

September 30, 2010

**TestAmerica Project Number: G0I230491**  
PO/Contract: 2027.07

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

Dear Mr. Splitter,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on September 23, 2010. These samples are associated with your Tronox Henderson - Air Monitoring project.

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

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

Sincerely,



DAVID R. ALLTUCKER  
Project Manager

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## Case Narrative

### TestAmerica West Sacramento Project Number G0I230491

#### **AIR, TO-9, Dioxins/Furans**

Sample(s): 1, 3, 5, 7, 13, 15, 17, 19

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

The laboratory control sample (LCS) and the duplicate laboratory control sample (DCS) associated with this extraction batch have recoveries for 1,2,3,7,8,9 HxCDF above the established control limits indicating a high bias. As the above samples are non-detect for this compound there is no adverse impact upon the data.

Sample(s): 3, 7, 15, 19

The result for 2, 3, 7, 8-TCDF is reported from the confirmation analysis that occurred on September 29, 2010.

#### **AIR, TO-13, Semivolatile Organics**

Sample(s): 2, 4, 6, 8, 14, 16, 18, 20

The recoveries for the pre-spiked surrogate 1,2-Dichlorobenzene-d4 in the samples were low and outside criteria. The pre-spiked surrogate was added to the media to monitor the sampling efficiency. This surrogate also added to the method blank (MB) to monitor the extraction efficiency. The surrogate recovery in the (MB) is in control indicating that the extraction and analytical method are in control. The results may be biased low. This anomaly is most likely matrix related. The matrix effect was confirmed by re-analysis confirms.

The recovery for the surrogate 2,4,6-Tribromophenol is above the stated control limits for the samples listed below. 2,4,6-Tribromophenol is not a controlled surrogate, therefore, the data is not impacted.

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 G0I230491

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
L7DQH	1	UW-09202010B	9/20/2010 02:27 PM	9/23/2010 09:50 AM
L7DQK	2	UW-09202010B	9/20/2010 02:28 PM	9/23/2010 09:50 AM
L7DQM	3	DW-09202010B	9/20/2010 02:49 PM	9/23/2010 09:50 AM
L7DQN	4	DW-09202010B	9/20/2010 02:48 PM	9/23/2010 09:50 AM
L7DQP	5	UW-09212010B	9/21/2010 02:09 PM	9/23/2010 09:50 AM
L7DQQ	6	UW-09212010B	9/21/2010 02:10 PM	9/23/2010 09:50 AM
L7DQR	7	DW-09212010B	9/21/2010 02:29 PM	9/23/2010 09:50 AM
L7DQT	8	DW-09212010B	9/21/2010 02:28 PM	9/23/2010 09:50 AM
L7DQ6	13	UW-09212010A	9/21/2010 04:02 AM	9/23/2010 09:50 AM
L7DQ9	14	UW-09212010A	9/21/2010 04:03 AM	9/23/2010 09:50 AM
L7DRA	15	DW-09212010A	9/21/2010 04:34 AM	9/23/2010 09:50 AM
L7DRC	16	DW-09212010A	9/21/2010 04:35 AM	9/23/2010 09:50 AM
L7DRF	17	UW-09222010A	9/22/2010 04:03 AM	9/23/2010 09:50 AM
L7DRG	18	UW-09222010A	9/22/2010 04:04 AM	9/23/2010 09:50 AM
L7DRH	19	DW-09222010A	9/22/2010 04:30 AM	9/23/2010 09:50 AM
L7DRJ	20	DW-09222010A	9/22/2010 04:31 AM	9/23/2010 09:50 AM

#### Notes(s):

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

**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

Lab Name: <b>Treat America Laboratories Inc</b>		Required Project Information: Site ID #: <b>102</b> TRONOX LLC - HENDERSON		Required Invoice Information: Send Invoice to: <b>Suehn Crowley Tronox LLC.</b>		COC # <b>2027.07.00018</b>		Total # of Samples: <b>4</b>		Event Complete?				
Address: <b>880 Riverside Parkway</b>		Project # <b>2027.07</b>		Address: <b>PO Box 55</b>		Regular		Rush		5 day Mark One				
City: <b>West Sacramento, CA 95605</b>		Site Address: <b>1680 W Lake Mead Pkwy</b>		City/State: <b>Henderson, NV 89009</b>		Phone #: <b>(949) 260-9293</b>								
Lab PM: <b>David Allucker</b>		City: <b>Henderson</b>		State, Zip: <b>NV, 89015</b>		PO #:								
Phone/Fax: <b>(916) 373-5800</b>		Site PM: <b>Ted Spiller</b>		Send EDD to: <b>Frank.Hagar@ngem.com</b>										
Lab PM Email: <b>David.Allucker@treatamericainc.com</b>		Phone/Fax: <b>(610) 432-4609</b>		CC Hardcopy report to: <b>PDF Electronic Version Only - FTP Upload</b>										
Applicable Lab Order #:		Site PM Email: <b>Ted.Spiller@ngem.com</b>		See Additional Comments Below										
ITEM #	SAMPLE ID Sample IDs MUST BE UNIQUE	SAMPLE LOCATION	MATRIX CODE	G-RAB C-COMP	SAMPLE TYPE	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	Comments/Lab Sample I.D.	Analysis	Temp in OC	Samples on ice?	Sample Intact?	Top Blank?
	UW-09212010A		AA			9/21/2010	4:02 AM	1		X				
	UW-09212010A		AA			9/21/2010	4:03 AM	1		X				
	DW-09212010A		AA			9/21/2010	4:34 AM	1		X				
	DW-09212010A		AA			9/21/2010	4:35 AM	1		X				
	UW-09222010A		AA			9/22/2010	4:03 AM	1		X				
	UW-09222010A		AA			9/22/2010	4:04 AM	1		X				
	DW-09222010A		AA			9/22/2010	4:30 AM	1		X				
	DW-09222010A		AA			9/22/2010	4:31 AM	1		X				
Additional Comments/Special Instructions: <i>Handwritten: 9/22/10 1003 SC</i> <i>Handwritten: C. Lengler TALS 9/23/10</i> <i>Handwritten: 22 Sept 2010 5:55 AM</i>														
SHIPMENTS INFO										SAMPLER NAME AND SIGNATURE Chris Gary <i>Handwritten: Chris Gary</i>				
PRINT NAME OF SAMPLER										TIME				

Received  
9/23

**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate

COC # 2027.07.0009\_ Revised 9/23/10  
 Total # of Samples: 6 Event Complete?

Required Project Information:		Required Invoice Information:		Required Project Information:		Required Invoice Information:														
Lab Name	Test America Laboratories Inc	Site ID #	102	TRONOX LLC, HENDERSON	Send Invoice to	Susan Crowley Tronox LLC.														
Address	860 Riverside Parkway West Sacramento, CA 95605	Project #	2027.07	Address	PO Box 55															
Lab Pk.	David Alkucker	City	Henderson	City/State	Henderson, NV 89009	Phone #:	(949) 260-9293													
Phone/Fac	(916) 373-5600	State, Zip	NV, 89015	PO #																
Lab Pk Email	David.Alkucker@testamericainc.com	Site Pk Name	Test Splitter	Send EDD to	Frank.Hagan@ngem.com															
Applicable Lab Quote #:		Phone/Fac	(510) 433-4699	CC Hardcopy report to	PDF Electronic Version Only -- FTP Upload															
		Site Pk Email:	Test.Splitter@ngem.com	CC Hardcopy report to	See Additional Comments Below															
ITEM #	SAMPLE ID Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	MATRIX CODE	G-GRAB C-COMP	SAMPLE TYPE	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	Comments/Lab Sample I.D.	Analysis	Preservative	Regular	Rush	5 day	Mark One	Temp in OC	Samples on	Sample	Intact?	Temp Blank?
UW-0922010B			AA			9/20/2010	2:27 PM	1	365.51 m3	X										
UW-0922010B			AA			9/20/2010	2:28 PM	1	363.94 m3	X										
DW-0922010B			AA			9/20/2010	2:49 PM	1	384.73 m3	X										
DW-0922010B			AA			9/20/2010	2:48 PM	1	366.3 m3	X										
UW-09212010B			AA			9/21/2010	2:09 PM	1	368.88 m3	X										
UW-09212010B			AA			9/21/2010	2:10 PM	1	370.77 m3	X										
DW-09212010B			AA			9/21/2010	2:29 PM	1	366.85 m3	X										
DW-09212010B			AA			9/21/2010	2:28 PM	1	361.13 m3	X										
UW-09222010B			AA			9/22/2010	2:23 PM	1	364.04 m3; HOLD	H										
UW-09222010B			AA			9/22/2010	2:24 PM	1	364.04 m3; HOLD	H										
DW-09222010B			AA			9/22/2010	2:47 PM	1	376.9 m3; HOLD	H										
DW-09222010B			AA			9/22/2010	2:50 PM	1	378.73 m3; HOLD	H										

Additional Comments/Special Instructions:

RELINQUISHED BY / AFFILIATION: \_\_\_\_\_ DATE / TIME: \_\_\_\_\_ ACCEPTED BY / AFFILIATION: \_\_\_\_\_ DATE / TIME: \_\_\_\_\_

SHIPPING INFO: \_\_\_\_\_

SAMPLER NAME AND SIGNATURE: \_\_\_\_\_

Signature of Sampler: \_\_\_\_\_ DATE Signed: \_\_\_\_\_



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

**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

Lab Name: Test America Laboratories Inc		Required Project Information:		Required Invoice Information:		Event Complete?												
Address: 880 Riverside Parkway		Site ID # 102	TRONOX LLC, HENDERSON	Send Invoice to	Susan Crowley Tronox LLC.	COC # 2027.07.0009												
Project #		2027.07		PO Box #5		Total # of Samples: 6												
Site Address		560 W Lake Mead Pkwy		City/State	Henderson, NV 89009	Phone #: (848) 260-9293												
City		Henderson		State, Zip	NV, 89016	PO #												
Site PM Name		Ted Splitter		Send EDD to	Frank.Hagar@ngem.com													
Phone/Fax		(916) 373-5800		CC Harcopy report to	PDF Electronic Version Only - FTP Upload													
Lab PM email		David.Alluicker@tastamericallab.com		CC Harcopy report to	See Additional Comments Below													
Applicable Lab Quote #:				Site PM Email	Ted.Splitter@ngem.com													
ITEM #	SAMPLE ID Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	MATRIX CODE	G-GRAB C-COMP	SAMPLE TYPE	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	Comments/Lab Sample I.D.	Analysts	Preservative	Regular	Rush	5 day Mark One	Temp in OC	Samples on Ice?	Sample Inlet?	Trp Blank?
	LW-0922010B		AA			9/20/2010	2:27 PM	1										
	LW-09202010B		AA			9/20/2010	2:28 PM	1										
	DW-09202010B		AA			9/20/2010	2:49 PM	1										
	DW-09202010B		AA			9/20/2010	2:48 PM	1										
	LW-09212010B		AA			9/21/2010	2:09 PM	1										
	LW-09212010B		AA			9/21/2010	2:10 PM	1										
	LW-09212010B		AA			9/21/2010	2:29 PM	1										
	DW-09212010B		AA			9/21/2010	2:28 PM	1										
	LW-09222010B		AA			9/22/2010	2:23 PM	1										
	LW-09222010B		AA			9/22/2010	2:24 PM	1										
	DW-09222010B		AA			9/22/2010	2:47 PM	1										
	DW-09222010B		AA			9/22/2010	2:50 PM	1										
Additional Comments/Special Instructions:										09/22/10 - 1000 Cheryl Lee TRAVIS Date of Report: 9/22/10 Time: 1545								
SHIPPING INFO:										SIGNATURE OF SAMPLER: _____ PRINT NAME OF SAMPLER: Ronda Bailey SIGNATURE OF ANALYST: _____ DATE REPORT: 9/22/10 TIME: 1545								

CLIENT Northgate PM DA LOG # 67116

LOT# (QUANTIMS ID) G0I230491 QUOTE# 84067 LOCATION W14D

DATE RECEIVED 09/23/10 TIME RECEIVED 0950 Checked (✓)

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) \_\_\_\_\_

SHIPPING CONTAINER(S)  TAL  CLIENT  N/A

COC #(S) \_\_\_\_\_ See Multi Enter Checklist

TEMPERATURE BLANK Observed: \_\_\_\_\_ Corrected: \_\_\_\_\_

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: \_\_\_\_\_ Average \_\_\_\_\_ Corrected Average \_\_\_\_\_

LABORATORY THERMOMETER ID:

IR UNIT: #4  #5  OTHER \_\_\_\_\_

EV 09/23/10  
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  N/A   
APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES

CLOUSEAU  TEMPERATURE EXCEEDED (2 °C - 6 °C)<sup>\*1</sup>  N/A

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

EV 09/23/10  
Initials Date

Notes \_\_\_\_\_

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



CLIENT: Northgate LOT# (QUANTIMS ID): 601230491  
Checked (✓)

TEMPERATURE RECORD (IN °C) : IR 4  5  OTHER

COOLER ID 1

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) NA

COC #(S) 2027.07.0009

TEMPERATURE BLANK: OBSERVED: 1 CORRECTED 2

SAMPLE TEMPERATURE:

OBSERVED: NA AVERAGE: \_\_\_\_\_ CORRECTED \_\_\_\_\_

SAMPLES / TESTS (IF NCM REQUIRED): \_\_\_\_\_

TEMPERATURE RECORD (IN °C) IR 4  5  OTHER

COOLER ID 2

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) NA

COC #(S) 2027.07.0008

TEMPERATURE BLANK: OBSERVED: 2 CORRECTED 3

SAMPLE TEMPERATURE:

OBSERVED: NA AVERAGE: \_\_\_\_\_ CORRECTED \_\_\_\_\_

SAMPLES / TESTS (IF NCM REQUIRED): \_\_\_\_\_

TEMPERATURE RECORD (IN °C) IR 4  5  OTHER

COOLER ID \_\_\_\_\_

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) \_\_\_\_\_

COC #(S) \_\_\_\_\_

TEMPERATURE BLANK: OBSERVED: \_\_\_\_\_ CORRECTED \_\_\_\_\_

SAMPLE TEMPERATURE:

OBSERVED: \_\_\_\_\_ AVERAGE: \_\_\_\_\_ CORRECTED \_\_\_\_\_

SAMPLES / TESTS (IF NCM REQUIRED): \_\_\_\_\_

Initials \_\_\_\_\_ Date \_\_\_\_\_

\* LEAVE NO SPACES BLANK. USE "N/A" IF NOT APPLICABLE. INITIAL AND DATE ALL "N/A" ENTRIES.

# AIR, TO-13, Semivolatile Organics



Northgate Environmental Management, Inc.

Sample ID: UW-09202010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G01230491 - 001  
 Date Sampled....: 09/20/10  
 Prep Date....: 09/23/10  
 Prep Batch # ....: 0266392  
 Initial Wgt/Vol : 1 Sample

Work Order #....: L7DQH1AA  
 Date Received....: 09/23/10  
 Analysis Date....: 09/27/10  
 Dilution Factor....: 1  
 Analyst ID....: Sonia Ouni

Matrix....: AA  
 Instrument ID....: 1D5  
 Volume....: 385.51  
 Units....: pg/m3

PARAMETER	RESULT	REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND	20	1.0	0
Total TCDD	ND	20		0
1,2,3,7,8-PeCDD	ND	100	1.0	0
Total PeCDD	ND	100		0
1,2,3,4,7,8-HxCDD	ND	100	0.1	0
1,2,3,6,7,8-HxCDD	ND	100	0.1	0
1,2,3,7,8,9-HxCDD	ND	100	0.1	0
Total HxCDD	ND	100		0
1,2,3,4,6,7,8-HpCDD	14 J B	100	0.01	0.00036
Total HpCDD	14	100		
OCDD	14 J B	200	0.0003	0.000011
2,3,7,8-TCDF	2.3 J	20	0.1	0.00060
Total TCDF	4.7	20		
1,2,3,7,8-PeCDF	ND	100	0.03	0
2,3,4,7,8-PeCDF	ND	100	0.3	0
Total PeCDF	ND	100		0
1,2,3,4,7,8-HxCDF	ND	100	0.1	0
1,2,3,6,7,8-HxCDF	2.8 J B	100	0.1	0.00073
2,3,4,6,7,8-HxCDF	ND	100	0.1	0
1,2,3,7,8,9-HxCDF	ND	100	0.1	0
Total HxCDF	2.8	100		
1,2,3,4,6,7,8-HpCDF	9.4 J Q B	100	0.01	0.00024
1,2,3,4,7,8,9-HpCDF	4.0 J B	100	0.01	0.00010
Total HpCDF	18	100		
OCDF	14 J B	200	0.0003	0.000011
<b>Total TEQ Concentration</b>				<b>0.0021</b>

Northgate Environmental Management, Inc.

Sample ID: UW-09202010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0I230491 - 001  
Date Sampled....: 09/20/10  
Prep Date....: 09/23/10  
Prep Batch # ....: 0266392  
Initial Wgt/Vol: 1 Sample

Work Order #....: L7DQH1AA  
Date Received....: 09/23/10  
Analysis Date....: 09/27/10  
Dilution Factor....: 1  
Analyst ID....: Sonia Ouni

Matrix....: AA  
Instrument ID....: 1D5  
Volume....: 385.51  
Units....: pg/m3

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	97	50 - 120
13C-1,2,3,7,8-PeCDD	113	50 - 120
13C-1,2,3,6,7,8-HxCDD	78	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	77	40 - 120
13C-OCDD	79	40 - 120
13C-2,3,7,8-TCDF	89	50 - 120
13C-1,2,3,7,8-PeCDF	101	50 - 120
13C-1,2,3,4,7,8-HxCDF	75	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	61	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	111	50 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Notes:

WHO TEFs for human risk assessment based on the conclusions of the World Health Organization meeting in Geneva, Switzerland, June 2005

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

**Northgate Environmental Management, Inc.**

**Sample ID: UW-09202010B**

**Trace Level Compounds**

<b>Lot - Sample #....:</b> G0I230491 - 001	<b>Work Order #....:</b> L7DQH1AA	<b>Matrix....:</b> AA
<b>Date Sampled....:</b> 09/20/10	<b>Date Received....:</b> 09/23/10	<b>Dilution Factor....:</b> 1
<b>Prep Date....:</b> 09/23/10	<b>Analysis Date....:</b> 09/27/10	<b>Volume....:</b> 385.51
<b>Prep Batch # ....:</b> 0266392	<b>Instrument ID....:</b> 1D5	<b>Method....:</b> EPA-2 TO-9
<b>Initial Wgt/Vol....:</b> 1 Sample	<b>Analyst ID....:</b> Sonia Ouni	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND	0.052	0.0034	pg/m3
Total TCDD	ND	0.052	0.0034	pg/m3
1,2,3,7,8-PeCDD	ND	0.26	0.0049	pg/m3
Total PeCDD	ND	0.26	0.022	pg/m3
1,2,3,4,7,8-HxCDD	ND	0.26	0.011	pg/m3
1,2,3,6,7,8-HxCDD	ND	0.26	0.011	pg/m3
1,2,3,7,8,9-HxCDD	ND	0.26	0.0091	pg/m3
Total HxCDD	ND	0.26	0.011	pg/m3
<b>1,2,3,4,6,7,8-HpCDD</b>	<b>0.036 J B</b>	<b>0.26</b>	<b>0.011</b>	<b>pg/m3</b>
<b>Total HpCDD</b>	<b>0.036</b>	<b>0.26</b>	<b>0.011</b>	<b>pg/m3</b>
<b>OCDD</b>	<b>0.036 J B</b>	<b>0.52</b>	<b>0.016</b>	<b>pg/m3</b>
<b>2,3,7,8-TCDF</b>	<b>0.0060 J</b>	<b>0.052</b>	<b>0.0024</b>	<b>pg/m3</b>
<b>Total TCDF</b>	<b>0.012</b>	<b>0.052</b>	<b>0.0024</b>	<b>pg/m3</b>
1,2,3,7,8-PeCDF	ND	0.26	0.0031	pg/m3
2,3,4,7,8-PeCDF	ND	0.26	0.0034	pg/m3
Total PeCDF	ND	0.26	0.015	pg/m3
1,2,3,4,7,8-HxCDF	ND	0.26	0.0083	pg/m3
<b>1,2,3,6,7,8-HxCDF</b>	<b>0.0073 J B</b>	<b>0.26</b>	<b>0.0067</b>	<b>pg/m3</b>
2,3,4,6,7,8-HxCDF	ND	0.26	0.0073	pg/m3
1,2,3,7,8,9-HxCDF	ND	0.26	0.0073	pg/m3
<b>Total HxCDF</b>	<b>0.0073</b>	<b>0.26</b>	<b>0.0083</b>	<b>pg/m3</b>
<b>1,2,3,4,6,7,8-HpCDF</b>	<b>0.025 J Q B</b>	<b>0.26</b>	<b>0.0075</b>	<b>pg/m3</b>
<b>1,2,3,4,7,8,9-HpCDF</b>	<b>0.010 J B</b>	<b>0.26</b>	<b>0.0086</b>	<b>pg/m3</b>
<b>Total HpCDF</b>	<b>0.048</b>	<b>0.26</b>	<b>0.0080</b>	<b>pg/m3</b>
<b>OCDF</b>	<b>0.035 J B</b>	<b>0.52</b>	<b>0.0096</b>	<b>pg/m3</b>

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	97	50 - 120
13C-1,2,3,7,8-PeCDD	113	50 - 120
13C-1,2,3,6,7,8-HxCDD	78	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	77	40 - 120
13C-OCDD	79	40 - 120
13C-2,3,7,8-TCDF	89	50 - 120
13C-1,2,3,7,8-PeCDF	101	50 - 120
13C-1,2,3,4,7,8-HxCDF	75	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	61	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	111	50 - 120

**Northgate Environmental Management, Inc.**

**Sample ID: UW-09202010B**

**Trace Level Compounds**

<b>Lot - Sample #....:</b>	G0I230491 - 001	<b>Work Order #....:</b>	L7DQH1AA	<b>Matrix....:</b>	AA
<b>Date Sampled....:</b>	09/20/10	<b>Date Received....:</b>	09/23/10	<b>Dilution Factor....:</b>	1
<b>Prep Date....:</b>	09/23/10	<b>Analysis Date....:</b>	09/27/10	<b>Volume....:</b>	385.51
<b>Prep Batch # ....:</b>	0266392	<b>Instrument ID....:</b>	1D5	<b>Method....:</b>	EPA-2 TO-9
<b>Initial Wgt/Vol....:</b>	1 Sample	<b>Analyst ID....:</b>	Sonia Ouni		

**QUALIFIERS**

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

Northgate Environmental Management, Inc.

Sample ID: DW-09202010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0I230491 - 003  
 Date Sampled....: 09/20/10  
 Prep Date....: 09/23/10  
 Prep Batch # ....: 0266392  
 Initial Wgt/Vol : 1 Sample

Work Order #....: L7DQM1AA  
 Date Received....: 09/23/10  
 Analysis Date....: 09/27/10  
 Dilution Factor....: 1  
 Analyst ID....: Sonia Ouni

Matrix....: AA  
 Instrument ID....: 1D5  
 Volume....: 384.73  
 Units....: pg/m3

PARAMETER	RESULT	REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	2.6 J Q	20	1.0	0.0068
Total TCDD	47	20		
1,2,3,7,8-PeCDD	7.3 J	100	1.0	0.019
Total PeCDD	21	100		
1,2,3,4,7,8-HxCDD	4.8 J	100	0.1	0.0012
1,2,3,6,7,8-HxCDD	11 J	100	0.1	0.0029
1,2,3,7,8,9-HxCDD	13 J B	100	0.1	0.0034
Total HxCDD	65	100		
1,2,3,4,6,7,8-HpCDD	49 J B	100	0.01	0.0013
Total HpCDD	74	100		
OCDD	47 J B	200	0.0003	0.000037
2,3,7,8-TCDF	78 CON	20	0.1	0.020
Total TCDF	630	20		
1,2,3,7,8-PeCDF	110	100	0.03	0.0086
2,3,4,7,8-PeCDF	42 J	100	0.3	0.033
Total PeCDF	400	100		
1,2,3,4,7,8-HxCDF	180 B	100	0.1	0.047
1,2,3,6,7,8-HxCDF	150 B	100	0.1	0.039
2,3,4,6,7,8-HxCDF	37 J	100	0.1	0.0096
1,2,3,7,8,9-HxCDF	29 J B	100	0.1	0.0075
Total HxCDF	820	100		
1,2,3,4,6,7,8-HpCDF	670 B	100	0.01	0.017
1,2,3,4,7,8,9-HpCDF	250 B	100	0.01	0.0065
Total HpCDF	1300	100		
OCDF	1400 B	200	0.0003	0.0011
<b>Total TEQ Concentration</b>				<b>0.22</b>

Northgate Environmental Management, Inc.

Sample ID: DW-09202010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G01230491 - 003	Work Order #....:	L7DQM1AA	Matrix....:	AA
Date Sampled....:	09/20/10	Date Received....:	09/23/10	Instrument ID....:	1D5
Prep Date....:	09/23/10	Analysis Date....:	09/27/10	Volume....:	384.73
Prep Batch # ....:	0266392	Dilution Factor....:	1	Units.....:	pg/m3
Initial Wgt/Vol :	1 Sample	Analyst ID....:	Sonia Ouni		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	99	50 - 120
13C-1,2,3,7,8-PeCDD	108	50 - 120
13C-1,2,3,6,7,8-HxCDD	82	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	83	40 - 120
13C-OCDD	79	40 - 120
13C-2,3,7,8-TCDF	101	50 - 120
13C-1,2,3,7,8-PeCDF	104	50 - 120
13C-1,2,3,4,7,8-HxCDF	80	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	73	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	110	50 - 120

**QUALIFIERS**

Results and reporting limits have been adjusted for dry weight.

Notes:

WHO TEFs for human risk assessment based on the conclusions of the World Health Organization meeting in Geneva, Switzerland, June 2005

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

Northgate Environmental Management, Inc.

Sample ID: DW-09202010B

Trace Level Compounds

Lot - Sample #....: G0I230491 - 003	Work Order #....: L7DQM1AA	Matrix....: AA
Date Sampled....: 09/20/10	Date Received....: 09/23/10	Dilution Factor....: 1
Prep Date....: 09/23/10	Analysis Date....: 09/27/10	Volume....: 384.73
Prep Batch # ....: 0266392	Instrument ID....: 1D5	Method....: EPA-2 TO-9
Initial Wgt/Vol....: 1 Sample	Analyst ID....: Sonia Ouni	

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	0.0069 J Q	0.052	0.0023	pg/m3
Total TCDD	0.12	0.052	0.0023	pg/m3
1,2,3,7,8-PeCDD	0.019 J	0.26	0.0049	pg/m3
Total PeCDD	0.054	0.26	0.0049	pg/m3
1,2,3,4,7,8-HxCDD	0.012 J	0.26	0.0044	pg/m3
1,2,3,6,7,8-HxCDD	0.028 J	0.26	0.0044	pg/m3
1,2,3,7,8,9-HxCDD	0.033 J B	0.26	0.0036	pg/m3
Total HxCDD	0.17	0.26	0.0042	pg/m3
1,2,3,4,6,7,8-HpCDD	0.13 J B	0.26	0.0036	pg/m3
Total HpCDD	0.19	0.26	0.0036	pg/m3
OCDD	0.12 J B	0.52	0.0065	pg/m3
2,3,7,8-TCDF	0.20 CON	0.052	0.0052	pg/m3
Total TCDF	1.6	0.052	0.0022	pg/m3
1,2,3,7,8-PeCDF	0.29	0.26	0.0047	pg/m3
2,3,4,7,8-PeCDF	0.11 J	0.26	0.0049	pg/m3
Total PeCDF	1.0	0.26	0.0047	pg/m3
1,2,3,4,7,8-HxCDF	0.48 B	0.26	0.0057	pg/m3
1,2,3,6,7,8-HxCDF	0.38 B	0.26	0.0047	pg/m3
2,3,4,6,7,8-HxCDF	0.095 J	0.26	0.0052	pg/m3
1,2,3,7,8,9-HxCDF	0.074 J B	0.26	0.0052	pg/m3
Total HxCDF	2.1	0.26	0.0052	pg/m3
1,2,3,4,6,7,8-HpCDF	1.7 B	0.26	0.0062	pg/m3
1,2,3,4,7,8,9-HpCDF	0.64 B	0.26	0.0073	pg/m3
Total HpCDF	3.4	0.26	0.0068	pg/m3
OCDF	3.6 B	0.52	0.0049	pg/m3

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	99	50 - 120
13C-1,2,3,7,8-PeCDD	108	50 - 120
13C-1,2,3,6,7,8-HxCDD	82	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	83	40 - 120
13C-OCDD	79	40 - 120
13C-2,3,7,8-TCDF	101	50 - 120
13C-1,2,3,7,8-PeCDF	104	50 - 120
13C-1,2,3,4,7,8-HxCDF	80	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	73	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	110	50 - 120

Northgate Environmental Management, Inc.

Sample ID: DW-09202010B

Trace Level Compounds

Lot - Sample #....:	G0I230491 - 003	Work Order #....:	L7DQM1AA	Matrix....:	AA
Date Sampled....:	09/20/10	Date Received....:	09/23/10	Dilution Factor....:	1
Prep Date....:	09/23/10	Analysis Date....:	09/27/10	Volume....:	384.73
Prep Batch # ....:	0266392	Instrument ID....:	1D5	Method....:	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Sonia Ouni		

**QUALIFIERS**

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



Northgate Environmental Management, Inc.

Sample ID: UW-09212010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0I230491 - 005  
 Date Sampled....: 09/21/10  
 Prep Date....: 09/23/10  
 Prep Batch # ....: 0266392  
 Initial Wgt/Vol : 1 Sample

Work Order #....: L7DQP1AA  
 Date Received....: 09/23/10  
 Analysis Date....: 09/27/10  
 Dilution Factor....: 1  
 Analyst ID....: Sonia Ouni

Matrix....: AA  
 Instrument ID....: 1D5  
 Volume....: 368.88  
 Units....: pg/m3

PARAMETER	RESULT	REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	1.7 J	20	1.0	0.0046
Total TCDD	3.7	20		
1,2,3,7,8-PeCDD	ND	100	1.0	0
Total PeCDD	ND	100		0
1,2,3,4,7,8-HxCDD	ND	100	0.1	0
1,2,3,6,7,8-HxCDD	ND	100	0.1	0
1,2,3,7,8,9-HxCDD	ND	100	0.1	0
Total HxCDD	4.7	100		
1,2,3,4,6,7,8-HpCDD	4.7 J Q B	100	0.01	0.00013
Total HpCDD	10	100		
OCDD	18 J Q B	200	0.0003	0.000015
2,3,7,8-TCDF	12 J	20	0.1	0.0033
Total TCDF	46	20		
1,2,3,7,8-PeCDF	9.5 J	100	0.03	0.00077
2,3,4,7,8-PeCDF	4.0 J	100	0.3	0.0033
Total PeCDF	28	100		
1,2,3,4,7,8-HxCDF	16 J B	100	0.1	0.0043
1,2,3,6,7,8-HxCDF	14 J B	100	0.1	0.0038
2,3,4,6,7,8-HxCDF	3.7 J Q	100	0.1	0.0010
1,2,3,7,8,9-HxCDF	3.9 J B	100	0.1	0.0011
Total HxCDF	75	100		
1,2,3,4,6,7,8-HpCDF	51 J B	100	0.01	0.0014
1,2,3,4,7,8,9-HpCDF	17 J Q B	100	0.01	0.00046
Total HpCDF	97	100		
OCDF	100 J B	200	0.0003	0.000081
<b>Total TEQ Concentration</b>				<b>0.024</b>

Northgate Environmental Management, Inc.

Sample ID: UW-09212010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0I230491 - 005  
Date Sampled....: 09/21/10  
Prep Date....: 09/23/10  
Prep Batch # ....: 0266392  
Initial Wgt/Vol : 1 Sample

Work Order #....: L7DQP1AA  
Date Received....: 09/23/10  
Analysis Date....: 09/27/10  
Dilution Factor....: 1  
Analyst ID....: Sonia Ouni

Matrix....: AA  
Instrument ID....: 1D5  
Volume....: 368.88  
Units....: pg/m3

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	94	50 - 120
13C-1,2,3,7,8-PeCDD	104	50 - 120
13C-1,2,3,6,7,8-HxCDD	85	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	86	40 - 120
13C-OCDD	82	40 - 120
13C-2,3,7,8-TCDF	95	50 - 120
13C-1,2,3,7,8-PeCDF	103	50 - 120
13C-1,2,3,4,7,8-HxCDF	76	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	74	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	115	50 - 120

**QUALIFIERS**

Results and reporting limits have been adjusted for dry weight.

Notes:

WHO TEFs for human risk assessment based on the conclusions of the World Health Organization meeting in Geneva, Switzerland, June 2005.

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

Northgate Environmental Management, Inc.

Sample ID: UW-09212010B

Trace Level Compounds

Lot - Sample #....:	G0I230491 - 005	Work Order #....:	L7DQP1AA	Matrix....:	AA
Date Sampled....:	09/21/10	Date Received....:	09/23/10	Dilution Factor....:	1
Prep Date....:	09/23/10	Analysis Date....:	09/27/10	Volume....:	368.88
Prep Batch # ....:	0266392	Instrument ID....:	1D5	Method....:	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Sonia Ouni		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	0.0047 J	0.054	0.0030	pg/m3
Total TCDD	0.0099	0.054	0.0030	pg/m3
1,2,3,7,8-PeCDD	ND	0.27	0.0038	pg/m3
Total PeCDD	ND	0.27	0.018	pg/m3
1,2,3,4,7,8-HxCDD	ND	0.27	0.0033	pg/m3
1,2,3,6,7,8-HxCDD	ND	0.27	0.0033	pg/m3
1,2,3,7,8,9-HxCDD	ND	0.27	0.0038	pg/m3
Total HxCDD	0.013	0.27	0.0030	pg/m3
1,2,3,4,6,7,8-HpCDD	0.013 J Q B	0.27	0.0035	pg/m3
Total HpCDD	0.028	0.27	0.0035	pg/m3
OCDD	0.048 J Q B	0.54	0.0049	pg/m3
2,3,7,8-TCDF	0.033 J	0.054	0.0015	pg/m3
Total TCDF	0.13	0.054	0.0015	pg/m3
1,2,3,7,8-PeCDF	0.026 J	0.27	0.0030	pg/m3
2,3,4,7,8-PeCDF	0.011 J	0.27	0.0033	pg/m3
Total PeCDF	0.076	0.27	0.0030	pg/m3
1,2,3,4,7,8-HxCDF	0.044 J B	0.27	0.0035	pg/m3
1,2,3,6,7,8-HxCDF	0.037 J B	0.27	0.0030	pg/m3
2,3,4,6,7,8-HxCDF	0.010 J Q	0.27	0.0033	pg/m3
1,2,3,7,8,9-HxCDF	0.010 J B	0.27	0.0033	pg/m3
Total HxCDF	0.20	0.27	0.0033	pg/m3
1,2,3,4,6,7,8-HpCDF	0.14 J B	0.27	0.0046	pg/m3
1,2,3,4,7,8,9-HpCDF	0.046 J Q B	0.27	0.0052	pg/m3
Total HpCDF	0.26	0.27	0.0049	pg/m3
OCDF	0.28 J B	0.54	0.0049	pg/m3

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	94	50 - 120
13C-1,2,3,7,8-PeCDD	104	50 - 120
13C-1,2,3,6,7,8-HxCDD	85	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	86	40 - 120
13C-OCDD	82	40 - 120
13C-2,3,7,8-TCDF	95	50 - 120
13C-1,2,3,7,8-PeCDF	103	50 - 120
13C-1,2,3,4,7,8-HxCDF	76	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	74	40 - 120
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	115	50 - 120

**Northgate Environmental Management, Inc.**

**Sample ID: UW-09212010B**

**Trace Level Compounds**

<b>Lot - Sample #....:</b>	G0I230491 - 005	<b>Work Order #....:</b>	L7DQP1AA	<b>Matrix....:</b>	AA
<b>Date Sampled....:</b>	09/21/10	<b>Date Received....:</b>	09/23/10	<b>Dilution Factor....:</b>	1
<b>Prep Date....:</b>	09/23/10	<b>Analysis Date....:</b>	09/27/10	<b>Volume....:</b>	368.88
<b>Prep Batch # ....:</b>	0266392	<b>Instrument ID....:</b>	1D5	<b>Method....:</b>	EPA-2 TO-9
<b>Initial Wgt/Vol....:</b>	1 Sample	<b>Analyst ID....:</b>	Sonia Ouni		

**QUALIFIERS**

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

Northgate Environmental Management, Inc.

Sample ID: DW-09212010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0I230491 - 007  
 Date Sampled....: 09/21/10  
 Prep Date....: 09/23/10  
 Prep Batch # ....: 0266392  
 Initial Wgt/Vol : 1 Sample

Work Order #....: L7DQR1AA  
 Date Received....: 09/23/10  
 Analysis Date....: 09/28/10  
 Dilution Factor....: 1  
 Analyst ID....: Sonia Ouni

Matrix....: AA  
 Instrument ID....: 1D5  
 Volume....: 366.85  
 Units....: pg/m3

PARAMETER	RESULT	REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	3.2 J	20	1.0	0.0087
Total TCDD	45	20		
1,2,3,7,8-PeCDD	5.8 J	100	1.0	0.016
Total PeCDD	32	100		
1,2,3,4,7,8-HxCDD	3.6 J	100	0.1	0.00098
1,2,3,6,7,8-HxCDD	6.1 J Q	100	0.1	0.0017
1,2,3,7,8,9-HxCDD	9.2 J B	100	0.1	0.0025
Total HxCDD	47	100		
1,2,3,4,6,7,8-HpCDD	36 J B	100	0.01	0.00098
Total HpCDD	54	100		
OCDD	41 J B	200	0.0003	0.000034
2,3,7,8-TCDF	66 CON	20	0.1	0.018
Total TCDF	670	20		
1,2,3,7,8-PeCDF	87 J	100	0.03	0.0071
2,3,4,7,8-PeCDF	33 J	100	0.3	0.027
Total PeCDF	370	100		
1,2,3,4,7,8-HxCDF	150 B	100	0.1	0.041
1,2,3,6,7,8-HxCDF	110 B	100	0.1	0.030
2,3,4,6,7,8-HxCDF	29 J	100	0.1	0.0079
1,2,3,7,8,9-HxCDF	21 J B	100	0.1	0.0057
Total HxCDF	660	100		
1,2,3,4,6,7,8-HpCDF	480 B	100	0.01	0.013
1,2,3,4,7,8,9-HpCDF	170 B	100	0.01	0.0046
Total HpCDF	900	100		
OCDF	1000 B	200	0.0003	0.00082
<b>Total TEQ Concentration</b>				<b>0.19</b>

Northgate Environmental Management, Inc.

Sample ID: DW-09212010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0I230491 - 007  
Date Sampled....: 09/21/10  
Prep Date....: 09/23/10  
Prep Batch # ....: 0266392  
Initial Wgt/Vol: 1 Sample

Work Order #....: L7DQR1AA  
Date Received....: 09/23/10  
Analysis Date....: 09/28/10  
Dilution Factor....: 1  
Analyst ID....: Sonia Ouni

Matrix....: AA  
Instrument ID....: 1D5  
Volume....: 366.85  
Units....: pg/m3

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	91	50 - 120
13C-1,2,3,7,8-PeCDD	99	50 - 120
13C-1,2,3,6,7,8-HxCDD	83	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	81	40 - 120
13C-OCDD	74	40 - 120
13C-2,3,7,8-TCDF	92	50 - 120
13C-1,2,3,7,8-PeCDF	96	50 - 120
13C-1,2,3,4,7,8-HxCDF	77	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	72	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	113	50 - 120

**QUALIFIERS**

Results and reporting limits have been adjusted for dry weight.

Notes:

WHO TEFs for human risk assessment based on the conclusions of the World Health Organization meeting in Geneva, Switzerland, June 2005.

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

Northgate Environmental Management, Inc.

Sample ID: DW-09212010B

Trace Level Compounds

Lot - Sample #....:	G0I230491 - 007	Work Order #....:	L7DQR1AA	Matrix....:	AA
Date Sampled....:	09/21/10	Date Received....:	09/23/10	Dilution Factor....:	1
Prep Date....:	09/23/10	Analysis Date....:	09/28/10	Volume....:	366.85
Prep Batch # ....:	0266392	Instrument ID....:	1D5	Method....:	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Sonia Ouni		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	0.0088 J	0.055	0.0027	pg/m3
Total TCDD	0.12	0.055	0.0027	pg/m3
1,2,3,7,8-PeCDD	0.016 J	0.27	0.0052	pg/m3
Total PeCDD	0.087	0.27	0.0052	pg/m3
1,2,3,4,7,8-HxCDD	0.0098 J	0.27	0.0038	pg/m3
1,2,3,6,7,8-HxCDD	0.017 J Q	0.27	0.0038	pg/m3
1,2,3,7,8,9-HxCDD	0.025 J B	0.27	0.0033	pg/m3
Total HxCDD	0.13	0.27	0.0035	pg/m3
1,2,3,4,6,7,8-HpCDD	0.099 J B	0.27	0.0030	pg/m3
Total HpCDD	0.15	0.27	0.0030	pg/m3
OCDD	0.11 J B	0.55	0.0041	pg/m3
2,3,7,8-TCDF	0.18 CON	0.055	0.0068	pg/m3
Total TCDF	1.8	0.055	0.0024	pg/m3
1,2,3,7,8-PeCDF	0.24 J	0.27	0.0041	pg/m3
2,3,4,7,8-PeCDF	0.091 J	0.27	0.0044	pg/m3
Total PeCDF	1.0	0.27	0.0041	pg/m3
1,2,3,4,7,8-HxCDF	0.42 B	0.27	0.0046	pg/m3
1,2,3,6,7,8-HxCDF	0.30 B	0.27	0.0038	pg/m3
2,3,4,6,7,8-HxCDF	0.079 J	0.27	0.0044	pg/m3
1,2,3,7,8,9-HxCDF	0.058 J B	0.27	0.0044	pg/m3
Total HxCDF	1.8	0.27	0.0044	pg/m3
1,2,3,4,6,7,8-HpCDF	1.3 B	0.27	0.0055	pg/m3
1,2,3,4,7,8,9-HpCDF	0.46 B	0.27	0.0063	pg/m3
Total HpCDF	2.5	0.27	0.0060	pg/m3
OCDF	2.7 B	0.55	0.0052	pg/m3

INTERNAL STANDARDS

PERCENT RECOVERY

RECOVERY LIMITS

13C-2,3,7,8-TCDD	91	50 - 120
13C-1,2,3,7,8-PeCDD	99	50 - 120
13C-1,2,3,6,7,8-HxCDD	83	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	81	40 - 120
13C-OCDD	74	40 - 120
13C-2,3,7,8-TCDF	92	50 - 120
13C-1,2,3,7,8-PeCDF	96	50 - 120
13C-1,2,3,4,7,8-HxCDF	77	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	72	40 - 120

SURROGATE

PERCENT RECOVERY

RECOVERY LIMITS

37Cl4-2,3,7,8-TCDD	113	50 - 120
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**Northgate Environmental Management, Inc.**

**Sample ID: DW-09212010B**

**Trace Level Compounds**

<b>Lot - Sample #....:</b>	G0I230491 - 007	<b>Work Order #....:</b>	L7DQR1AA	<b>Matrix....:</b>	AA
<b>Date Sampled....:</b>	09/21/10	<b>Date Received....:</b>	09/23/10	<b>Dilution Factor....:</b>	1
<b>Prep Date....:</b>	09/23/10	<b>Analysis Date....:</b>	09/28/10	<b>Volume....:</b>	366.85
<b>Prep Batch # ....:</b>	0266392	<b>Instrument ID....:</b>	1D5	<b>Method....:</b>	EPA-2 TO-9
<b>Initial Wgt/Vol....:</b>	1 Sample	<b>Analyst ID....:</b>	Sonia Ouni		

**QUALIFIERS**

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



Northgate Environmental Management, Inc.

Sample ID: UW-09212010A

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0I230491 - 013  
 Date Sampled....: 09/21/10  
 Prep Date....: 09/23/10  
 Prep Batch # ....: 0266392  
 Initial Wgt/Vol : 1 Sample

Work Order #....: L7DQ61AA  
 Date Received....: 09/23/10  
 Analysis Date....: 09/28/10  
 Dilution Factor....: 1  
 Analyst ID....: Sonia Ouni

Matrix....: AA  
 Instrument ID....: 1D5  
 Volume....: 449.98  
 Units.....: pg/m3

PARAMETER	RESULT	REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND	20	1.0	0
Total TCDD	ND	20		0
1,2,3,7,8-PeCDD	ND	100	1.0	0
Total PeCDD	ND	100		0
1,2,3,4,7,8-HxCDD	ND	100	0.1	0
1,2,3,6,7,8-HxCDD	ND	100	0.1	0
1,2,3,7,8,9-HxCDD	1.4 J Q B	100	0.1	0.00031
Total HxCDD	4.0	100		
1,2,3,4,6,7,8-HpCDD	4.0 J Q B	100	0.01	0.000089
Total HpCDD	8.0	100		
OCDD	15 J B	200	0.0003	0.000010
2,3,7,8-TCDF	2.5 J Q	20	0.1	0.00056
Total TCDF	6.4	20		
1,2,3,7,8-PeCDF	2.0 J Q	100	0.03	0.00013
2,3,4,7,8-PeCDF	ND	100	0.3	0
Total PeCDF	3.9	100		
1,2,3,4,7,8-HxCDF	5.1 J Q B	100	0.1	0.0011
1,2,3,6,7,8-HxCDF	4.6 J B	100	0.1	0.0010
2,3,4,6,7,8-HxCDF	2.0 J	100	0.1	0.00044
1,2,3,7,8,9-HxCDF	1.4 J B	100	0.1	0.00031
Total HxCDF	19	100		
1,2,3,4,6,7,8-HpCDF	13 J B	100	0.01	0.00029
1,2,3,4,7,8,9-HpCDF	5.1 J B	100	0.01	0.00011
Total HpCDF	26	100		
OCDF	24 J B	200	0.0003	0.000016
<b>Total TEQ Concentration</b>				<b>0.0044</b>

Northgate Environmental Management, Inc.

Sample ID: UW-09212010A

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0I230491 - 013  
Date Sampled....: 09/21/10  
Prep Date....: 09/23/10  
Prep Batch # ....: 0266392  
Initial Wgt/Vol : 1 Sample

Work Order #....: L7DQ61AA  
Date Received....: 09/23/10  
Analysis Date....: 09/28/10  
Dilution Factor....: 1  
Analyst ID....: Sonia Ouni

Matrix....: AA  
Instrument ID....: 1D5  
Volume....: 449.98  
Units.....: pg/m3

INTERNAL STANDARDS

PERCENT  
RECOVERY

RECOVERY  
LIMITS

13C-2,3,7,8-TCDD	95	50 - 120
13C-1,2,3,7,8-PeCDD	99	50 - 120
13C-1,2,3,6,7,8-HxCDD	76	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	82	40 - 120
13C-OCDD	75	40 - 120
13C-2,3,7,8-TCDF	93	50 - 120
13C-1,2,3,7,8-PeCDF	96	50 - 120
13C-1,2,3,4,7,8-HxCDF	71	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	67	40 - 120

SURROGATE

PERCENT  
RECOVERY

RECOVERY  
LIMITS

37Cl4-2,3,7,8-TCDD	111	50 - 120
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QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Notes:

WHO TEFs for human risk assessment based on the conclusions of the World Health Organization meeting in Geneva, Switzerland, June 2005

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

**Northgate Environmental Management, Inc.**

**Sample ID: UW-09212010A**

**Trace Level Compounds**

<b>Lot - Sample #....:</b>	G0I230491 - 013	<b>Work Order #....:</b>	L7DQ61AA	<b>Matrix....:</b>	AA
<b>Date Sampled....:</b>	09/21/10	<b>Date Received....:</b>	09/23/10	<b>Dilution Factor....:</b>	1
<b>Prep Date....:</b>	09/23/10	<b>Analysis Date....:</b>	09/28/10	<b>Volume....:</b>	449.98
<b>Prep Batch # ....:</b>	0266392	<b>Instrument ID....:</b>	1D5	<b>Method....:</b>	EPA-2 TO-9
<b>Initial Wgt/Vol....:</b>	1 Sample	<b>Analyst ID....:</b>	Sonia Ouni		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND	0.044	0.0018	pg/m3
Total TCDD	ND	0.044	0.0022	pg/m3
1,2,3,7,8-PeCDD	ND	0.22	0.0031	pg/m3
Total PeCDD	ND	0.22	0.021	pg/m3
1,2,3,4,7,8-HxCDD	ND	0.22	0.0027	pg/m3
1,2,3,6,7,8-HxCDD	ND	0.22	0.0024	pg/m3
1,2,3,7,8,9-HxCDD	0.0030 J Q B	0.22	0.0021	pg/m3
Total HxCDD	0.0090	0.22	0.0024	pg/m3
1,2,3,4,6,7,8-HpCDD	0.0088 J Q B	0.22	0.0020	pg/m3
Total HpCDD	0.018	0.22	0.0020	pg/m3
OCDD	0.034 J B	0.44	0.0033	pg/m3
2,3,7,8-TCDF	0.0056 J Q	0.044	0.0012	pg/m3
Total TCDF	0.014	0.044	0.0012	pg/m3
1,2,3,7,8-PeCDF	0.0045 J Q	0.22	0.0027	pg/m3
2,3,4,7,8-PeCDF	ND	0.22	0.0027	pg/m3
Total PeCDF	0.0087	0.22	0.0027	pg/m3
1,2,3,4,7,8-HxCDF	0.011 J Q B	0.22	0.0027	pg/m3
1,2,3,6,7,8-HxCDF	0.010 J B	0.22	0.0022	pg/m3
2,3,4,6,7,8-HxCDF	0.0045 J	0.22	0.0024	pg/m3
1,2,3,7,8,9-HxCDF	0.0032 J B	0.22	0.0024	pg/m3
Total HxCDF	0.042	0.22	0.0024	pg/m3
1,2,3,4,6,7,8-HpCDF	0.030 J B	0.22	0.0038	pg/m3
1,2,3,4,7,8,9-HpCDF	0.011 J B	0.22	0.0042	pg/m3
Total HpCDF	0.059	0.22	0.0040	pg/m3
OCDF	0.053 J B	0.44	0.0038	pg/m3

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	95	50 - 120
13C-1,2,3,7,8-PeCDD	99	50 - 120
13C-1,2,3,6,7,8-HxCDD	76	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	82	40 - 120
13C-OCDD	75	40 - 120
13C-2,3,7,8-TCDF	93	50 - 120
13C-1,2,3,7,8-PeCDF	96	50 - 120
13C-1,2,3,4,7,8-HxCDF	71	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	67	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37C14-2,3,7,8-TCDD	111	50 - 120

**Northgate Environmental Management, Inc.**

**Sample ID: UW-09212010A**

**Trace Level Compounds**

<b>Lot - Sample #....:</b>	G0I230491 - 013	<b>Work Order #....:</b>	L7DQ61AA	<b>Matrix....:</b>	AA
<b>Date Sampled....:</b>	09/21/10	<b>Date Received....:</b>	09/23/10	<b>Dilution Factor....:</b>	1
<b>Prep Date....:</b>	09/23/10	<b>Analysis Date....:</b>	09/28/10	<b>Volume....:</b>	449.98
<b>Prep Batch # ....:</b>	0266392	<b>Instrument ID....:</b>	1D5	<b>Method....:</b>	EPA-2 TO-9
<b>Initial Wgt/Vol....:</b>	1 Sample	<b>Analyst ID....:</b>	Sonia Ouni		

**QUALIFIERS**

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

Northgate Environmental Management, Inc.

Sample ID: DW-09212010A

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0I230491 - 015  
 Date Sampled....: 09/21/10  
 Prep Date....: 09/23/10  
 Prep Batch # ....: 0266392  
 Initial Wgt/Vol : 1 Sample

Work Order #....: L7DRA1AA  
 Date Received....: 09/23/10  
 Analysis Date....: 09/28/10  
 Dilution Factor....: 1  
 Analyst ID....: Sonia Ouni

Matrix....: AA  
 Instrument ID....: 1D5  
 Volume....: 445.38  
 Units....: pg/m3

PARAMETER	RESULT	REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	1.4 J Q	20	1.0	0.0031
Total TCDD	28	20		
1,2,3,7,8-PeCDD	4.3 J	100	1.0	0.0097
Total PeCDD	15	100		
1,2,3,4,7,8-HxCDD	3.0 J	100	0.1	0.00067
1,2,3,6,7,8-HxCDD	7.3 J	100	0.1	0.0016
1,2,3,7,8,9-HxCDD	6.9 J Q B	100	0.1	0.0015
Total HxCDD	41	100		
1,2,3,4,6,7,8-HpCDD	22 J B	100	0.01	0.00049
Total HpCDD	34	100		
OCDD	26 J Q B	200	0.0003	0.000018
2,3,7,8-TCDF	45 CON	20	0.1	0.010
Total TCDF	410	20		
1,2,3,7,8-PeCDF	61 J	100	0.03	0.0041
2,3,4,7,8-PeCDF	23 J	100	0.3	0.015
Total PeCDF	230	100		
1,2,3,4,7,8-HxCDF	99 J B	100	0.1	0.022
1,2,3,6,7,8-HxCDF	80 J B	100	0.1	0.018
2,3,4,6,7,8-HxCDF	19 J Q	100	0.1	0.0043
1,2,3,7,8,9-HxCDF	17 J B	100	0.1	0.0038
Total HxCDF	460	100		
1,2,3,4,6,7,8-HpCDF	340 B	100	0.01	0.0076
1,2,3,4,7,8,9-HpCDF	130 B	100	0.01	0.0029
Total HpCDF	660	100		
OCDF	700 B	200	0.0003	0.00047
<b>Total TEQ Concentration</b>				<b>0.11</b>

Northgate Environmental Management, Inc.

Sample ID: DW-09212010A

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0I230491 - 015  
Date Sampled....: 09/21/10  
Prep Date....: 09/23/10  
Prep Batch # ....: 0266392  
Initial Wgt/Vol : 1 Sample

Work Order #....: L7DRA1AA  
Date Received....: 09/23/10  
Analysis Date....: 09/28/10  
Dilution Factor....: 1  
Analyst ID....: Sonia Ouni

Matrix....: AA  
Instrument ID....: 1D5  
Volume....: 445.38  
Units....: pg/m3

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	91	50 - 120
13C-1,2,3,7,8-PeCDD	96	50 - 120
13C-1,2,3,6,7,8-HxCDD	77	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	79	40 - 120
13C-OCDD	73	40 - 120
13C-2,3,7,8-TCDF	91	50 - 120
13C-1,2,3,7,8-PeCDF	93	50 - 120
13C-1,2,3,4,7,8-HxCDF	72	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	67	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	111	50 - 120

**QUALIFIERS**

Results and reporting limits have been adjusted for dry weight.

Notes:

WHO TEFs for human risk assessment based on the conclusions of the World Health Organization meeting in Geneva, Switzerland, June 2005

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

Northgate Environmental Management, Inc.

Sample ID: DW-09212010A

Trace Level Compounds

Lot - Sample #....:	G0I230491 - 015	Work Order #....:	L7DRA1AA	Matrix....:	AA
Date Sampled....:	09/21/10	Date Received....:	09/23/10	Dilution Factor....:	1
Prep Date....:	09/23/10	Analysis Date....:	09/28/10	Volume....:	445.38
Prep Batch # ....:	0266392	Instrument ID....:	1D5	Method....:	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Sonia Ouni		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	0.0032 J Q	0.045	0.0027	pg/m3
Total TCDD	0.063	0.045	0.0027	pg/m3
1,2,3,7,8-PeCDD	0.0097 J	0.22	0.0052	pg/m3
Total PeCDD	0.034	0.22	0.0052	pg/m3
1,2,3,4,7,8-HxCDD	0.0068 J	0.22	0.0036	pg/m3
1,2,3,6,7,8-HxCDD	0.016 J	0.22	0.0034	pg/m3
1,2,3,7,8,9-HxCDD	0.015 J Q B	0.22	0.0029	pg/m3
Total HxCDD	0.091	0.22	0.0031	pg/m3
1,2,3,4,6,7,8-HpCDD	0.048 J B	0.22	0.0031	pg/m3
Total HpCDD	0.077	0.22	0.0031	pg/m3
OCDD	0.058 J Q B	0.45	0.0047	pg/m3
2,3,7,8-TCDF	0.10 CON	0.045	0.0049	pg/m3
Total TCDF	0.92	0.045	0.0019	pg/m3
1,2,3,7,8-PeCDF	0.14 J	0.22	0.0040	pg/m3
2,3,4,7,8-PeCDF	0.052 J	0.22	0.0045	pg/m3
Total PeCDF	0.52	0.22	0.0043	pg/m3
1,2,3,4,7,8-HxCDF	0.22 J B	0.22	0.0036	pg/m3
1,2,3,6,7,8-HxCDF	0.18 J B	0.22	0.0029	pg/m3
2,3,4,6,7,8-HxCDF	0.044 J Q	0.22	0.0034	pg/m3
1,2,3,7,8,9-HxCDF	0.037 J B	0.22	0.0034	pg/m3
Total HxCDF	1.0	0.22	0.0034	pg/m3
1,2,3,4,6,7,8-HpCDF	0.77 B	0.22	0.0061	pg/m3
1,2,3,4,7,8,9-HpCDF	0.30 B	0.22	0.0067	pg/m3
Total HpCDF	1.5	0.22	0.0063	pg/m3
OCDF	1.6 B	0.45	0.0036	pg/m3

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	91	50 - 120
13C-1,2,3,7,8-PeCDD	96	50 - 120
13C-1,2,3,6,7,8-HxCDD	77	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	79	40 - 120
13C-OCDD	73	40 - 120
13C-2,3,7,8-TCDF	91	50 - 120
13C-1,2,3,7,8-PeCDF	93	50 - 120
13C-1,2,3,4,7,8-HxCDF	72	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	67	40 - 120
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	111	50 - 120

Northgate Environmental Management, Inc.

Sample ID: DW-09212010A

Trace Level Compounds

Lot - Sample #....:	G0I230491 - 015	Work Order #....:	L7DRA1AA	Matrix....:	AA
Date Sampled....:	09/21/10	Date Received....:	09/23/10	Dilution Factor....:	1
Prep Date....:	09/23/10	Analysis Date....:	09/28/10	Volume....:	445.38
Prep Batch # ....:	0266392	Instrument ID....:	1D5	Method....:	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Sonia Ouni		

**QUALIFIERS**

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



Northgate Environmental Management, Inc.

Sample ID: UW-09222010A

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0I230491 - 017  
 Date Sampled....: 09/22/10  
 Prep Date....: 09/23/10  
 Prep Batch # ....: 0266392  
 Initial Wgt/Vol : 1 Sample

Work Order #....: L7DRF1AA  
 Date Received....: 09/23/10  
 Analysis Date....: 09/28/10  
 Dilution Factor....: 1  
 Analyst ID....: Sonia Ouni

Matrix....: AA  
 Instrument ID....: 1D5  
 Volume....: 447.74  
 Units....: pg/m3

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND		20	1.0	0
Total TCDD	ND		20		0
1,2,3,7,8-PeCDD	ND		100	1.0	0
Total PeCDD	ND		100		0
1,2,3,4,7,8-HxCDD	ND		100	0.1	0
1,2,3,6,7,8-HxCDD	ND		100	0.1	0
1,2,3,7,8,9-HxCDD	ND		100	0.1	0
Total HxCDD	2.0		100		
1,2,3,4,6,7,8-HpCDD	3.2	J Q B	100	0.01	0.000071
Total HpCDD	6.9		100		
OCDD	18	J Q B	200	0.0003	0.000012
2,3,7,8-TCDF	1.6	J Q	20	0.1	0.00036
Total TCDF	4.0		20		
1,2,3,7,8-PeCDF	1.6	J	100	0.03	0.00011
2,3,4,7,8-PeCDF	ND		100	0.3	0
Total PeCDF	3.1		100		
1,2,3,4,7,8-HxCDF	3.0	J Q B	100	0.1	0.00067
1,2,3,6,7,8-HxCDF	3.4	J B	100	0.1	0.00076
2,3,4,6,7,8-HxCDF	1.5	J Q	100	0.1	0.00034
1,2,3,7,8,9-HxCDF	ND		100	0.1	0
Total HxCDF	7.8		100		
1,2,3,4,6,7,8-HpCDF	9.1	J Q B	100	0.01	0.00020
1,2,3,4,7,8,9-HpCDF	2.9	J B	100	0.01	0.000065
Total HpCDF	16		100		
OCDF	18	J Q B	200	0.0003	0.000012
<b>Total TEQ Concentration</b>					<b>0.0026</b>

Northgate Environmental Management, Inc.

Sample ID: UW-09222010A

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0I230491 - 017  
Date Sampled....: 09/22/10  
Prep Date....: 09/23/10  
Prep Batch # ....: 0266392  
Initial Wgt/Vol : 1 Sample

Work Order #....: L7DRF1AA  
Date Received....: 09/23/10  
Analysis Date....: 09/28/10  
Dilution Factor....: 1  
Analyst ID....: Sonia Ouni

Matrix....: AA  
Instrument ID....: 1D5  
Volume....: 447.74  
Units....: pg/m3

INTERNAL STANDARDS

	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	85	50 - 120
13C-1,2,3,7,8-PeCDD	100.	50 - 120
13C-1,2,3,6,7,8-HxCDD	97	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	90	40 - 120
13C-OCDD	82	40 - 120
13C-2,3,7,8-TCDF	86	50 - 120
13C-1,2,3,7,8-PeCDF	96	50 - 120
13C-1,2,3,4,7,8-HxCDF	86	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	82	40 - 120

SURROGATE

	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	109	50 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Notes:

WHO TEFs for human risk assessment based on the conclusions of the World Health Organization meeting in Geneva, Switzerland, June 2005.

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

Northgate Environmental Management, Inc.

Sample ID: UW-09222010A

Trace Level Compounds

Lot - Sample #....:	G0I230491 - 017	Work Order #....:	L7DRF1AA	Matrix....:	AA
Date Sampled....:	09/22/10	Date Received....:	09/23/10	Dilution Factor....:	1
Prep Date....:	09/23/10	Analysis Date....:	09/28/10	Volume....:	447.74
Prep Batch # ....:	0266392	Instrument ID....:	1D5	Method....:	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Sonia Ouni		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		0.045	0.0027	pg/m3
Total TCDD	ND		0.045	0.0027	pg/m3
1,2,3,7,8-PeCDD	ND		0.22	0.0036	pg/m3
Total PeCDD	ND		0.22	0.019	pg/m3
1,2,3,4,7,8-HxCDD	ND		0.22	0.0031	pg/m3
1,2,3,6,7,8-HxCDD	ND		0.22	0.0031	pg/m3
1,2,3,7,8,9-HxCDD	ND		0.22	0.0027	pg/m3
Total HxCDD	0.0044		0.22	0.0029	pg/m3
1,2,3,4,6,7,8-HpCDD	0.0070	J Q B	0.22	0.0029	pg/m3
Total HpCDD	0.016		0.22	0.0029	pg/m3
OCDD	0.041	J Q B	0.45	0.0047	pg/m3
2,3,7,8-TCDF	0.0037	J Q	0.045	0.0019	pg/m3
Total TCDF	0.0090		0.045	0.0019	pg/m3
1,2,3,7,8-PeCDF	0.0036	J	0.22	0.0029	pg/m3
2,3,4,7,8-PeCDF	ND		0.22	0.0031	pg/m3
Total PeCDF	0.0070		0.22	0.0029	pg/m3
1,2,3,4,7,8-HxCDF	0.0066	J Q B	0.22	0.0031	pg/m3
1,2,3,6,7,8-HxCDF	0.0076	J B	0.22	0.0025	pg/m3
2,3,4,6,7,8-HxCDF	0.0033	J Q	0.22	0.0027	pg/m3
1,2,3,7,8,9-HxCDF	ND		0.22	0.0027	pg/m3
Total HxCDF	0.018		0.22	0.0027	pg/m3
1,2,3,4,6,7,8-HpCDF	0.020	J Q B	0.22	0.0036	pg/m3
1,2,3,4,7,8,9-HpCDF	0.0066	J B	0.22	0.0040	pg/m3
Total HpCDF	0.037		0.22	0.0038	pg/m3
OCDF	0.040	J Q B	0.45	0.0040	pg/m3

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	85	50 - 120
13C-1,2,3,7,8-PeCDD	100	50 - 120
13C-1,2,3,6,7,8-HxCDD	97	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	90	40 - 120
13C-OCDD	82	40 - 120
13C-2,3,7,8-TCDF	86	50 - 120
13C-1,2,3,7,8-PeCDF	96	50 - 120
13C-1,2,3,4,7,8-HxCDF	86	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	82	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	109	50 - 120

Northgate Environmental Management, Inc.

Sample ID: UW-09222010A

Trace Level Compounds

Lot - Sample #....:	G0I230491 - 017	Work Order #....:	L7DRF1AA	Matrix....:	AA
Date Sampled....:	09/22/10	Date Received....:	09/23/10	Dilution Factor....:	1
Prep Date....:	09/23/10	Analysis Date....:	09/28/10	Volume....:	447.74
Prep Batch # ....:	0266392	Instrument ID....:	1D5	Method....:	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Sonia Ouni		

**QUALIFIERS**

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

Northgate Environmental Management, Inc.

Sample ID: DW-09222010A

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0I230491 - 019  
 Date Sampled....: 09/22/10  
 Prep Date....: 09/23/10  
 Prep Batch # ....: 0266392  
 Initial Wgt/Vol : 1 Sample

Work Order #....: L7DRH1AA  
 Date Received....: 09/23/10  
 Analysis Date....: 09/28/10  
 Dilution Factor....: 1  
 Analyst ID....: Sonia Ouni

Matrix....: AA  
 Instrument ID....: 1D5  
 Volume....: 448.55  
 Units....: pg/m3

PARAMETER	RESULT	REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	1.6 J Q	20	1.0	0.0036
Total TCDD	33	20		
1,2,3,7,8-PeCDD	4.7 J	100	1.0	0.010
Total PeCDD	20	100		
1,2,3,4,7,8-HxCDD	2.8 J Q	100	0.1	0.00062
1,2,3,6,7,8-HxCDD	5.2 J Q	100	0.1	0.0012
1,2,3,7,8,9-HxCDD	8.6 J B	100	0.1	0.0019
Total HxCDD	44	100		
1,2,3,4,6,7,8-HpCDD	23 J B	100	0.01	0.00051
Total HpCDD	36	100		
OCDD	28 J B	200	0.0003	0.000019
2,3,7,8-TCDF	48 CON	20	0.1	0.011
Total TCDF	450	20		
1,2,3,7,8-PeCDF	70 J	100	0.03	0.0047
2,3,4,7,8-PeCDF	24 J	100	0.3	0.016
Total PeCDF	270	100		
1,2,3,4,7,8-HxCDF	110 B	100	0.1	0.025
1,2,3,6,7,8-HxCDF	91 J B	100	0.1	0.020
2,3,4,6,7,8-HxCDF	23 J	100	0.1	0.0051
1,2,3,7,8,9-HxCDF	20 J B	100	0.1	0.0045
Total HxCDF	520	100		
1,2,3,4,6,7,8-HpCDF	380 B	100	0.01	0.0085
1,2,3,4,7,8,9-HpCDF	150 B	100	0.01	0.0033
Total HpCDF	730	100		
OCDF	840 B	200	0.0003	0.00056
<b>Total TEQ Concentration</b>				<b>0.12</b>

**Northgate Environmental Management, Inc.**

**Sample ID: DW-09222010A**

**Trace Level Organic Compounds**

**EPA-2 TO-9**

<b>Lot - Sample #....:</b> G0I230491 - 019	<b>Work Order #....:</b> L7DRH1AA	<b>Matrix....:</b> AA
<b>Date Sampled....:</b> 09/22/10	<b>Date Received....:</b> 09/23/10	<b>Instrument ID....:</b> 1D5
<b>Prep Date....:</b> 09/23/10	<b>Analysis Date....:</b> 09/28/10	<b>Volume....:</b> 448.55
<b>Prep Batch # ....:</b> 0266392	<b>Dilution Factor....:</b> 1	<b>Units....:</b> pg/m3
<b>Initial Wgt/Vol:</b> 1 Sample	<b>Analyst ID....:</b> Sonia Ouni	

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	96	50 - 120
13C-1,2,3,7,8-PeCDD	105	50 - 120
13C-1,2,3,6,7,8-HxCDD	78	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	86	40 - 120
13C-OCDD	79	40 - 120
13C-2,3,7,8-TCDF	99	50 - 120
13C-1,2,3,7,8-PeCDF	101	50 - 120
13C-1,2,3,4,7,8-HxCDF	76	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	75	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	110	50 - 120

**QUALIFIERS**

Results and reporting limits have been adjusted for dry weight

**Notes:**

WHO TEFs for human risk assessment based on the conclusions of the World Health Organization meeting in Geneva, Switzerland, June 2005.

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

Northgate Environmental Management, Inc.

Sample ID: DW-09222010A

Trace Level Compounds

Lot - Sample #....: G0I230491 - 019	Work Order #....: L7DRH1AA	Matrix....: AA
Date Sampled....: 09/22/10	Date Received....: 09/23/10	Dilution Factor....: 1
Prep Date....: 09/23/10	Analysis Date....: 09/28/10	Volume....: 448.55
Prep Batch # ....: 0266392	Instrument ID....: 1D5	Method....: EPA-2 TO-9
Initial Wgt/Vol....: 1 Sample	Analyst ID....: Sonia Ouni	

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	0.0036 J Q	0.045	0.0022	pg/m3
Total TCDD	0.074	0.045	0.0022	pg/m3
1,2,3,7,8-PeCDD	0.010 J	0.22	0.0036	pg/m3
Total PeCDD	0.045	0.22	0.0036	pg/m3
1,2,3,4,7,8-HxCDD	0.0063 J Q	0.22	0.0025	pg/m3
1,2,3,6,7,8-HxCDD	0.012 J Q	0.22	0.0025	pg/m3
1,2,3,7,8,9-HxCDD	0.019 J B	0.22	0.0020	pg/m3
Total HxCDD	0.098	0.22	0.0022	pg/m3
1,2,3,4,6,7,8-HpCDD	0.052 J B	0.22	0.0027	pg/m3
Total HpCDD	0.080	0.22	0.0027	pg/m3
OCDD	0.063 J B	0.45	0.0042	pg/m3
2,3,7,8-TCDF	0.11 CON	0.045	0.0045	pg/m3
Total TCDF	1.00	0.045	0.0016	pg/m3
1,2,3,7,8-PeCDF	0.16 J	0.22	0.0038	pg/m3
2,3,4,7,8-PeCDF	0.054 J	0.22	0.0040	pg/m3
Total PeCDF	0.60	0.22	0.0038	pg/m3
1,2,3,4,7,8-HxCDF	0.25 B	0.22	0.0047	pg/m3
1,2,3,6,7,8-HxCDF	0.20 J B	0.22	0.0038	pg/m3
2,3,4,6,7,8-HxCDF	0.051 J	0.22	0.0042	pg/m3
1,2,3,7,8,9-HxCDF	0.044 J B	0.22	0.0042	pg/m3
Total HxCDF	1.2	0.22	0.0042	pg/m3
1,2,3,4,6,7,8-HpCDF	0.85 B	0.22	0.0036	pg/m3
1,2,3,4,7,8,9-HpCDF	0.32 B	0.22	0.0042	pg/m3
Total HpCDF	1.6	0.22	0.0040	pg/m3
OCDF	1.9 B	0.45	0.0036	pg/m3

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	96	50 - 120
13C-1,2,3,7,8-PeCDD	105	50 - 120
13C-1,2,3,6,7,8-HxCDD	78	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	86	40 - 120
13C-OCDD	79	40 - 120
13C-2,3,7,8-TCDF	99	50 - 120
13C-1,2,3,7,8-PeCDF	101	50 - 120
13C-1,2,3,4,7,8-HxCDF	76	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	75	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	110	50 - 120

**Northgate Environmental Management, Inc.**

**Sample ID: DW-09222010A**

**Trace Level Compounds**

<b>Lot - Sample #....:</b>	G0I230491 - 019	<b>Work Order #....:</b>	L7DRH1AA	<b>Matrix....:</b>	AA
<b>Date Sampled....:</b>	09/22/10	<b>Date Received....:</b>	09/23/10	<b>Dilution Factor....:</b>	1
<b>Prep Date....:</b>	09/23/10	<b>Analysis Date....:</b>	09/28/10	<b>Volume....:</b>	448.55
<b>Prep Batch # ....:</b>	0266392	<b>Instrument ID....:</b>	1D5	<b>Method....:</b>	EPA-2 TO-9
<b>Initial Wgt/Vol....:</b>	1 Sample	<b>Analyst ID....:</b>	Sonia Ouni		

**QUALIFIERS**

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



# QC DATA ASSOCIATION SUMMARY

G0I230491

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	AA	EPA-2 TO-9		0266392	
002	AA	EPA-2 TO-13		0266389	
003	AA	EPA-2 TO-9		0266392	
004	AA	EPA-2 TO-13		0266389	
005	AA	EPA-2 TO-9		0266392	
006	AA	EPA-2 TO-13		0266389	
007	AA	EPA-2 TO-9		0266392	
008	AA	EPA-2 TO-13		0266389	
013	AA	EPA-2 TO-9		0266392	
014	AA	EPA-2 TO-13		0266389	
015	AA	EPA-2 TO-9		0266392	
016	AA	EPA-2 TO-13		0266389	
017	AA	EPA-2 TO-9		0266392	
018	AA	EPA-2 TO-13		0266389	
019	AA	EPA-2 TO-9		0266392	
020	AA	EPA-2 TO-13		0266389	

**Method Blank Report**

**Trace Level Compounds**

<b>Lot - Sample #....:</b> G0I230000 - 392B	<b>Work Order #....:</b> L7EX61AA	<b>Matrix....:</b> AIR
<b>Date Sampled....:</b> 09/20/10	<b>Date Received....:</b> 09/23/10	<b>Dilution Factor....:</b> 1
<b>Prep Date....:</b> 09/23/10	<b>Analysis Date....:</b> 09/27/10	<b>Volume....:</b> 0
<b>Prep Batch # ....:</b> 0266392	<b>Instrument ID....:</b> 1D5	<b>Method....:</b> EPA-2 TO-9
<b>Initial Wgt/Vol....:</b> 1 Sample	<b>Analyst ID....:</b> Sonia Ouni	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND	20	1.1	pg
Total TCDD	ND	20	1.2	pg
1,2,3,7,8-PeCDD	ND	100	1.7	pg
Total PeCDD	ND	100	6.5	pg
1,2,3,4,7,8-HxCDD	ND	100	1.9	pg
1,2,3,6,7,8-HxCDD	ND	100	1.9	pg
<b>1,2,3,7,8,9-HxCDD</b>	<b>2.0</b> <b>J Q</b>	<b>100</b>	<b>1.6</b>	<b>pg</b>
<b>Total HxCDD</b>	<b>5.9</b>	<b>100</b>	<b>1.8</b>	<b>pg</b>
<b>1,2,3,4,6,7,8-HpCDD</b>	<b>8.4</b> <b>J Q</b>	<b>100</b>	<b>0.90</b>	<b>pg</b>
<b>Total HpCDD</b>	<b>11</b>	<b>100</b>	<b>0.90</b>	<b>pg</b>
<b>OCDD</b>	<b>9.5</b> <b>J</b>	<b>200</b>	<b>2.1</b>	<b>pg</b>
2,3,7,8-TCDF	ND	20	0.63	pg
Total TCDF	ND	20	0.63	pg
1,2,3,7,8-PeCDF	ND	100	1.1	pg
2,3,4,7,8-PeCDF	ND	100	1.0	pg
Total PeCDF	ND	100	2.8	pg
<b>1,2,3,4,7,8-HxCDF</b>	<b>2.2</b> <b>J</b>	<b>100</b>	<b>1.4</b>	<b>pg</b>
<b>1,2,3,6,7,8-HxCDF</b>	<b>2.5</b> <b>J</b>	<b>100</b>	<b>1.1</b>	<b>pg</b>
2,3,4,6,7,8-HxCDF	ND	100	1.2	pg
<b>1,2,3,7,8,9-HxCDF</b>	<b>1.3</b> <b>J Q</b>	<b>100</b>	<b>1.2</b>	<b>pg</b>
<b>Total HxCDF</b>	<b>6.0</b>	<b>100</b>	<b>1.2</b>	<b>pg</b>
<b>1,2,3,4,6,7,8-HpCDF</b>	<b>2.8</b> <b>J Q</b>	<b>100</b>	<b>1.4</b>	<b>pg</b>
<b>1,2,3,4,7,8,9-HpCDF</b>	<b>2.6</b> <b>J</b>	<b>100</b>	<b>1.6</b>	<b>pg</b>
<b>Total HpCDF</b>	<b>5.4</b>	<b>100</b>	<b>1.5</b>	<b>pg</b>
<b>OCDF</b>	<b>4.0</b> <b>J</b>	<b>200</b>	<b>1.8</b>	<b>pg</b>

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	98	50 - 120
13C-1,2,3,7,8-PeCDD	104	50 - 120
13C-1,2,3,6,7,8-HxCDD	72	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	85	40 - 120
13C-OCDD	80	40 - 120
13C-2,3,7,8-TCDF	97	50 - 120
13C-1,2,3,7,8-PeCDF	102	50 - 120
13C-1,2,3,4,7,8-HxCDF	68	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	69	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	114	50 - 120

**Method Blank Report**

**Trace Level Compounds**

**Lot - Sample #....:** G0I230000 - 392B  
**Date Sampled....:** 09/20/10  
**Prep Date....:** 09/23/10  
**Prep Batch # ....:** 0266392  
**Initial Wgt/Vol....:** 1 Sample

**Work Order #....:** L7EX61AA  
**Date Received....:** 09/23/10  
**Analysis Date....:** 09/27/10  
**Instrument ID....:** 1D5  
**Analyst ID....:** Sonia Ouni

**Matrix....:** AIR  
**Dilution Factor....:** 1  
**Volume....:** 0  
**Method....:** EPA-2 TO-9

**QUALIFIERS**

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

**LABORATORY CONTROL SAMPLE DATA REPORT**

**Trace Level Compounds**

Client Lot # ...:	G01230491	Work Order # ...:	L7EX61AC-LCS	Matrix .....	AIR
LCS Lot-Sample# :	G01230000 - 392		L7EX61AD-LCSD		
Prep Date .....	09/23/10	Analysis Date ..:	09/28/10		
Prep Batch # ...:	0266392				
Dilution Factor :	1				
Analyst ID.....:	Sonia Ouni	Instrument ID...:	1D5	Method.....:	EPA-2 TO-9
Initial Wgt/Vol:	1 Sample				

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>
2,3,7,8-TCDD	400	416	pg	104	(70 - 130)		
	400	418	pg	104	(70 - 130)	0.40	(0 - 30)
1,2,3,7,8-PeCDD	2000	2100	pg	105	(70 - 130)		
	2000	2090	pg	105	(70 - 130)	0.27	(0 - 30)
1,2,3,4,7,8-HxCDD	2000	1770	pg	89	(70 - 130)		
	2000	1880	pg	94	(70 - 130)	6.0	(0 - 30)
1,2,3,6,7,8-HxCDD	2000	2100	pg	105	(70 - 130)		
	2000	2150	pg	108	(70 - 130)	2.5	(0 - 30)
1,2,3,7,8,9-HxCDD	2000	2500	pg	125	(70 - 130)		
	2000	2530	pg	126	(70 - 130)	1.1	(0 - 30)
1,2,3,4,6,7,8-HpCDD	2000	2130	pg	107	(70 - 130)		
	2000	2160	pg	108	(70 - 130)	1.3	(0 - 30)
OCDD	4000	3890	pg	97	(70 - 130)		
	4000	3960	pg	99	(70 - 130)	1.7	(0 - 30)
2,3,7,8-TCDF	400	425	pg	106	(70 - 130)		
	400	427	pg	107	(70 - 130)	0.58	(0 - 30)
1,2,3,7,8-PeCDF	2000	2190	pg	110	(70 - 130)		
	2000	2230	pg	112	(70 - 130)	1.8	(0 - 30)
2,3,4,7,8-PeCDF	2000	1570	pg	79	(70 - 130)		
	2000	1650	pg	82	(70 - 130)	4.8	(0 - 30)
1,2,3,4,7,8-HxCDF	2000	2190	pg	110	(70 - 130)		
	2000	2250	pg	112	(70 - 130)	2.4	(0 - 30)
1,2,3,6,7,8-HxCDF	2000	2220	pg	111	(70 - 130)		
	2000	2180	pg	109	(70 - 130)	1.5	(0 - 30)
2,3,4,6,7,8-HxCDF	2000	2570	pg	128	(70 - 130)		
	2000	2550	pg	127	(70 - 130)	0.75	(0 - 30)
1,2,3,7,8,9-HxCDF	2000	2630	pg	132	(70 - 130)		
	2000	2630	pg	131	(70 - 130)	0.23	(0 - 30)
1,2,3,4,6,7,8-HpCDF	2000	2140	pg	107	(70 - 130)		
	2000	2210	pg	110	(70 - 130)	2.9	(0 - 30)
1,2,3,4,7,8,9-HpCDF	2000	2370	pg	119	(70 - 130)		
	2000	2370	pg	118	(70 - 130)	0.25	(0 - 30)
OCDF	4000	3810	pg	95	(70 - 130)		
	4000	3820	pg	96	(70 - 130)	0.35	(0 - 30)
<u>INTERNAL STANDARD</u>				<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
13C-2,3,7,8-TCDD				98	(50 - 120)		
				91	(50 - 120)		
13C-1,2,3,7,8-PeCDD				106	(50 - 120)		
				101	(50 - 120)		
13C-1,2,3,6,7,8-HxCDD				82	(50 - 120)		

**LABORATORY CONTROL SAMPLE DATA REPORT**

**Trace Level Compounds**

Client Lot # ...: G0I230491  
 LCS Lot-Sample# : G0I230000 - 392

Work Order # ...: L7EX61AC-LCS  
 L7EX61AD-LCSD

Matrix .....: AIR

<u>INTERNAL STANDARD</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
	78	(50 - 120)
13C-1,2,3,4,6,7,8-HpCDD	88	(40 - 120)
	79	(40 - 120)
13C-OCDD	84	(40 - 120)
	74	(40 - 120)
13C-2,3,7,8-TCDF	99	(50 - 120)
	92	(50 - 120)
13C-1,2,3,7,8-PeCDF	103	(50 - 120)
	96	(50 - 120)
13C-1,2,3,4,7,8-HxCDF	78	(50 - 120)
	73	(50 - 120)
13C-1,2,3,4,6,7,8-HpCDF	76	(40 - 120)
	69	(40 - 120)
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	0.20 *	(50 - 120)

**Notes:**

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

Bold print denotes control parameters

- \* Surrogate recovery is outside stated control limits
- a Spiked analyte recovery is outside stated control limits.

