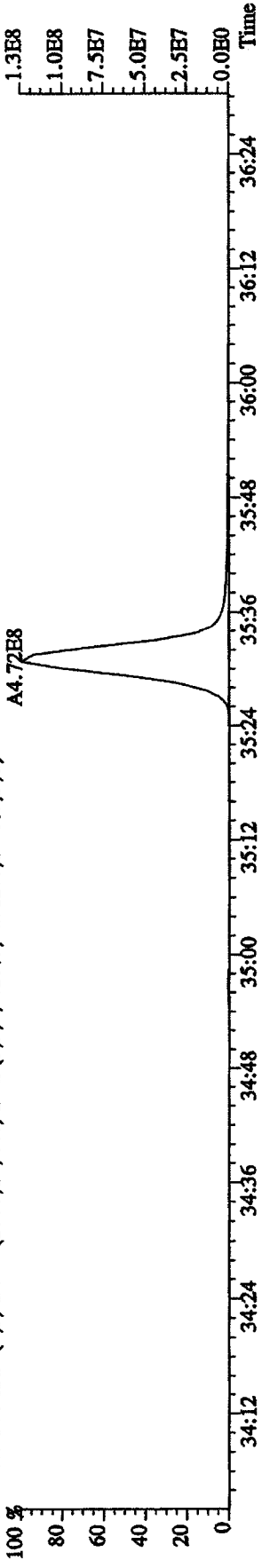
419.8220 S:5 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1.8740,0.1,0.00%,F,T)



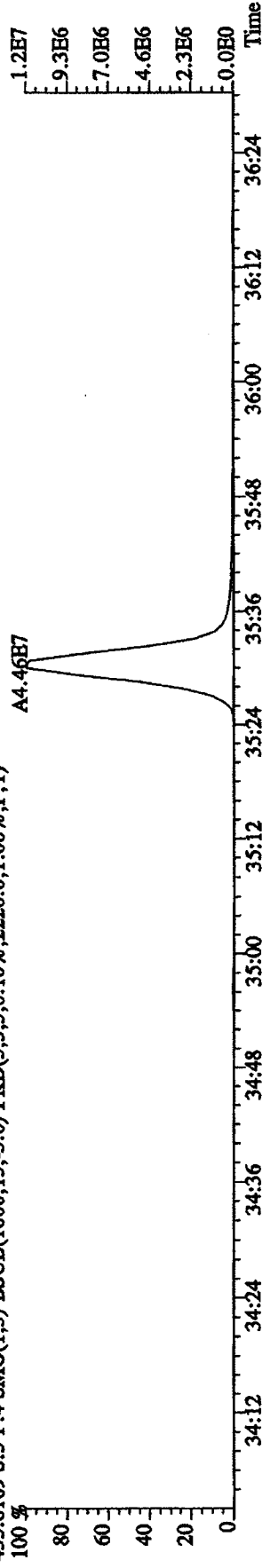
File:12AP104D5 #1-198 Acq:12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 Text:ST0412C :CS-5 09DXN456 Exp:DIOXINRES8290A  
 423.7766 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4800.0,1.00%,F,T)



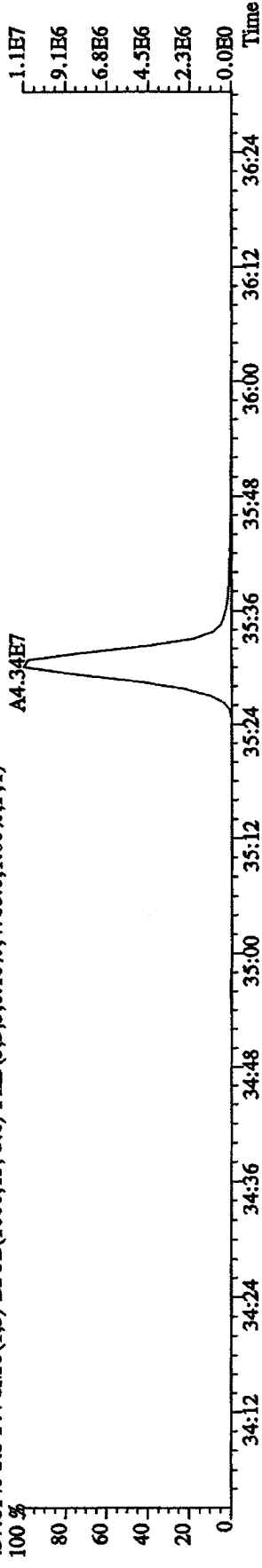
425.7737 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5172.0,1.00%,F,T)



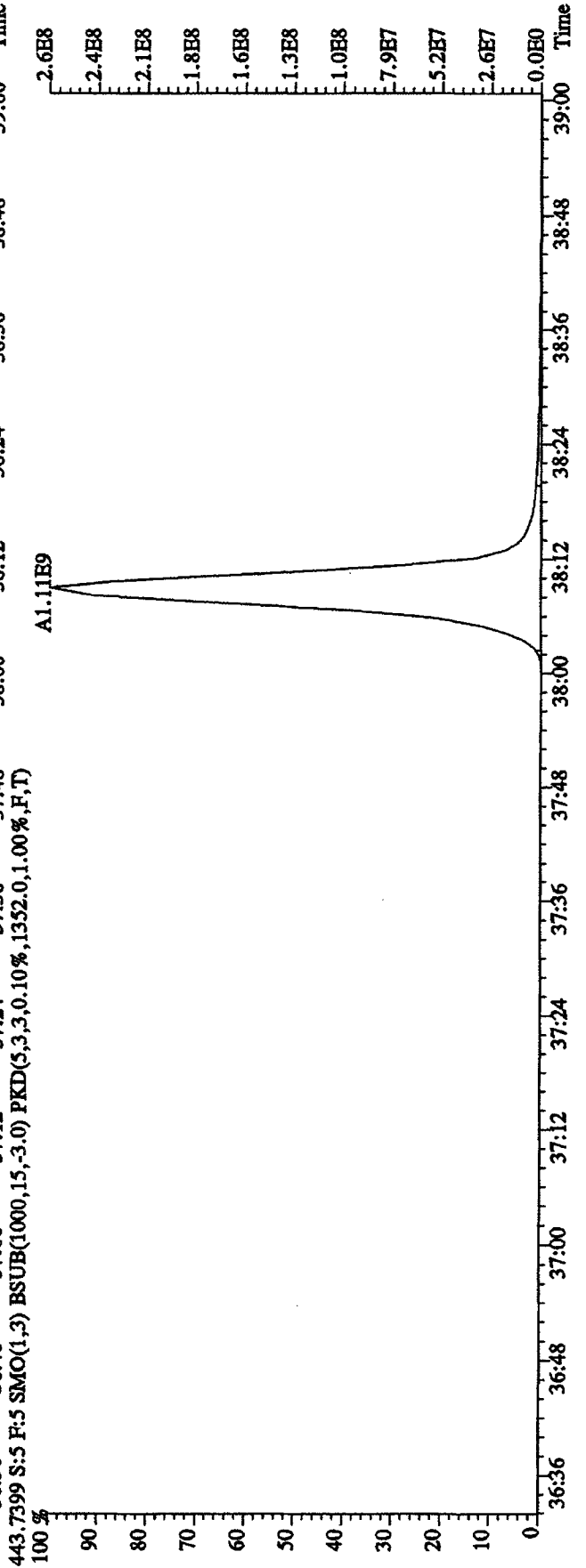
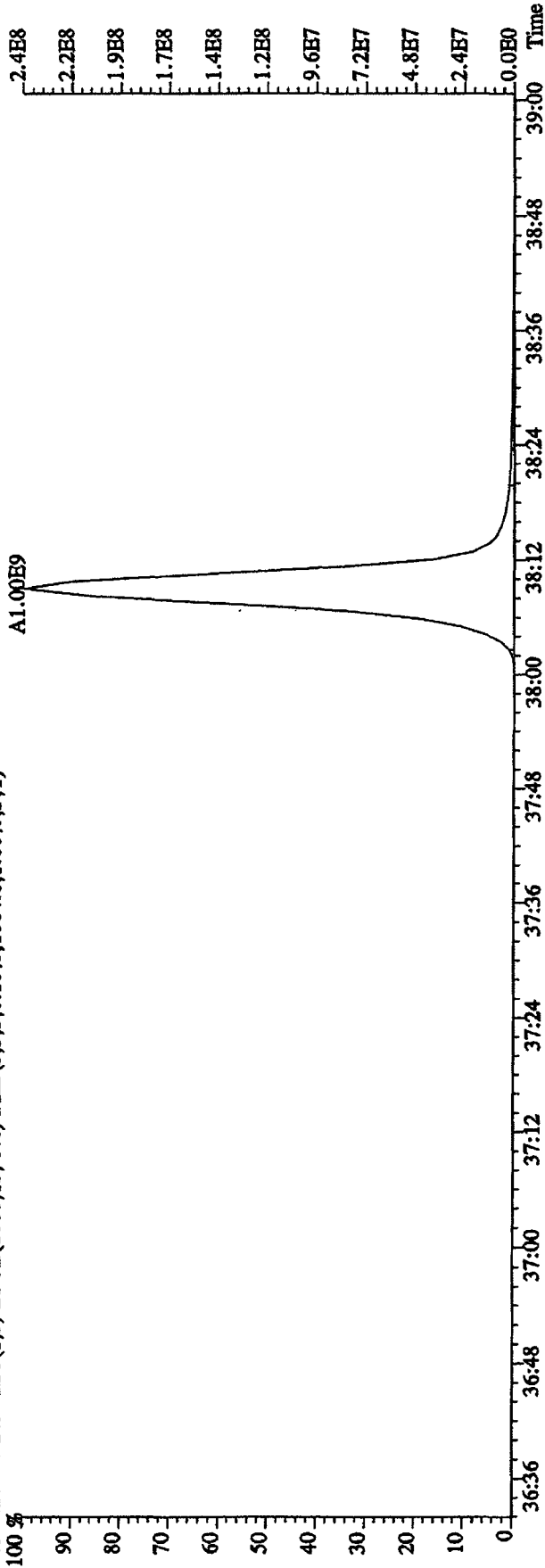
435.8169 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2220.0,1.00%,F,T)



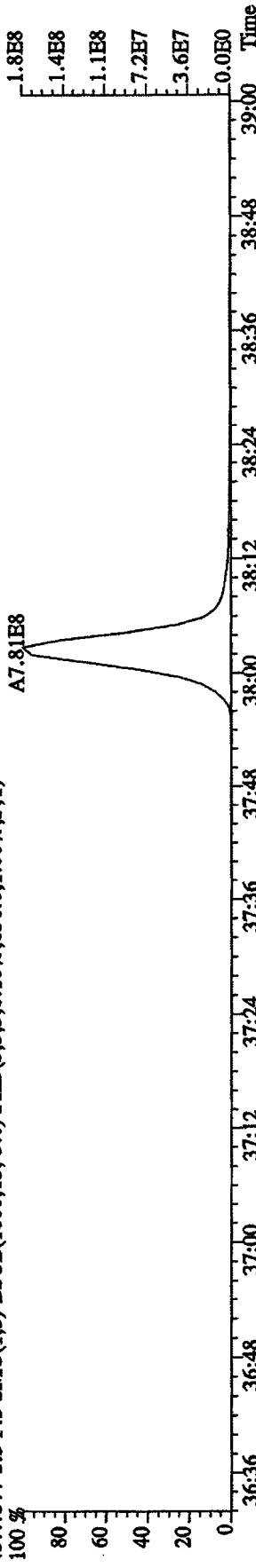
437.8140 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4768.0,1.00%,F,T)



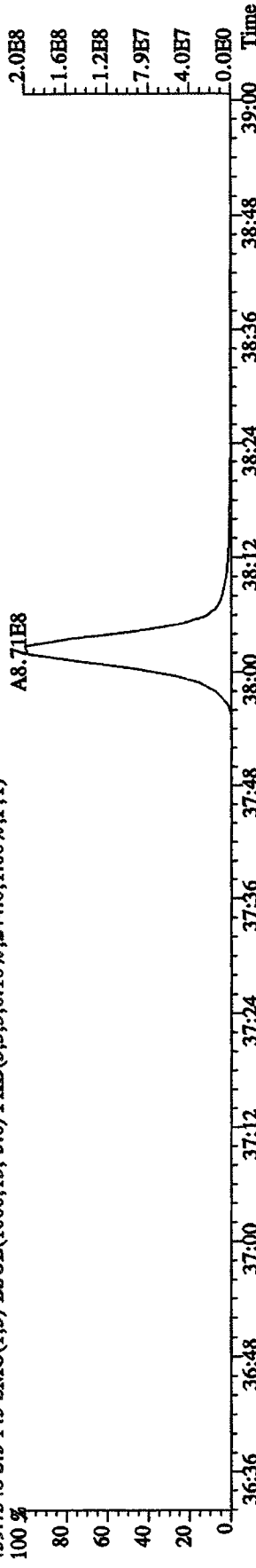
File: 12AP104D5 #1-191 Acq: 12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#5 Text: ST0412C :CS-5 09DXN456 Exp: DIOXINRES290A  
 441.7428 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1064.0,1.00%,F,T)



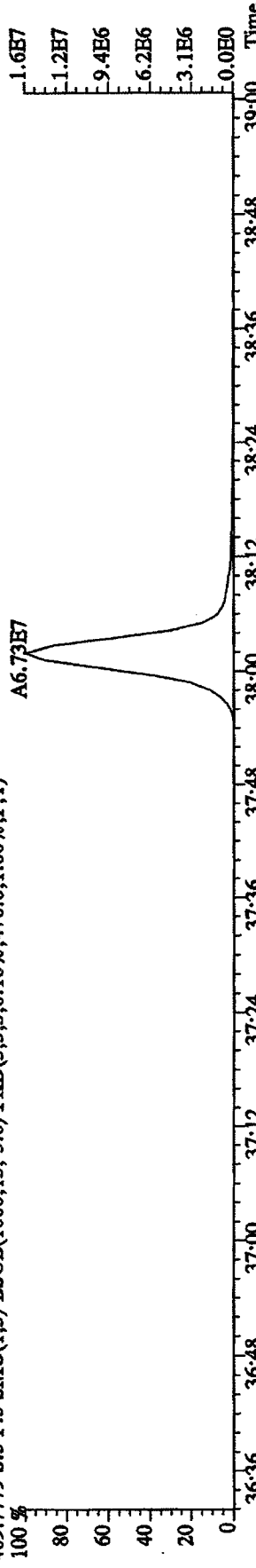
File:12AP104D5 #1-191 Acq:12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 Text:ST0412C :CS-5 09DXN456 Exp:DIOXINRES8290A  
 457.7377 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,836.0,1.00%,F,T)



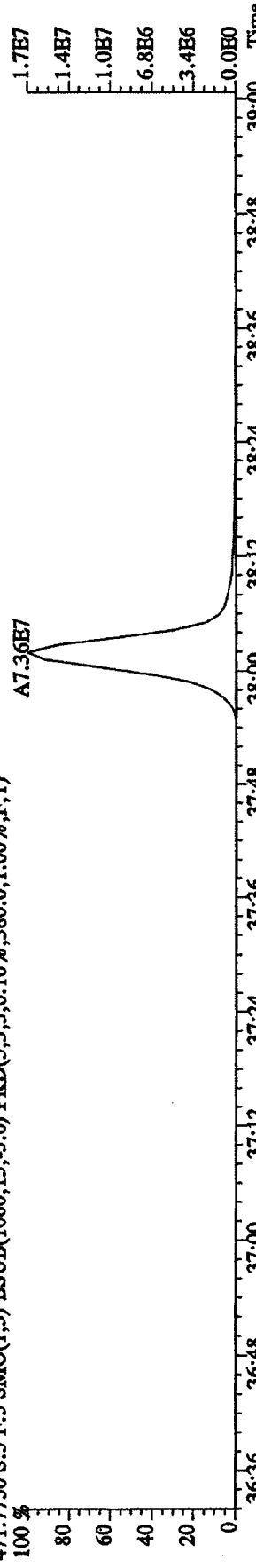
459.7348 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,244.0,1.00%,F,T)



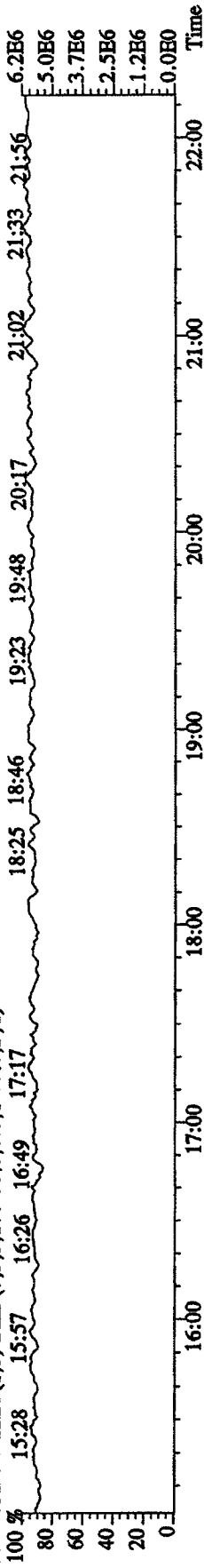
469.7779 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,476.0,1.00%,F,T)



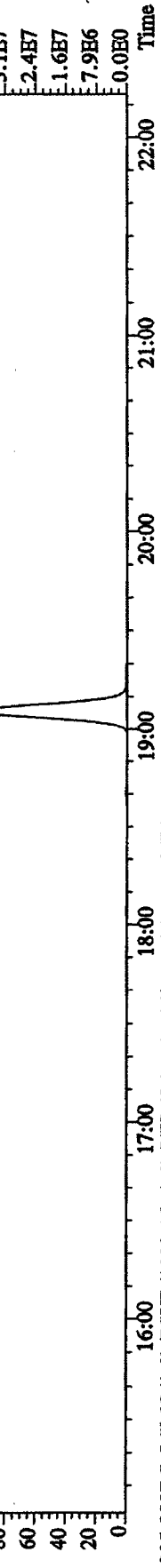
471.7750 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,380.0,1.00%,F,T)



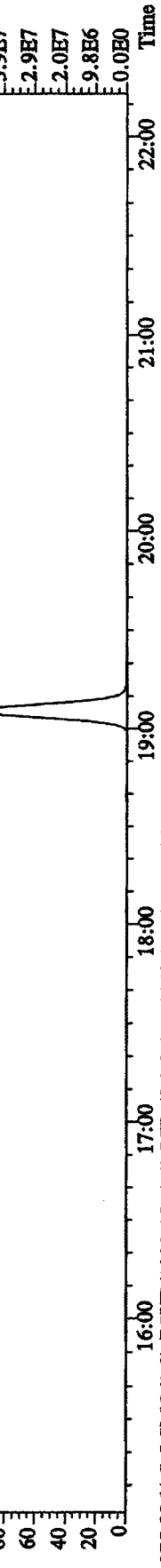
File:12AP104D5 #1-435 Acq:12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 Text:ST0412C :CS-5 09DXN456 Exp:DIOXINRES8290A  
 354.9792 S:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



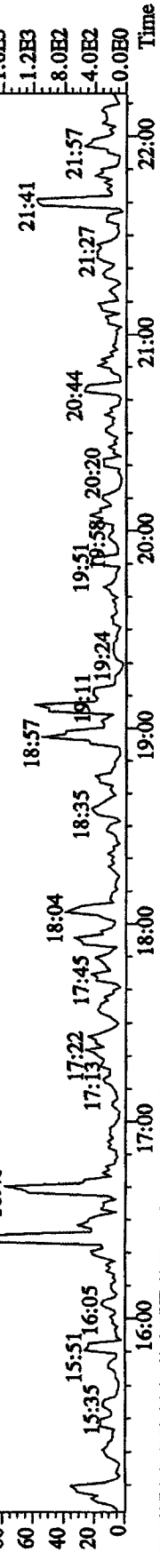
303.9016 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2960.0,1.00%,F,T)



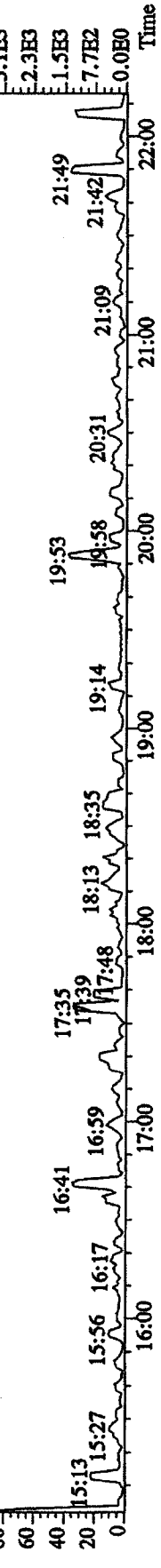
305.8987 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2296.0,1.00%,F,T)



375.8364 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,188.0,1.00%,F,T)



409.7974 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,188.0,1.00%,F,T)

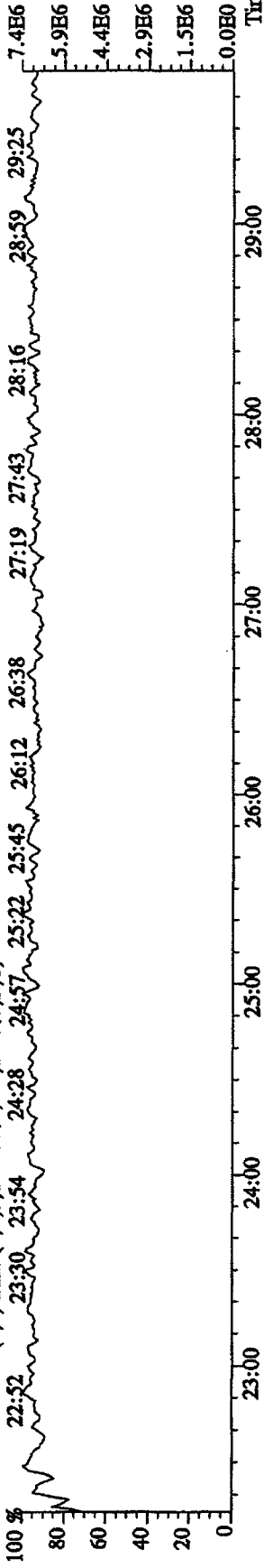


File: 12AP104D5 #1-604 Acq: 12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-UltimaE

Sample#5 Text: ST0412C :CS-5 09DXN456 Exp: DIOXINRES8290A

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

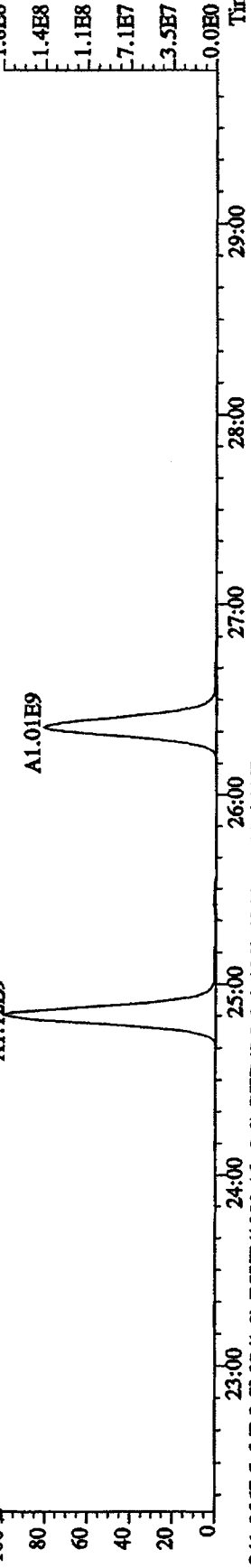
100% 22:52 23:30 23:54 24:28 24:57 25:22 25:45 26:12 26:38 27:19 27:43 28:16 28:59 29:25



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)

100% 23:00 24:00 25:00 26:00

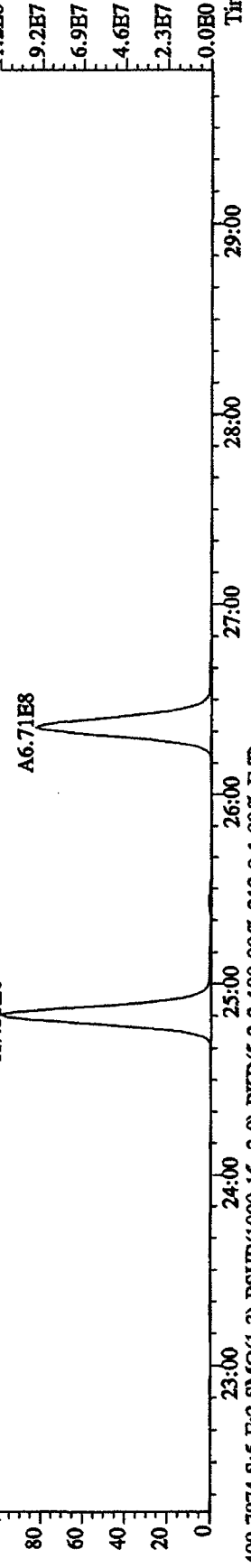
A1.12E9



341.8567 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4044.0,1.00%,F,T)

100% 23:00 24:00 25:00 26:00

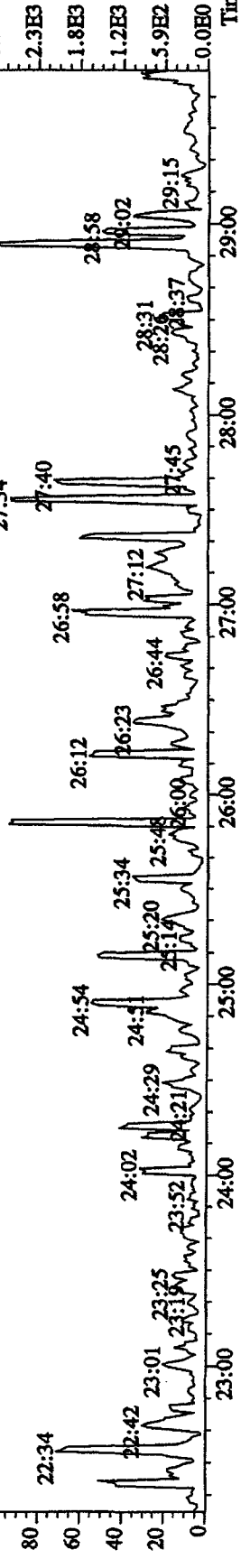
A7.35E8



409.7974 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,312.0,1.00%,F,T)

100% 23:00 24:00 25:00 26:00

A7.35E8



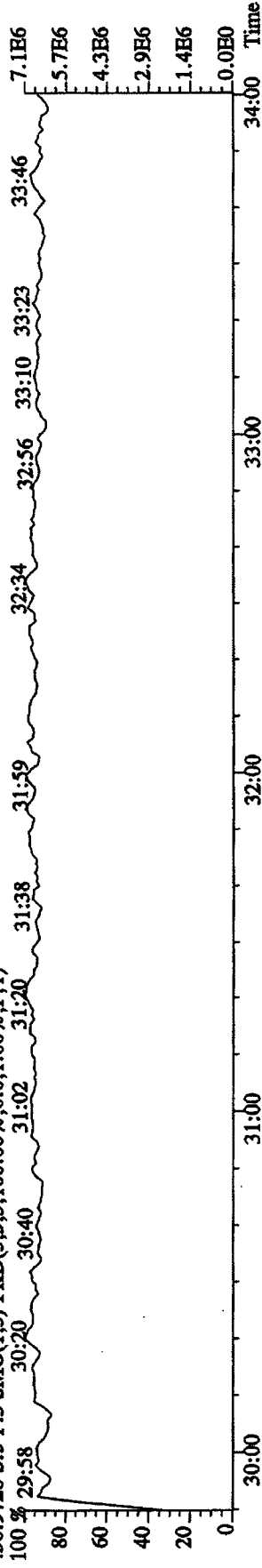


File:12API04D5 #1-317 Acq:12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-UltimaE

Sample#5 Text:ST0412C :CS-5 09DXN456 Exp:D\OXINRES8290A

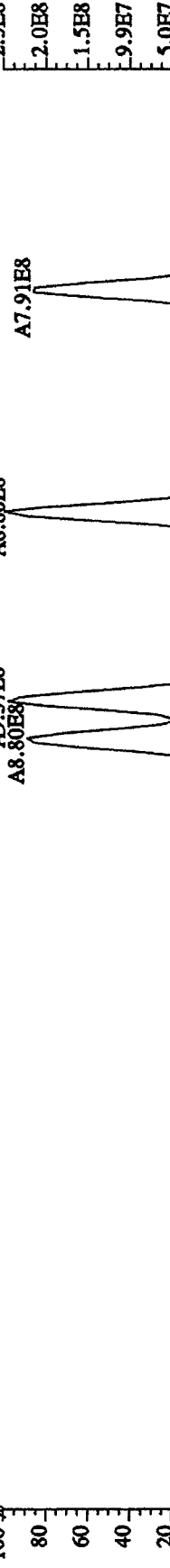
430.9728 S:5 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 % 29:58 30:20 30:40 31:02 31:20 31:38 31:59 32:34 32:56 33:10 33:23 33:46