# AIR, TO-9, Dioxins/Furans

**Northgate Environmental Management, Inc.**

**Sample ID: UW-09202010B**

**Trace Level Compounds**

<b>Lot - Sample #....:</b>	G0I230491 - 002	<b>Work Order #....:</b>	L7DQK1AA	<b>Matrix....:</b>	AA
<b>Date Sampled....:</b>	09/20/10	<b>Date Received....:</b>	09/23/10	<b>Dilution Factor....:</b>	1
<b>Prep Date....:</b>	09/23/10	<b>Analysis Date....:</b>	09/25/10	<b>Volume....:</b>	383.94
<b>Prep Batch # ....:</b>	0266389	<b>Instrument ID....:</b>	5MH	<b>Method....:</b>	EPA-2 TO-13
<b>Initial Wgt/Vol....:</b>	1 Sample	<b>Analyst ID....:</b>	Kenny Q. Truong		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Hexachlorobenzene	ND	0.026	0.0034	ug/m3

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichlorobenzene-d4	43 *	60 - 120
2-Fluorobiphenyl	81	58 - 105
2-Fluorophenol	62	41 - 105
Nitrobenzene-d5	66	46 - 118
Phenol-d5	72	43 - 122 *
Terphenyl-d14	88	69 - 110
2,4,6-Tribromophenol	115	61 - 118

**QUALIFIERS**

\* Surrogate recovery is outside stated control limits.

**Northgate Environmental Management, Inc.**

**Sample ID: DW-09202010B**

**Trace Level Compounds**

<b>Lot - Sample #....:</b>	G01230491 - 004	<b>Work Order #....:</b>	L7DQN1AA	<b>Matrix....:</b>	AA
<b>Date Sampled....:</b>	09/20/10	<b>Date Received....:</b>	09/23/10	<b>Dilution Factor....:</b>	1
<b>Prep Date....:</b>	09/23/10	<b>Analysis Date....:</b>	09/25/10	<b>Volume....:</b>	386.3
<b>Prep Batch # ....:</b>	0266389	<b>Instrument ID....:</b>	5MH	<b>Method....:</b>	EPA-2 TO-13
<b>Initial Wgt/Vol....:</b>	1 Sample	<b>Analyst ID....:</b>	Kenny Q. Truong		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Hexachlorobenzene	0.018 J	0.026	0.0034	ug/m3
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>
1,2-Dichlorobenzene-d4		47 *		60 - 120
2-Fluorobiphenyl		79		58 - 105
2-Fluorophenol		62		41 - 105
Nitrobenzene-d5		67		46 - 118
Phenol-d5		75		43 - 122
Terphenyl-d14		91		69 - 110
2,4,6-Tribromophenol		116		61 - 118

**QUALIFIERS**

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



**Northgate Environmental Management, Inc.**

**Sample ID: UW-09212010B**

**Trace Level Compounds**

<b>Lot - Sample #....:</b>	G0I230491 - 006	<b>Work Order #....:</b>	L7DQQ1AA	<b>Matrix....:</b>	AA
<b>Date Sampled....:</b>	09/21/10	<b>Date Received....:</b>	09/23/10	<b>Dilution Factor....:</b>	1
<b>Prep Date....:</b>	09/23/10	<b>Analysis Date....:</b>	09/25/10	<b>Volume....:</b>	370.77
<b>Prep Batch # ....:</b>	0266389	<b>Instrument ID....:</b>	5MH	<b>Method....:</b>	EPA-2 TO-13
<b>Initial Wgt/Vol....:</b>	1 Sample	<b>Analyst ID....:</b>	Kenny Q. Truong		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Hexachlorobenzene	ND	0.027	0.0035	ug/m3
<b><u>SURROGATE</u></b>		<b><u>PERCENT RECOVERY</u></b>		<b><u>RECOVERY LIMITS</u></b>
1,2-Dichlorobenzene-d4		52		60 - 120
2-Fluorobiphenyl		83		58 - 105
2-Fluorophenol		60		41 - 105
Nitrobenzene-d5		67		46 - 118
Phenol-d5		72		43 - 122
Terphenyl-d14		87		69 - 110
2,4,6-Tribromophenol		113		61 - 118

**QUALIFIERS**

\* Surrogate recovery is outside stated control limits

Northgate Environmental Management, Inc.

Sample ID: DW-09212010B

Trace Level Compounds

Lot - Sample #....:	G0I230491 - 008	Work Order #....:	L7DQT1AA	Matrix....:	AA
Date Sampled....:	09/21/10	Date Received....:	09/23/10	Dilution Factor....:	1
Prep Date....:	09/23/10	Analysis Date....:	09/25/10	Volume....:	361.13
Prep Batch # ....:	0266389	Instrument ID....:	5MH	Method....:	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Kenny Q. Truong		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Hexachlorobenzene	0.020 J	0.028	0.0036	ug/m3
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
1,2-Dichlorobenzene-d4		57 *	60 - 120	
2-Fluorobiphenyl		84	58 - 105	
2-Fluorophenol		62	41 - 105	
Nitrobenzene-d5		67	46 - 118	
Phenol-d5		74	43 - 122	
Terphenyl-d14		92	69 - 110	
2,4,6-Tribromophenol		112	61 - 118	

QUALIFIERS

- \* Surrogate recovery is outside stated control limits
- J Estimated Result

**Northgate Environmental Management, Inc.**

**Sample ID: UW-09212010A**

**Trace Level Compounds**

<b>Lot - Sample #....:</b>	G0I230491 - 014	<b>Work Order #....:</b>	L7DQ91AA	<b>Matrix....:</b>	AA
<b>Date Sampled....:</b>	09/21/10	<b>Date Received....:</b>	09/23/10	<b>Dilution Factor....:</b>	1
<b>Prep Date....:</b>	09/23/10	<b>Analysis Date....:</b>	09/25/10	<b>Volume....:</b>	439.77
<b>Prep Batch # ....:</b>	0266389	<b>Instrument ID....:</b>	5MH	<b>Method....:</b>	EPA-2 TO-13
<b>Initial Wgt/Vol....:</b>	1 Sample	<b>Analyst ID....:</b>	Kenny Q. Truong		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Hexachlorobenzene	ND	0.023	0.0030	ug/m3
<b><u>SURROGATE</u></b>		<b><u>PERCENT RECOVERY</u></b>		<b><u>RECOVERY LIMITS</u></b>
1,2-Dichlorobenzene-d4		51	*	60 - 120
2-Fluorobiphenyl		74		58 - 105
2-Fluorophenol		60		41 - 105
Nitrobenzene-d5		64		46 - 118
Phenol-d5		68		43 - 122
Terphenyl-d14		87		69 - 110
2,4,6-Tribromophenol		114		61 - 118

**QUALIFIERS**

\* Surrogate recovery is outside stated control limits

Northgate Environmental Management, Inc.

Sample ID: DW-09212010A

Trace Level Compounds

Lot - Sample #....:	G0I230491 - 016	Work Order #....:	L7DRC1AA	Matrix....:	AA
Date Sampled....:	09/21/10	Date Received....:	09/23/10	Dilution Factor....:	1
Prep Date....:	09/23/10	Analysis Date....:	09/25/10	Volume....:	445.38
Prep Batch # ....:	0266389	Instrument ID....:	5MH	Method....:	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Kenny Q. Truong		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Hexachlorobenzene	0.016 J	0.022	0.0029	ug/m3
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
1,2-Dichlorobenzene-d4		57 *	60 - 120	
2-Fluorobiphenyl		83	58 - 105	
2-Fluorophenol		66	41 - 105	
Nitrobenzene-d5		68	46 - 118	
Phenol-d5		73	43 - 122	
Terphenyl-d14		88	69 - 110	
2,4,6-Tribromophenol		105	61 - 118	

QUALIFIERS

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

Northgate Environmental Management, Inc.

Sample ID: UW-09222010A

Trace Level Compounds

Lot - Sample #....:	G0I230491 - 018	Work Order #....:	L7DRG1AA	Matrix....:	AA
Date Sampled....:	09/22/10	Date Received....:	09/23/10	Dilution Factor....:	1
Prep Date....:	09/23/10	Analysis Date....:	09/25/10	Volume....:	442.99
Prep Batch # ....:	0266389	Instrument ID....:	5MH	Method....:	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Kenny Q. Truong		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Hexachlorobenzene	ND	0.023	0.0029	ug/m3
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>
1,2-Dichlorobenzene-d4		54	*	60 - 120
2-Fluorobiphenyl		84		58 - 105
2-Fluorophenol		66		41 - 105
Nitrobenzene-d5		70		46 - 118
Phenol-d5		80		43 - 122
Terphenyl-d14		86		69 - 110
2,4,6-Tribromophenol		121	*	61 - 118

QUALIFIERS

\* Surrogate recovery is outside stated control limits.

**Northgate Environmental Management, Inc.**

**Sample ID: DW-09222010A**

**Trace Level Compounds**

<b>Lot - Sample #....:</b>	G0I230491 - 020	<b>Work Order #....:</b>	L7DRJ1AA	<b>Matrix....:</b>	AA
<b>Date Sampled....:</b>	09/22/10	<b>Date Received....:</b>	09/23/10	<b>Dilution Factor....:</b>	1
<b>Prep Date....:</b>	09/23/10	<b>Analysis Date....:</b>	09/25/10	<b>Volume....:</b>	443.79
<b>Prep Batch # ....:</b>	0266389	<b>Instrument ID....:</b>	5MH	<b>Method....:</b>	EPA-2 TO-13
<b>Initial Wgt/Vol....:</b>	1 Sample	<b>Analyst ID....:</b>	Kenny Q. Truong		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Hexachlorobenzene	0.017 J	0.023	0.0029	ug/m3
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
1,2-Dichlorobenzene-d4		55 *	60 - 120	
2-Fluorobiphenyl		85	58 - 105	
2-Fluorophenol		63	41 - 105	
Nitrobenzene-d5		68	46 - 118	
Phenol-d5		75	43 - 122	
Terphenyl-d14		88	69 - 110	
2,4,6-Tribromophenol		113	61 - 118	

**QUALIFIERS**

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

# QC DATA ASSOCIATION SUMMARY

G0I230491

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	AA	EPA-2 TO-9		0266392	
002	AA	EPA-2 TO-13		0266389	
003	AA	EPA-2 TO-9		0266392	
004	AA	EPA-2 TO-13		0266389	
005	AA	EPA-2 TO-9		0266392	
006	AA	EPA-2 TO-13		0266389	
007	AA	EPA-2 TO-9		0266392	
008	AA	EPA-2 TO-13		0266389	
013	AA	EPA-2 TO-9		0266392	
014	AA	EPA-2 TO-13		0266389	
015	AA	EPA-2 TO-9		0266392	
016	AA	EPA-2 TO-13		0266389	
017	AA	EPA-2 TO-9		0266392	
018	AA	EPA-2 TO-13		0266389	
019	AA	EPA-2 TO-9		0266392	
020	AA	EPA-2 TO-13		0266389	

**Method Blank Report**

**Trace Level Compounds**

<b>Lot - Sample #....:</b>	G0I230000 - 389B	<b>Work Order #....:</b>	L7EX41AA	<b>Matrix....:</b>	AIR
<b>Date Sampled....:</b>	09/20/10	<b>Date Received....:</b>	09/23/10	<b>Dilution Factor....:</b>	1
<b>Prep Date....:</b>	09/23/10	<b>Analysis Date....:</b>	09/25/10	<b>Volume....:</b>	0
<b>Prep Batch # ....:</b>	0266389	<b>Instrument ID....:</b>	5MH	<b>Method....:</b>	EPA-2 TO-13
<b>Initial Wgt/Vol....:</b>	1 Sample	<b>Analyst ID....:</b>	Kenny Q. Truong		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
Hexachlorobenzene	ND	10.0	1.3	ug

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichlorobenzene-d4	66	60 - 120
2-Fluorobiphenyl	76	58 - 105
2-Fluorophenol	59	41 - 105
Nitrobenzene-d5	63	46 - 118
Phenol-d5	65	43 - 122
Terphenyl-d14	96	69 - 110
2,4,6-Tribromophenol	108	61 - 118

**QUALIFIERS**



**LABORATORY CONTROL SAMPLE DATA REPORT**

**Trace Level Compounds**

<b>Client Lot # ...:</b> G0I230491	<b>Work Order # ...:</b> L7EX41AC-LCS	<b>Matrix .....</b> : AIR
<b>LCS Lot-Sample# :</b> G0I230000 - 389	L7EX41AD-LCSD	
<b>Prep Date .....</b> : 09/23/10	<b>Analysis Date ..:</b> 09/25/10	
<b>Prep Batch # ...:</b> 0266389		
<b>Dilution Factor :</b> 1		
<b>Analyst ID.....:</b> Kenny Q. Truong	<b>Instrument ID..:</b> 5MH	<b>Method.....:</b> EPA-2 TO-13
<b>Initial Wgt/Vol:</b> 1 Sample		

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>
<b>Hexachlorobenzene</b>	<b>100</b>	<b>98.7</b>	<b>ug</b>	<b>99</b>	<b>(70 - 110)</b>		
	<b>100</b>	<b>98.4</b>	<b>ug</b>	<b>98</b>	<b>(70 - 110)</b>	<b>0.30</b>	<b>(0 - 30)</b>
<u>SURROGATE</u>				<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
2-Fluorobiphenyl				97	(58 - 105)		
				97	(58 - 105)		
2-Fluorophenol				80	(41 - 105)		
				76	(41 - 105)		
Nitrobenzene-d5				85	(46 - 118)		
				85	(46 - 118)		
Phenol-d5				82	(43 - 122)		
				81	(43 - 122)		
Terphenyl-d14				87	(69 - 110)		
				83	(69 - 110)		
2,4,6-Tribromophenol				119 *	(61 - 118)		
				117	(61 - 118)		

**Notes:**

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

Bold print denotes control parameters

\* Surrogate recovery is outside stated control limits.

# AIR, TO-13, Semivolatile Organics

# **Raw Data Package**

## **Run/Batch Data**

*Includes (as applicable):*

*runlogs*

*continuing calibration standards*

*interference/performance check standards*

*continuing calibration blanks*

*method blanks*

*lcs*

*ms/sd*

*sample raw data*

*ms tune data*

Run text: L7EX6-1-AA Sample text: L7EX6-1-AA :G0I230000-392B (491)  
 Run #8 Filename: 27SE101D5 S: 17 I: 1 Results: 27SE101D5TO9  
 Acquired: 27-SEP-10 20:55:58 Processed: 28-SEP-10 09:22:51  
 Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5  
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000Sample

*09-29-10*

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	420414000	0.83 y	17:44	-	240.63	-	-	n
13C-2,3,7,8-TCDF	640865000	0.80 y	17:14	1.56	3900.96	1.47	97.5	n
2,3,7,8-TCDF	40156	0.39 n	17:19	0.98	<del>0.25</del>	0.63	-	n
Total TCDF	150913	2.13 n	14:18	0.98	<del>0.96</del>	0.63	-	n
13C-2,3,7,8-TCDD	379499000	0.80 y	17:56	0.92	3920.90	4.32	98.0	n
2,3,7,8-TCDD	*	* n	NotFnd	1.03	<del>*</del>	1.05	-	n
Total TCDD	169066	1.26 n	15:45	1.03	<del>1.73</del>	<del>1.05</del> 1.21	-	n
37Cl-2,3,7,8-TCDD	211444000	1.00 y	17:58	1.23	1817.43	1.76	113.6	n
13C-1,2,3,7,8-PeCDF	453078000	1.63 y	22:17	1.05	4095.53	1.74	102.4	n
1,2,3,7,8-PeCDF	139799	1.30 n	22:19	1.09	<i>5/22.5</i> 1.13 <i>R</i>	0.96	-	n
2,3,4,7,8-PeCDF	*	* n	NotFnd	1.02	<del>*</del>	1.04	-	n
Total F2 PeCDF	556862	0.95 n	20:58	1.05	<del>4.62</del> 2.85 <i>R</i>	1.00	-	n
Total F1 PeCDF	545863	0.71 n	15:18	1.05	<del>4.57</del>	<del>0.82</del>	-	n
13C-1,2,3,7,8-PeCDD	244768300	1.61 y	24:19	0.56	4152.20	2.24	103.8	n
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.07	<del>*</del>	1.65	-	n
Total PeCDD	524715	1.31 n	21:10	1.07	<del>8.01</del> 6.48 <i>R</i>	<del>1.65</del>	-	n
13C-1,2,3,7,8,9-HxCDD	373850000	1.28 y	30:46	-	227.80	-	-	n
13C-1,2,3,4,7,8-HxCDF	251486700	0.52 y	29:28	0.99	2715.64	5.98	67.9	n
1,2,3,4,7,8-HxCDF	172369	1.12 y	29:29	1.26	2.17 <i>J</i>	1.36	-	n
1,2,3,6,7,8-HxCDF	244348	1.34 y	29:36	1.53	2.54 <i>J</i>	1.12	-	n
2,3,4,6,7,8-HxCDF	105777	1.58 n	30:15	1.41	<del>1.20</del>	1.22	-	n
1,2,3,7,8,9-HxCDF	114403	0.52 n	30:57	1.40	1.30 <i>J, R</i>	1.23	-	n
Total HxCDF	806254	1.12 y	29:29	1.40	<del>9.14</del> 6.01	1.23	-	n
13C-1,2,3,6,7,8-HxCDD	197555700	1.34 y	30:28	0.74	2858.39	1.09	71.5	n
1,2,3,4,7,8-HxCDD	62619	0.71 n	30:23	1.12	<del>1.13</del>	1.92	-	n
1,2,3,6,7,8-HxCDD	104667	1.02 n	30:29	1.14	<del>1.86</del>	1.89	-	n
1,2,3,7,8,9-HxCDD	133472	0.78 n	30:47	1.35	2.00 <i>J, R</i>	1.59	-	n
Total HxCDD	562061	2.11 n	29:36	1.20	<del>9.38</del> 5.87	1.79	-	n
13C-1,2,3,4,6,7,8-HpCDF	247331400	0.44 y	32:22	0.96	2767.81	4.17	69.2	n
1,2,3,4,6,7,8-HpCDF	242389	1.66 n	32:22	1.41	2.78 <i>J, R</i>	1.41	-	n
1,2,3,4,7,8,9-HpCDF	199197	1.13 y	33:34	1.24	2.61 <i>J</i>	1.61	-	n
Total HpCDF	873106	1.66 n	32:22	1.32	<del>10.67</del> <del>7.7</del> 5.39 <i>9/soln v/c</i>	1.50	-	n
13C-1,2,3,4,6,7,8-HpCDD	224893000	1.10 y	33:15	0.71	3378.60	5.96	84.5	n
1,2,3,4,6,7,8-HpCDD	535180	1.20 n	33:17	1.13	8.39 <i>J, R</i>	0.90	-	n
Total HpCDD	1117095	1.88 n	32:22	1.13	<del>17.52</del> 10.88	0.90	-	n
13C-OCDD	211578000	0.92 y	35:50	0.35	6418.69	5.33	80.2	n
OCDF	223384	0.98 y	35:56	2.12	3.99 <i>J</i>	1.83	-	n
OCDD	346095	0.89 y	35:50	1.37	9.54 <i>J</i>	2.08	-	n

Run Text: L7EX6-1-AA

Sample text: L7EX6-1-AA :G0I230000-392B (η

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:3  
 Run: 8 File: 27SE101D5 S:17 Acq:27-SEP-10 20:55:58  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101Dη

Amount: 0.48 of which 0.13 named and 0.35 unnamed  
 Conc: 0.96 of which 0.25 named and 0.70 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:18	2.13	n	0.28	52802	3.9	y n
						24815	1.4	n n
	2	14:47	0.42	n	0.42	29075	2.5	n n
						69127	3.0	n n
2,3,7,8-TCDF	3	17:19	0.39	n	0.25	17469	1.3	n n
						45346	2.3	n n

Run Text: L7EX6-1-AA

Sample text: L7EX6-1-AA :G0I230000-392B (7

Name: Total TCDD

F:1 Mass: 319.897 321.894 Mod? no #Hom:2

Run: 8 File: 27SE101D5 S:17 Acq:27-SEP-10 20:55:58

Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D7

Amount:	0.86 of which	* named and	0.86 unnamed
Conc:	1.73 of which	* named and	1.73 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:45	1.26	n 0.51	35791	1.9	n	n
					28414	1.3	n	n
	2	17:13	2.33	n 1.21	156413	8.5	y	n
					67103	2.6	n	n

Run Text: L7EX6-1-AA

Sample text: L7EX6-1-AA :G0I230000-392B (7)

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:4  
 Run: 8 File: 27SE101D5 S:17 Acq:27-SEP-10 20:55:58  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D7

Amount: 2.31 of which 0.57 named and 1.75 unnamed  
 Conc: 4.62 of which 1.13 named and 3.49 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:58	0.95 n	0.28	20401 21461	2.2 1.5	n n	n n
1,2,3,7,8-PeCDF	2	22:19	1.30 n	1.13	84976 65359	7.9 3.1	y y	n n
	3	22:24	0.92 n	0.36	26102 28220	3.3 1.3	y n	n n
	4	24:03	0.68 (n)	2.85 (m)	207006 304428	15.3 9.3	y y	n n

*Artifact*



Run Text: L7EX6-1-AA

Sample text: L7EX6-1-AA :G0I230000-392B (7)

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:4  
 Run: 8 File: 27SE101D5 S:17 Acq:27-SEP-10 20:55:58  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D7

Amount: 2.28 of which \* named and 2.28 unnamed  
 Conc: 4.57 of which \* named and 4.57 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:18	0.71 n	1.89	137306 192985	16.3 13.8	y	n
	2	17:43	3.04 n	0.23	32760 10786	2.4 0.7	n	n
	3	18:56	0.78 n	<del>2.17</del> <i>0.20</i>	157736 201815	14.7 11.1	y	n
	4	19:48	0.75 n	<del>0.28</del>	20039 26674	1.6 2.1	n	n

Run Text: L7EX6-1-AA

Sample text: L7EX6-1-AA :G0I230000-392B (7)

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:4  
 Run: 8 File: 27SE101D5 S:17 Acq:27-SEP-10 20:55:58  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D7

Amount: 4.01 of which \* named and 4.01 unnamed  
 Conc: 8.01 of which \* named and 8.01 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	21:10	1.31 n	0.46	18316 13969	1.3 2.0	n	n
	2	22:19	10.01 n	0.35	89583 8952	4.5 1.9	y	n
	3	23:35	1.91 n	0.72	35533 18577	2.0 2.0	n	n
	4	24:02	2.68 (n)	6.48	445579 166425	17.8 15.0	y	n

DW

Artifact

Run Text: L7EX6-1-AA

Sample text: L7EX6-1-AA :G0I230000-392B (7)

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:6  
 Run: 8 File: 27SE101D5 S:17 Acq:27-SEP-10 20:55:58  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D7

Amount: 4.57 of which 3.61 named and 0.96 unnamed  
 Conc: 9.14 of which 7.21 named and 1.93 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,7,8-HxCDF	1	29:29	1.12	y	2.17	90984	5.3	y	n
						81385	5.1	y	n
1,2,3,6,7,8-HxCDF	2	29:36	1.34	y	2.54	140032	5.5	y	n
						104316	5.5	y	n
2,3,4,6,7,8-HxCDF	3	30:15	1.58	n	1.20	74694	4.0	y	n
						47222	2.7	n	n
1,2,3,7,8,9-HxCDF	4	30:57	0.52	n	1.30	63330	4.1	y	n
						122891	6.8	y	n
	5	31:02	0.48	n	1.21	59058	3.3	y	n
						122891	6.8	y	n
	6	31:42	3.14	n	0.71	87765	4.6	y	n
						27979	2.2	n	n

Run Text: L7EX6-1-AA

Sample text: L7EX6-1-AA :G0I230000-392B (7)

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:7  
 Run: 8 File: 27SE101D5 S:17 Acq:27-SEP-10 20:55:58  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D7

Amount: 4.69 of which 2.49 named and 2.20 unnamed  
 Conc: 9.38 of which 4.99 named and 4.39 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	29:36	2.11	n	2.01	112607	5.7	y n
						53397	2.6	n n
	2	30:13	3.04	n	0.97	78659	5.4	y n
						25861	1.5	n n
1,2,3,4,7,8-HxCDD	3	30:23	0.71	n	1.13	34664	1.7	n n
						49052	2.2	n n
1,2,3,6,7,8-HxCDD	4	30:29	1.02	n	1.86	57941	3.5	y n
						56835	2.6	n n
1,2,3,7,8,9-HxCDD	5	30:47	0.78	n	2.00	73886	5.4	y n
						94824	3.0	n n
	6	30:58	3.48	n	0.92	85132	5.8	y n
						24470	1.4	n n
	7	31:04	0.52	n	0.49	16027	1.5	n n
						30669	1.0	n n

Run Text: L7EX6-1-AA

Sample text: L7EX6-1-AA :G0I230000-392B (7

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4  
 Run: 8 File: 27SE101D5 S:17 Acq:27-SEP-10 20:55:58  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D7

Amount: 5.33 of which 2.70 named and 2.64 unnamed  
 Conc: 10.67 of which 5.39 named and 5.28 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	32:22	1.66	n	2.78	196909	6.9	y	n
						118818	6.4	y	n
	2	33:18	0.65	n	<del>2.31</del>	96327	4.2	y	n
						147207	10.1	y	n
1,2,3,4,7,8,9-HpCDF	3	33:34	1.13	y	2.61	105465	4.0	y	n
						93732	5.7	y	n
	4	34:47	0.98	y	<del>2.97</del>	120344	4.2	y	n
						122228	7.2	y	n

*Not Real*

5.39

Run Text: L7EX6-1-AA

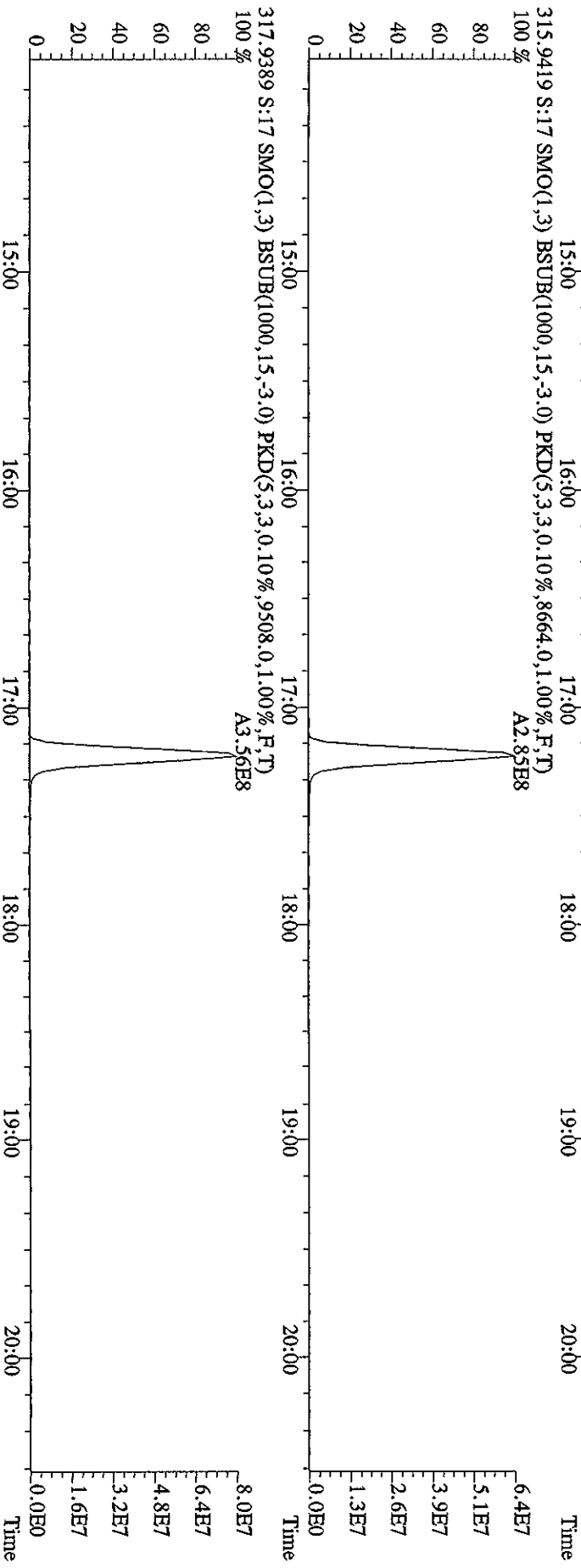
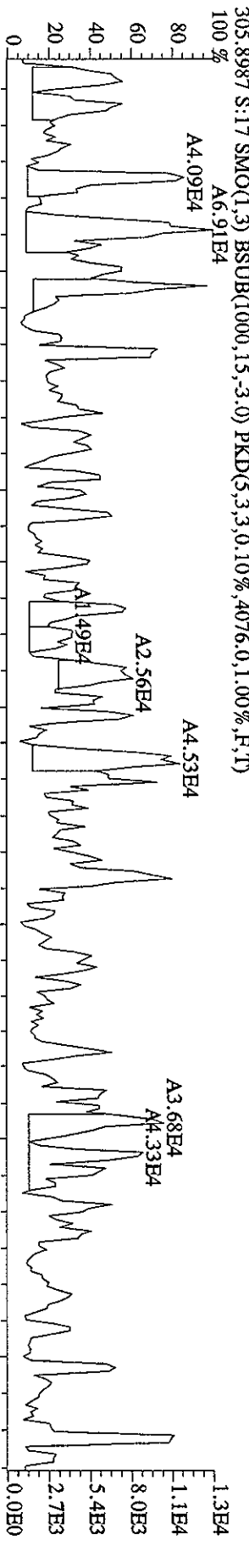
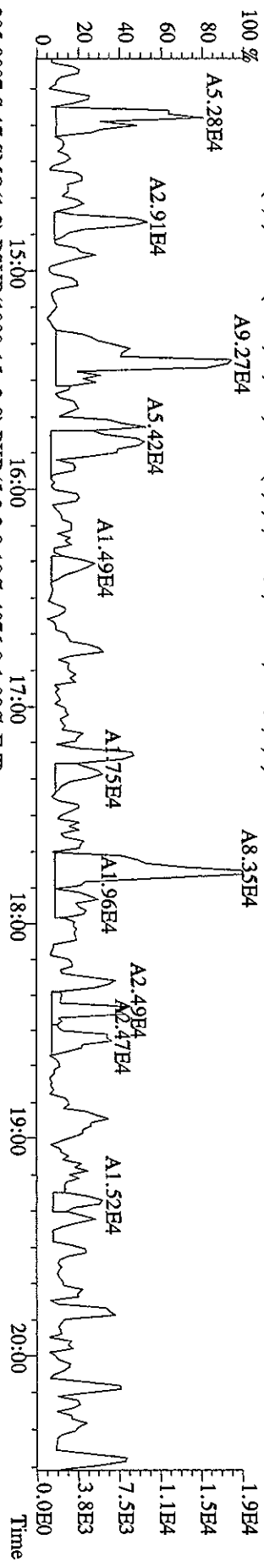
Sample text: L7EX6-1-AA :G0I230000-392B (¶)

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:5  
 Run: 8 File: 27SE101D5 S:17 Acq:27-SEP-10 20:55:58  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D¶

Amount: 8.76 of which 4.20 named and 4.56 unnamed  
 Conc: 17.52 of which 8.39 named and 9.12 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:22	1.88	n	1.85	79495	5.9	y n
						42197	7.3	y n
	2	32:39	0.93	y	2.49	76773	5.3	y n
						82202	11.5	y n
1,2,3,4,6,7,8-HpCDD	3	33:17	1.20	n	8.39	315936	17.0	y n
						262343	30.9	y n
	4	33:33	1.22	n	1.85	70715	5.7	y n
						57984	4.7	y n
	5	34:47	1.23	n	3.43	131414	10.8	y n
						107143	18.7	y n

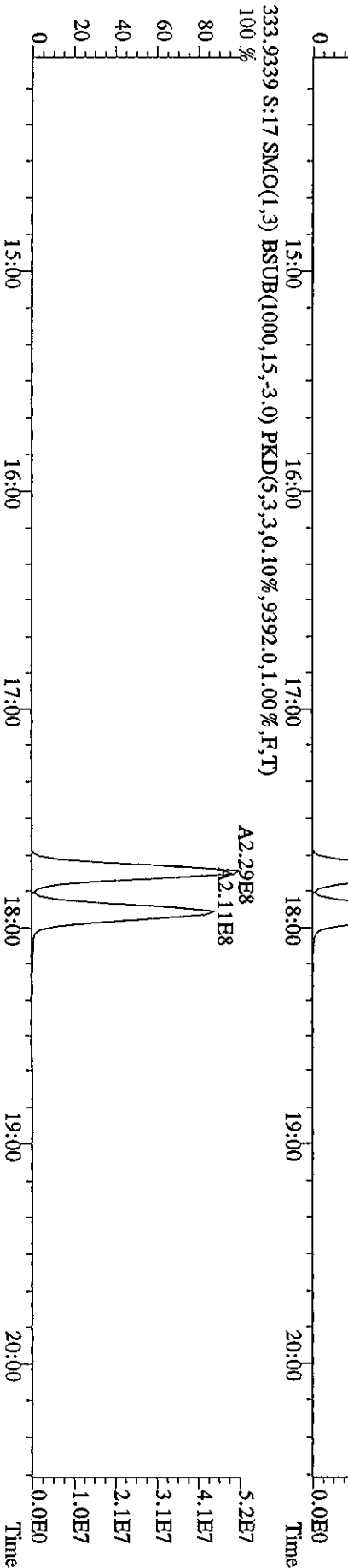
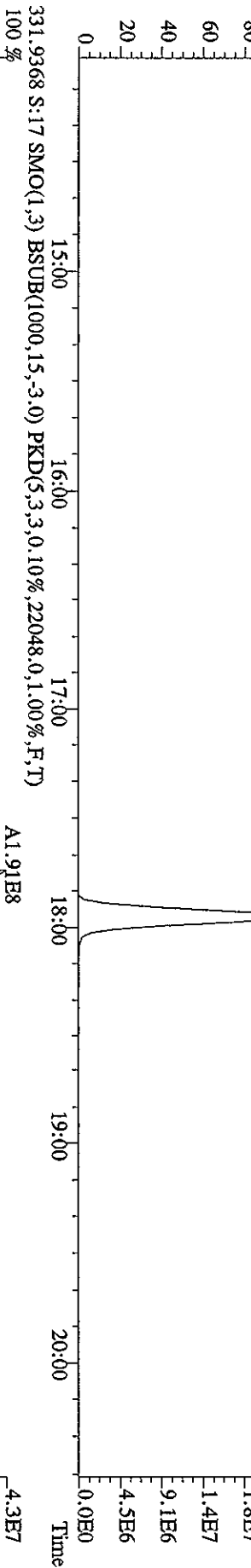
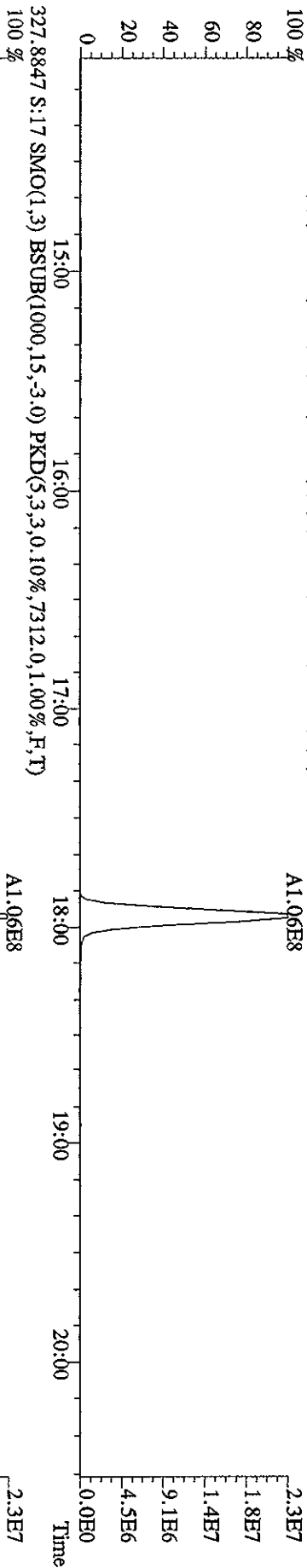
File: 27SE101D5 #1-382 Acq: 27-SEP-2010 20:55:58 GC EI+ Voltage SIR 70SE  
 Sample#17 Text: L7EX6-1-AA : G01230000-392B (491) Exp: DIOXINRES  
 303.9016 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.3416,0,1,1.00%,F,T)



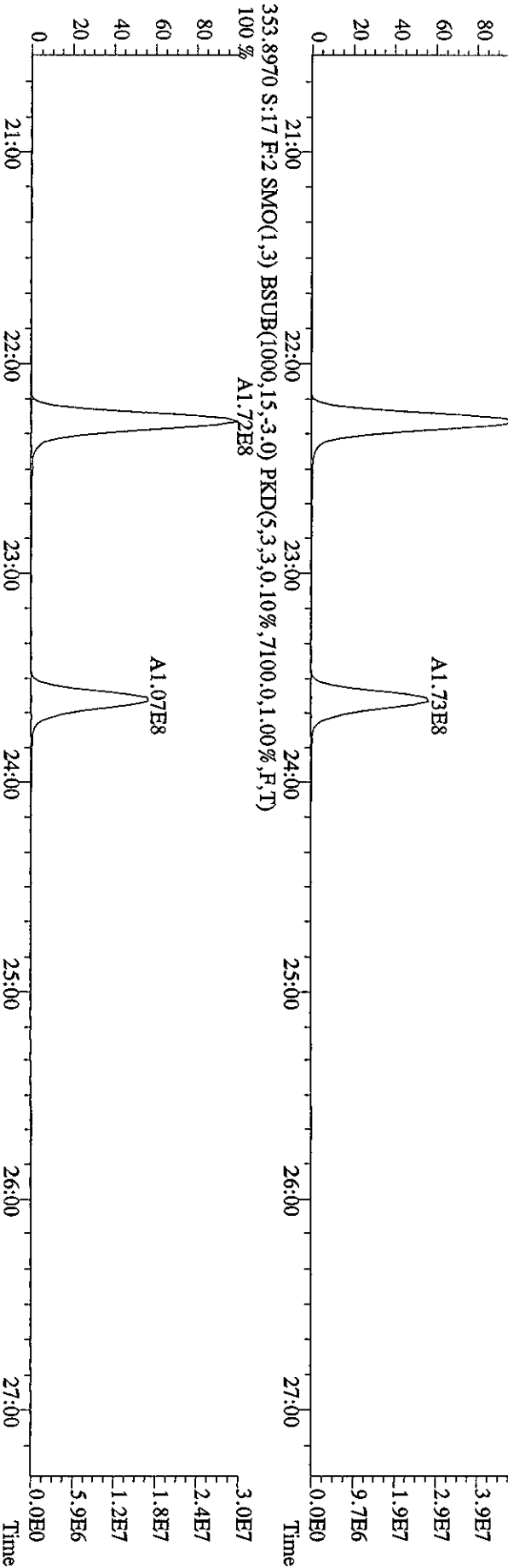
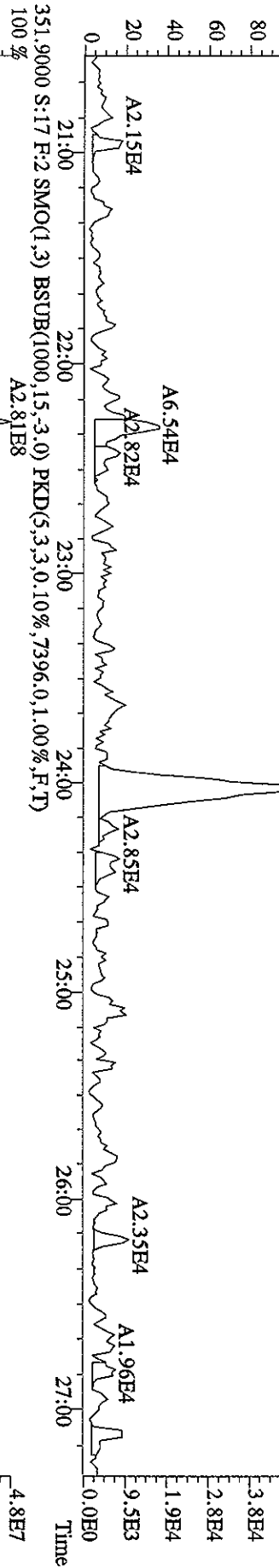
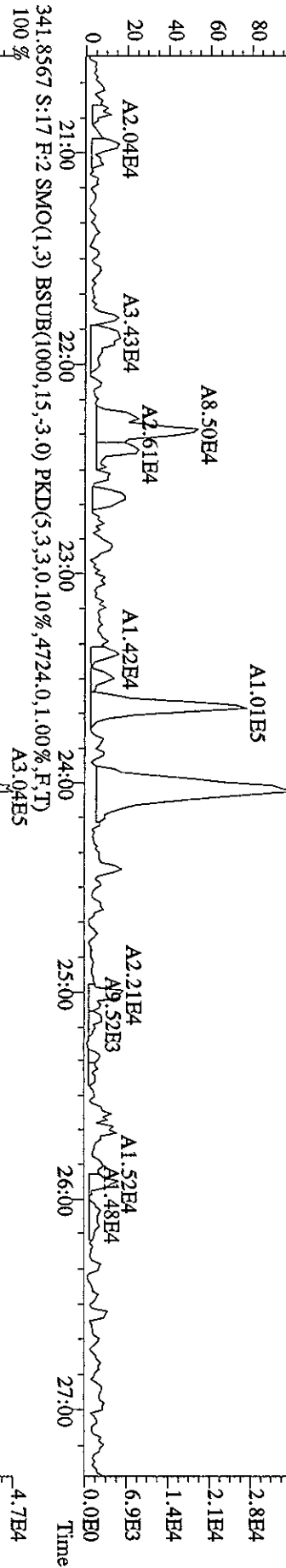




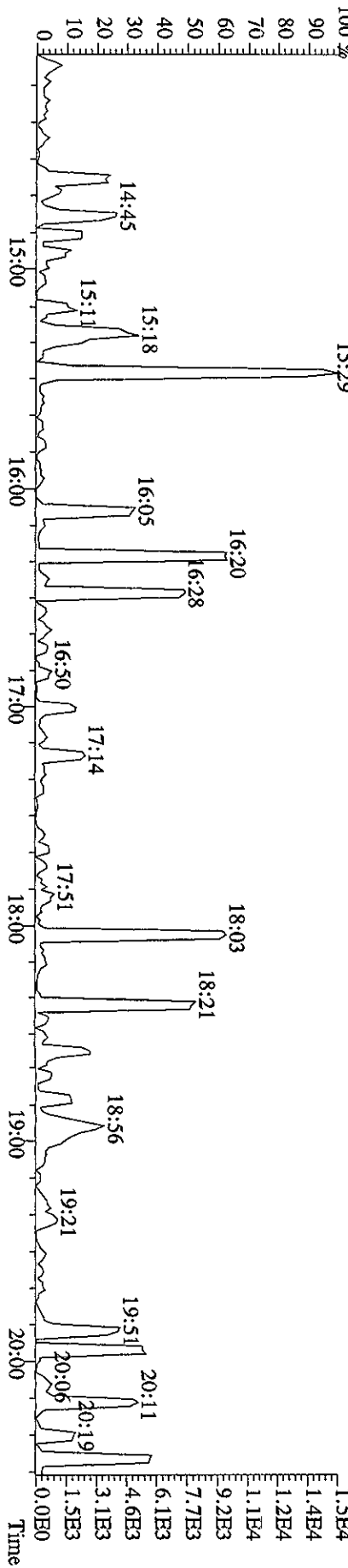
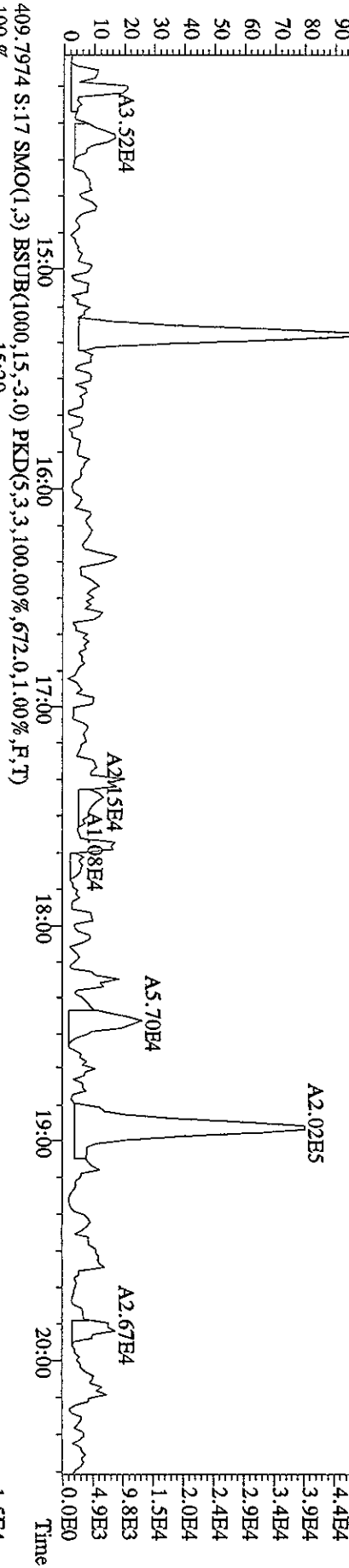
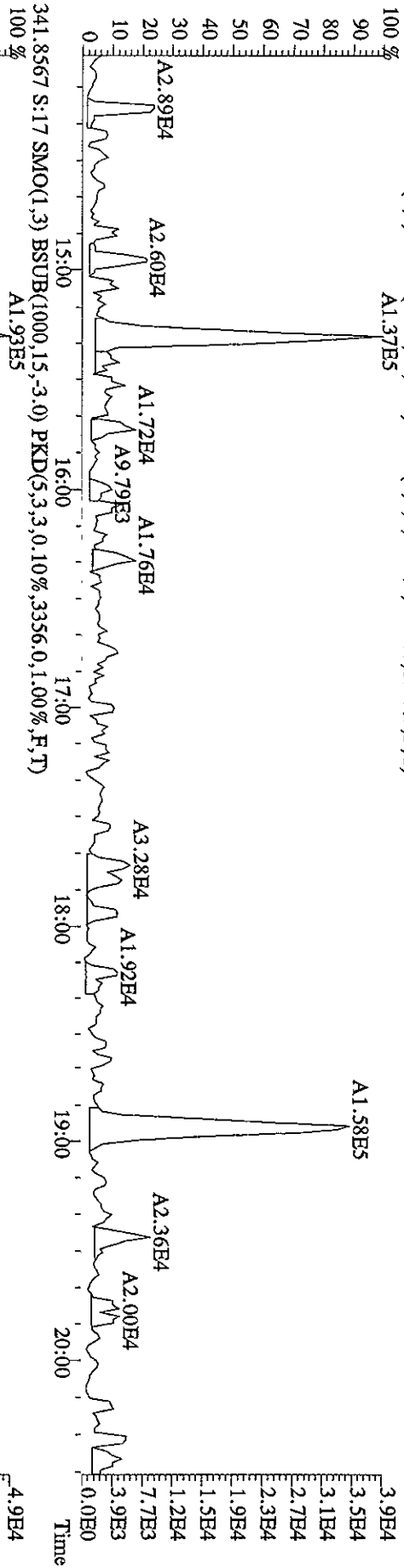
File:27SEI01D5 #1-382 Acq:27-SEP-2010 20:55:58 GC EI+ Voltage SIR 705E  
 Sample#17 Text:L7EX6-1-AA :G0I230000-392B (491) Exp:DIOXINRES  
 327.8847 S:17 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7312,0,1,00%,F,T)  
 100%



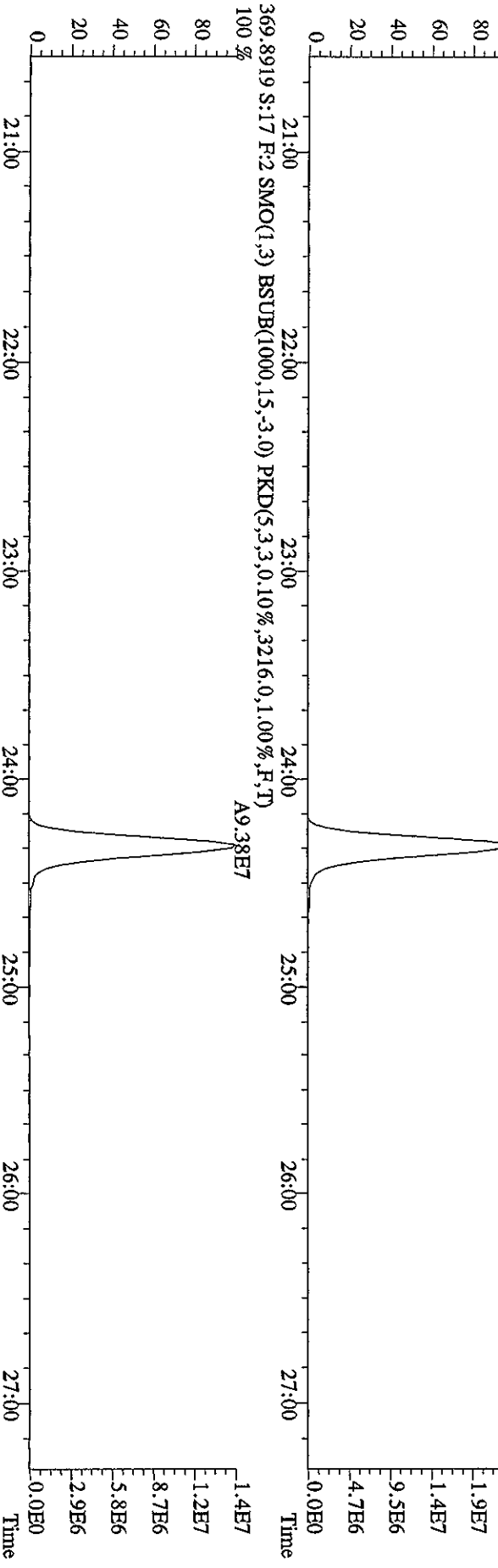
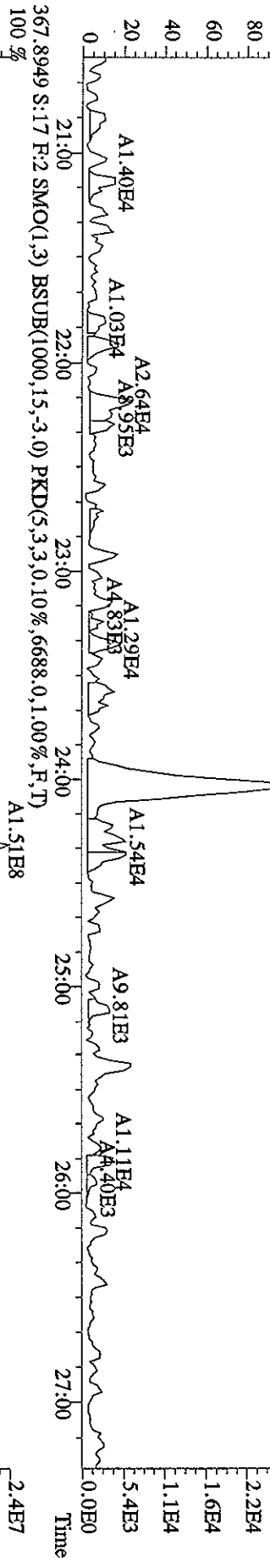
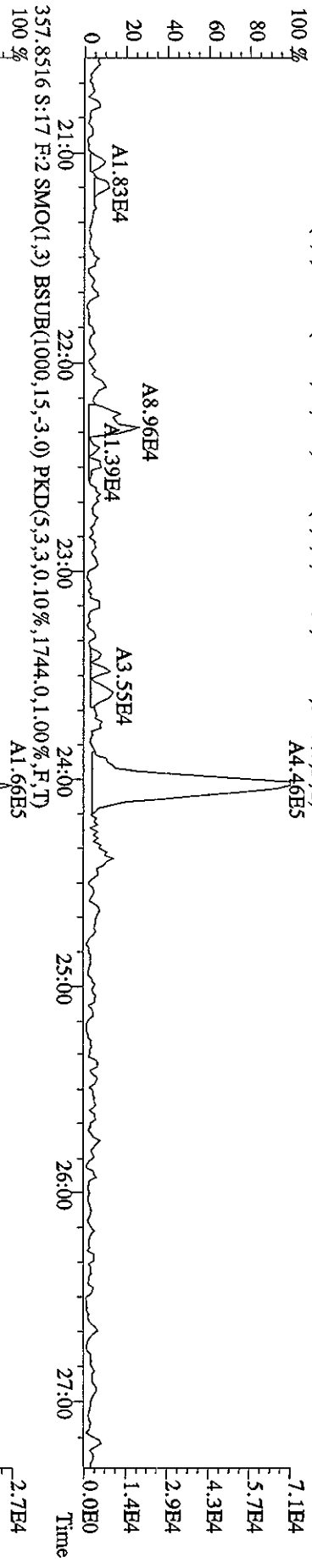
File:27SEI01D5 #1-422 Acq:27-SEP-2010 20:55:58 GC EI+ Voltage SFR 70SE  
 Sample#17 Text:L7EX6-1-AA :G0I23000-392B (491) Exp:DIOXINRES  
 339.8597 S:17 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2136,0,1.00%,F,T) A2.07E5



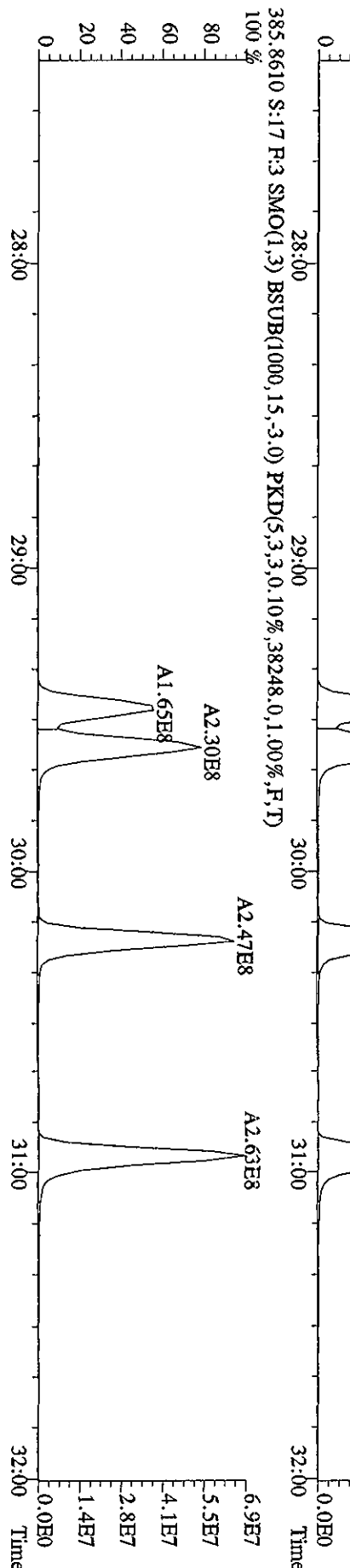
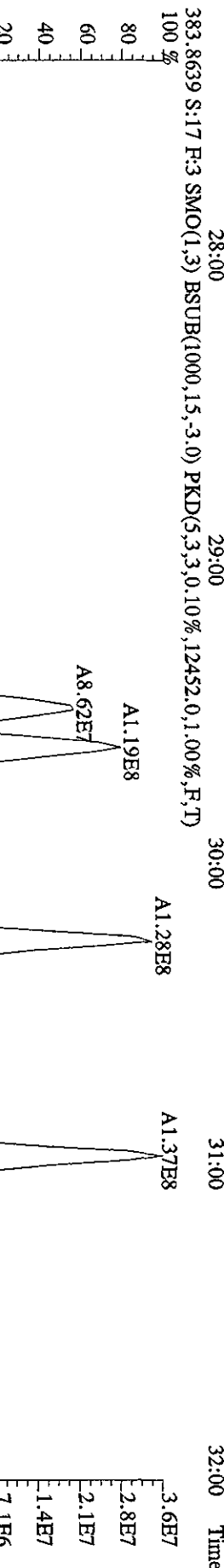
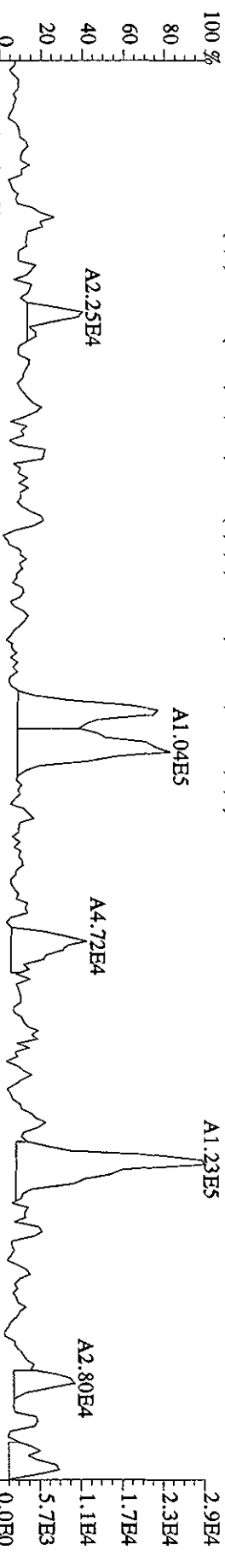
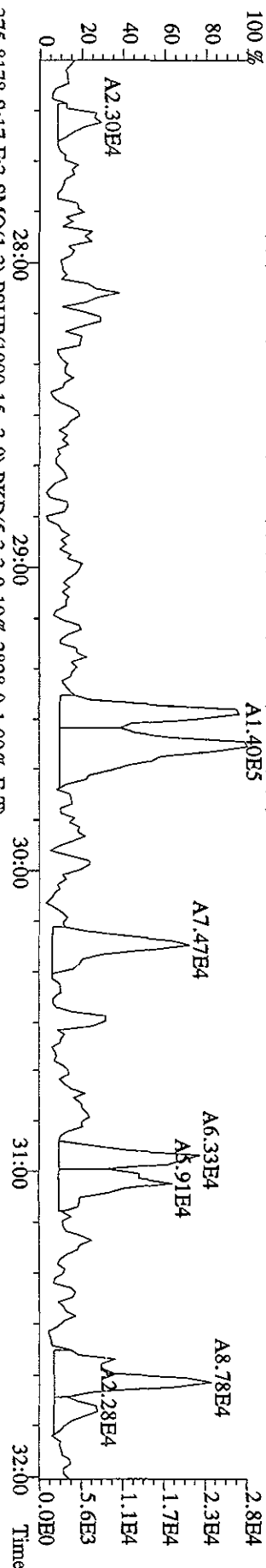
File:27SBE101D5 #1-382 Acq:27-SEP-2010 20:55:58 GC EI+ Voltage SIR 70SE  
 Sample#17 Text:L7EX6-1-AA :G0D230000-392B (491) Exp:DIOXINRES  
 339.8597 S:17 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2264,0,1.00%,F,T)  
 100% A1.37E5



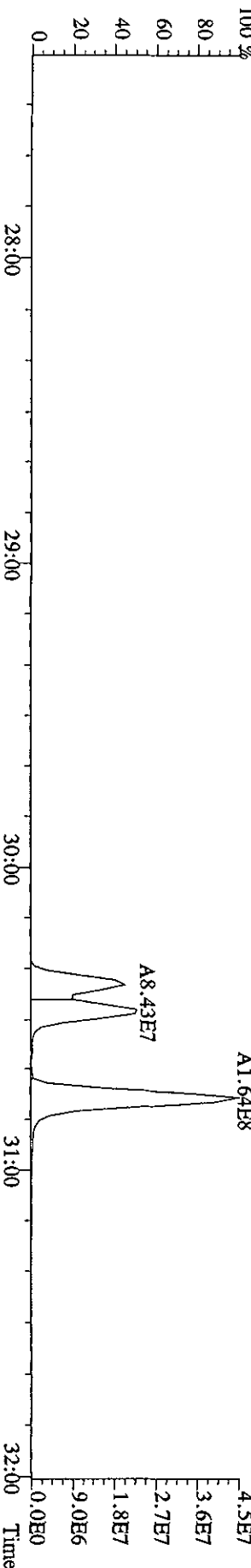
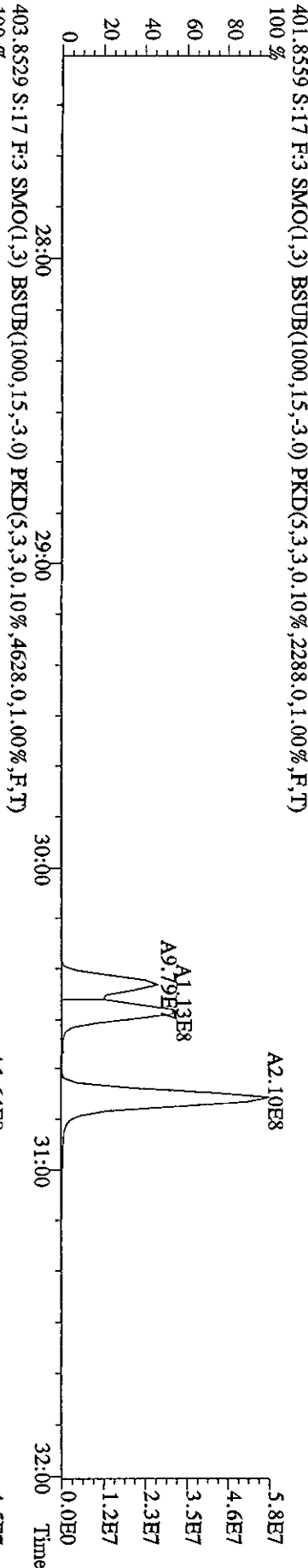
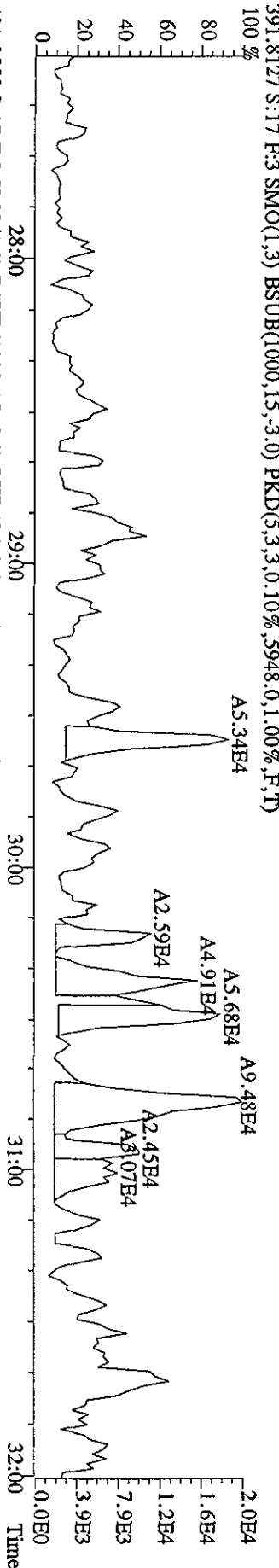
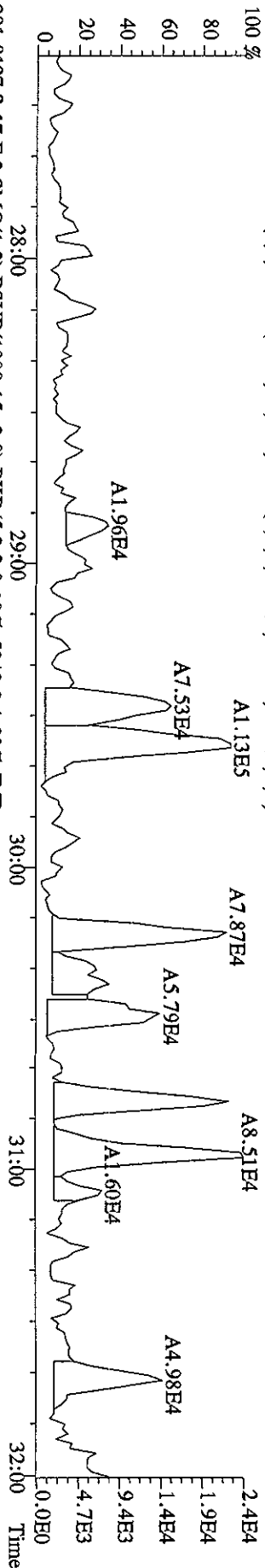
File: 27SEI01D5 #1-422 Acq: 27-SEP-2010 20:55:58 GC FI+ Voltage SIR 70SE  
 Sample#17 Text: L7EX6-1-AA : G0I230000-392B (491) Exp: DIOXINRES  
 357.8516 S:17 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1744,0,1.00%,F,T)  
 100%



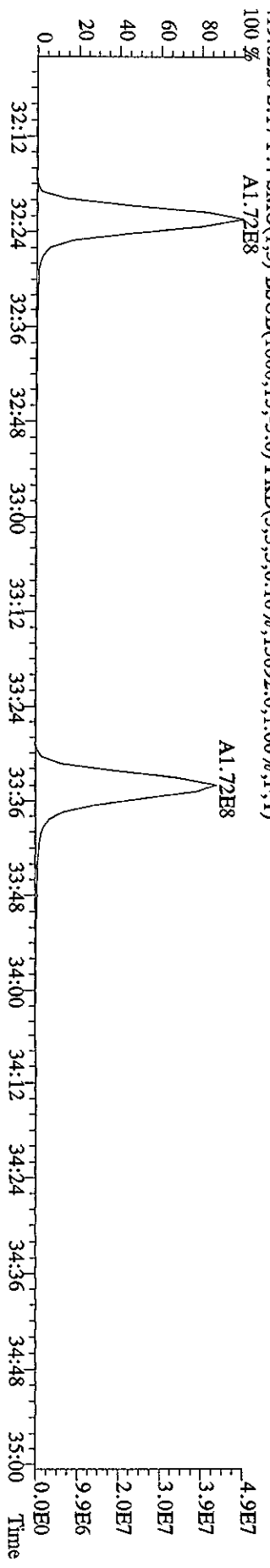
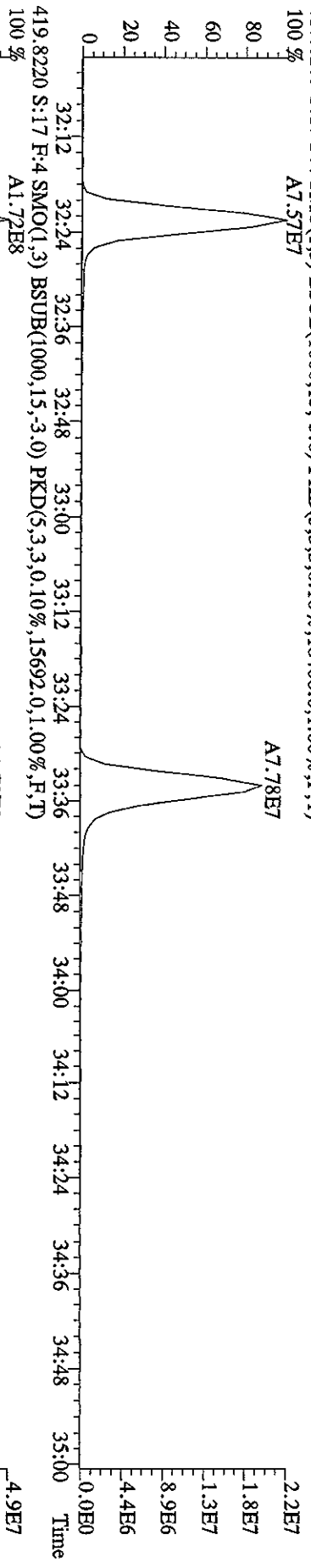
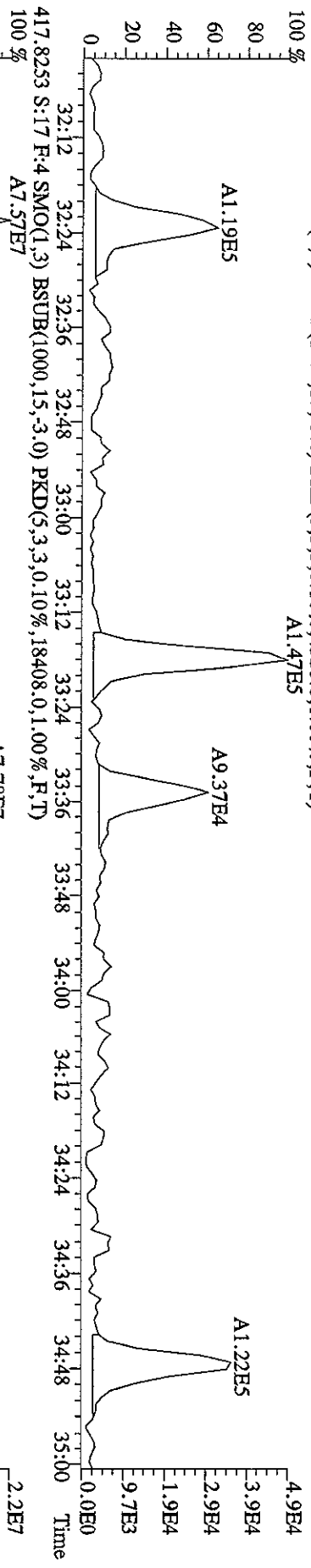
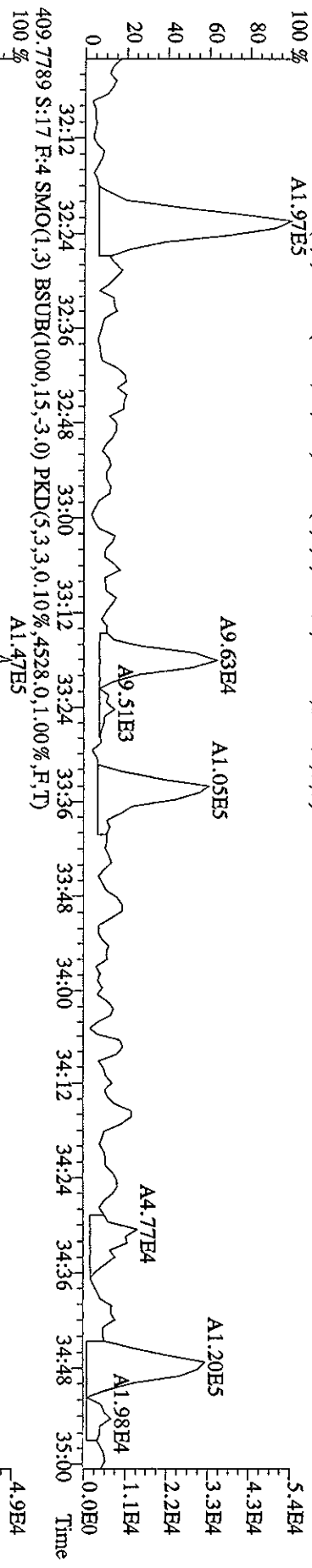
File:27SEI01D5 #1-301 Acq:27-SEP-2010 20:55:58 GC EI+ Voltage SIR 70SE  
 Sample#17 Text:L7EX6-1-AA :G0123000-392B (491) Exp:DIOXINRES  
 373.8208 S:17 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4628.0,1.00%,F,T)



File: 27SE101D5 #1-301 Acq: 27-SEP-2010 20:55:58 GC BI+ Voltage SIR 70SE  
 Sample#17 Text: L7EX6-1-AA : G01230000-392B (491) Exp: DIOXINRES  
 389.8157 S:17 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3684.0,1.00%,F,T)