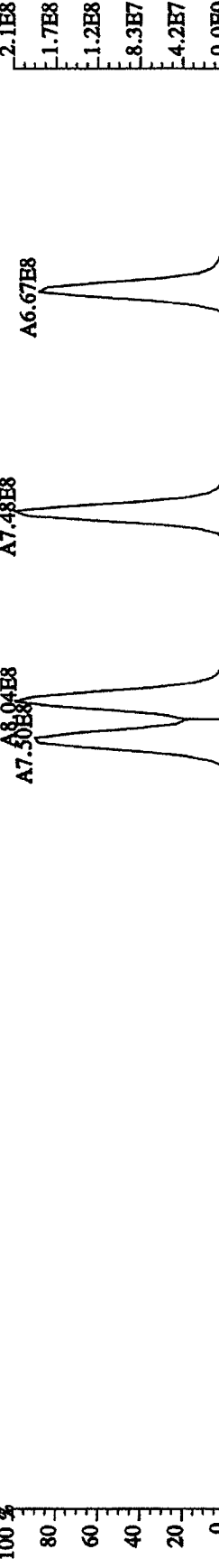
373.8208 S:5 F:3 SMO(1,3) ESUB(1000,15,-3.0) PKD(5,3,3,0.10%,3020.0,1.00%,F,T)

100 %



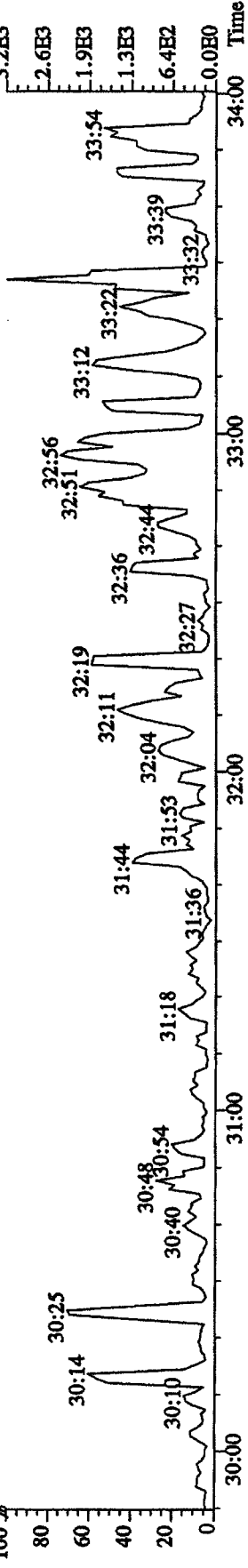
375.8178 S:5 F:3 SMO(1,3) ESUB(1000,15,-3.0) PKD(5,3,3,0.10%,2044.0,1.00%,F,T)

100 %



445.7555 S:5 F:3 SMO(1,3) ESUB(1000,15,-3.0) PKD(5,3,3,100.00%,296.0,1.00%,F,T)

100 %

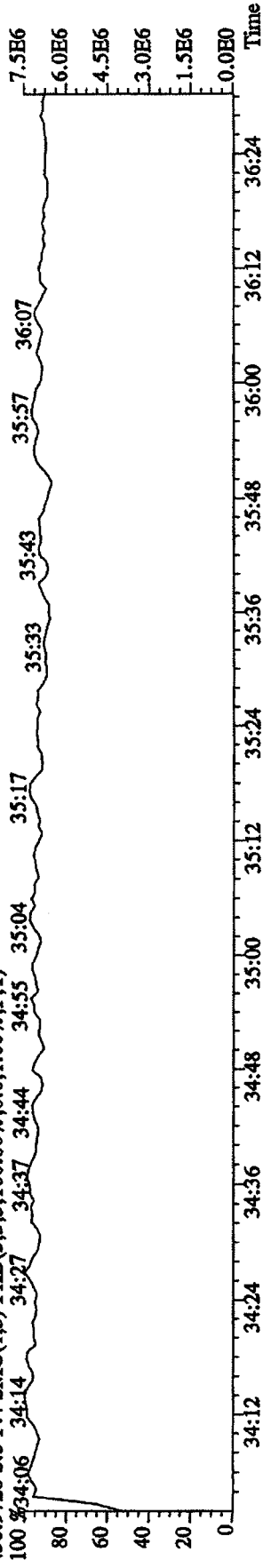


File:12API04D5 #1-198 Acq:12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-UltimaE

Sample#5 Text:ST0412C :CS-5 09DXN456 Exp:DIOXINRES8290A

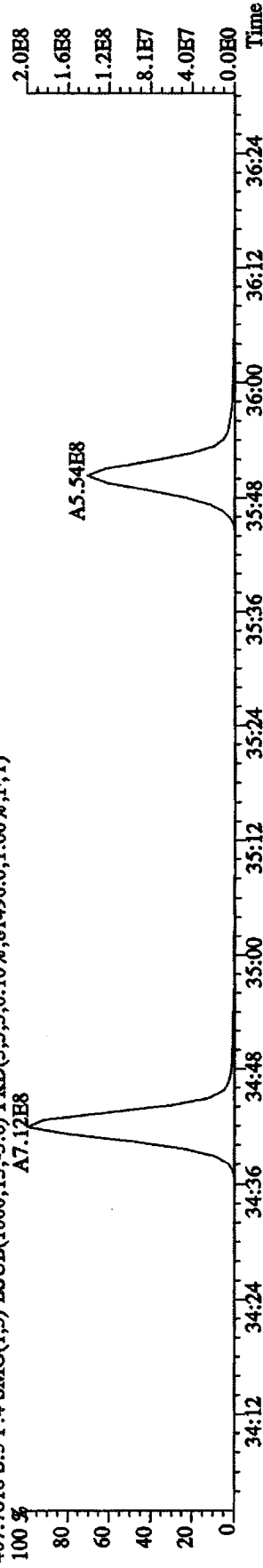
430.9728 S:5 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

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



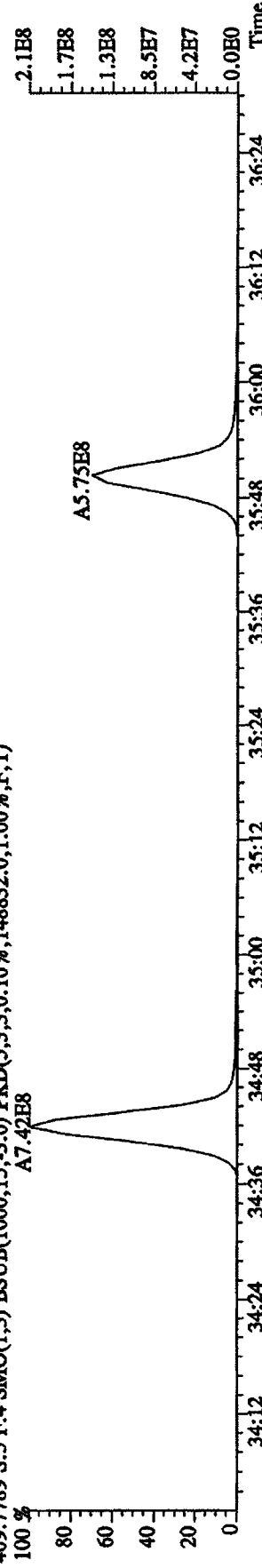
407.7818 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,81496.0,1.00%,F,T)

A7.12E8

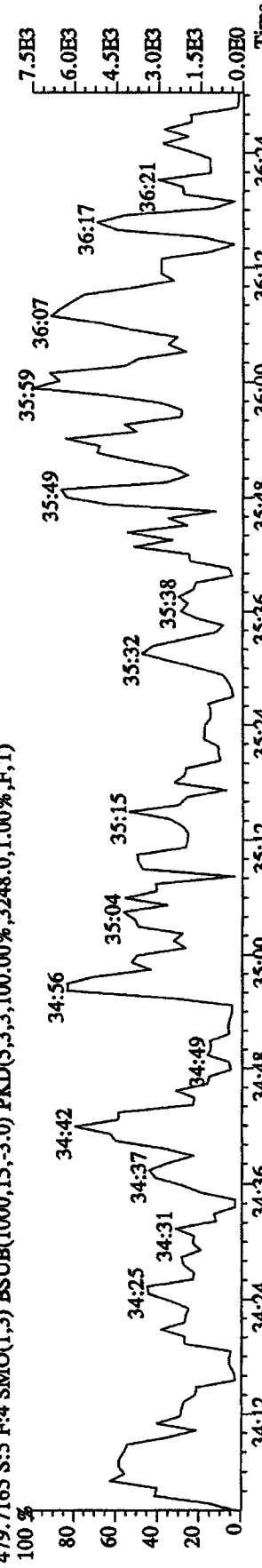


409.7789 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,148832.0,1.00%,F,T)

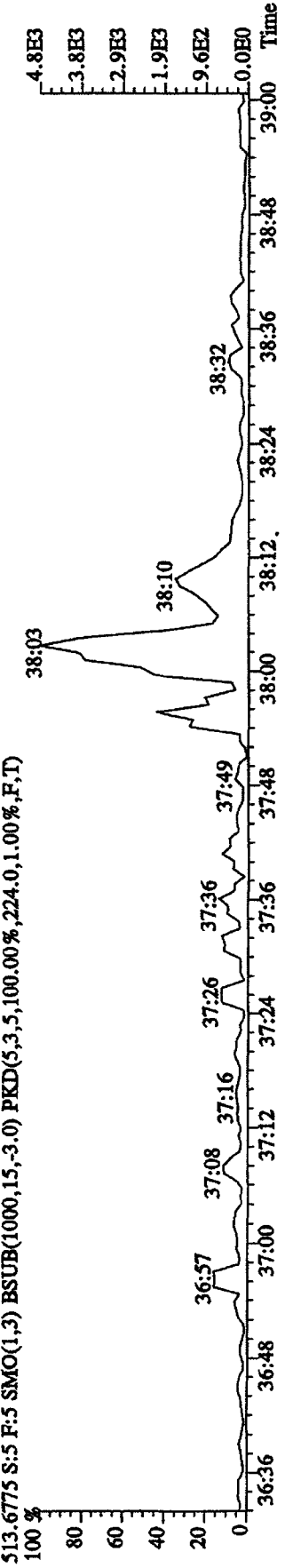
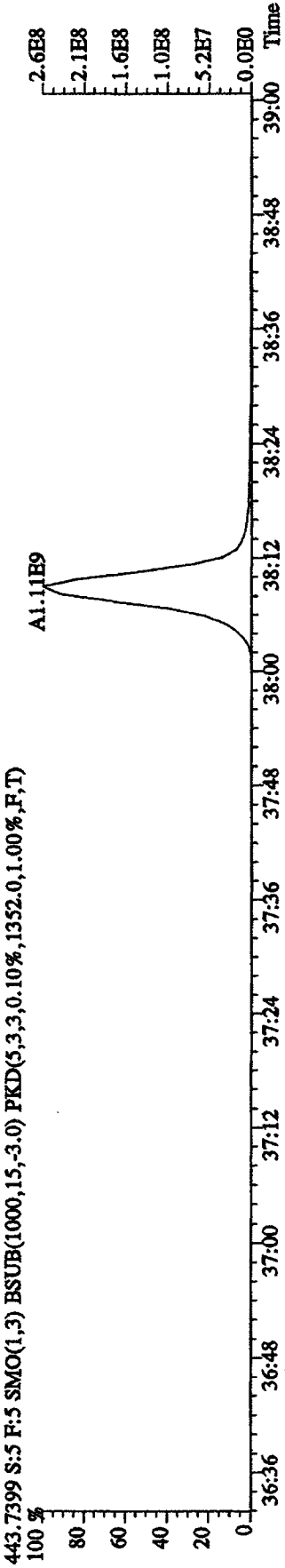
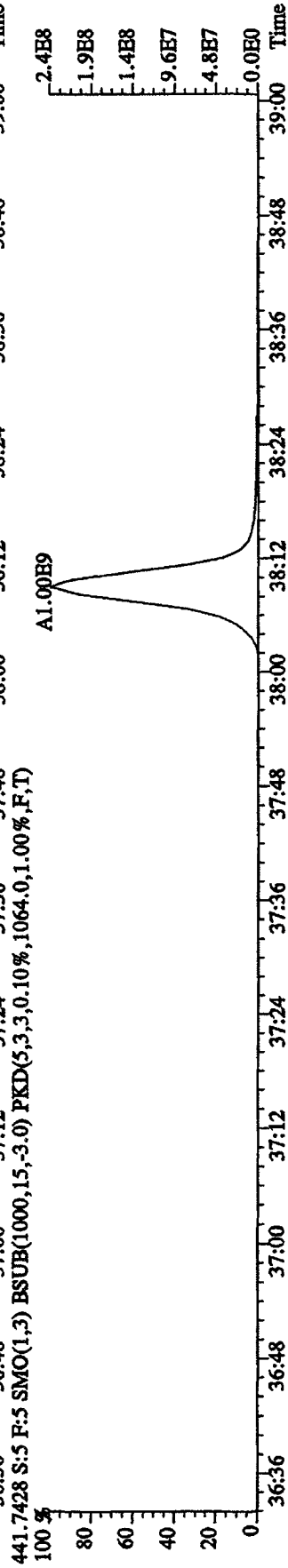
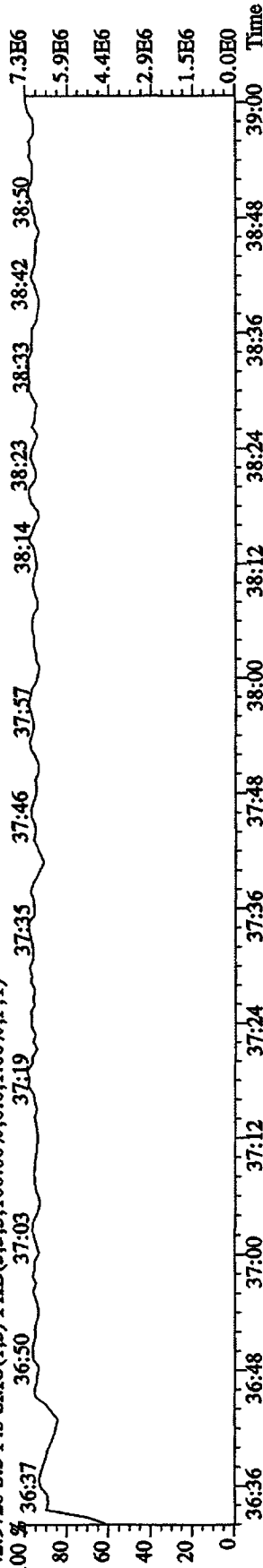
A7.42E8



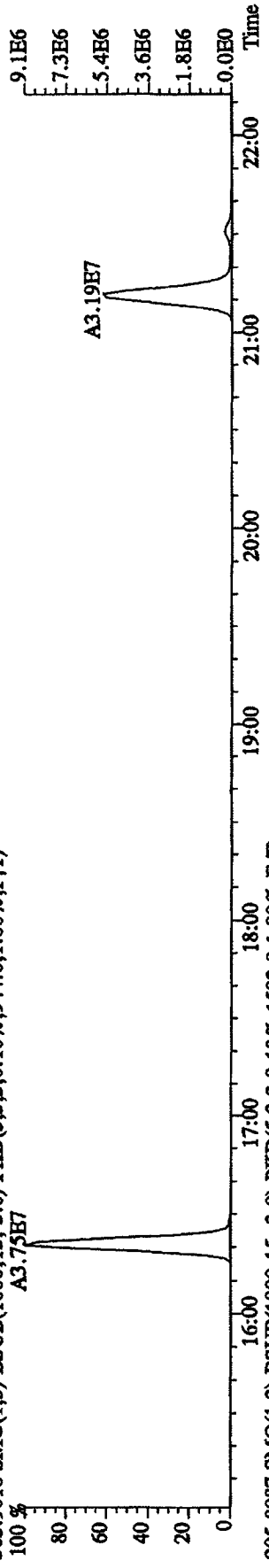
479.7165 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,3248.0,1.00%,F,T)



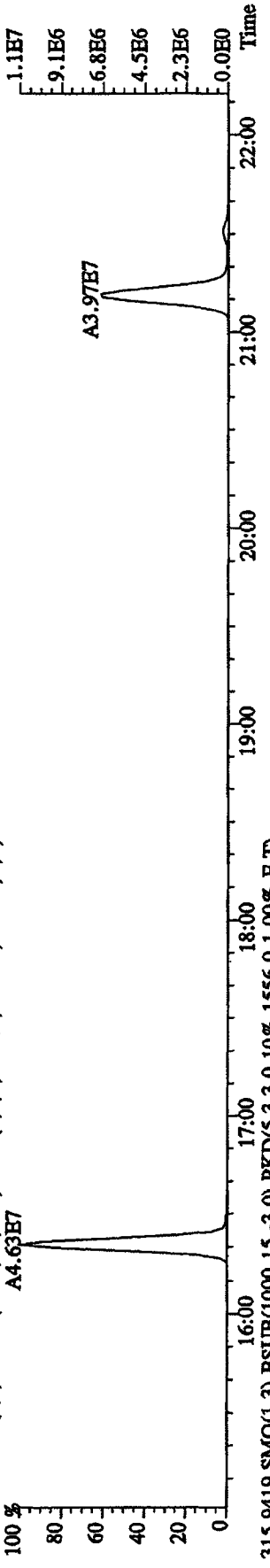
File: 12AP104D5 #1-191 Acq: 12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 Text: ST0412C : CS-5 09DXN456 Exp: DIOXINRES8290A  
 442.9728 S:5 F:5 SMO(1,3) PKD(5,3,3,0.0,1.00%,F,T)



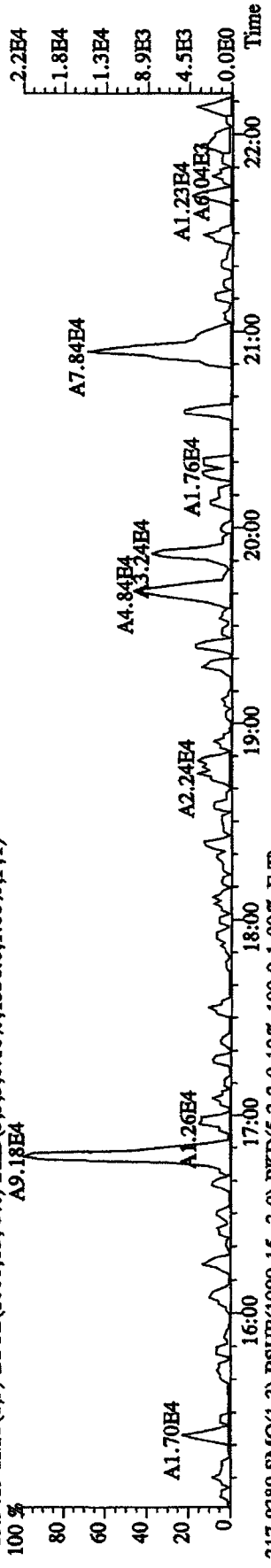
File:12AP104D5 #1-435 Acq:12-APR-2010 08:30:15 GC HI+ Voltage SIR Autospec-UltimaB  
 Sample#1 Text:CP0412 :DB-5 CFSM 3732-04 Exp:DIOXINRES8290A  
 303.9016 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,944.0,1.00%,F,T)  
 100 % A3.75E7



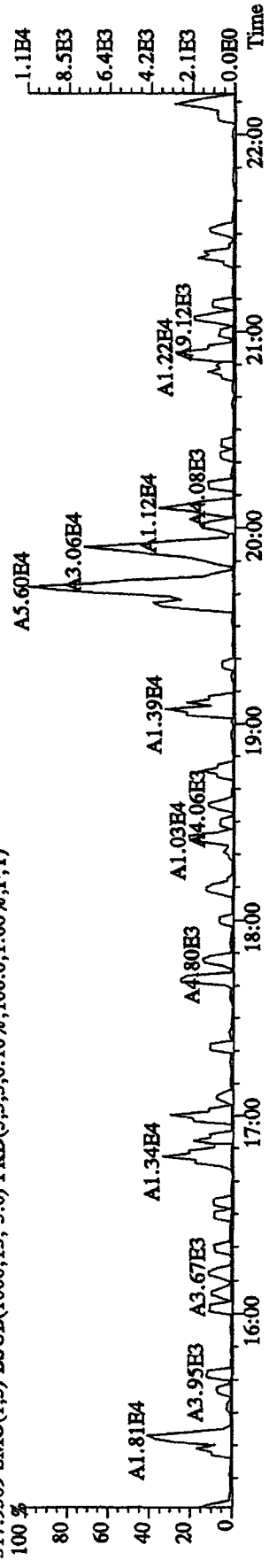
305.8987 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1592.0,1.00%,F,T)  
 100 % A4.63E7



315.9419 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1556.0,1.00%,F,T)  
 100 % A9.18E4



317.9389 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,100.0,1.00%,F,T)  
 100 %

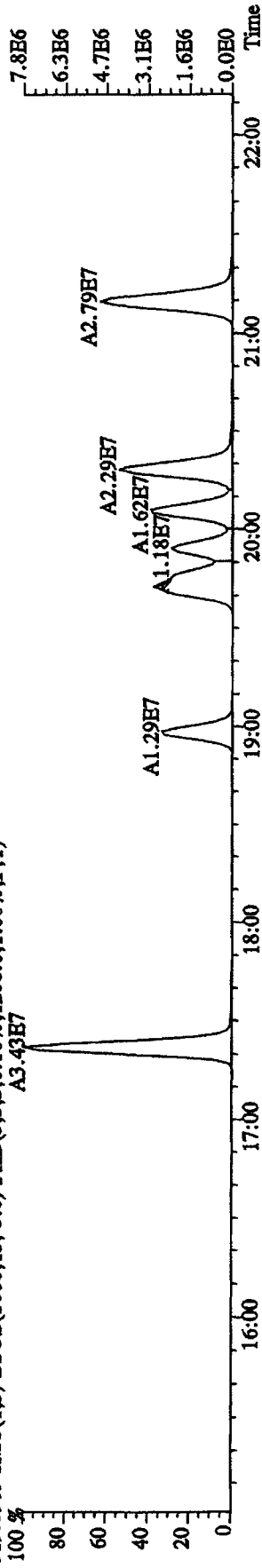


File: I2AP104D5 #1-435 Acq: 12-APR-2010 08:30:15 GC EI+ Voltage SIR Autospec-UltimaE

Sample#1 Text: CP0412 :DB-5 CFSM 3752-04 Exp: DIOXINRES290A

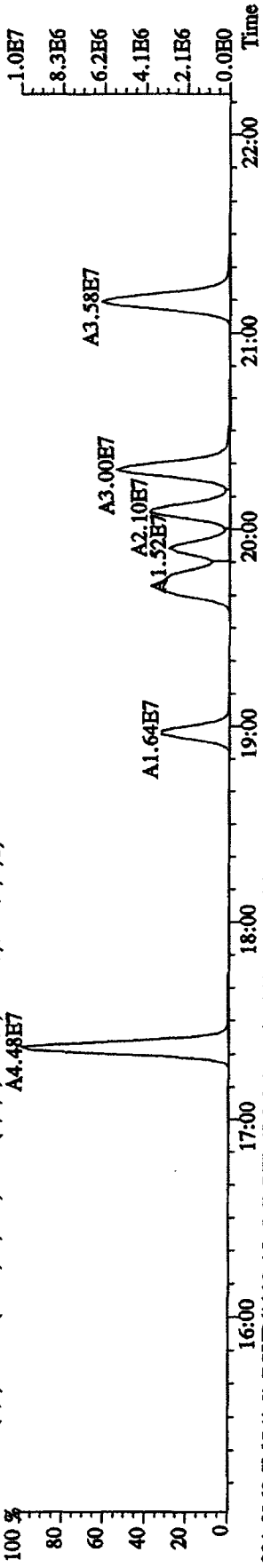
319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,1.0%,1208.0,1.00%,F,T)

A3.43E7



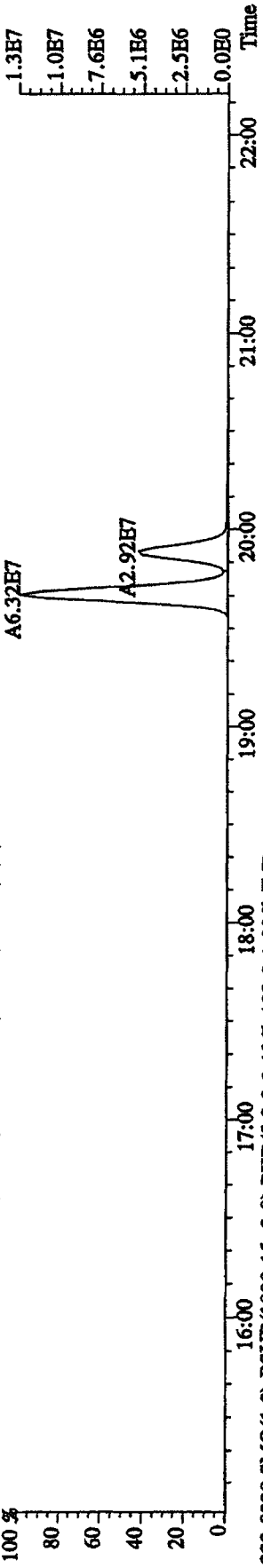
321.8936 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,1.0%,3924.0,1.00%,F,T)

A4.48E7



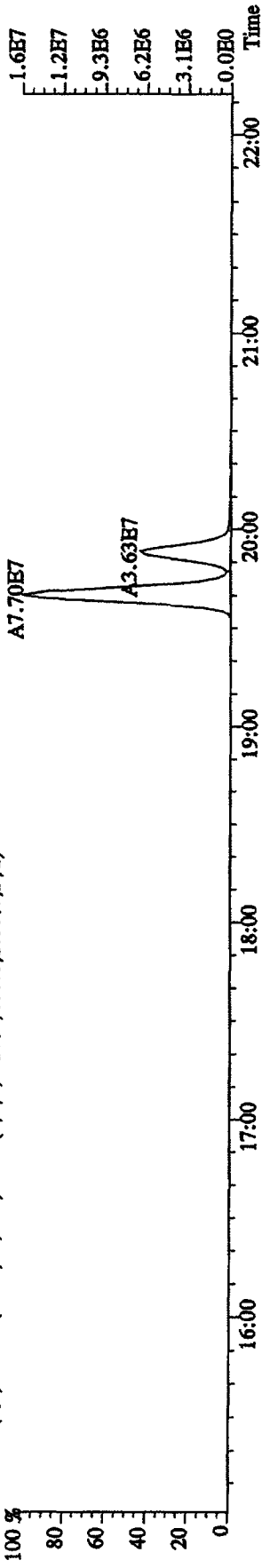
331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,1.0%,3940.0,1.00%,F,T)

A6.32E7

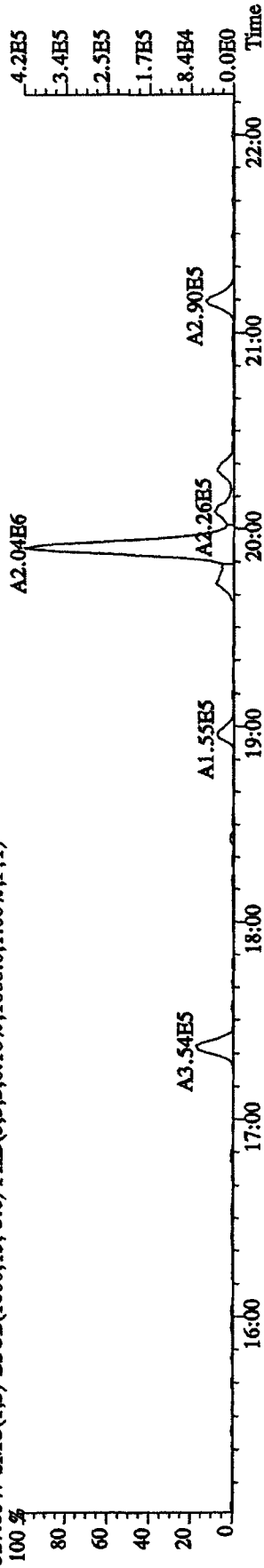


333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,1.0%,188.0,1.00%,F,T)

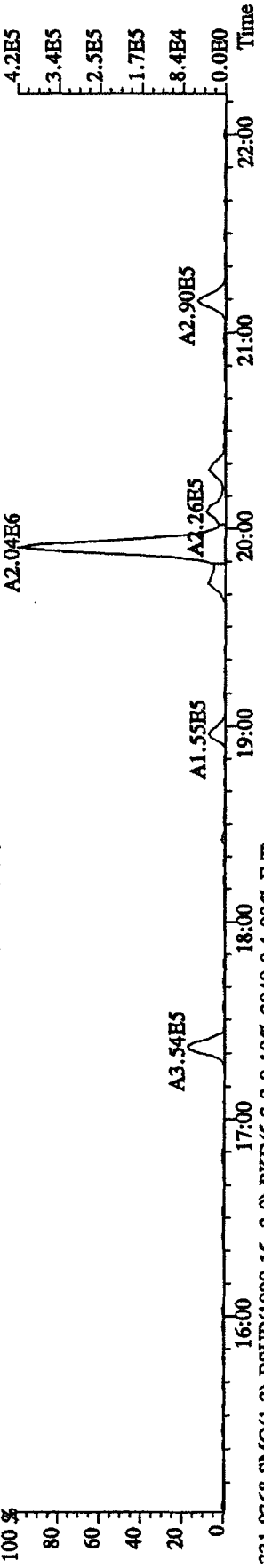
A7.70E7



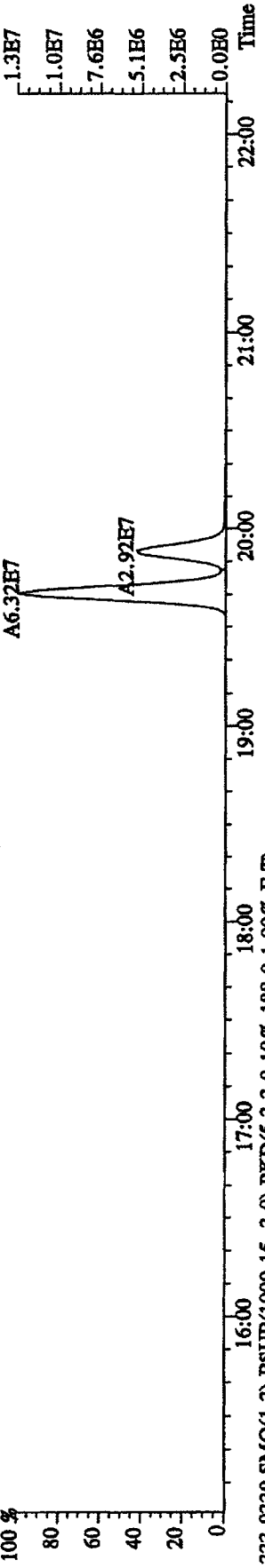
File:12AP104D5 #1-435 Acq:12-APR-2010 08:30:15 GC HI+ Voltage SIR Autospec-UltimaB  
 Sample#1 Text:CP0412 :DB-5 CFSM 3732-04 Exp:DIOXINRES290A  
 327.8847 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1668.0,1.00%,F,T)



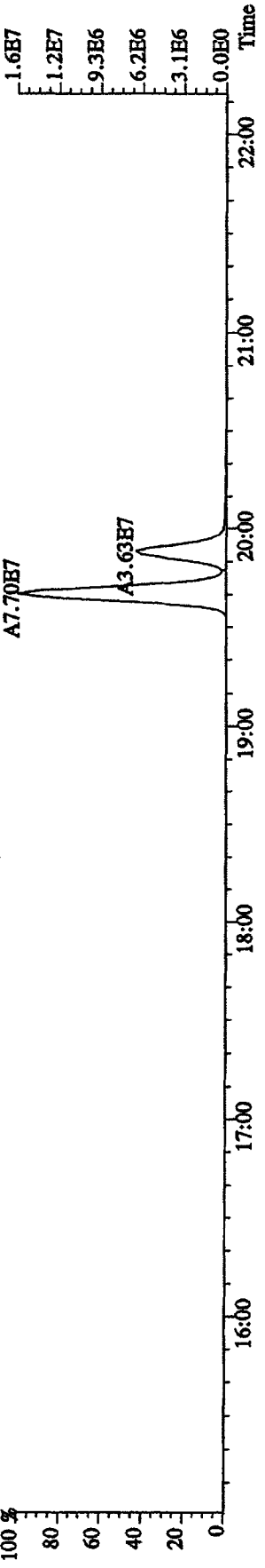
327.8847 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1668.0,1.00%,F,T)



331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3940.0,1.00%,F,T)

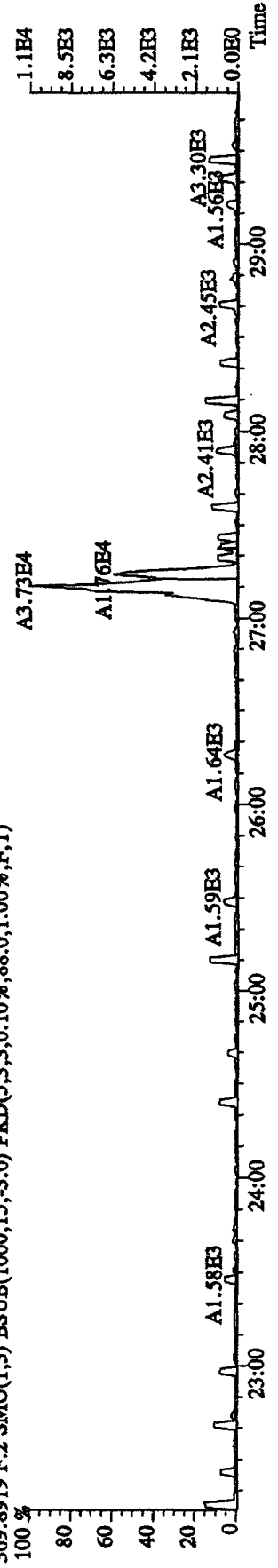
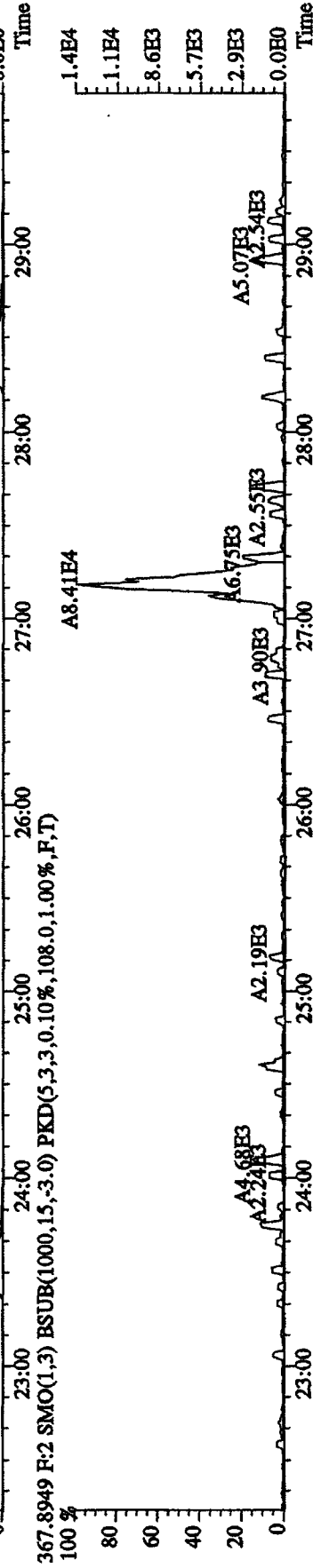
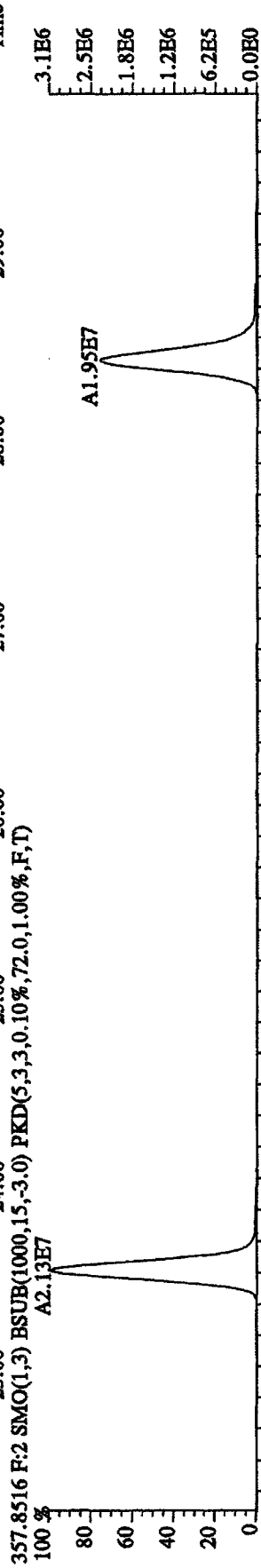
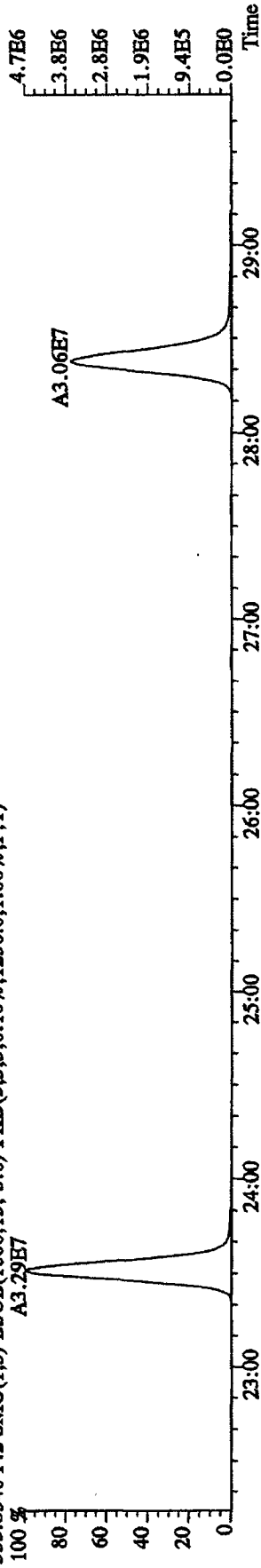


333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,188.0,1.00%,F,T)



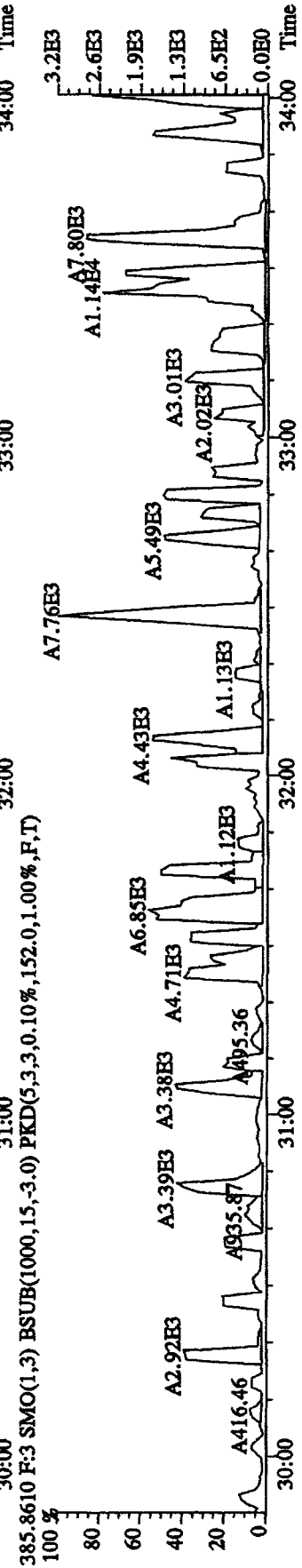
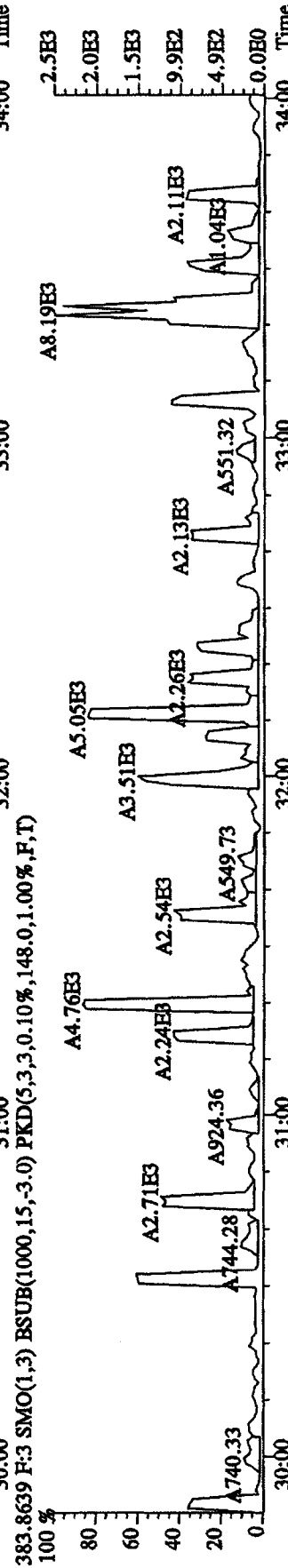
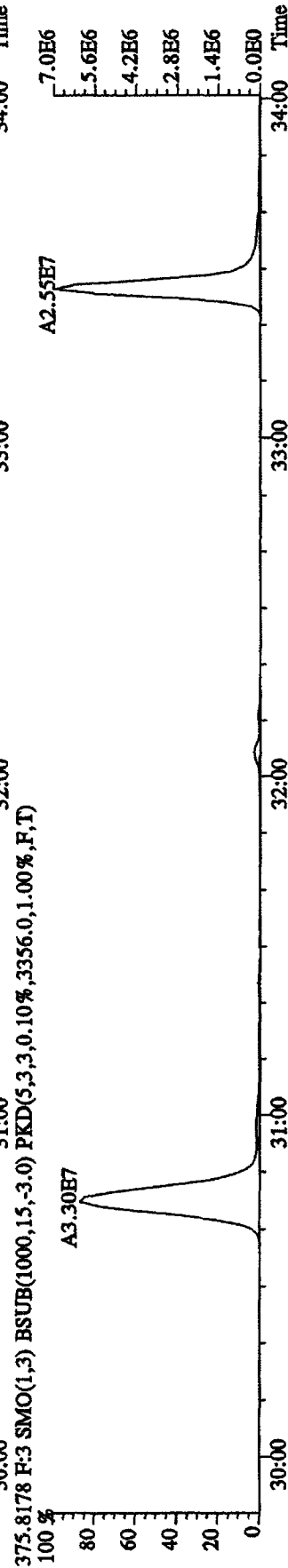
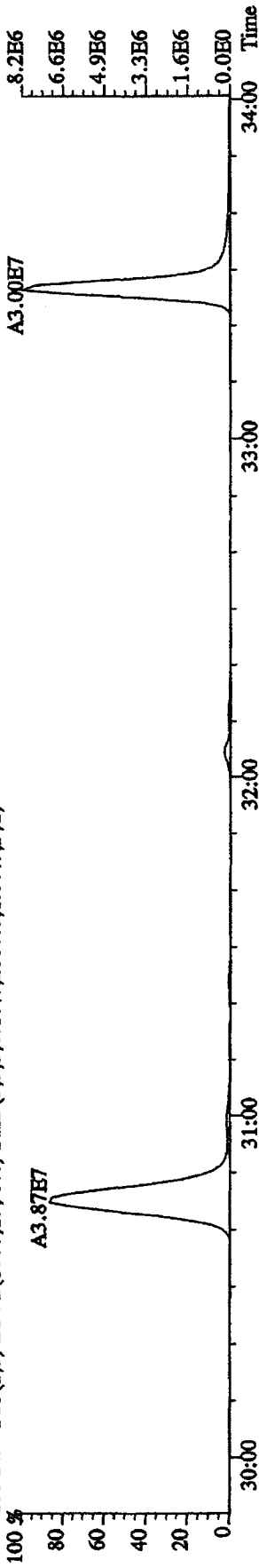


Files:12AP104D5 #1-605 Acq:12-APR-2010 08:30:15 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 Text:CP0412 :DB-5 CPSM 3732-04 Exp:DIOXINRES8290A  
 355.8546 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1256.0,1.00%,F,T)

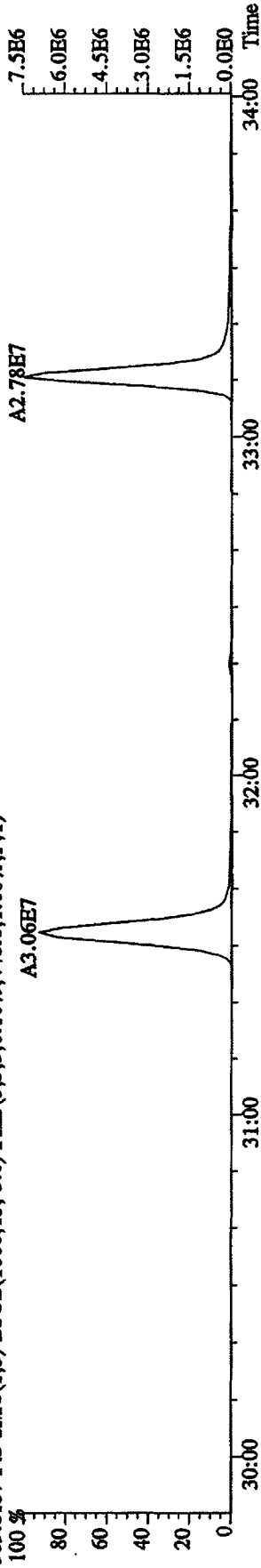




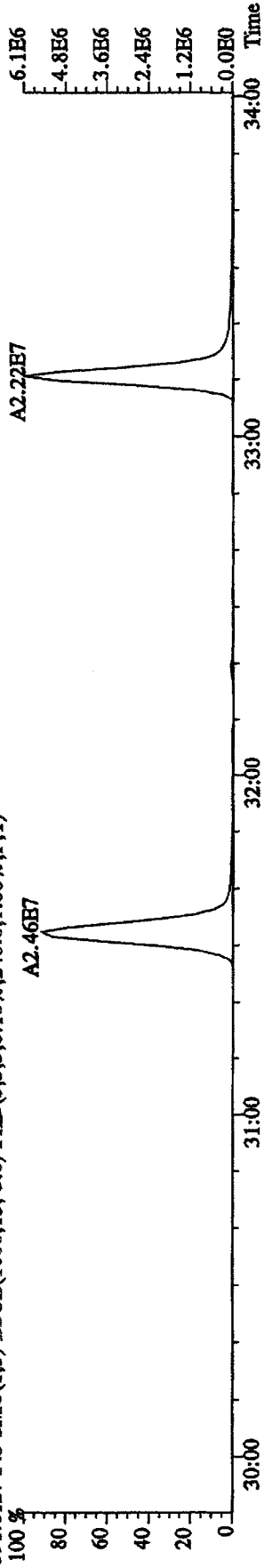
File:12AP104D5 #1-317 Acq:12-APR-2010 08:30:15 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 Text:CP0412 :DB-5 CFSM 3732-04 Exp:DIOXINRES8290A  
 373.8208 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2080.0,1.00%,F,T)



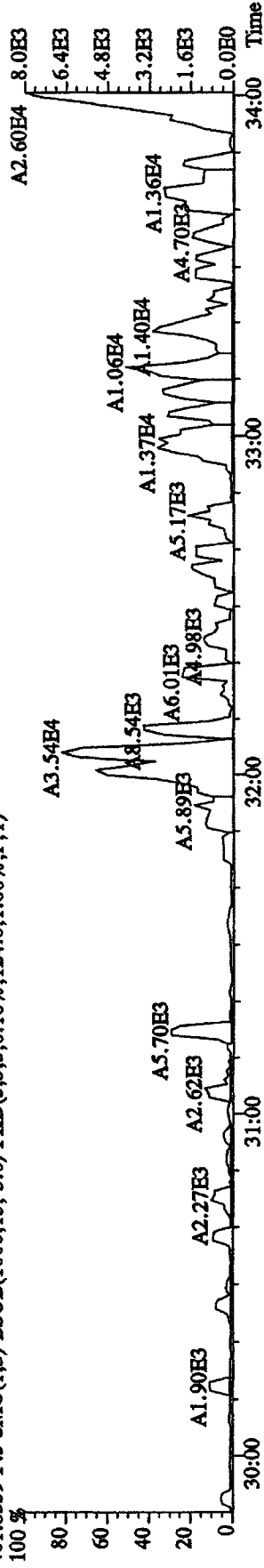
File:12AP104D5 #1-317 Acq:12-APR-2010 08:30:15 GC HI+ Voltage SIR Autospec-UltimaE  
 Sample#1 Text:CP0412 :DB-5 CFSM 3732-04 Exp:DIOXINRES8290A  
 389.8157 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,448.0,1.00%,F,T)



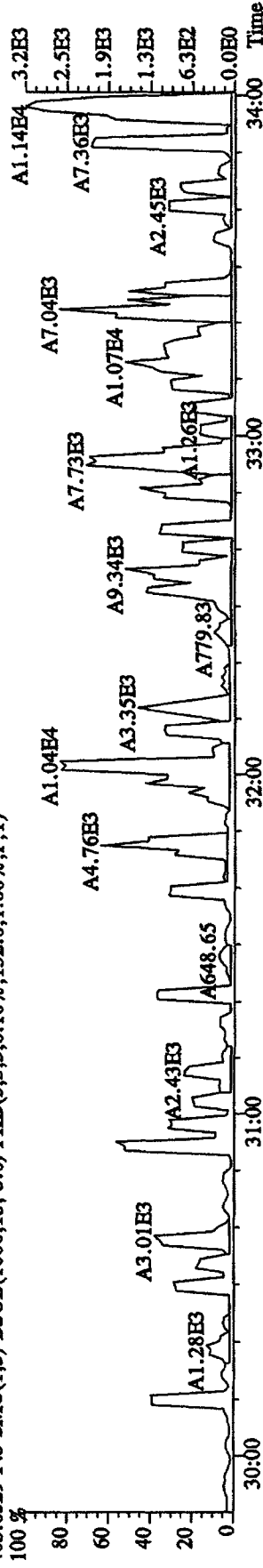
391.8127 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,248.0,1.00%,F,T)



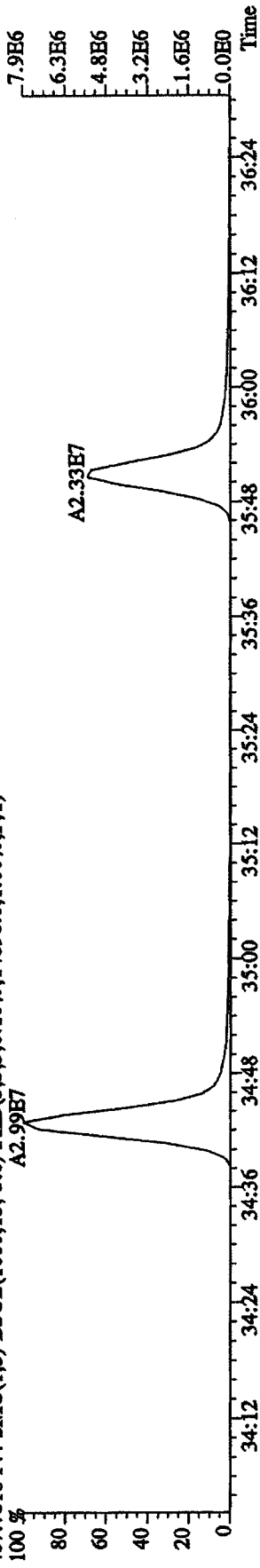
401.8559 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,124.0,1.00%,F,T)



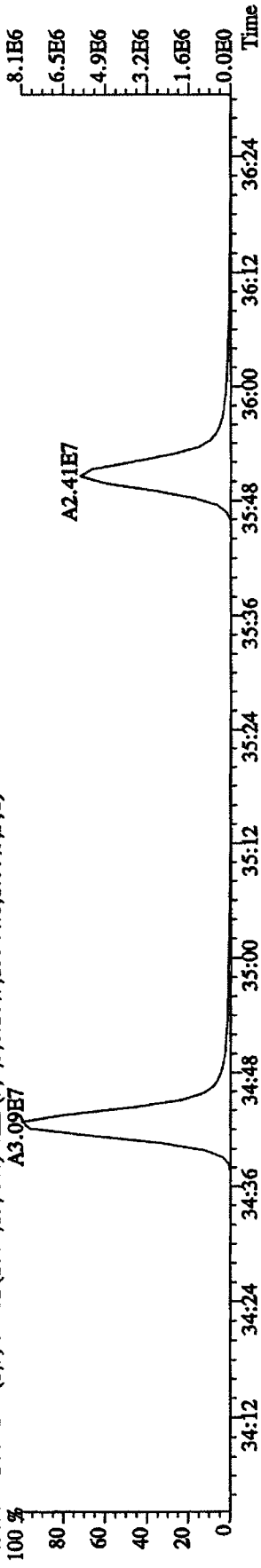
403.8529 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,132.0,1.00%,F,T)



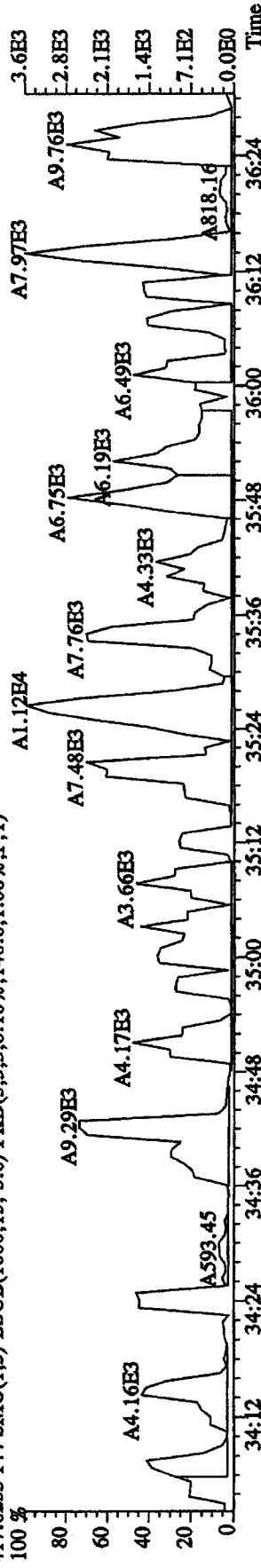
File:12AP104D5 #1-198 Acq:12-APR-2010 08:30:15 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#1 Text:CP0412 :DB-5 CFSM 3732-04 Exp:DIOXINRES8290A  
 407.7818 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14896.0,1.00%,F,T)  
 A2.99E7



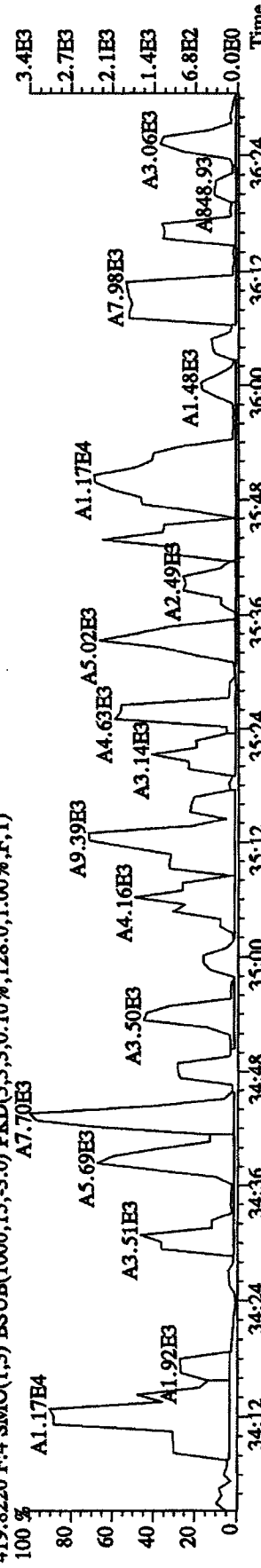
409.7789 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13544.0,1.00%,F,T)  
 A3.09E7



417.8253 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,140.0,1.00%,F,T)



419.8220 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,128.0,1.00%,F,T)

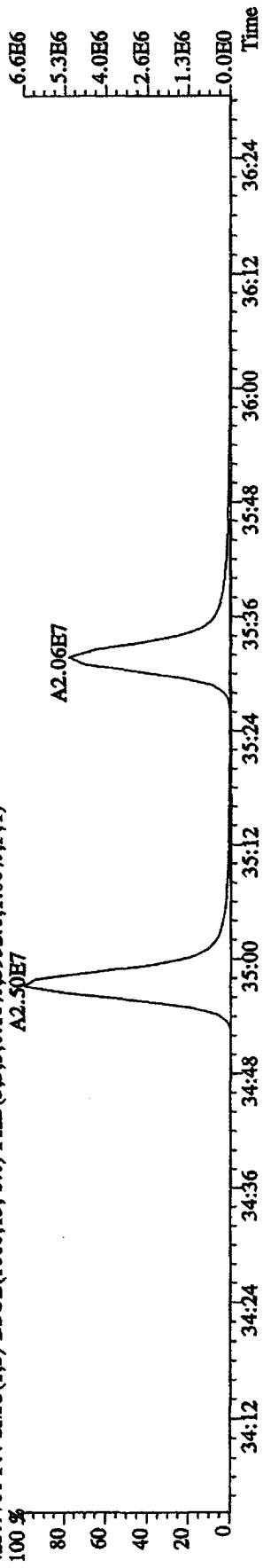


File:12AP104D5 #1-198 Acq:12-APR-2010 08:30:15 GC EI+ Voltage SIR Autospec-UltimaE