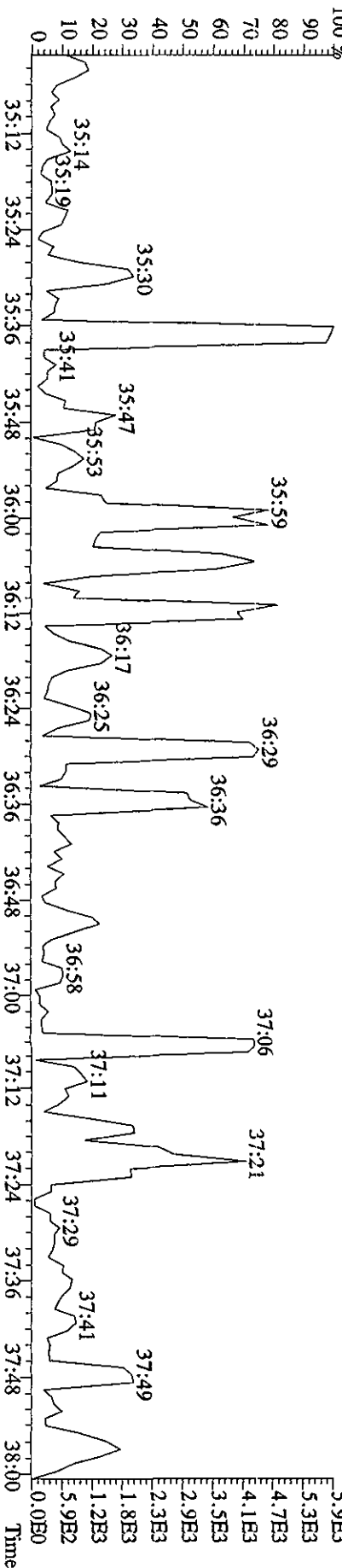
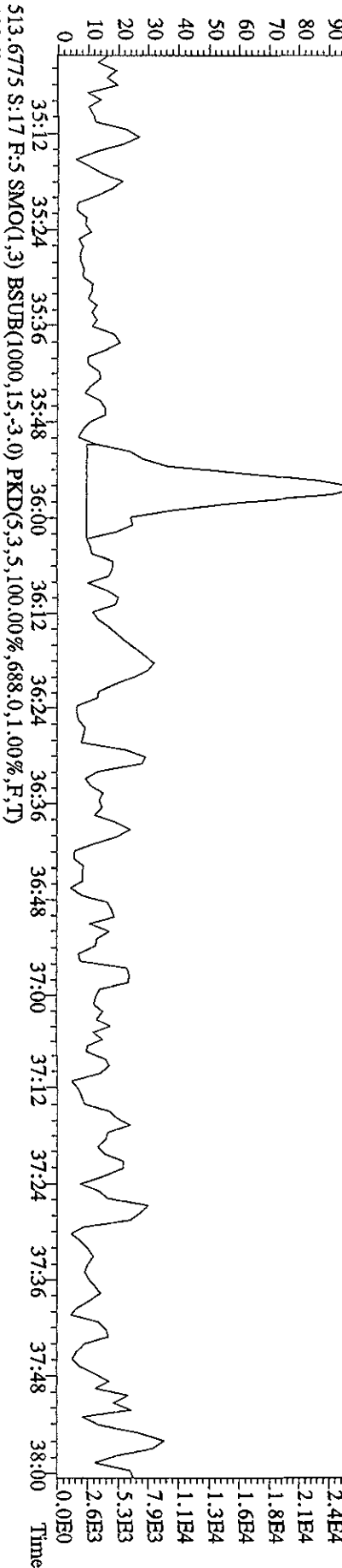
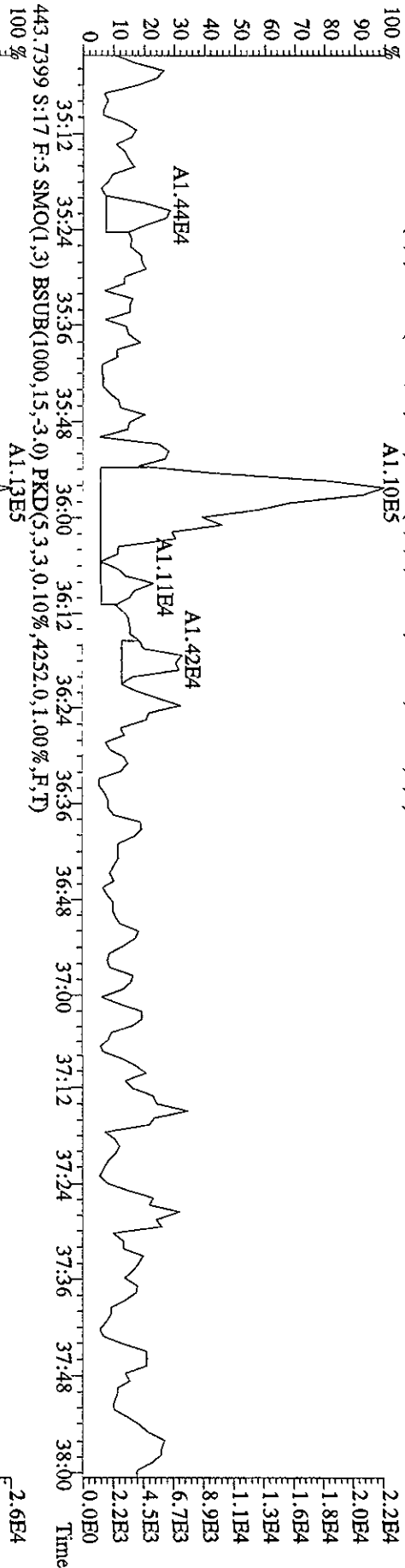
File:27SE101D5 #1-203 Acq:27-SEP-2010 20:55:58 GC EI+ Voltage SIR 70SE  
 Sample#17 Text:L7EX6-1-AA :G0123000-392B (491) Exp:DIOXINRES  
 407.7818 S:17 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7352.0,1.00%,F,T)  
 100% A1.97E5



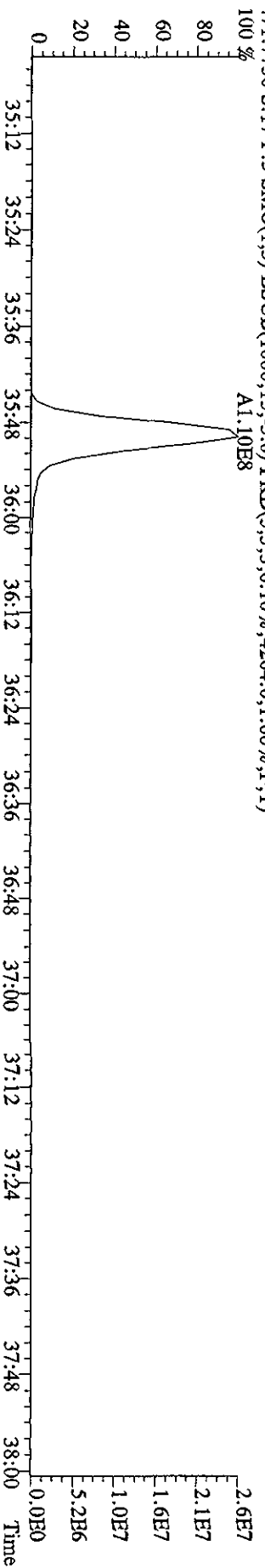
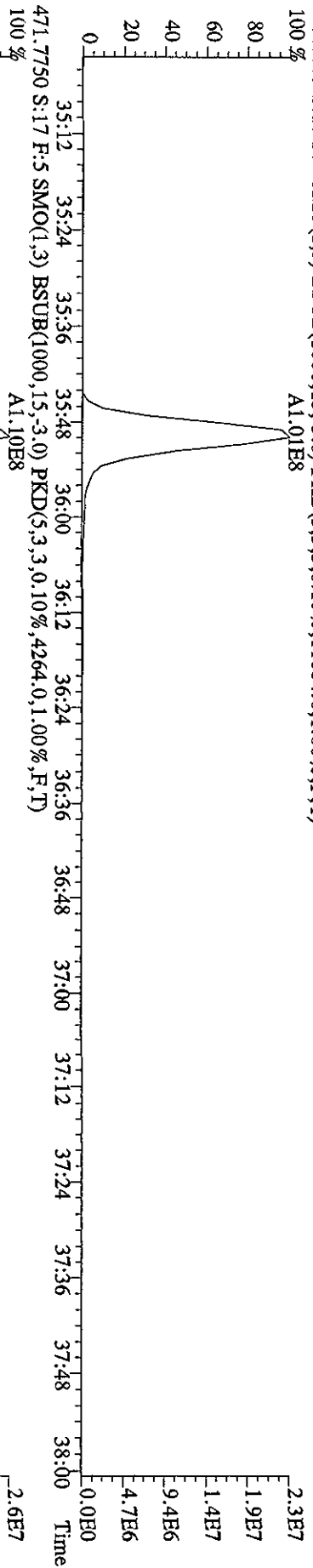
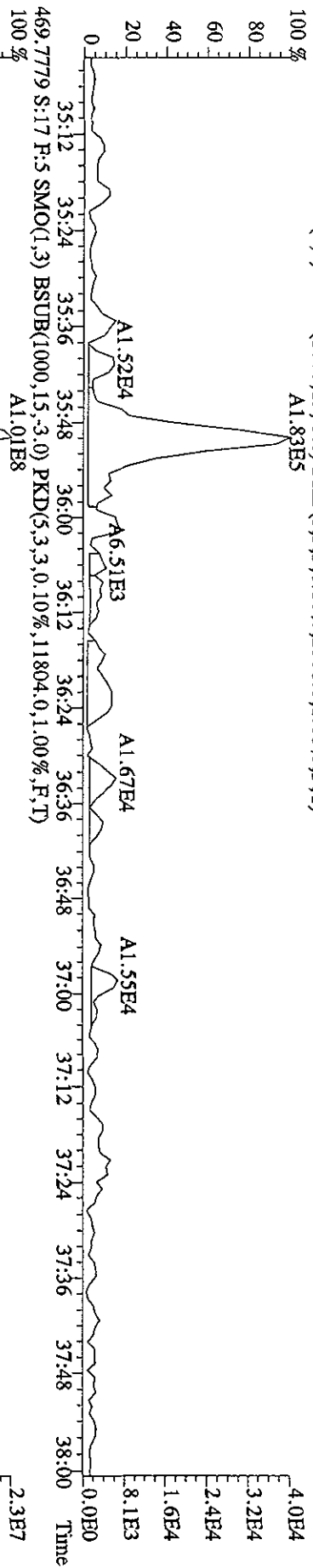
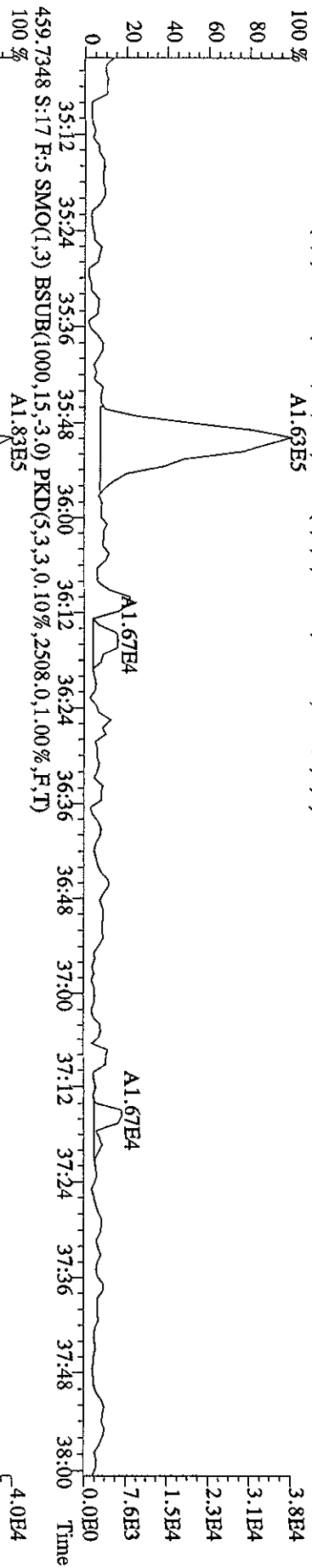




File: 27SE101D5 #1-196 Acq: 27-SEP-2010 20:55:58 GC EI+ Voltage SIR 70SE  
 Sample#17 Text: L7EX6-1-AA : G01230000-392B (491) Exp: DIOXINRES  
 441.7428 S:17 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3708,0,1,00%,F,T)  
 A1.10E5



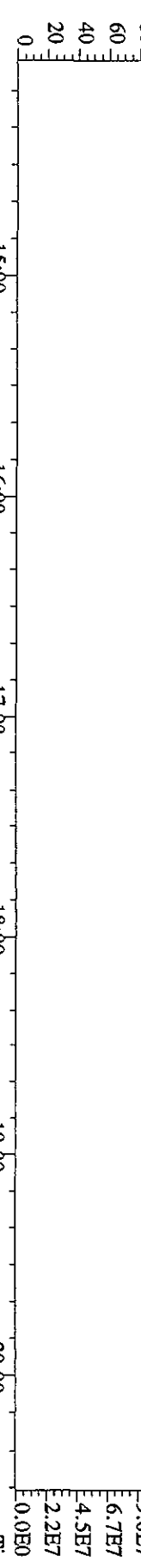
File:27SSE101D5 #1-196 Acq:27-SEP-2010 20:55:58 GC EI+ Voltage SIR 70SE  
 Sample#17 Text:L7EX6-1-AA :G01230000-392B (491) Exp:DIOXINRES  
 457.7377 S:17 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3336.0,1.00%,F,T) A1.63E5



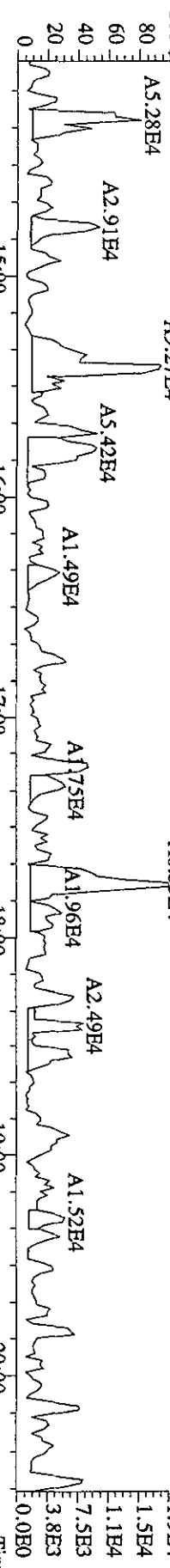
File: 27SEI01D5 #1-382 Acq: 27-SBP-2010 20:55:58 GC EI+ Voltage SIR 70SE

Sample#17 Text: L7EX6-1-AA : G0I230000-392B (491) Exp: DIOXINRES

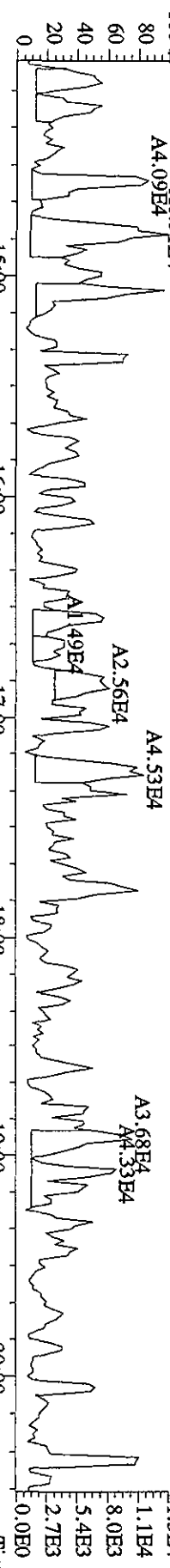
292.9825 S:17 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



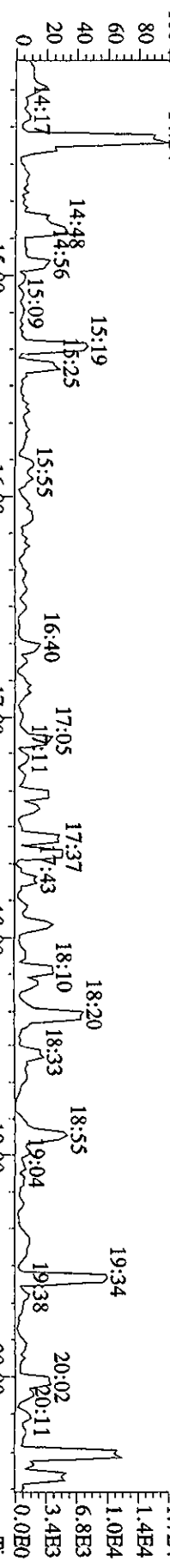
303.9016 S:17 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3416.0,1.00%,F,T)



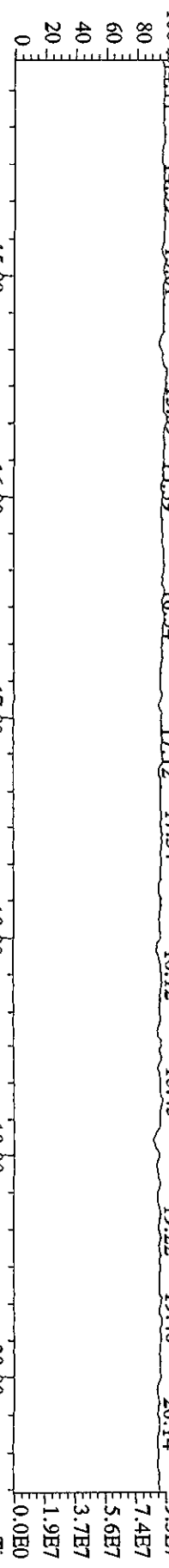
305.8987 S:17 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4076.0,1.00%,F,T)



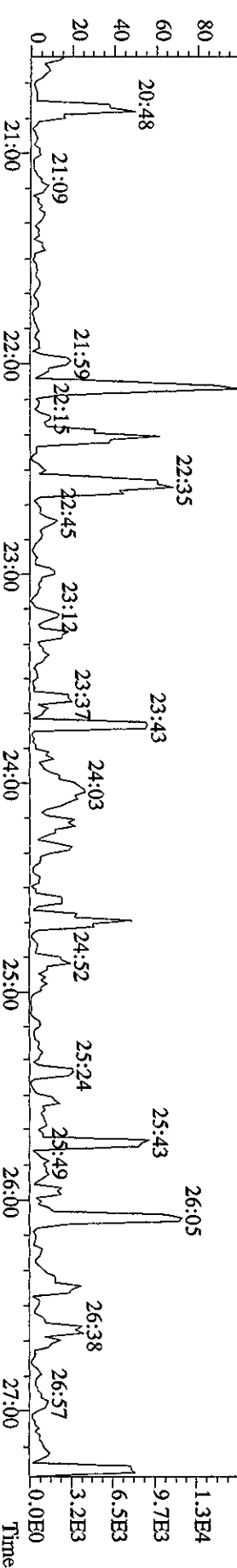
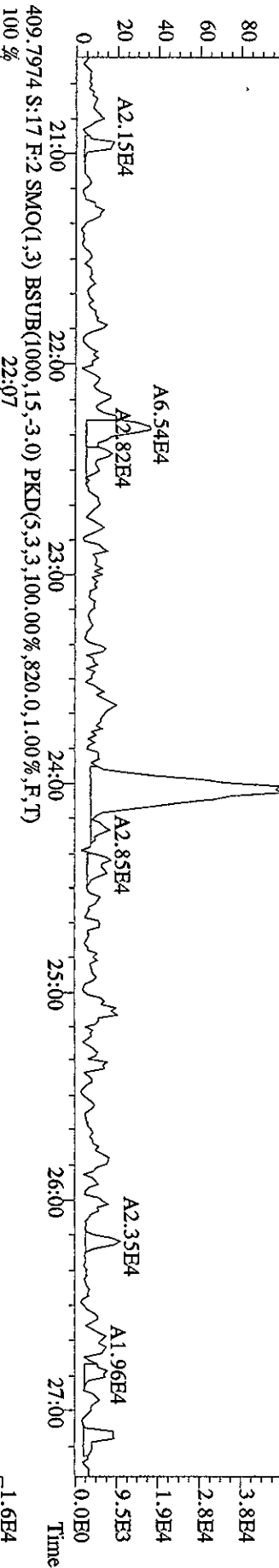
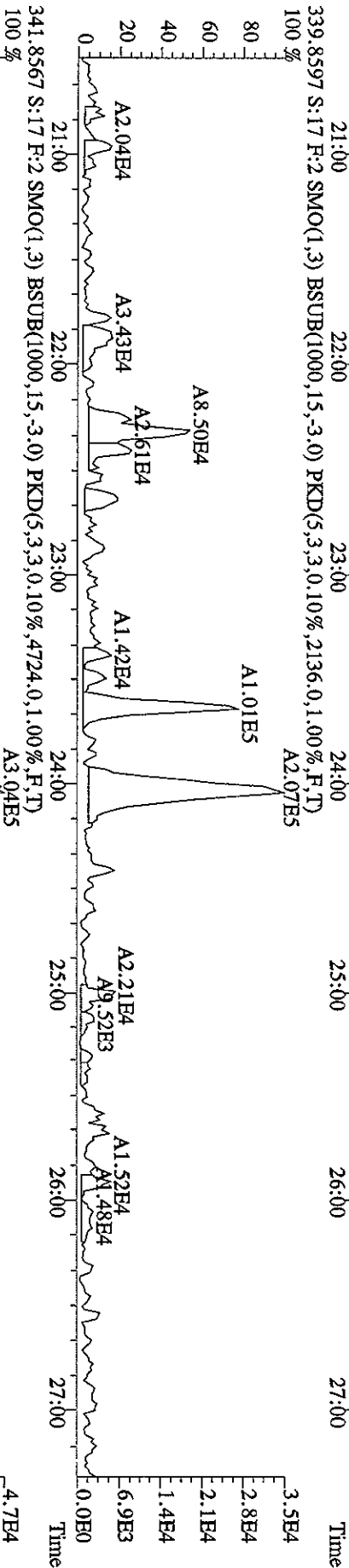
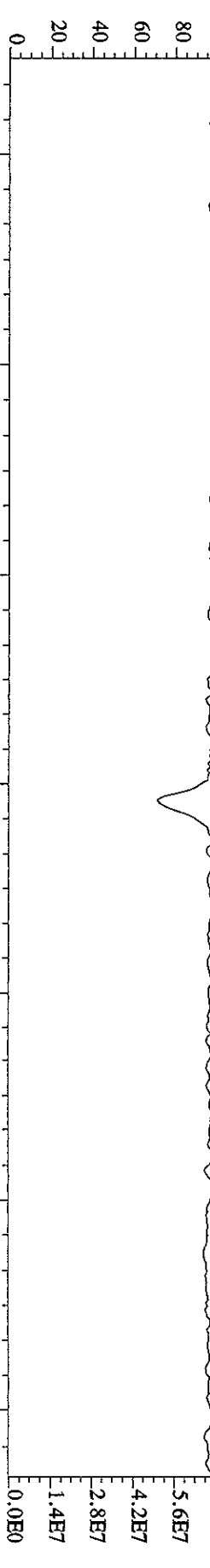
375.8364 S:17 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1408.0,1.00%,F,T)



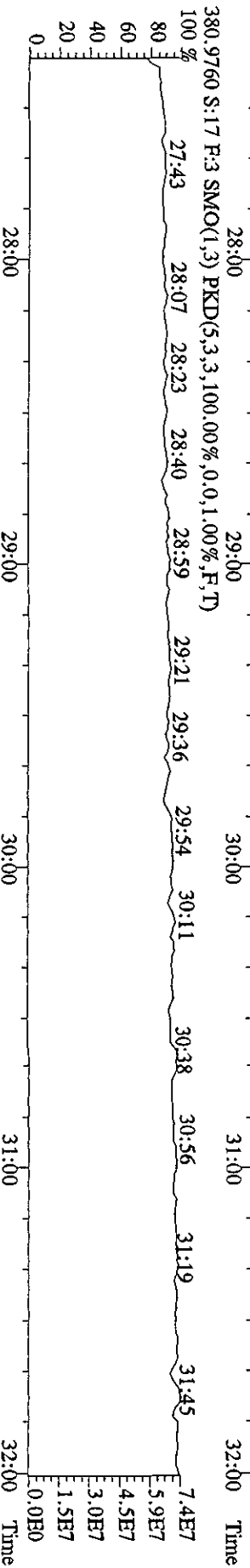
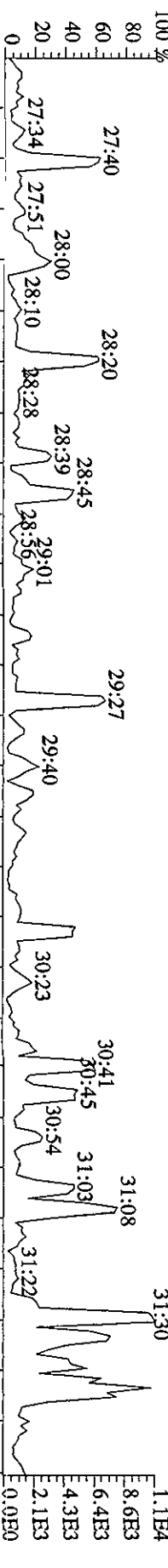
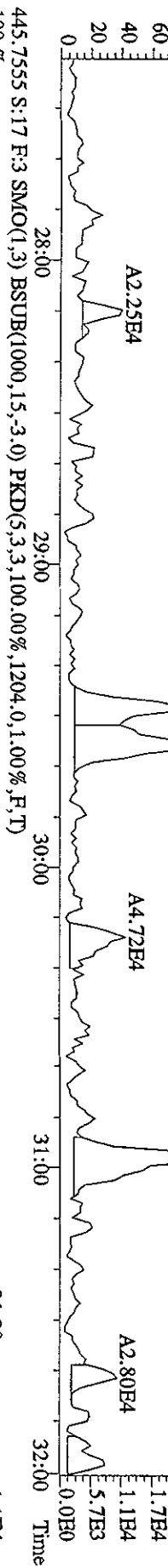
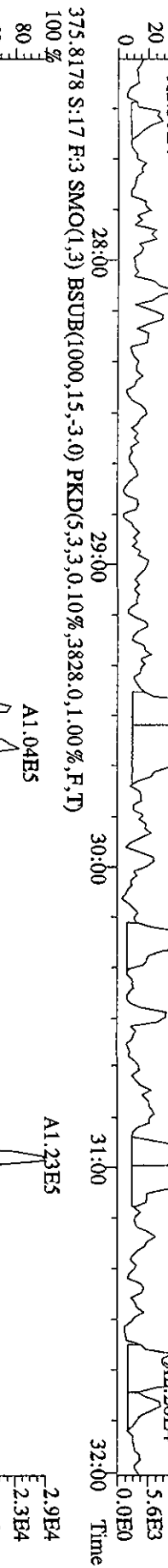
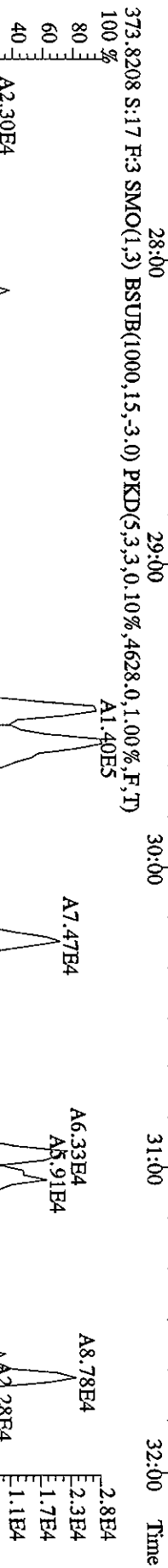
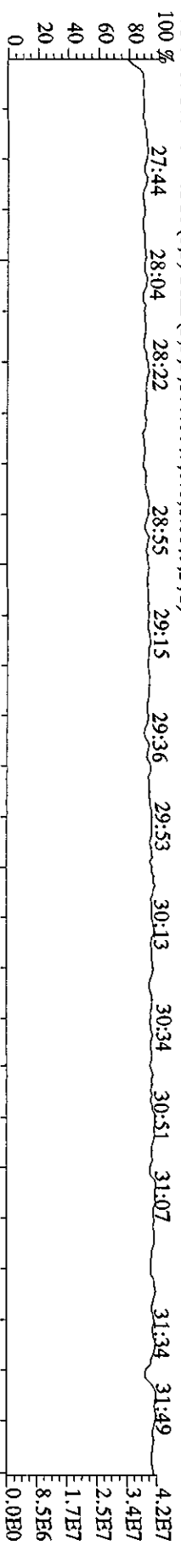
330.9792 S:17 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



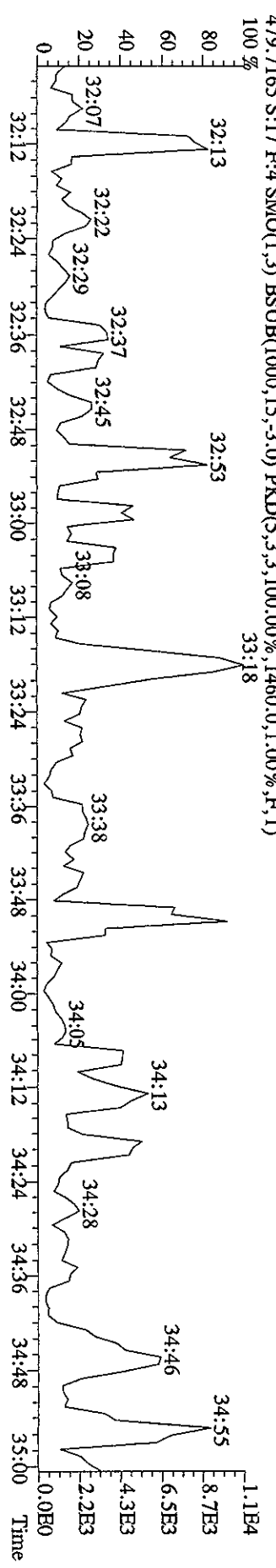
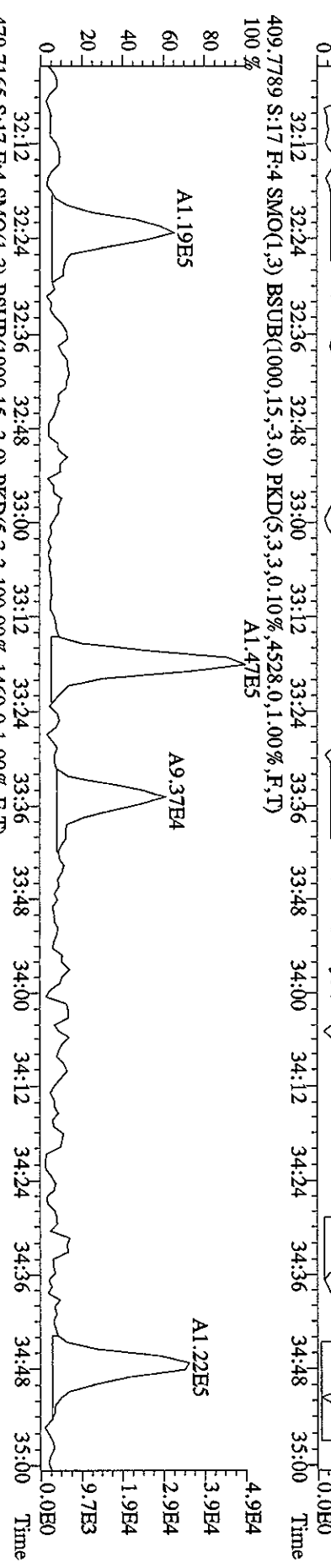
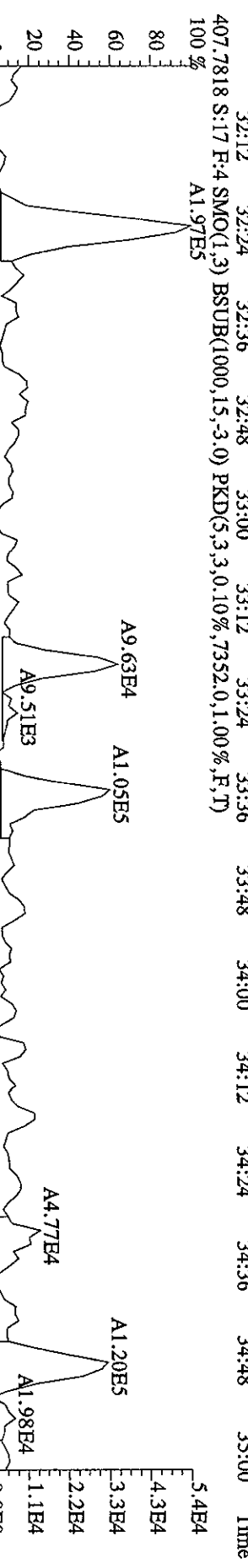
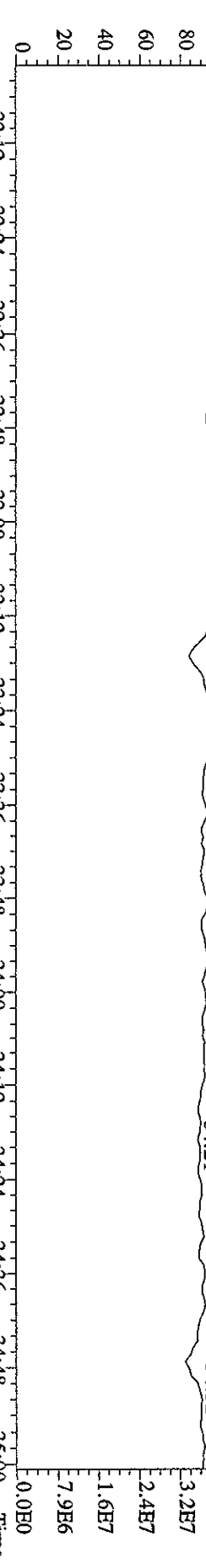
File: 27SEI01D5 #1-422 Acq: 27-SEP-2010 20:55:58 GC EI+ Voltage SIR 70SE  
 Sample#17 Text: L7EX6-1-AA :G0I230000-392B (491) Exp: DIOXINRES  
 342.9792 S:17 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100% 20:46 21:23 21:55 22:29 23:00 23:23 23:49 24:16 25:12 25:35 25:56 26:34 27:02



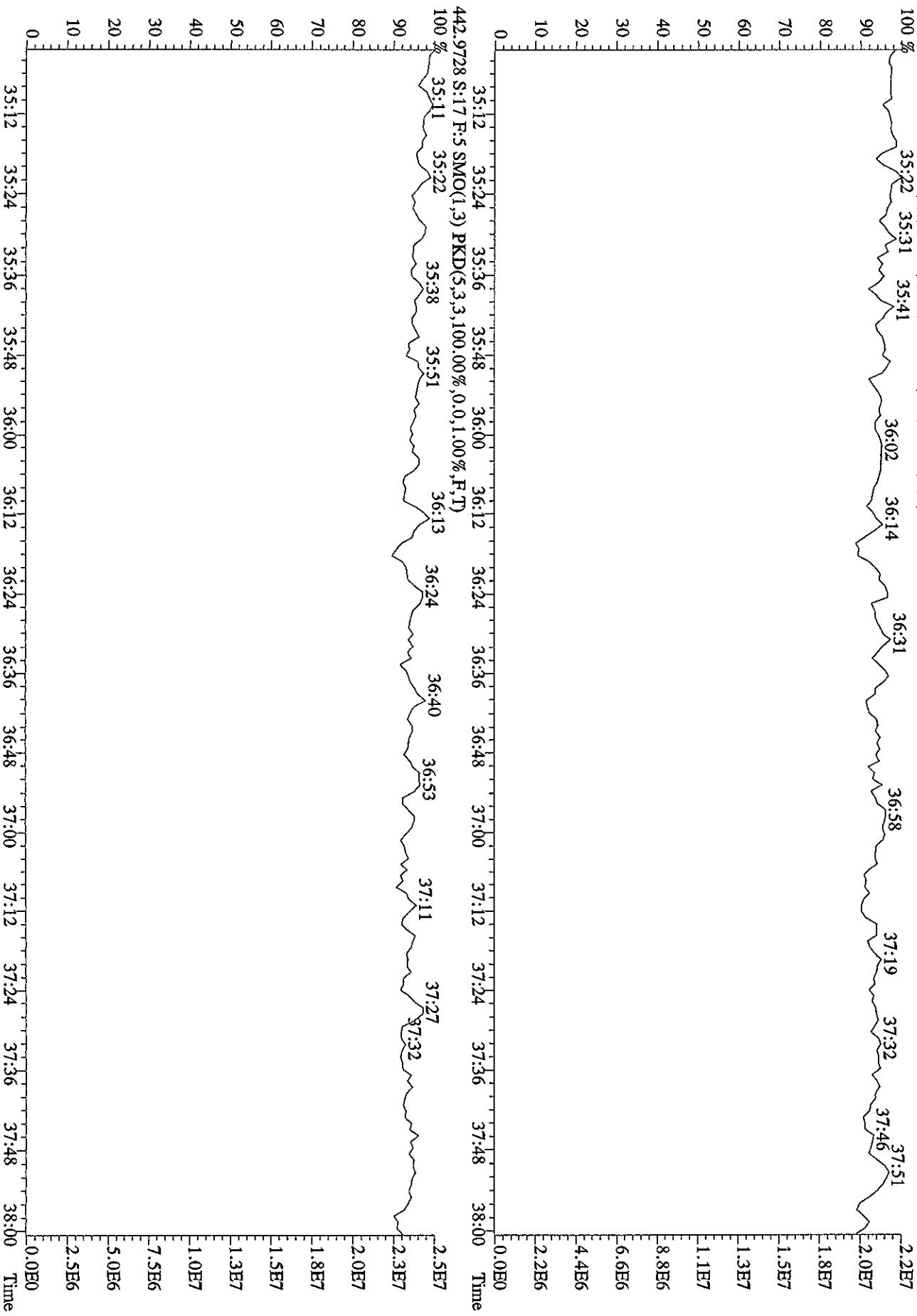
File: 27SE101D5 #1-301 Acq: 27-SEP-2010 20:55:58 GC EI+ Voltage SIR 70SE  
 Sample#17 Text: LTEX6-1-AA : G01230000-392B (491) Exp: DIOXINRES  
 392.9760 S:17 F:3 SMO(1,3) PKD(5,3,3,100,00%,0,0,1.00%,F,T)  
 27:44 28:04 28:22 28:55 29:15 29:36 29:53 30:13 30:34 30:51 31:07 31:34 31:49



File: 27SBE101D5 #1-203 Acq: 27-SEP-2010 20:55:58 GC EI+ Voltage SIR 70SE  
 Sample#17 Text: L7EX6-1-AA : G0I230000-392B (491) Exp: DIOXINRES  
 430.9728 S:17 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100% 32:12 32:22 32:38 32:53 33:09 33:24 33:37 33:56 34:21 34:40 34:52



File:27SE101D5 #1-196 Acq:27-SEP-2010 20:55:58 GC EI+ Voltage SIR 70SE  
 Sample#17 Text:1,7EX6-1-AA :G0I230000-392B (491) Exp:DIOXINRES  
 454.9728 S:17 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: L7EX6-1-AC      Sample text: L7EX6-1-AC :G0I230000-392C  
 Run #17 Filename: 27SE101D5    S: 28    I: 1      Results: 27SE101D5TO9  
 Acquired: 28-SEP-10    04:48:30      Processed: 28-SEP-10    09:23:01  
 Run: 27SE101D5      Analyte: TO9      Cal: TO90914101D5  
 Factor 1: 1600.000      Factor 2: 20.000      Sample size: 0.500000Sample

*09  
09-29-10*

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	460325000	0.81 y	17:44	-	263.47	-	-	n
13C-2,3,7,8-TCDF	711799000	0.81 y	17:12	1.56	3957.08	1.66	98.9	n
2,3,7,8-TCDF	74399900	0.78 y	17:13	0.98	425.00	0.51	-	n
Total TCDF	74777949	0.64 n	16:52	0.98	427.16	0.51	-	n
13C-2,3,7,8-TCDD	414444000	0.82 y	17:55	0.92	3910.69	2.06	97.8	n
2,3,7,8-TCDD	44483700	0.76 y	17:56	1.03	416.16	0.97	-	n
Total TCDD	44585950	3.53 n	17:12	1.03	417.12	0.97	-	n
37Cl-2,3,7,8-TCDD	396828	1.00 y	17:56	1.23	3.12	1.43	0.2	n
13C-1,2,3,7,8-PeCDF	499112000	1.61 y	22:16	1.05	4120.48	1.66	103.0	n
1,2,3,7,8-PeCDF	299095000	1.61 y	22:17	1.09	2194.75	1.79	-	n
2,3,4,7,8-PeCDF	199417800	1.62 y	23:37	1.02	1570.44	1.92	-	n
Total F2 PeCDF	501730289	1.61 y	22:17	1.05	3789.63	1.86	-	n
Total F1 PeCDF	658748	0.88 n	15:17	1.05	5.00	0.74	-	n
13C-1,2,3,7,8-PeCDD	273561000	1.65 y	24:18	0.56	4238.29	1.37	106.0	n
1,2,3,7,8-PeCDD	153486900	1.62 y	24:20	1.07	2096.79	1.83	-	n
Total PeCDD	153870690	3.05 n	24:01	1.07	2102.03	1.83	-	n
13C-1,2,3,7,8,9-HxCDD	408751000	1.29 y	30:45	-	249.07	-	-	n
13C-1,2,3,4,7,8-HxCDF	314830000	0.51 y	29:27	0.99	3109.36	8.53	77.7	n
1,2,3,4,7,8-HxCDF	217819200	1.26 y	29:28	1.26	2194.74	1.72	-	n
1,2,3,6,7,8-HxCDF	267211000	1.26 y	29:35	1.53	2217.32	1.41	-	n
2,3,4,6,7,8-HxCDF	284139000	1.24 y	30:14	1.41	2565.19	1.54	-	n
1,2,3,7,8,9-HxCDF	289442000	1.27 y	30:57	1.40	2634.03	1.55	-	n
Total HxCDF	1058611200	1.26 y	29:28	1.40	9611.27	1.55	-	n
13C-1,2,3,6,7,8-HxCDD	248706000	1.30 y	30:28	0.74	3291.21	1.08	82.3	n
1,2,3,4,7,8-HxCDD	123327800	1.27 y	30:23	1.12	1771.31	1.58	-	n
1,2,3,6,7,8-HxCDD	148916500	1.29 y	30:29	1.14	2098.71	1.55	-	n
1,2,3,7,8,9-HxCDD	210270400	1.27 y	30:46	1.35	2497.98	1.30	-	n
Total HxCDD	482514700	1.27 y	30:23	1.20	6368.00	1.47	-	n
13C-1,2,3,4,6,7,8-HpCDF	296725400	0.44 y	32:22	0.96	3037.04	4.19	75.9	n
1,2,3,4,6,7,8-HpCDF	223964000	1.05 y	32:22	1.41	2144.04	3.21	-	n
1,2,3,4,7,8,9-HpCDF	217403000	1.06 y	33:35	1.24	2371.54	3.66	-	n
Total HpCDF	441767489	1.05 y	32:22	1.32	4519.66	3.42	-	n
13C-1,2,3,4,6,7,8-HpCDD	254764000	1.07 y	33:14	0.71	3500.56	3.58	87.5	n
1,2,3,4,6,7,8-HpCDD	153908900	1.06 y	33:14	1.13	2130.30	3.11	-	n
Total HpCDD	154247665	0.94 y	32:39	1.13	2134.99	3.11	-	n
13C-OCDD	241759000	0.92 y	35:50	0.35	6708.06	2.21	83.9	n
OCDF	243686000	0.90 y	35:57	2.12	3808.13	2.45	-	n
OCDD	161211800	0.91 y	35:50	1.37	3890.74	2.79	-	n

*2634.03 high*

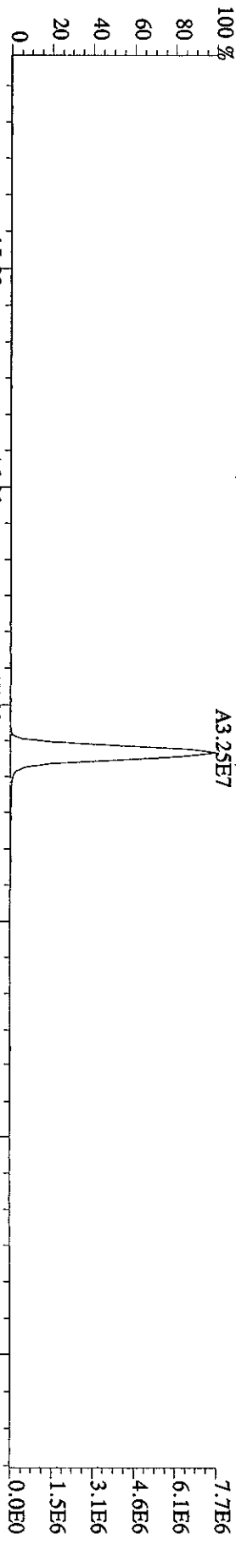


File: 27SE101D5 #1-382 Acq: 28-SEP-2010 04:48:30 GC EI+ Voltage SIR 70SE

Sample# 28 Text: L7EX6-1-AC : G0I23000-392C Exp: DIOXINRES

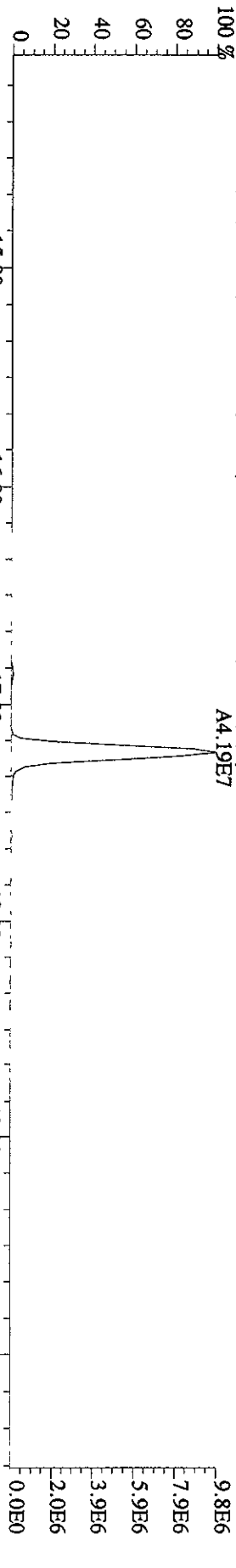
303.9016 S: 28 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2612.0,1.00%,F,T)

100% A3.25E7



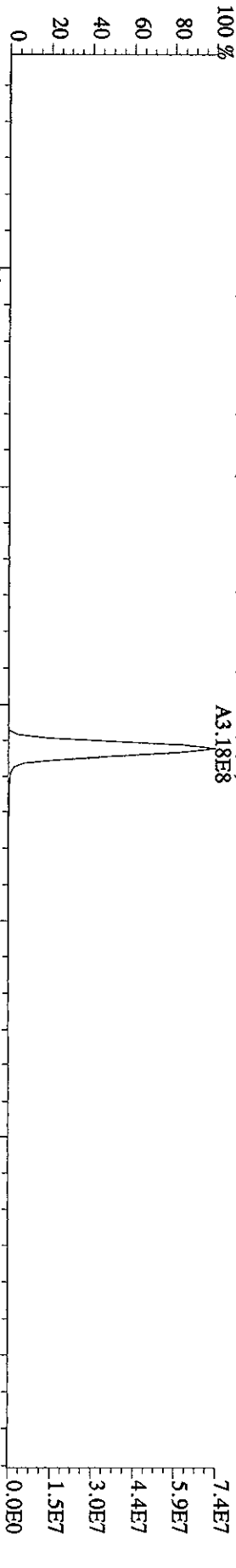
305.8987 S: 28 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4308.0,1.00%,F,T)

100% A4.19E7



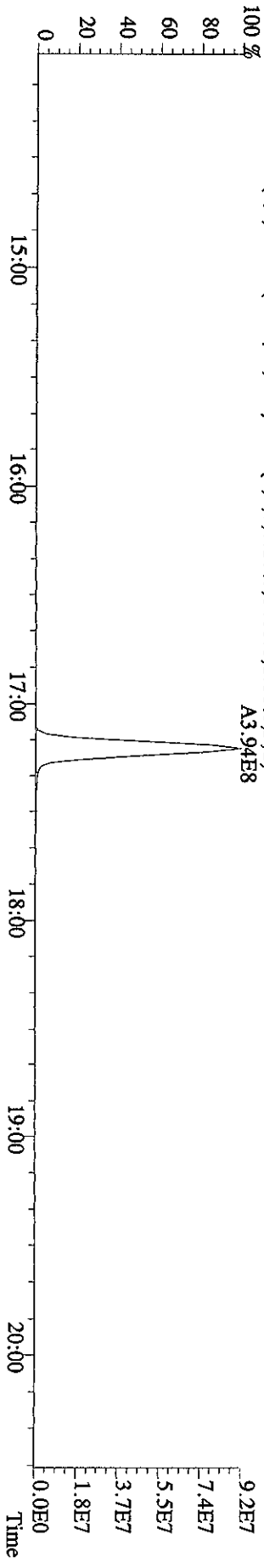
315.9419 S: 28 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14300.0,1.00%,F,T)

100% A3.18E8

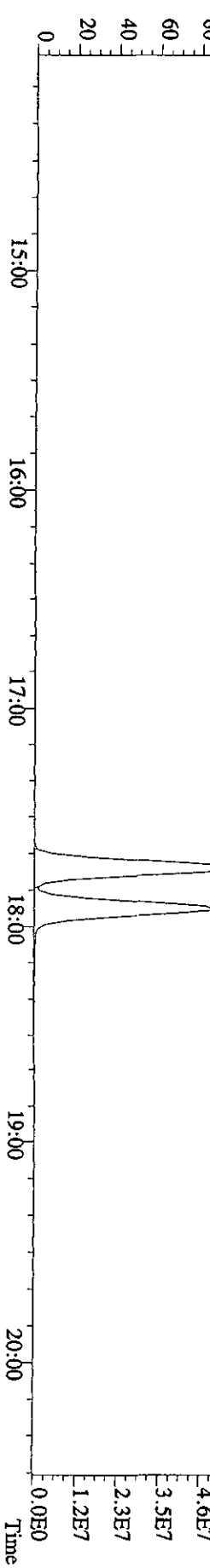
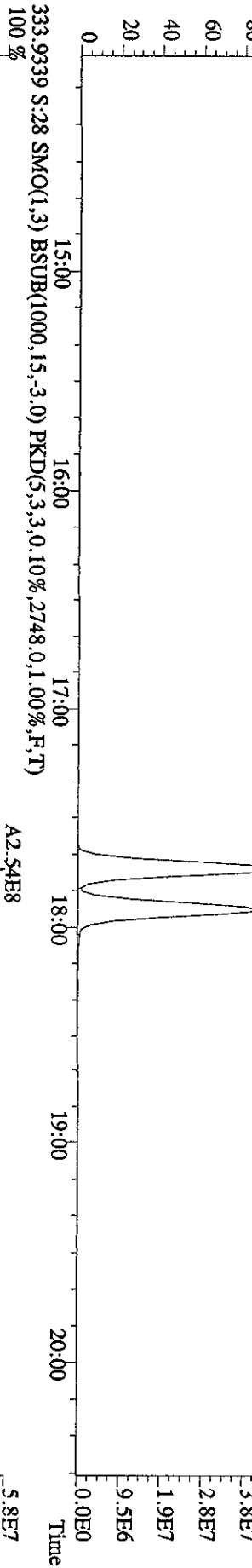
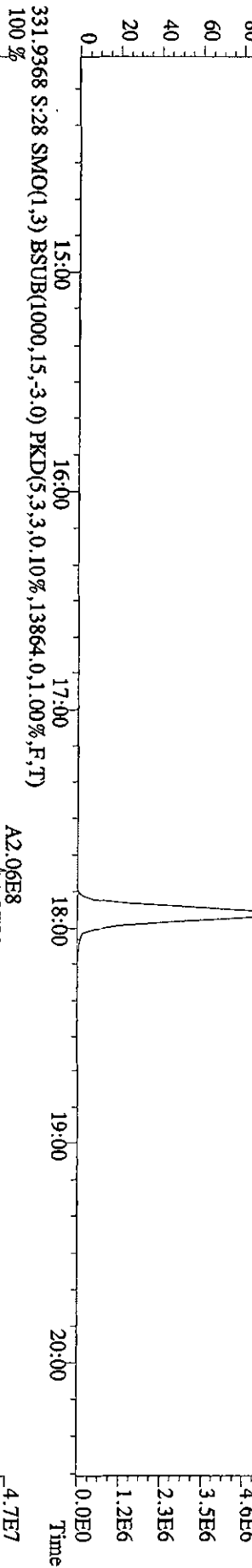
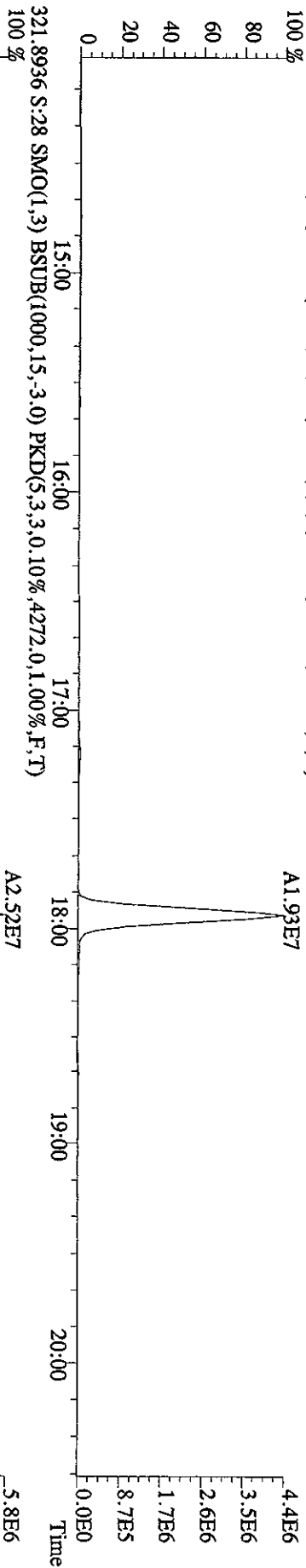


317.9389 S: 28 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8460.0,1.00%,F,T)

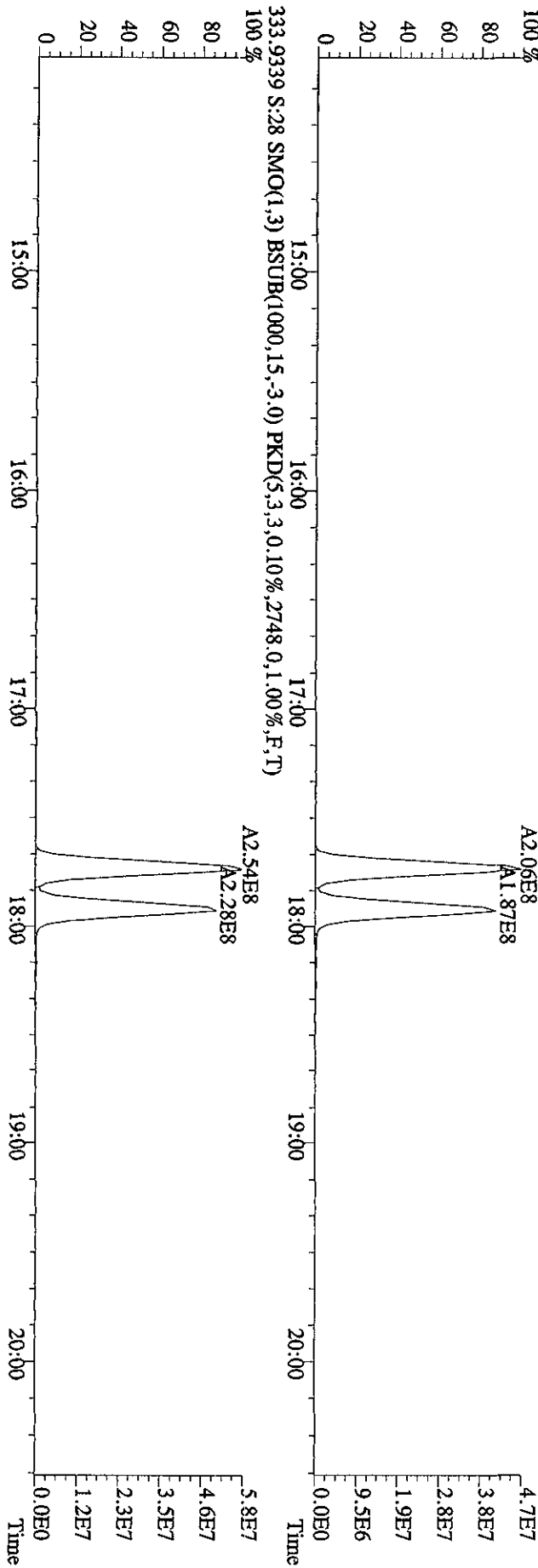
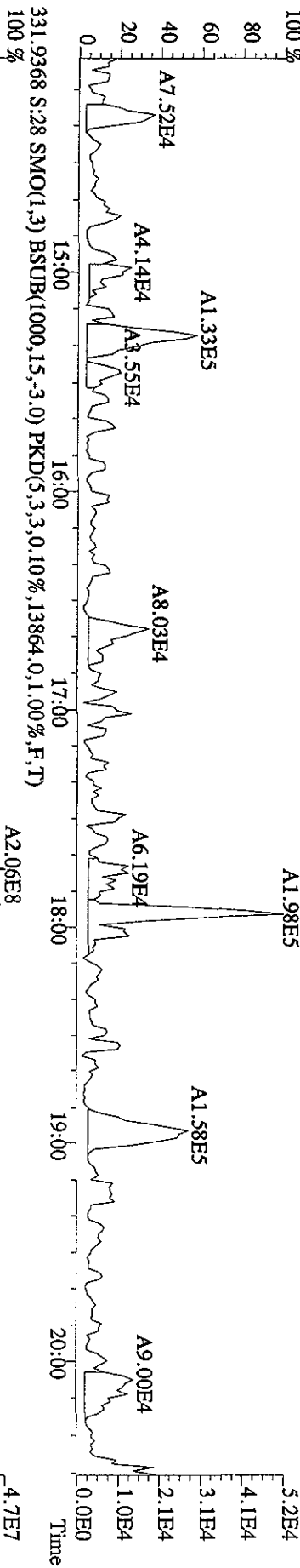
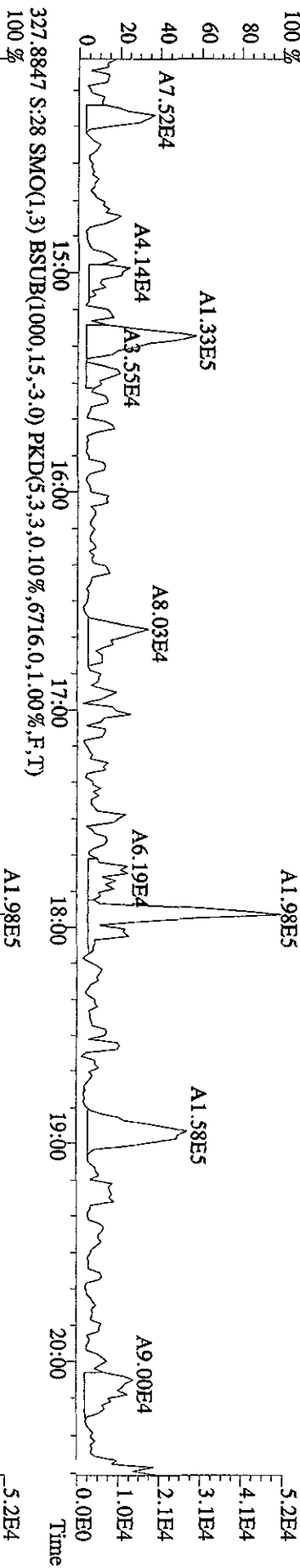
100% A3.94E8

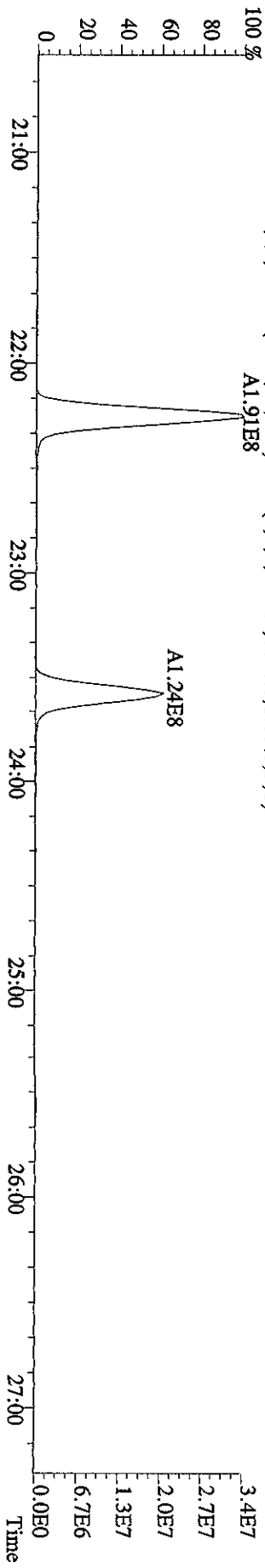
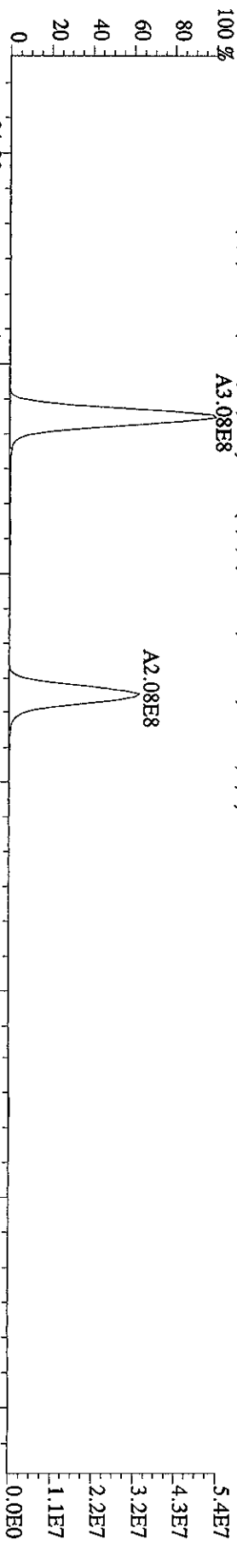
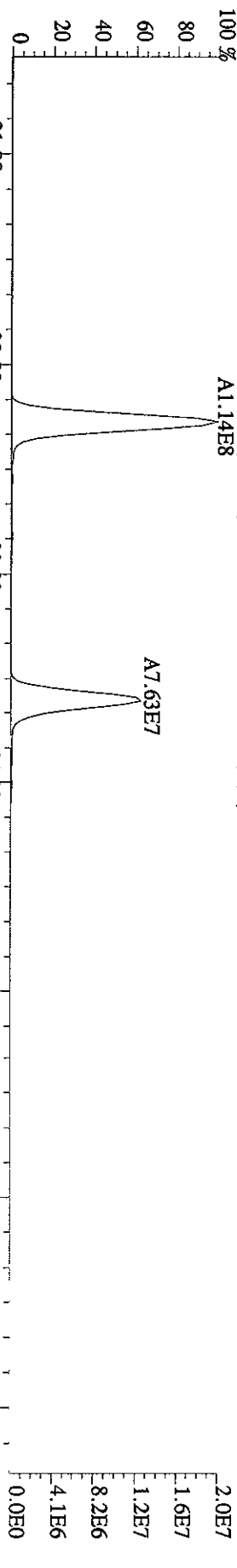
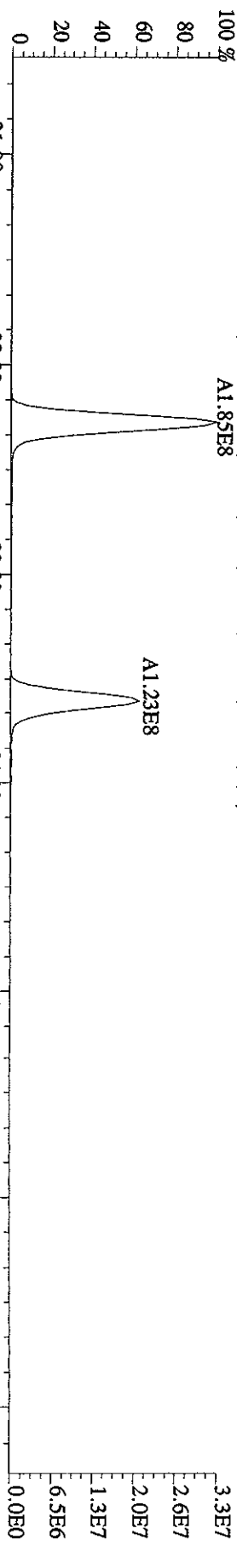


File: 27SE101D5 #1-382 Acq: 28-SEP-2010 04:48:30 GC EI+ Voltage SIR 70SE  
 Sample# 28 Text: L7EX6-1-AC : G01230000-392C Exp: DIOXINRES  
 319.8965 S: 28 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3452.0,1.00%,F,T)  
 100%

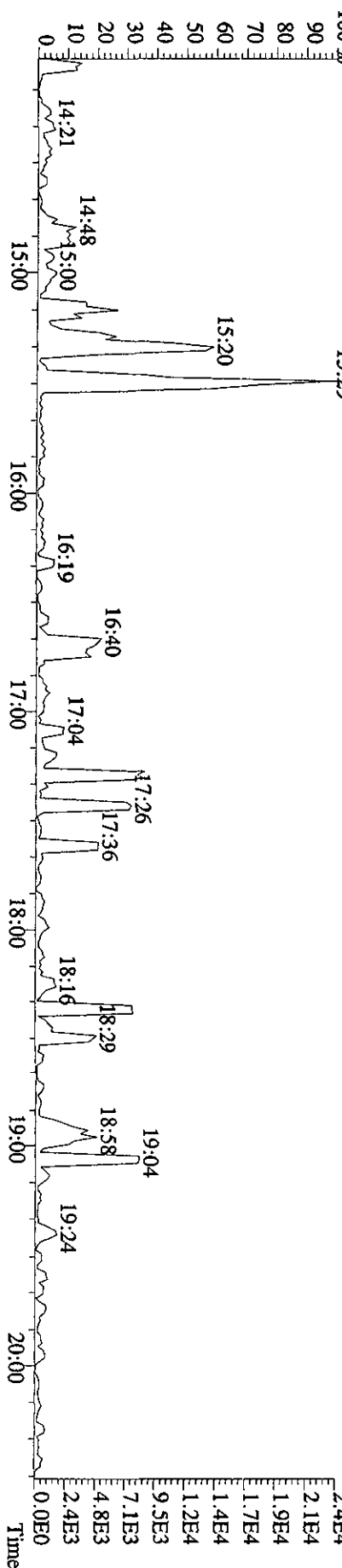
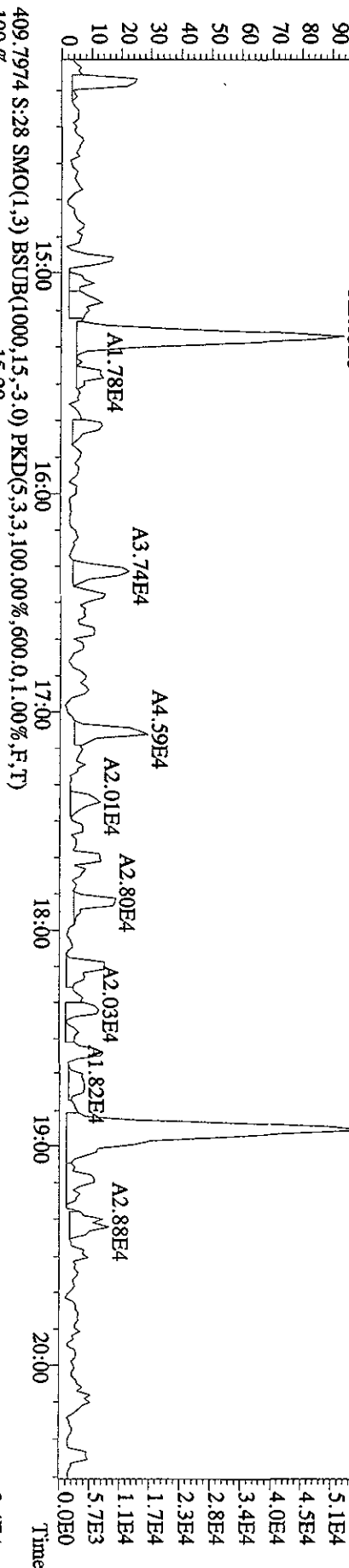
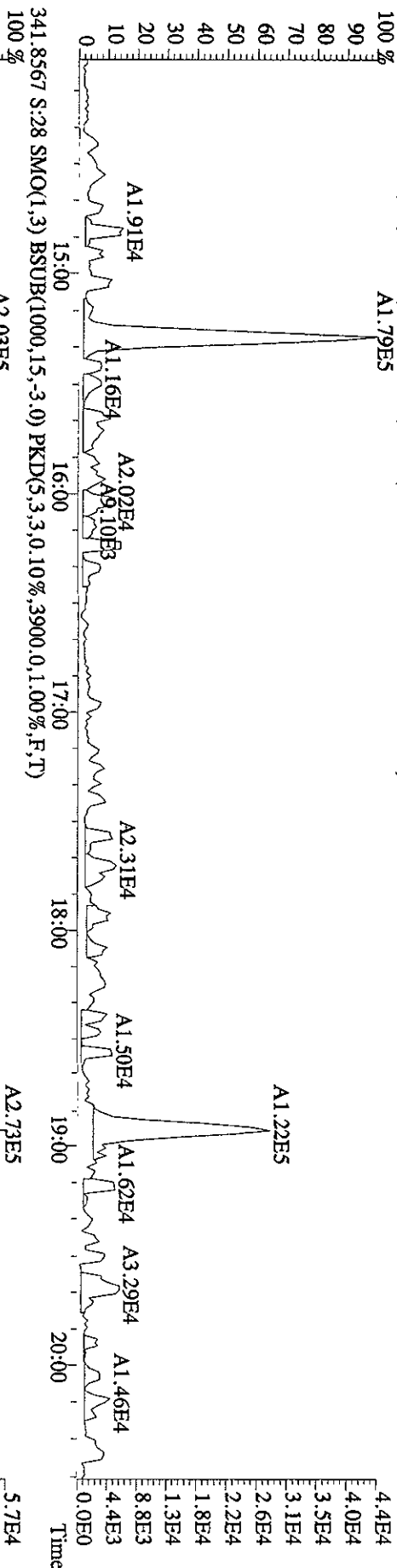


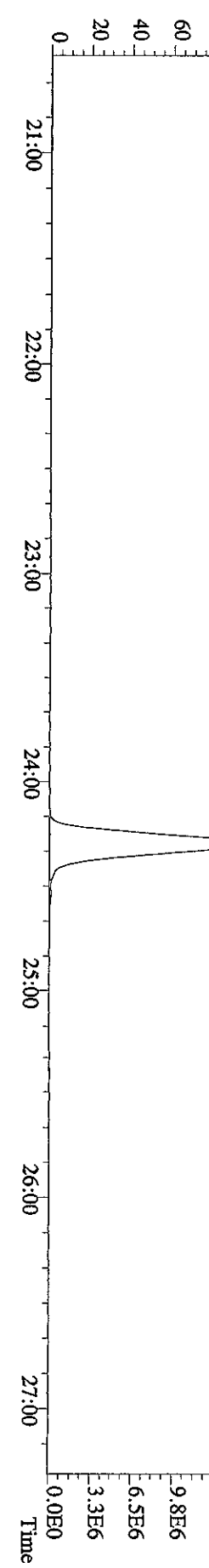
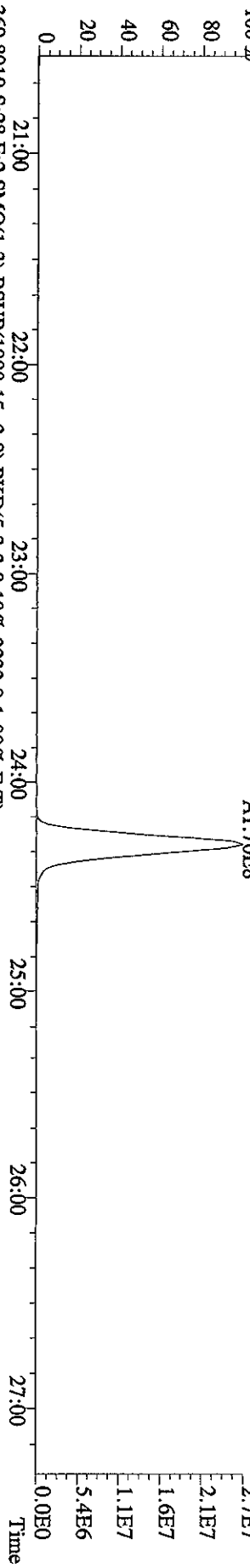
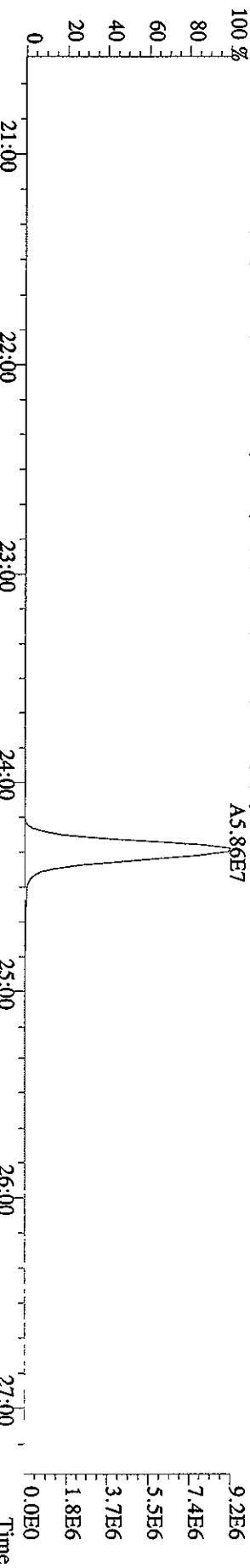
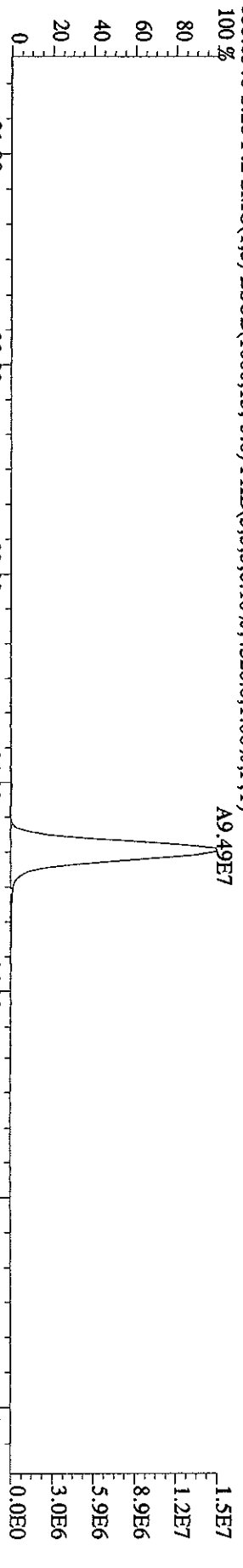
File:27SE101ID5 #1-382 Acq:28-SEP-2010 04:48:30 GC EI+ Voltage SIR 70SE  
 Sample#28 Text:L7EX6-1-AC :G01230000-392C Exp:DIOXINRES  
 327.8847 S:28 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6716.0,1.00%,F,T)  
 100 %