Sample#1 Text:CP0412 :DB-5 CPSM 3732-04 Exp:DIOXINRES8290A

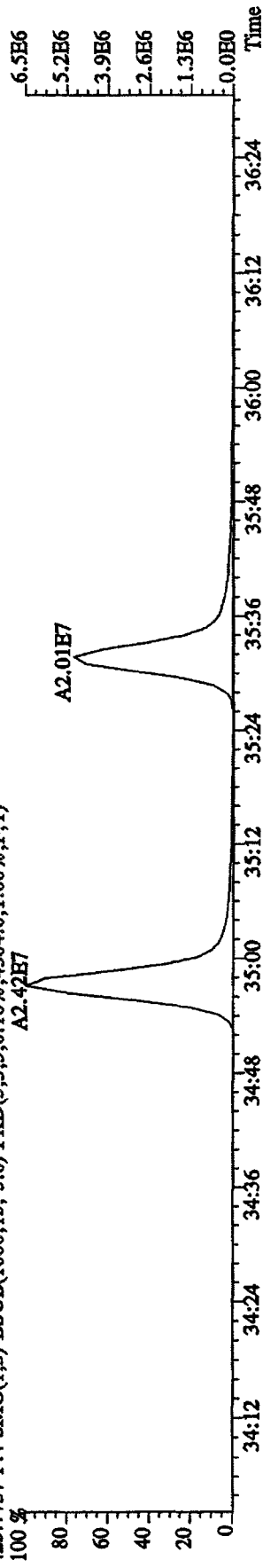
423.7766 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4504.0,1.00%,F,T)

100 % A2.50E7



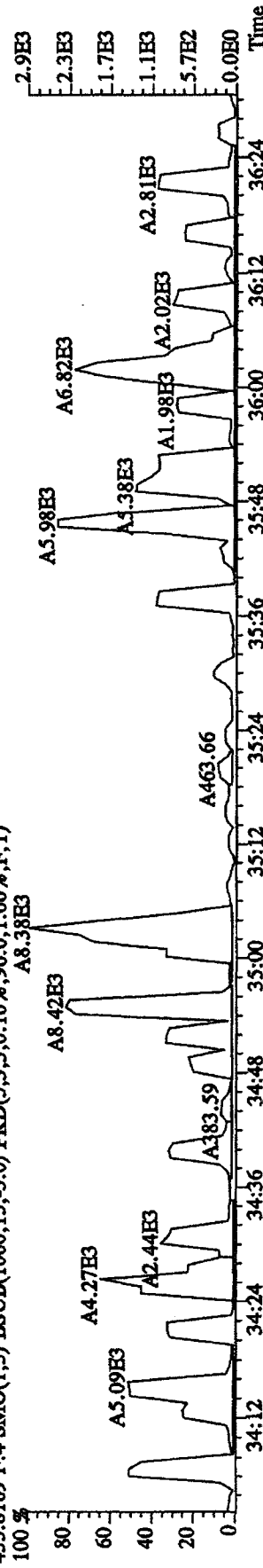
425.7737 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4504.0,1.00%,F,T)

100 % A2.42E7



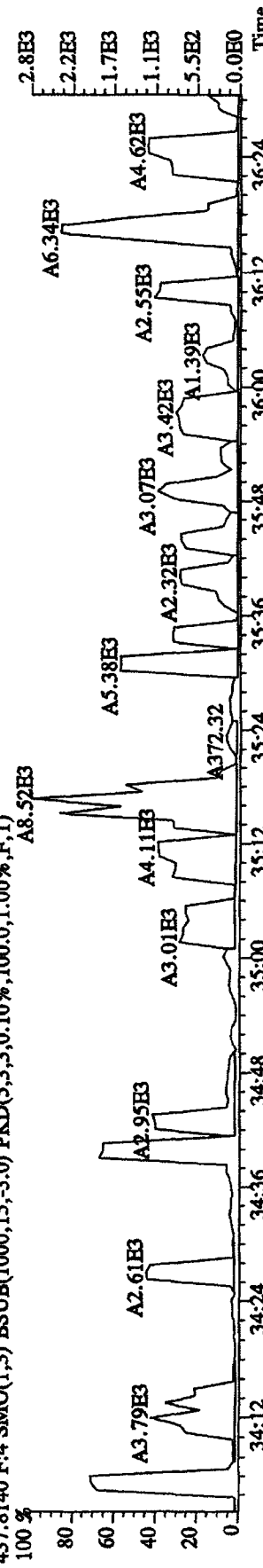
435.8169 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,96.0,1.00%,F,T)

100 % A8.38E3

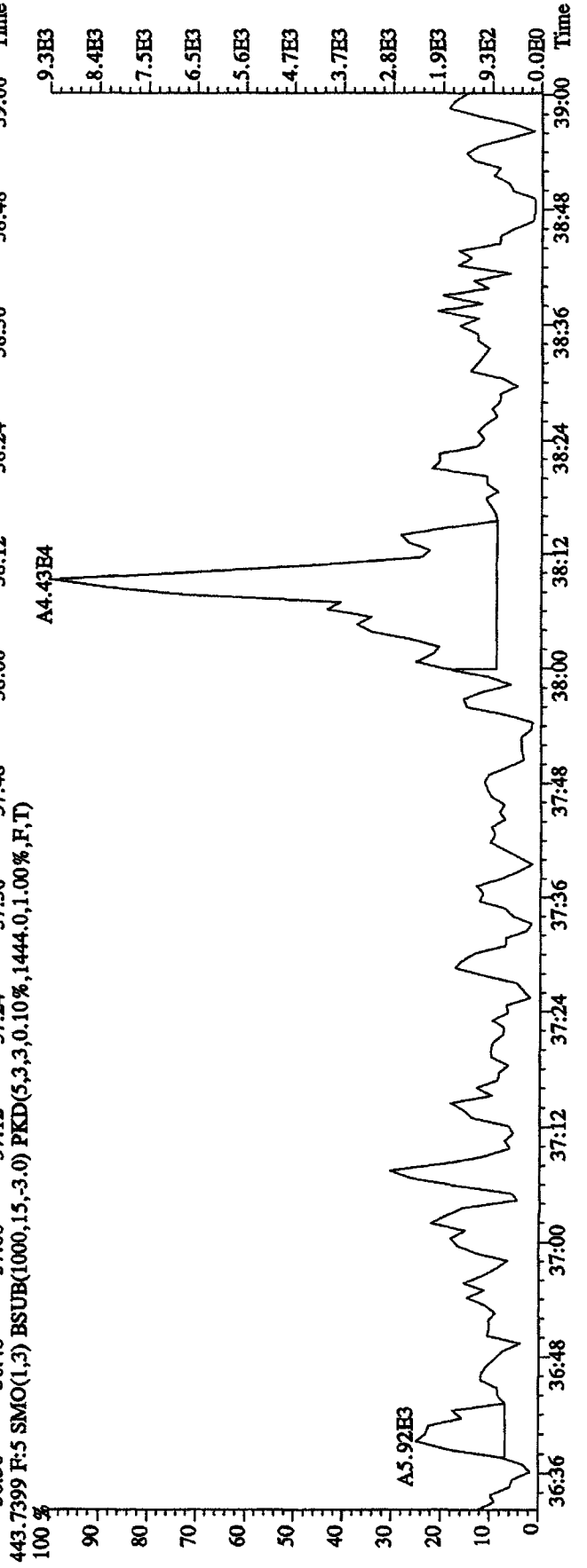
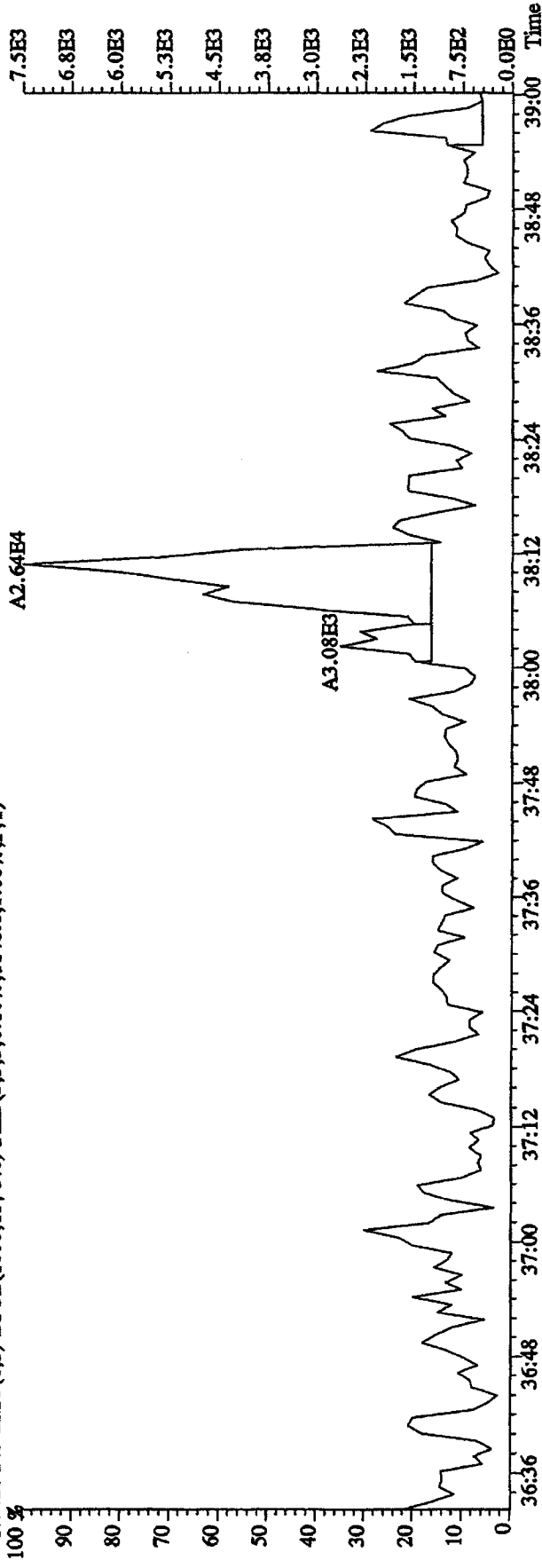


437.8140 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,100.0,1.00%,F,T)

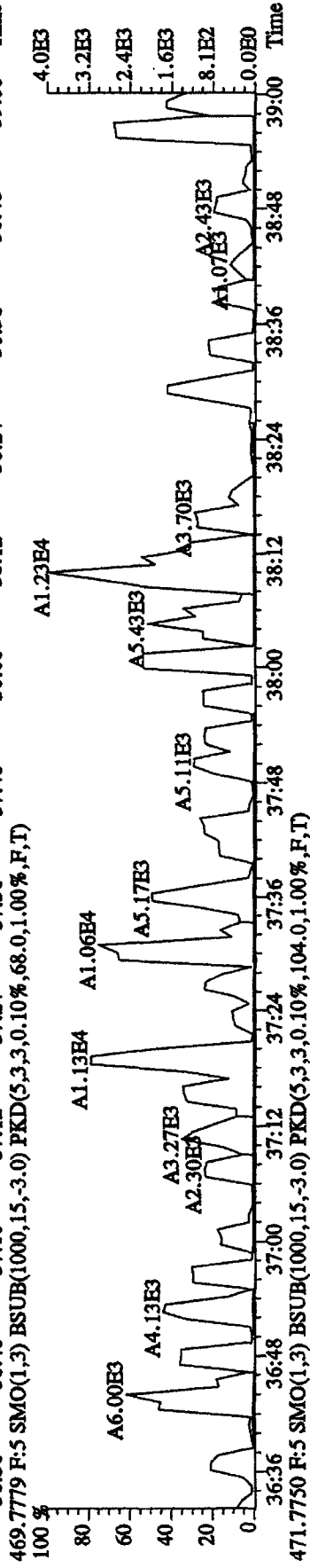
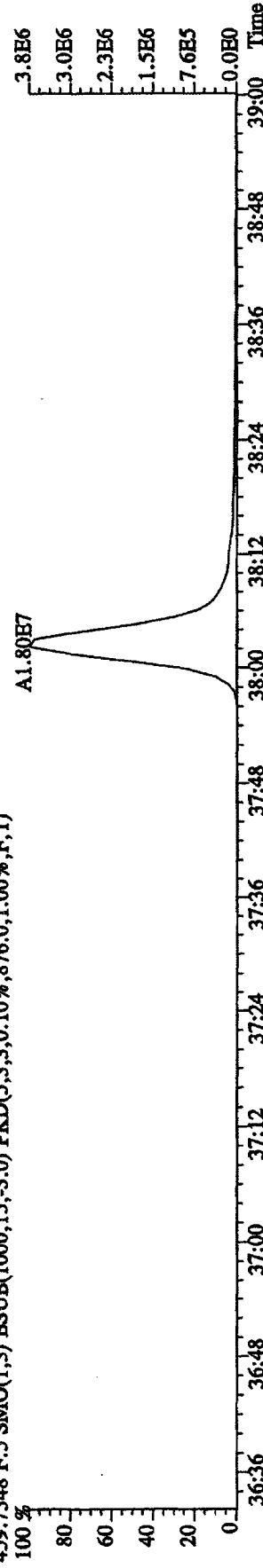
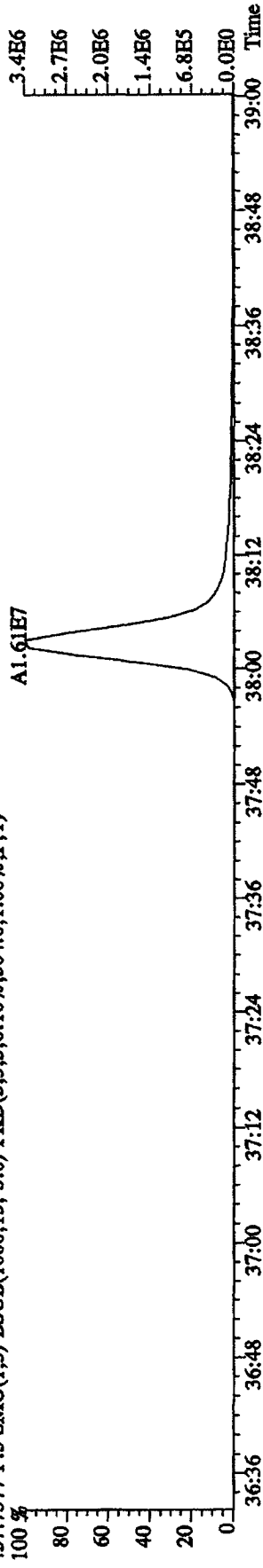
100 % A8.52E3



File:12AP104D5 #1-190 Acq:12-APR-2010 08:30:15 GC HI+ Voltage SIR Autospec-UltimaE  
 Sample#1 Text:CP0412 :DB-5 CPSM 3732-04 Exp:DIOXINRES8290A  
 441.7428 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1148.0,1.00%,F,T)



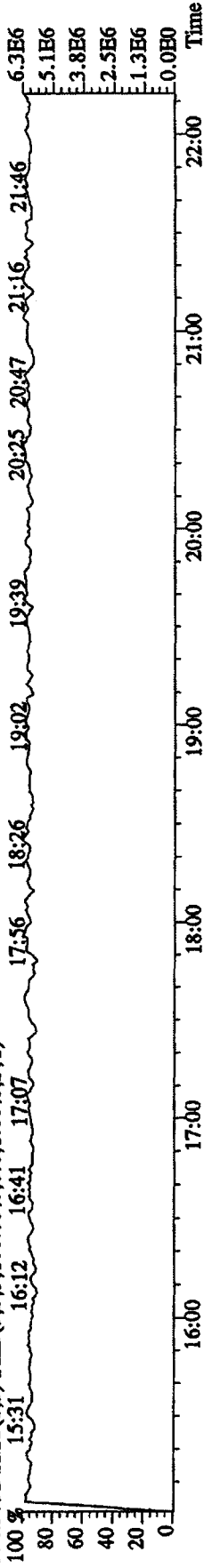
File:12AP104D5 #1-190 Acq:12-APR-2010 08:30:15 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 Text:CP0412 :DB-5 CPSM 3732-04 Exp:DIOXINRES8290A  
 457.7377 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,504.0,1.00% F,T)



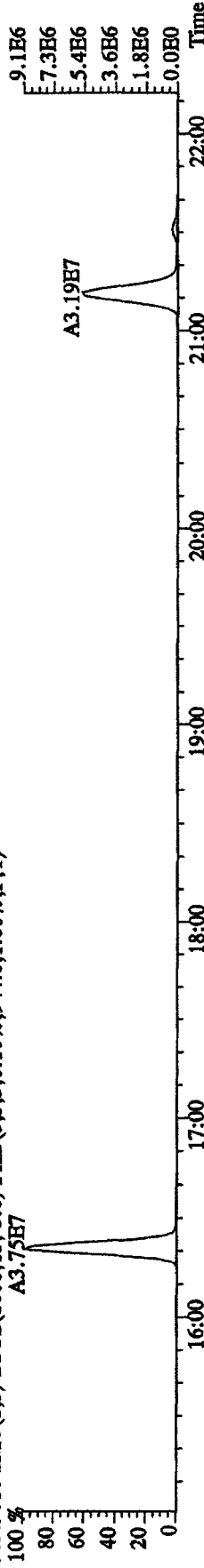
File:12AP104D5 #1-435 Acq:12-APR-2010 08:30:15 GC EI + Voltage SIR Autospec-UltimaE

Sample#1 Text:CP0412 :DB-5 CPSM 3732-04 Exp:DIOXINRES8290A

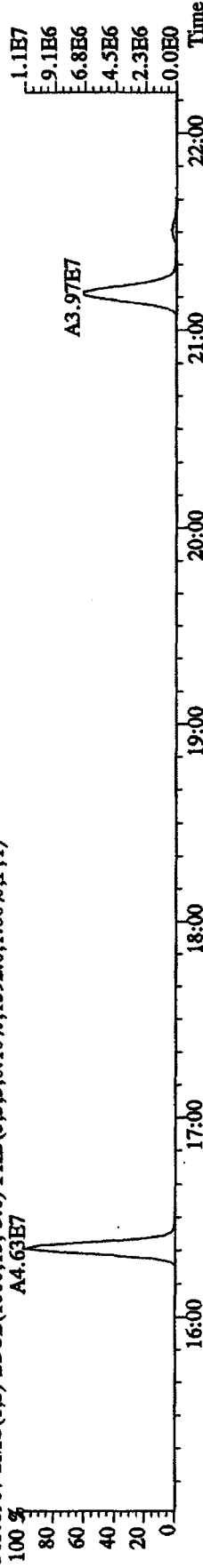
354.9792 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



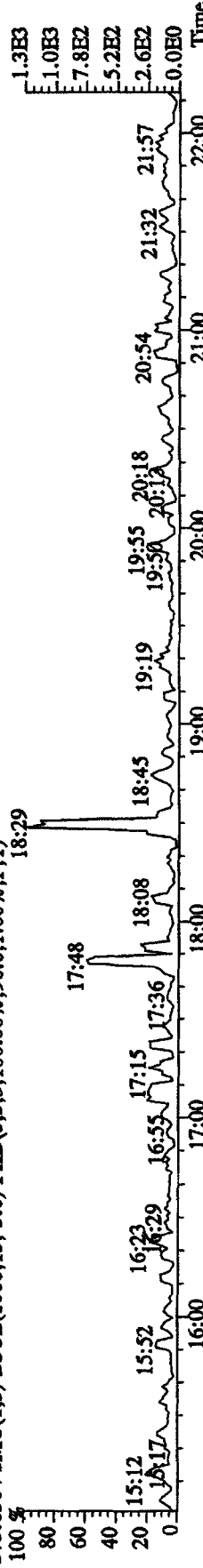
303.9016 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,944.0,1.00%,F,T)



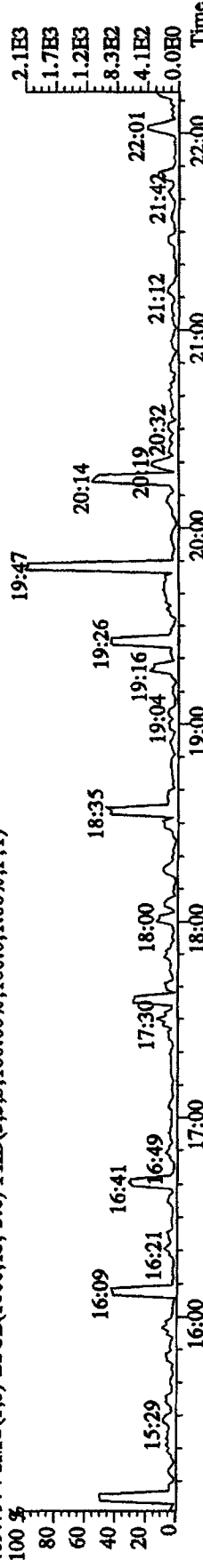
305.8987 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1592.0,1.00%,F,T)



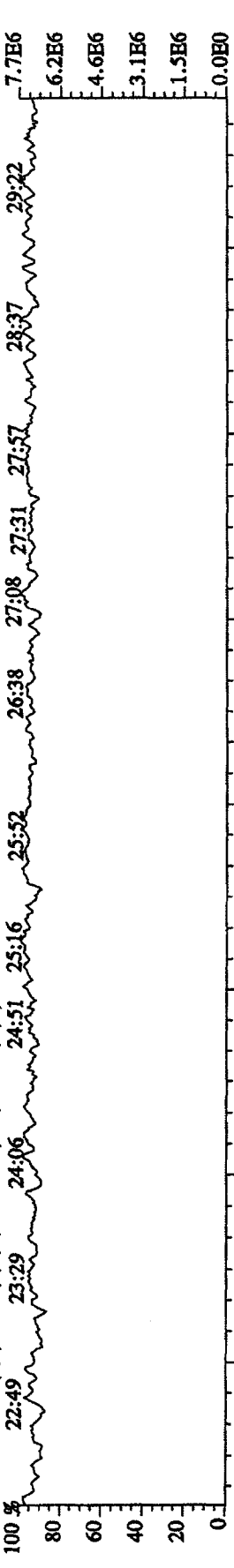
375.8364 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,96.0,1.00%,F,T)



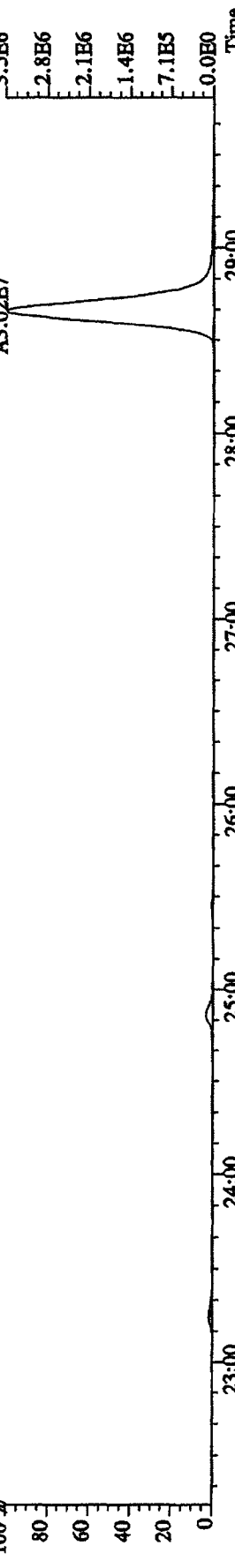
409.7974 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,100.0,1.00%,F,T)



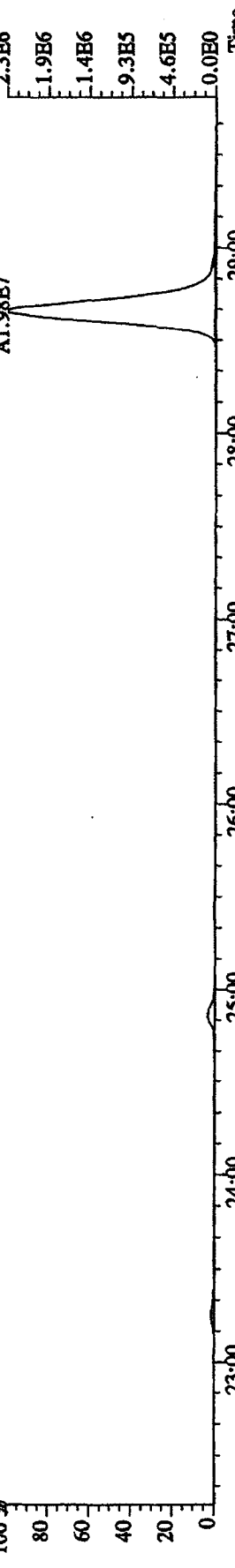
File:12AP104D5 #1-605 Acq:12-APR-2010 08:30:15 GC HI+ Voltage SIR Autospec-UltimaE  
 Sample#1 Text:CP0412 ;DB-5 CPSM 3732-04 Exp:DIOXINRES8290A  
 354.9792 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



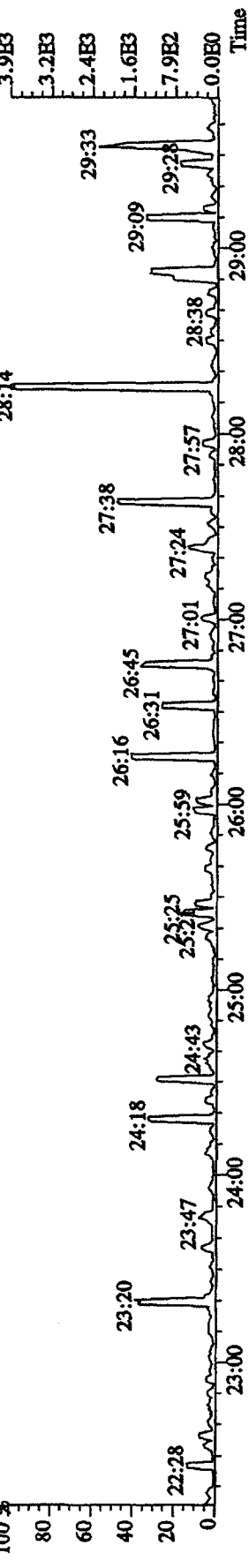
339.8597 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1652.0,1.00%,F,T)



341.8567 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1316.0,1.00%,F,T)

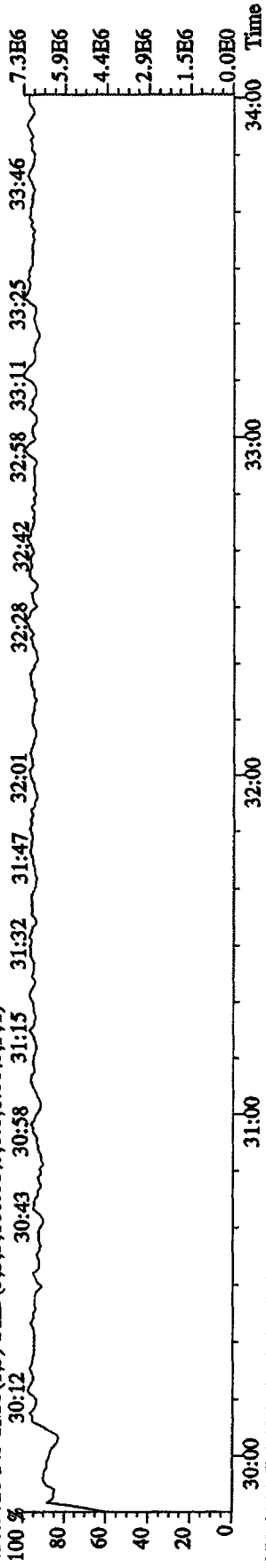


409.7974 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,92.0,1.00%,F,T)

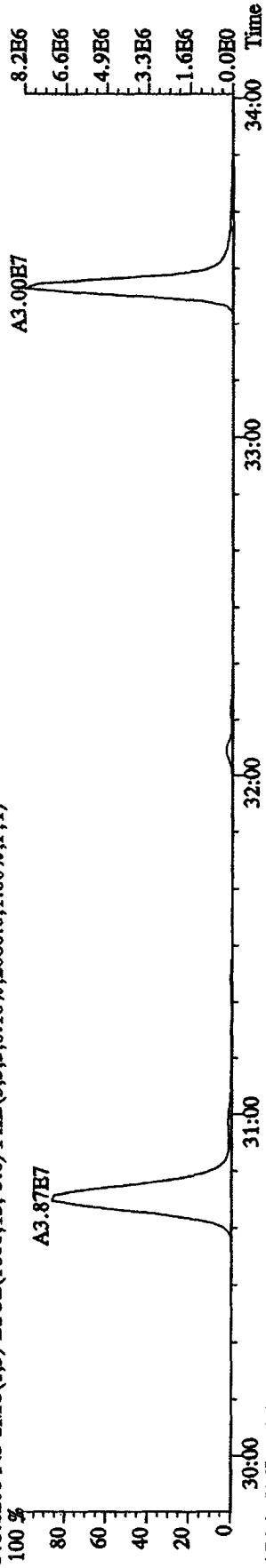




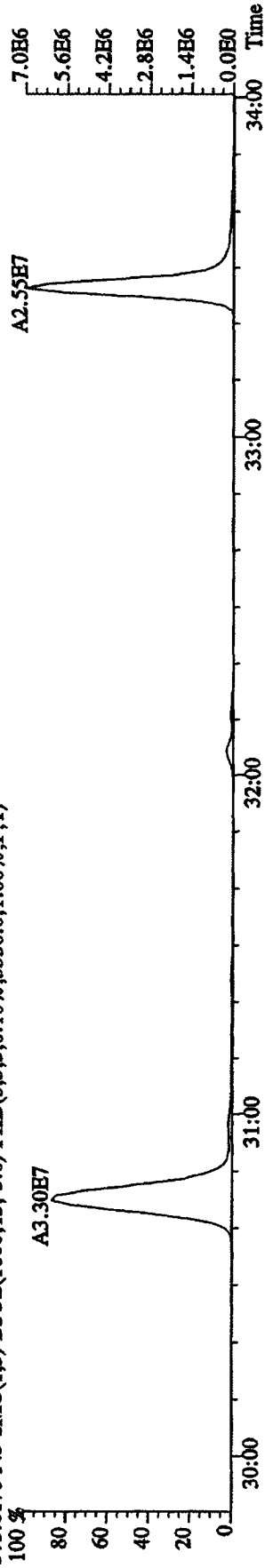
File:12AP104D5 #1-317 Acq:12-APR-2010 08:30:15 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 Text:CP0412 :DB-5 CP5M 3732-04 Exp:DIOXINRES8290A  
 430.9728 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100 % 30:12 30:43 30:58 31:15 31:32 31:47 32:01 32:28 32:42 32:58 33:11 33:25 33:46