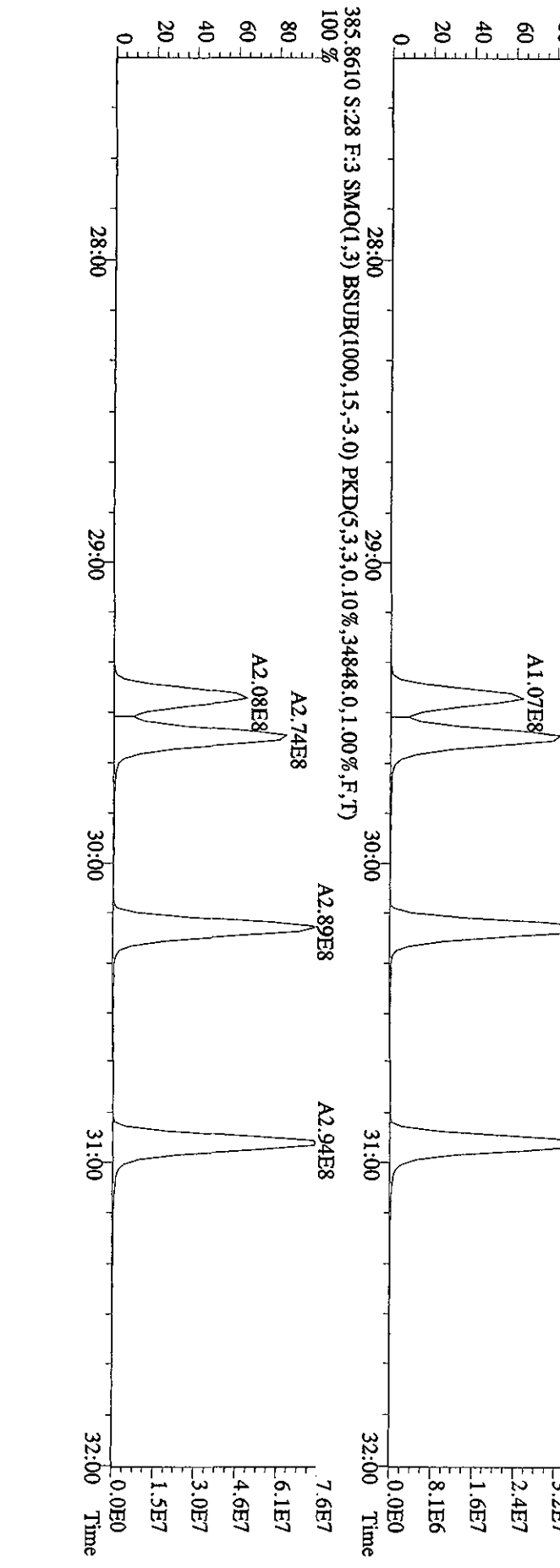
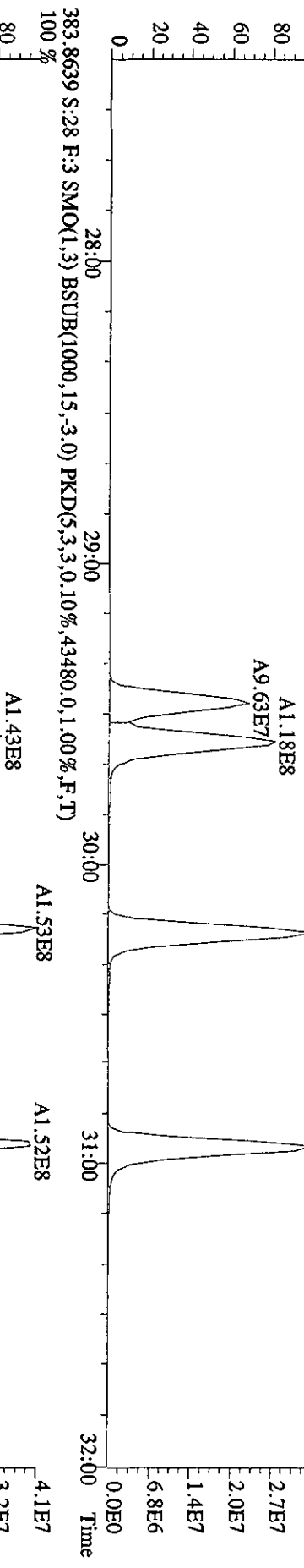
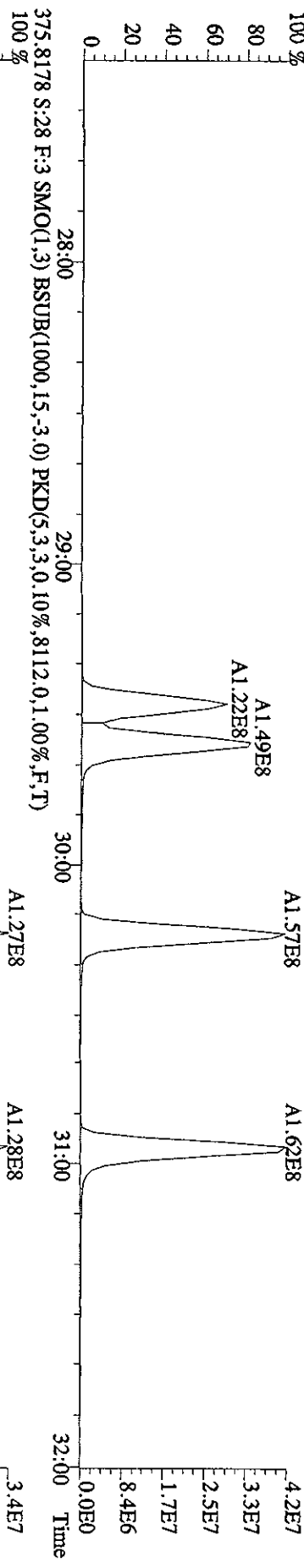


File: 27SEI01D5 #1-382 Acq: 28-SEP-2010 04:48:30 GC EI + Voltage SIR 70SE  
 Sample# 28 Text: L7EX6-1-AC : G01230000-392C Exp: DIOXINRES  
 339.8597 S: 28 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1824,0,1.00%,F,T)  
 100% A1.79E5





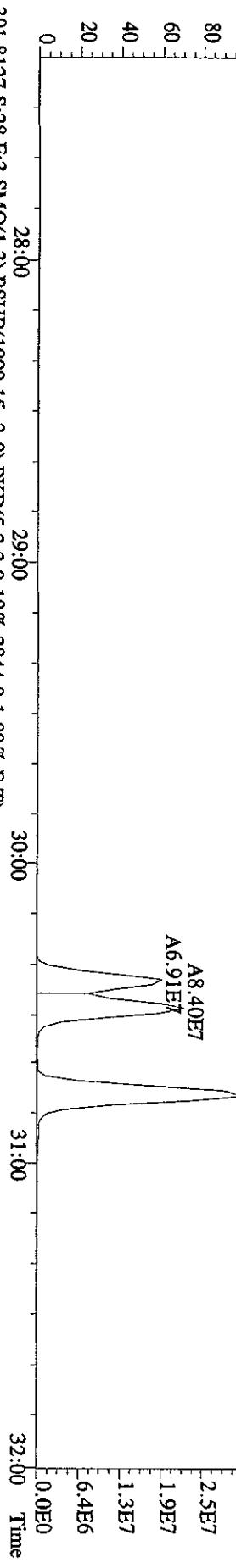
File:27SE101D5 #1-301 Acq:28-SEP-2010 04:48:30 GC EI+ Voltage SIR 70SE  
 Sample#28 Text:LEX6-1-AC :G01230000-392C Exp:DIOXINRES  
 373.8208 S:28 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5596.0,1.00%,F,T)  
 100%



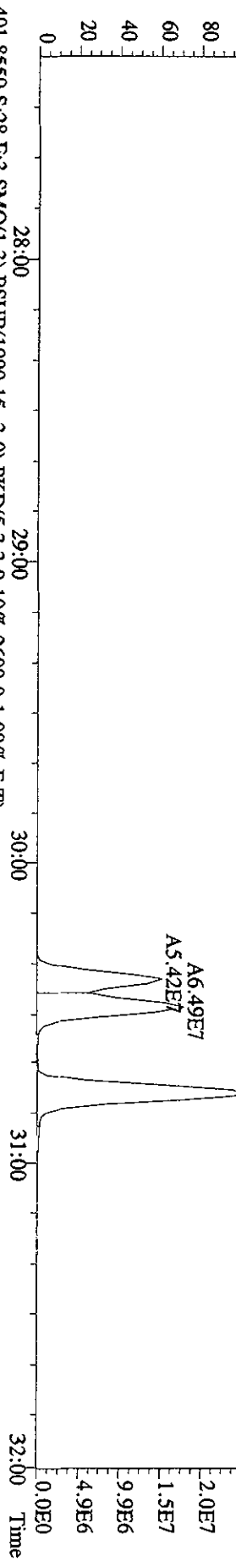
File:27SEI01D5 #1-301 Acq:28-SEP-2010 04:48:30 GC EI + Voltage SIR 70SE

Sample#28 Text:LTEX6-1-AC :G0I230000-392C Exp:DIOXINRES

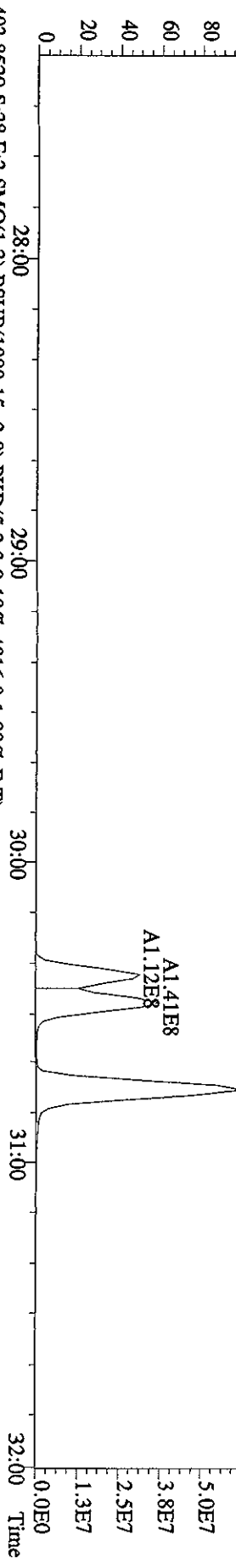
389.8157 S:28 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6852.0,1.00%,F,T)



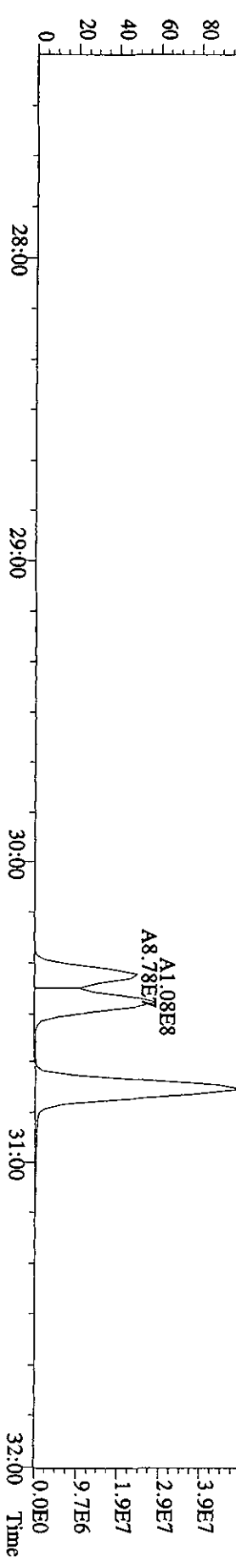
391.8127 S:28 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2844.0,1.00%,F,T)



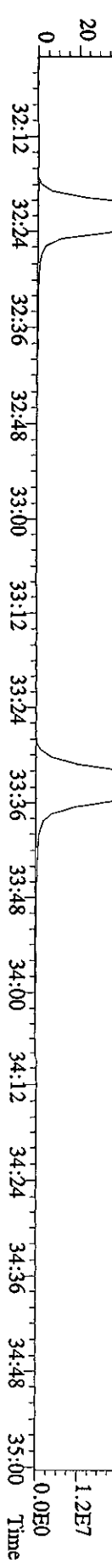
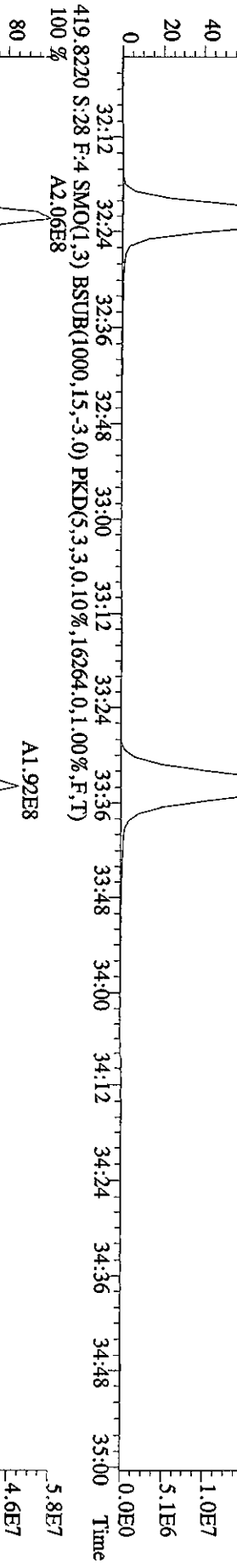
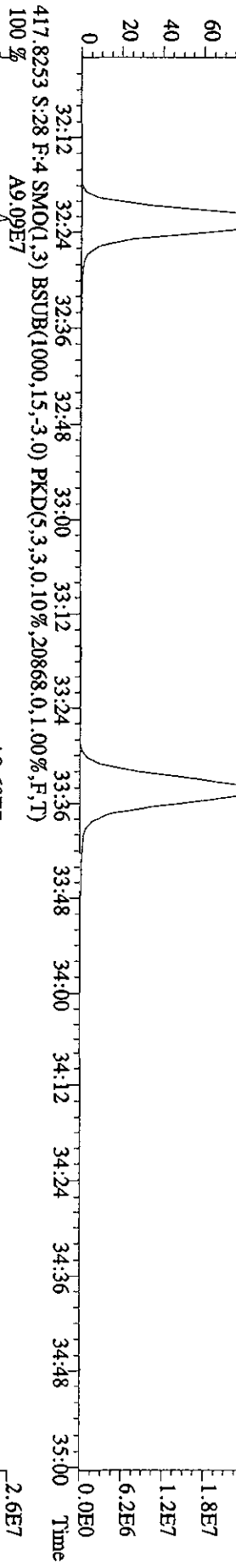
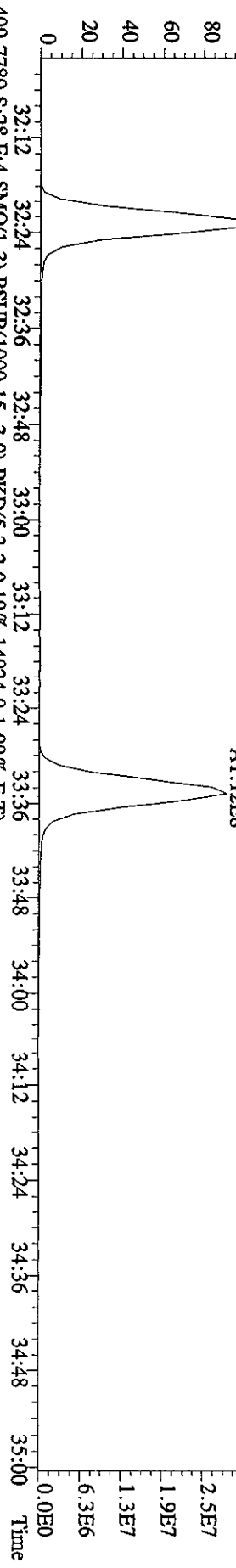
401.8559 S:28 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2600.0,1.00%,F,T)



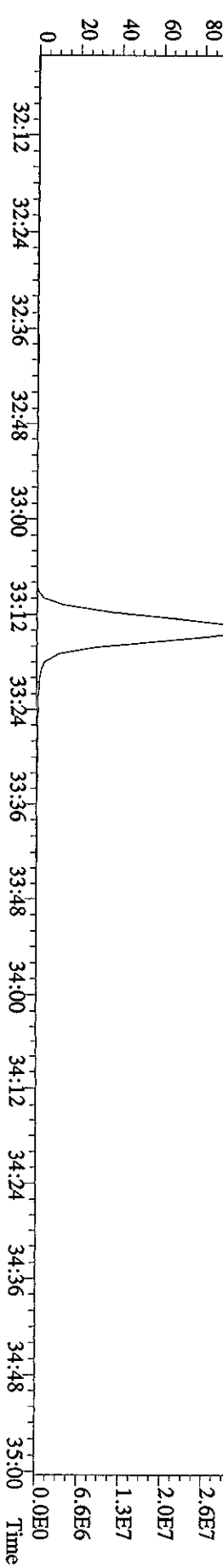
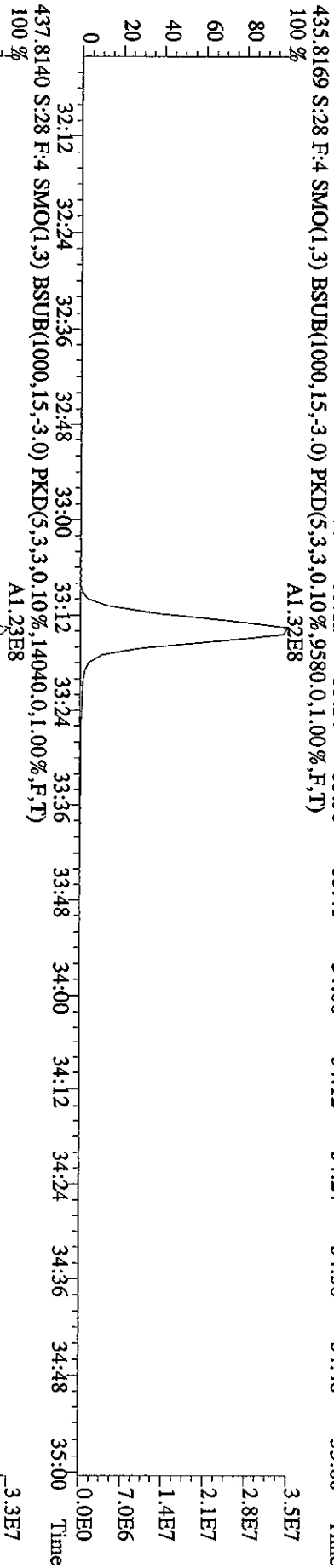
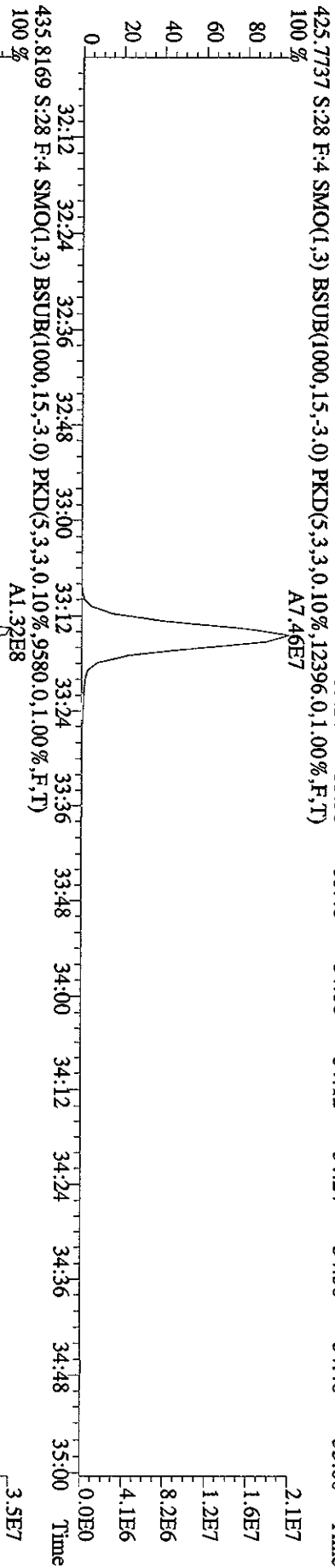
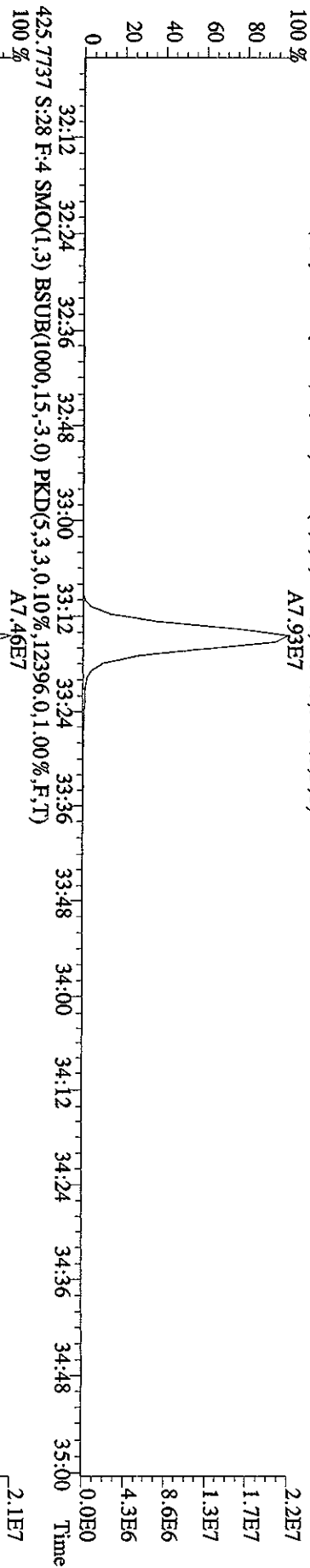
403.8529 S:28 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4816.0,1.00%,F,T)



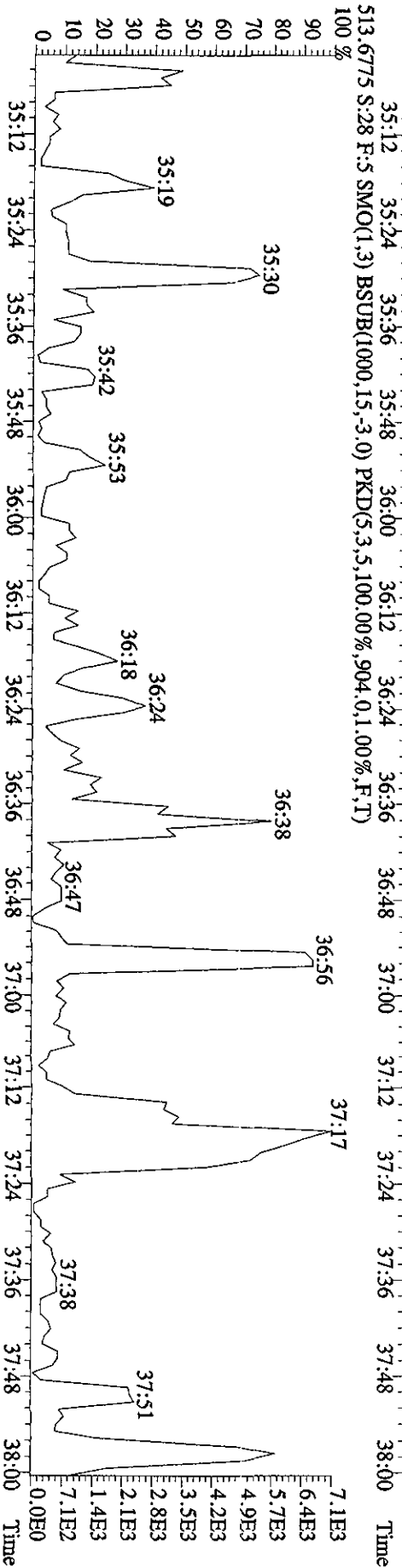
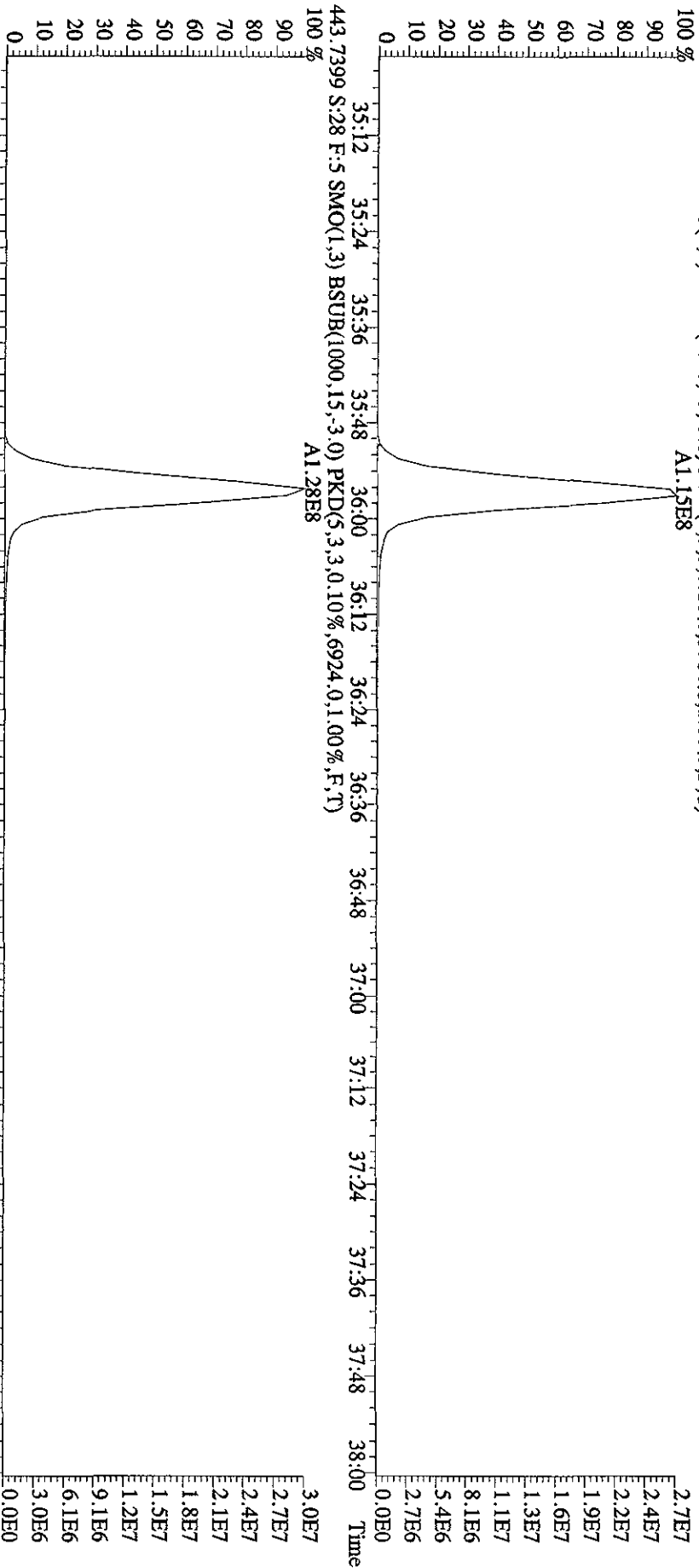




423.7766 S:28 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7484,0,1.00%,F,T)  
100% A7.93E7

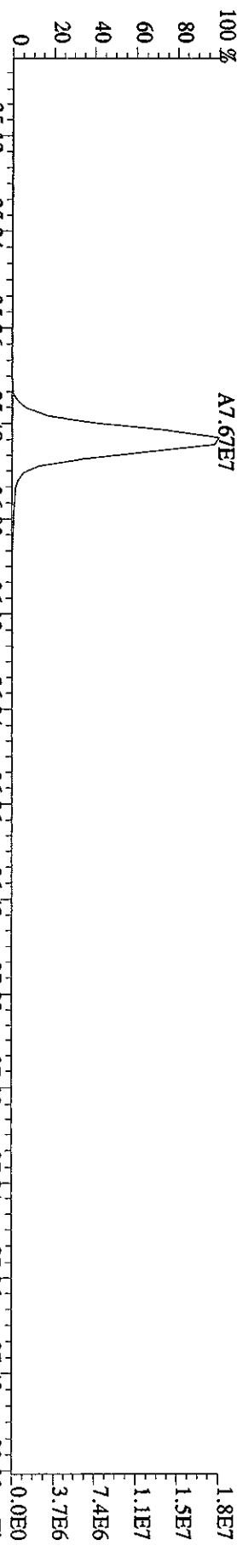


File: 27/SEI010D5 #1-196 Acq: 28-SEP-2010 04:48:30 GC EI+ Voltage SIR 70SE  
 Sample# 28 Text: L7EX6-1-AC : G0I230000-392C Exp: DIOXINRES  
 441.7428 S: 28 F: 5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5784.0,1.00%,F,T)  
 100% A1.15E8



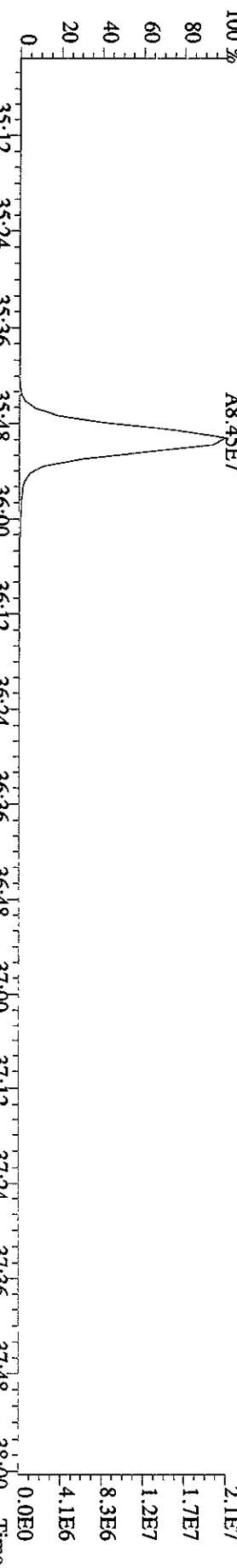
457.7377 S:28 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4152.0,1.00%,F,T)

100 % A7.67E7



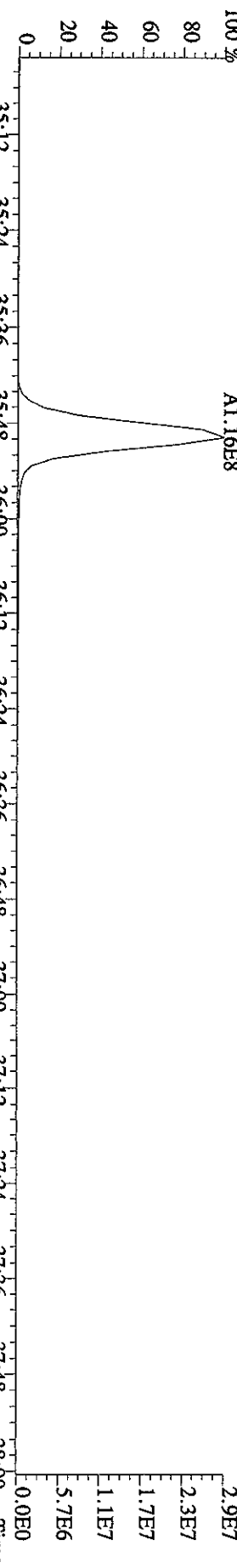
459.7348 S:28 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5204.0,1.00%,F,T)

100 % A8.45E7



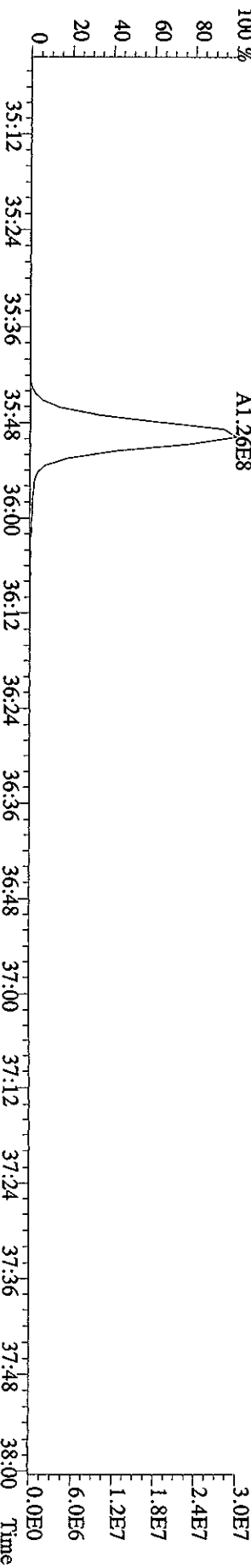
469.7779 S:28 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3832.0,1.00%,F,T)

100 % A1.16E8



471.7750 S:28 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3400.0,1.00%,F,T)

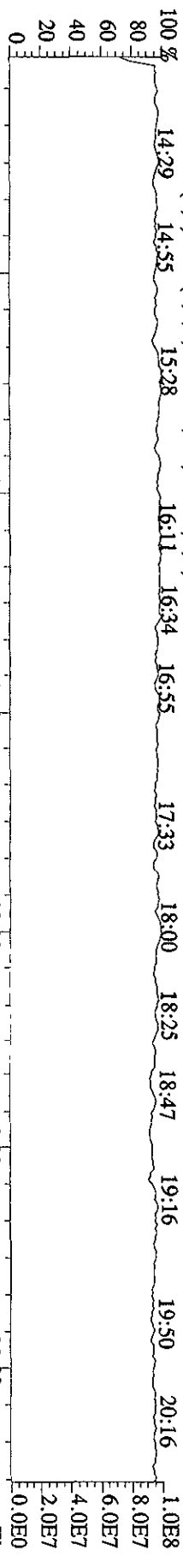
100 % A1.26E8



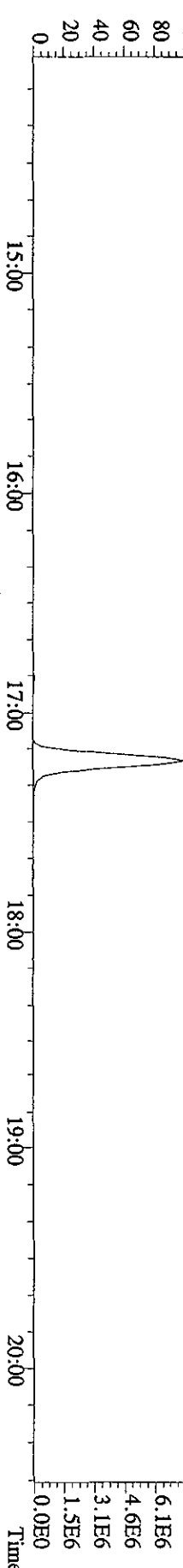
File: 27SE101D5 #1-382 Acq: 28-SEP-2010 04:48:30 GC EI+ Voltage SIR 70SE

Sample# 28 Text: L7EX6-1-AC : G01230000-392C Exp: DIOXINRES

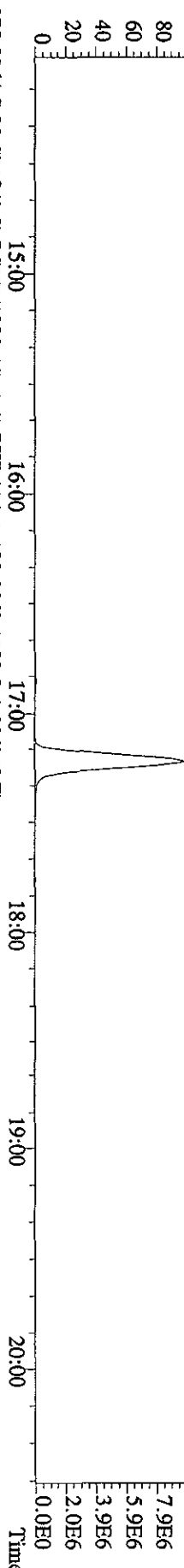
292.9825 S: 28 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



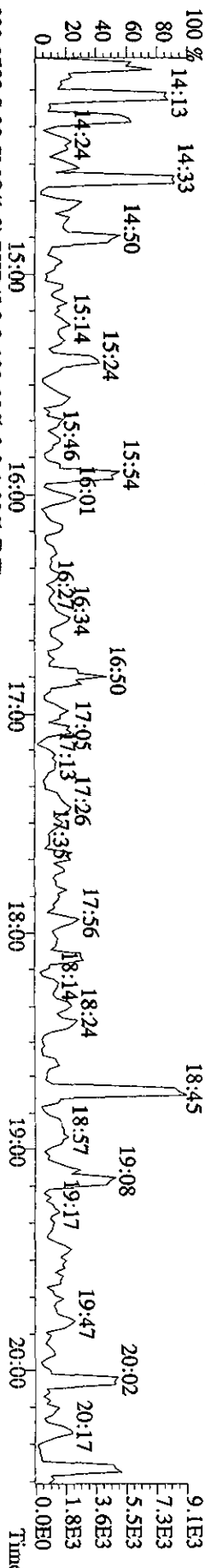
303.9016 S: 28 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2612.0,1.00%,F,T)



305.8987 S: 28 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4308.0,1.00%,F,T)

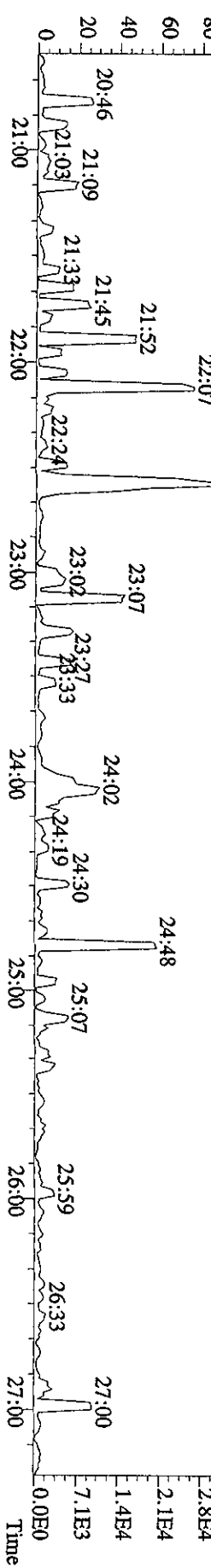
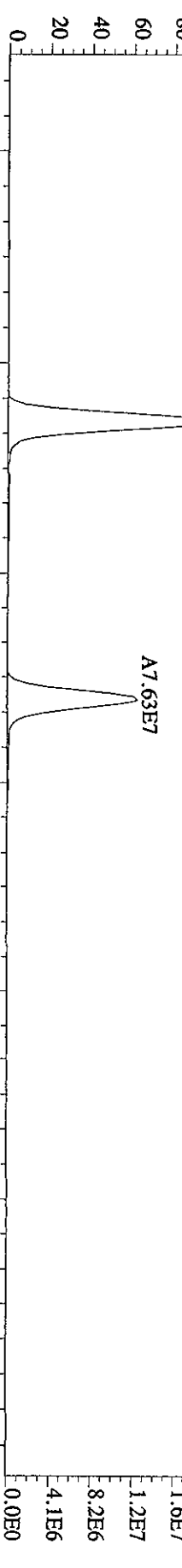
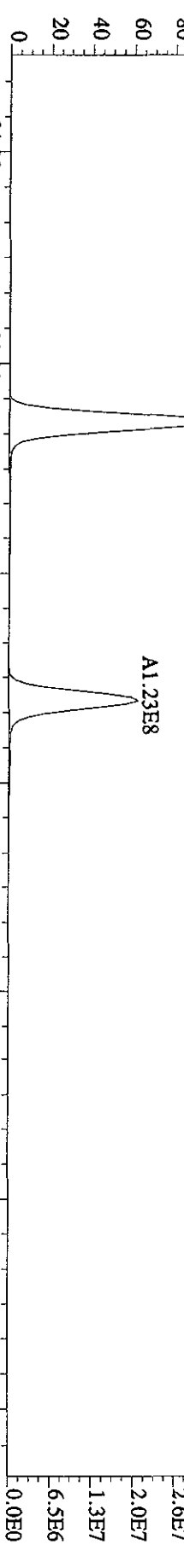
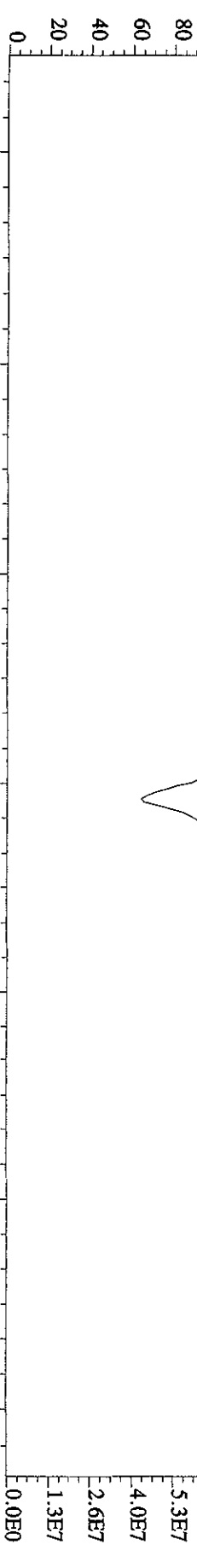


375.8364 S: 28 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1532.0,1.00%,F,T)

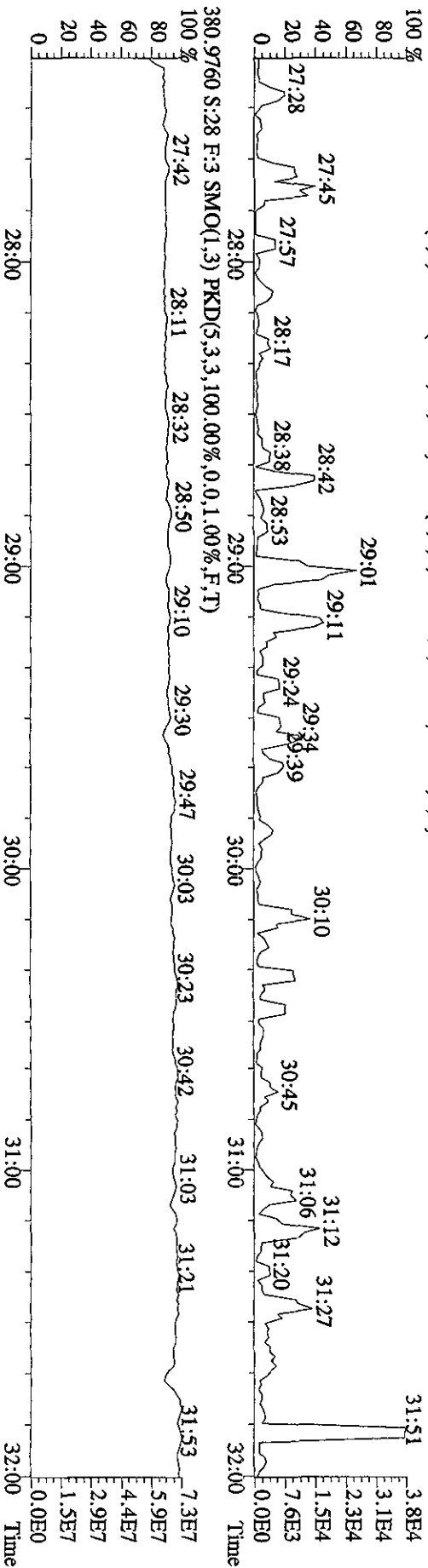
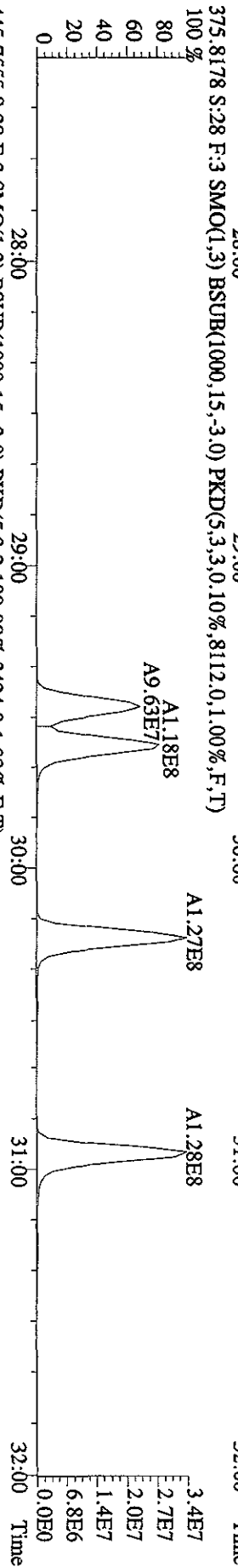
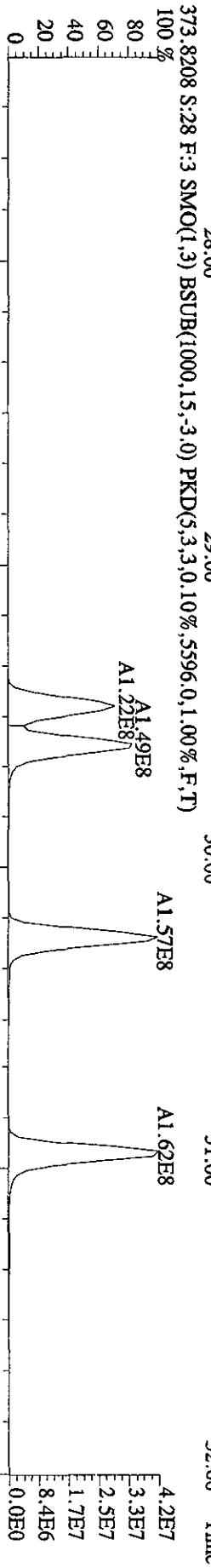
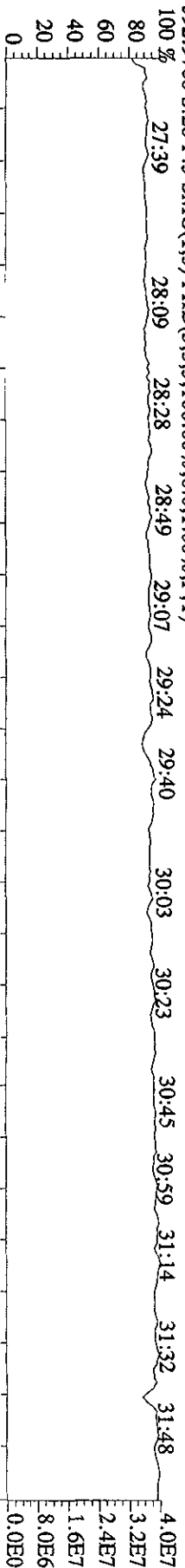


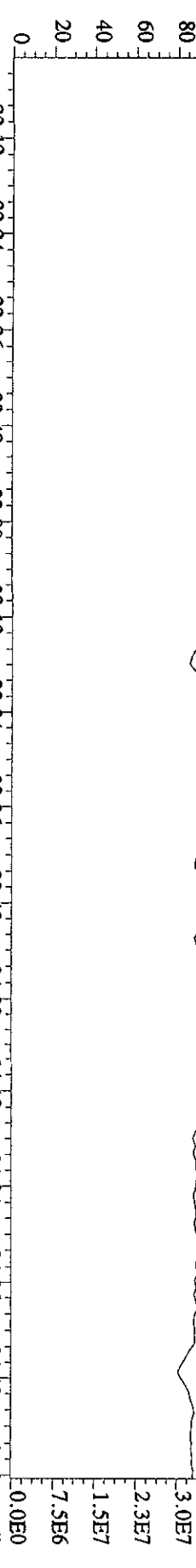
330.9792 S: 28 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



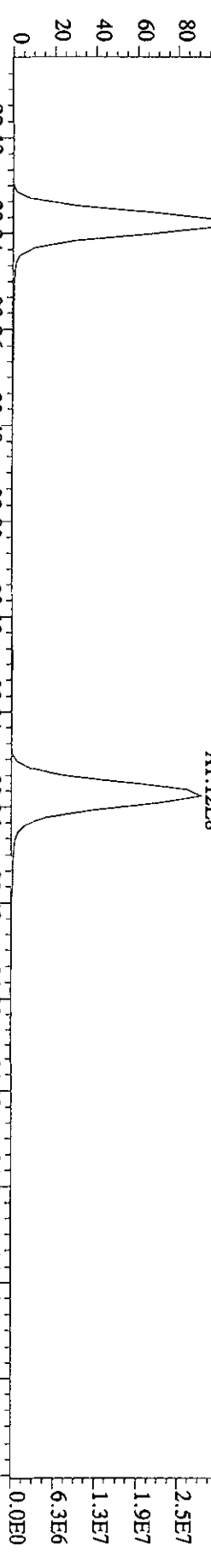


File:27SE101D5 #1-301 Acq:28-SEP-2010 04:48:30 GC EI+ Voltage SIR 70SE  
 Sample#28 Text:L7EX6-1-AC :G01230000-392C Exp:DIOXINRES

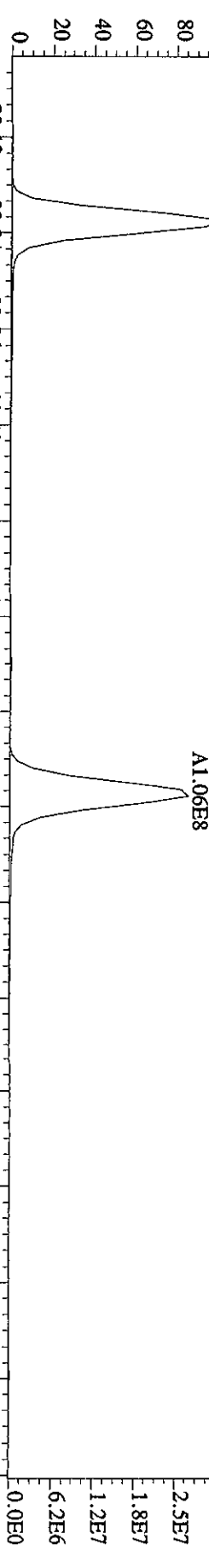




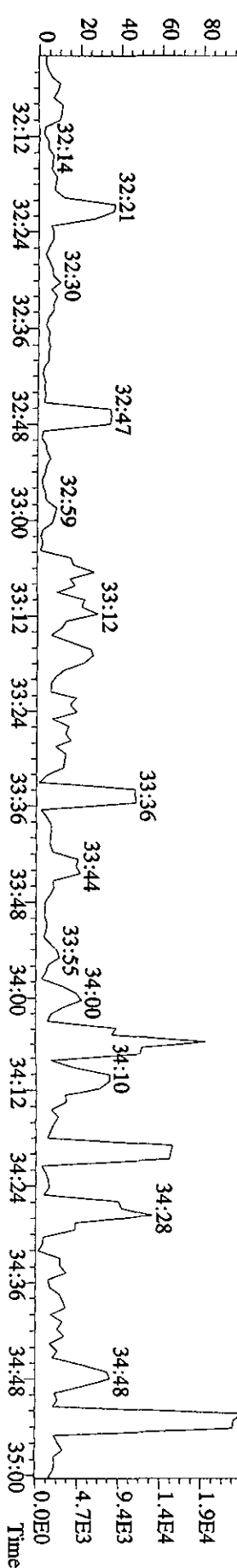
407.7818 S:28 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16844.0,1.00%,F,T)



409.7789 S:28 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14024.0,1.00%,F,T)

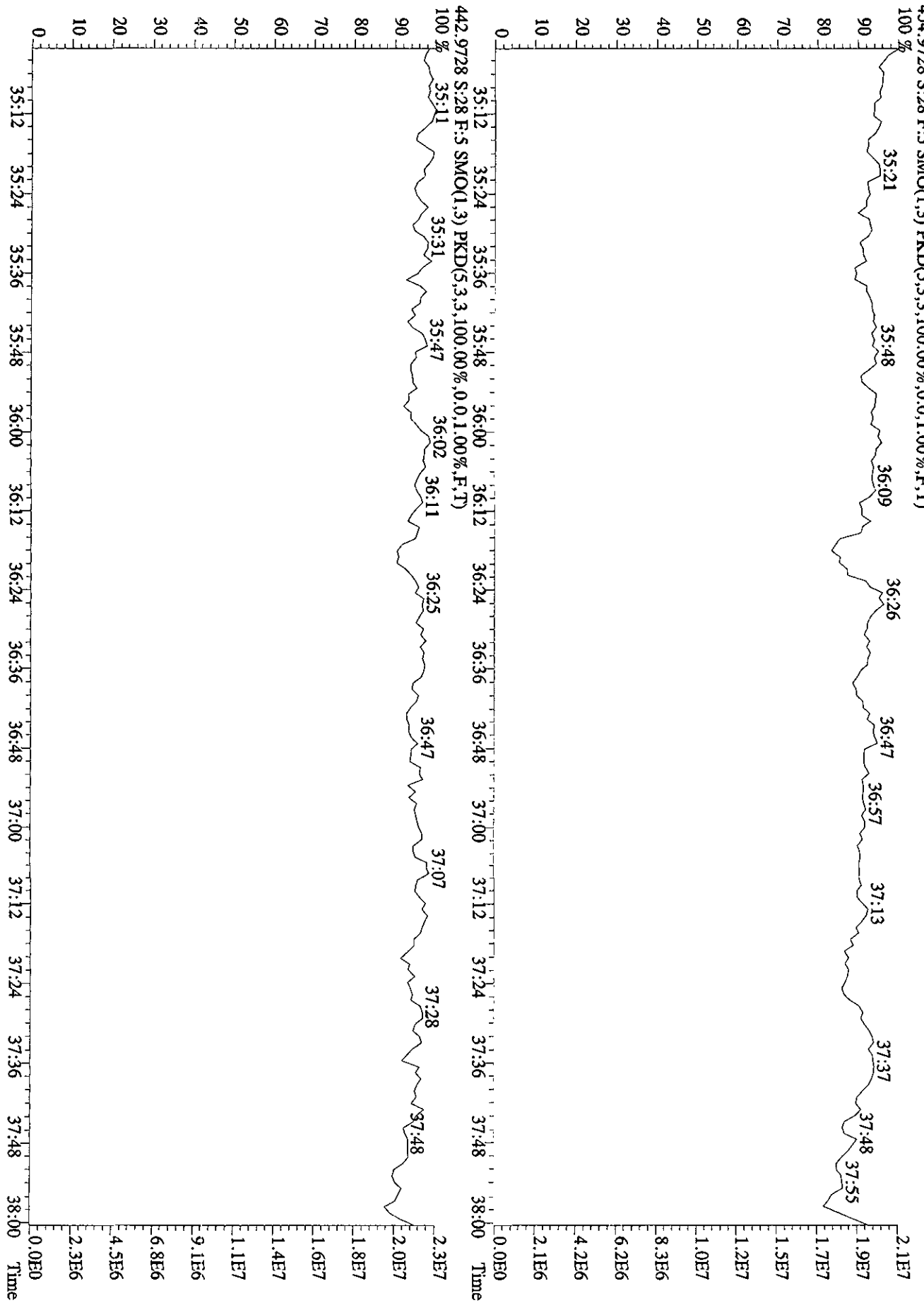


479.7165 S:28 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2368.0,1.00%,F,T)





File: 27SEI01D5 #1-196 Acq: 28-SEP-2010 04:48:30 GC EI + Voltage SFR 70SE  
 Sample# 28 Text: L7EX6-1-AC : G01230000-392C Exp: DIOXINRES  
 454.9728 S: 28 F: 5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

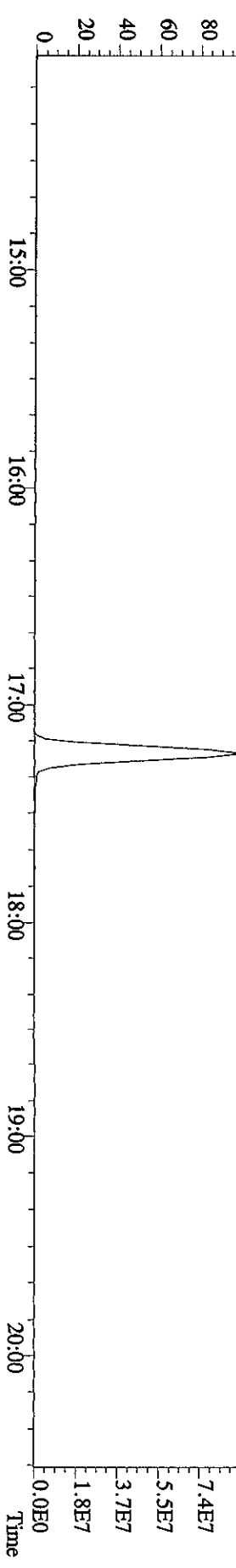
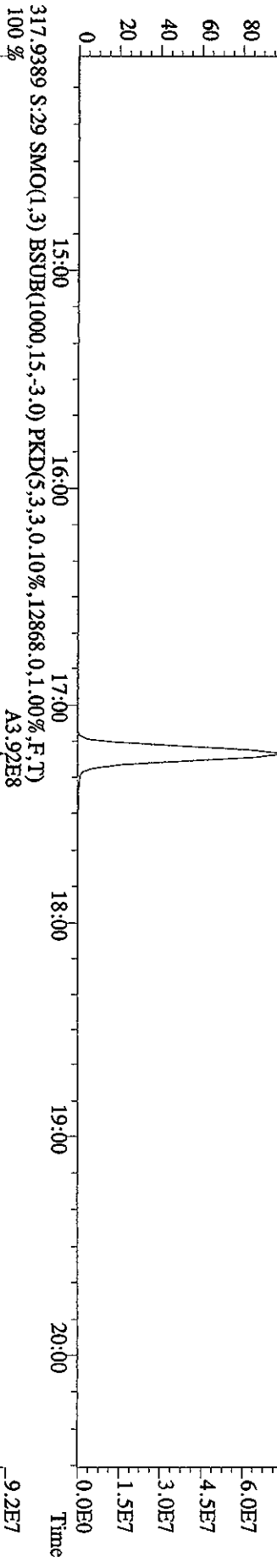
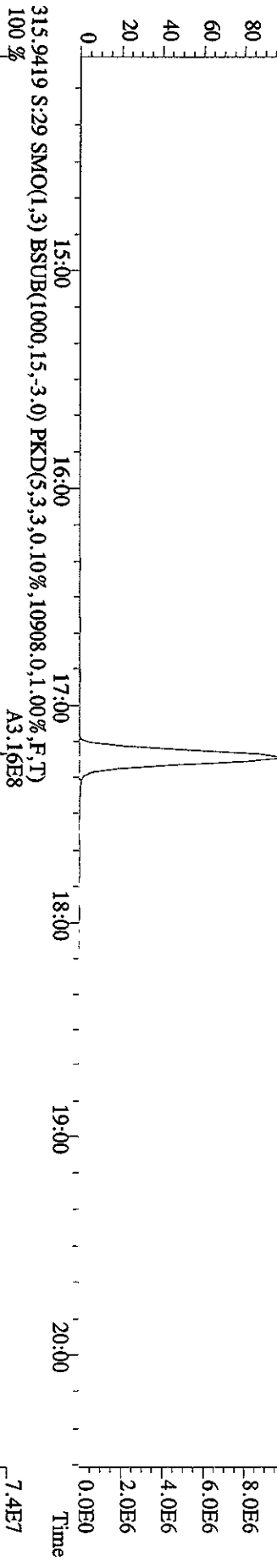
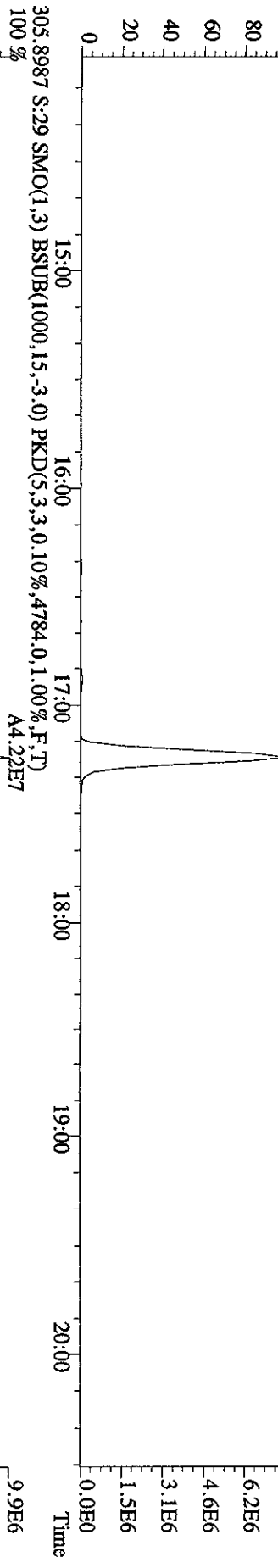


Run text: L7EX6-1-AD Sample text: L7EX6-1-AD :G0I230000-392L  
 Run #18 Filename: 27SE101D5 S: 29 I: 1 Results: 27SE101D5T09  
 Acquired: 28-SEP-10 05:31:26 Processed: 28-SEP-10 09:23:03  
 Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5  
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000Sample

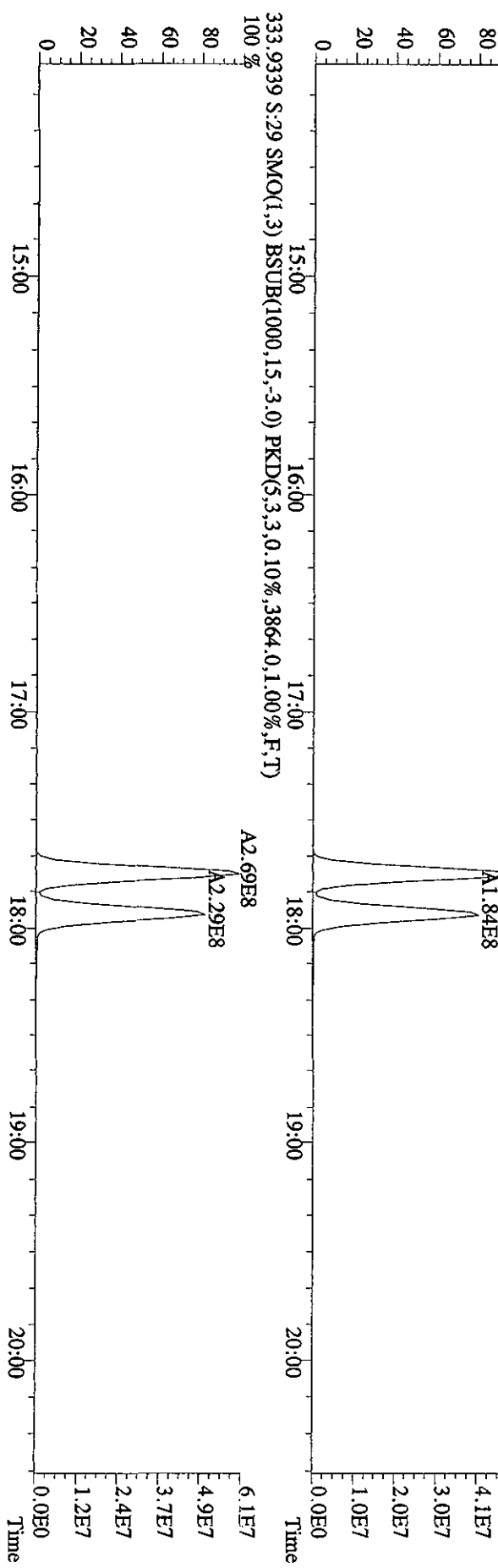
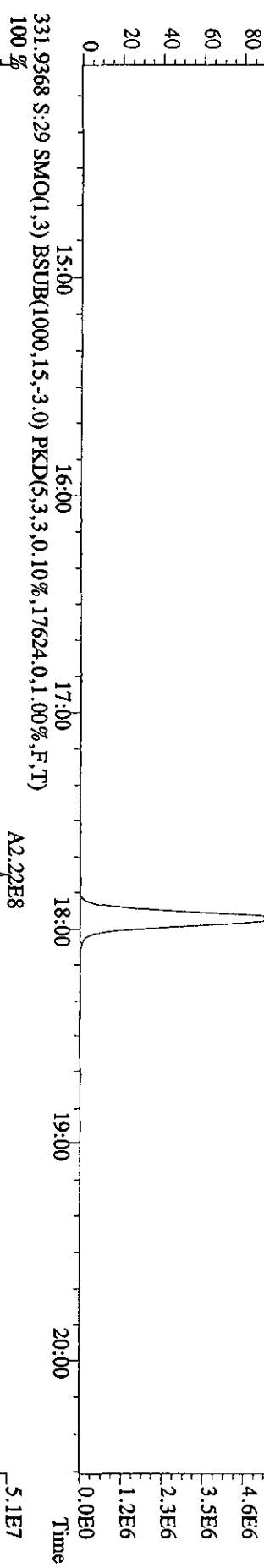
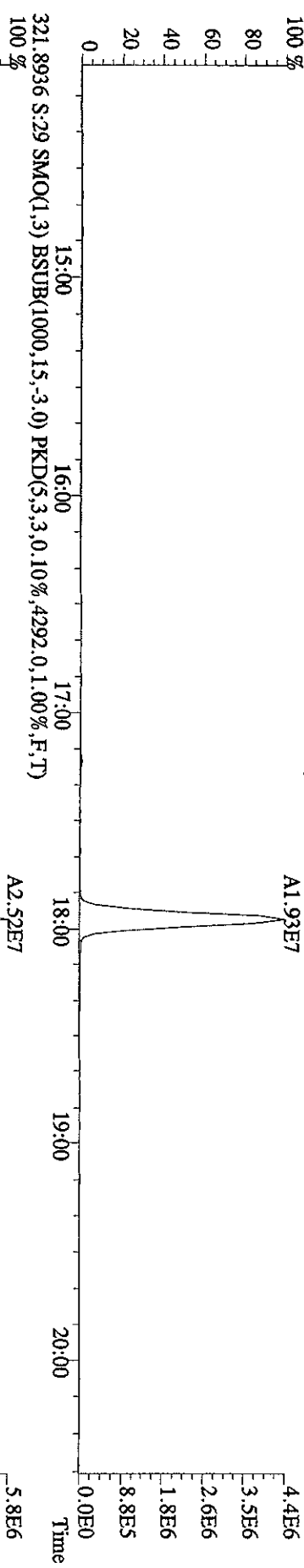
*05*  
*09-29-10*

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	490685000	0.83 y	17:45	-	280.85	-	-	n
13C-2,3,7,8-TCDF	708619000	0.81 y	17:13	1.56	3695.66	1.63	92.4	n
2,3,7,8-TCDF	74502400	0.76 y	17:15	0.98	427.49 /	0.55	-	n
Total TCDF	75043521	0.93 n	16:20	0.98	430.60	0.55	-	n
13C-2,3,7,8-TCDD	413093000	0.81 y	17:56	0.92	3656.77	2.50	91.4	n
2,3,7,8-TCDD	44516900	0.77 y	17:57	1.03	417.83 /	0.87	-	n
Total TCDD	44697024	0.35 n	15:18	1.03	419.53	0.87	-	n
37Cl-2,3,7,8-TCDD	1100050	1.00 y	17:57	1.23	8.69	0.74	0.5	n
13C-1,2,3,7,8-PeCDF	497821000	1.64 y	22:16	1.05	3855.53	1.86	96.4	n
1,2,3,7,8-PeCDF	303773000	1.63 y	22:18	1.09	2234.85 /	1.30	-	n
2,3,4,7,8-PeCDF	208700000	1.58 y	23:37	1.02	1647.80 /	1.40	-	n
Total F2 PeCDF	515984407	2.12 n	20:56	1.05	3909.40	1.35	-	n
Total F1 PeCDF	796309	0.27 n	14:38	1.05	6.07	0.66	-	n
13C-1,2,3,7,8-PeCDD	278743000	1.64 y	24:18	0.56	4051.37	1.40	101.3	n
1,2,3,7,8-PeCDD	155961400	1.68 y	24:20	1.07	2090.99 /	1.49	-	n
Total PeCDD	156457204	2.94 n	24:01	1.07	2097.63	1.49	-	n
13C-1,2,3,7,8,9-HxCDD	424715000	1.28 y	30:45	-	258.80	-	-	n
13C-1,2,3,4,7,8-HxCDF	306892000	0.53 y	29:27	0.99	2917.04	4.55	72.9	n
1,2,3,4,7,8-HxCDF	217581700	1.26 y	29:28	1.26	2249.05 /	1.87	-	n
1,2,3,6,7,8-HxCDF	256638000	1.26 y	29:35	1.53	2184.67 /	1.54	-	n
2,3,4,6,7,8-HxCDF	274894000	1.24 y	30:14	1.41	2545.92 /	1.68	-	n
1,2,3,7,8,9-HxCDF	281481000	1.27 y	30:57	1.40	2627.84 high	1.69	-	n
Total HxCDF	1030594700	1.26 y	29:28	1.40	9607.47	1.69	-	n
13C-1,2,3,6,7,8-HxCDD	246500000	1.29 y	30:28	0.74	3139.41	0.46	78.5	n
1,2,3,4,7,8-HxCDD	129794900	1.29 y	30:23	1.12	1880.88 /	1.13	-	n
1,2,3,6,7,8-HxCDD	151314000	1.30 y	30:29	1.14	2151.58 /	1.11	-	n
1,2,3,7,8,9-HxCDD	210811700	1.26 y	30:46	1.35	2526.83 /	0.93	-	n
Total HxCDD	491920600	1.29 y	30:23	1.20	6559.29	1.05	-	n
13C-1,2,3,4,6,7,8-HpCDF	278788100	0.45 y	32:21	0.96	2746.19	4.16	68.7	n
1,2,3,4,6,7,8-HpCDF	216544000	1.06 y	32:22	1.41	2206.39 /	2.84	-	n
1,2,3,4,7,8,9-HpCDF	203749200	1.05 y	33:34	1.24	2365.60 /	3.24	-	n
Total HpCDF	421293639	1.06 y	32:22	1.32	4582.84	3.03	-	n
13C-1,2,3,4,6,7,8-HpCDD	239953000	1.08 y	33:14	0.71	3173.13	4.06	79.3	n
1,2,3,4,6,7,8-HpCDD	146801500	1.07 y	33:14	1.13	2157.34 /	2.20	-	n
Total HpCDD	147665691	1.07 y	32:38	1.13	2170.04	2.20	-	n
13C-OCDD	221197000	0.92 y	35:49	0.35	5906.84	3.13	73.8	n
OCDF	223760000	0.91 y	35:56	2.12	3821.79 /	2.72	-	n
OCDD	149991900	0.91 y	35:50	1.37	3956.46 /	2.84	-	n

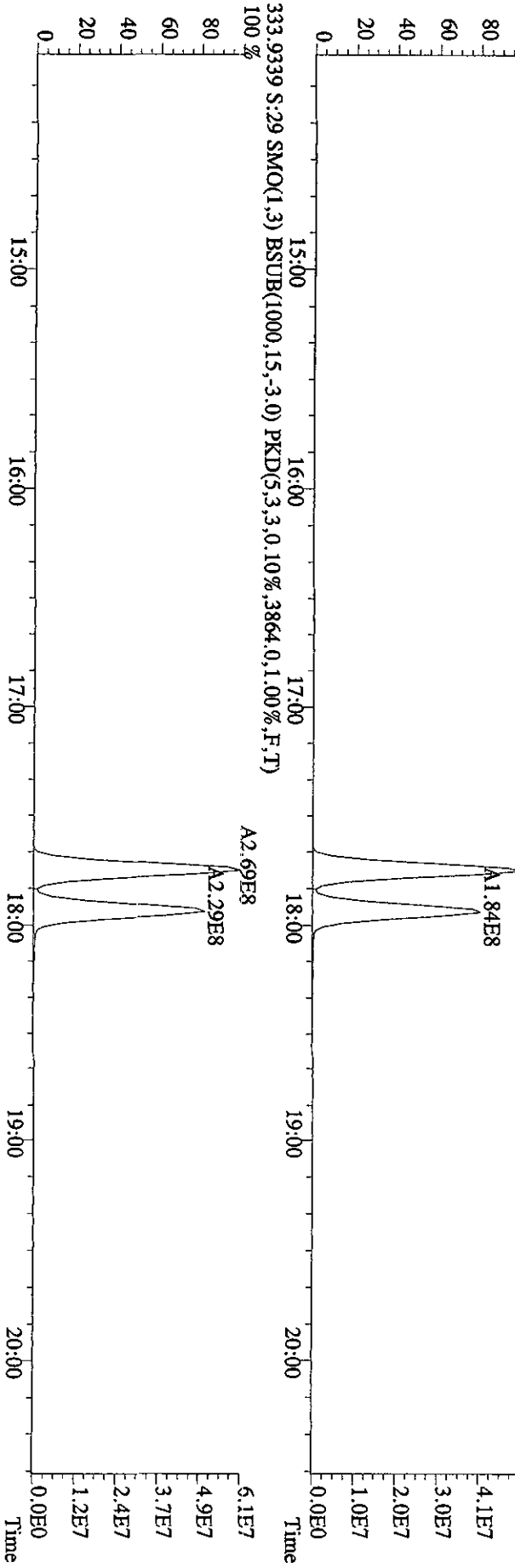
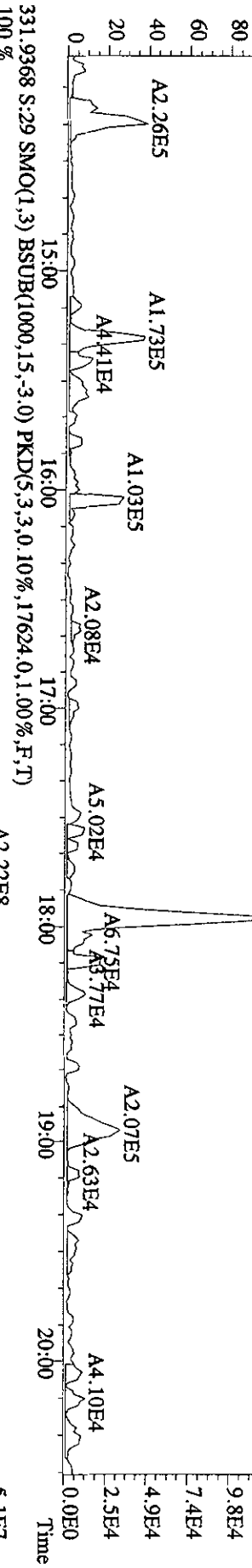
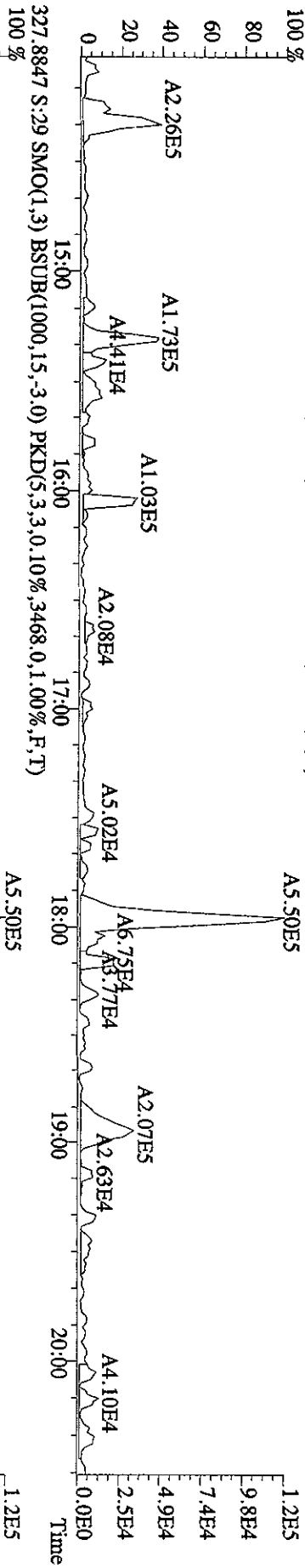
File:27SE101D5 #1-382 Acq:28-SEP-2010 05:31:26 GC EI+ Voltage SIR 70SE  
 Sample#29 Text:L7EX6-1-AD :G0I230000-392L Exp:DIOXINRES  
 303.9016 S:29 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2744.0,1.00%,F,T)  
 100% A3.23E7



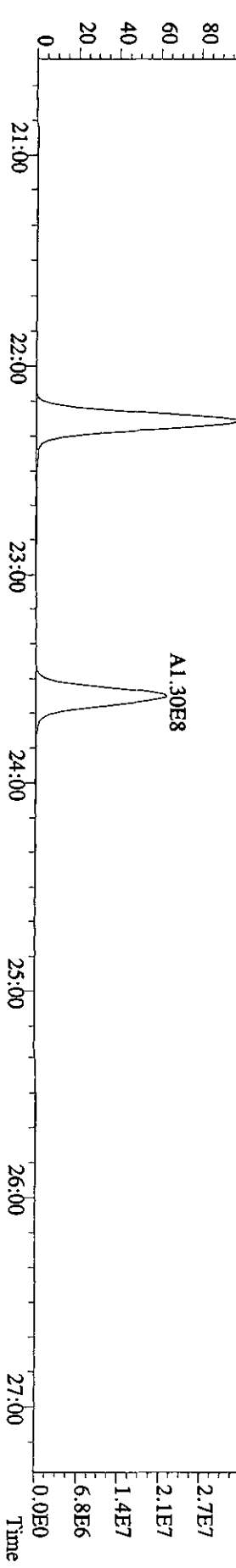
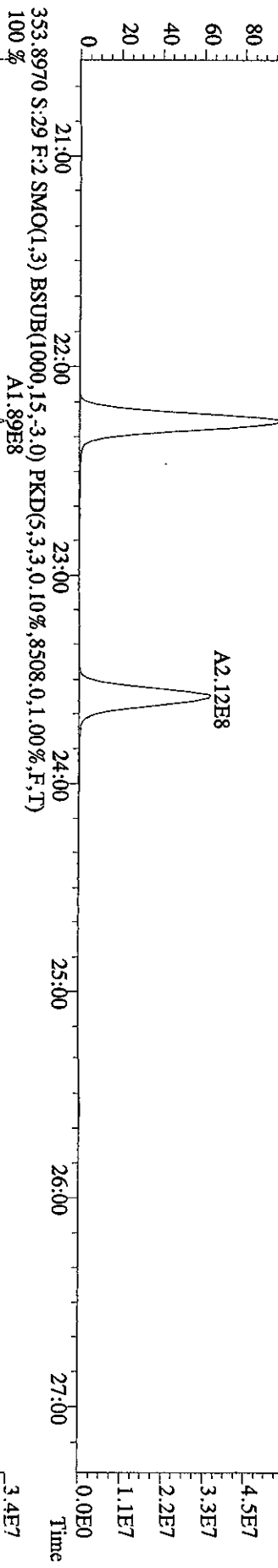
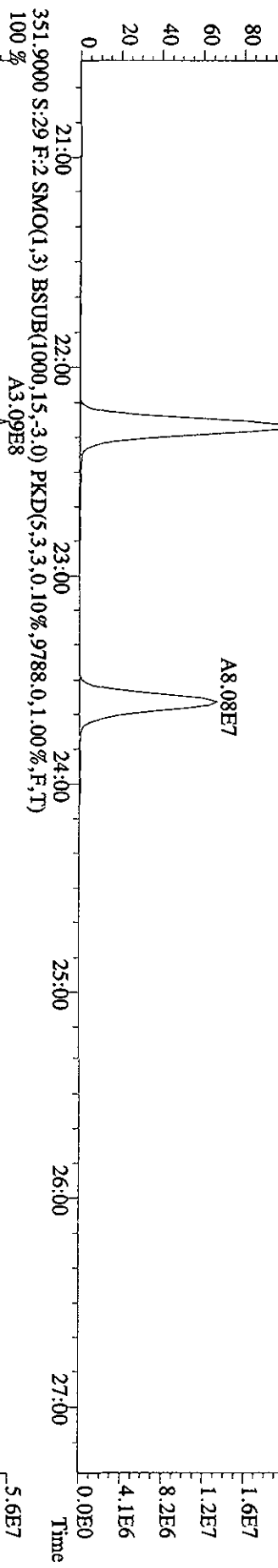
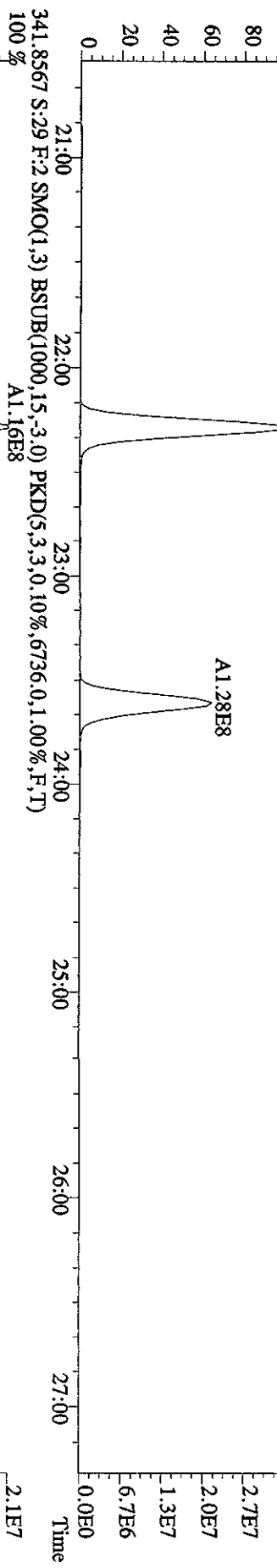
File: 27SE101D5 #1-382 Acq: 28-SEP-2010 05:31:26 GC EI+ Voltage SIR 70SE  
 Sample#29 Text: L7EX6-1-AD : G0I230000-392L Exp: DIOXINRES  
 319.8965 S:29 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2500,0,1,00%,F,T)  
 100%



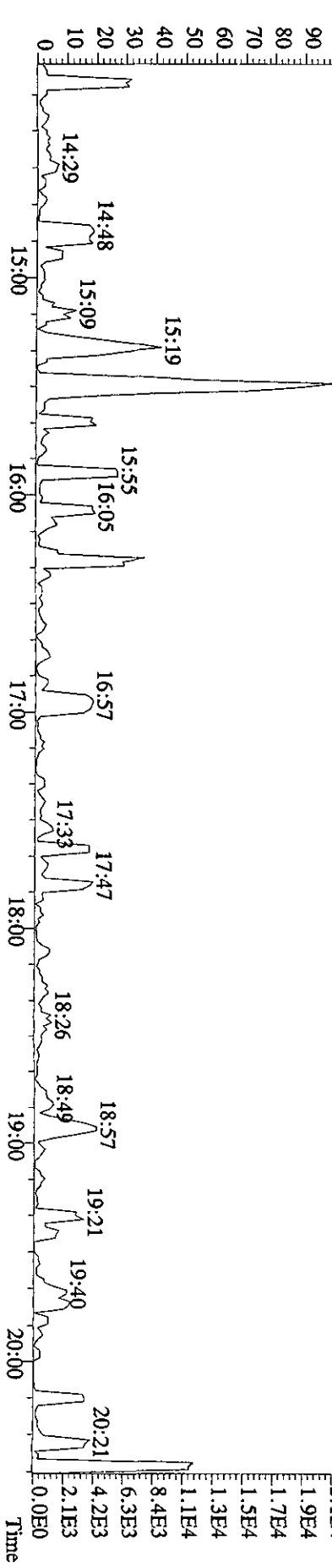
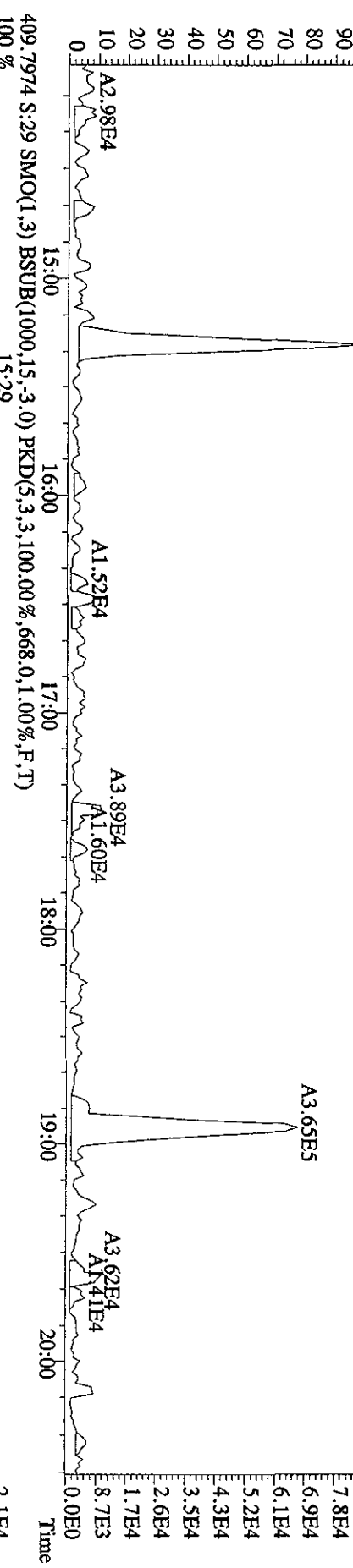
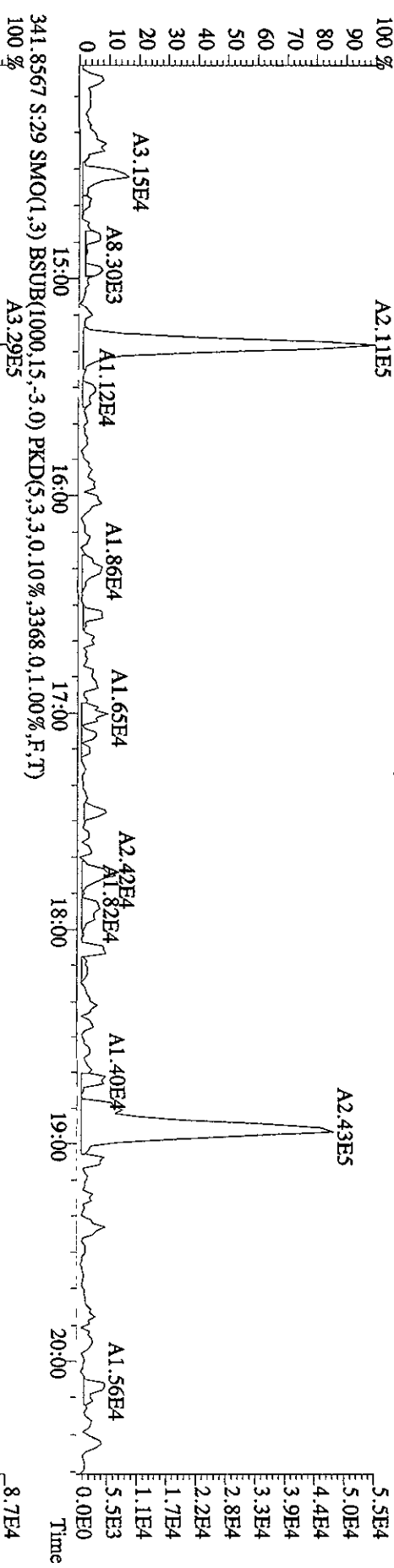
File: 27SE1010D5 #1-382 Acq: 28-SEP-2010 05:31:26 GC EI+ Voltage SFR 70SE  
 Sample# 29 Text: L7EX6-1-AD : G0I230000-392L Exp: DIOXINRES  
 327.8847 S: 29 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3468,0,1,100%,F,T)



File: 27SE101D5 #1-422 Acq: 28-SEP-2010 05:31:26 GC EI + Voltage SIR 70SE  
 Sample#29 Text: L7EX6-1-AD : G01230000-392L Exp: DIOXINRES  
 339.8597 S: 29 F: 2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3912,0,1,100%,F,T)  
 100 % A1.88E8



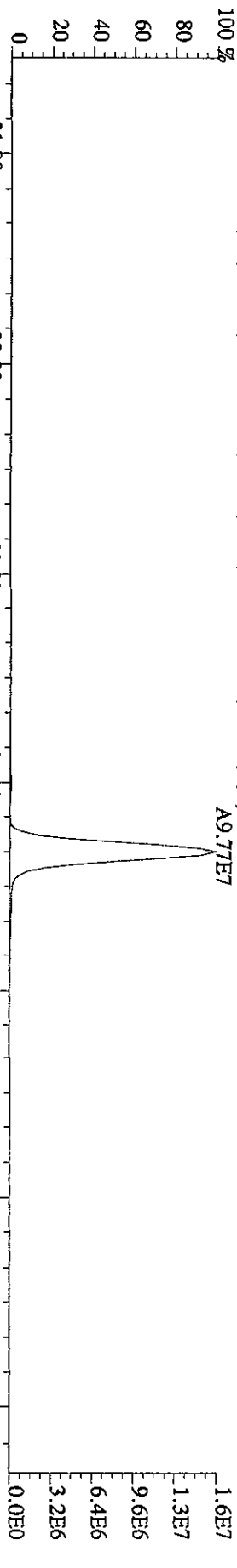
File: 27SE101D5 #1-382 Acq: 28-SEP-2010 05:31:26 GC EI+ Voltage SIR 70SE  
 Sample# 29 Text: L7EX6-1-AD : G0I230000-392L Exp: DIOXINRES  
 339.8597 S: 29 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1816,0,1,00%,F,T)



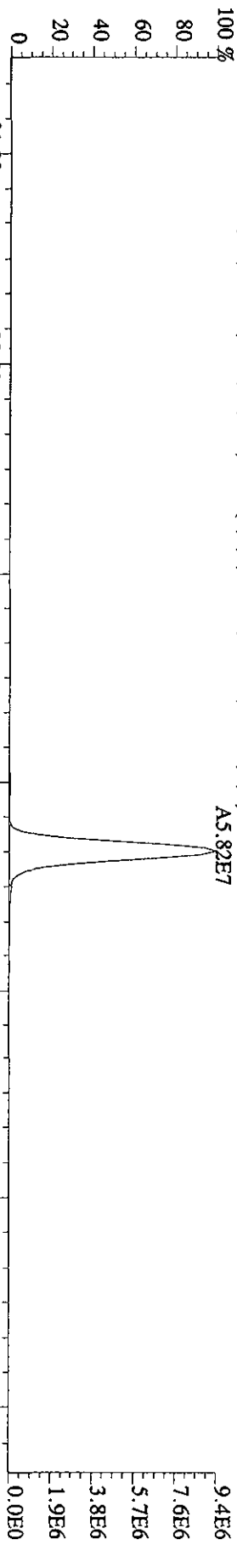
File: 27SE101D5 #1-422 Acq: 28-SEP-2010 05:31:26 GC EI + Voltage SIR\_70SE

Sample# 29 Text: L7EX6-1-AD : G0123000-392L Exp: DIOXINRES

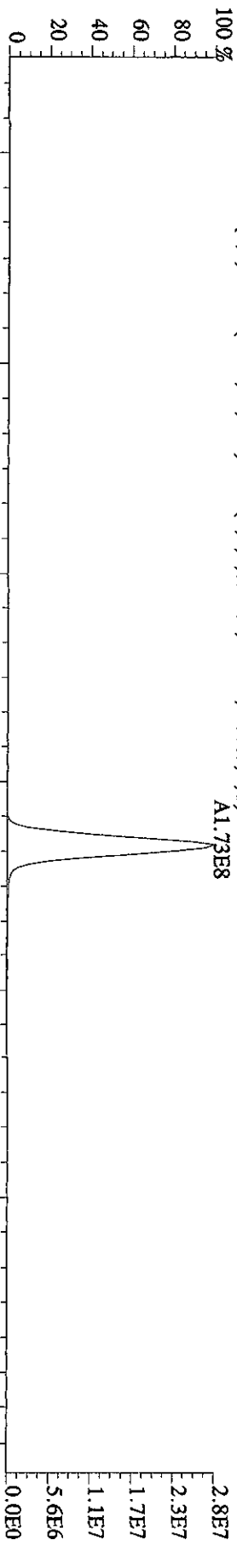
355.8546 S: 29 F: 2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4836,0,1.00%,F,T)



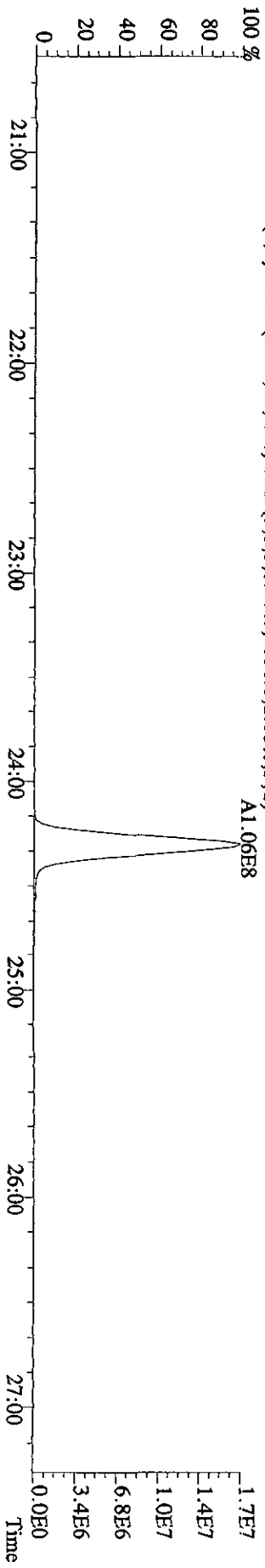
357.8516 S: 29 F: 2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1160,0,1.00%,F,T)



367.8949 S: 29 F: 2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4776,0,1.00%,F,T)

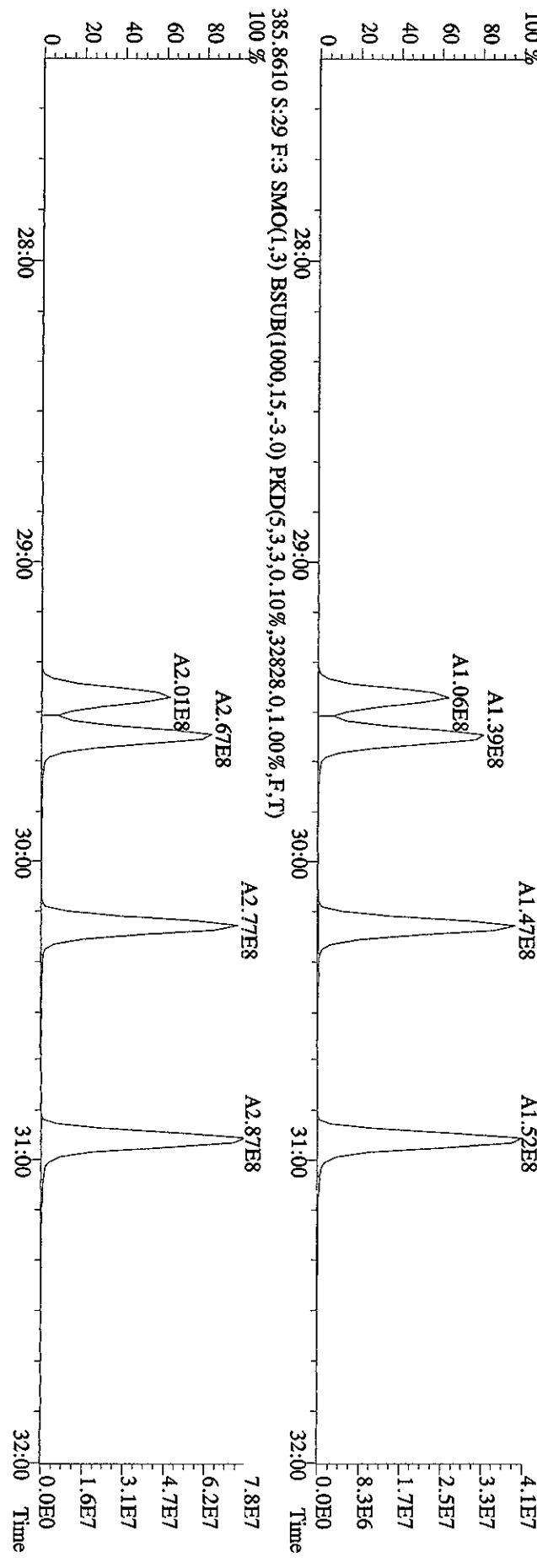
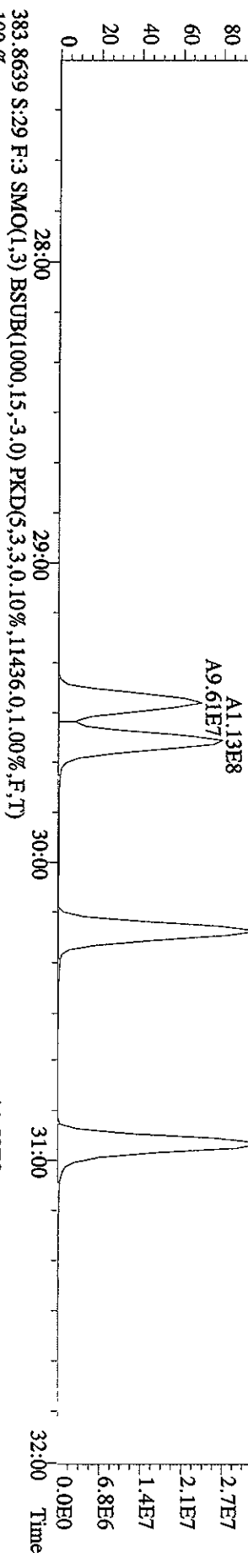
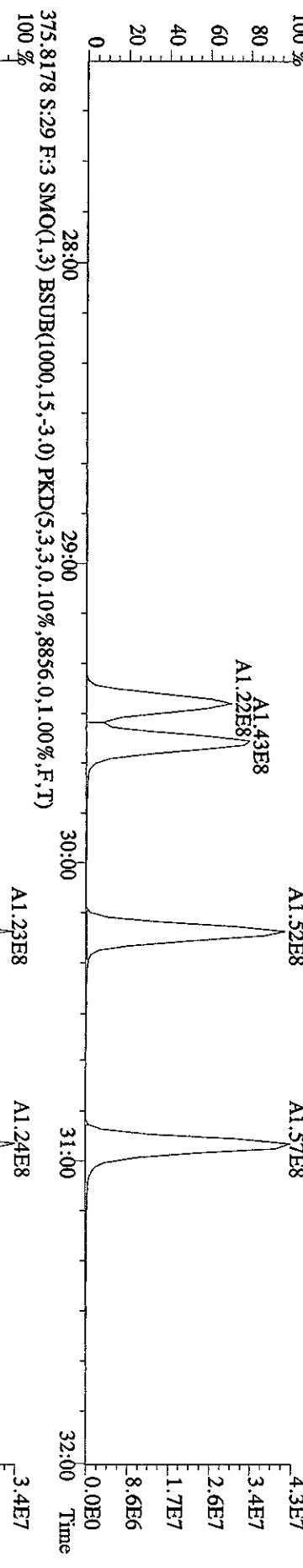


369.8919 S: 29 F: 2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2536,0,1.00%,F,T)

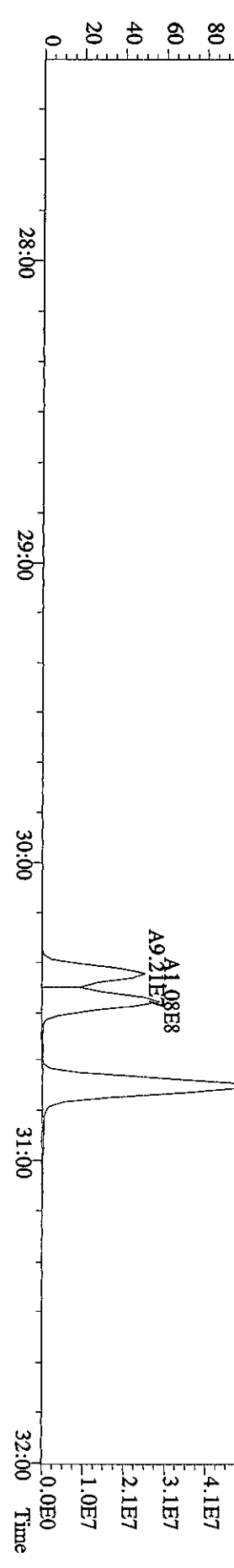
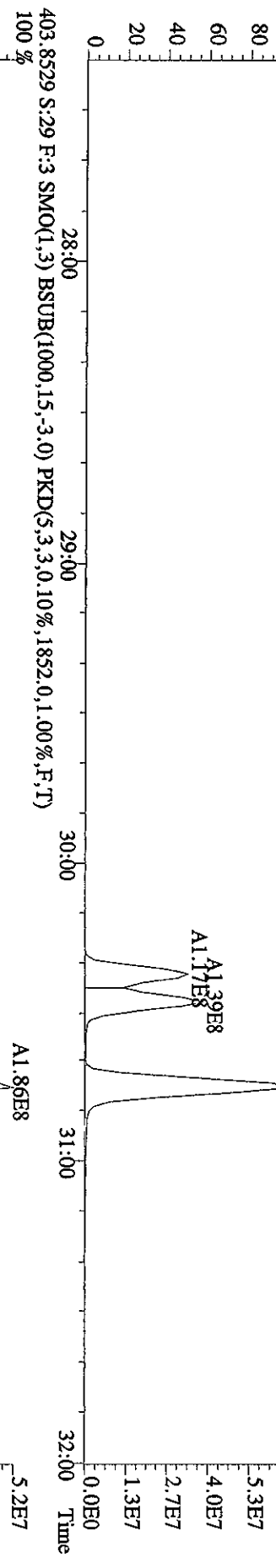
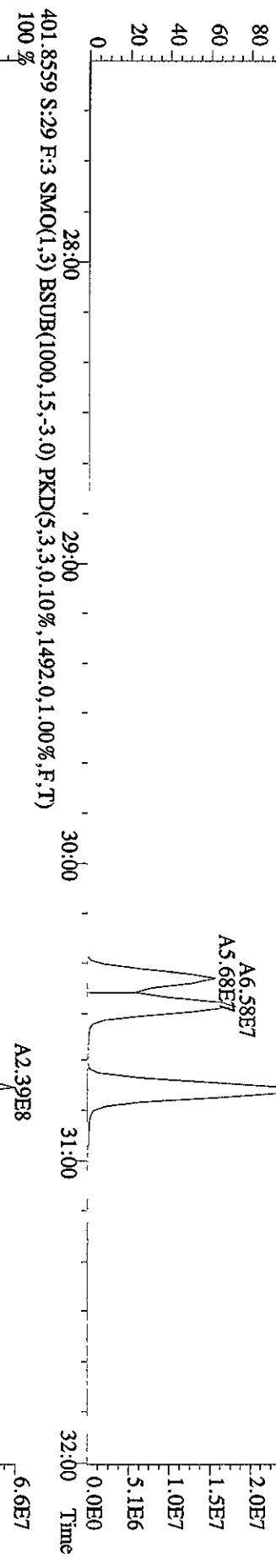
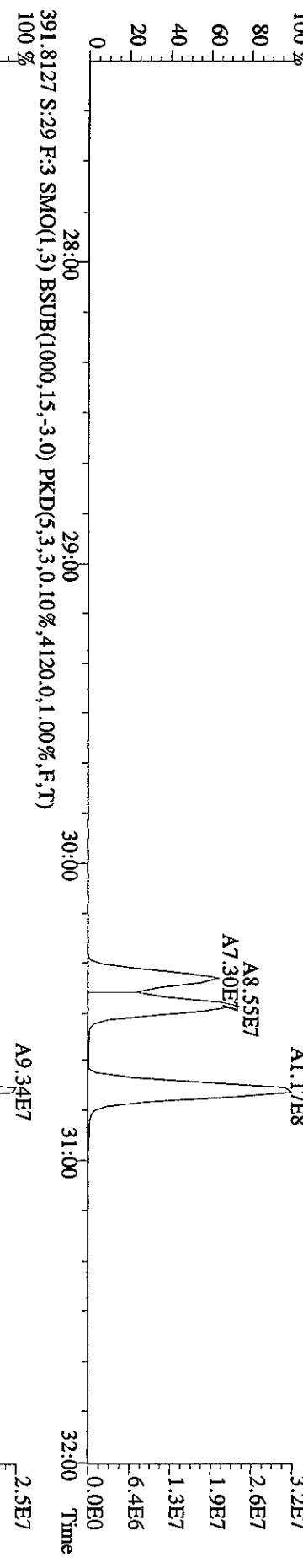




File:27SE101D5 #1-301 Acq:28-SEP-2010 05:31:26 GC EI + Voltage SIR 70SE  
 Sample#29 Text:L7EX6-1-AD :G0I230000-392L Exp:DIOXINRES  
 373.8208 S:29 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5940,0.1,00%,F,T)



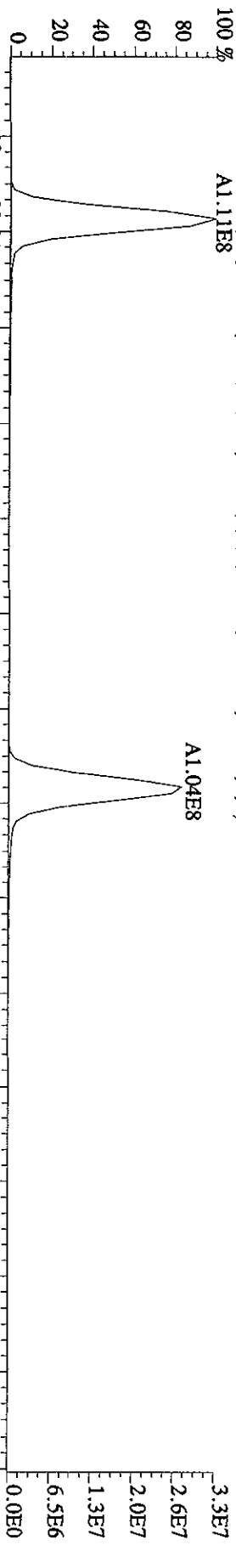
File:27SE101D5 #1-301 Acq:28-SEP-2010 05:31:26 GC EI+ Voltage SIR 70SE  
 Sample#29 Text:L7EX6-1-AD :G01230000-392L Exp:DIOXINRES  
 389.8157 S:29 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3060,0,1.00%,F,T)  
 100 %



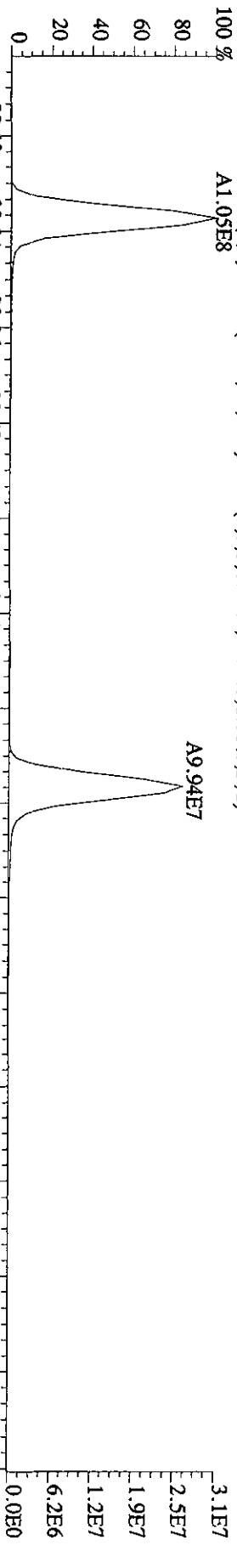
File: 27SE101D5 #1-203 Acq: 28-SEP-2010 05:31:26 GC EI+ Voltage SIR 70SE

Sample# 29 Text: LTEX6-1-AD : G01230000-392L Exp: DIOXINRES

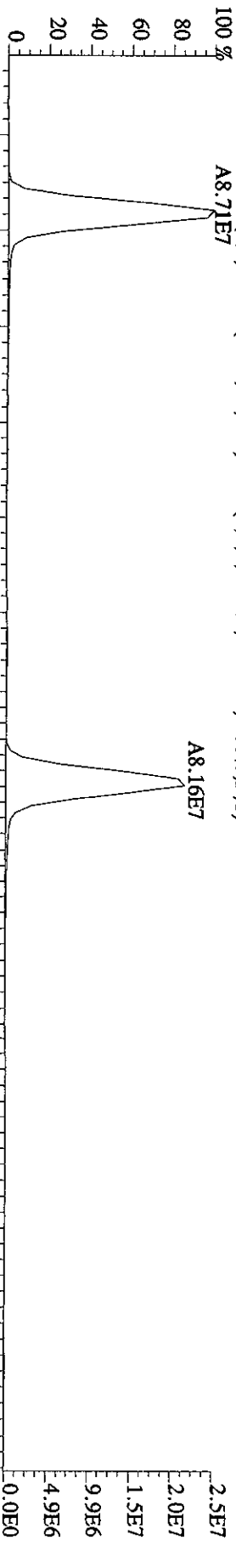
407.7818 S: 29 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,18044.0,1.00%,F,T) 100% A1.11E8



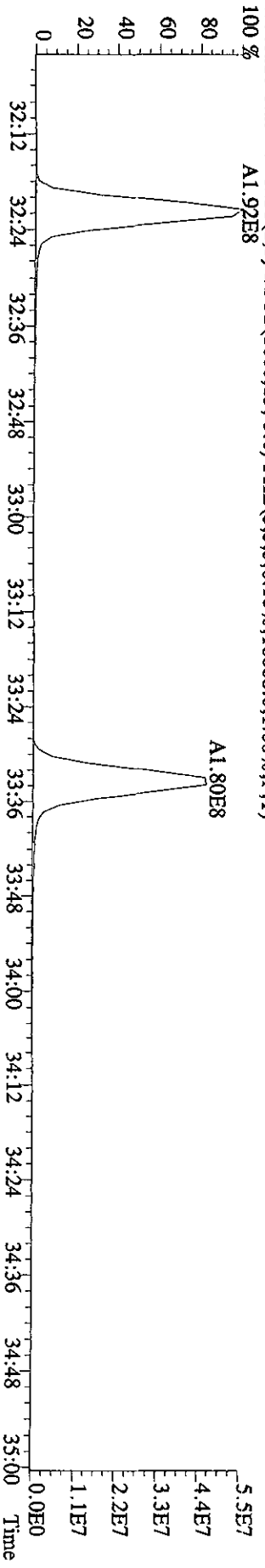
409.7789 S: 29 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,8432.0,1.00%,F,T) 100% A1.05E8



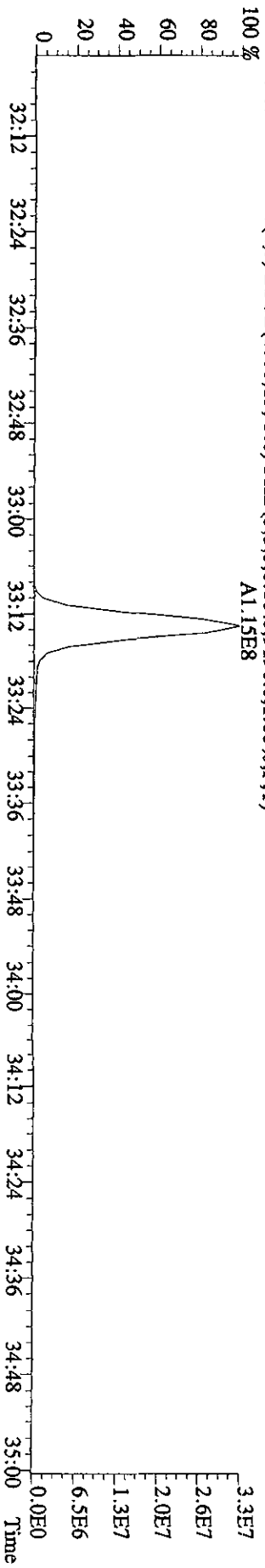
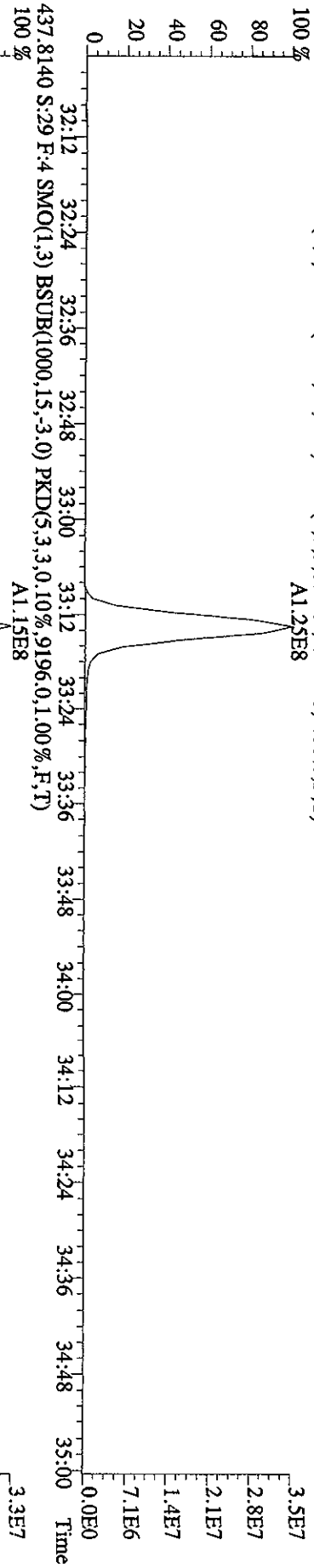
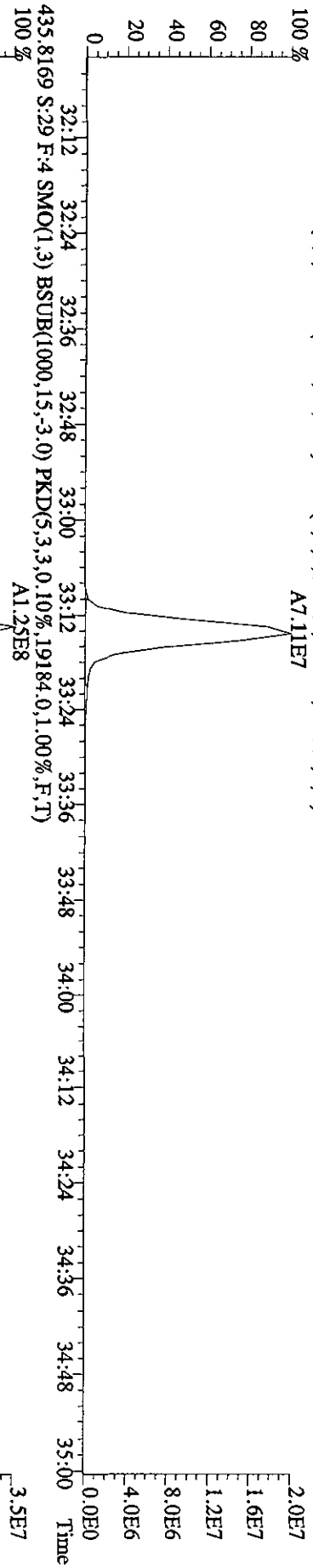
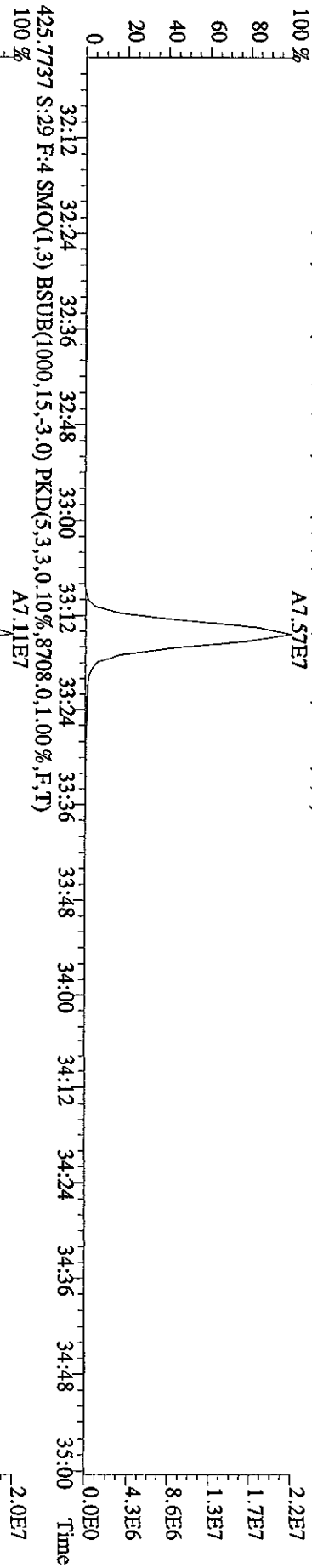
417.8253 S: 29 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,20152.0,1.00%,F,T) 100% A8.71E7



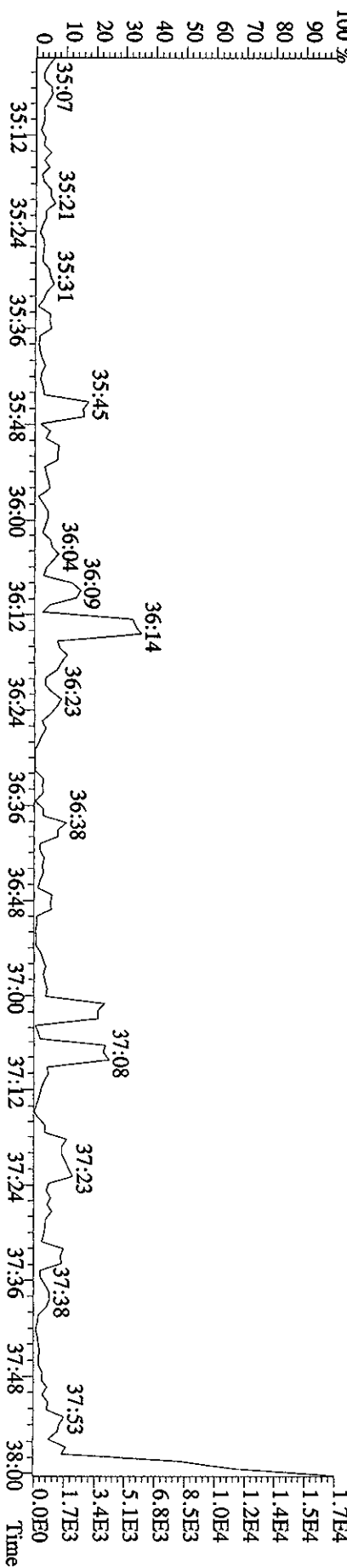
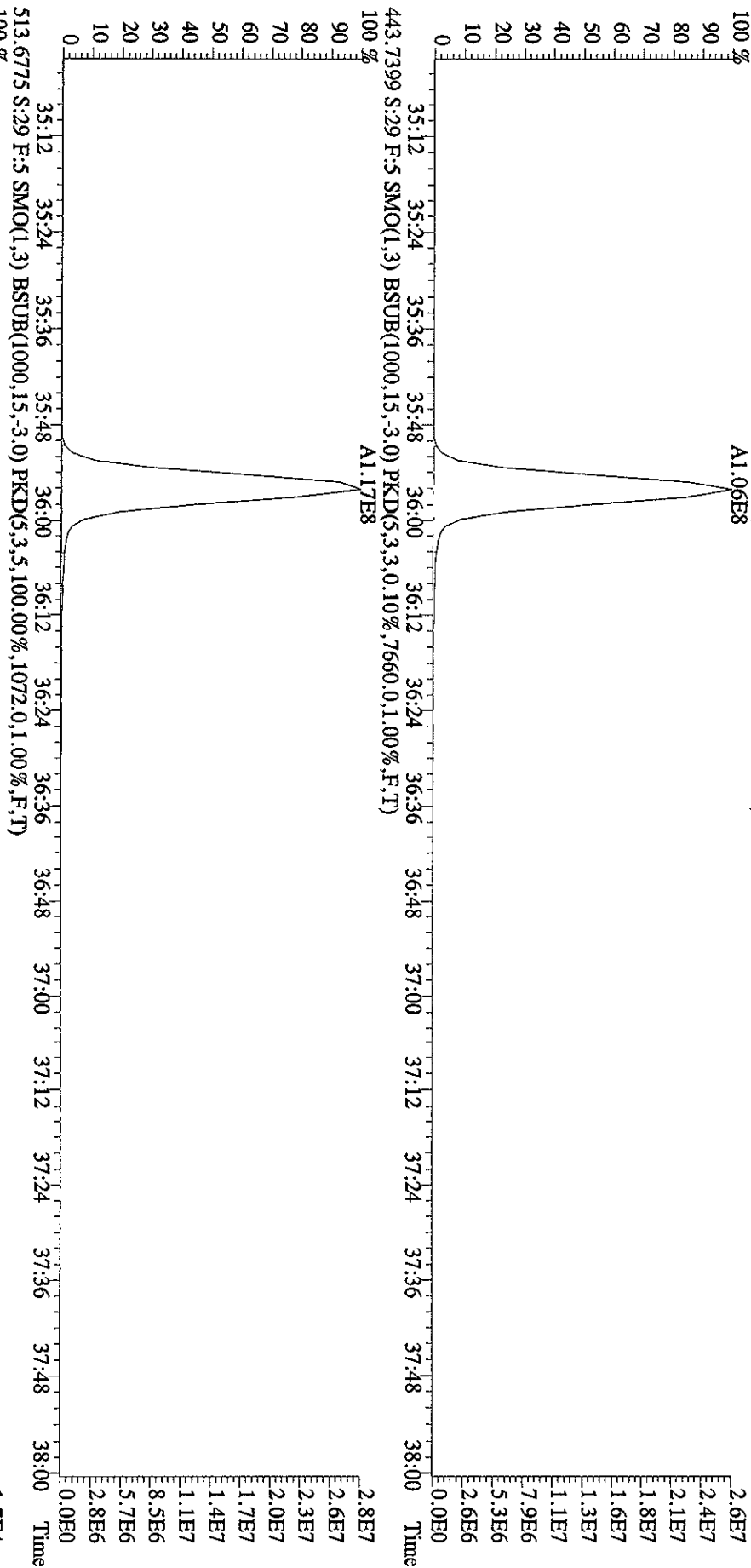
419.8220 S: 29 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,18888.0,1.00%,F,T) 100% A1.92E8



File: 27SE101D5 #1-203 Acq: 28-SEP-2010 05:31:26 GC EI+ Voltage SFR 70SE  
 Sample# 29 Text: L7EX6-1-AD : G0I230000-392L Exp: DIOXINRES  
 423.7766 S: 29 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5436,0,1.00%,F,T)  
 100% A7.57E7



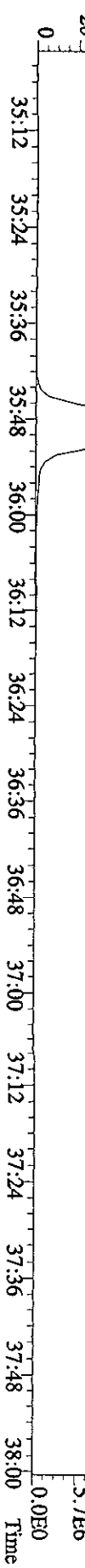
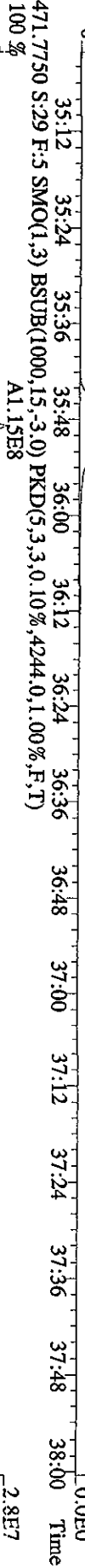
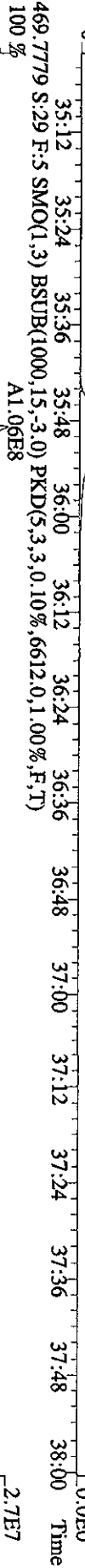
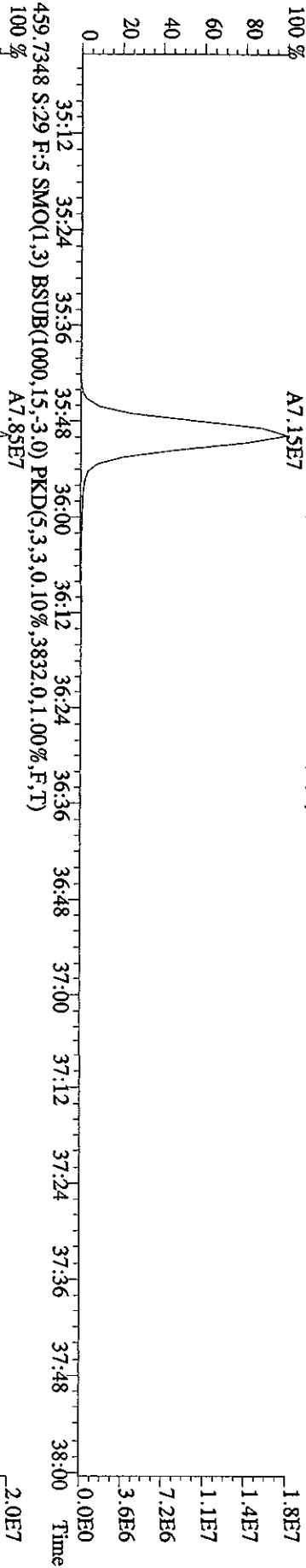
File:27SE101D5 #1-196 Acq:28-SEP-2010 05:31:26 GC EI+ Voltage SIR 70SE  
 Sample#29 Text:L7EX6-1-AD :G0I230000-392L Exp:DIOXINRES  
 441.7428 S:29 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5520.0,1.00%,F,T)  
 A1.06E8



File: 27SE101D5 #1-196 Acq. 28-SEP-2010 05:31:26 GC EI+ Voltage SIR 70SE

Sample#29 Text: L7EX6-1-AD : G01230000-392L Exp: DIOXINRES

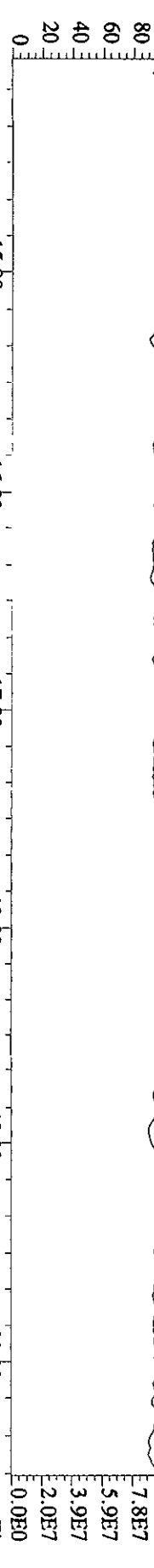
457.7377 S:29 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5076,0,1,00%,F,T)



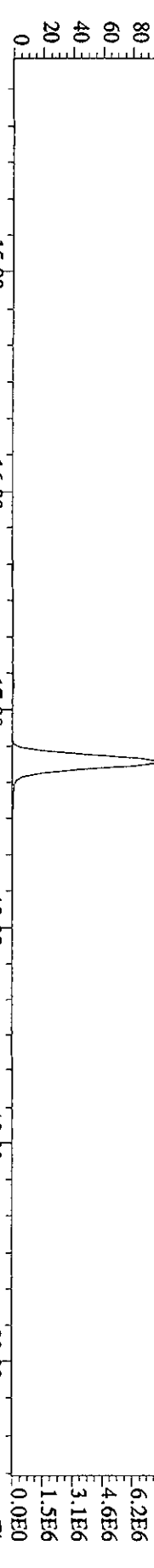
File: 27SE101D5 #1-382 Acq: 28-SEP-2010 05:31:26 GC EI+ Voltage SIR 70SE

Sample#29 Text: L7EX6-1-AD : G01230000-392L Exp: DIOXINRES

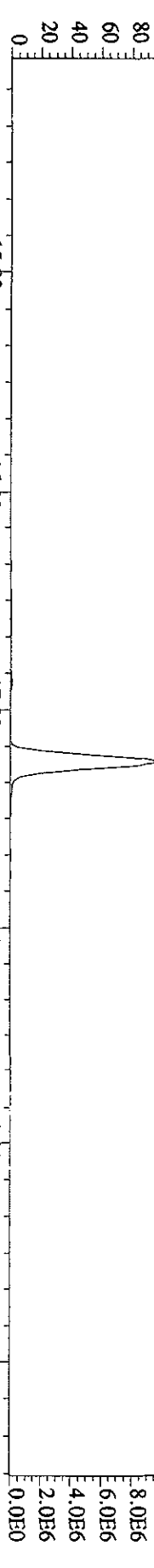
292.9825 S: 29 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



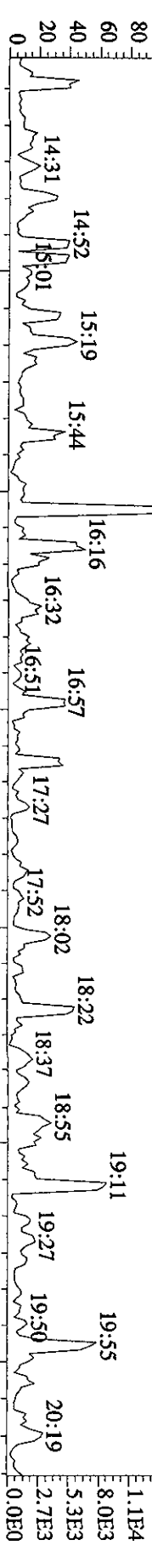
303.9016 S: 29 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2744,0,1.00%,F,T)



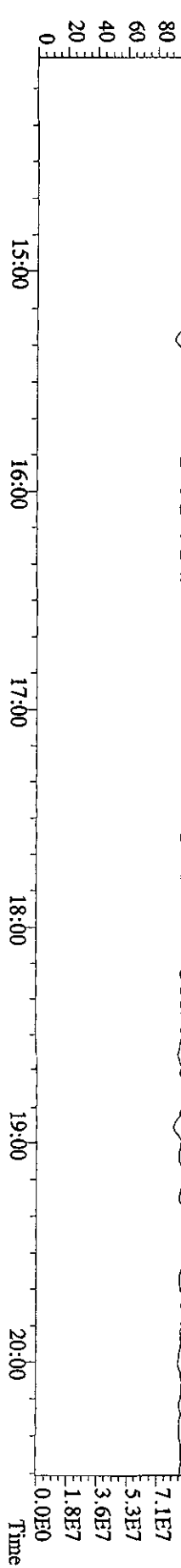
305.8987 S: 29 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4784,0,1.00%,F,T)



375.8364 S: 29 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1448,0,1.00%,F,T)



330.9792 S: 29 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

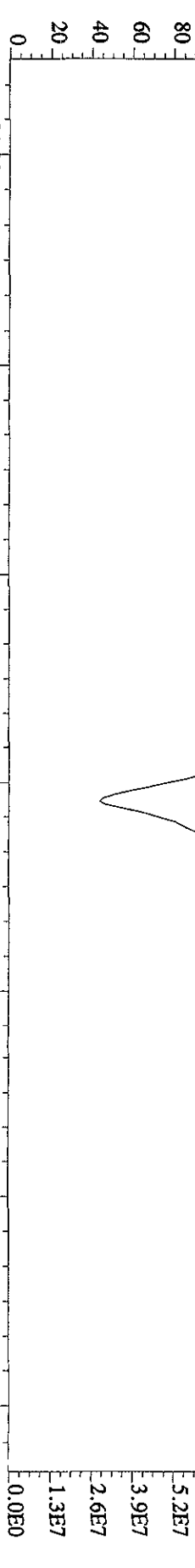


File: 27SE101D5 #1-422 Acq: 28-SEP-2010 05:31:26 GC EI+ Voltage SIR 70SE

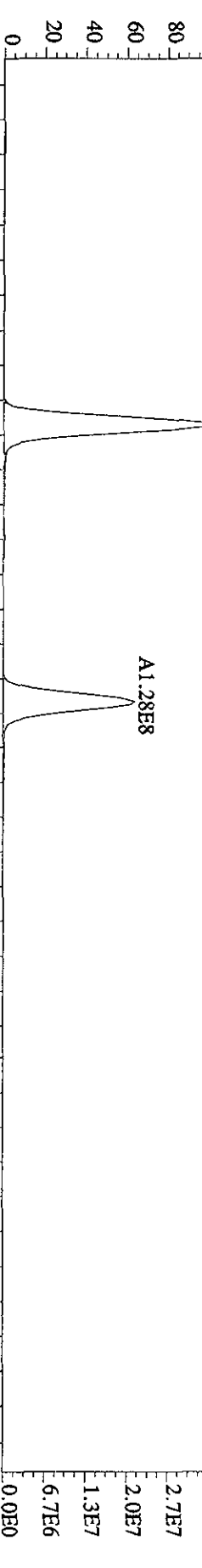
Sample#29 Text: LTEX6-1-AD : G01230000-392L Exp: DIOXINRES

342.9792 S: 29 F: 2 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)

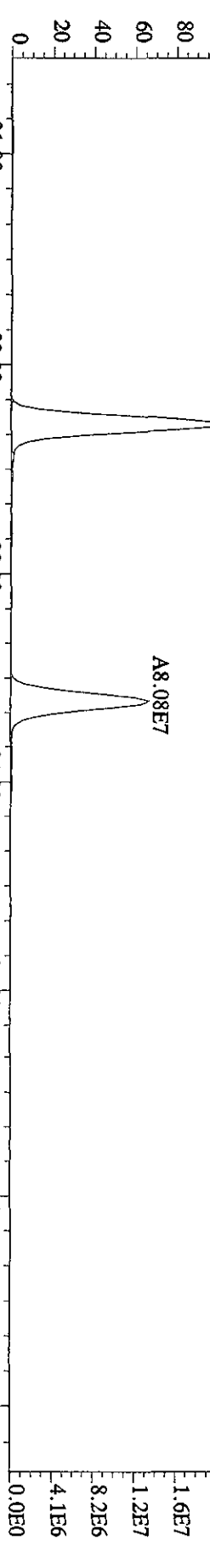
100% 21:00 21:42 22:18 22:44 23:08 23:49 24:17 24:43 25:07 26:03 26:52



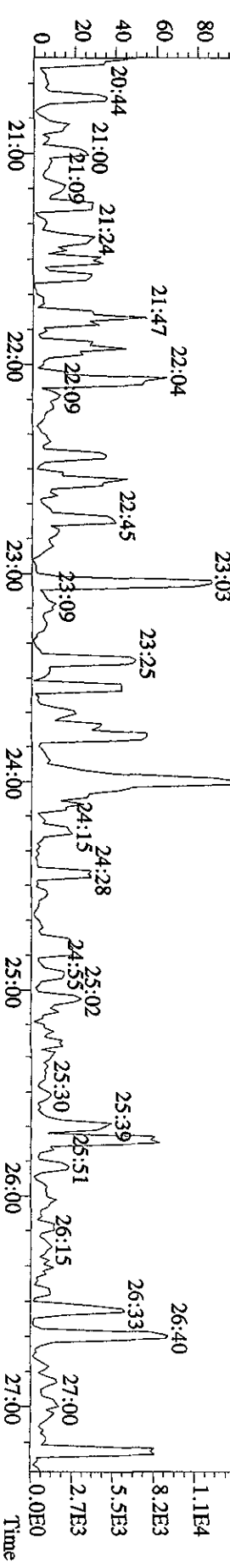
339.8597 S: 29 F: 2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3912,0,1,00%,F,T)



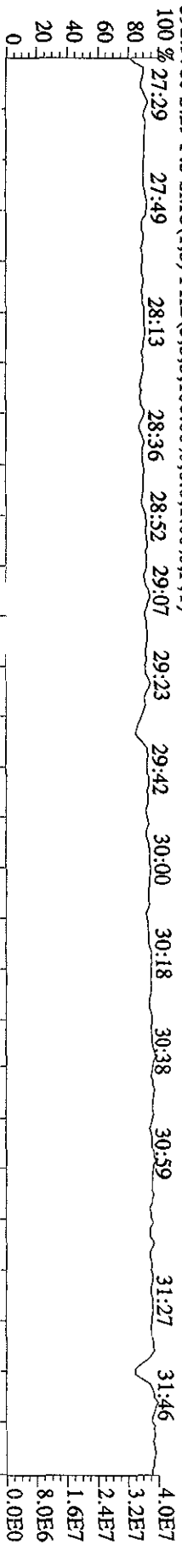
341.8567 S: 29 F: 2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6736,0,1,00%,F,T)



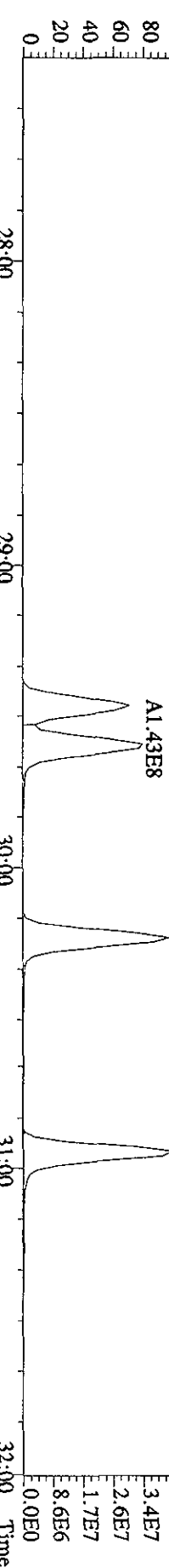
409.7974 S: 29 F: 2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,1324,0,1,00%,F,T)



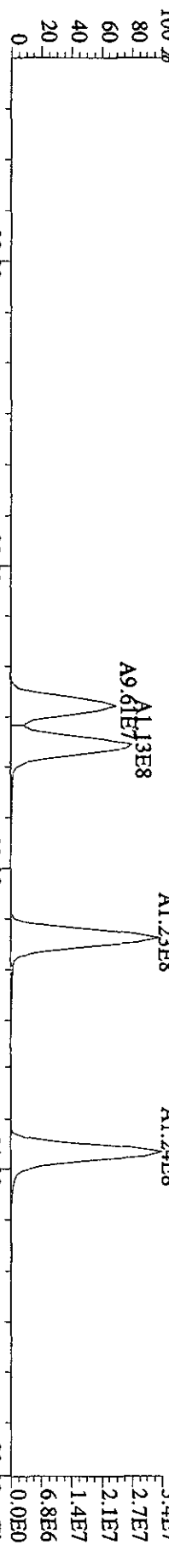




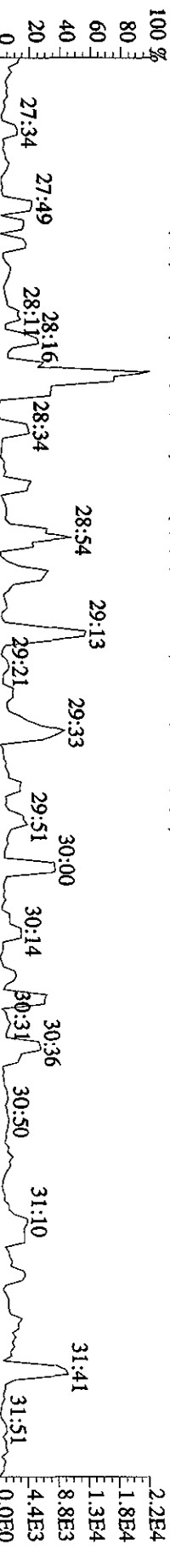
373.8208 S:29 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(S,3,3,0.10%,5940,0,1.00%,F,T)



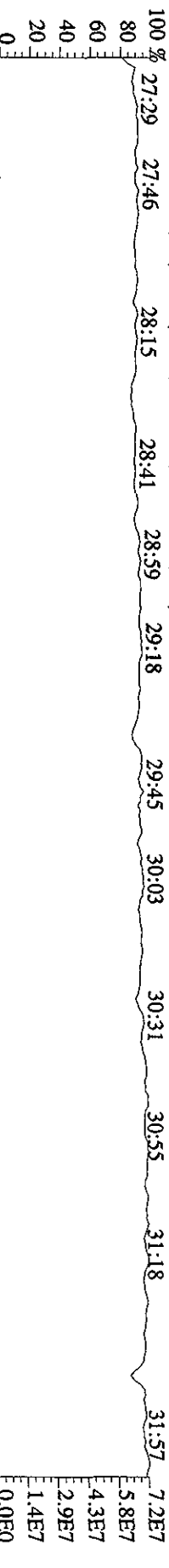
375.8178 S:29 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(S,3,3,0.10%,8856,0,1.00%,F,T)



445.7555 S:29 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(S,3,3,100.00%,1552,0,1.00%,F,T)

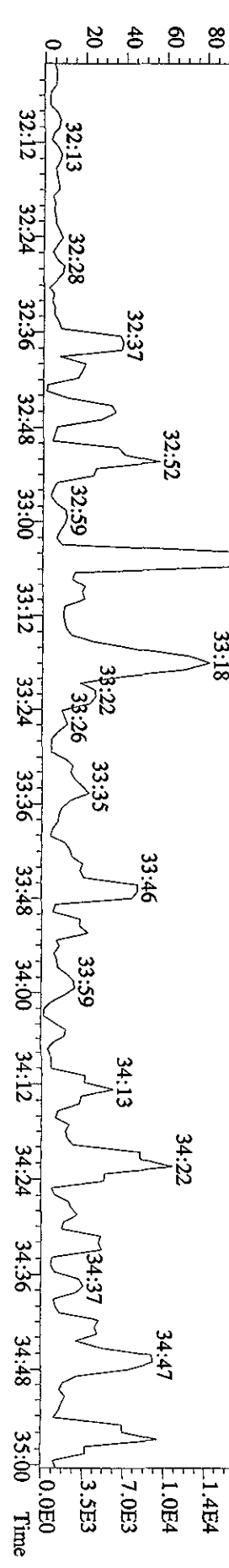
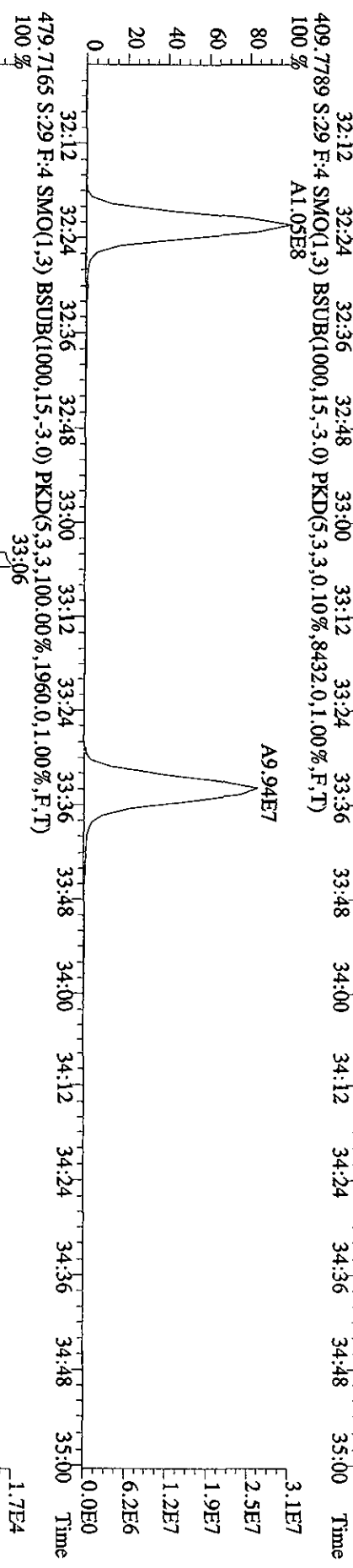
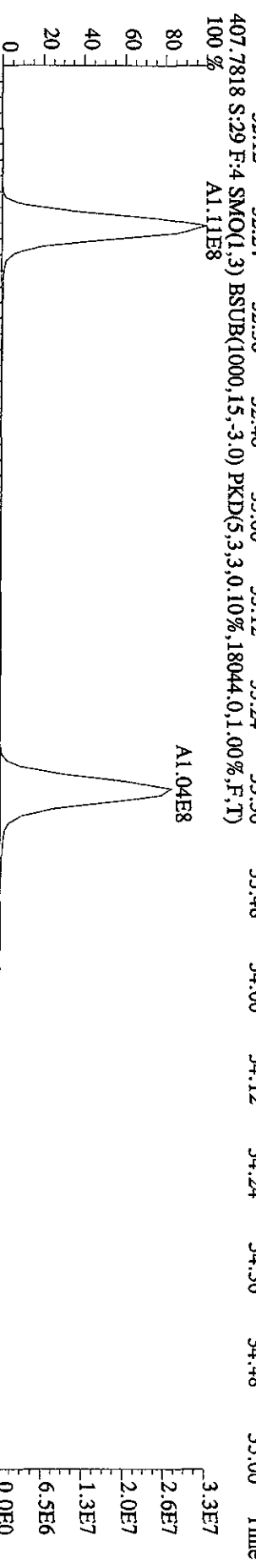
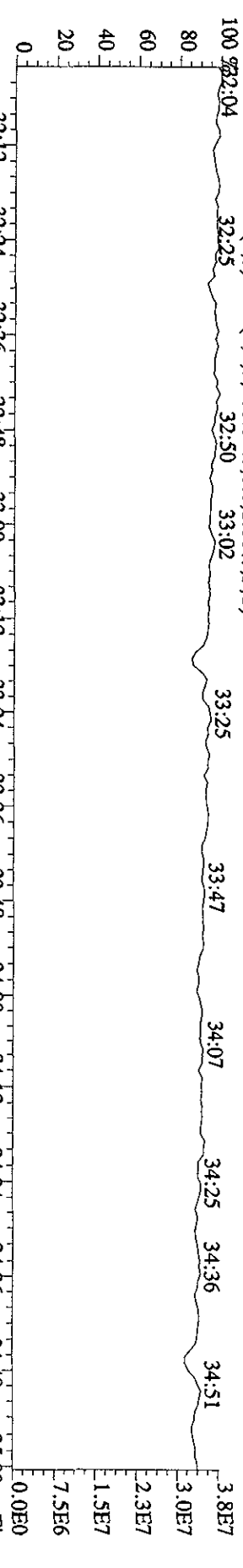


380.9760 S:29 F:3 SMO(1,3) PKD(S,3,3,100.00%,0.0,1.00%,F,T)

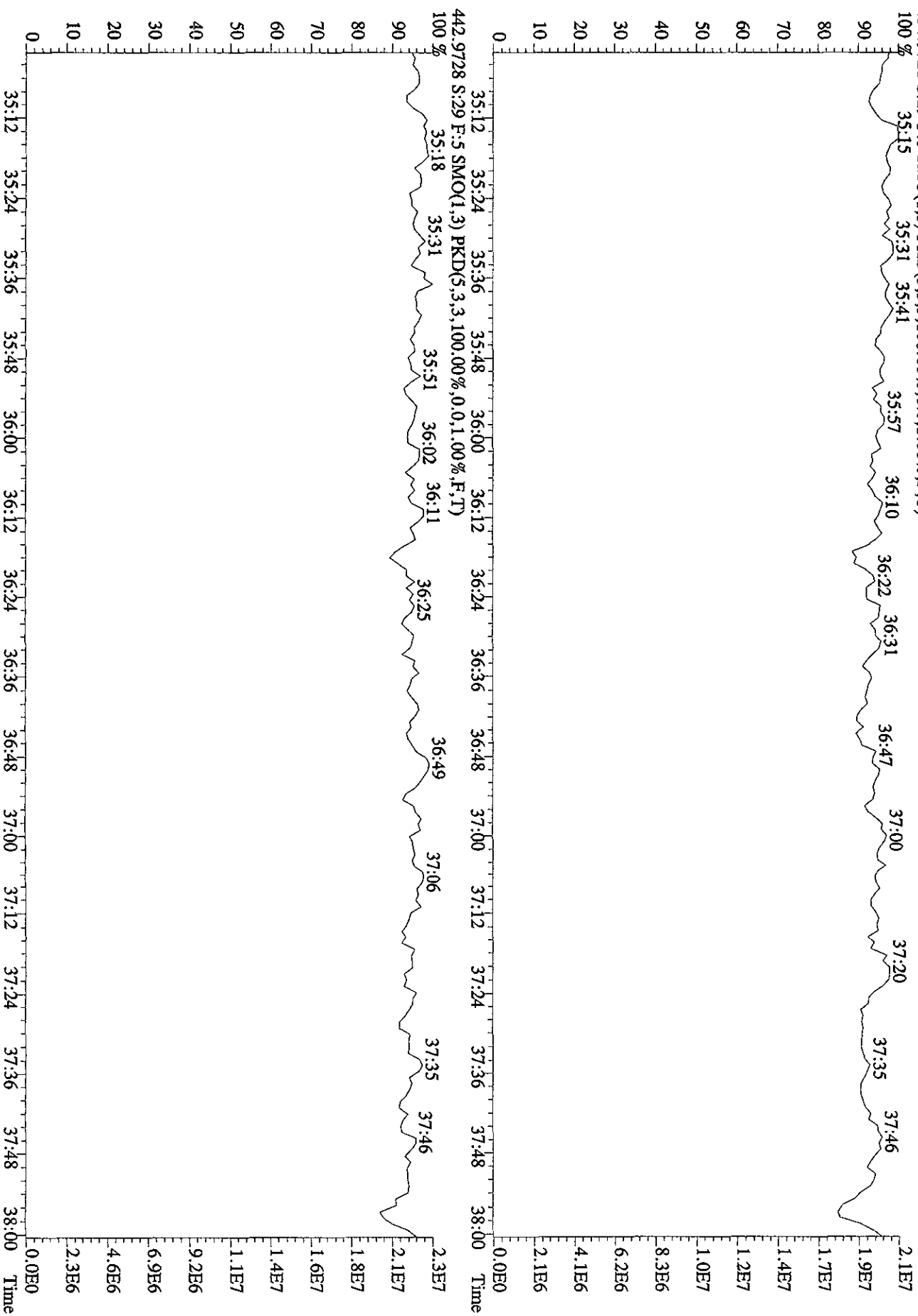


Time

File: 27SE101D5 #1-203 Acq: 28-SEP-2010 05:31:26 GC EI+ Voltage SIR 70SE  
 Sample# 29 Text: L7EX6-1-AD : G01230000-392L Exp: DIOXINRES  
 430.9728 S: 29 F: 4 SMO(1,3) PKD(5,3,100.00%,0.0,1.00%,F,T)  
 100% 32:04 32:25 32:50 33:02 33:25 33:47 34:07 34:25 34:36 34:51



File: 27SE101D5 #1-196 Acq: 28-SEP-2010 05:31:26 GC EI + Voltage SIR 70SE  
 Sample# 29 Text: L7EX6-1-AD : G01230000-392L Exp: DIOXINRES  
 454.9728 S: 29 F: 5 SMO(1,3) PKD(5,3,100.00%,0.0,1.00%,F,T)  
 100%



Run text: L7DQH-1-AA      Sample text: L7DQH-1-AA :G0I230491-1  
 Run #9    Filename: 27SE101D5    S: 19    I: 1      Results: 27SE101D5TO9  
 Acquired: 27-SEP-10    22:21:52      Processed: 28-SEP-10    09:22:52  
 Run: 27SE101D5      Analyte: TO9              Cal: TO90914101D5  
 Factor 1: 1600.000    Factor 2: 20.000      Sample size: 0.500000Sample

*05  
09-22-10*

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	541875000	0.80 y	17:44	-	310.14	-	-	n
13C-2,3,7,8-TCDF	751198000	0.81 y	17:14	1.56	3547.62	1.71	88.7	n
2,3,7,8-TCDF	426422	0.70 y	17:14	0.98	2.31 J	0.91	-	n
Total TCDF	872825	0.79 y	15:34	0.98	4.72 J	0.91	-	n
13C-2,3,7,8-TCDD	482901000	0.80 y	17:56	0.92	3870.90	3.10	96.8	n
2,3,7,8-TCDD	122719	1.26 n	17:56	1.03	<del>0.99</del>	1.30	-	n
Total TCDD	182820	1.26 n	17:56	1.03	<del>1.47</del>	1.30	-	n
37Cl-2,3,7,8-TCDD	263084000	1.00 y	17:58	1.23	1777.09	2.34	111.1	n
13C-1,2,3,7,8-PeCDF	572927000	1.62 y	22:16	1.05	4018.04	2.44	100.5	n
1,2,3,7,8-PeCDF	177659	3.44 n	22:19	1.09	<del>1.14</del>	1.24	-	n
2,3,4,7,8-PeCDF	118757	1.82 n	23:38	1.02	<del>0.81</del>	1.33	-	n
Total F2 PeCDF	1283495	1.64 y	20:58	1.05	<del>8.48</del> 5.72 J	1.29	-	n
Total F1 PeCDF	851598	0.72 n	15:17	1.05	<del>5.64</del>	<del>1.22</del>	-	n
13C-1,2,3,7,8-PeCDD	343126000	1.62 y	24:19	0.56	4516.01	2.86	112.9	n
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.07	*	1.93	-	n
Total PeCDD	862433	3.25 n	22:18	1.07	<del>9.39</del> 8.54 J	<del>1.93</del>	-	n
13C-1,2,3,7,8,9-HxCDD	428302000	1.28 y	30:46	-	260.98	-	-	n
13C-1,2,3,4,7,8-HxCDF	316388000	0.52 y	29:27	0.99	2982.11	5.83	74.6	n
1,2,3,4,7,8-HxCDF	275943	1.58 n	29:28	1.26	<del>2.77</del>	3.15	-	n
1,2,3,6,7,8-HxCDF	338687	1.22 y	29:36	1.53	2.80 J	2.60	-	n
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.41	*	2.82	-	n
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.40	*	2.85	-	n
Total HxCDF	614630	1.58 n	29:28	1.40	<del>5.56</del> 2.80 J	<del>2.84</del> 3.15	-	n
13C-1,2,3,6,7,8-HxCDD	245399000	1.31 y	30:28	0.74	3099.21	5.77	77.5	n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.12	*	4.24	-	n
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.14	*	4.16	-	n
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.35	*	3.50	-	n
Total HxCDD	205558	1.11 y	30:56	1.20	<del>2.78</del>	<del>3.94</del> 4.24	-	n
13C-1,2,3,4,6,7,8-HpCDF	251817700	0.45 y	32:23	0.96	2459.75	7.24	61.5	n
1,2,3,4,6,7,8-HpCDF	837489	1.91 n	32:23	1.41	9.45 J, Q	2.87	-	n
1,2,3,4,7,8,9-HpCDF	312765	0.92 y	33:34	1.24	4.02 J	3.28	-	n
Total HpCDF	2712130	1.91 n	32:23	1.32	<del>32.23</del> 24.54 J, Q	3.06	-	n
13C-1,2,3,4,6,7,8-HpCDD	233562000	1.12 y	33:14	0.71	3062.74	9.55	76.6	n
1,2,3,4,6,7,8-HpCDD	924476	1.19 y	33:17	1.13	13.96 J	4.44	-	n
Total HpCDD	1701265	2.17 n	32:23	1.13	<del>25.69</del> 13.96	4.44	-	n
13C-OCDD	237534000	0.92 y	35:49	0.35	6289.97	11.04	78.6	n
OCDF	857173	0.80 y	35:56	2.12	13.63 J	3.69	-	n
OCDD	568829	0.95 y	35:50	1.37	13.97 J	6.04	-	n

Run Text: L7DQH-1-AA

Sample text: L7DQH-1-AA :G0I230491-1

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:3  
 Run: 9 File: 27SE101D5 S:19 Acq:27-SEP-10 22:21:52  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 2.36 of which 1.15 named and 1.21 unnamed  
 Conc: 4.72 of which 2.31 named and 2.42 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:34	0.79	y	1.16	94527	2.9	n n
						119652	4.1	y n
	2	16:51	0.93	n	1.26	121363	3.5	y n
						131200	5.4	y n
2,3,7,8-TCDF	3	17:14	0.70	y	2.31	175648	5.9	y n
						250774	7.7	y n