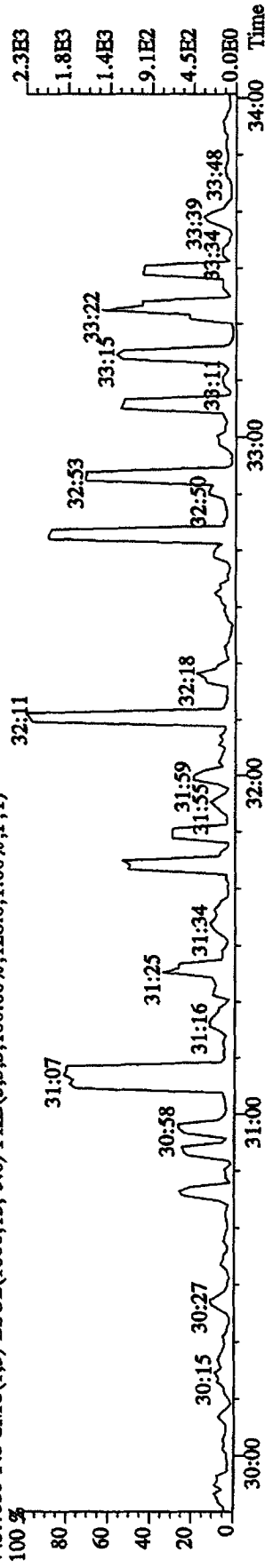
373.8208 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2080.0,1.00%,F,T)



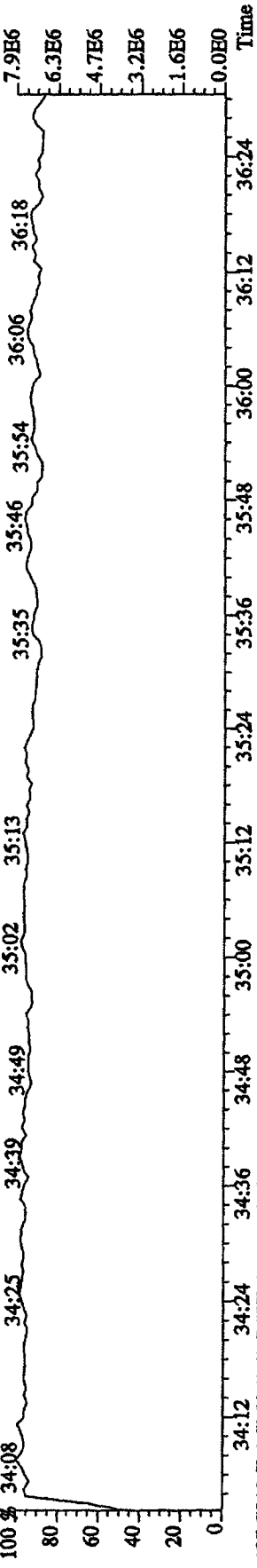
375.8178 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3356.0,1.00%,F,T)



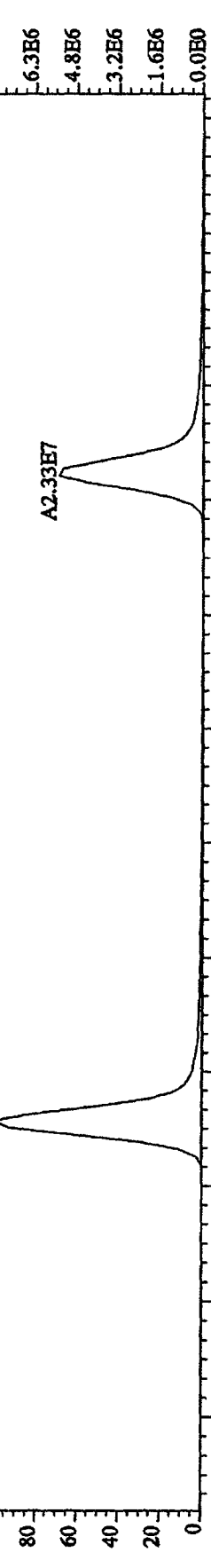
445.7555 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,128.0,1.00%,F,T)



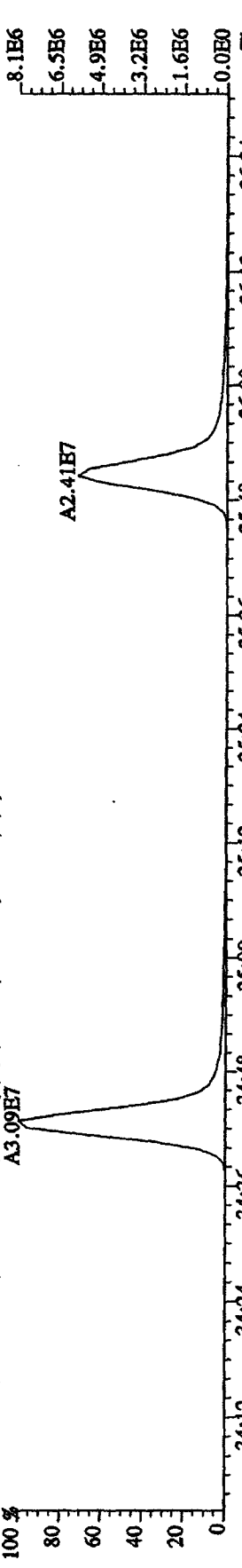
File: 12AP104D5 #1-198 Acq: 12-APR-2010 08:30:15 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#1 Text: CP0412 :DB-5 CPSM 3732-04 Exp: DIOXINRES8290A  
 430.9728 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



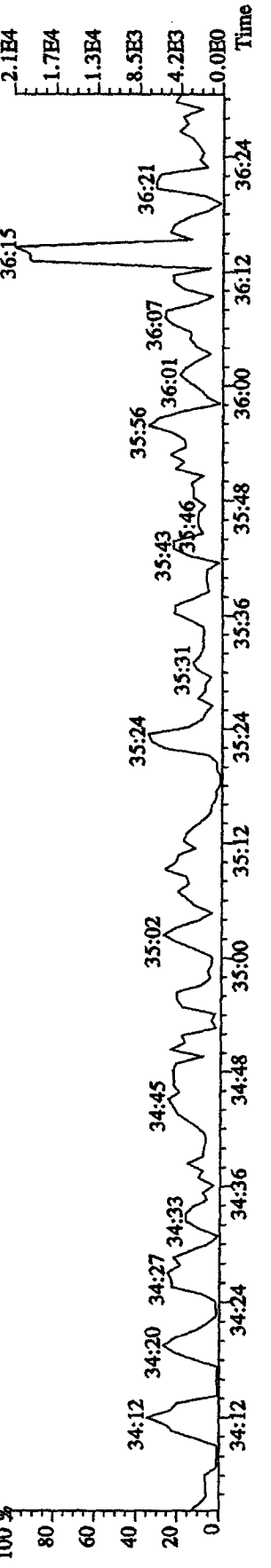
407.7818 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14896.0,1.00%,F,T)



409.7789 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13544.0,1.00%,F,T)



479.7165 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,6068.0,1.00%,F,T)

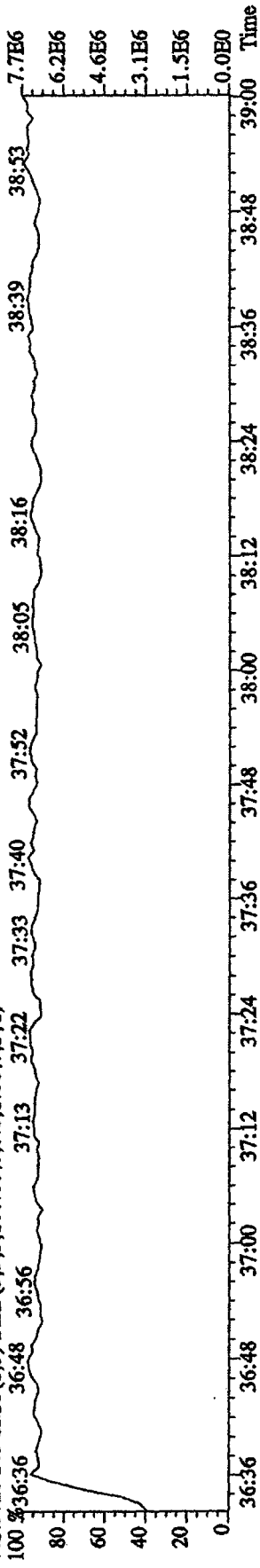


File:12API04D5 #1-190 Acq:12-APR-2010 08:30:15 GC EI+ Voltage SIR Autospec-UltimaE

Sample#1 Text:CP0412 :DB-5 CFSM 3732-04 Exp:DIOXINRES8290A

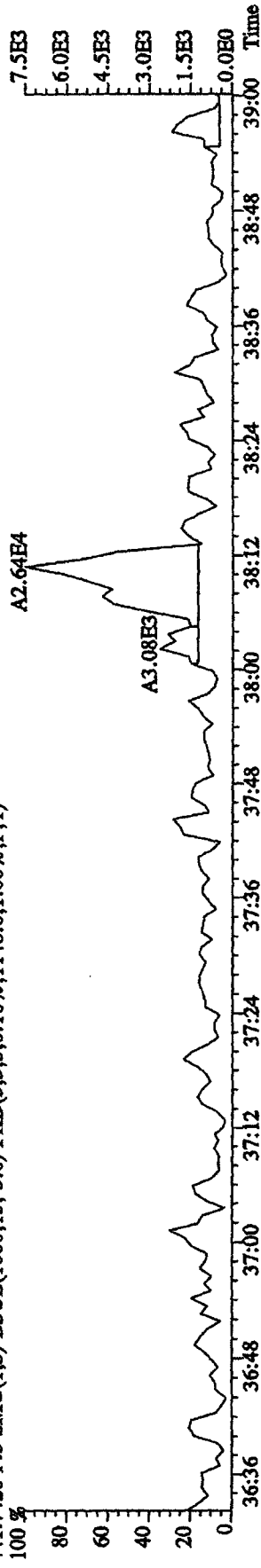
442.9728 F:5 SMO(1.3) PKD(5.3,3.0,100.00%,0.0,1.00%,F,T)

100 % 36:36 36:48 37:12 37:22 37:33 37:40 37:52 38:05 38:16 38:39 38:53 7.7E6



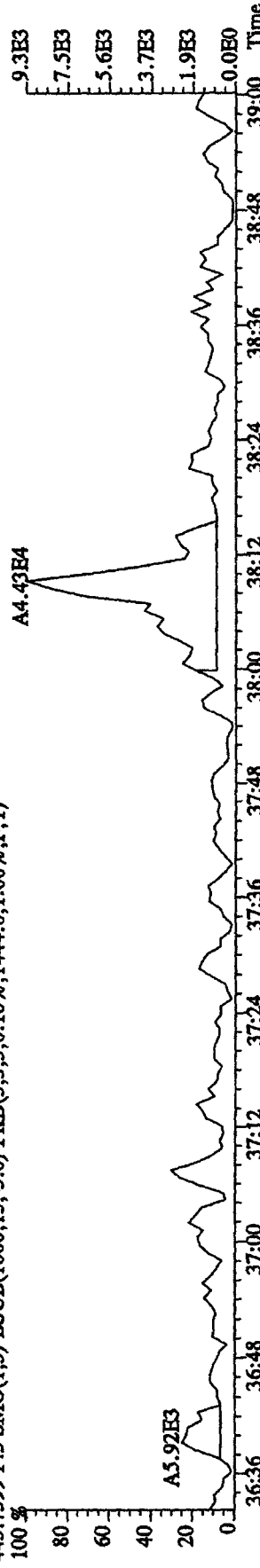
441.7428 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,1148.0,1.00%,F,T)

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 7.5E3



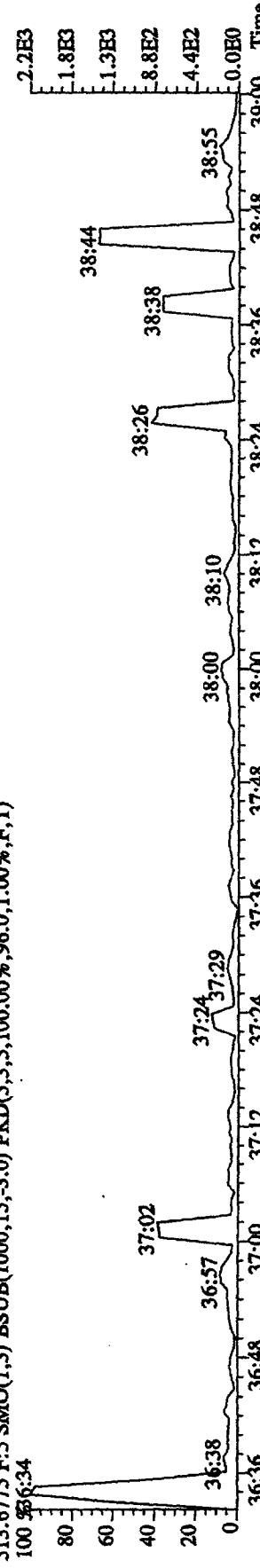
443.7399 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,1444.0,1.00%,F,T)

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 9.3E3



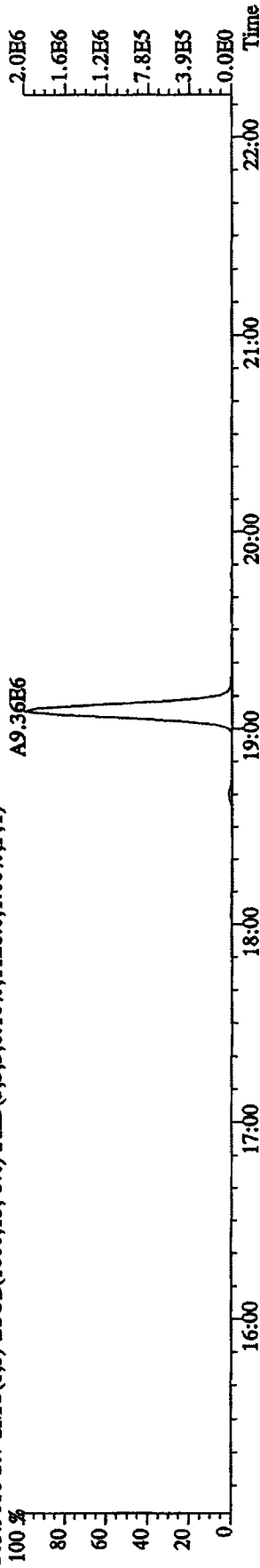
513.6775 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,5.100.00%,96.0,1.00%,F,T)

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 2.2E3

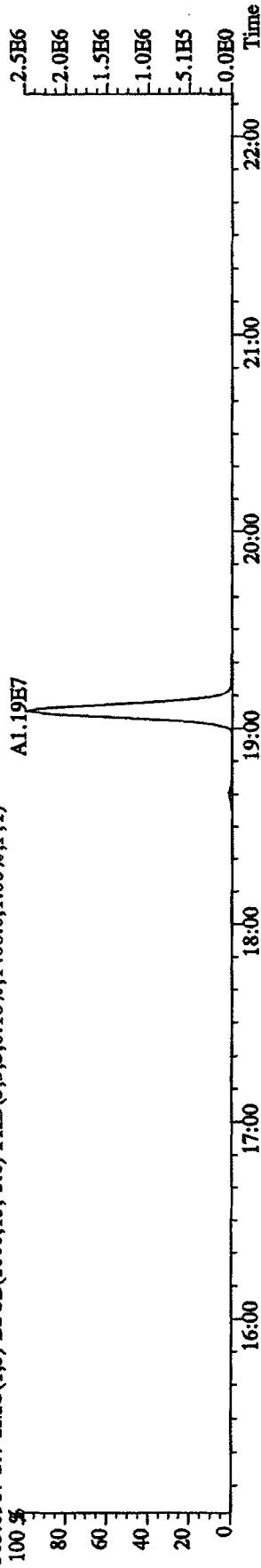


File:12AP104D5 #1-435 Acq:12-APR-2010 13:00:53 GC EI+ Voltage SIR Autospec-UltimaB

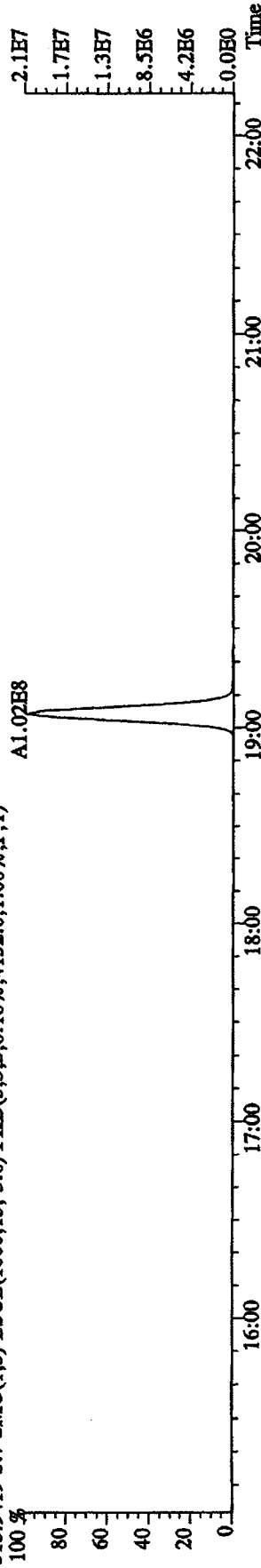
Sample#7 Text:ST0412B :2nd Source 09DXN449 Exp:DIOXINRES8290A  
303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1128.0,1.00%,F,T)



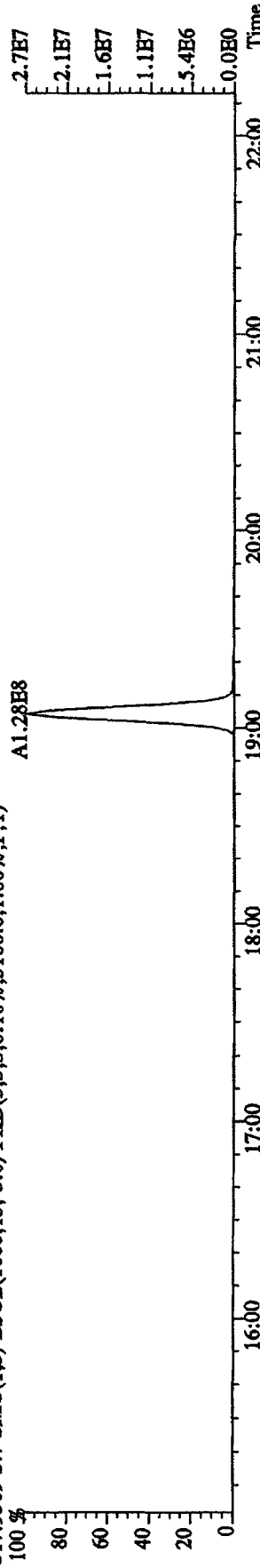
305.8987 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1408.0,1.00%,F,T)



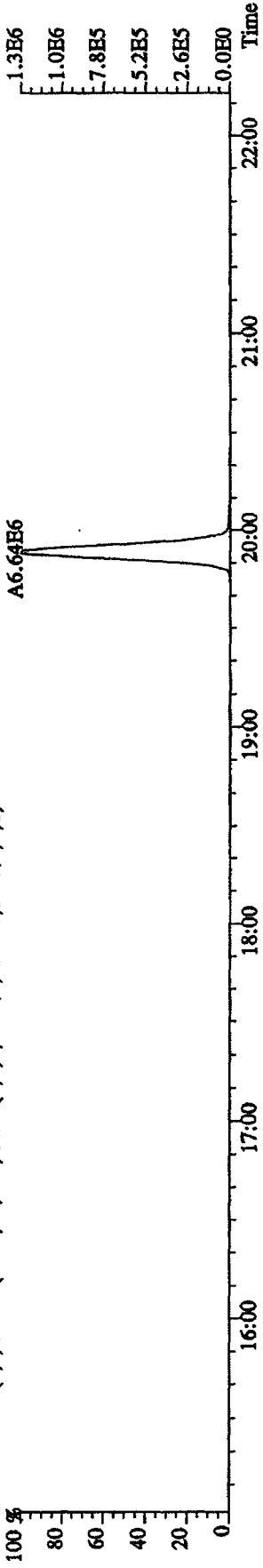
315.9419 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4132.0,1.00%,F,T)



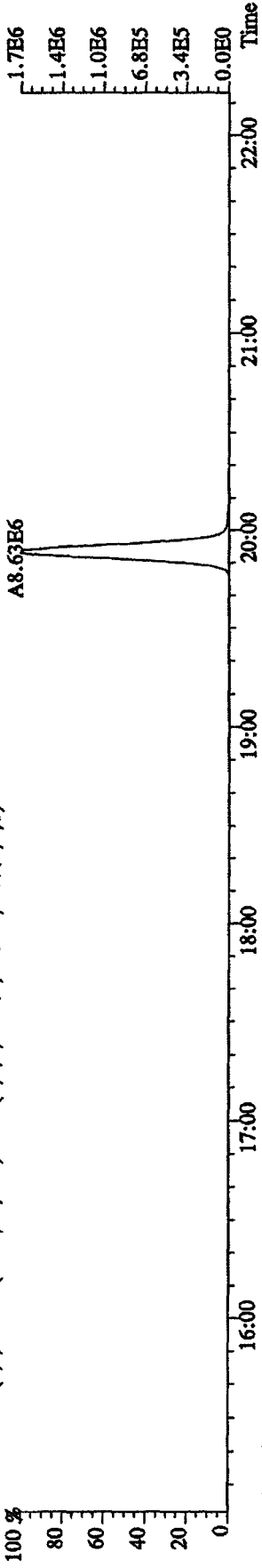
317.9389 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3160.0,1.00%,F,T)



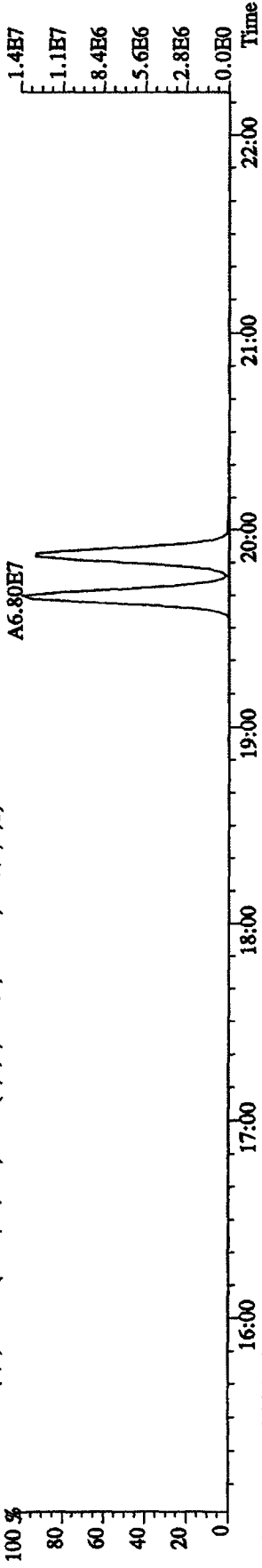
File: 12AP104D5 #1-435 Acq: 12-APR-2010 13:00:53 GC HI + Voltage SIR Autospec-UltimaE  
 Sample#7 Text: ST0412B : 2nd Source 09DXN449 Exp: DIOXINRES8290A  
 319.8965 S: 7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1228.0,1.00%,F,T)



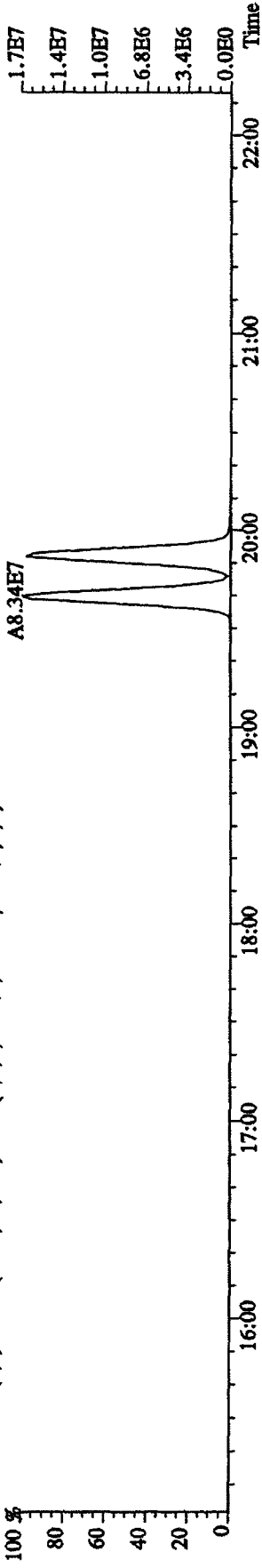
321.8936 S: 7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1312.0,1.00%,F,T)



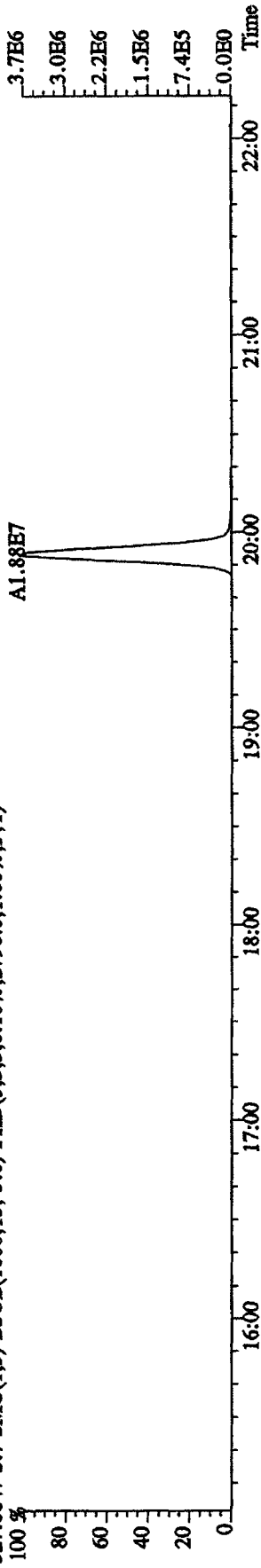
331.9368 S: 7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5440.0,1.00%,F,T)



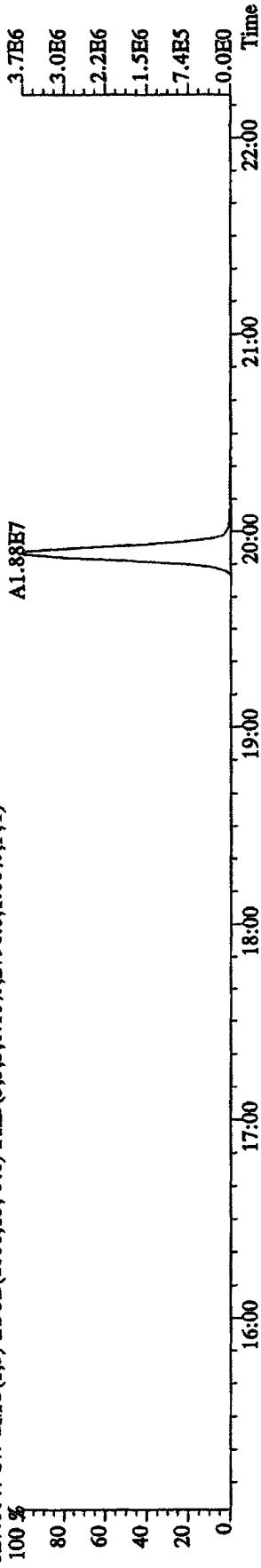
333.9339 S: 7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2932.0,1.00%,F,T)