Run Text: L7DQH-1-AA

Sample text: L7DQH-1-AA :G0I230491-1

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:2  
 Run: 9 File: 27SE101D5 S:19 Acq:27-SEP-10 22:21:52  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 0.73 of which 0.49 named and 0.24 unnamed  
 Conc: 1.47 of which 0.99 named and 0.48 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
2,3,7,8-TCDD	1	17:56	1.26	n	0.99	87373	3.6	y n
						69333	2.9	n n
	2	18:55	1.67	n	0.48	56646	2.6	n n
						33955	1.6	n n

Run Text: L7DQH-1-AA

Sample text: L7DQH-1-AA :G0I230491-1

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:4  
 Run: 9 File: 27SE101D5 S:19 Acq:27-SEP-10 22:21:52  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 4.24 of which 0.98 named and 3.27 unnamed  
 Conc: 8.48 of which 1.95 named and 6.53 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:58	1.64 y	<del>0.82</del>	76768 46710	2.7 1.9	n n	n n
1,2,3,7,8-PeCDF	2	22:19	3.44 n	<del>1.14</del>	239360 69670	7.9 3.2	y y	n n
2,3,4,7,8-PeCDF	3	23:38	1.82 n	<del>0.81</del>	84914 46571	2.5 2.0	n n	n n
	4	24:02	0.73 n	5.72	524934 717264	14.1 17.2	y y	n n

Run Text: L7DQH-1-AA

Sample text: L7DQH-1-AA :G0I230491-1

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:2  
 Run: 9 File: 27SE101D5 S:19 Acq:27-SEP-10 22:21:52  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D7

Amount: 2.82 of which \* named and 2.82 unnamed  
 Conc: 5.64 of which \* named and 5.64 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:17	0.72	n 3.09	283787	12.3	y	n
					394852	16.5	y	n
	2	18:56	0.54	n 2.55	233851	10.3	y	n
					430655	15.2	y	n



Run Text: L7DQH-1-AA

Sample text: L7DQH-1-AA :G0I230491-1

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:2  
 Run: 9 File: 27SE101D5 S:19 Acq:27-SEP-10 22:21:52  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 4.70 of which \* named and 4.70 unnamed  
 Conc: 9.39 of which \* named and 9.39 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	22:18	3.25	<del>0.86</del>	100112	3.2	y	n
					30793	1.9	n	n
	2	24:02	2.86	8.54	878988	26.0	y	n
					307416	10.3	y	n

Run Text: L7DQH-1-AA

Sample text: L7DQH-1-AA :G0I230491-1

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:2  
 Run: 9 File: 27SE101D5 S:19 Acq:27-SEP-10 22:21:52  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 2.78 of which 2.78 named and \* unnamed  
 Conc: 5.56 of which 5.56 named and \* unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,7,8-HxCDF	1	29:28	1.58	n	2.77	194334	3.6	y n
						123189	2.3	n n
1,2,3,6,7,8-HxCDF	2	29:36	1.22	y	2.80	185865	3.4	y n
						152822	2.6	n n

Run Text: L7DQH-1-AA

Sample text: L7DQH-1-AA :G0I230491-1

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:1  
 Run: 9 File: 27SE101D5 S:19 Acq:27-SEP-10 22:21:52  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 1.39 of which \* named and 1.39 unnamed  
 Conc: 2.78 of which \* named and 2.78 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	30:56	1.11	y 2.78	108038	2.5	n	n
					97520	2.1	n	n

Run Text: L7DQH-1-AA

Sample text: L7DQH-1-AA :G0I230491-1

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:5  
 Run: 9 File: 27SE101D5 S:19 Acq:27-SEP-10 22:21:52  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 16.12 of which 6.73 named and 9.38 unnamed  
 Conc: 32.23 of which 13.47 named and 18.77 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	32:23	1.91	n	9.45	784675 410534	14.4 10.8	y	n
	2	32:43	0.91	y	4.97	197143	3.3	y	n
						216475	4.4	y	n
3	33:18	0.65	n	<del>6.10</del>	258909	5.2	y	n	
					396517	9.2	y	n	
1,2,3,4,7,8,9-HpCDF	4	33:34	0.92	y	4.02	149906	3.0	n	n
						162859	4.2	y	n
5	34:47	0.91	y	<del>7.69</del>	304950	4.4	y	n	
					335448	8.1	y	n	

18.44

Run Text: L7DQH-1-AA

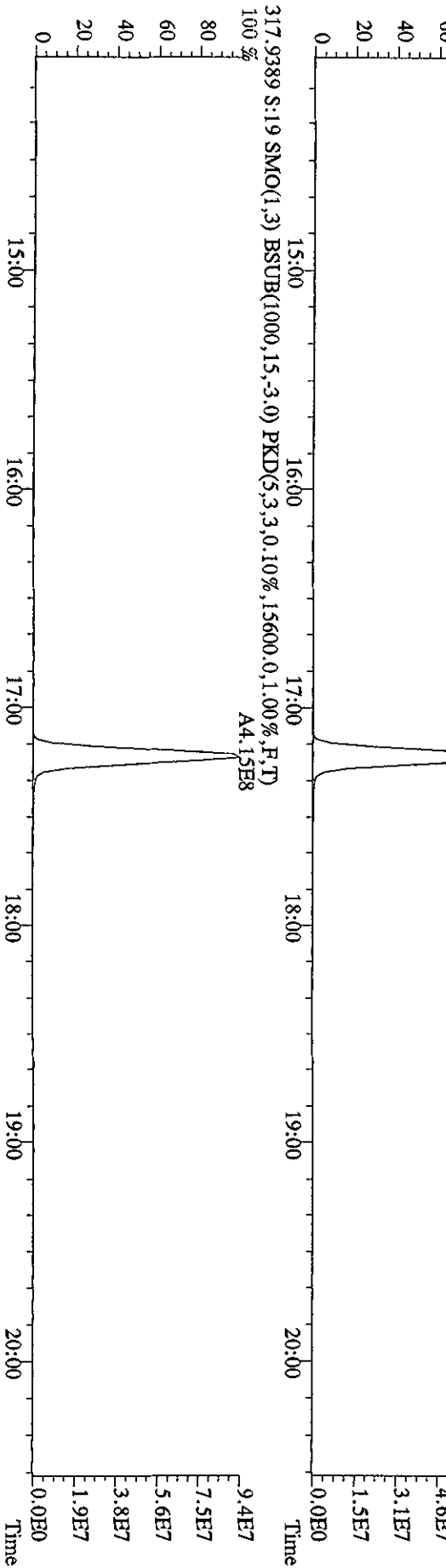
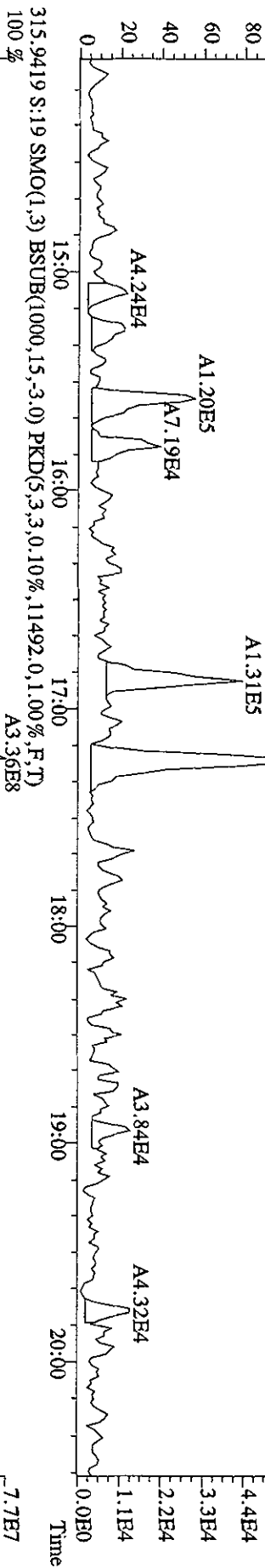
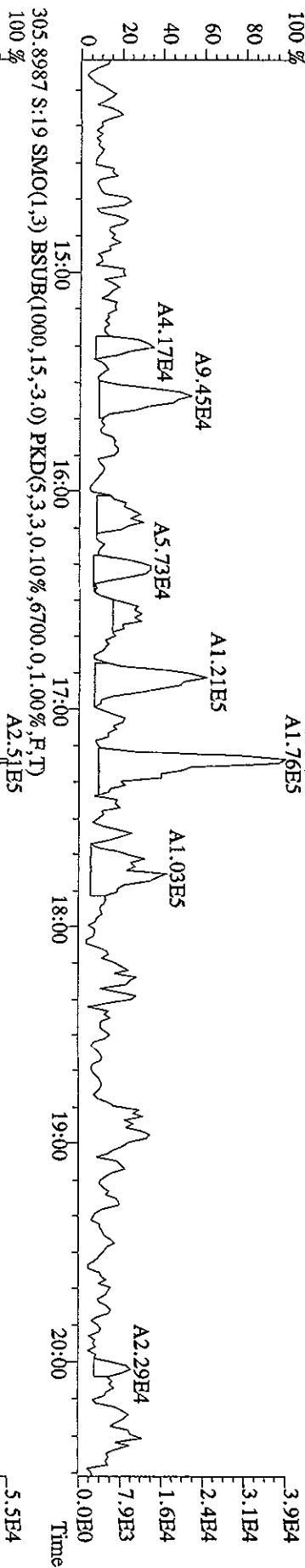
Sample text: L7DQH-1-AA :G0I230491-1

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:4  
 Run: 9 File: 27SE101D5 S:19 Acq:27-SEP-10 22:21:52  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D7

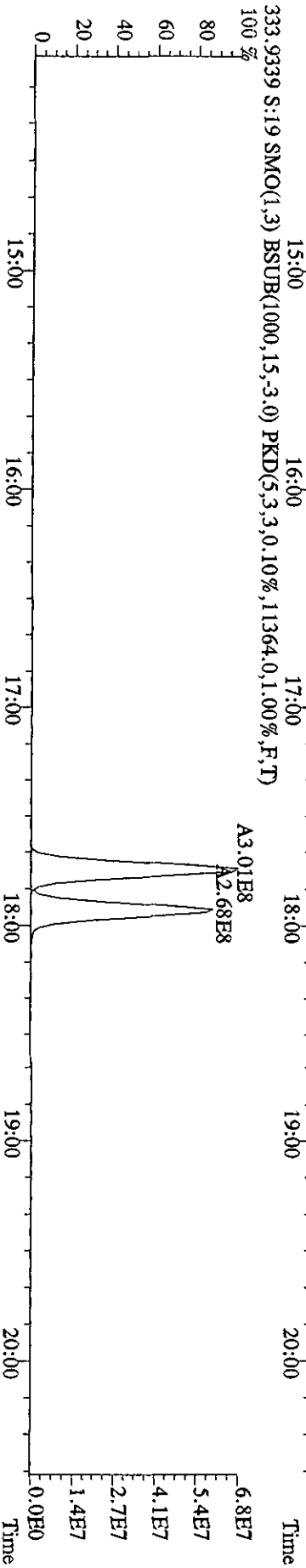
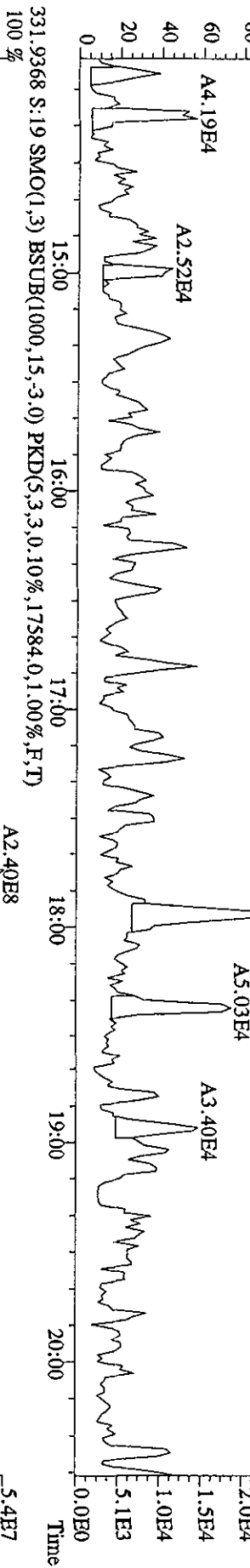
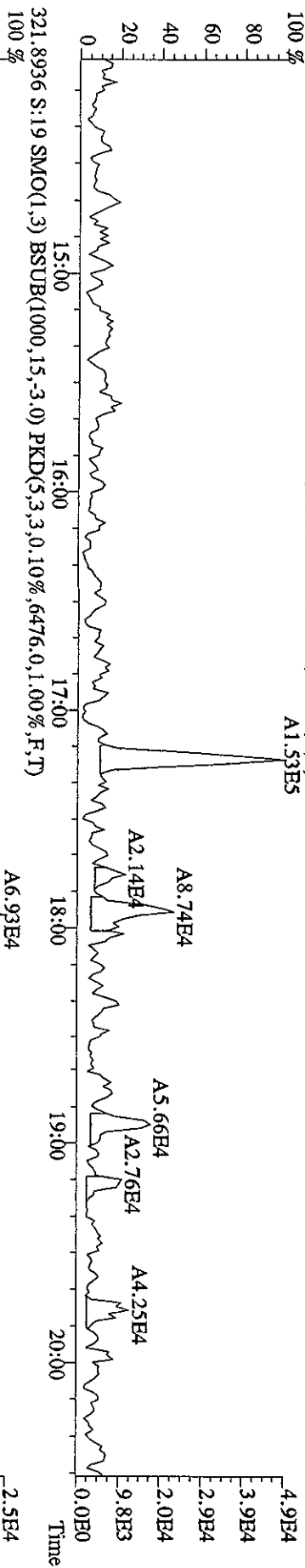
Amount: 12.84 of which 6.98 named and 5.86 unnamed  
 Conc: 25.69 of which 13.96 named and 11.73 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:23	2.17	n 1.46	102768 47263	2.2	n	n
	2	32:39	0.86	n 2.76	93322 108511	2.2	n	n
1,2,3,4,6,7,8-HpCDD	3	33:17	1.19	y 13.96	501519 422957	7.1	y	n
	4	34:47	0.98	y <del>7.51</del>	246310 251009	4.8	y	n

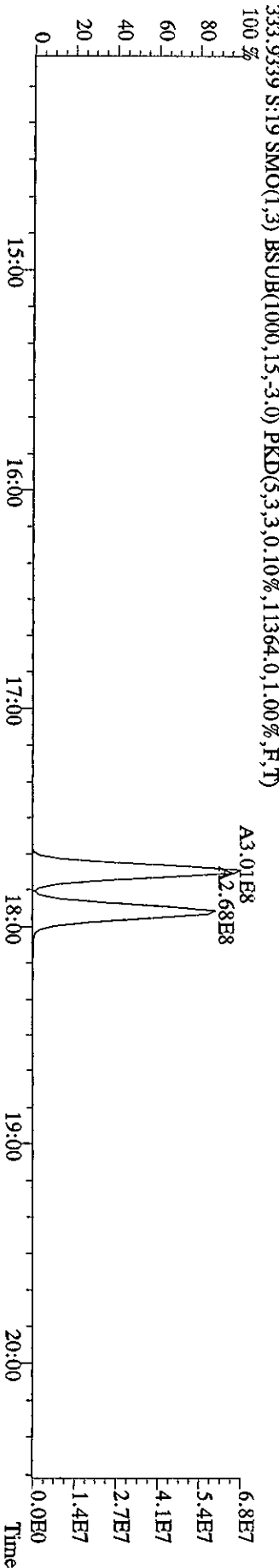
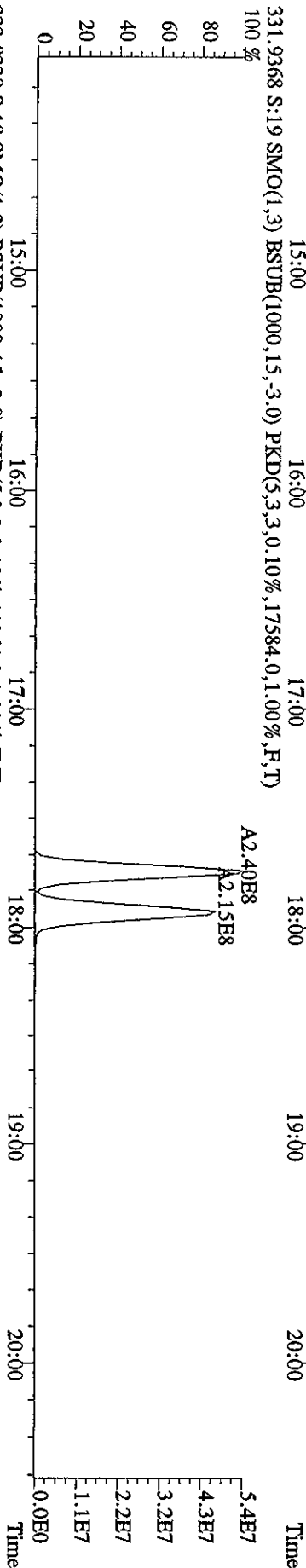
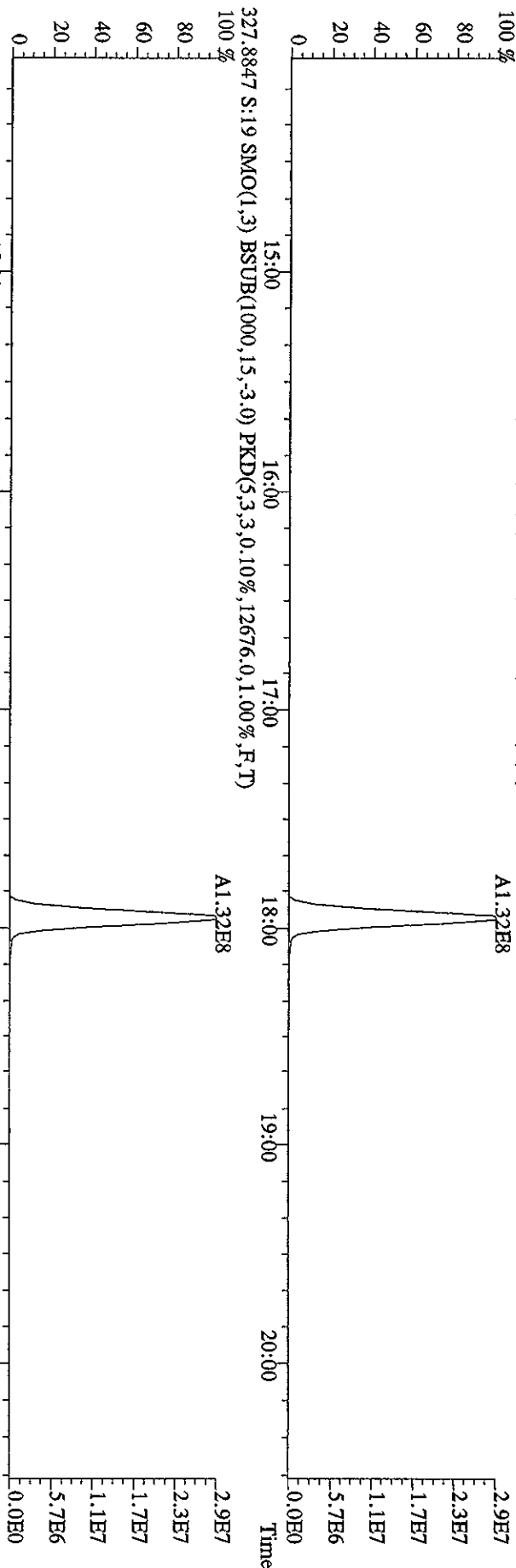
File: 27SE101D5 #1-382 Acq: 27-SEP-2010 22:21:52 GC EI+ Voltage: SIR 70SE  
 Sample#19 Text: L7DOH-1-AA :G01230491-1 Exp.: DIOXINRES  
 303.9016 S:19 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6100,0,1,00%,F,T)  
 100%



File: 27SE101D5 #1-382 Acq: 27-SEP-2010 22:21:52 GC HI+ Voltage: SIR 70SE  
 Sample#19 Text: L7DOH-1-AA : G01230491-1 Exp: DIOXINRES  
 319.8965 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5388,0,1.00%,F,T)  
 A1.53E5

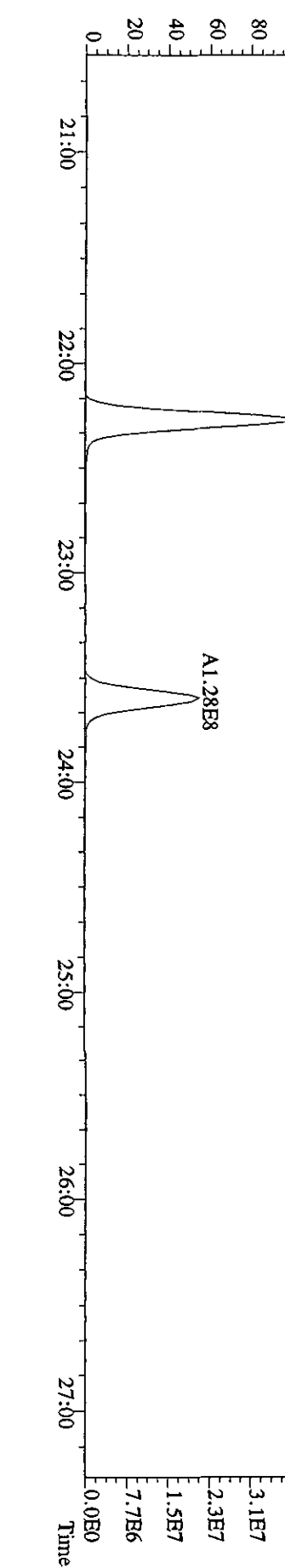
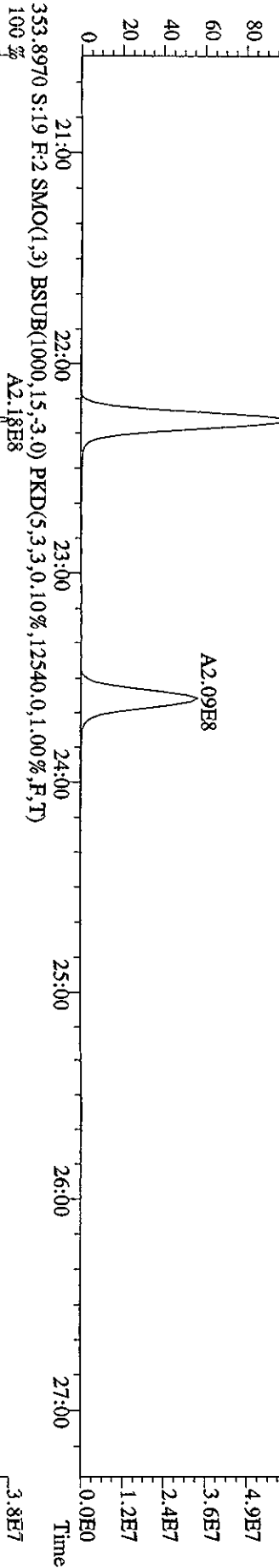
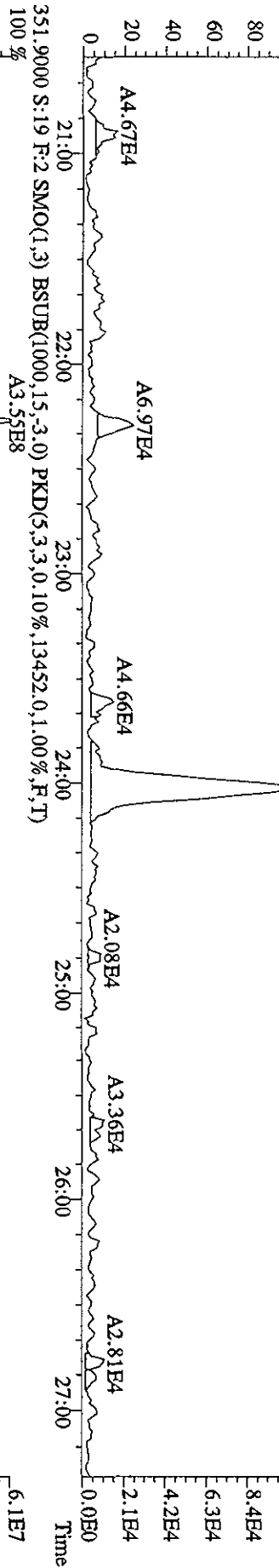
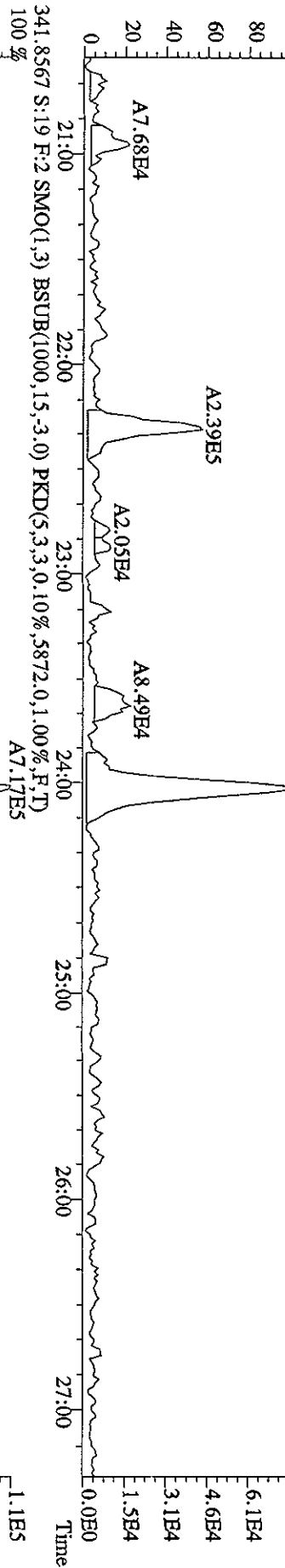


File: 27SEI01D5 #1-382 Acq: 27-SEP-2010 22:21:52 GC EI+ Voltage SIR 70SE  
 Sample#19 Text: L7DQH-1-AA :G01230491-1 Exp: DIOXINRES  
 327.8847 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12676.0,1.00%,F,T)

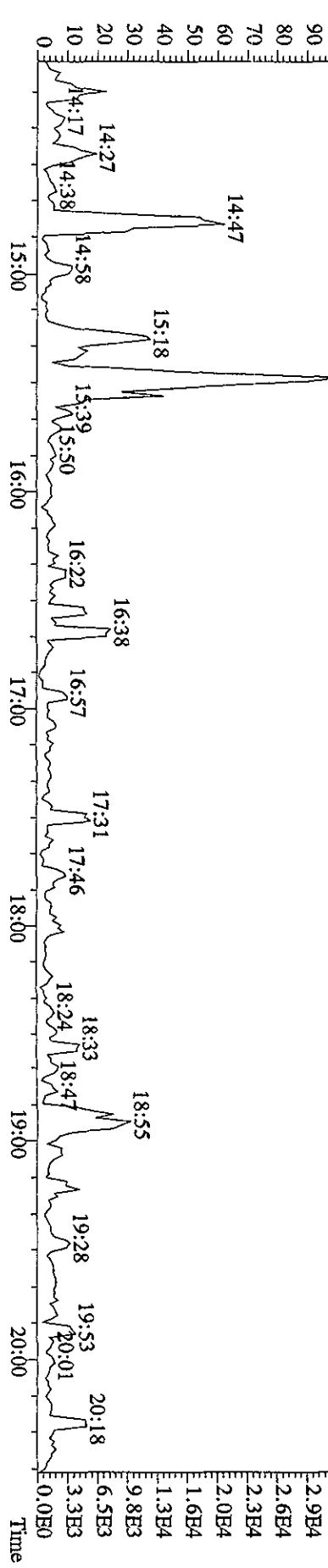
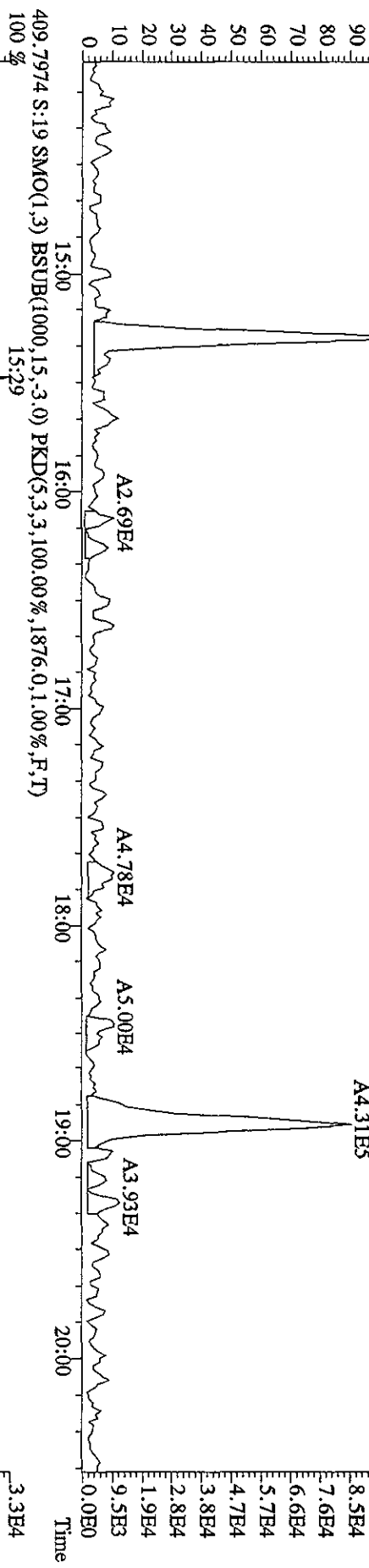
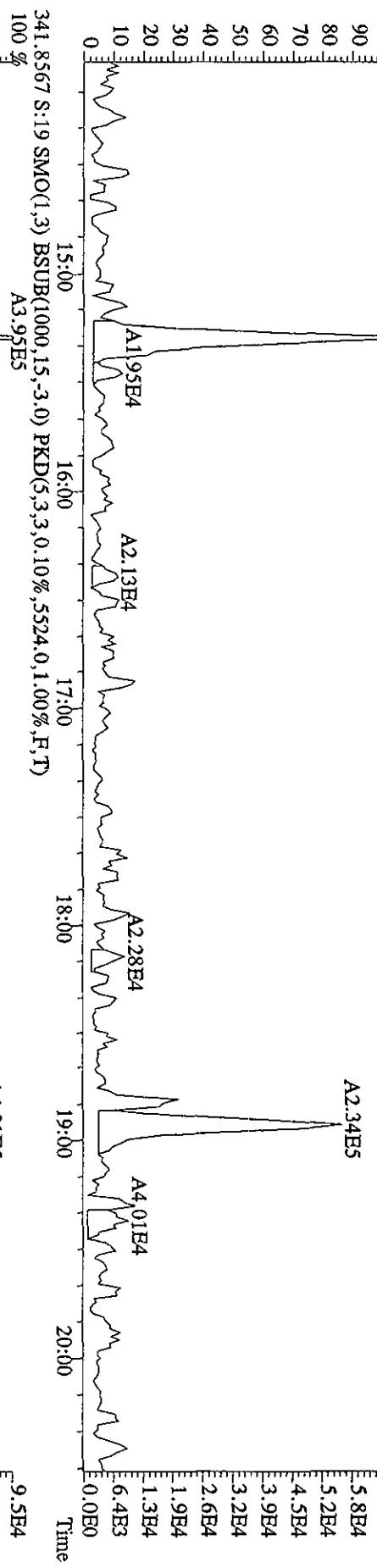




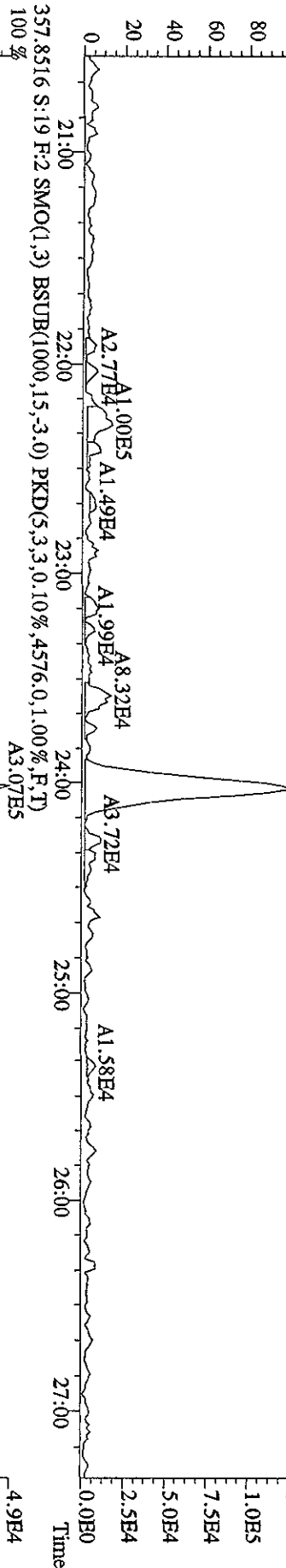
File:27SE101D5 #1-422 Acq:27-SEP-2010 22:21:52 GC EI+ Voltage STR 70SE  
 Sample#19 Text:L7DOH-1-AA :G01230491-1 Exp:DIOXINRES  
 339.8597 S:19 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5348,0,1,00%,F,T)  
 100%



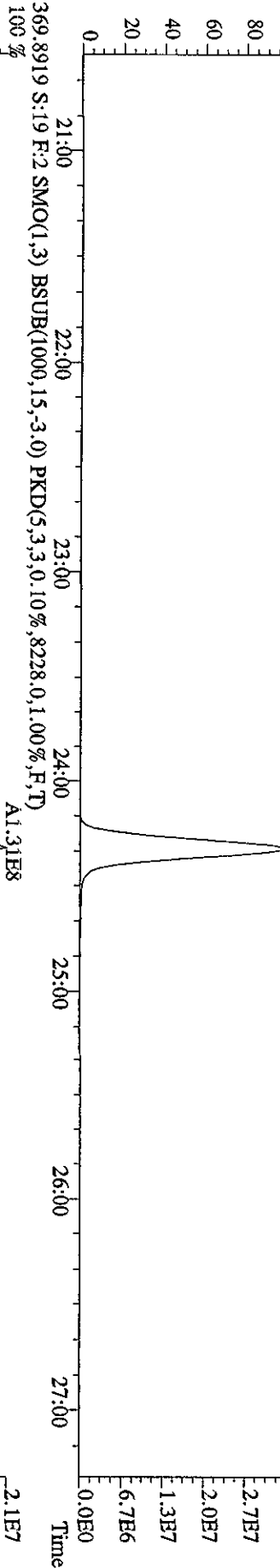
File: 27SE101D5 #1-382 Acq:27-SEP-2010 22:21:52 GC EI+ Voltage SIR 70SE  
 Sample#19 Text: L7DQH-1-AA :G01230491-1 Exp: DIOXINRES  
 339,8597 S:19 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5072,0,1,00%,F,T)  
 A2.84E5



357.8516 S:19 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4576,0,1.00%,F,T) A8.79E5



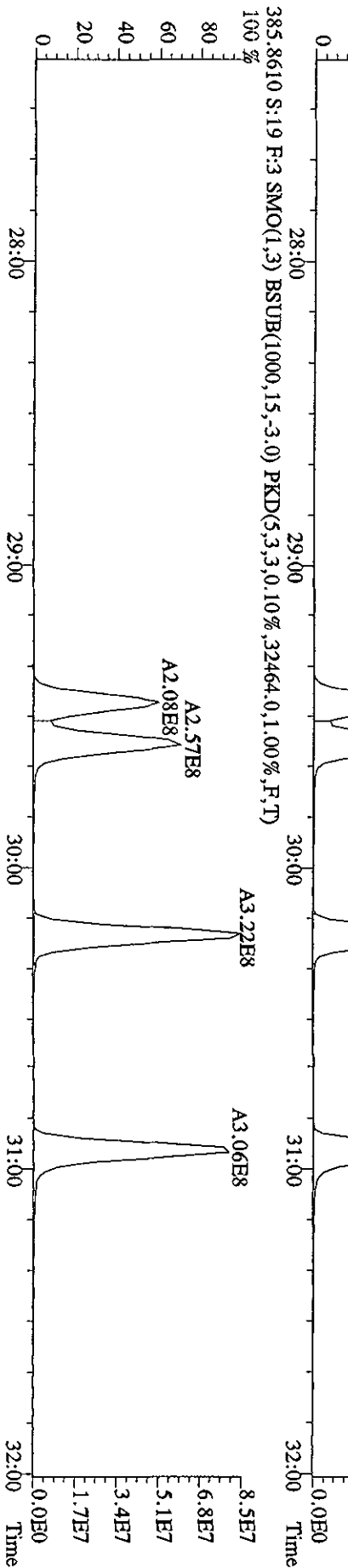
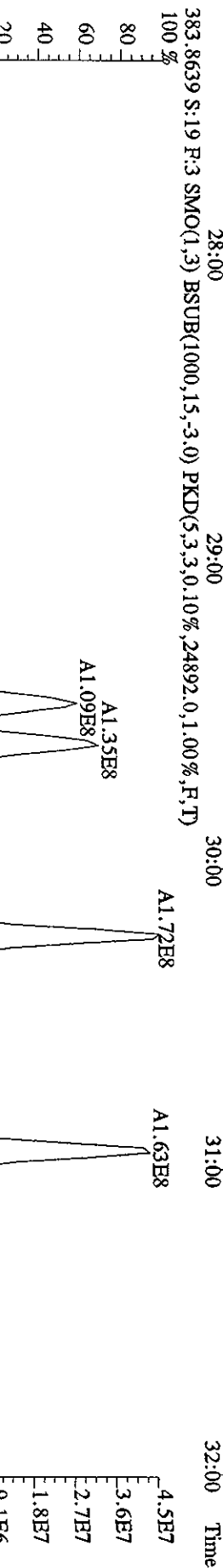
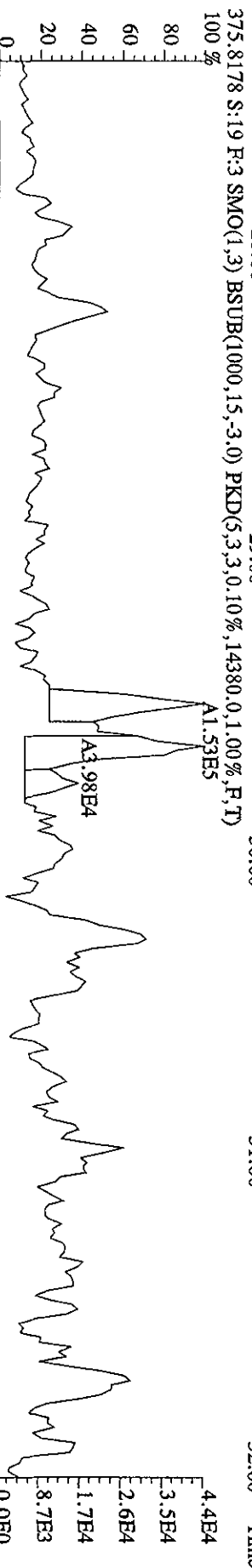
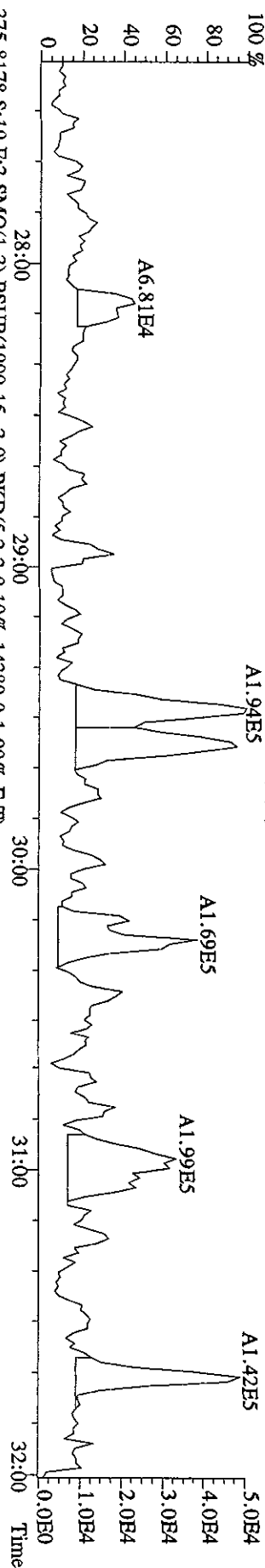
367.8949 S:19 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8020,0,1.00%,F,T) A2.12E8



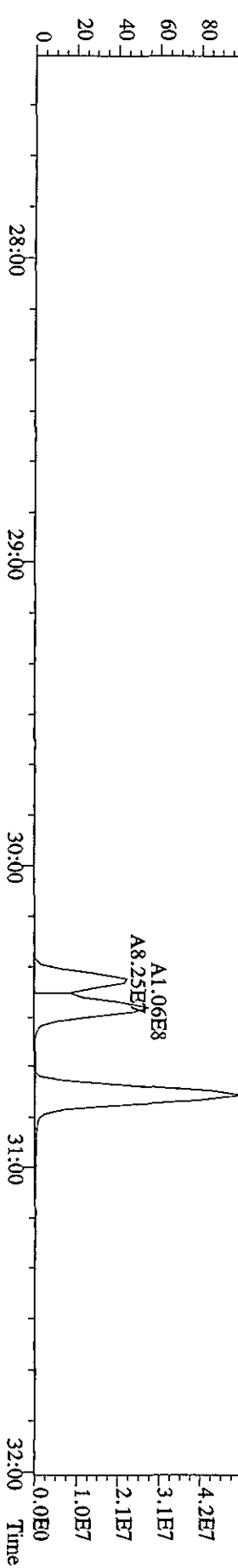
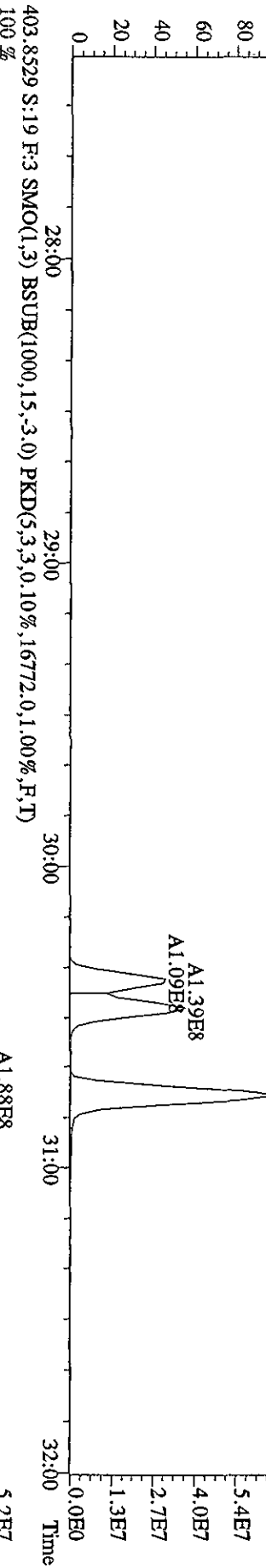
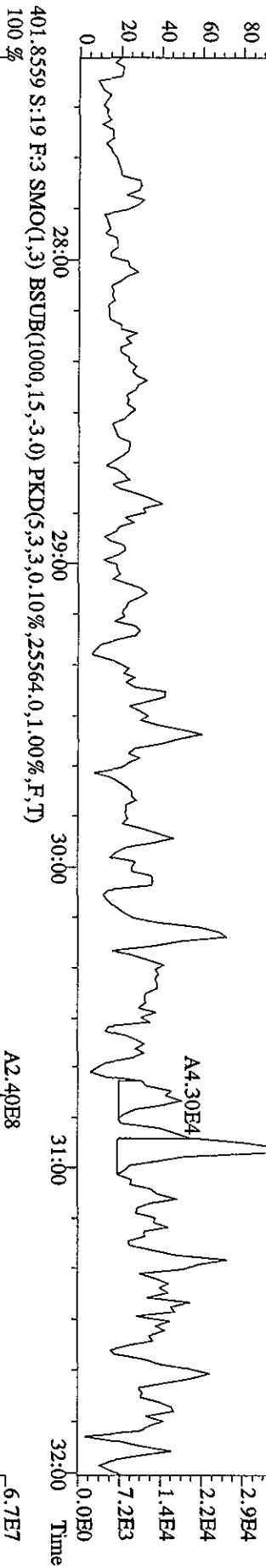
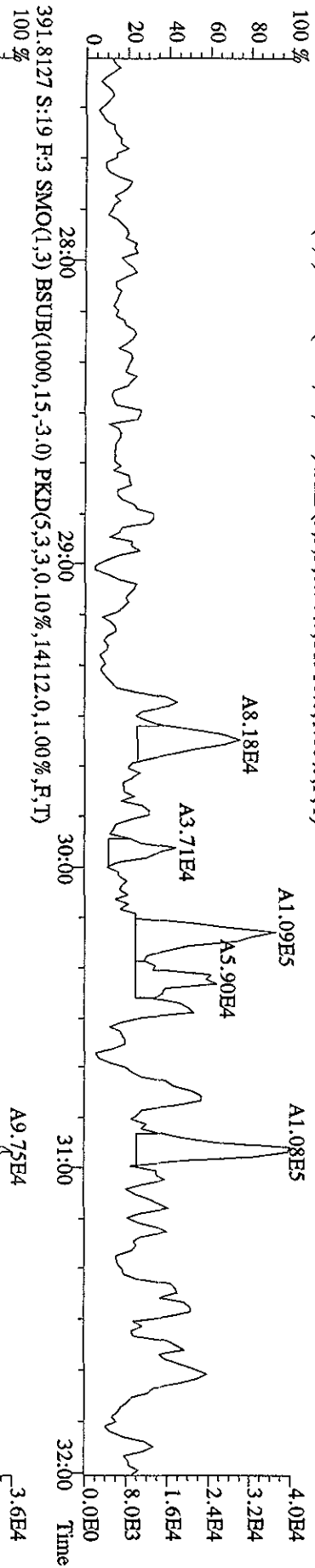
369.8919 S:19 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8228,0,1.00%,F,T) A1.31E8



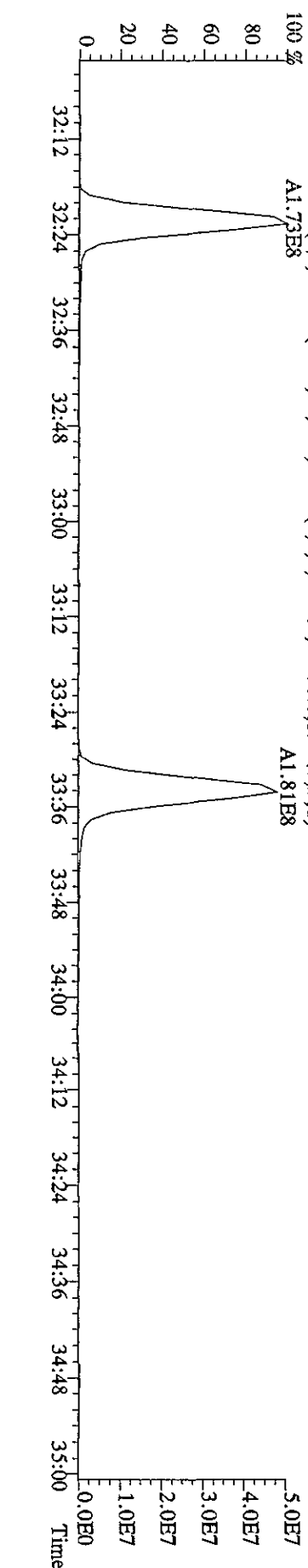
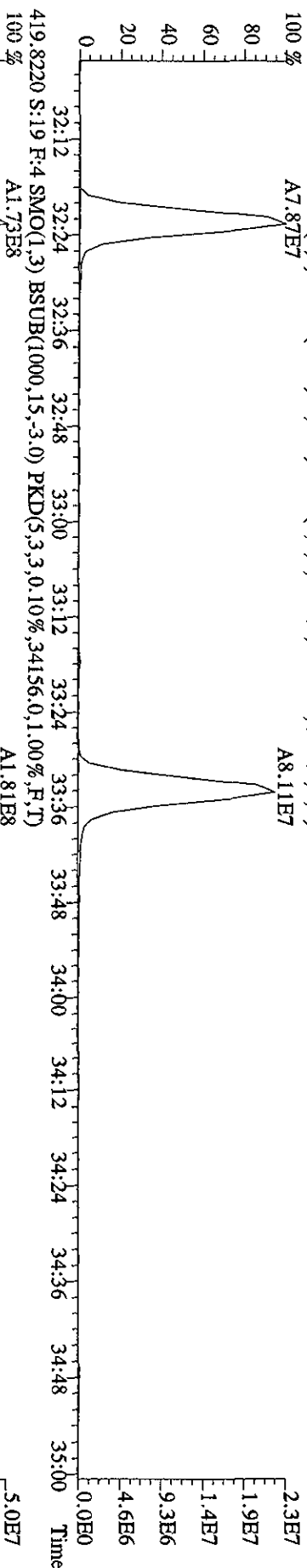
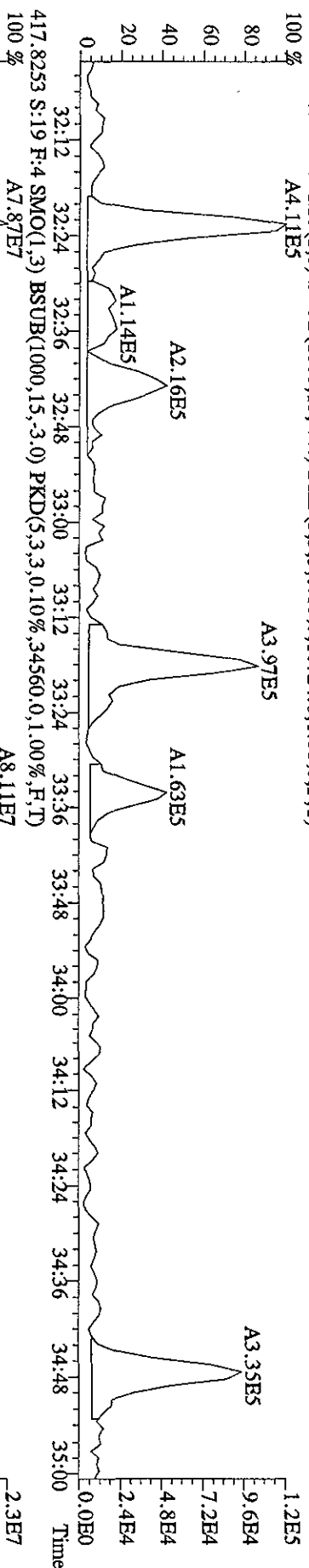
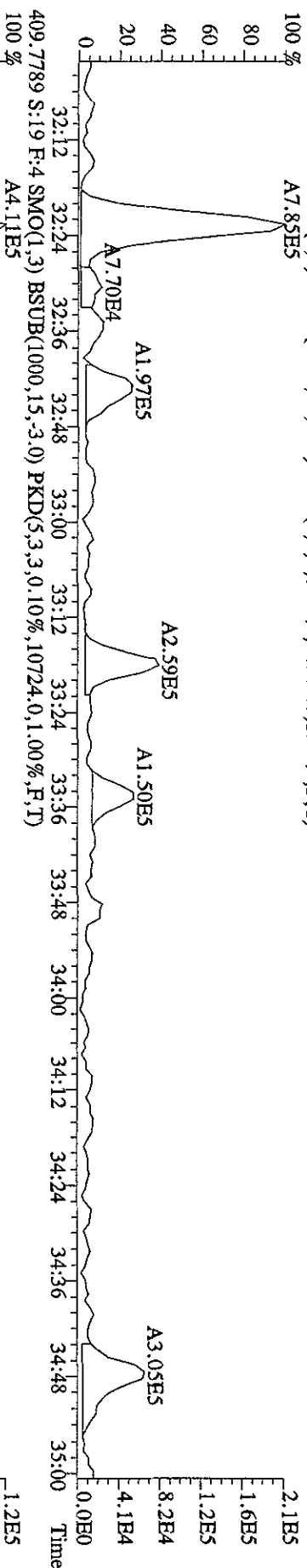
File: 27SE101D5 #1-301 Acq: 27-SEP-2010 22:21:52 GC EI+ Voltage SIR 70SE  
 Sample#19 Text: L7DOH-1-AA : G01230491-1 Exp: DIOXINRES  
 373.8208 S:19 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11628,0,1.00%,F,T)



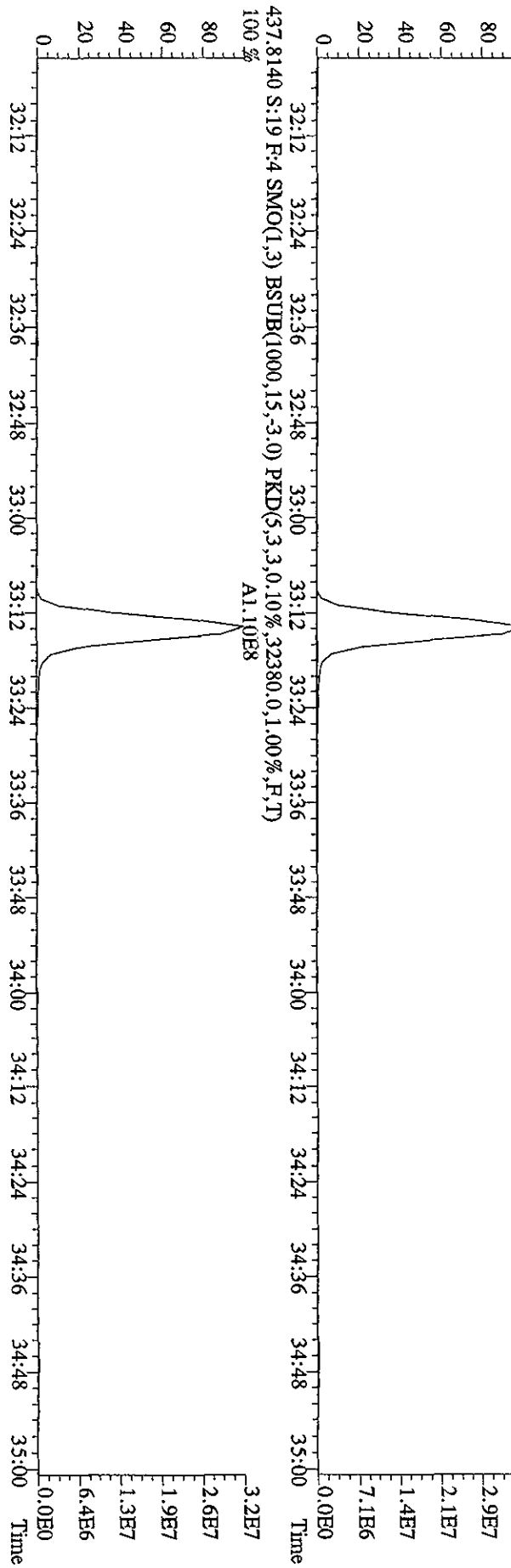
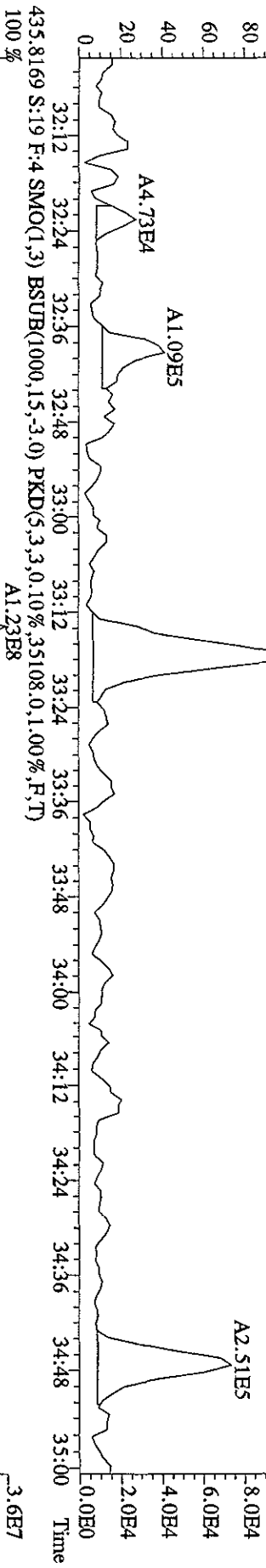
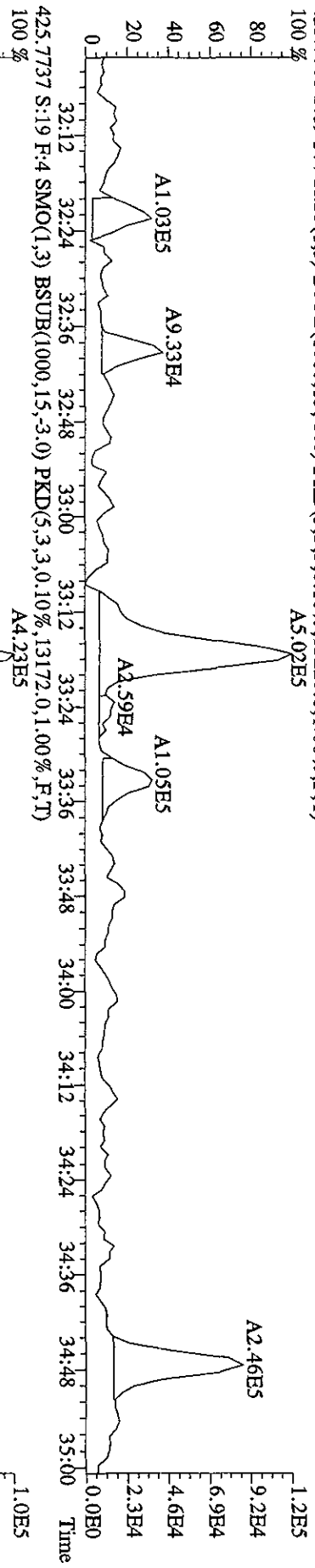
File: 27SE101D5 #1-301 Acq: 27-SEP-2010 22:21:52 GC EI+ Voltage SIR 70SE  
 Sample#19 Text: L7DOH-1-AA : G01230491-1 Exp: DIOXINES  
 389.8157 S:19 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,11916,0,1,00%,F,T)



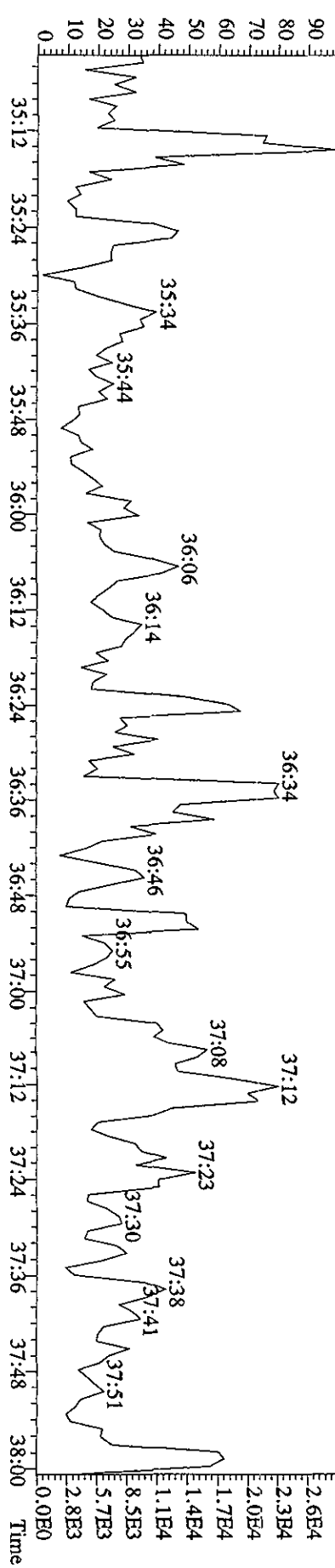
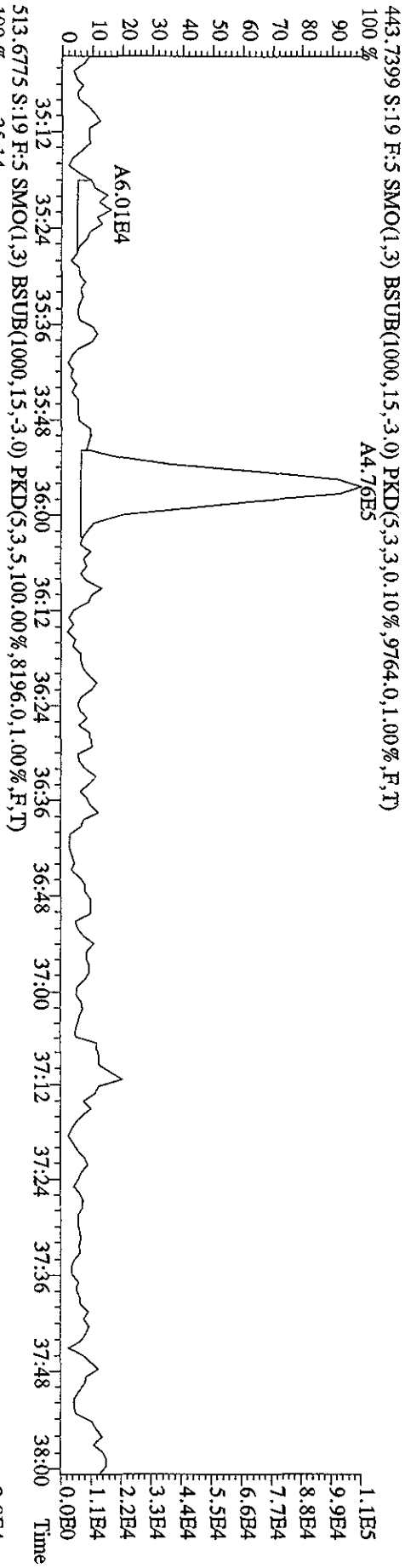
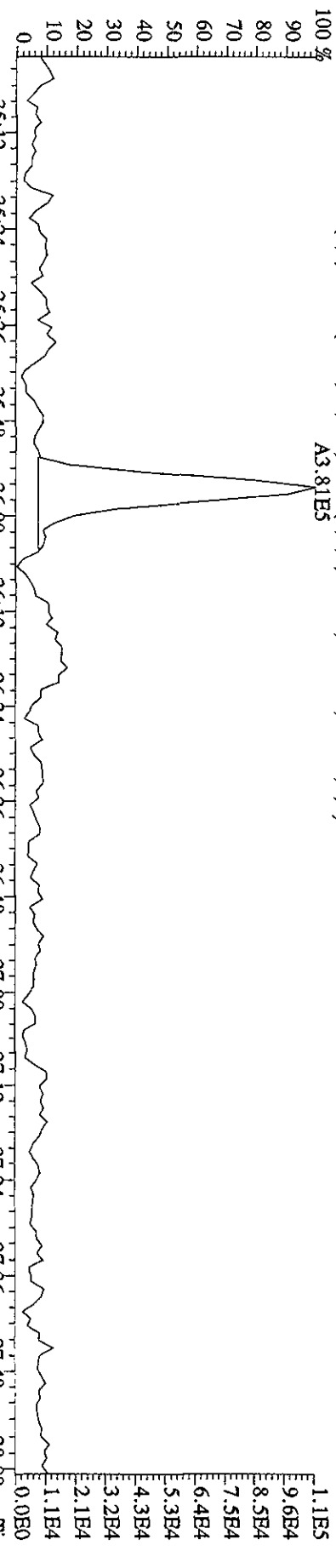
File:27SEI01D5 #1-203 Acq:27-SEP-2010 22:21:52 GC BI+ Voltage SIR 70SE  
 Sample#19 Text:L7DQH-1-AA :G01230491-1 Exp:DIOXINRES  
 407.7818 S:19 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,14140,0,1,00%,F,T)



File: 27SBI01D5 #1-203 Acq: 27-SEP-2010 22:21:52 GC EI+ Voltage SIR 70SE  
 Sample#19 Text: L7DOH-1-AA :G01230491-1 Exp: DIOXINRES  
 423.7766 S:19 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15228,0.1,00%,F,T)

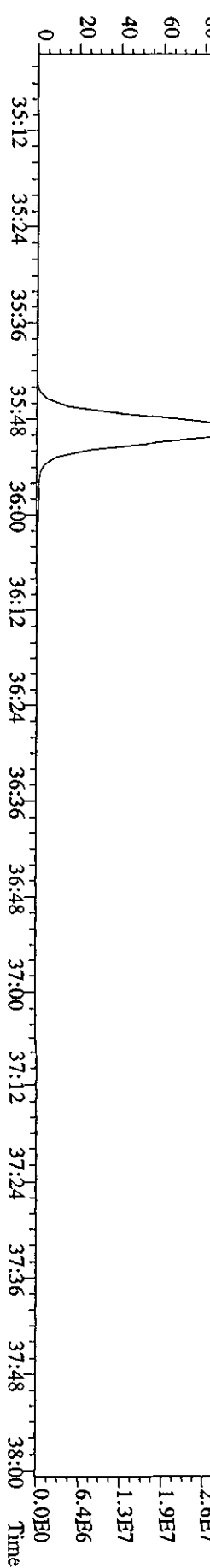
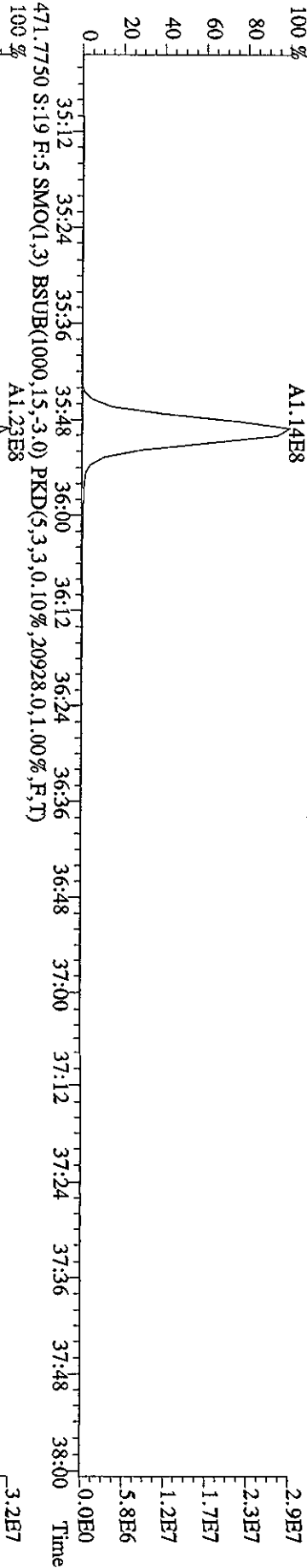
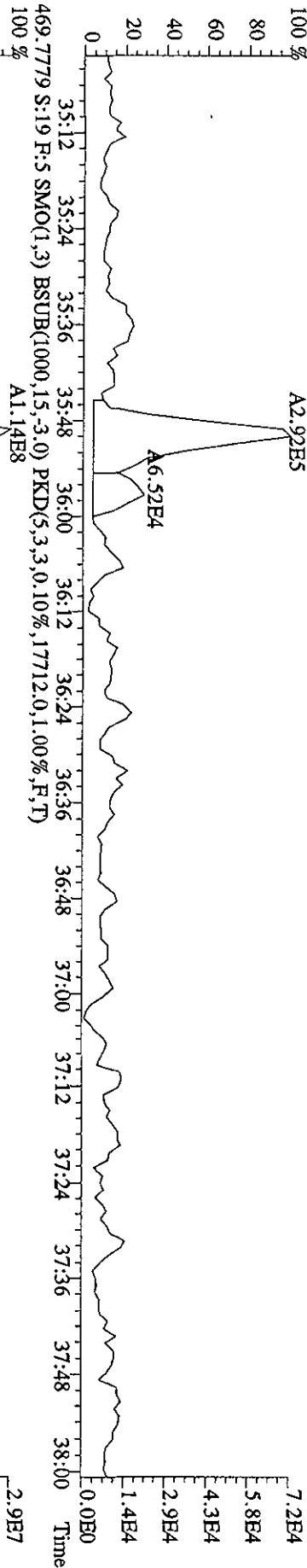
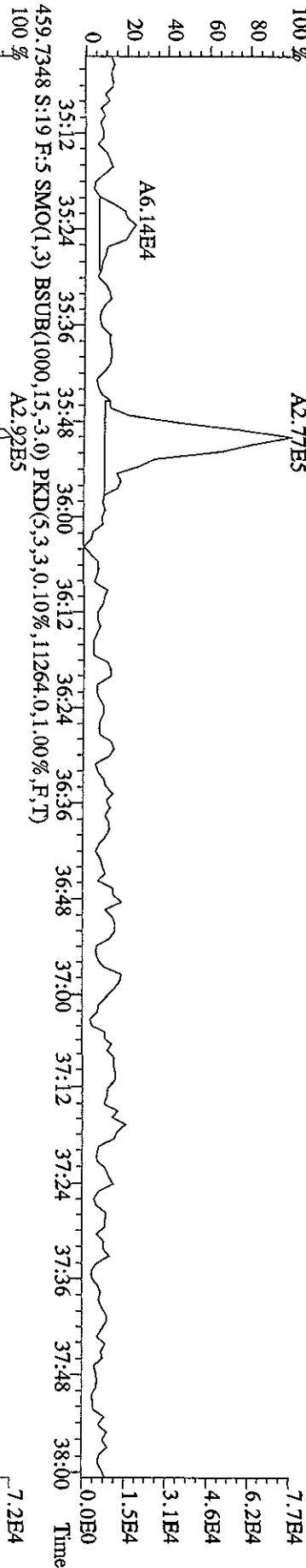


File: 27SE101D5 #1-196 Acq: 27-SEP-2010 22:21:52 GC EI+ Voltage SIR 70SE  
 Sample#19 Text: L7DQH-1-AA : G01230491-1 Exp: DIOXINRES  
 441.7428 S:19 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,10112.0,1.00%,F,T)

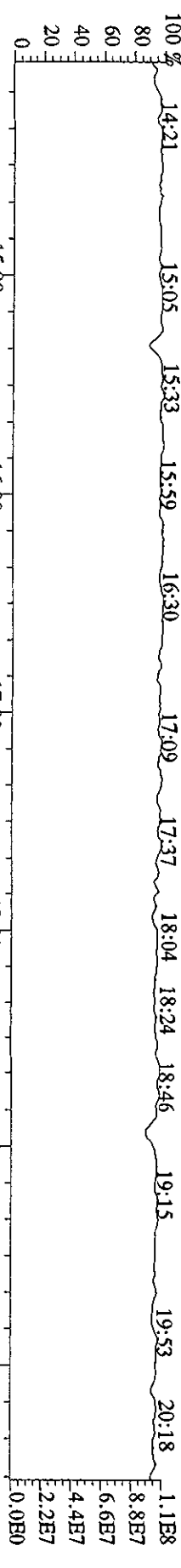




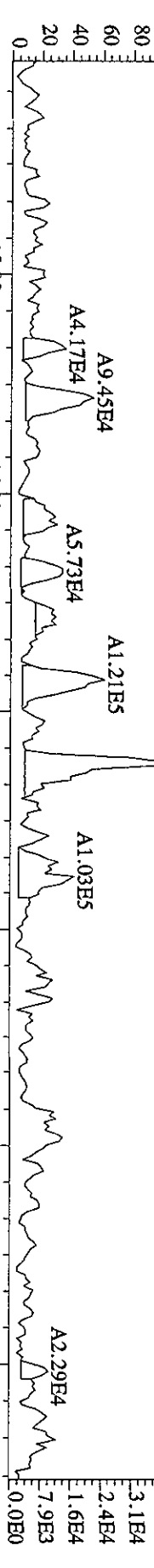
File: 27SEI01D5 #1-196 Acq: 27-SEP-2010 22:21:52 GC EI+ Voltage SIR 70SE  
 Sample#19 Text: L7DOH-1-AA :G0I230491-1 Exp: DIOXINRES  
 457.7377 S:19 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9772.0,1.00%,F,T)  
 100%



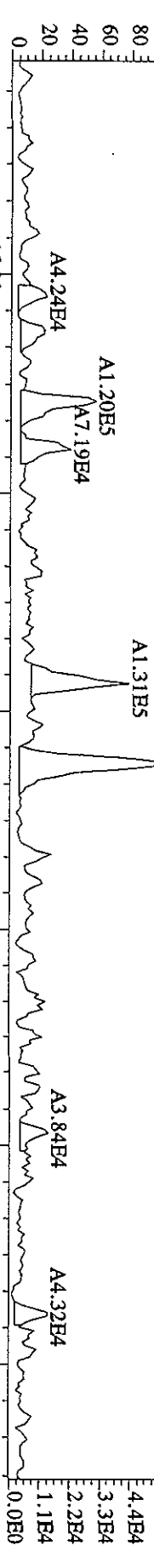
File: 27SEI01D5 #1-382 Acq: 27-SEP-2010 22:21:52 GC EI+ Voltage SIR 70SE  
 Sample#19 Text: L7DOH-1-AA : G0I230491-1 Exp: DIOXINRES  
 292.9825 S:19 SMO(1,3) PKD(5,3,5,100,00%,0,0,1,00%,F,T)  
 14:21 15:05 15:33 15:59 16:30 17:09 17:37 18:04 18:24 18:46 19:15 19:53 20:18



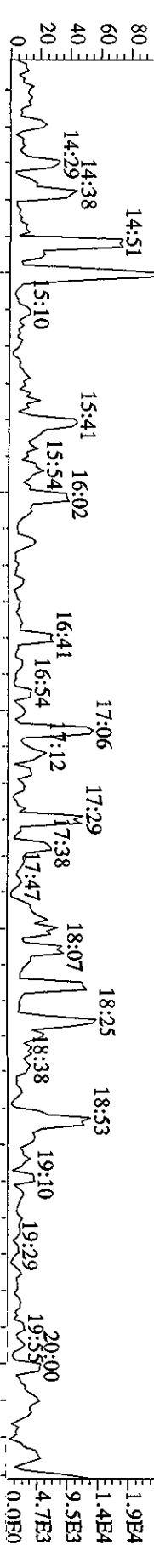
303.9016 S:19 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6100,0,1,00%,F,T)  
 14:21 15:05 15:33 15:59 16:30 17:09 17:37 18:04 18:24 18:46 19:15 19:53 20:18



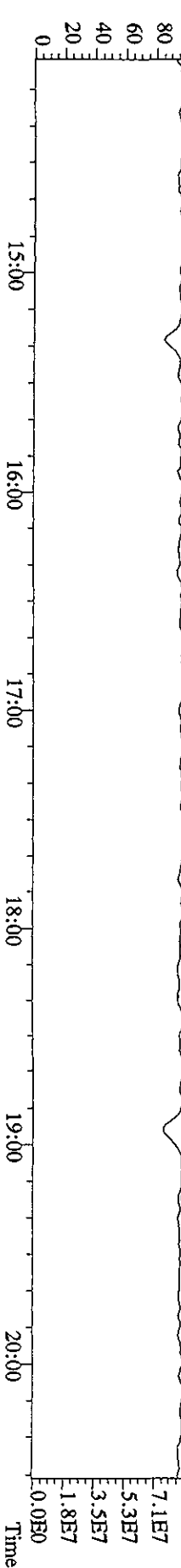
305.8987 S:19 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6700,0,1,00%,F,T)  
 14:21 15:05 15:33 15:59 16:30 17:09 17:37 18:04 18:24 18:46 19:15 19:53 20:18