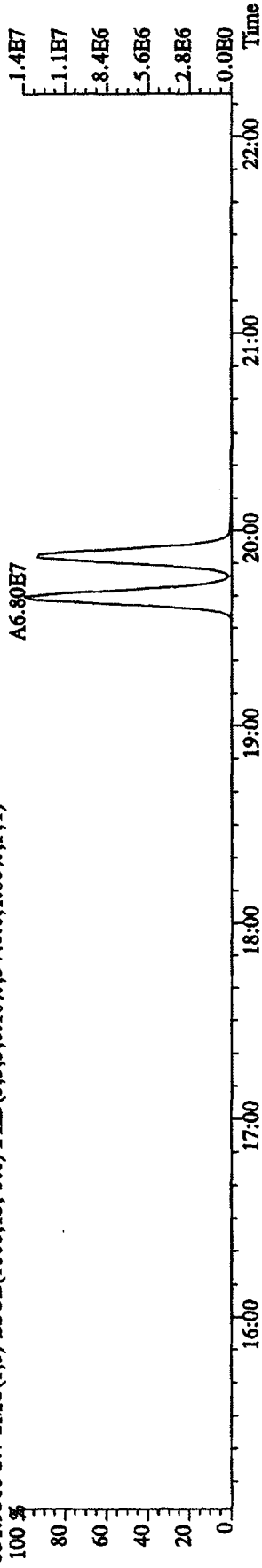
File: 12API04D5 #1-435 Acq: 12-APR-2010 13:00:53 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#7 Text: ST0412E : 2nd Source 09DXN449 Exp: DIOXINRES8290A  
 327.8847 S: 7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2796.0,1.00%,F,T)



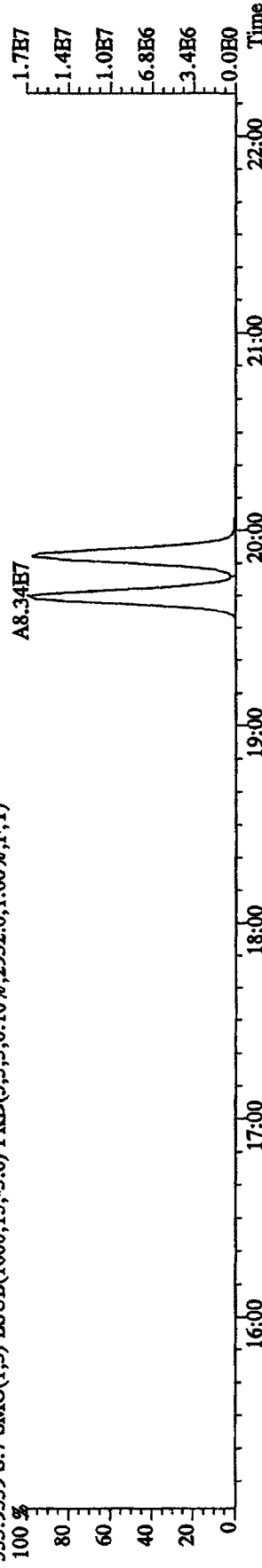
327.8847 S: 7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2796.0,1.00%,F,T)



331.9368 S: 7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5440.0,1.00%,F,T)



333.9339 S: 7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2932.0,1.00%,F,T)

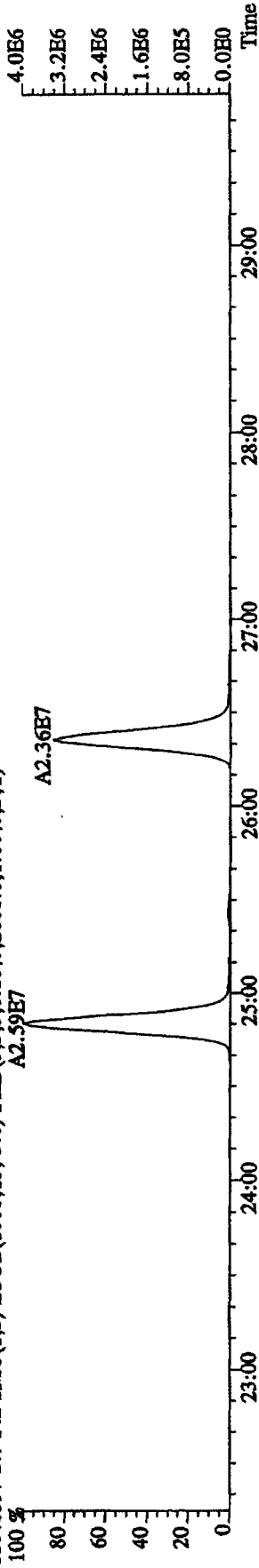


File:12AP104D5 #1-604 Acq:12-APR-2010 13:00:53 GC HI+ Voltage SIR Autospec-UltimaB

Sample#7 Text:ST0412E :2nd Source 09DXN449 Exp:DIOXINRES8290A

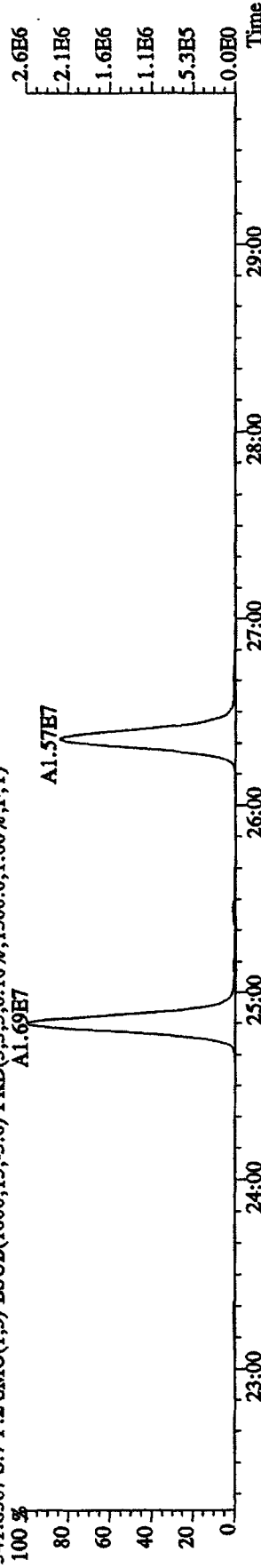
339.8597 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1500.0,1.00%,F,T)

100% A2.59E7



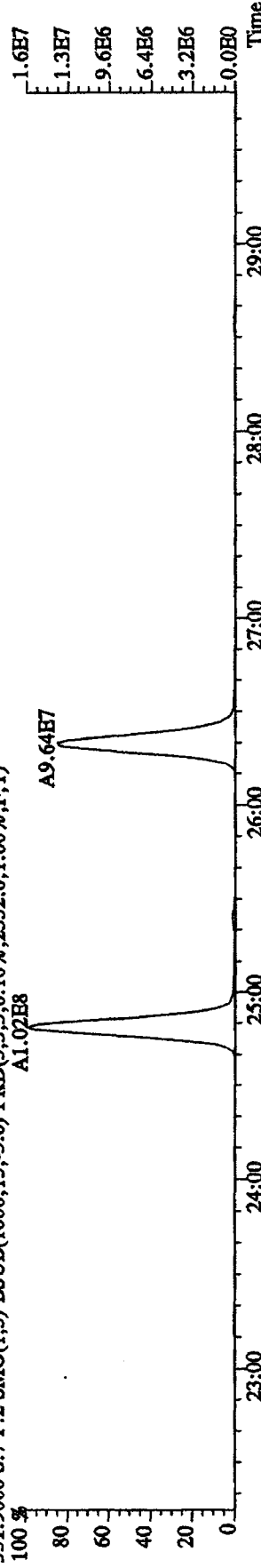
341.8567 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1500.0,1.00%,F,T)

100% A1.69E7



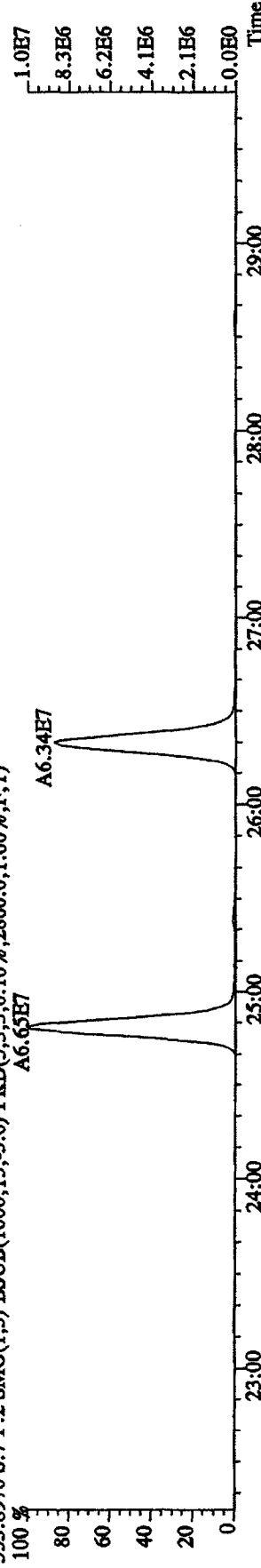
351.9000 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2332.0,1.00%,F,T)

100% A1.02E8

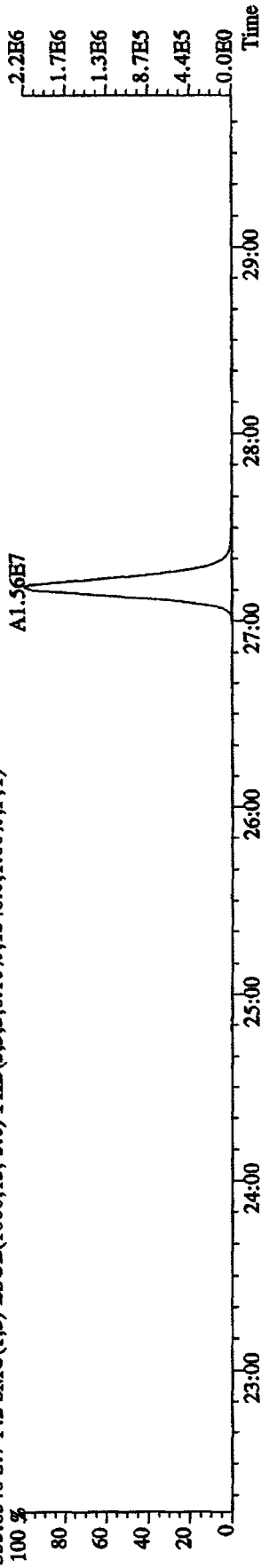


353.8970 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2860.0,1.00%,F,T)

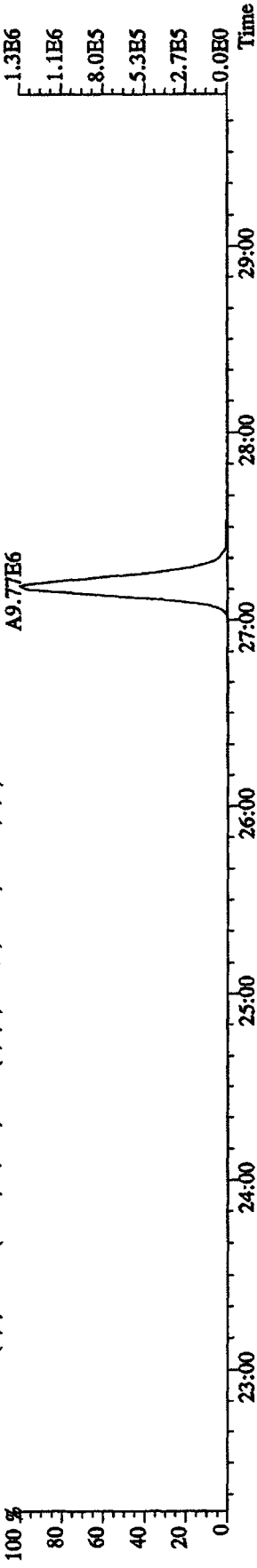
100% A6.65E7



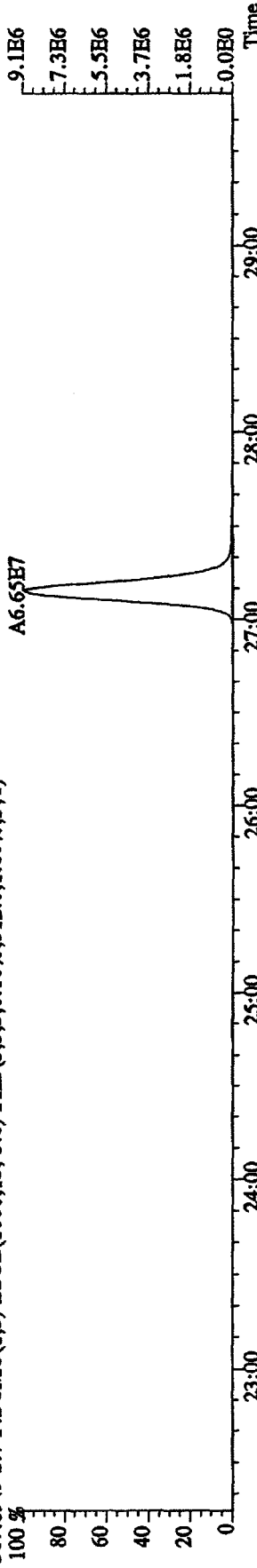
File: 12API04D5 #1-604 Acq: 12-APR-2010 13:00:53 GC EI+ Voltage SIR, Autospec-UltimaB  
 Sample#7 Text: ST0412B :2nd Source 09DXN449 Exp: DIOXINRES8290A  
 355.8546 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1.548,0,1.00%,F,T)



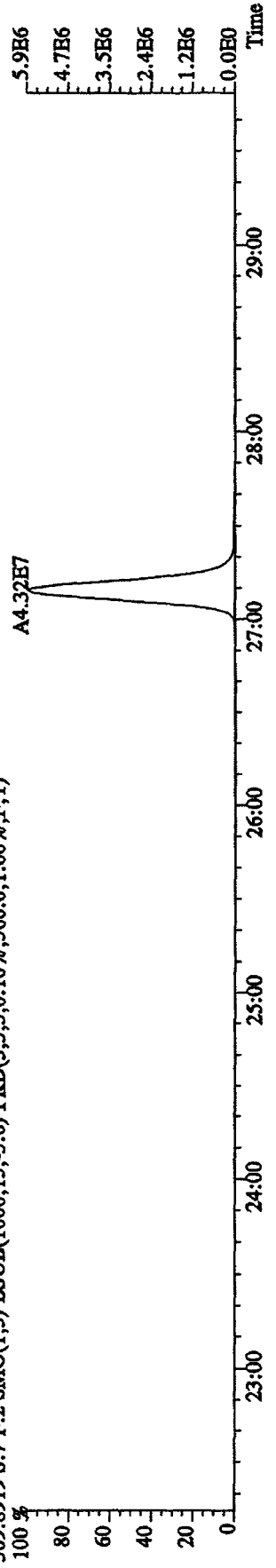
357.8516 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,844.0,1.00%,F,T)



367.8949 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,512.0,1.00%,F,T)

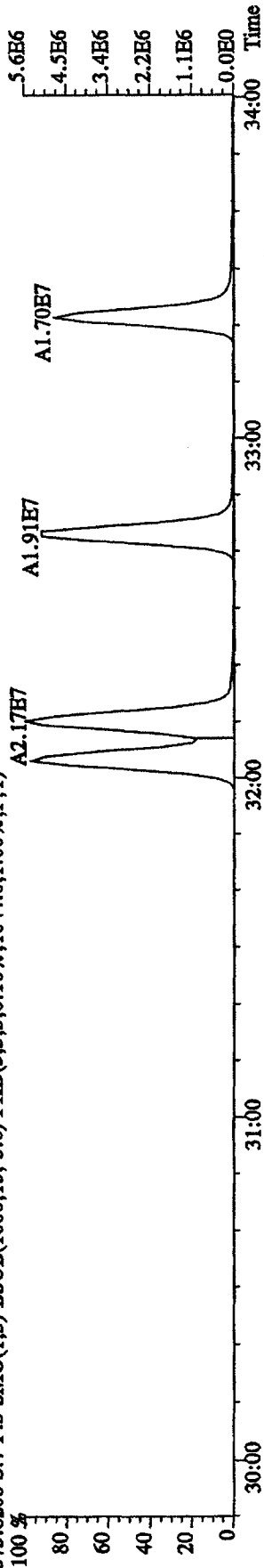


369.8919 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,360.0,1.00%,F,T)

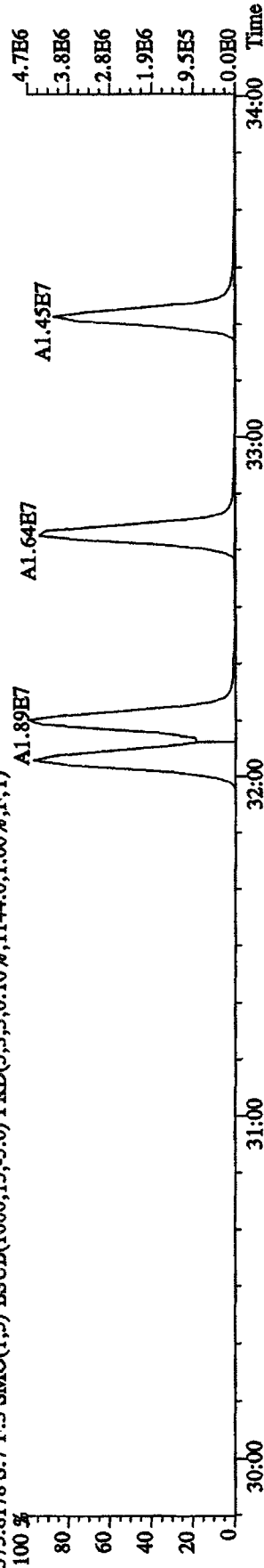




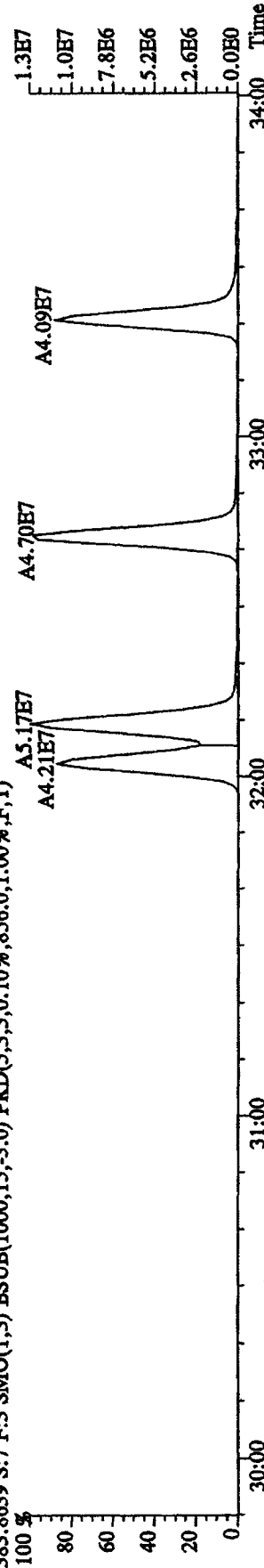
File:12AP104D5 #1-317 Acq:12-APR-2010 13:00:53 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#7 Text:ST0412E :2nd Source 09DXN449 Exp:DIOXINRES8290A  
 373.8208 S:7 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1044,0,1.00%,F,T)



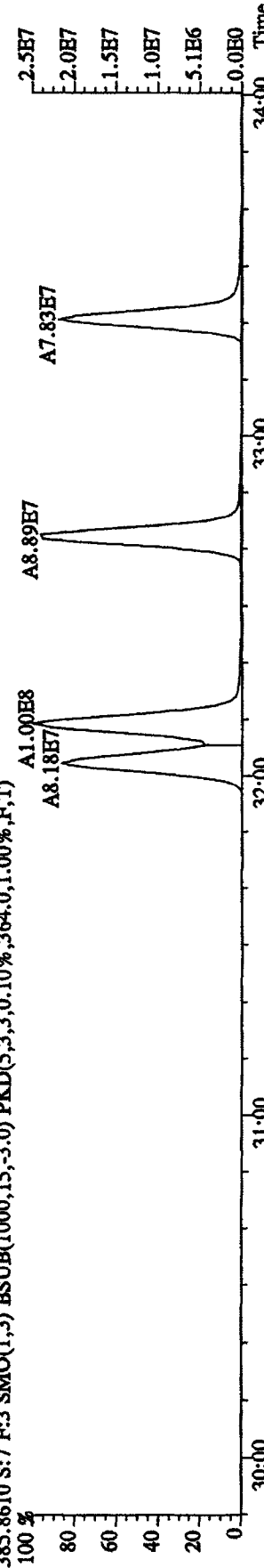
375.8178 S:7 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1144,0,1.00%,F,T)



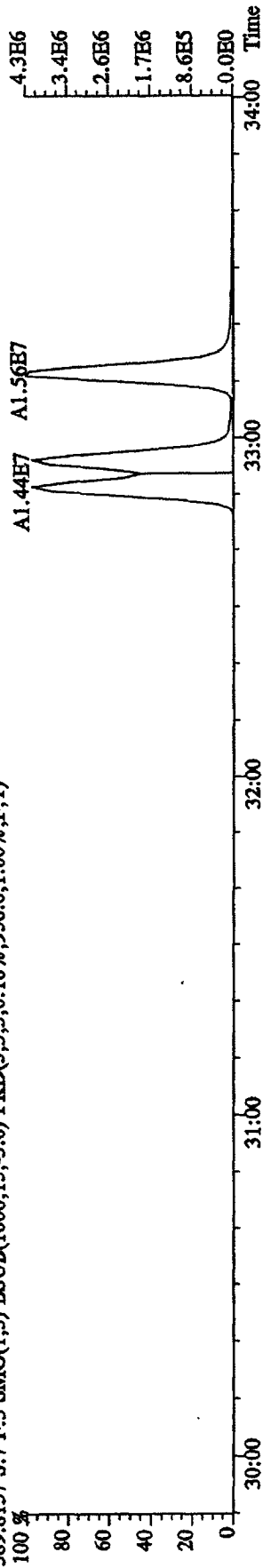
383.8639 S:7 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,856,0,1.00%,F,T)



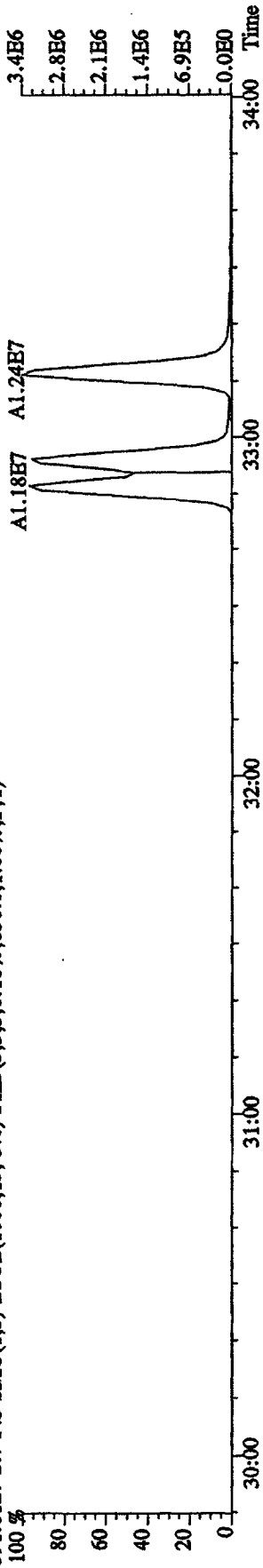
385.8610 S:7 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,364,0,1.00%,F,T)



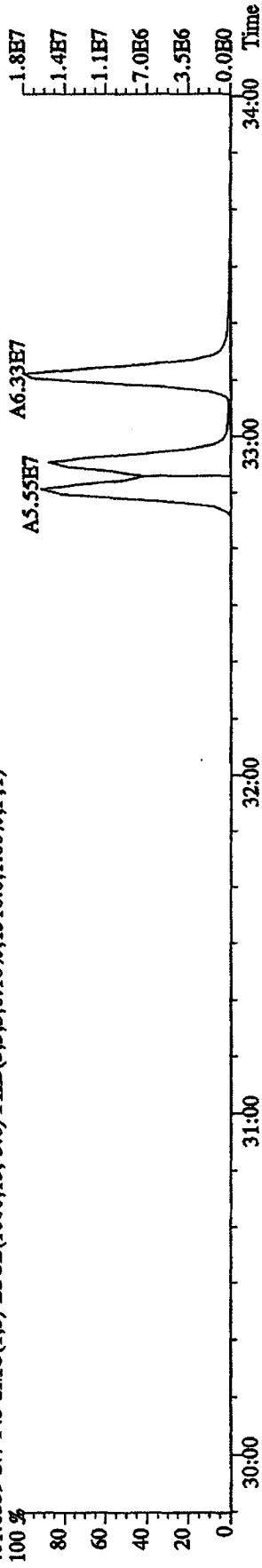
File: 12AP104D5 #1-317 Acq: 12-APR-2010 13:00:33 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#7 Text: ST0412E :2nd Source 09DXN449 Exp: DIOXINRES290A  
 389.8157 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,956.0,1.00%,F,T)



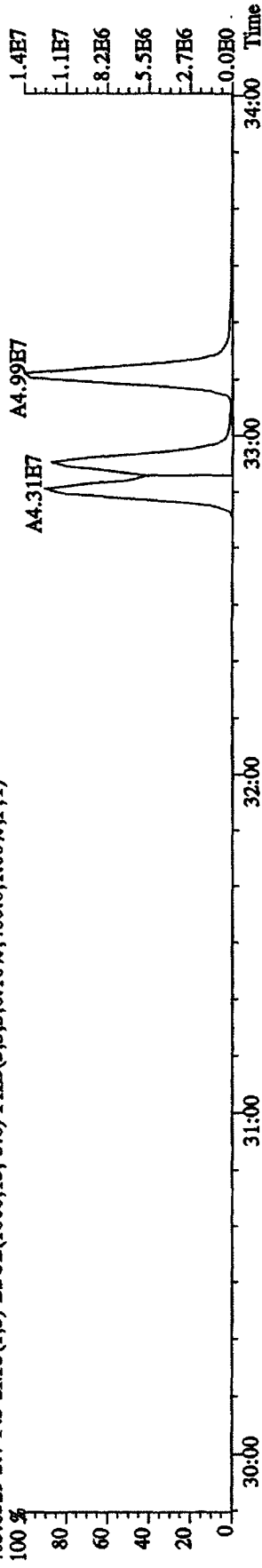
391.8127 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,856.0,1.00%,F,T)



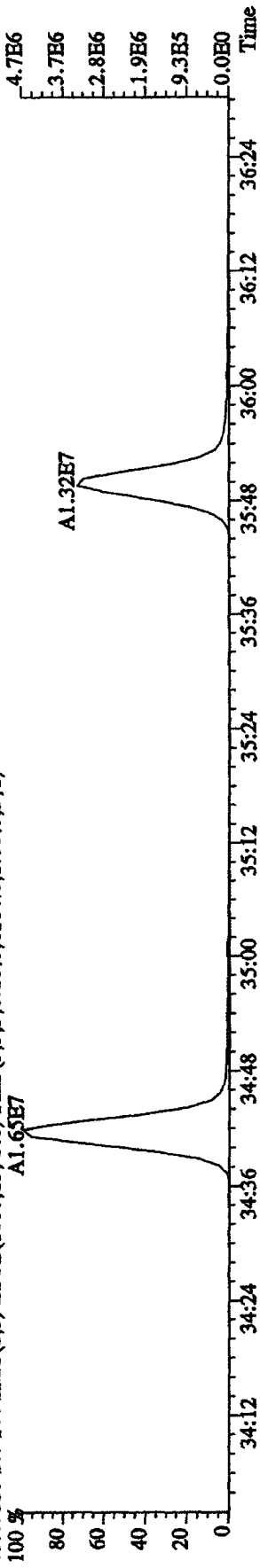
401.8559 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1316.0,1.00%,F,T)



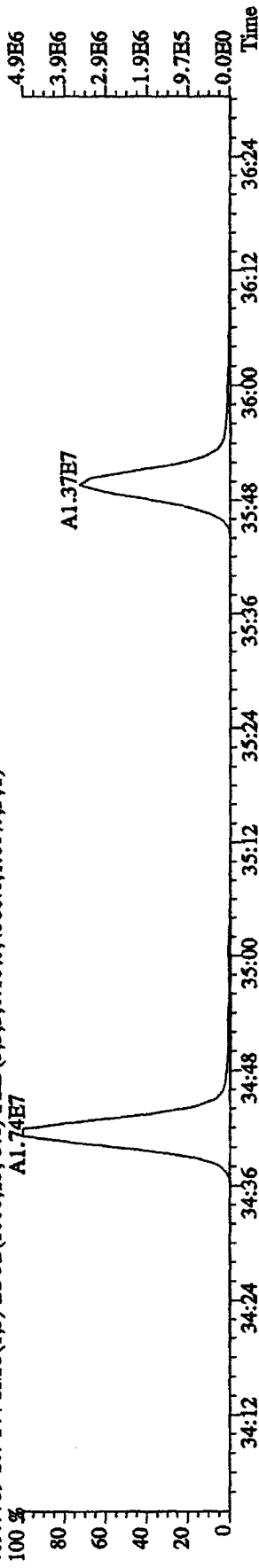
403.8529 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,480.0,1.00%,F,T)



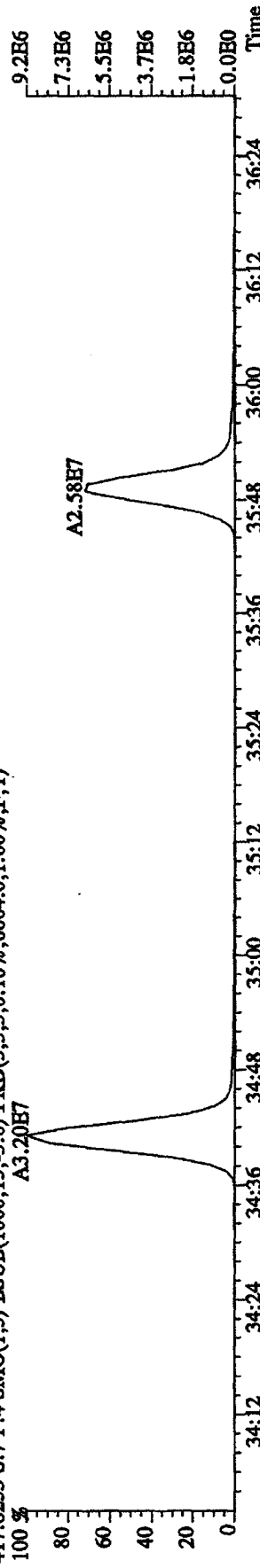
File:12AP104D5 #1-198 Acq:12-APR-2010 13:00:53 GC HI+ Voltage SIR Autospec-UltimaE  
 Sample#7 Text:ST0412B :2nd Source 09DXN449 Exp:DIOXINRES8290A  
 407.7818 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6164.0,1.00%,F,T)



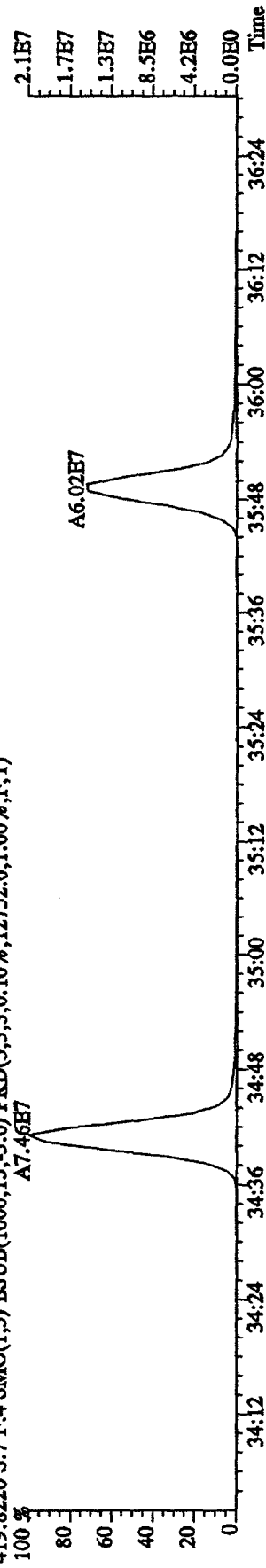
409.7789 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4588.0,1.00%,F,T)



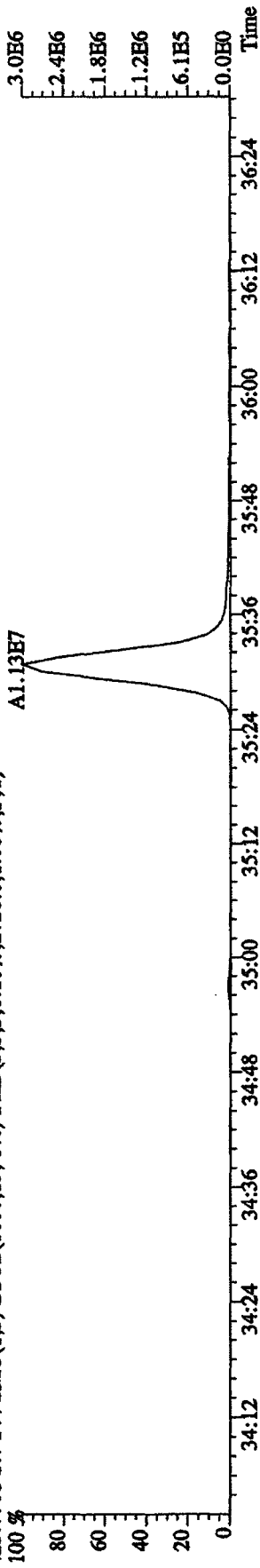
417.8253 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6664.0,1.00%,F,T)



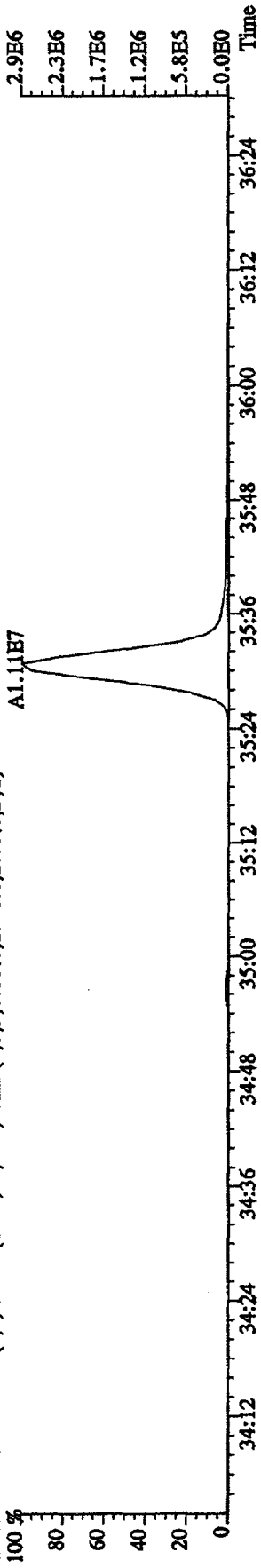
419.8220 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12752.0,1.00%,F,T)



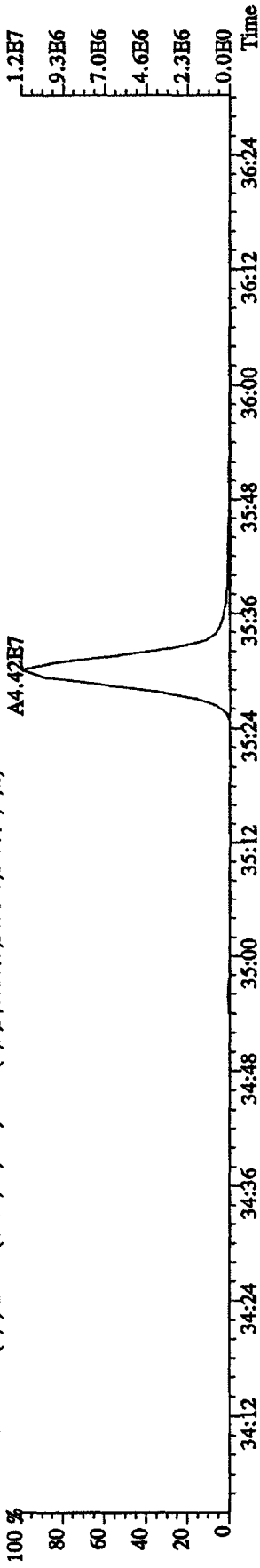
File: 12AP104D5 #1-198 Acq: 12-APR-2010 13:00:53 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#7 Text: ST0412E :2nd Source 09DXN449 Exp: DIOXINRES8290A  
 423.7766 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2720.0,1.00%,F,T)



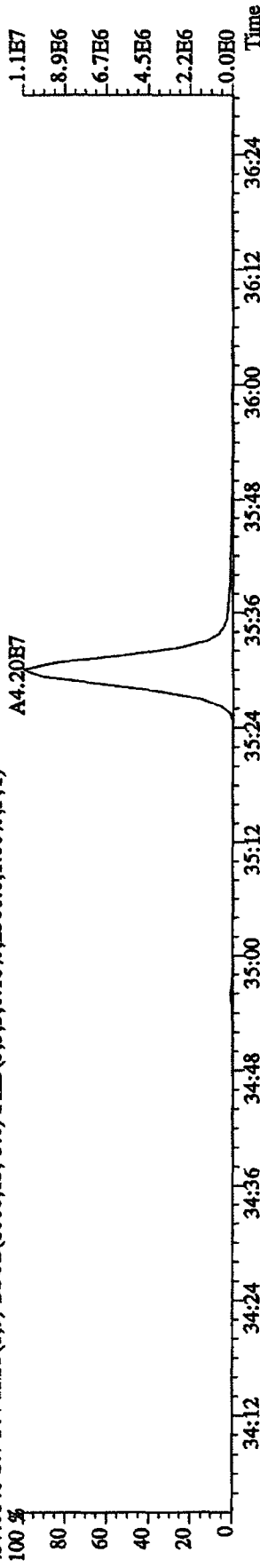
425.7737 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1540.0,1.00%,F,T)



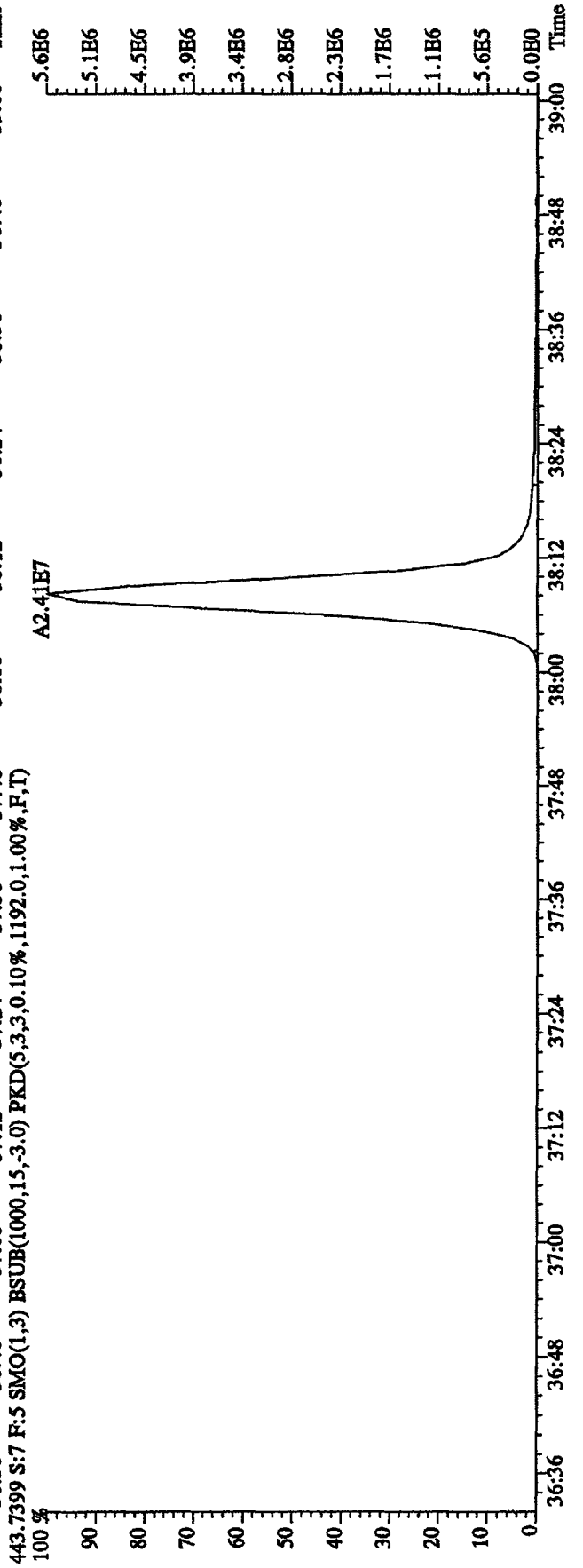
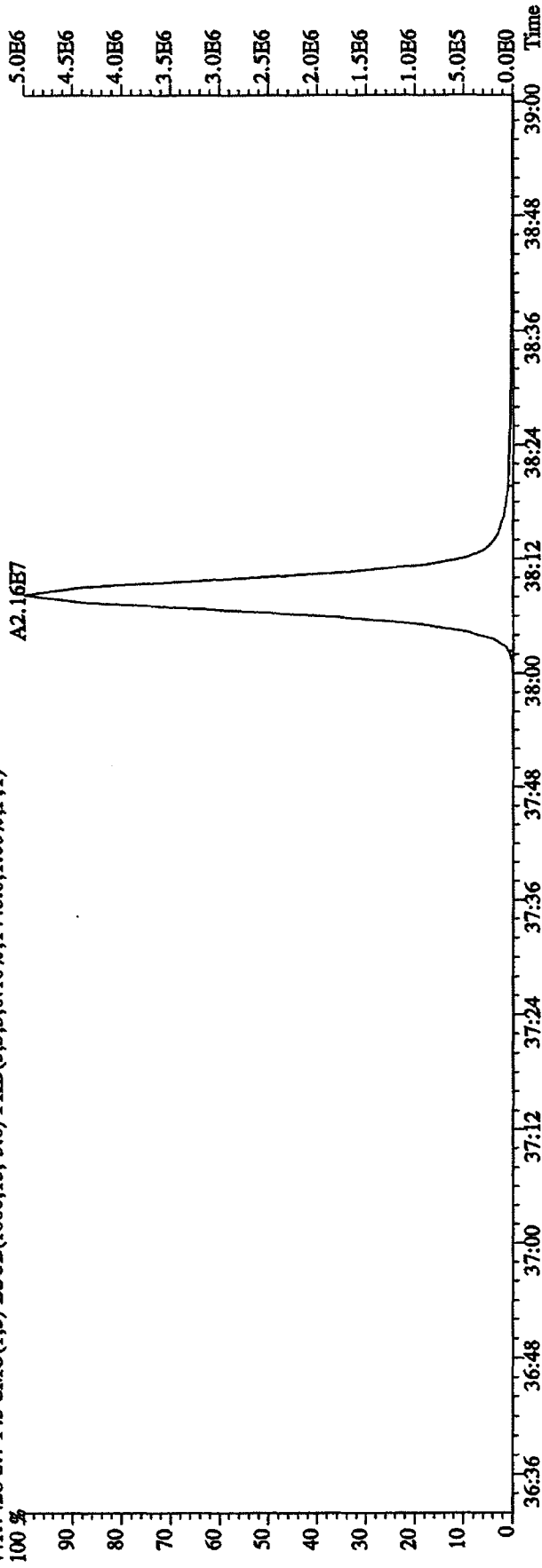
435.8169 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2092.0,1.00%,F,T)



437.8140 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2360.0,1.00%,F,T)

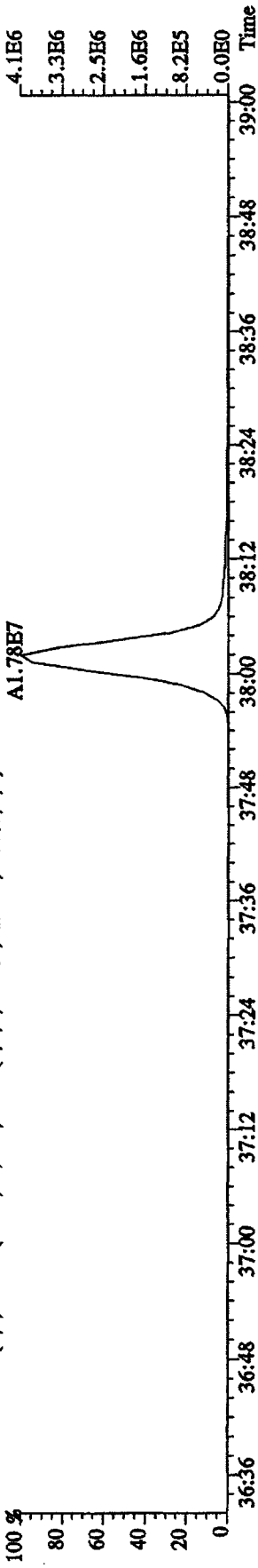


File: 12AP104D5 #1-191 Acq: 12-APR-2010 13:00:53 GC HI+ Voltage SIR Autospec-UltimaE  
 Sample#7 Text: ST0412E :2nd Source 09DXN449 Exp: DIOXINRES8290A  
 441.7428 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1448.0,1.00%,F,T)

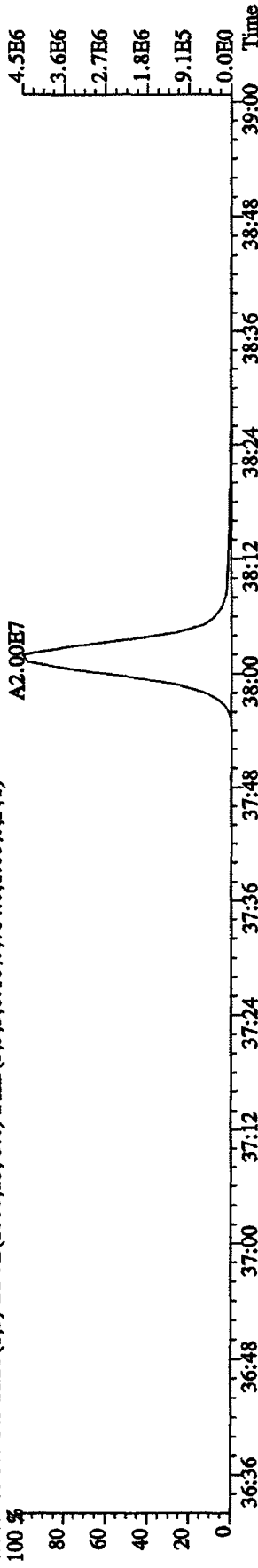


File: 12API04D5 #1-191 Acq: 12-APR-2010 13:00:53 GC EI+ Voltage SIR Autospec-UltimaE

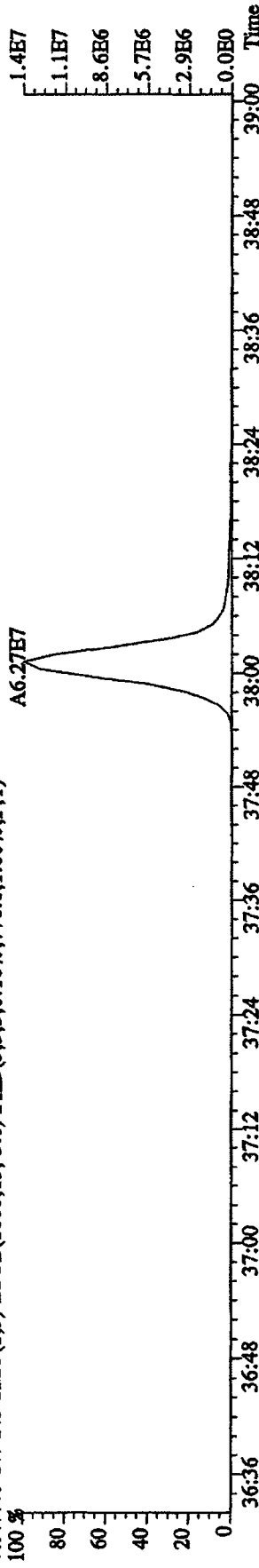
Sample#7 Text: ST0412E : 2nd Source 09DXN449 Exp: DIOXINRES8290A  
457.7377 S: 7 F: 5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3196.0,1.00%,F,T)



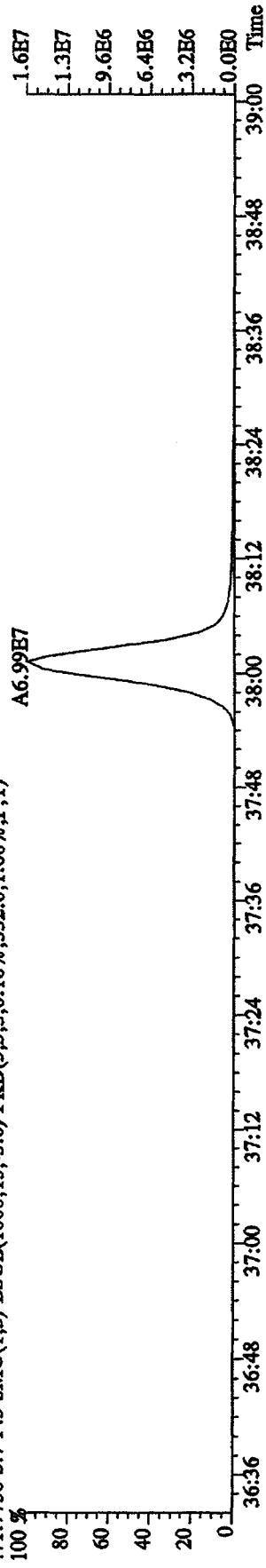
459.7348 S: 7 F: 5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,784.0,1.00%,F,T)



469.7779 S: 7 F: 5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,776.0,1.00%,F,T)

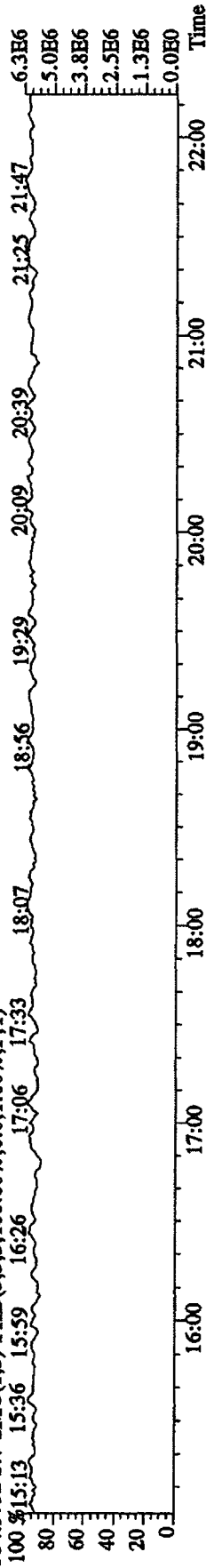


471.7750 S: 7 F: 5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,332.0,1.00%,F,T)

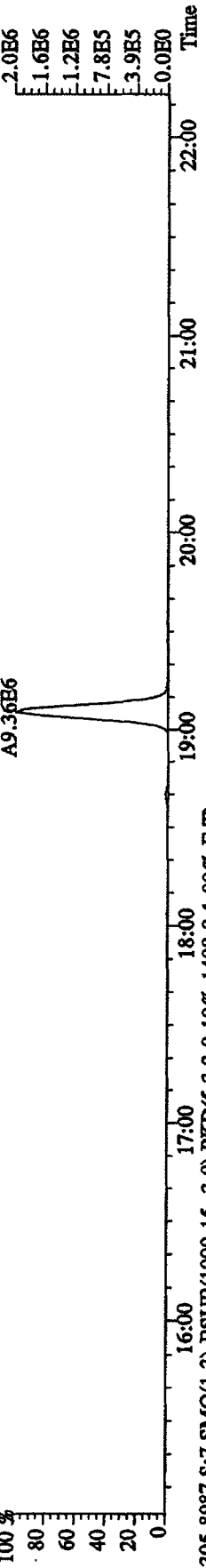


File:12AP104D5 #1-435 Acq:12-APR-2010 13:00:53 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#7 Text:ST0412E :2nd Source 09DXN449 Exp:DIOXINRES8290A

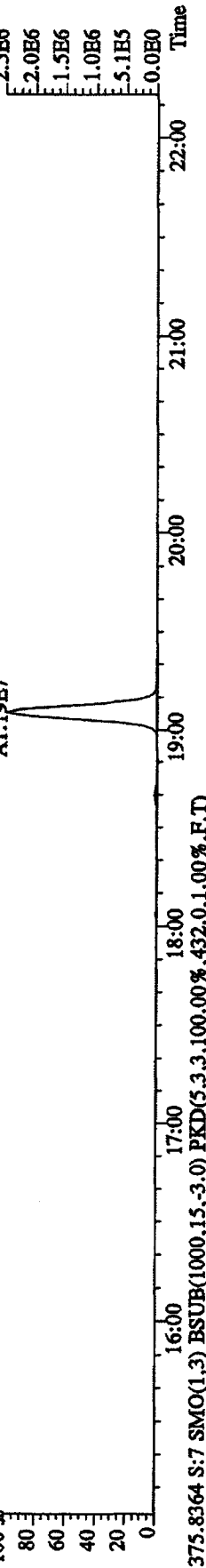
354.9792 S:7 SMO(1.3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100% 15:13 15:36 15:59 16:26 17:06 17:33 18:07 18:36 19:29 20:09 20:39 21:25 21:47



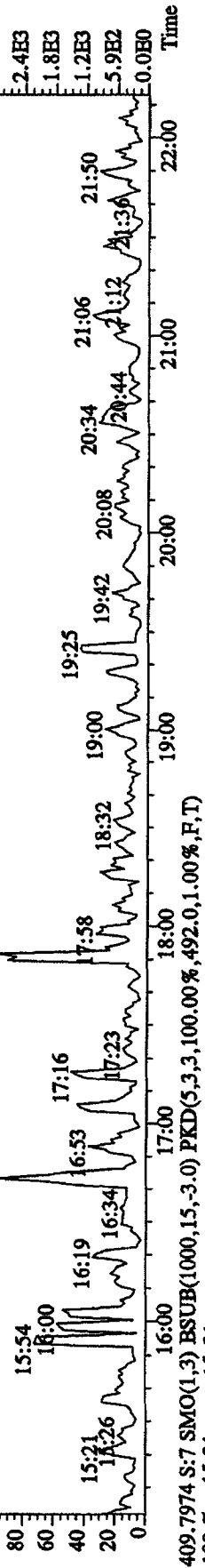
303.9016 S:7 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1128.0,1.00%,F,T)



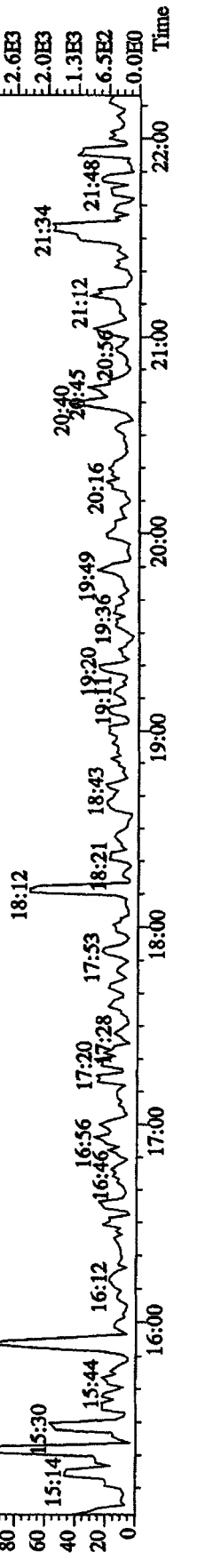
305.8987 S:7 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1408.0,1.00%,F,T)



375.8364 S:7 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,432.0,1.00%,F,T)



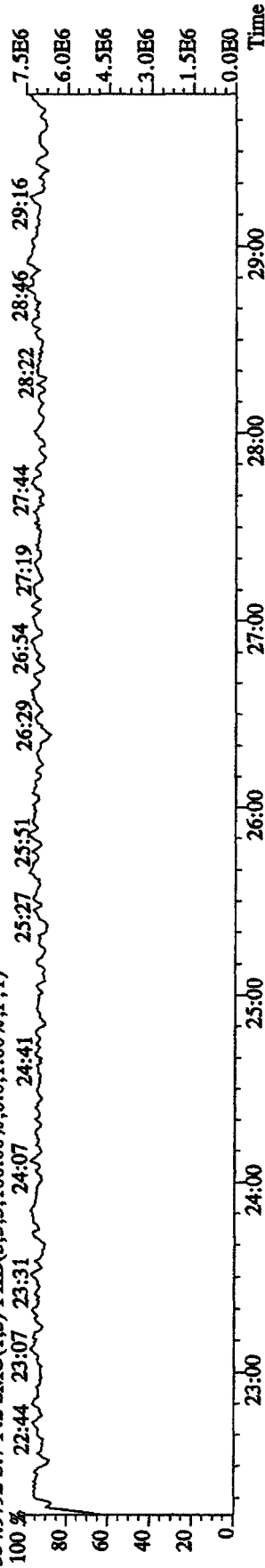
409.7974 S:7 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,492.0,1.00%,F,T)



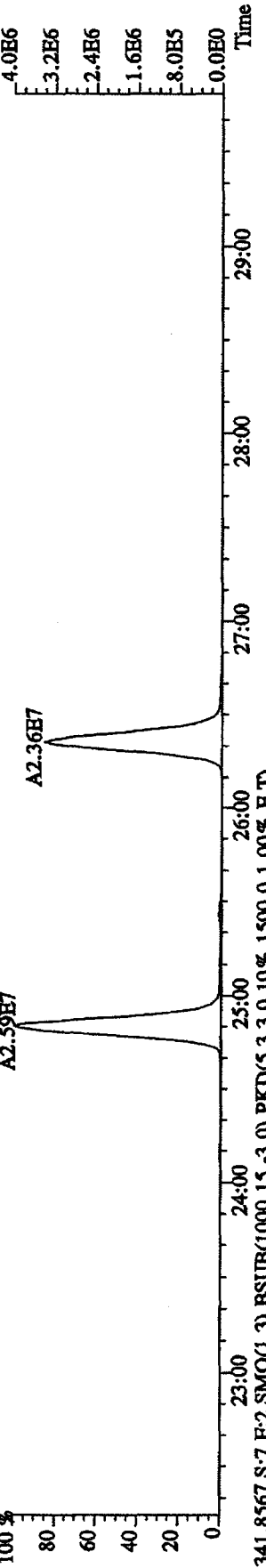
File: 12AP104D5 #1-604 Acq: 12-APR-2010 13:00:53 GC EI+ Voltage SIR Autospec-UltimaB