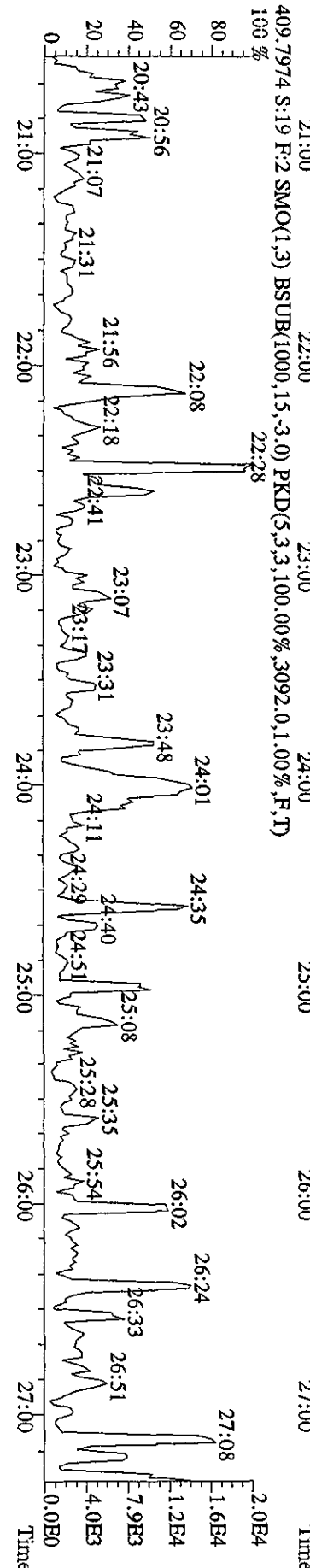
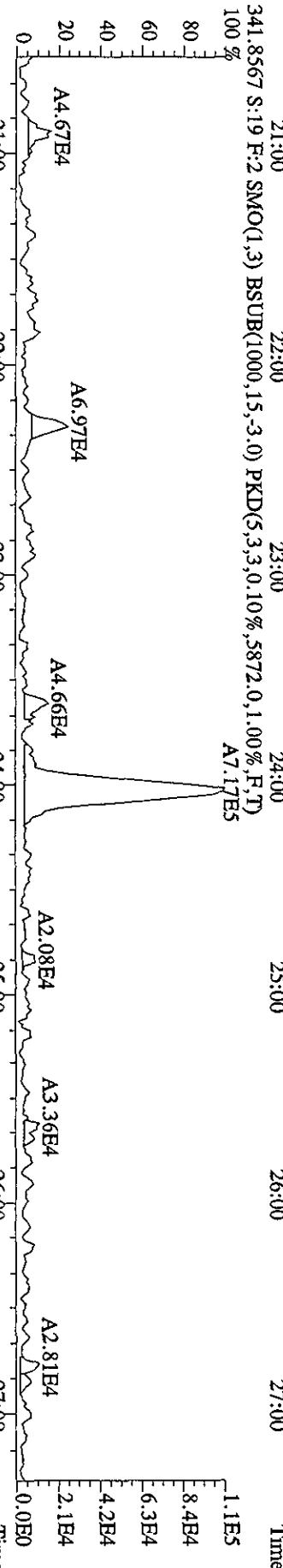
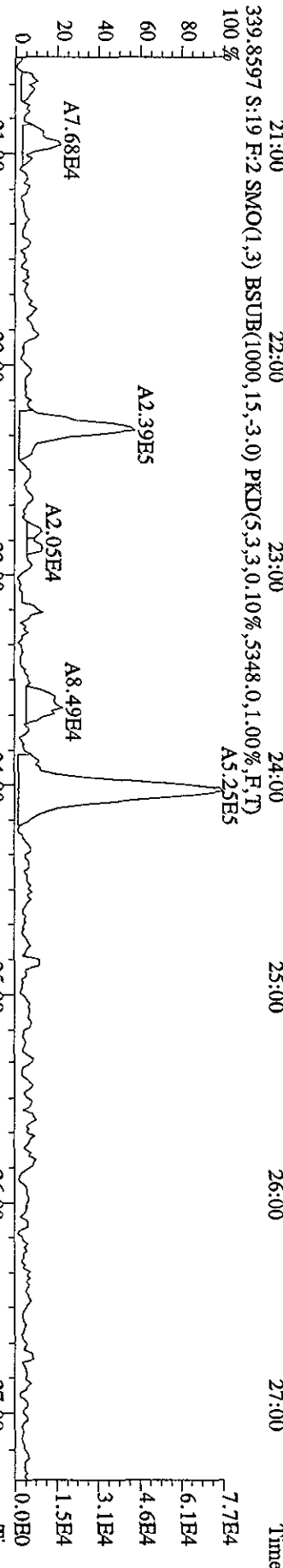
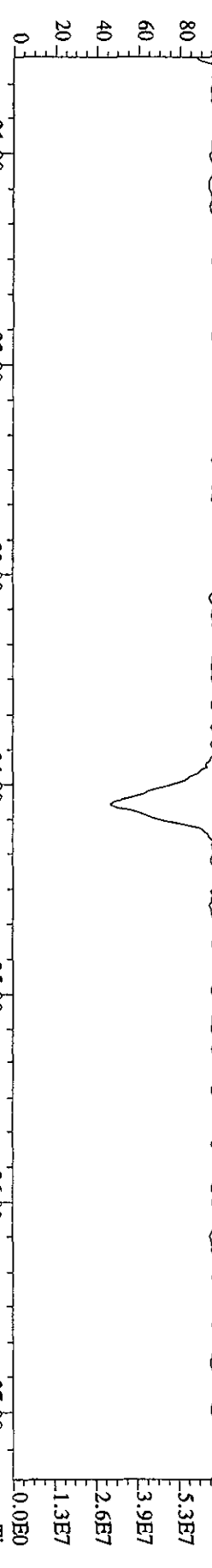
375.8364 S:19 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,2340,0,1,00%,F,T)  
 14:21 15:05 15:33 15:59 16:30 17:09 17:37 18:04 18:24 18:46 19:15 19:53 20:18



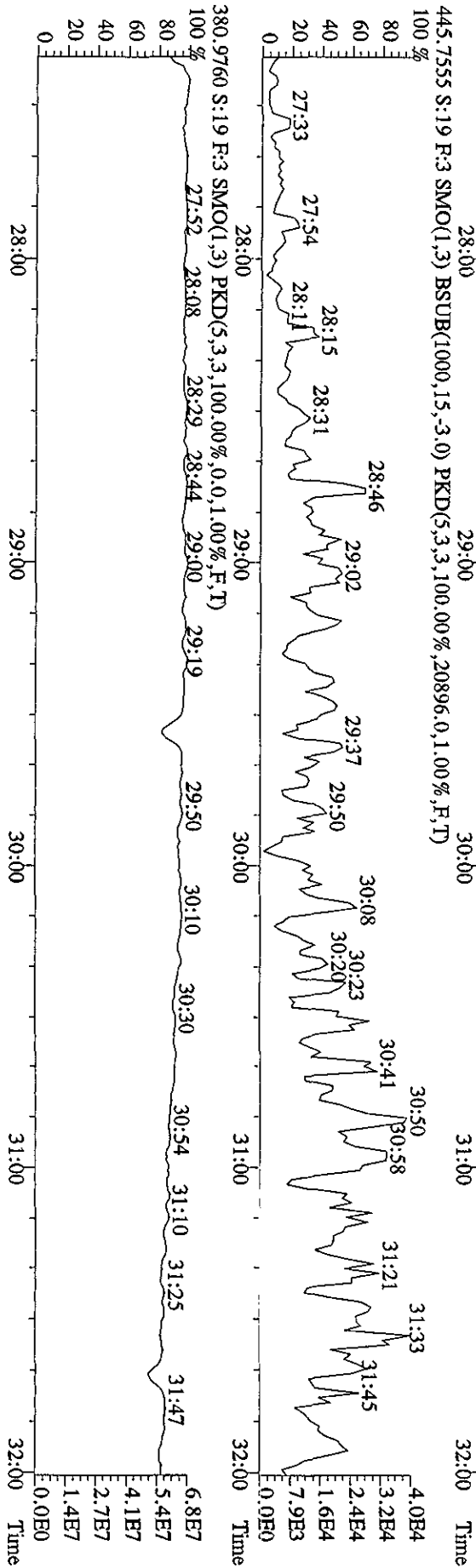
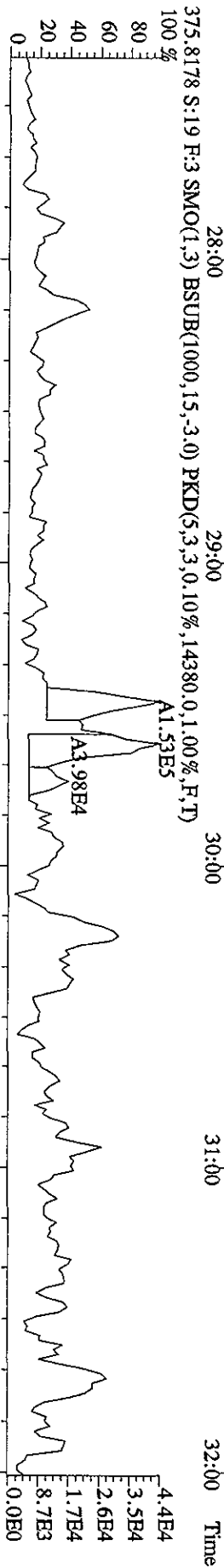
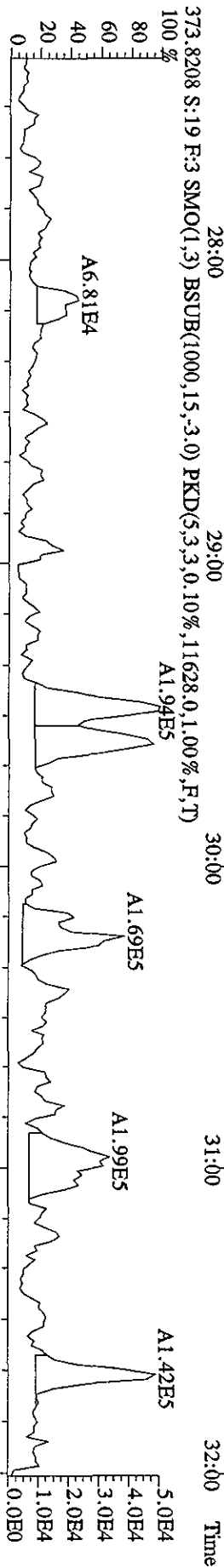
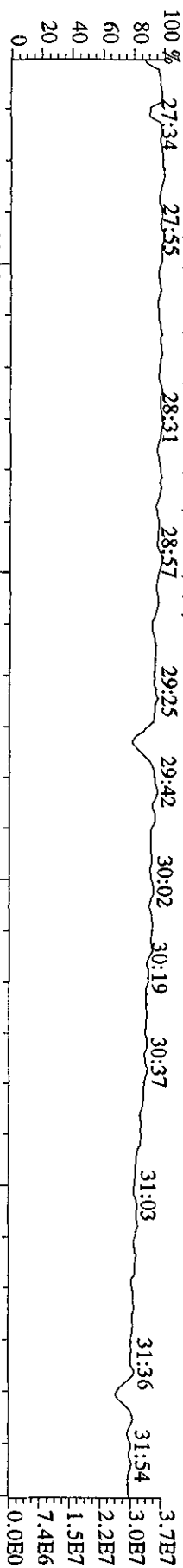
330.9792 S:19 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)  
 14:21 15:05 15:33 15:59 16:30 17:09 17:37 18:04 18:24 18:46 19:15 19:53 20:18



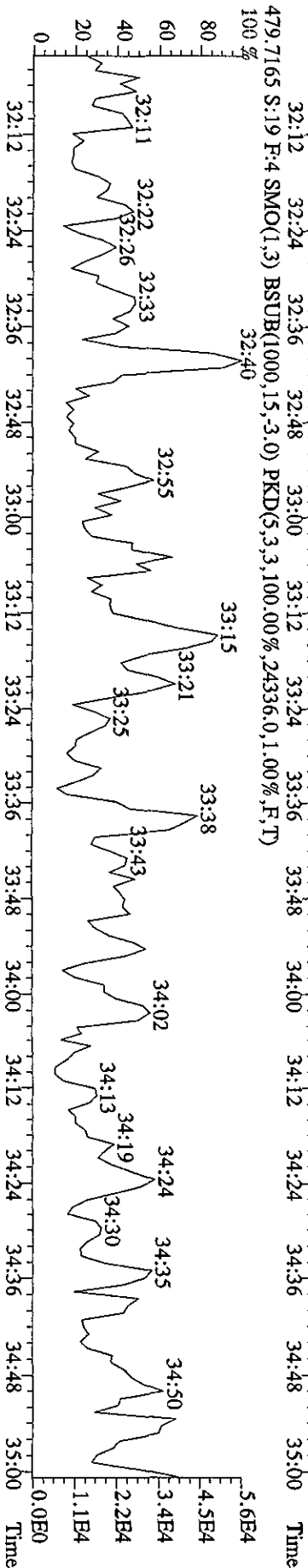
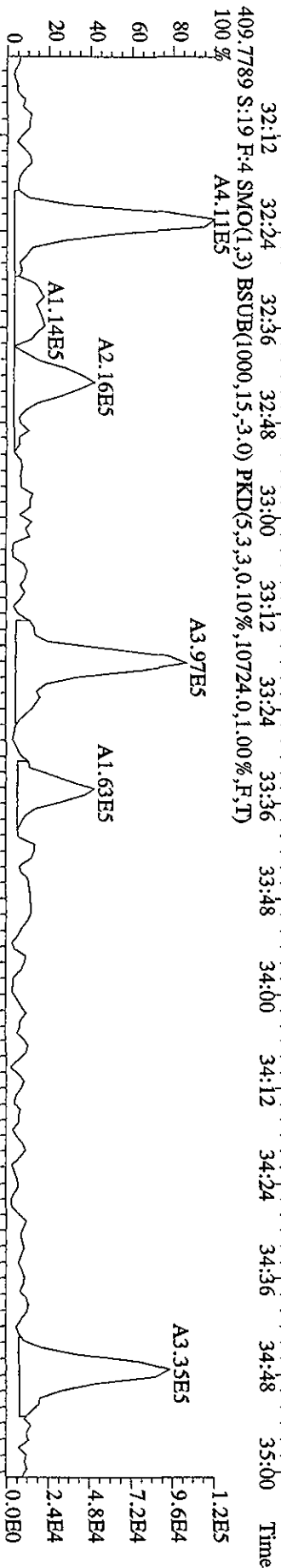
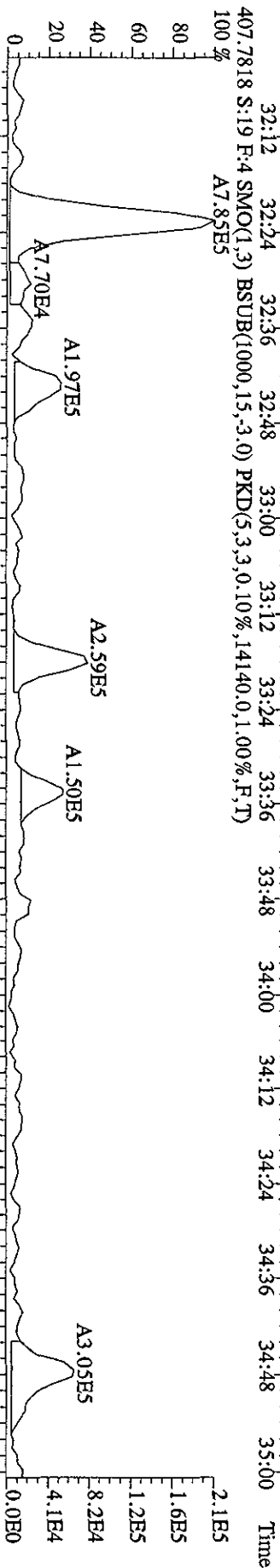
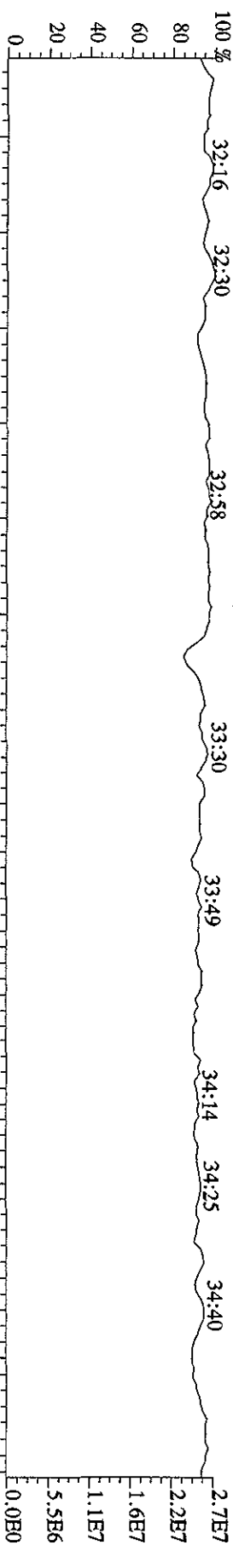
342.9792 S:19 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
409.7974 S:19 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,3092.0,1.00%,F,T)



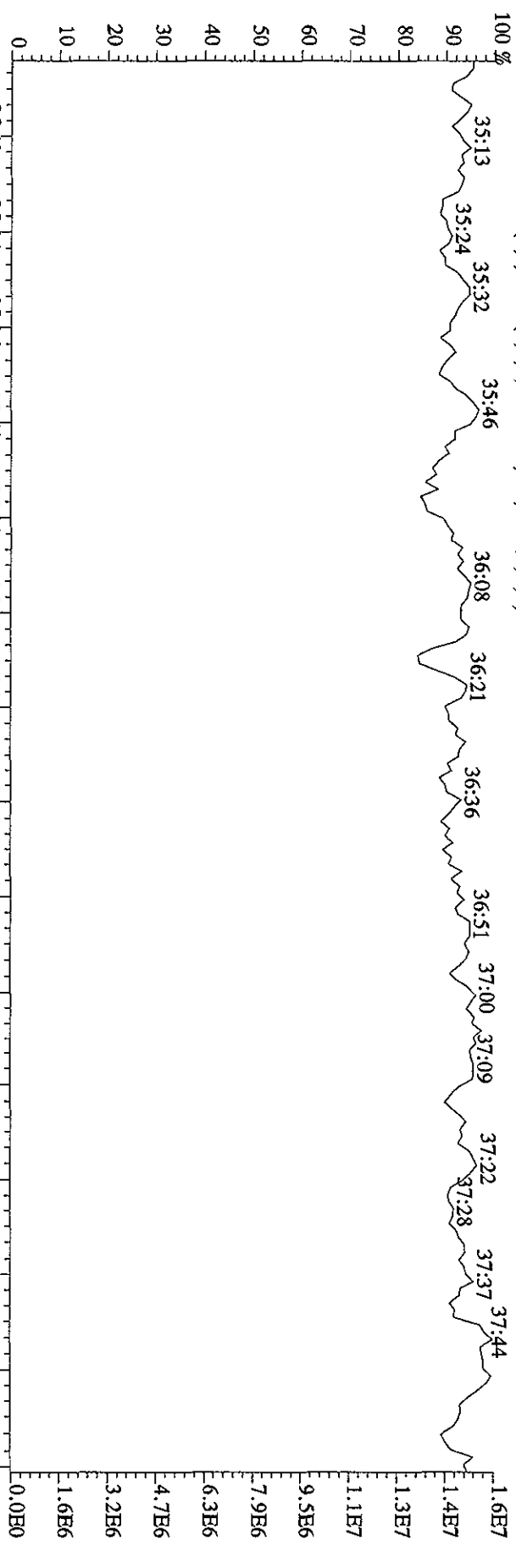
File: 27SE101D5 #1-301 Acq: 27-SEP-2010 22:21:52 GC EI+ Voltage SIR 70SE  
 Sample#19 Text: L7DOH-1-AA : G01230491-1 Exp: DIOXINRES



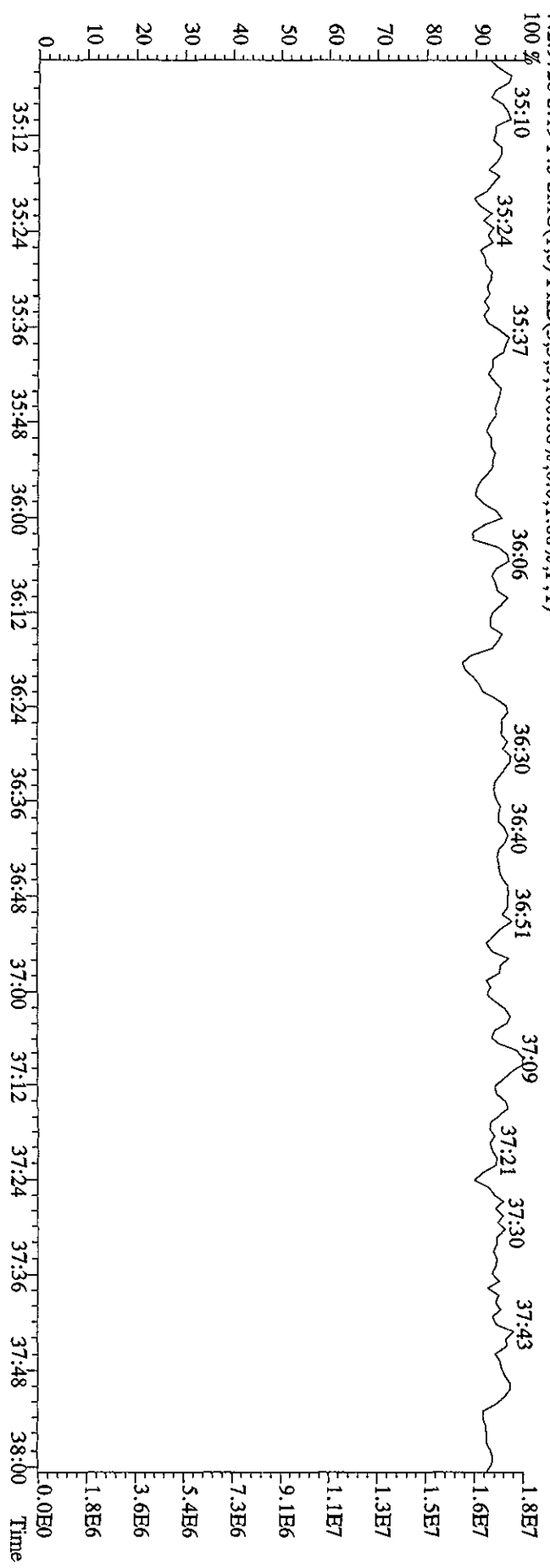
File: 27SEI01D5 #1-203 Acq: 27-SEP-2010 22:21:52 GC EI+ Voltage SIR 70SE  
 Sample#19 Text: L7DQH-1-AA : G0I230491-1 Exp: DIOXINRES



File: 27SE101D5 #1-196 Acq: 27-SEP-2010 22:21:52 GC EI+ Voltage SIR 70SE  
 Sample#19 Text: L7DOH-1-AA : G0I230491-1 Exp: DIOXINRES  
 454.9728 S: 19 F: 5 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)



442.9728 S: 19 F: 5 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)



Run text: L7DQM-1-AA Sample text: L7DQM-1-AA :G0I230491-3  
 Run #10 Filename: 27SE101D5 S: 20 I: 1 Results: 27SE101D5TO9OS  
 Acquired: 27-SEP-10 23:04:49 Processed: 28-SEP-10 09:22:54  
 Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5  
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 Sample

05  
09-29-10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	529823000	0.82 y	17:45	-	303.247	-	-	n
13C-2,3,7,8-TCDF	835777000	0.81 y	17:14	1.56	4036.840	1.545	100.9	n
2,3,7,8-TCDF	31357700	0.74 y	17:16	0.98	<del>152.555</del>	0.832	-	n
Total TCDF	130368199	0.82 y	14:49	0.98	634.240	0.832	-	n
13C-2,3,7,8-TCDD	484359000	0.82 y	17:57	0.92	3970.900	2.396	99.3	n
2,3,7,8-TCDD	330300	0.60 n	17:58	1.03	2.644	0.905	-	n
Total TCDD	6227800	0.36 n	15:18	1.03	<del>49.853</del> 47.243	0.905	-	n
37Cl-2,3,7,8-TCDD	262532000	1.00 y	17:58	1.23	1768.025	1.363	110.5	n
13C-1,2,3,7,8-PeCDF	579959000	1.65 y	22:16	1.05	4159.879	1.584	104.0	n
1,2,3,7,8-PeCDF	17537390	1.68 y	22:18	1.09	110.749	1.765	-	y
2,3,4,7,8-PeCDF	6130630	1.61 y	23:38	1.02	41.549	1.894	-	n
Total F2 PeCDF	66574407	1.79 n	20:44	1.05	432.821	1.827	-	y
Total F1 PeCDF	1747344	1.02 n	15:08	1.05	<del>11.424</del> 4.03	0.778	-	n
13C-1,2,3,7,8-PeCDD	319413000	1.64 y	24:18	0.56	4299.545	1.283	107.5	n
1,2,3,7,8-PeCDD	620378	1.39 y	24:20	1.07	7.258	1.909	-	n
Total PeCDD	4038400	1.71 y	21:07	1.07	<del>47.249</del> 41.02 30.95	1.909	-	n
13C-1,2,3,7,8,9-HxCDD	490700000	1.28 y	30:46	-	299.006	20.88	9/30/10	n
13C-1,2,3,4,7,8-HxCDF	388762000	0.52 y	29:27	0.99	3198.322	4.038	80.0	n
1,2,3,4,7,8-HxCDF	22543200	1.39 y	29:28	1.26	183.948	2.210	-	y
1,2,3,6,7,8-HxCDF	21745580	1.30 y	29:36	1.53	146.129	1.820	-	y
2,3,4,6,7,8-HxCDF	5007740	1.41 y	30:14	1.41	36.612	1.980	-	y
1,2,3,7,8,9-HxCDF	3869580	1.15 y	30:57	1.40	28.518	1.996	-	n
Total HxCDF	111572112	1.26 y	27:50	1.40	<del>824.795</del> 822.595	1.992	-	y
13C-1,2,3,6,7,8-HxCDD	296189000	1.30 y	30:28	0.74	3264.987	1.120	81.6	n
1,2,3,4,7,8-HxCDD	395218	1.17 y	30:23	1.12	4.766	1.705	-	n
1,2,3,6,7,8-HxCDD	913008	1.38 y	30:29	1.14	10.804	1.673	-	n
1,2,3,7,8,9-HxCDD	1261463	1.42 y	30:46	1.35	12.584	1.410	-	n
Total HxCDD	6091082	1.23 y	28:50	1.20	<del>67.622</del> 64.67	1.584	-	n
13C-1,2,3,4,6,7,8-HpCDF	341211000	0.46 y	32:22	0.96	2909.118	5.894	72.7	n
1,2,3,4,6,7,8-HpCDF	80295400	1.09 y	32:23	1.41	668.463	2.414	-	n
1,2,3,4,7,8,9-HpCDF	25950500	1.04 y	33:34	1.24	246.174	2.751	-	n
Total HpCDF	149388319	1.09 y	32:23	1.32	<del>1297.216</del> 1289.096	2.572	-	n
13C-1,2,3,4,6,7,8-HpCDD	289291000	1.09 y	33:14	0.71	3311.140	4.115	82.8	n
1,2,3,4,6,7,8-HpCDD	3988290	1.14 y	33:15	1.13	48.615	1.398	-	n
Total HpCDD	6596975	4.73 n	32:22	1.13	<del>80.413</del> 73.58	1.398	-	n
13C-OCDD	272778000	0.90 y	35:49	0.35	6304.730	4.390	78.8	n
OCDF	99957700	0.90 y	35:56	2.12	1384.430	1.944	-	n

OCDD 2202710 1.00 y 35:49 1.37 47.116 J 2.541 - n



Run Text: L7DQM-1-AA

Sample text: L7DQM-1-AA :G0I230491-3

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:15  
 Run: 10 File: 27SE101D5 S:20 Acq:27-SEP-10 23:04:49  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 317.12 of which 76.28 named and 240.84 unnamed  
 Conc: 634.24 of which 152.56 named and 481.69 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:49	0.82 y	4.32	399470 488173	13.5 19.4	y	n
	2	15:09	0.75 y	2.11	185033 247680	7.4 6.2	y	n
	3	15:19	0.75 y	2.04	179385 240391	4.9 10.1	y	n
	4	15:35	0.77 y	137.76	12349400 15966600	434.3 652.7	y	n
	5	15:49	0.84 y	22.50	2116210 2508580	56.4 86.3	y	n
	6	16:07	0.95 n	13.82	1522190 1605000	30.7 44.9	y	n
	7	16:21	0.81 y	64.49	5920280 7336340	193.7 282.8	y	n
	8	16:36	1.04 n	66.10	8012090 7676320	182.3 257.5	y	n
	9	16:53	0.80 y	112.78	10311600 12870200	334.7 501.7	y	n
	10	17:07	0.80 y	6.56	598121 749382	14.0 23.4	y	n
2,3,7,8-TCDF	11	17:16	0.74 y	152.56	13341800 18015900	367.5 605.4	y	n
	12	17:41	0.78 y	23.15	2091240 2667780	64.0 94.6	y	n
	13	17:55	0.93 n	9.30	1001330 1080380	19.1 30.6	y	n
	14	18:09	0.68 y	6.48	541194 790077	16.6 25.6	y	n
	15	19:06	0.71 y	10.28	879294 1233860	27.1 38.4	y	n

Run Text: L7DQM-1-AA

Sample text: L7DQM-1-AA :G0I230491-3

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:14  
 Run: 10 File: 27SE101D5 S:20 Acq:27-SEP-10 23:04:49  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 24.93 of which 1.32 named and 23.60 unnamed  
 Conc: 49.85 of which 2.64 named and 47.21 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:18	0.36	<del>n 0.53</del>	29035 81573	1.5 3.1	n y	n n
	2	15:44	1.04	n 2.57	189081 181578	9.9 11.8	y y	n n
	3	16:01	0.85	y 17.69	1013790 1196340	56.3 72.2	y y	n n
	4	16:16	2.07	<del>n 0.33</del>	48366 23404	2.9 1.8	n n	n n
	5	16:50	0.95	n 6.03	405477 425280	20.6 23.9	y y	n n
	6	17:01	0.61	n 2.40	130693 213001	5.0 6.4	y y	n n
	7	17:14	4.18	<del>n 0.69</del>	203641 48716	9.5 2.7	y n	n n
	8	17:27	0.98	n 2.70	187392 190632	9.0 9.4	y y	n n
	9	17:52	0.67	y 8.94	449006 667523	22.1 24.8	y y	n n
2,3,7,8-TCDD	10	17:58	0.60	n 2.64	143690 237538	9.6 13.6	y y	n n
	11	18:08	0.49	n 1.45	78559 159393	3.6 9.3	y y	n n
	12	18:19	1.04	n 2.82	206808 198718	8.5 7.6	y y	n n
	13	18:34	0.58	<del>n 0.41</del>	22019 37874	1.3 1.8	n n	n n
	14	19:12	0.60	<del>n 0.65</del>	35469 59208	1.8 3.4	n y	n n

Run Text: L7DQM-1-AA

Sample text: L7DQM-1-AA :G0I230491-3

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:12  
Run: 10 File: 27SE101D5 S:20 Acq:27-SEP-10 23:04:49  
Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 214.96 of which 82.22 named and 132.74 unnamed  
Conc: 429.91 of which 164.43 named and 265.48 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:44	1.79 n	10.39	1113550 623349	25.6 14.7	y	n
	2	20:56	1.72 y	88.18	8521590 4965910	137.4 86.2	y	n
	3	21:11	1.37 y	7.46	660826 480935	11.1 9.5	y	n
	4	21:26	1.65 y	15.23	1451030 879142	27.4 18.3	y	n
	5	21:49	1.52 y	42.08	3879610 2556220	50.7 37.4	y	n
1,2,3,7,8-PeCDF	6	22:18	1.69 y	122.88	12231600 7226880	228.8 147.6	y	n
	7	22:35	1.62 y	10.09	954956 587905	17.6 12.6	y	n
	8	22:52	1.59 y	39.23	3683300 2316860	52.9 37.2	y	n
2,3,4,7,8-PeCDF	9	23:38	1.61 y	41.55	3783050 2347580	65.3 41.7	y	n
	10	23:58	1.20 n	32.94	3062150 2542510	36.3 29.3	y	n
	11	24:29	1.62 y	8.00	756599 467148	14.2 10.7	y	n
	12	25:36	1.54 y	11.88	1101070 715850	19.4 11.2	y	n

*See 3A*

Run Text: L7DQM-1-AA

Sample text: L7DQM-1-AA :G0I230491-3

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? yes #Hom:13  
 Run: 10 File: 27SE101D5 S:20 Acq:27-SEP-10 23:04:49  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 216.41 of which 76.15 named and 140.26 unnamed  
 Conc: 432.82 of which 152.30 named and 280.52 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:44	1.79 n	10.39	1113550 623350	25.6 14.7	y y	n n
	2	20:56	1.72 y	88.18	8521590 4965910	137.4 86.2	y y	n n
	3	21:11	1.37 y	7.46	660827 480935	11.1 9.5	y y	n n
	4	21:26	1.65 y	15.23	1451030 879142	27.4 18.3	y y	n n
	5	21:49	1.52 y	42.08	3879610 2556220	50.7 37.4	y y	n n
	6	22:13	1.59 y	15.04	1413130 887031	30.9 20.8	y y	y y
1,2,3,7,8-PeCDF	7	22:18	1.68 y	110.75	10989800 6547590	229.5 148.7	y y	y y
	8	22:35	1.62 y	10.09	954958 587907	17.6 12.6	y y	n n
	9	22:52	1.59 y	39.23	3683300 2316860	52.9 37.2	y y	n n
2,3,4,7,8-PeCDF	10	23:38	1.61 y	41.55	3783050 2347580	65.3 41.7	y y	n n
	11	23:58	1.20 n	<del>32.94</del>	3062150 2542510	36.3 29.3	y y	n n
	12	24:29	1.62 y	8.00	756604 467148	14.2 10.7	y y	n n
	13	25:36	1.54 y	11.88	1101060 715852	19.4 11.2	y y	n n

Artifact

3A

Run Text: L7DQM-1-AA

Sample text: L7DQM-1-AA :G0I230491-3

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:6  
 Run: 10 File: 27SE101D5 S:20 Acq:27-SEP-10 23:04:49  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 5.71 of which \* named and 5.71 unnamed  
 Conc: 11.42 of which \* named and 11.42 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:08	1.02	n 0.48	44697 43872	3.7 3.0	y	n
	2	15:18	0.62	n 3.28	304524 493384	26.5 27.5	y	n
	3	15:35	1.86	n 0.19	21197 11386	2.1 0.5	n	n
	4	17:56	1.01	n 0.28	26461 26182	1.6 2.0	n	n
	5	18:57	0.60	n 3.16	294015 487218	19.3 26.4	y	n
	6	19:23	2.01	n 4.03	485720 241785	35.3 12.2	y	n

Run Text: L7DQM-1-AA

Sample text: L7DQM-1-AA :G0I230491-3

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:10  
Run: 10 File: 27SE101D5 S:20 Acq:27-SEP-10 23:04:49  
Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 23.62 of which 3.63 named and 20.00 unnamed  
Conc: 47.25 of which 7.26 named and 39.99 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	21:07	1.71	y 3.94	212311 124157	8.8 4.8	y	n
	2	22:20	1.36	y 4.82	237163 174513	8.6 5.9	y	n
	3	22:34	0.90	n <del>0.79</del>	41103 45628	1.7 2.2	n	n
	4	22:53	1.64	y 14.93	793062 482750	28.2 18.2	y	n
	5	23:11	0.78	n <del>0.60</del>	31204 40237	2.1 2.7	n	n
	6	23:20	1.45	y <del>1.88</del>	94724 65533	3.5 2.7	y	n
	7	23:41	1.36	y <del>1.57</del>	77321 57030	2.4 2.2	n	n
	8	24:00	2.46	n 10.07	830109 337550	26.8 11.7	y	n
1,2,3,7,8-PeCDD	9	24:20	1.39	y 7.26	360313 260065	12.2 11.2	y	n
	10	25:22	1.83	n <del>1.40</del>	86169 46960	3.6 2.4	y	n

Artifact

20.88

Run Text: L7DQM-1-AA

Sample text: L7DQM-1-AA :G0I230491-3

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:14  
 Run: 10 File: 27SE101D5 S:20 Acq:27-SEP-10 23:04:49  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D7

Amount: 413.79 of which 256.20 named and 157.59 unnamed  
 Conc: 827.58 of which 512.41 named and 315.17 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	27:50	1.26 y	44.49	3370490 2677720	32.3 64.0	y	n
	2	28:09	1.26 y	87.76	6653510 5278400	69.2 133.3	y	n
	3	28:26	1.28 y	3.87	295897 230545	3.6 7.6	y	n
	4	28:40	1.34 y	15.32	1192640 889703	15.7 26.6	y	n
	5	28:56	1.32 y	19.07	1474270 1118770	20.4 35.8	y	n
1,2,3,4,7,8-HxCDF	6	29:28	1.35 y	243.40	17139600 12689900	238.6 413.4	y	n
1,2,3,6,7,8-HxCDF	7	29:36	1.29 y	145.40	12196900 9439470	190.4 363.6	y	n
	8	29:44	1.25 y	52.13	3939240 3148760	58.9 111.9	y	n
	9	29:59	1.25 y	48.75	3684750 2942600	43.3 79.7	y	n
2,3,4,6,7,8-HxCDF	10	30:09	1.33 y	95.09	7424020 5582930	76.8 137.6	y	n
1,2,3,7,8,9-HxCDF	11	30:57	1.15 y	28.52	2066960 1802620	42.1 85.9	y	n
	12	31:02	1.19 y	41.58	3066440 2586930	50.5 101.0	y	n
	13	31:41	1.12 y	1.11	79418 71124	1.6 3.1	n	n
	14	31:46	0.89 n	1.09	82325 92411	1.4 3.7	n	n

*See 6A*

Run Text: L7DQM-1-AA

Sample text: L7DQM-1-AA :G0I230491-3

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? yes #Hom:16  
 Run: 10 File: 27SE101D5 S:20 Acq:27-SEP-10 23:04:49  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 412.40 of which 197.60 named and 214.79 unnamed  
 Conc: 824.79 of which 395.21 named and 429.59 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	27:50	1.26 y	44.49	3370490 2677720	32.3 64.0	y	n
	2	28:09	1.26 y	87.76	6653510 5278400	69.2 133.3	y	n
	3	28:26	1.28 y	3.87	295897 230545	3.6 7.6	y	n
	4	28:40	1.34 y	15.32	1192640 889703	15.7 26.6	y	n
	5	28:56	1.32 y	19.07	1474270 1118770	20.4 35.8	y	n
	6	29:26	1.26 y	54.57	4134270 3284700	103.3 204.8	y	y
1,2,3,4,7,8-HxCDF	7	29:28	1.39 y	183.95	13099300 9443900	239.3 414.0	y	y
1,2,3,6,7,8-HxCDF	8	29:36	1.30 y	146.13	12306100 9439480	191.1 363.6	y	y
	9	29:44	1.25 y	52.13	3939240 3148760	58.9 111.9	y	n
	10	29:59	1.25 y	48.75	3684750 2942600	43.3 79.7	y	n
	11	30:09	1.34 y	59.85	4660640 3476480	77.5 138.2	y	y
2,3,4,6,7,8-HxCDF	12	30:14	1.41 y	36.61	2926270 2081470	53.2 89.9	y	y
1,2,3,7,8,9-HxCDF	13	30:57	1.15 y	28.52	2066960 1802620	42.1 85.9	y	n
	14	31:02	1.19 y	41.58	3066440 2586930	50.5 101.0	y	n
	15	31:41	1.12 y	1.11	79418 71124	1.6 3.1	n	n

GA

MO



16	31:46	0.89	n	<del>1.09</del>	82325	1.4	n	n
					92411	3.7	y	n

Run Text: L7DQM-1-AA

Sample text: L7DQM-1-AA :G0I230491-3

Name: Total HxCDD

F:3 Mass: 389.816 391.813 Mod? no #Hom:9

Run: 10 File: 27SE101D5 S:20 Acq:27-SEP-10 23:04:49

Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D7

Amount: 33.81 of which 14.08 named and 19.73 unnamed  
 Conc: 67.62 of which 28.15 named and 39.47 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	28:50	1.23	y 3.94	194095 157656	6.7 4.8	y	n
	2	29:29	1.26	y 18.08	897731 715020	28.3 22.0	y	n
	3	29:47	1.27	y 14.50	724738 568773	27.8 17.3	y	n
	4	29:55	1.65	n <del>1.14</del>	74776 45277	2.3 1.7	n	n
1,2,3,4,7,8-HxCDD	5	30:23	1.17	y 4.77	213001 182217	8.9 7.7	y	n
1,2,3,6,7,8-HxCDD	6	30:29	1.38	y 10.80	528799 384209	22.1 15.4	y	n
1,2,3,7,8,9-HxCDD	7	30:46	1.42	y 12.58	740853 520610	29.6 17.6	y	n
	8	30:56	5.83	n 0.62	144504 24770	4.9 1.3	y	n
	9	31:40	1.57	n 1.19	74701 47533	2.6 2.0	n	n

Run Text: L7DQM-1-AA

Sample text: L7DQM-1-AA :G0I230491-3

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:7  
 Run: 10 File: 27SE101D5 S:20 Acq:27-SEP-10 23:04:49  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 648.61 of which 457.32 named and 191.29 unnamed  
 Conc: 1297.22 of which 914.64 named and 382.58 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	32:23	1.09	y 668.46	41800000 38495400	808.8 893.5	y	n
	2	32:35	1.05	y 141.81	8174510 7817230	152.5 174.7	y	n
	3	32:43	1.05	y 232.64	13455400 12779200	240.2 270.8	y	n
	4	33:05	1.54	n 1.48	125988 81709	1.5 1.5	n	n
	5	33:17	0.77	n 4.14	238143 307704	4.6 7.3	y	n
1,2,3,4,7,8,9-HpCDF	6	33:34	1.04	y 246.17	13243500 12707000	234.4 269.1	y	n
	7	34:47	0.57	n 2.50	143900 250986	2.9 5.6	n	n

Run Text: L7DQM-1-AA

Sample text: L7DQM-1-AA :G0I230491-3

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:5  
 Run: 10 File: 27SE101D5 S:20 Acq:27-SEP-10 23:04:49  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 40.21 of which 24.31 named and 15.90 unnamed  
 Conc: 80.41 of which 48.61 named and 31.80 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:22	4.73 n	0.78	148528 31397	6.8 1.7	y	n
	2	32:39	1.05 y	24.97	1048120 1000610	52.6 55.0	y	n
1,2,3,4,6,7,8-HpCDD	3	33:15	1.14 y	48.61	2125930 1862360	86.6 86.1	y	n
	4	33:33	2.49 n	1.14	114118 45853	4.5 2.8	y	n
	5	34:47	1.62 n	4.90	319981 197237	14.7 10.4	y	n

Run Text: L7DQM-1-AA

Sample text: L7DQM-1-AA :G0I230491-3

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:5  
 Run: 10 File: 27SE101D5 S:20 Acq:27-SEP-10 23:04:49  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D7

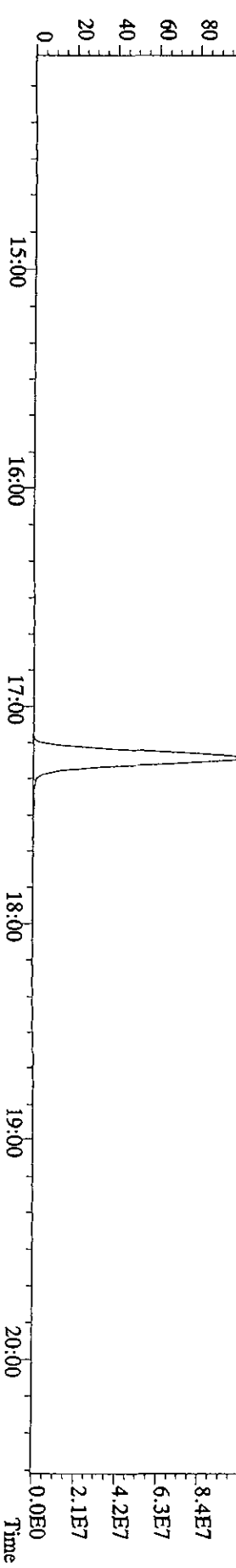
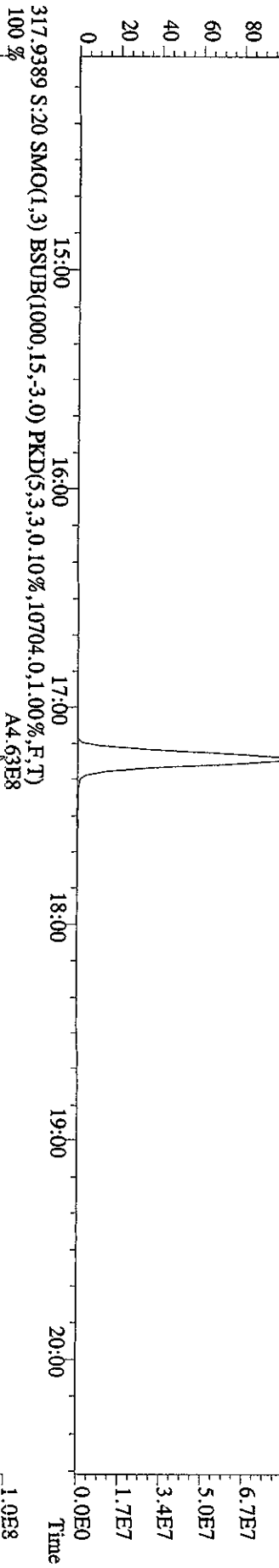
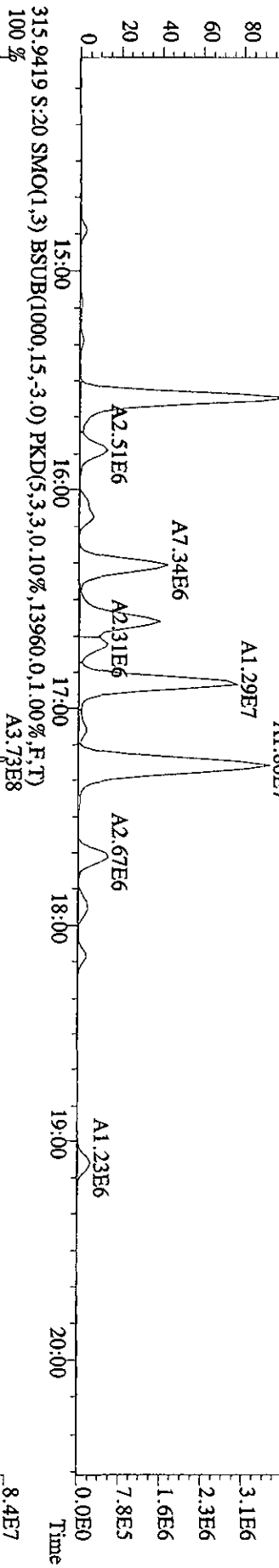
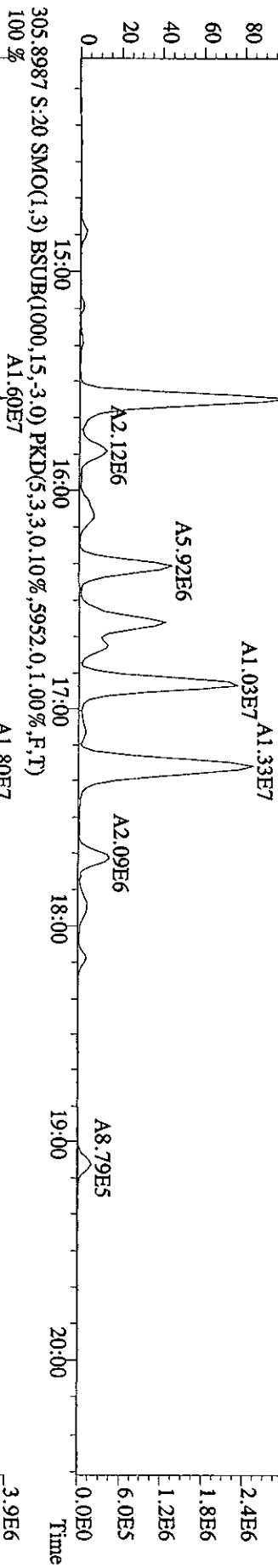
Amount: 40.21 of which 24.31 named and 15.90 unnamed  
 Conc: 80.41 of which 48.61 named and 31.80 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:22	4.73 n	0.78	148528 31397	6.8 1.7	y n	n n
	2	32:39	1.05 y	24.97	1048120 1000610	52.6 55.0	y y	n n
1,2,3,4,6,7,8-HpCDD	3	33:15	1.14 y	48.61	2125930 1862360	86.6 86.1	y y	n n
	4	33:33	2.49 n	1.14	114118 45853	4.5 2.8	y n	n n
	5	34:47	1.62 n	4.90	319981 197237	14.7 10.4	y y	n n

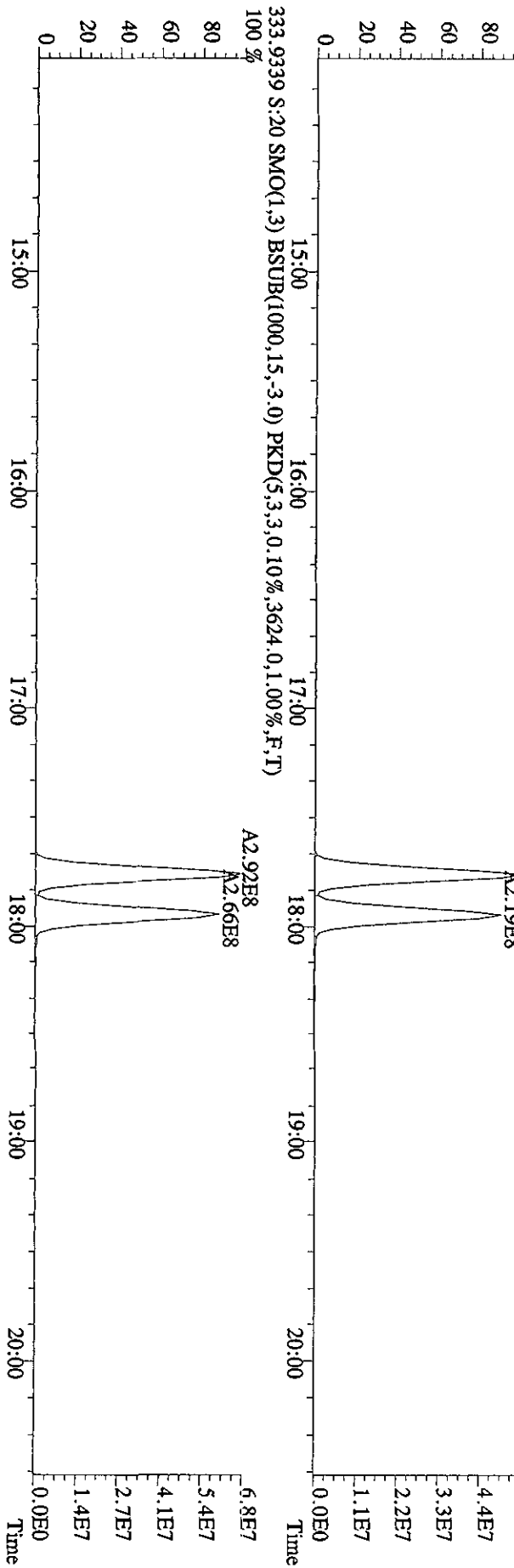
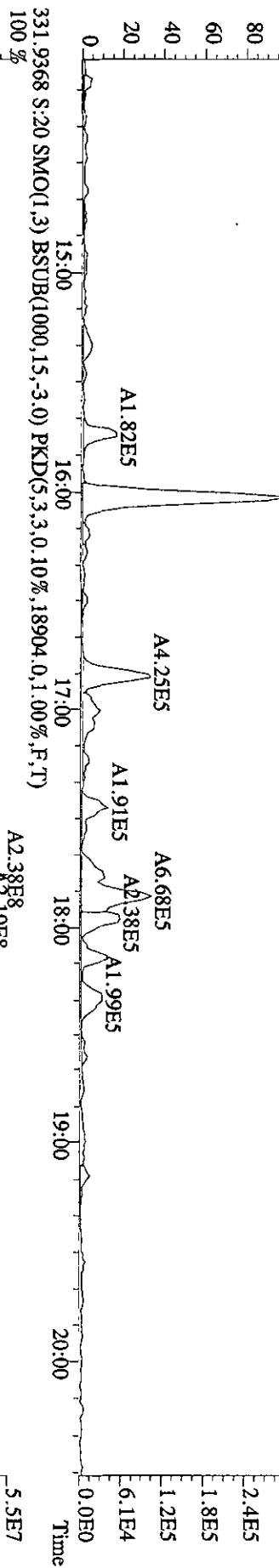
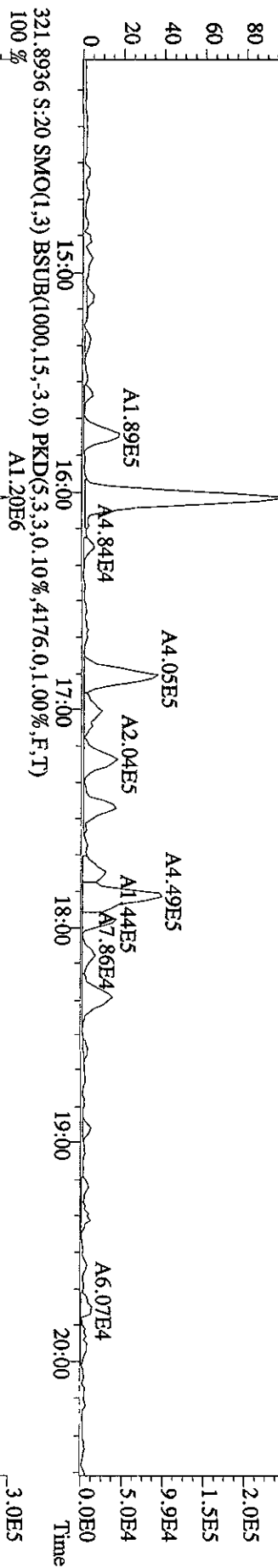
Run text: L7DQM-1-AA Sample text: L7DQM-1-AA :G0I230491-3  
 Run #10 Filename: 27SE101D5 S: 20 I: 1 Results: 27SE101D5TO9  
 Acquired: 27-SEP-10 23:04:49 Processed: 28-SEP-10 09:22:54  
 Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5  
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000Sample

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	529823000	0.82 y	17:45	-	303.25	-	-	n
13C-2,3,7,8-TCDF	835777000	0.81 y	17:14	1.56	4036.84	1.55	100.9	n
2,3,7,8-TCDF	31357700	0.74 y	17:16	0.98	152.56	0.83	-	n
Total TCDF	130368199	0.82 y	14:49	0.98	634.24	0.83	-	n
13C-2,3,7,8-TCDD	484359000	0.82 y	17:57	0.92	3970.90	2.40	99.3	n
2,3,7,8-TCDD	330300	0.60 n	17:58	1.03	2.64	0.90	-	n
Total TCDD	6227800	0.36 n	15:18	1.03	49.85	0.90	-	n
37Cl-2,3,7,8-TCDD	262532000	1.00 y	17:58	1.23	1768.02	1.36	110.5	n
13C-1,2,3,7,8-PeCDF	579959000	1.65 y	22:16	1.05	4159.88	1.58	104.0	n
1,2,3,7,8-PeCDF	19458480	1.69 y	22:18	1.09	122.88	1.76	-	n
2,3,4,7,8-PeCDF	6130630	1.61 y	23:38	1.02	41.55	1.89	-	n
Total F2 PeCDF	66195332	1.79 n	20:44	1.05	429.91	1.83	-	n
Total F1 PeCDF	1747344	1.02 n	15:08	1.05	11.42	0.78	-	n
13C-1,2,3,7,8-PeCDD	319413000	1.64 y	24:18	0.56	4299.55	1.28	107.5	n
1,2,3,7,8-PeCDD	620378	1.39 y	24:20	1.07	7.26	1.91	-	n
Total PeCDD	4038400	1.71 y	21:07	1.07	47.25	1.91	-	n
13C-1,2,3,7,8,9-HxCDD	490700000	1.28 y	30:46	-	299.01	-	-	n
13C-1,2,3,4,7,8-HxCDF	388762000	0.52 y	29:27	0.99	3198.32	4.04	80.0	n
1,2,3,4,7,8-HxCDF	29829500	1.35 y	29:28	1.26	243.40	2.21	-	n
1,2,3,6,7,8-HxCDF	21636370	1.29 y	29:36	1.53	145.40	1.82	-	n
2,3,4,6,7,8-HxCDF	13006950	1.33 y	30:09	1.41	95.09	1.98	-	n
1,2,3,7,8,9-HxCDF	3869580	1.15 y	30:57	1.40	28.52	2.00	-	n
Total HxCDF	111192323	1.26 y	27:50	1.40	827.58	1.99	-	n
13C-1,2,3,6,7,8-HxCDD	296189000	1.30 y	30:28	0.74	3264.99	1.12	81.6	n
1,2,3,4,7,8-HxCDD	395218	1.17 y	30:23	1.12	4.77	1.70	-	n
1,2,3,6,7,8-HxCDD	913008	1.38 y	30:29	1.14	10.80	1.67	-	n
1,2,3,7,8,9-HxCDD	1261463	1.42 y	30:46	1.35	12.58	1.41	-	n
Total HxCDD	6091082	1.23 y	28:50	1.20	67.62	1.58	-	n
13C-1,2,3,4,6,7,8-HpCDF	341211000	0.46 y	32:22	0.96	2909.12	5.89	72.7	n
1,2,3,4,6,7,8-HpCDF	80295400	1.09 y	32:23	1.41	668.46	2.41	-	n
1,2,3,4,7,8,9-HpCDF	25950500	1.04 y	33:34	1.24	246.17	2.75	-	n
Total HpCDF	149388319	1.09 y	32:23	1.32	1297.22	2.57	-	n
13C-1,2,3,4,6,7,8-HpCDD	289291000	1.09 y	33:14	0.71	3311.14	4.12	82.8	n
1,2,3,4,6,7,8-HpCDD	3988290	1.14 y	33:15	1.13	48.61	1.40	-	n
Total HpCDD	6596975	4.73 n	32:22	1.13	80.41	1.40	-	n
13C-OCDD	272778000	0.90 y	35:49	0.35	6304.73	4.39	78.8	n
OCDF	99957700	0.90 y	35:56	2.12	1384.43	1.94	-	n
OCDD	2202710	1.00 y	35:49	1.37	47.12	2.54	-	n

File: 27SE101D5 #1-382 Acq: 27-SEP-2010 23:04:49 GC EI + Voltage SIR 70SE  
 Sample#20 Text: L7DQM-1-AA : G0I230491-3 Exp: DIOXINRES  
 303.9016 S:20 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6908,0.1,00%,F,T)  
 100% A1.23E7

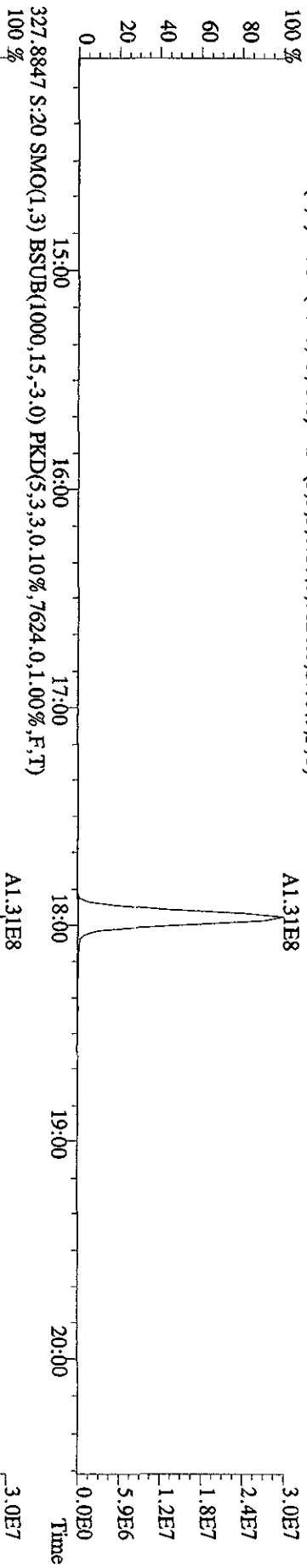


File: 27SEI01D5 #1-382 Acq: 27-SEP-2010 23:04:49 GC EI+ Voltage: SIR 70SE  
 Sample# 20 Text: L7DDQM-1-AA : G0I230491-3 Exp: DIOXINRES  
 319.8965 S:20 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4344,0,1,100%,F,T)  
 A1.01E6

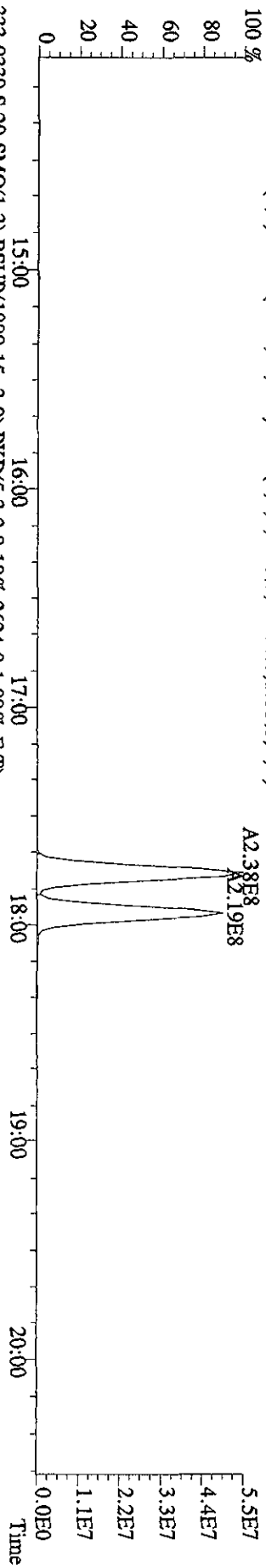




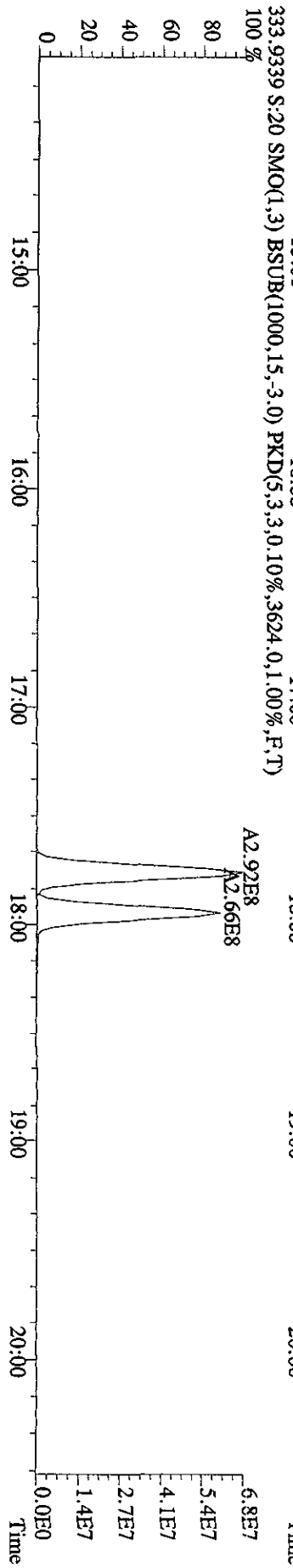
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 Sample#20 Text: L7DQM-1-AA : G01230491-3 Exp: DIOXINRES  
 327.8847 S:20 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7624,0,1,00%,F,T)  
 100%



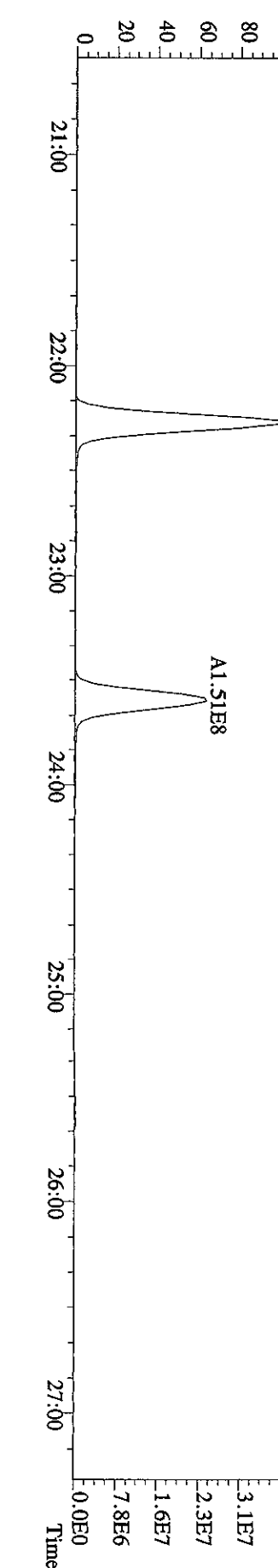
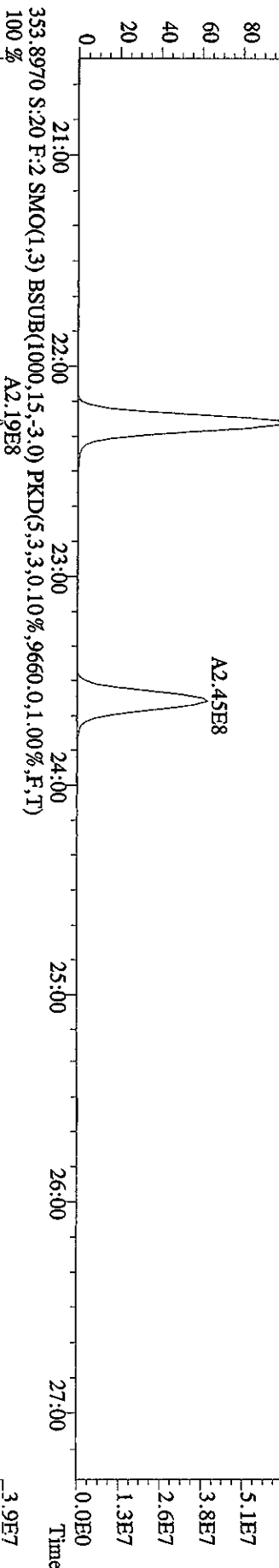
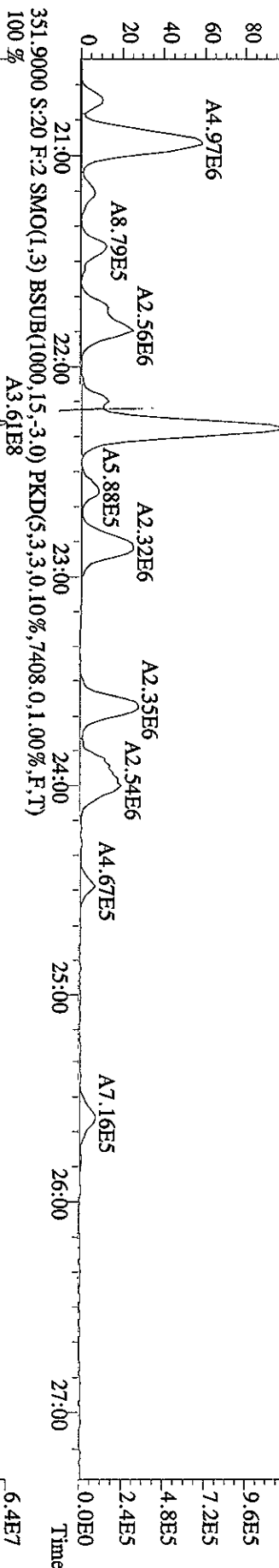
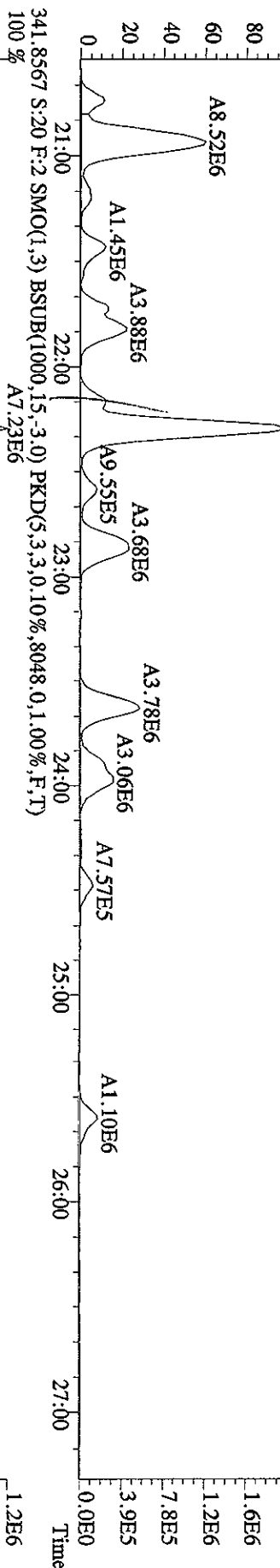
331.9368 S:20 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,18904,0,1,00%,F,T)  
 100%



333.9339 S:20 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3624,0,1,00%,F,T)  
 100%



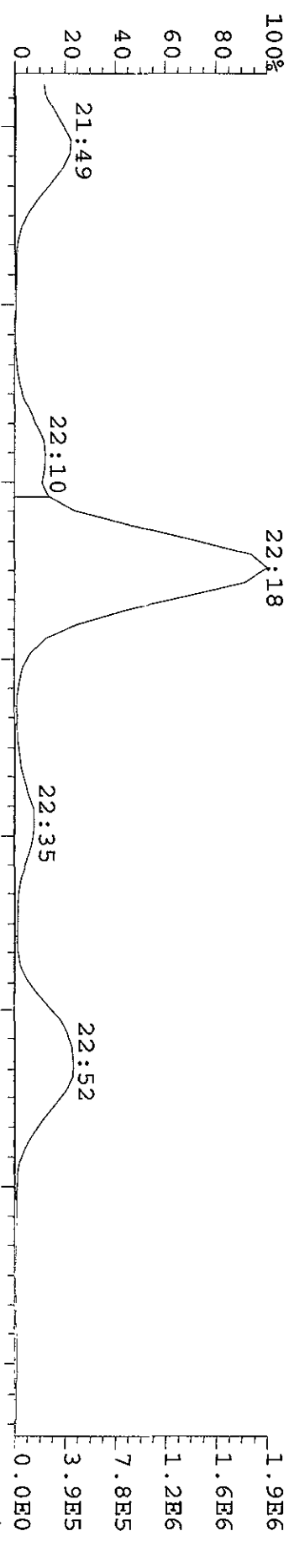
File: 27SE101D5 #1-422 Acq: 27-SEP-2010 23:04:49 GC EI+ Voltage SIR 70SE  
 Sample#20 Text: L7DOM-1-AA : G01230491-3 Exp: DIOXINRES  
 339.8597 S: 20 F: 2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8492,0,1,00%,F,T)  
 100%



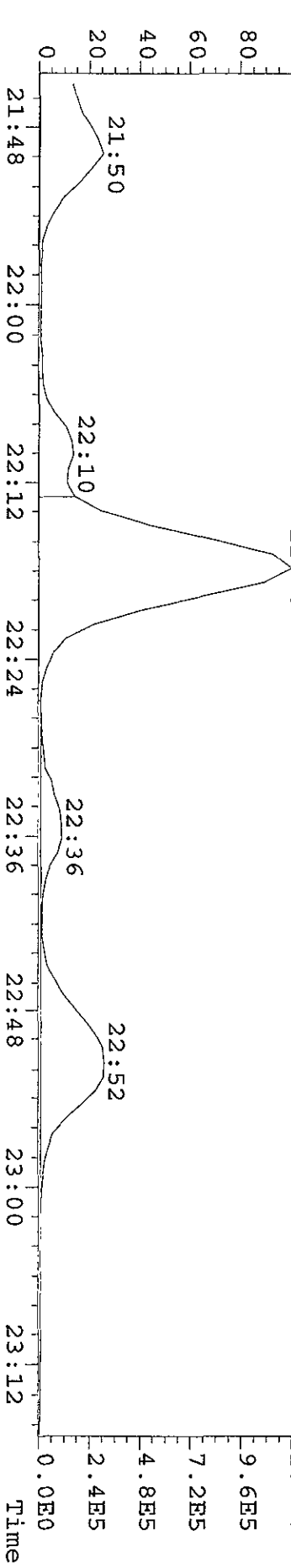
File: 27SE101D5 #1-422 Acq: 27-SEP-2010 23:04:49 GC FI+ Voltage SIR 70SE

Sample#20 Text: L7DDQM-1-AA : G0I230491-3 Exp: DIOXINRES

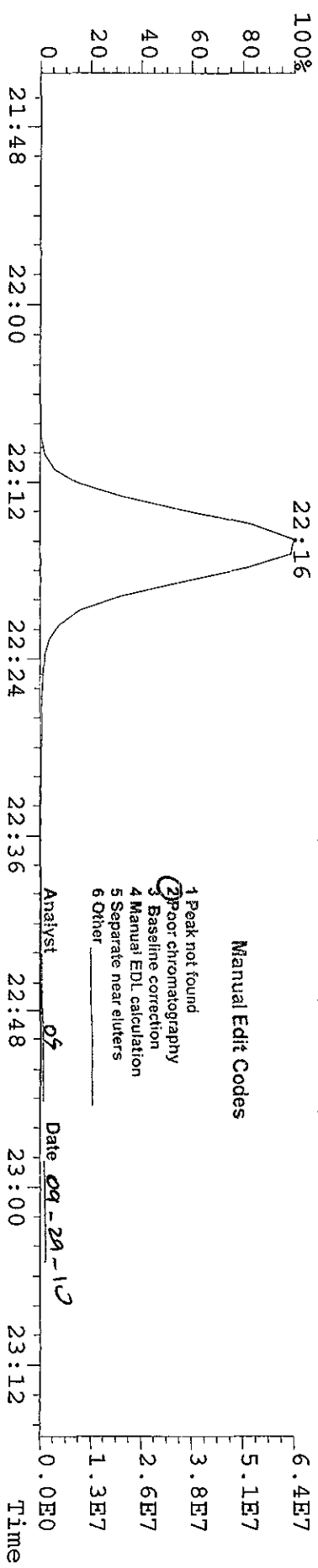
339.8597 S:20 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8492.0,1.00%,F,T)



341.8567 S:20 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8048.0,1.00%,F,T)



351.9000 S:20 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7408.0,1.00%,F,T)

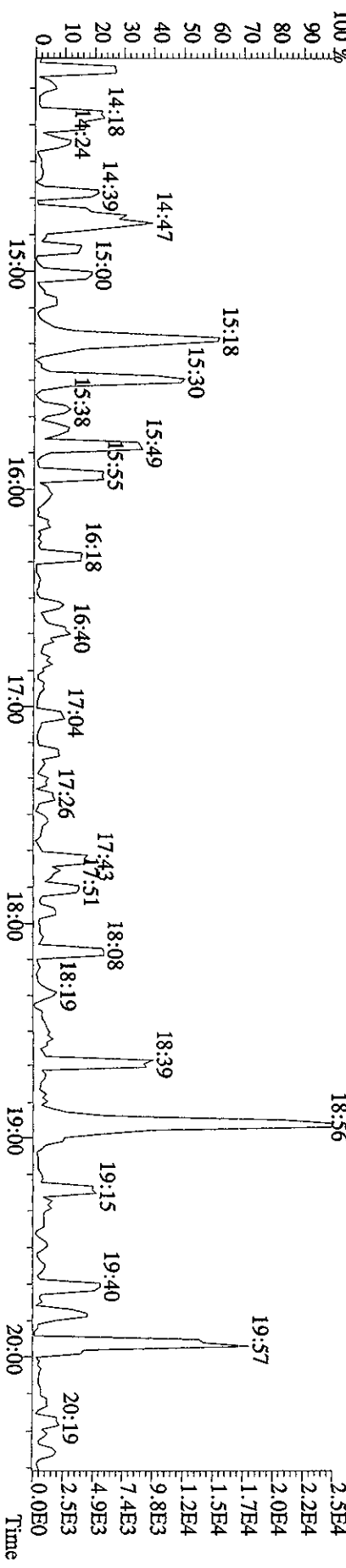
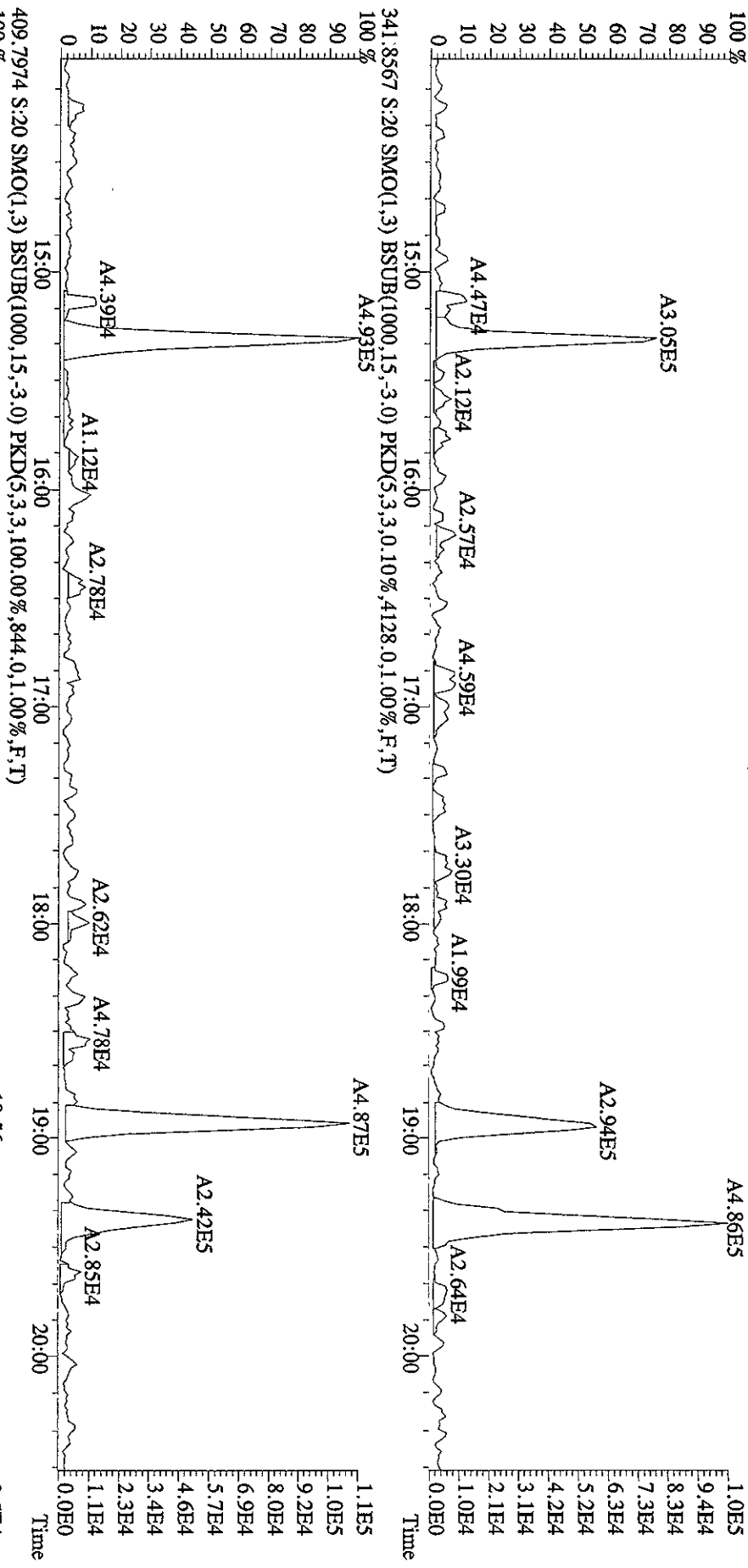