Sample#7 Text: STU412E :2nd Source 09DXN449 Exp: DIOXINRES8290A

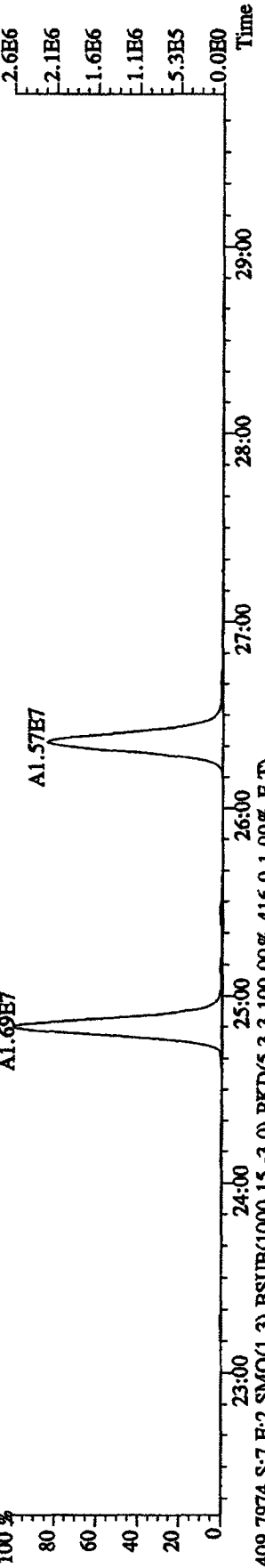
354.9792 S:7 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



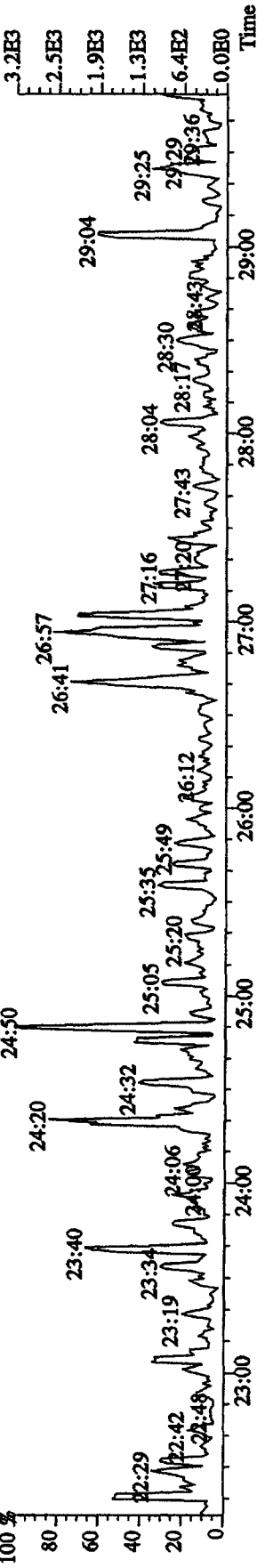
339.8597 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2008.0,1.00%,F,T)



341.8567 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1500.0,1.00%,F,T)



409.7974 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,416.0,1.00%,F,T)



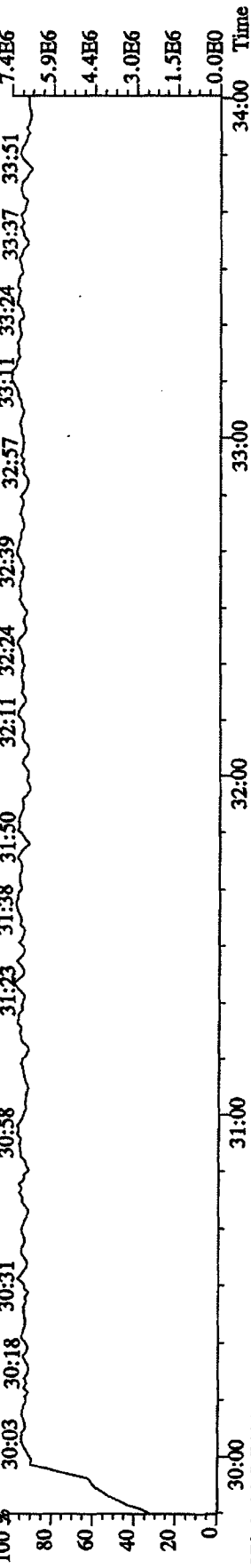


File:12AP104D5 #1-317 Acq:12-APR-2010 13:00:53 GC EI+ Voltage SIR Autospec-UltimaB

Sample#7 Text:ST0412E :2nd Source 09DXN449 Exp:DIOXINRES8290A

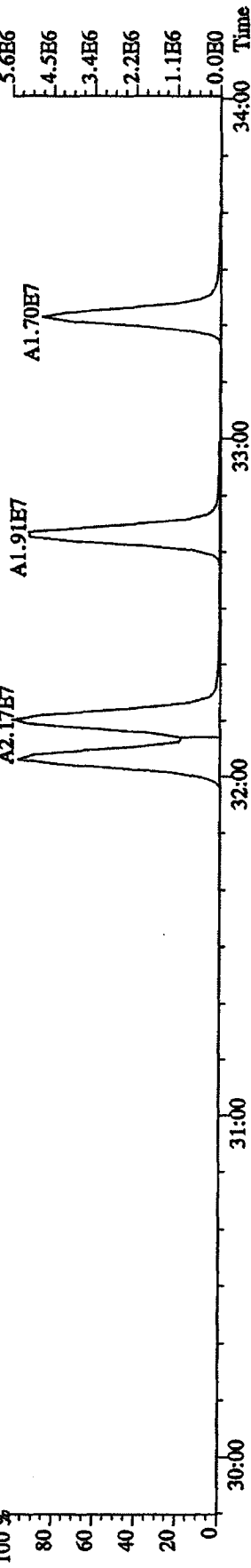
430.9728 S:7 F:3 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)

100 % 30:03 30:18 30:31 30:58 31:23 31:38 31:50 32:11 32:24 32:39 32:57 33:11 33:24 33:37 33:51 7.4E6



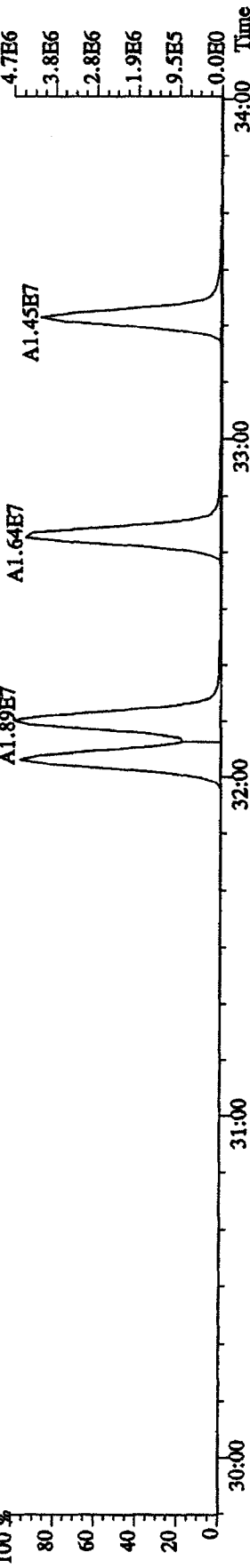
375.8208 S:7 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1044,0,1.00%,F,T)

100 % 30:00 31:00 32:00 33:00 34:00 Time 5.6E6 4.5E6 3.4E6 2.2E6 1.1E6 0.0E0



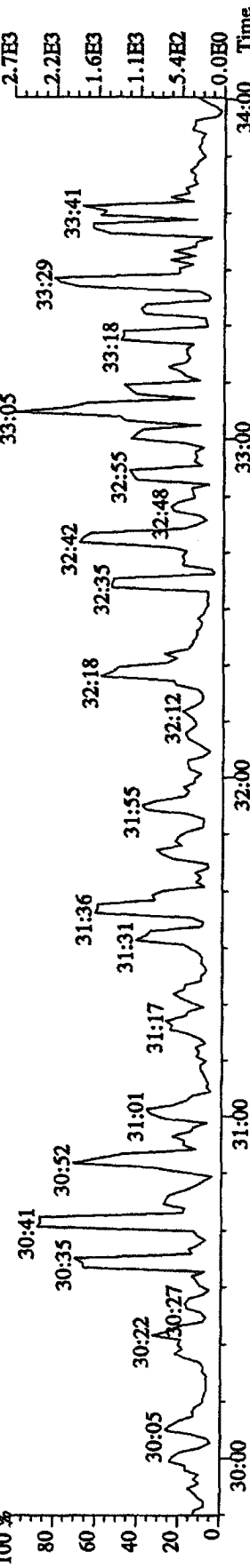
375.8178 S:7 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1144,0,1.00%,F,T)

100 % 30:00 31:00 32:00 33:00 34:00 Time 4.7E6 3.8E6 2.8E6 1.9E6 0.9E5 0.0E0

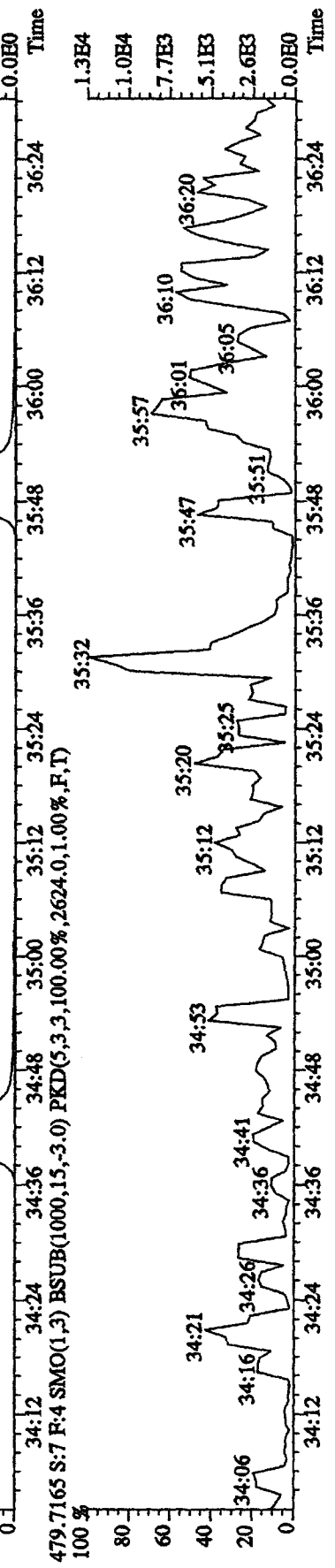
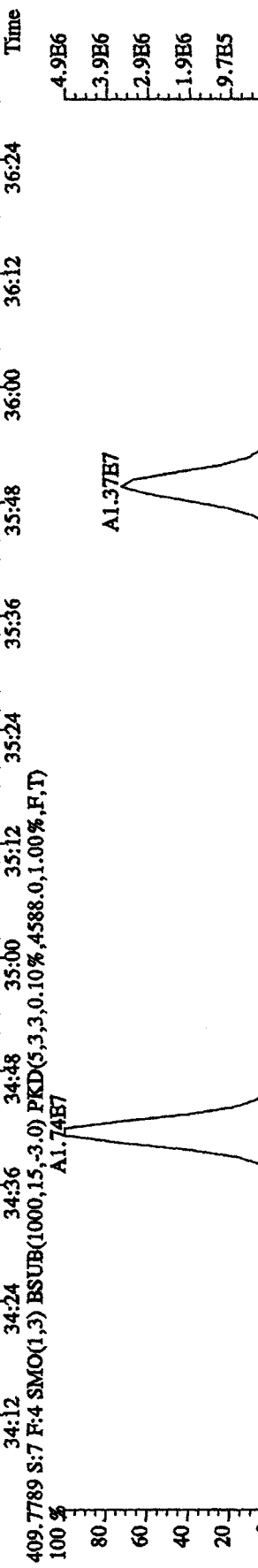
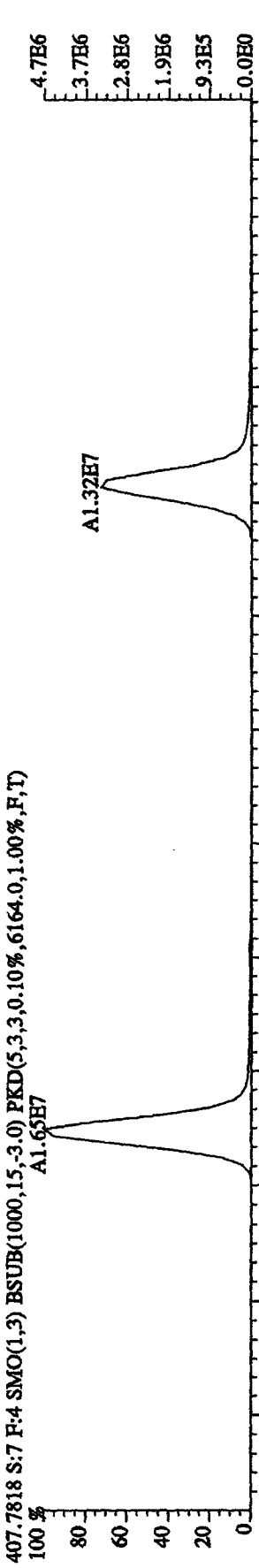
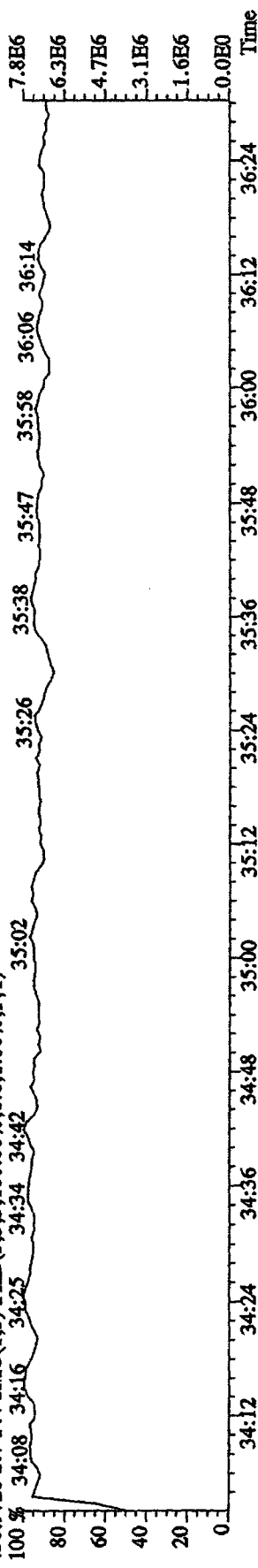


445.7555 S:7 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,452,0,1.00%,F,T)

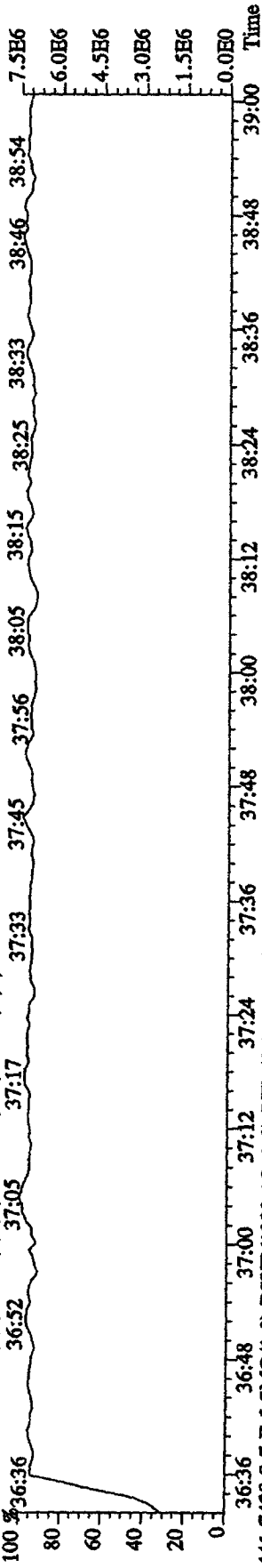
100 % 30:00 31:00 32:00 33:00 34:00 Time 2.7E3 2.2E3 1.6E3 1.1E3 0.5E2 0.0E0



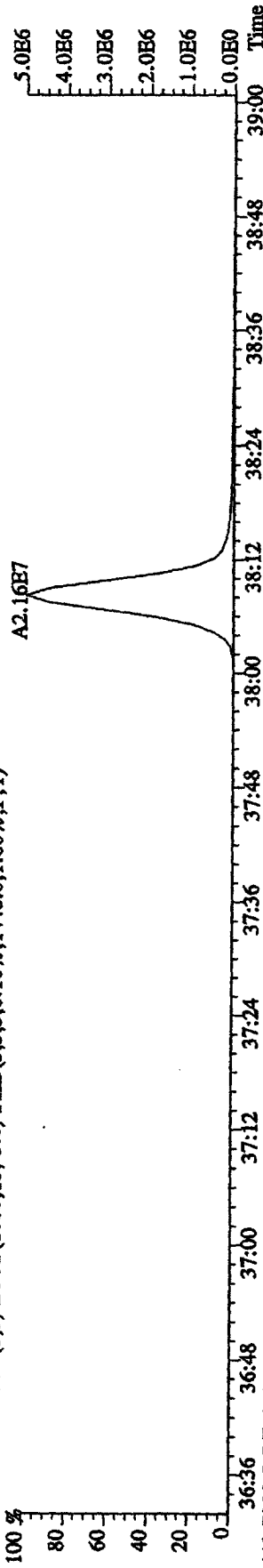
File:12AP104D5 #1-198 Acq:12-APR-2010 13:00:53 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#7 Text:ST0412E :2nd Source 09DXN449 Exp:DIOXINRES8290A  
 430.9728 S:7 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



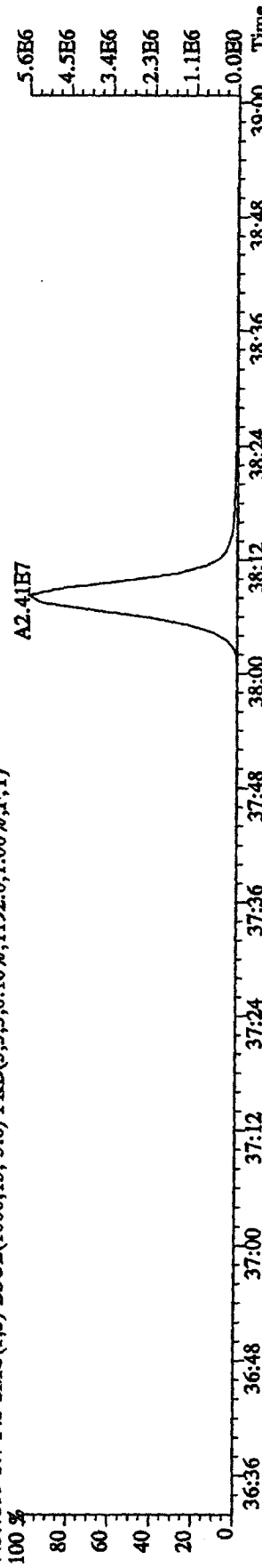
File: 12AP104D5 #1-191 Acq: 12-APR-2010 13:00:53 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#7 Text: ST0412E : 2nd Source 09DXN449 Exp: DIOXINRES8290A  
 442.9728 S: 7 F: 5 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)  
 100 % 36:36 36:52 37:05 37:17 37:33 37:45 37:56 38:05 38:15 38:25 38:33 38:46 38:54



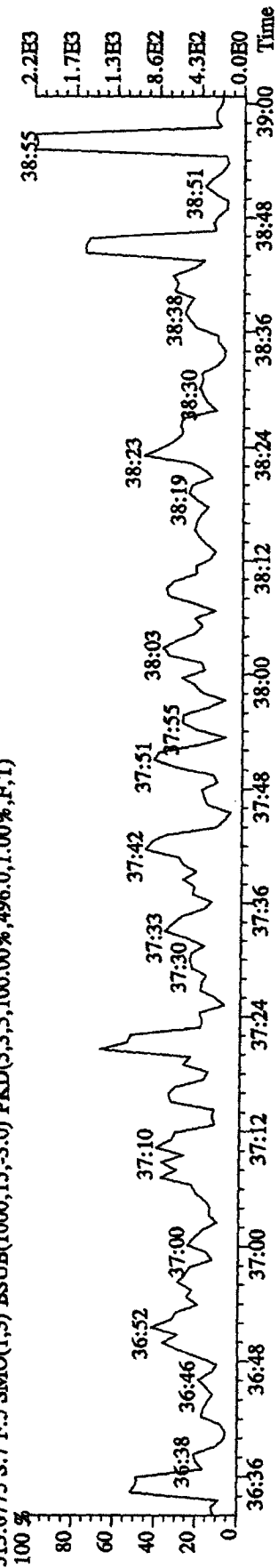
441.7428 S: 7 F: 5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1448.0,1.00%,F,T)  
 100 % 36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00



443.7399 S: 7 F: 5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1192.0,1.00%,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



513.6775 S: 7 F: 5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,496.0,1.00%,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



Sample Extraction/Preparation Log  
Copies and Checklists

**TestAmerica West Sacramento  
High Resolution Prep Log  
Dioxin/Furan AQ Extraction**

Batch: 0106252  
MS Run #: 4/16/2010  
Prep Date: 4/16/2010

Shared QC Batch: SAME  
Shares QC With: NA

Box # 73

Internal COC:	
Delivered to Inst.:	04/20/10 TL
Inst Receipt:	

Method: IN 8290  
Matrix: I WATER  
Extraction: 09 LIQ/LIQ, SEP FUNNEL (PAH,P/P,TPH,Dioxin) - Nominal  
QC: 01 STANDARD TEST SET  
SAC: IN - I - 09 - 01

Prep Reagents		
Reagent	Supplier	Lot #
DCM	Baker	206507
Hexane	Baker	H3FEH
H2SO4	Baker	NA
20% DCM:Hexane	NA	3630-533
65% DCM:Hexane	NA	3630-534
1:1 DCM:Cyclohexane	NA	NA
75:20:5	NA	NA
DCM:Hexane:Benzene	NA	NA
Silica Gel	Wako	MA12274
Acid Alumina	MA	19
5% Carbon:Silica Gel	NA	NA

**Extraction Table**

Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size	Bottle + Sample Weight	Empty Bottle Weight	Final Volume		Analysis Hold Time Expires	Extraction ID	Round Bottom ID	Rotovap ID
							20uL	Other				
G0D100465 - 1		LXTA21A2	5/8/2010	960.4	1369.7	1119.3	✓		5/31/2010	523	R216	7
G0D100465 - 2		LXTA31AD	5/8/2010	963.7	1370.1	1119.4	✓		5/31/2010	NA	R2096	5
G0D100465 - 3		LXTA41AD	5/8/2010	961.7	1366.0	1119.3	✓		5/31/2010	514	R166	7
G0D100465 - 4		LXTA51AD	5/8/2010	984.7	1395.9	1119.0	✓	X.V.	5/31/2010	NA	R226	5
G0D140559 - 1		LX0W01AA	5/13/2010	659.0	1555.4	1116.9	100uL	04/20/10	5/31/2010	520	R216	7
G0D140559 - 2		LX0W11AA	5/13/2010	658.5	1554.7	1116.2	100uL		5/31/2010	518	R2096	5
G0D160000 - 252	B	LX3LL1AA	5/13/2010	600.0	NA	NA	100uL		5/31/2010	NA	R236	5
G0D160000 - 252	C	LX3LL1AC	5/13/2010	600.0	NA	NA	100uL		5/31/2010	NA	R236	7
G0D160000 - 252	L	LX3LL1AD	5/13/2010	600.0	NA	NA	100uL		5/31/2010	NA	R196	5

\* See attached sheet for sample volumes recorded from scale

Comments/NCMs: 4 MB, LCS, LCSD, GOD140559-1,2 has 1C.C per 04DYN358 R.S. T.L 04/20/10

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Internal Standard All Samples	10DYN110	10/31/10	BGS	AS	4/16/10
Spike Mix LCS/LCSD/MS/MS	50.10DYN1103	3/9/11	BGS	AS	4/16/10
Cleanup Standard All Samples	10DYN1103	4/12/2011	J	AS	4/19/2010
Recovery Standard All Samples	10DYN358	11/19/2010	J	T.L	04/20/2010
Liq Liq Extraction Analyst/Date	BGS 4/16/10				
		Split/Archive Analyst/Date	Option C Analyst/Date	IFB Analyst/Date	D2 Analyst/Date
		—	—	GMS 4/19/2010	—

- Expanded Deliverable
- COC Completed
- Bench Sheet Copied
- Package Submitted to Analytical Group
- Bench Sheet Copied per COC

\*\*\*\*\*  
\* QC BATCH: 0113332 \*  
\* PREP DATE: 4/20/10 \*  
\* COMP DATE: 4/20/10 \*  
\*\*\*\*\*

Weights/Volumes  
Spike & Surrogate Worksheet  
Vial contains correct volume  
Labels, greenbars, worksheets  
computer batch: correct & all match  
Anomalies to Extraction Method

Extractionist: \_\_\_\_\_  
Concentrationist: \_\_\_\_\_

Reviewer/Date: \_\_\_\_\_ / 0/00/00  
Dioxins/Furans, HRGC/HRMS (8290)  
LIQ/LIQ, SEP FUNNEL (PAH,P/P,TPH,Dioxin) - Nominal

EXTR	ANL	LOT#	MSRUN#/ WORK ORDER	TEST	EXT	MTH	MATRIX	INIT	ADJ1	ADJ2	EXTRACTION	VOL	EXCHANGE	VOL	SOLVENTS	PH'S	SPIKE STANDARD/ SURROGATE ID
5/13/10	4/22/10	G0D140559-001	LX0W0-1-AA	R	09	IN	WATER	NA	NA	NA	DCM	300.0	C-14	100.0	300.0	NA	1.0 ML 10DXN110 IS
COMMENTS: 1059mL 10.00uL																	
5/13/10	4/22/10	G0D140559-002	LX0W1-1-AA	R	09	IN	WATER	NA	NA	NA	DCM	300.0	C-14	100.0	300.0	NA	1.0 ML 10DXN110 IS
COMMENTS: 1058.5mL 10.00uL																	
5/13/10	0/00/00	G0D230000-332	L0FH2-1-AAB		09	IN	WATER	NA	NA	NA	DCM	300.0	C-14	100.0	300.0	NA	1.0 ML 10DXN110 IS
COMMENTS: 1000mL 10.00uL																	
5/13/10	0/00/00	G0D230000-332	L0FH2-1-ACC		09	IN	WATER	NA	NA	NA	DCM	300.0	C-14	100.0	300.0	NA	1.0 ML 10DXN110 IS
COMMENTS: 1000mL 10.00uL																	
5/13/10	0/00/00	G0D230000-332	L0FH2-1-ADL	R	09	IN	WATER	NA	NA	NA	DCM	300.0	C-14	100.0	300.0	NA	1.0 ML 10DXN110 IS
COMMENTS: 1000mL 10.00uL																	

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

NUMBER OF WORK ORDERS IN BATCH: 5

## Preparation Data Review Checklist

Prep Batch(es) 0106252

Test: 8295

Prep Date: 4/16/10

Holding Times: 5/8/10 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>B. Weights and Volumes</b>		
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	/
<b>C. Standards and Reagents</b>		
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	/
<b>D. Documentation</b>		
1. Are all nonconformances documented appropriately?	NA	/
2. QuantIMs entry correct, including dates and times.	NA	/
3. Are all fields completed?	NA	/

Spike witness: Mal McMurry

Date: 4/16/10

2<sup>nd</sup> Level Reviewer: SL

Date: 4/20/10

Comments:

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**Data Checklist**  
**HRGCMS/LRGCMS Analyses**

THE LEADER IN ENVIRONMENTAL TESTING

Batch #: 0113332

Method ID: 8290

Data Analyst: 820 DB-5  
 Date initiated: 04/23/10  
 Reviewer: M. S. S. E. Y.  
 Date reviewed: 4/25/2010

DB-225  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

QA/QC verification:

	<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?	⓪	⓪		
-Other QC (Dup,MS,SD) within specs?*	NA	NA		

Sample Analysis:

	<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?	NA	NA		
-Have dilution calculations been verified?	NA	NA		
-Has a manual calculation for the sequence(s) been verified?	/	✓		
-Are retention times (RT) correct?	/	✓		
-Manual integrations checked?	/	✓		

**Comments:** (Use other side if necessary)

⓪ See NAM

\* Recovery limits:

NCASI 551:	40-120%***
Method 8290:	40-135%***
Method 1613:	25-150%***
Method 23:	40-130%***(CI4-CI6), 25-130%(CI7-8), 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 ≥ 10:1 and DL's are <LCL for target analytes.