Manual Edit Codes

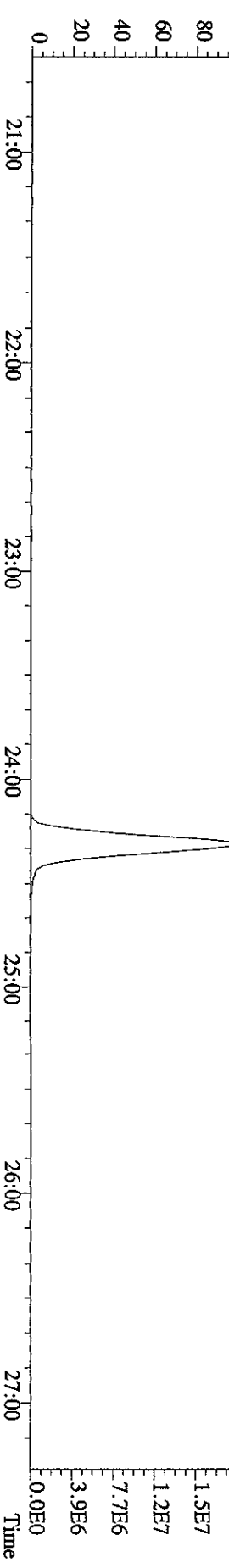
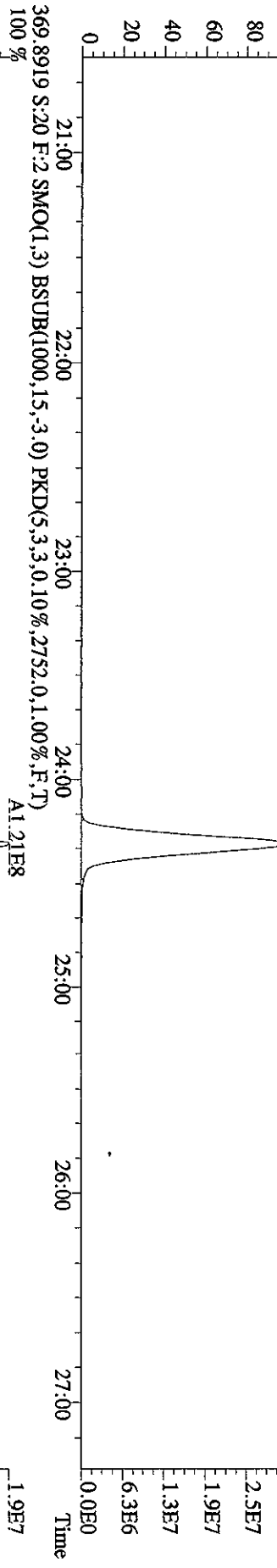
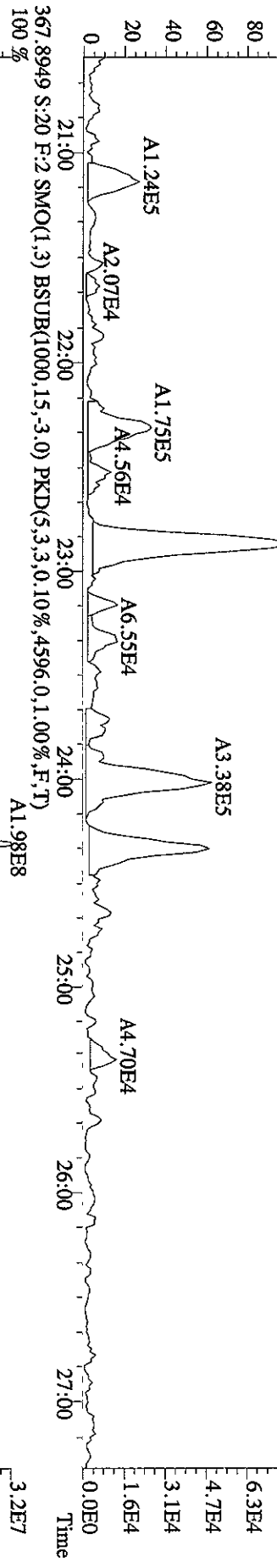
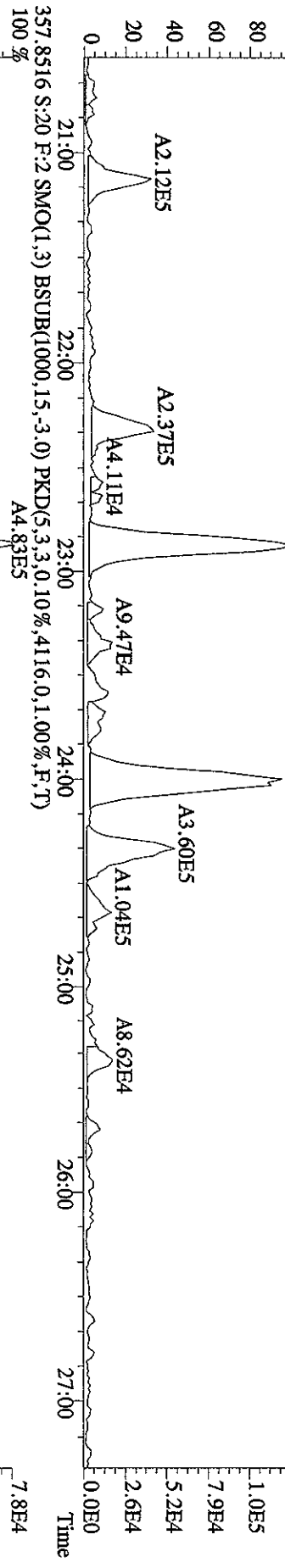
- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other \_\_\_\_\_

Analyst: 05 Date: 09-29-10

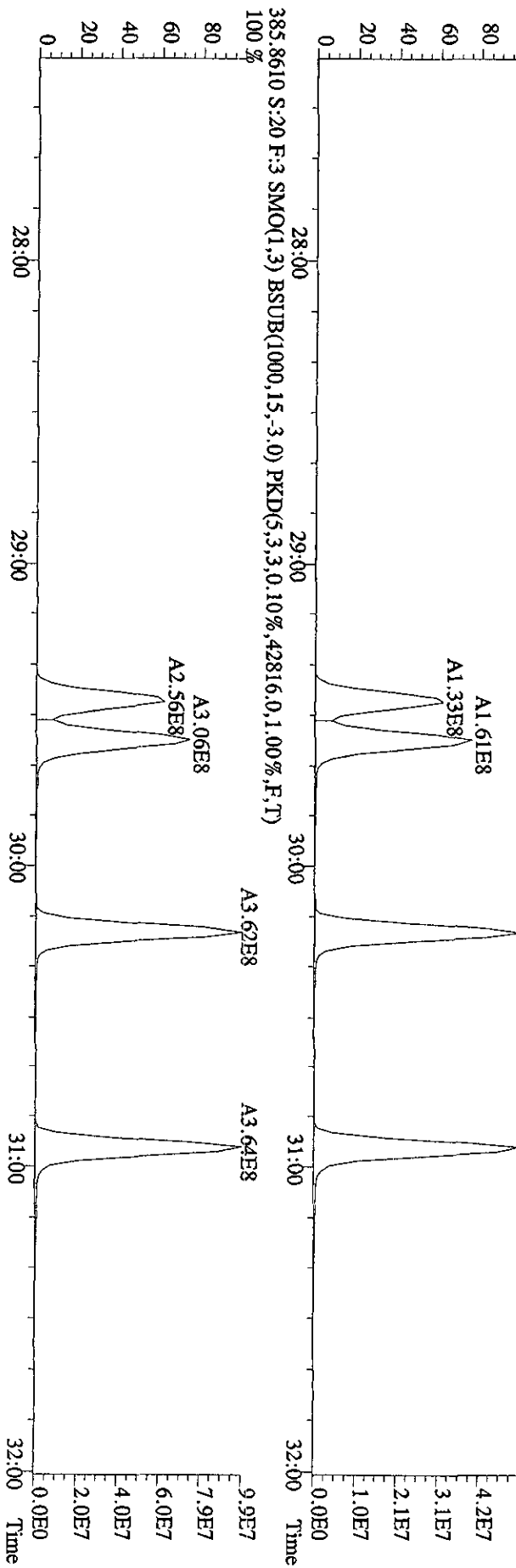
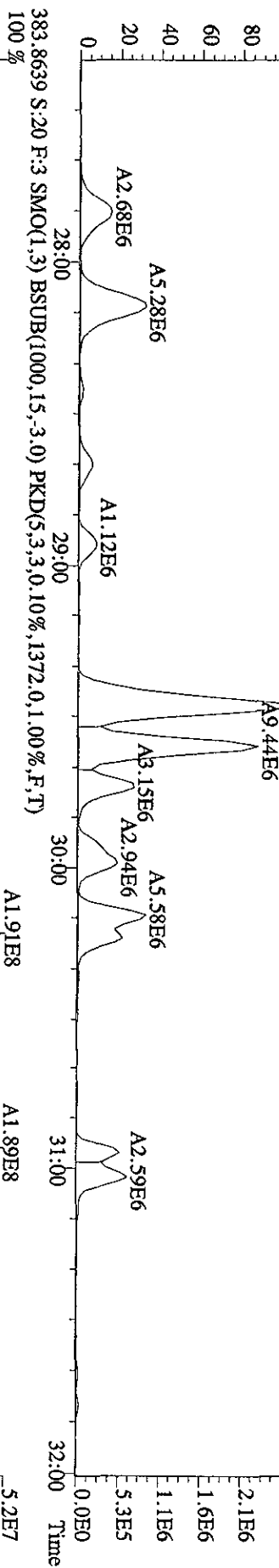
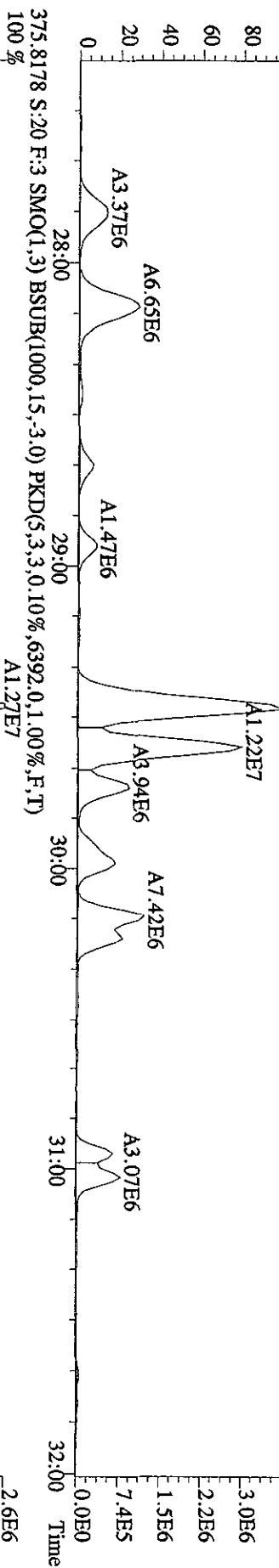
File: 27SE101D5 #1-382 Acq: 27-SEP-2010 23:04:49 GC FI + Voltage SIR 70SE  
 Sample#20 Text: L7DQM-1-AA :G0I230491-3 Exp: DIOXINRES  
 339.8597 S:20 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2916.0,1.00%,F,T)



File: 27SE101D5 #1-422 Acq: 27-SEP-2010 23:04:49 GC EI+ Voltage SIR 70SE  
 Sample#20 Text: L7DOM-1-AA : G0I230491-3 Exp: DIOXINRES  
 355.8546 S:20 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4544,0.1,0.00%,F,T) A7.93E5 A8.30E5



File:27SEI01D5 #1-301 Acq:27-SEP-2010 23:04:49 GC EI+ Voltage SIR 70SE  
 Sample#20 Text:L7DQM-1-AA :G0I230491-3 Exp:DIOXINRES  
 373.8208 S:20 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,15488,0,1,00%,F,T)  
 100% A1.71E7

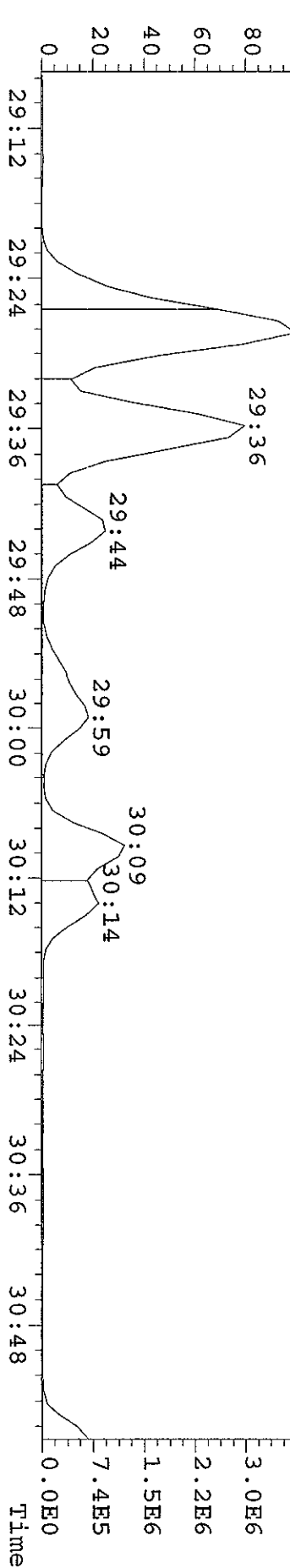


File: 27SE101D5 #1-301 Acq: 27-SEP-2010 23:04:49 GC EI+ Voltage SIR 70SE

Sample# 20 Text: L7DQM-1-AA : G0I230491-3 Exp: DIOXINRES

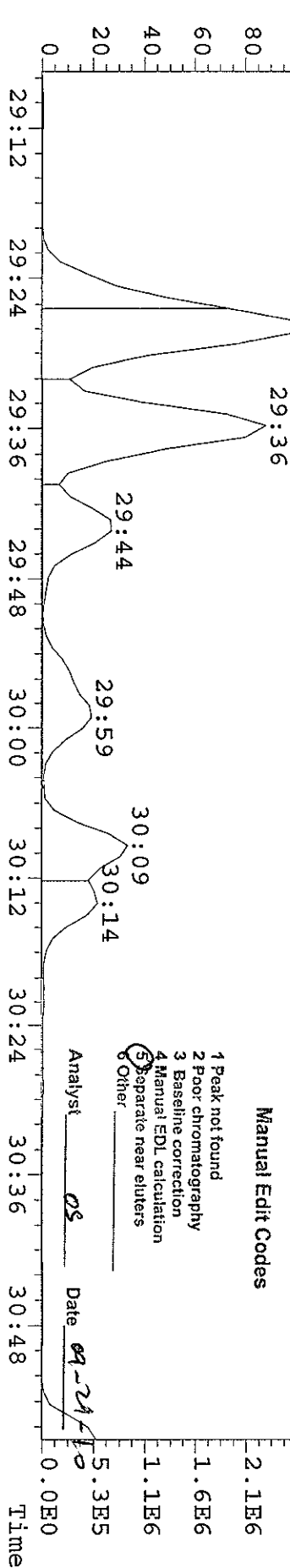
373.8208 S: 20 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15488.0,1.00%,F,T)

29:28



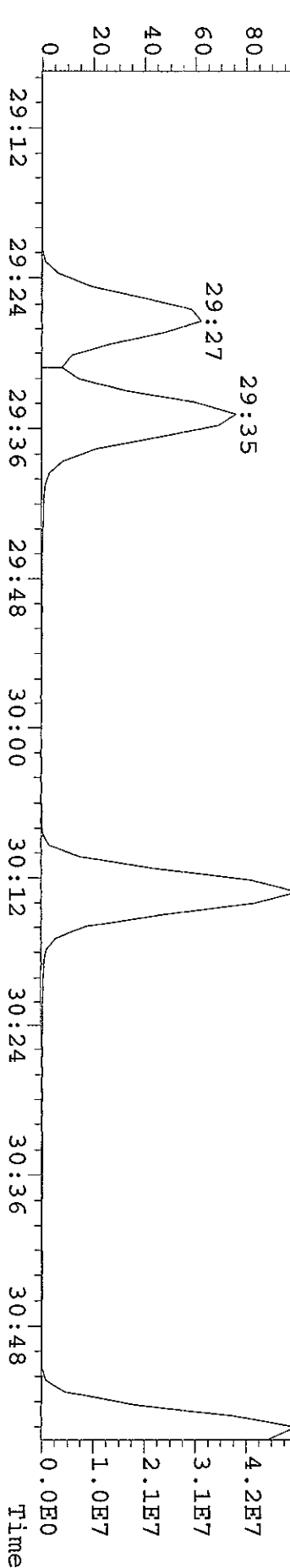
375.8178 S: 20 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6392.0,1.00%,F,T)

29:27



383.8639 S: 20 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1372.0,1.00%,F,T)

29:27

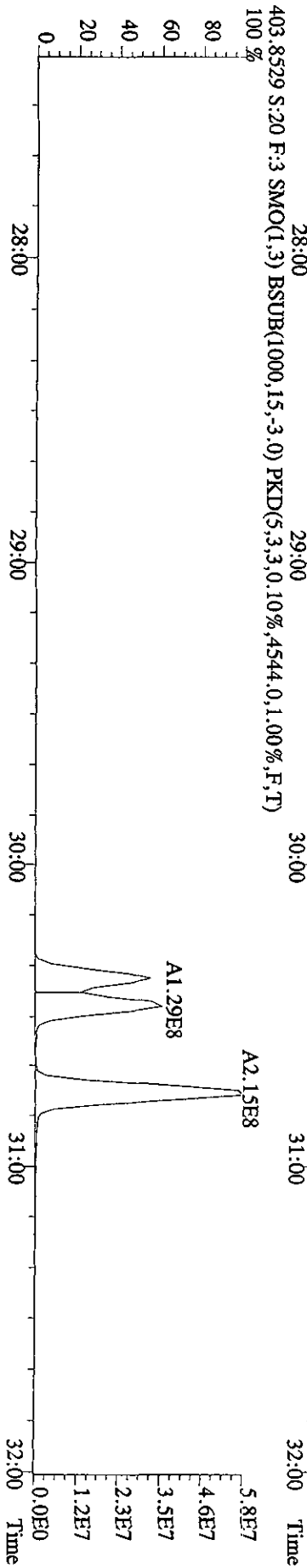
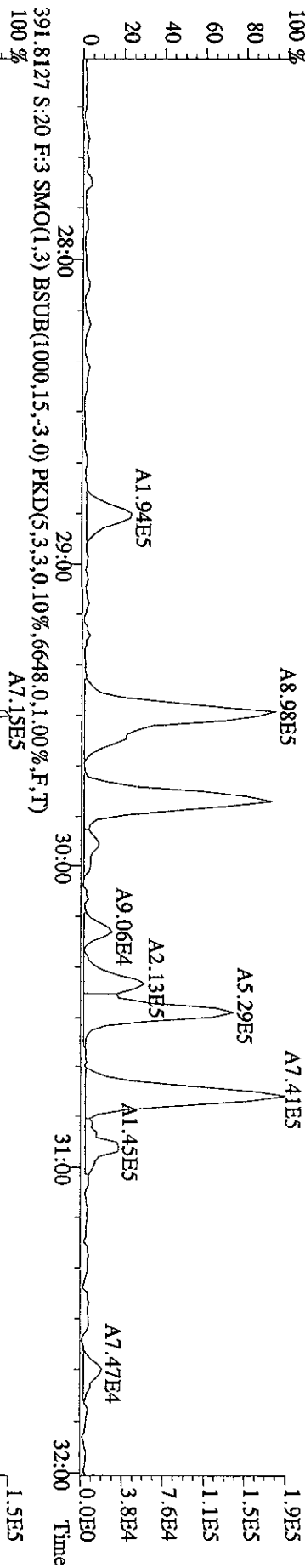


Manual Edit Codes

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

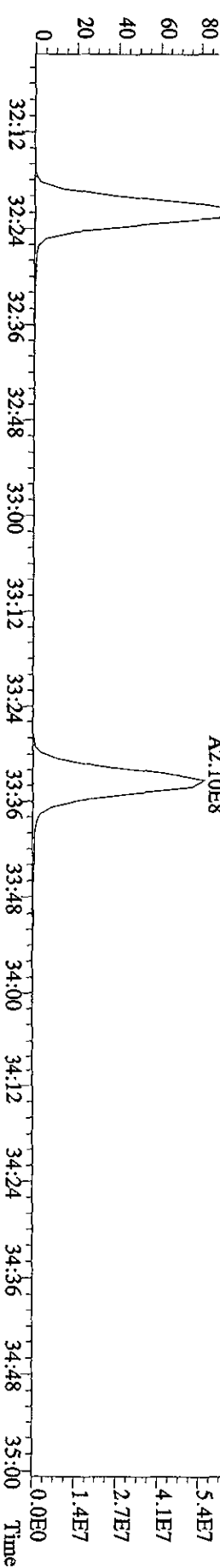
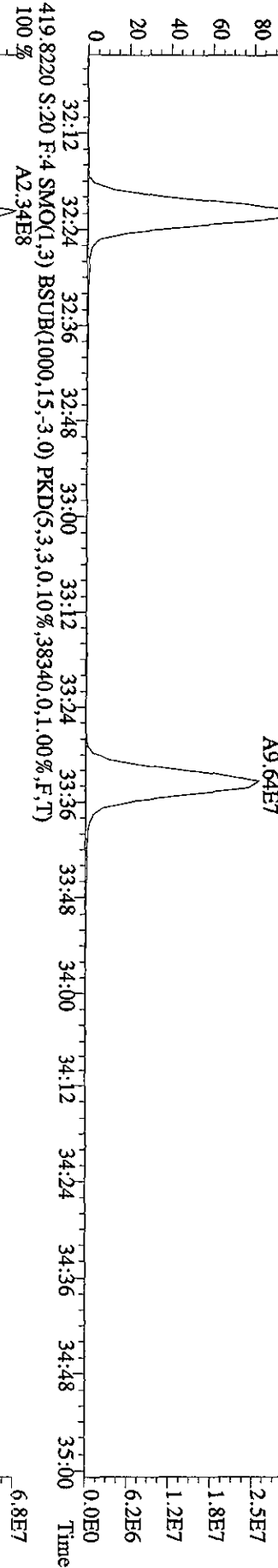
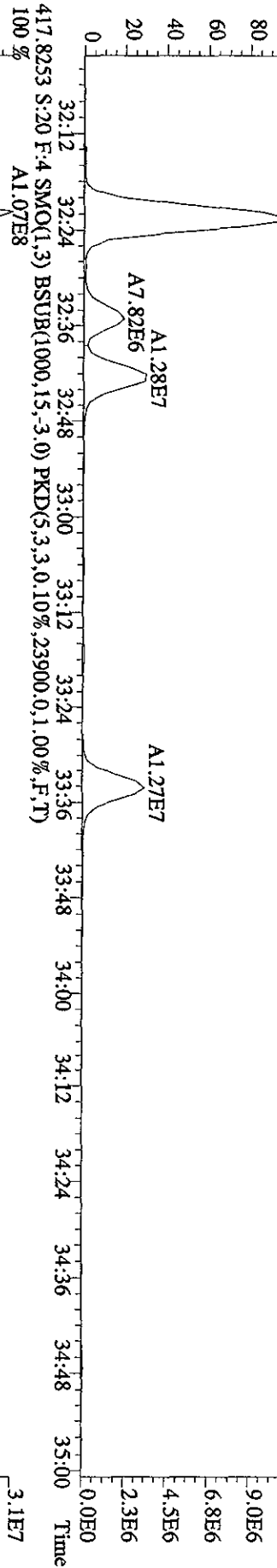
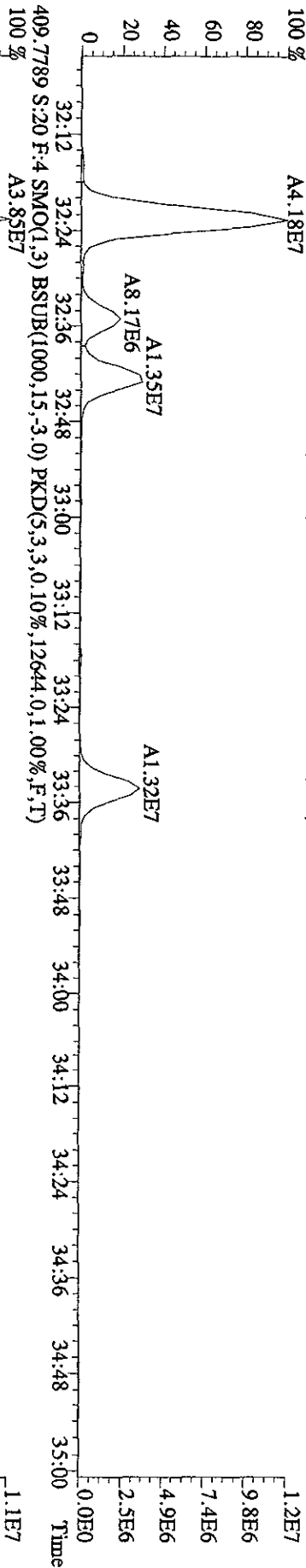
Analyst OS Date 09-24-10

File: 27SE101D5 #1-301 Acq: 27-SEP-2010 23:04:49 GC EI+ Voltage STR 70SE  
 Sample# 20 Text: L7DOM-1-AA : G01230491-3 Exp: DIOXINRES  
 389.8157 S: 20 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6252,0,1.00%,F,T)

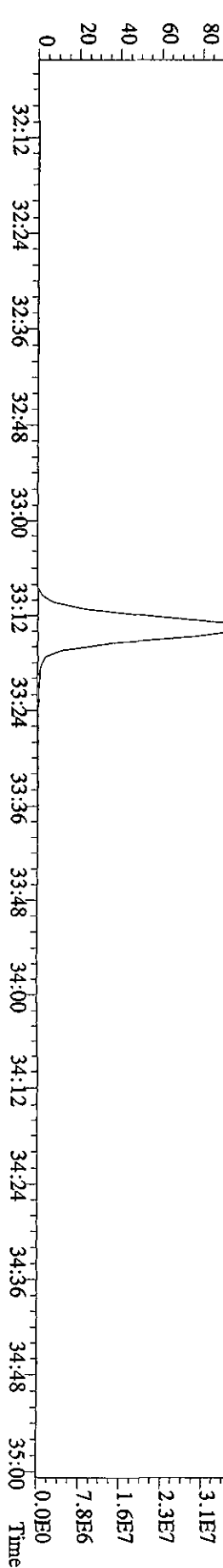
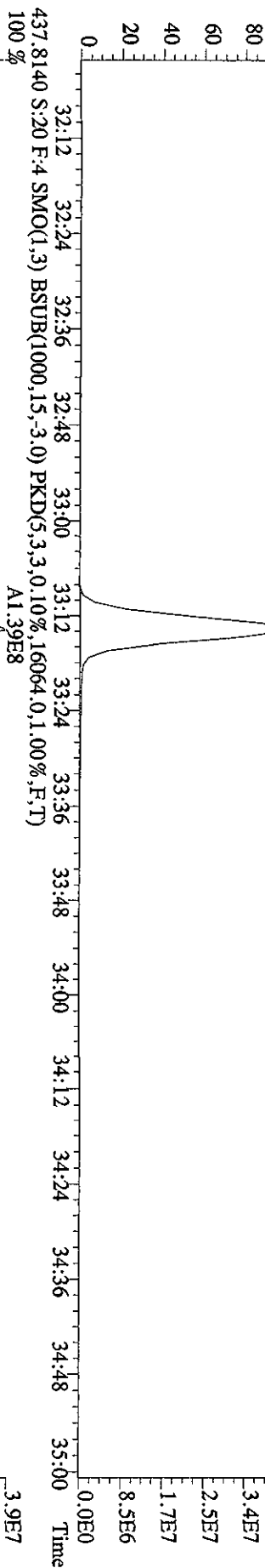
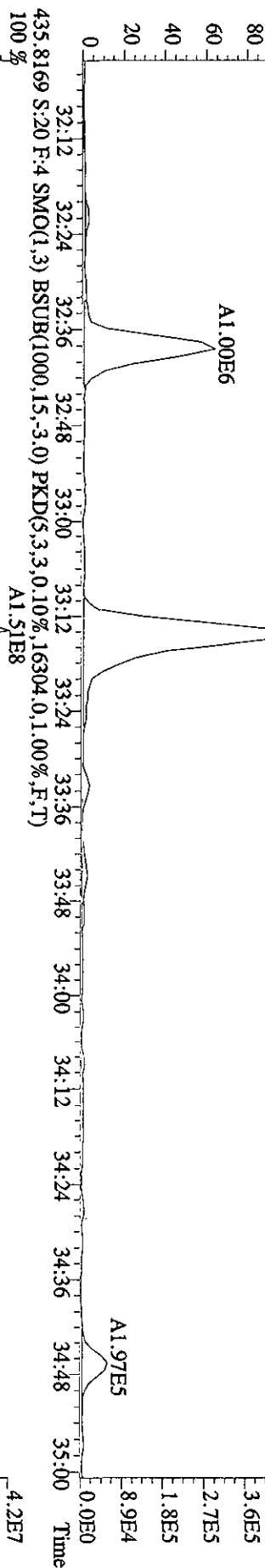
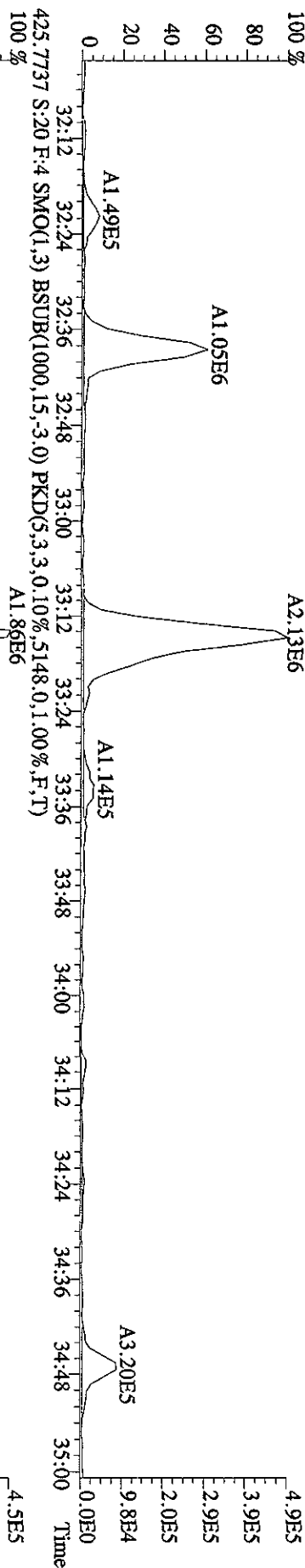




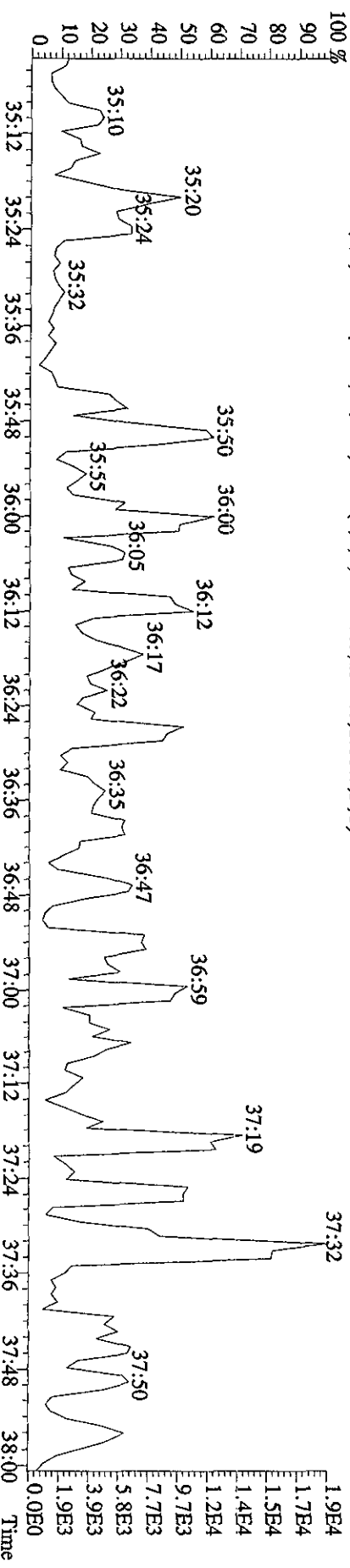
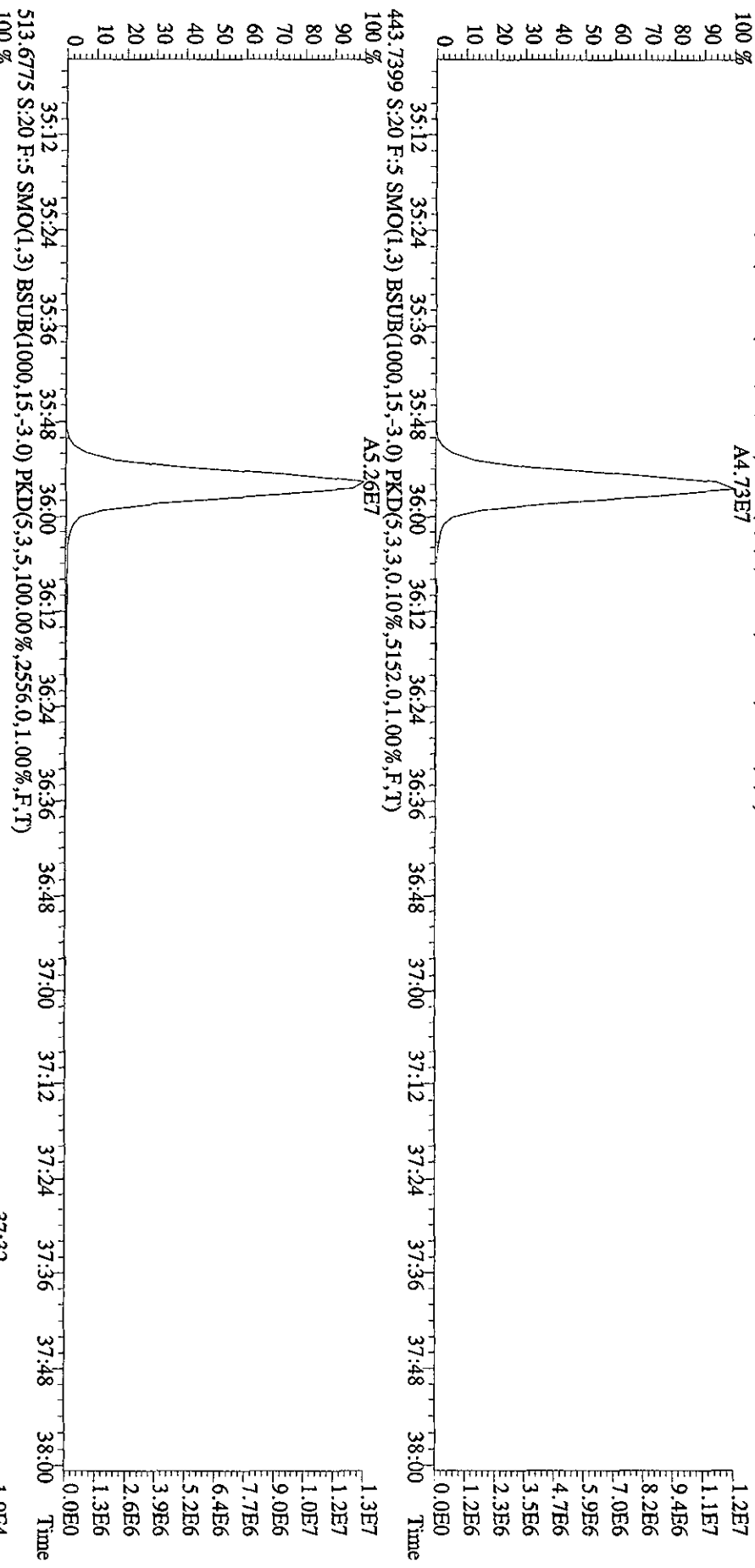
407.7818 S:20 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15192.0,1.00%,F,T)



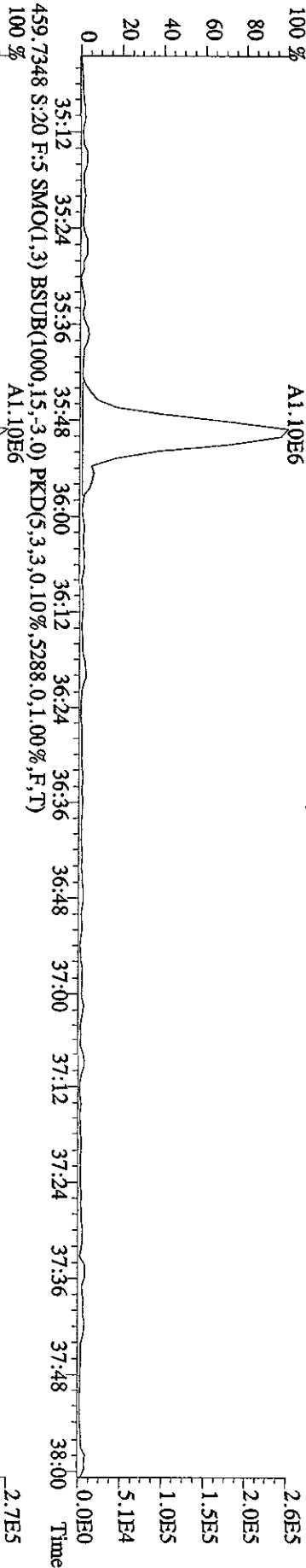
File: 27SE101D5 #1-203 Acq: 27-SEP-2010 23:04:49 GC EI+ Voltage: SIR 70SE  
 Sample#20 Text: L7DOM-1-AA : G0I230491-3 Exp: DIOXINRES  
 423.7766 S:20 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5620,0,1,00%,F,T)  
 A2.13E6



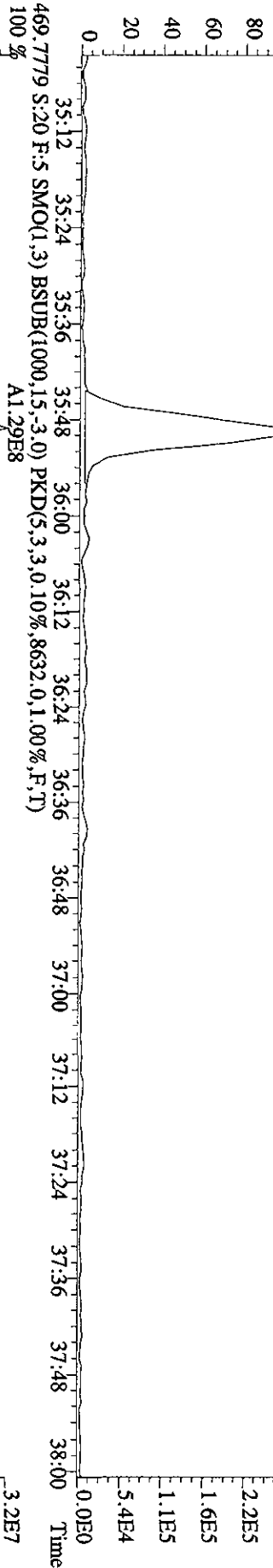
File: 27SE101D5 #1-196 Acq: 27-SEP-2010 23:04:49 GC EI+ Voltage SIR 70SE  
 Sample# 20 Text: L7DOM-1-AA : G01230491-3 Exp: DIOXINRES  
 441.7428 S:20 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6612.0,1.00%,F,T)  
 100% A4.73E7



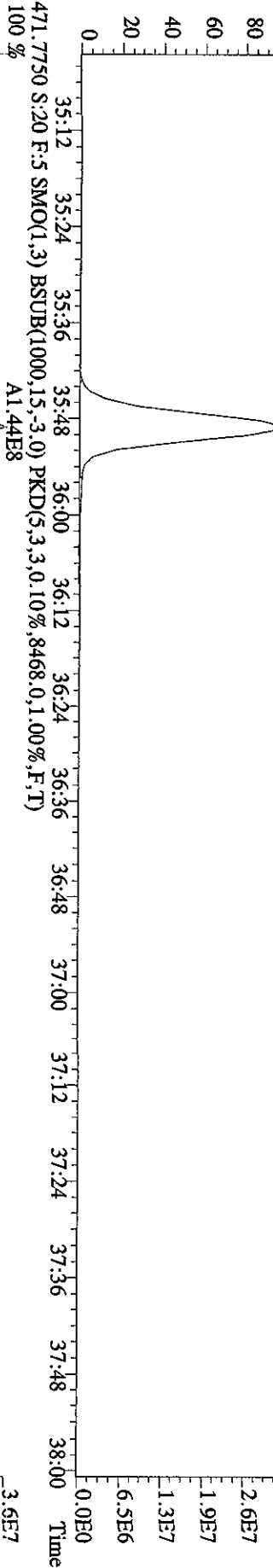
457.7377 S:20 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4668,0,1,00%,F,T)



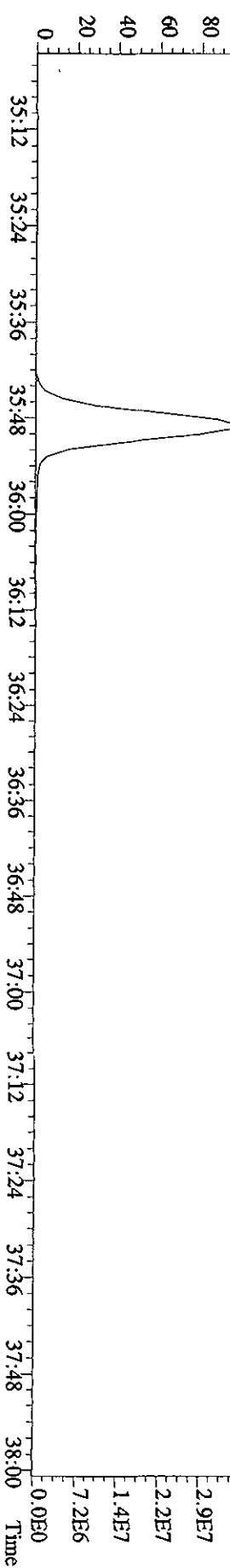
459.7348 S:20 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5288,0,1,00%,F,T)



471.7750 S:20 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8468,0,1,00%,F,T)



469.7779 S:20 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8632,0,1,00%,F,T)



File: 27SEI01D5 #1-382 Acq: 27-SEP-2010 23:04:49 GC EI+ Voltage SIR 70SE  
 Sample#20 Text: LTDQM-1-AA :G01230491-3 Exp: DIOXINRES  
 292.9825 S:20 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)  
 14:21 14:43 15:11 15:41 16:15 16:56 17:26 17:52 18:16 18:52 19:31 20:09

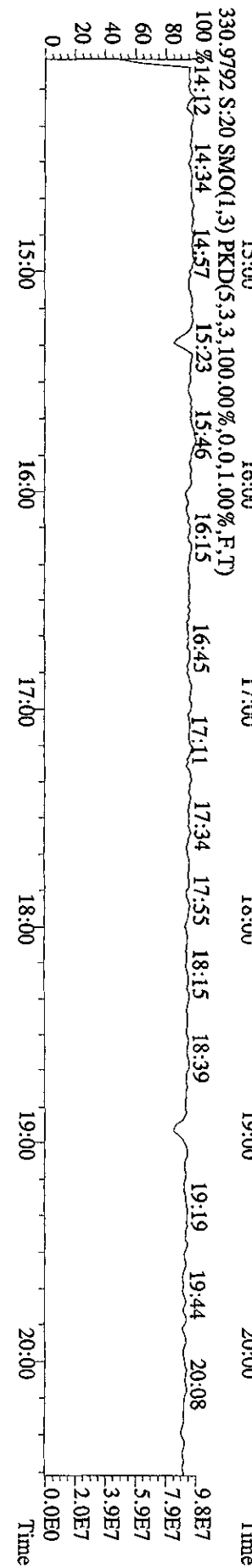
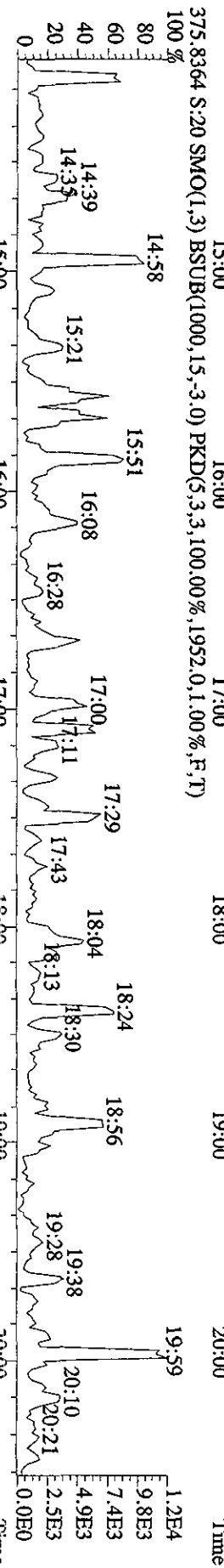
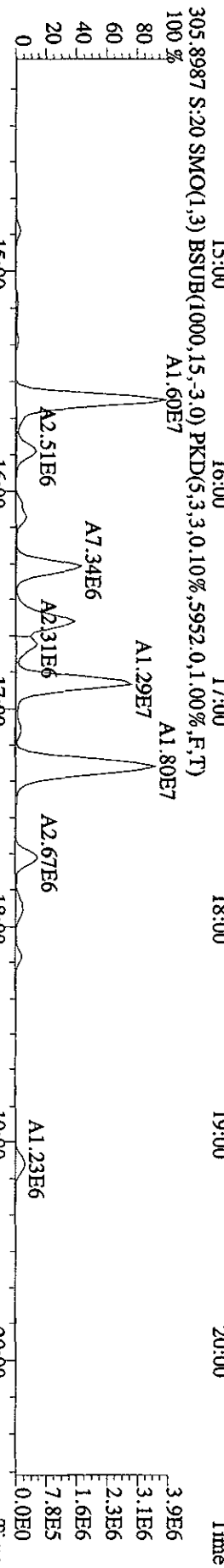
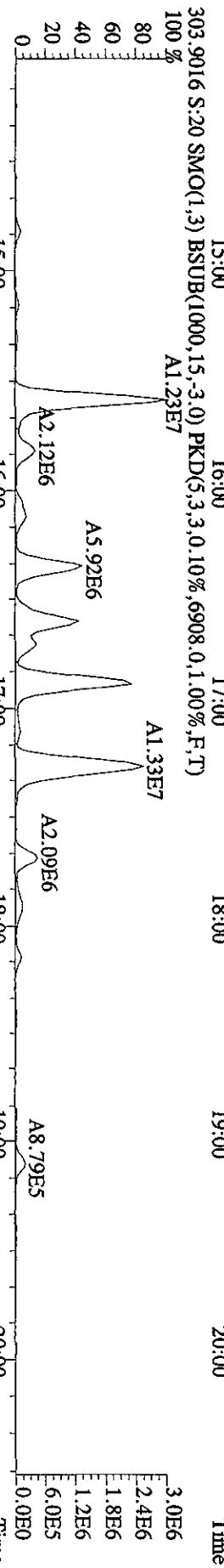
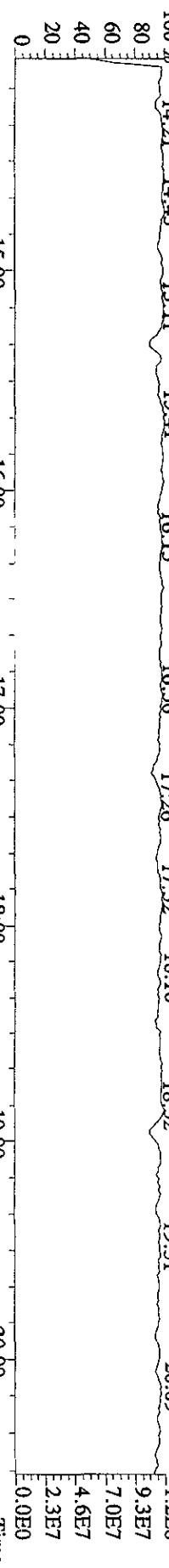
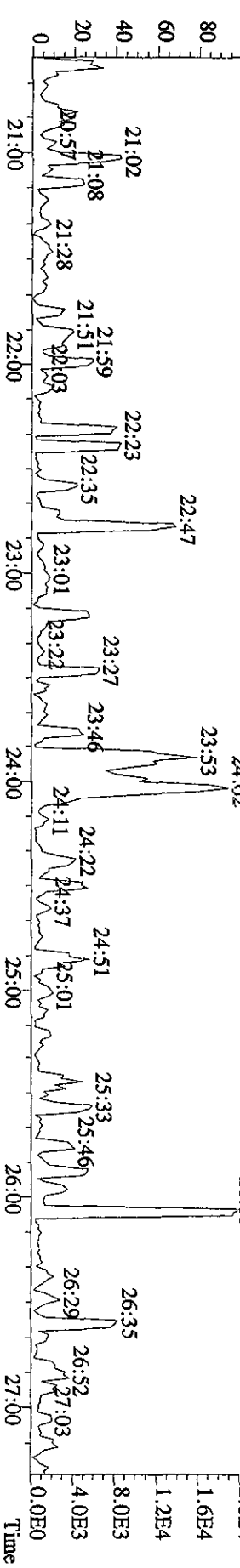
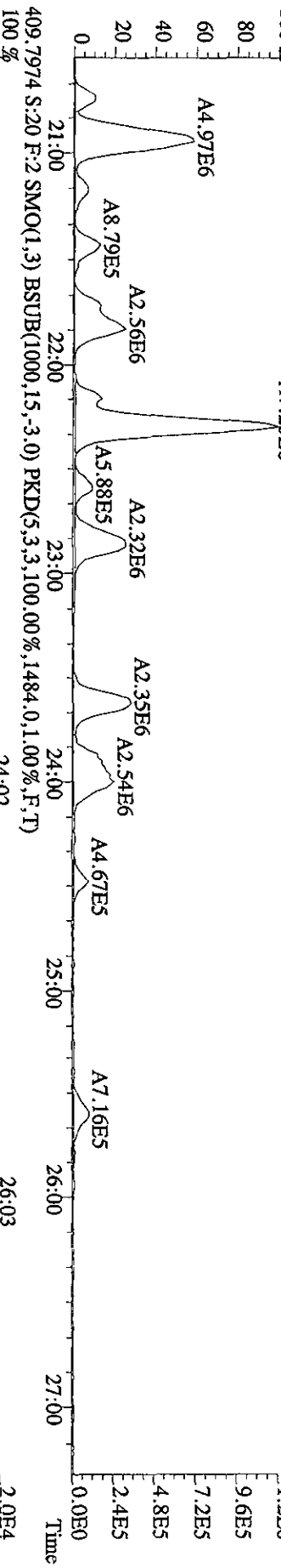
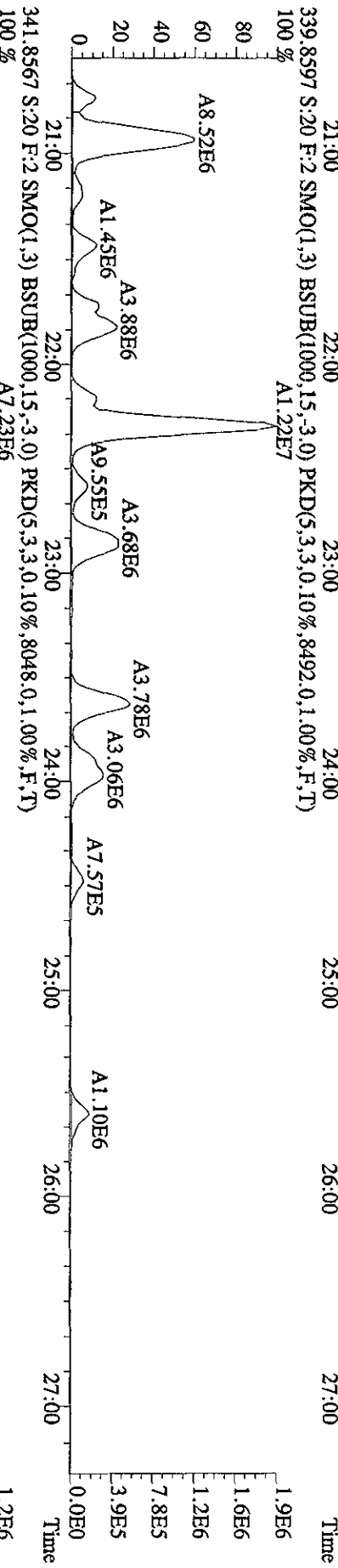
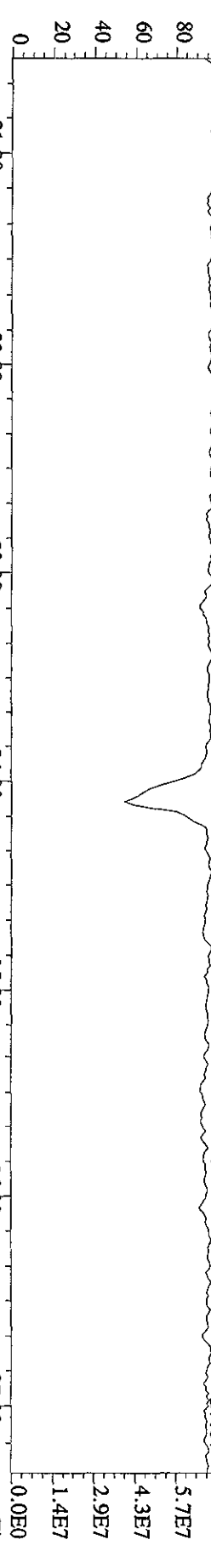
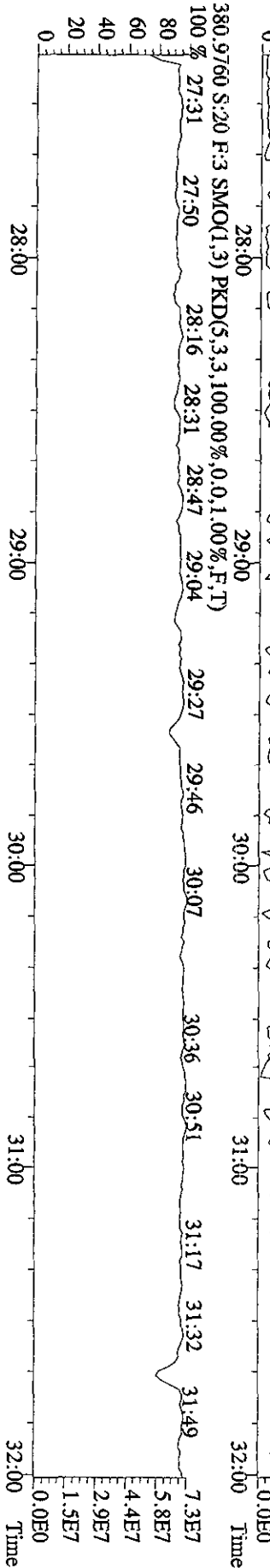
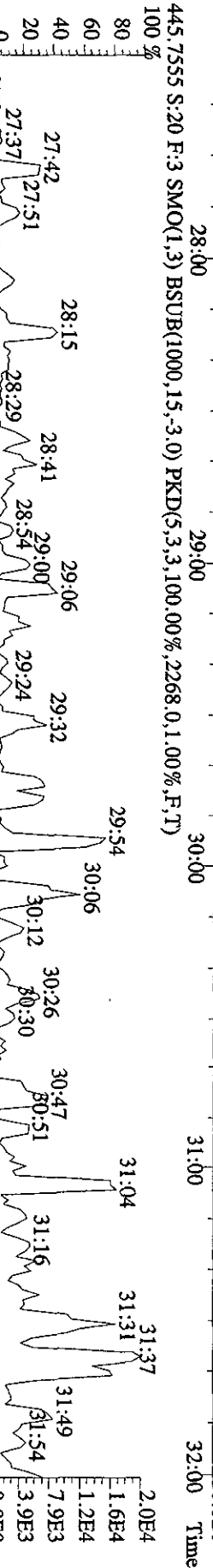
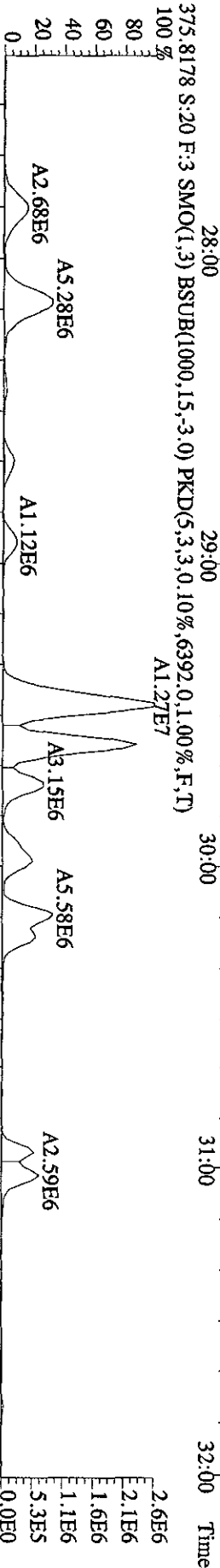
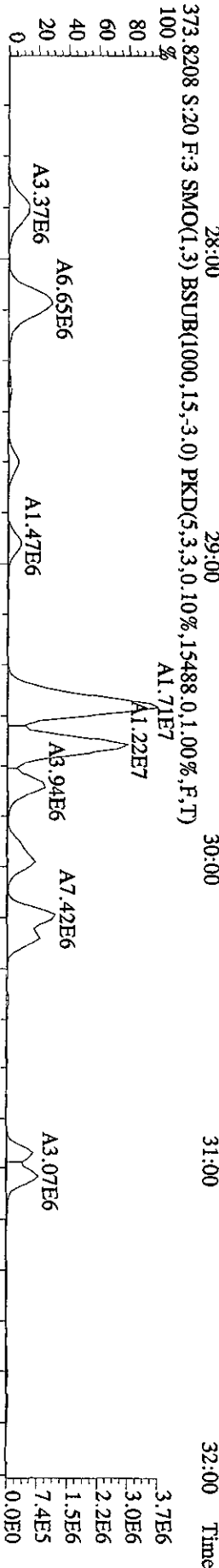
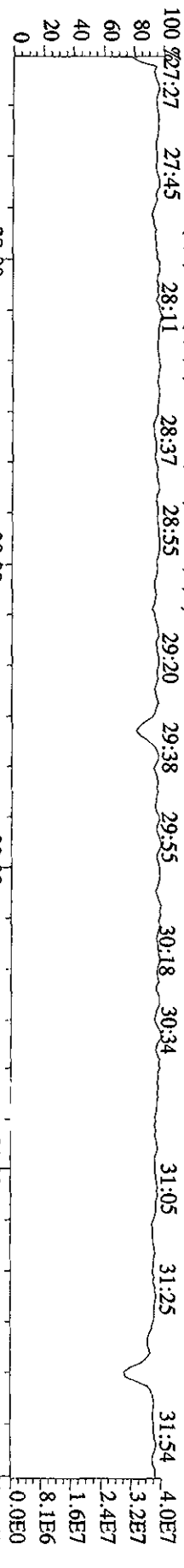
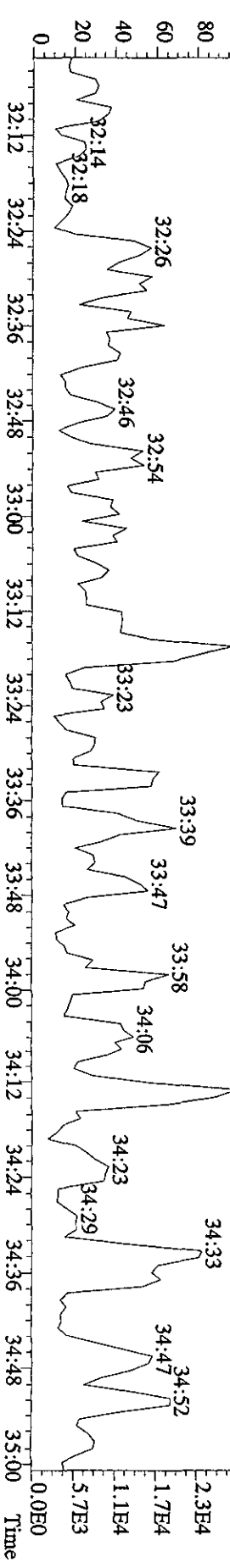
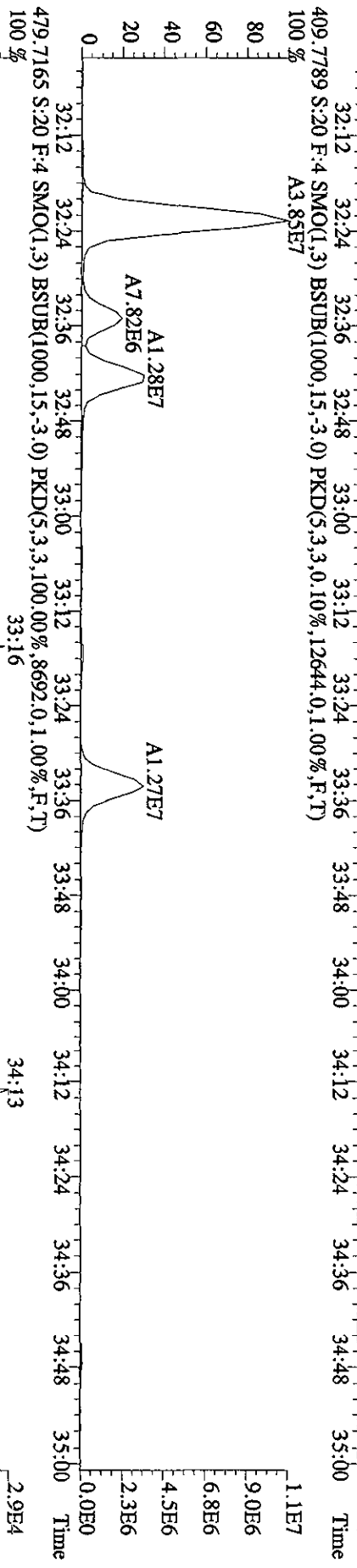
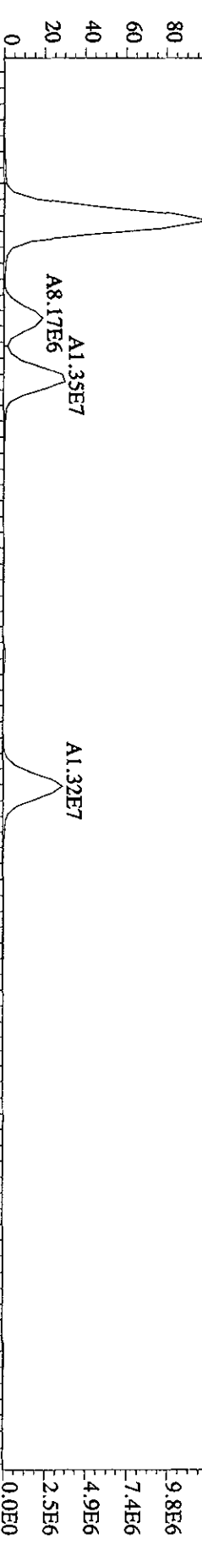
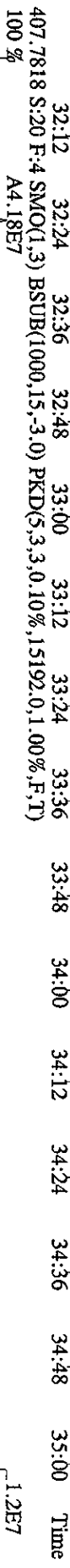
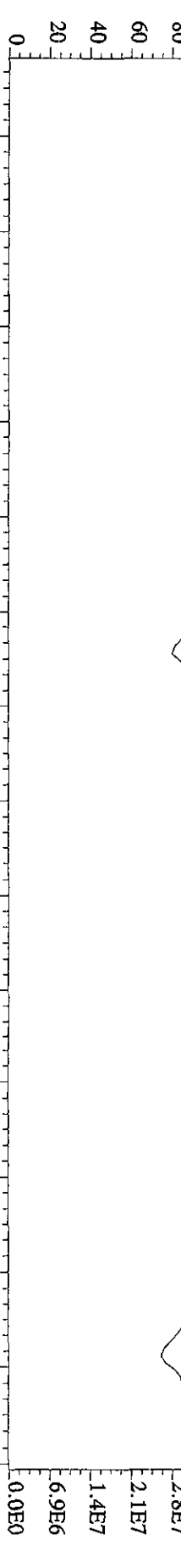


Fig: 27SE101D5 #1-422 Acq: 27-SEP-2010 23:04:49 GC EI + Voltage SIR 70SE  
 Sample#20 Text: L7DQM-1-AA : G01230491-3 Exp: DIOXINRES  
 342.9792 S:20 F:2 SMO(1,3) PKD(5,3,100.00%,0.0,1.00%,F,T)  
 100 % 20:42 21:28 22:04 22:27 22:53 23:23 23:47 24:26 24:48 25:22 25:46 26:12 26:45 27:07









File:27SE101D5 #1-196 Acq:27-SEP-2010 23:04:49 GC EI+ Voltage SIR 70SE

Sample#20 Text:L7DQM-1-AA :G0I230491-3 Exp.:DIOXINRES

454.9728 S:20 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100% 35:11 35:24

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35:11 35:24

1.9E7

1.7E7

1.5E7

1.3E7

1.1E7

9.4E6

7.5E6

5.6E6

3.8E6

1.9E6

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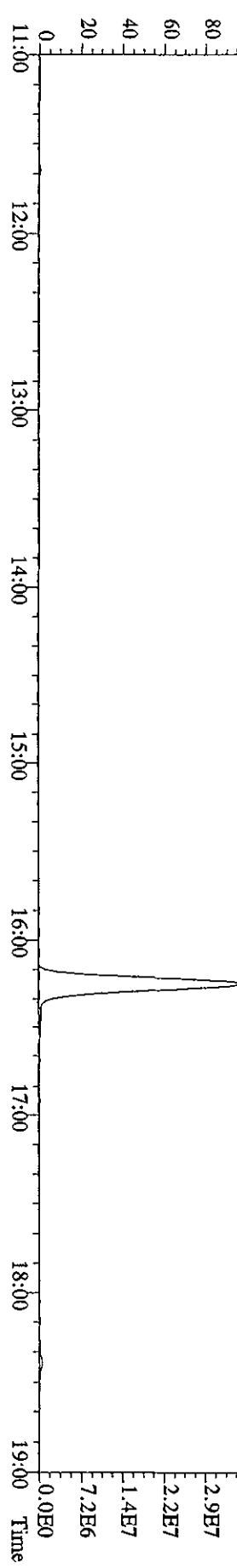
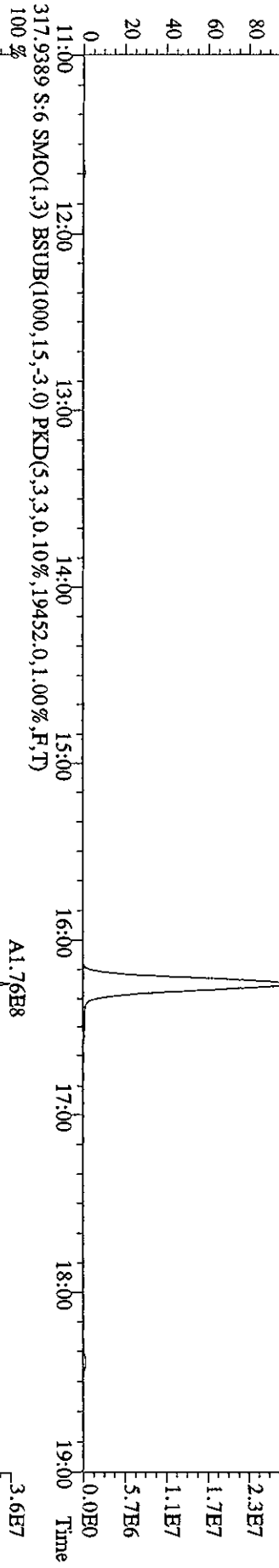
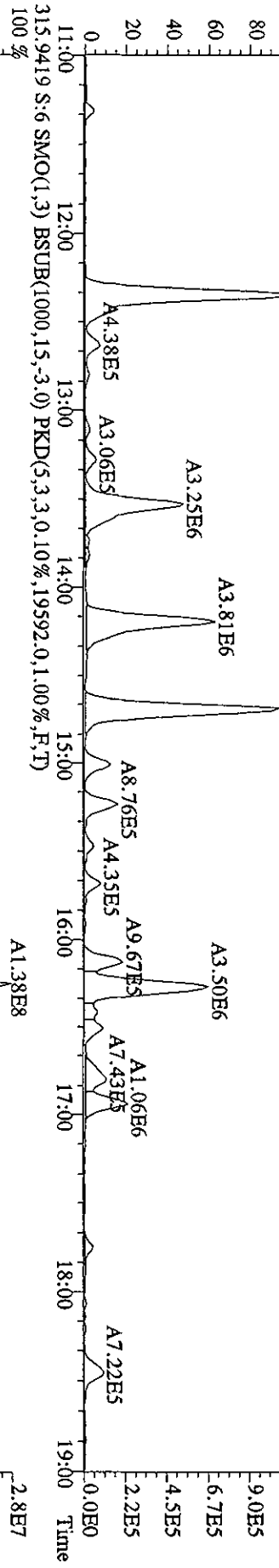
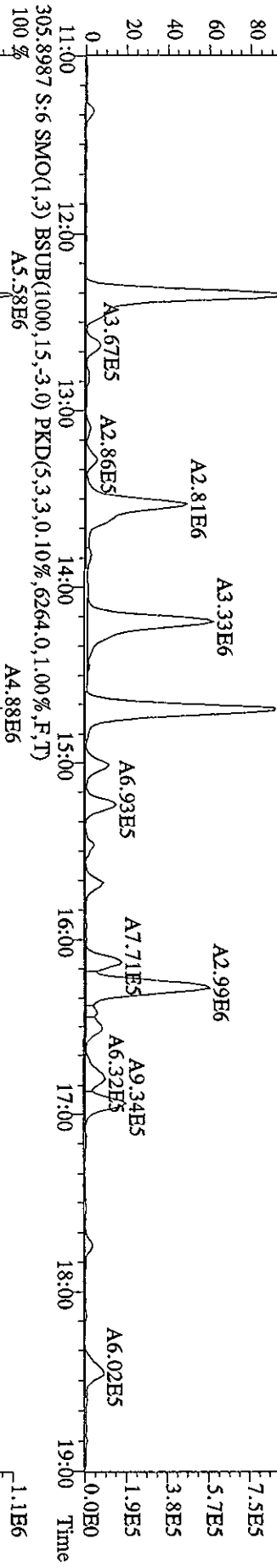
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Run text: L7DQM-1-AA Sample text: L7DQM-1-AA :G0I230491-3  
 Run #8 Filename: 29SE105D2 S: 6 I: 1 Results: 29SE105D2DB225AIR  
 Acquired: 29-SEP-10 12:07:15 Processed: 29-SEP-10 13:11:32  
 Run: 29SE105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2R  
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

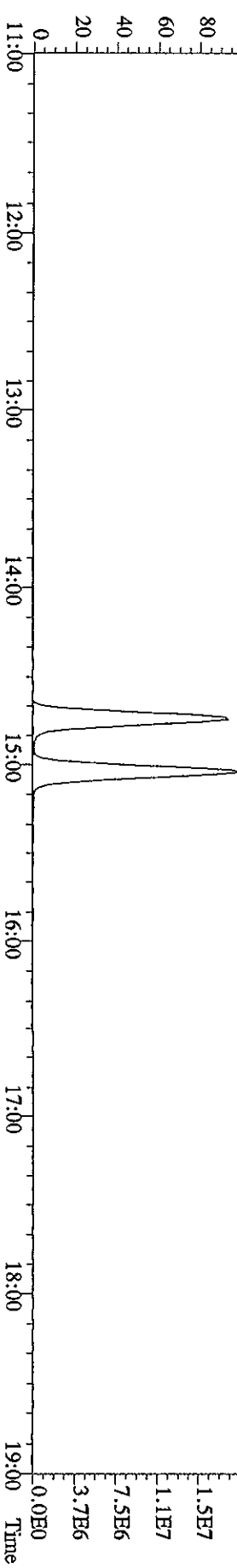
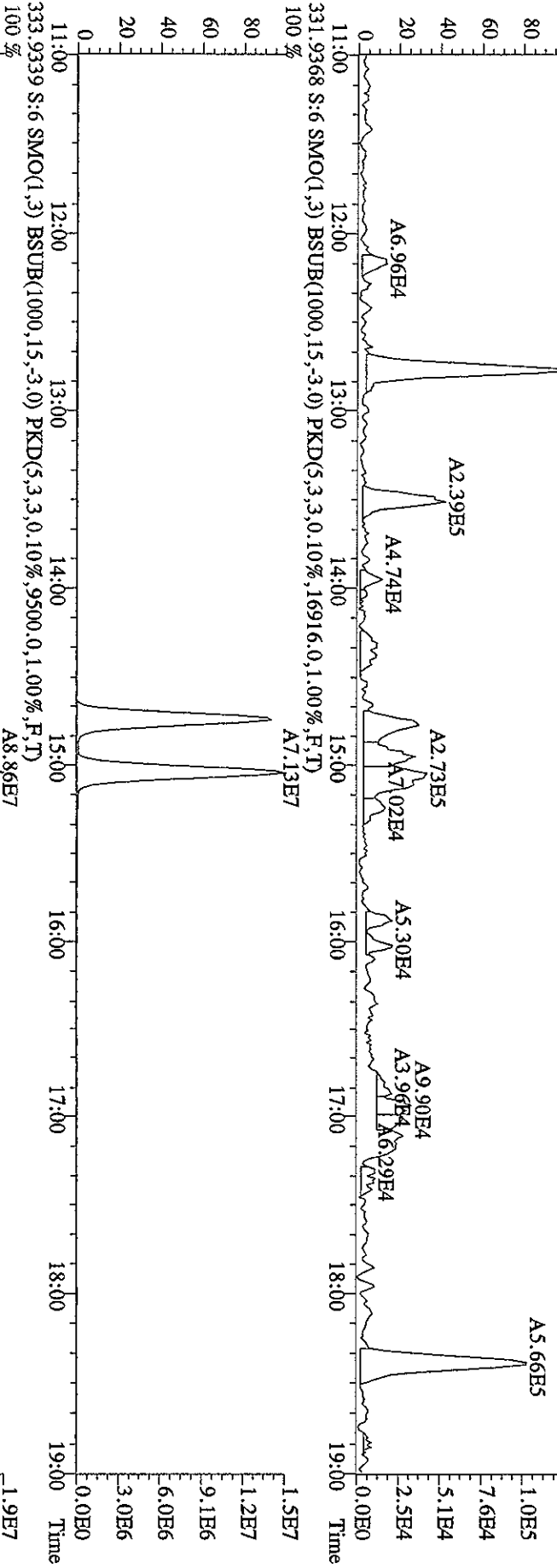
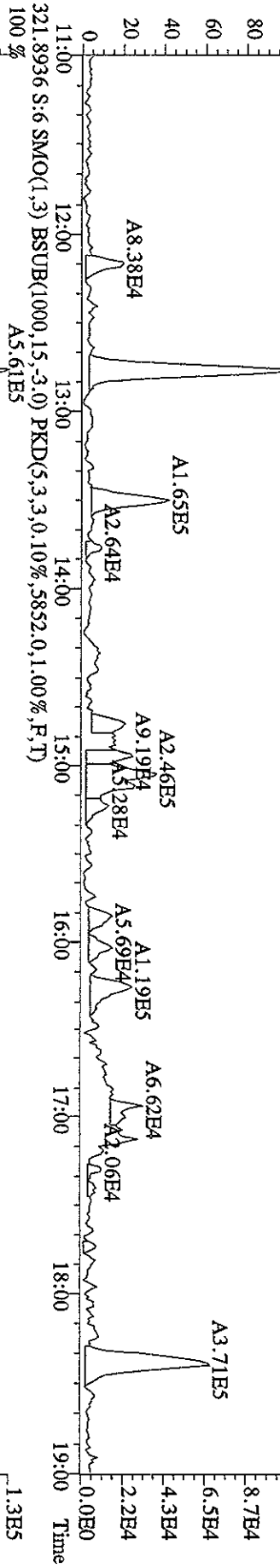
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	159897168	0.80 y	15:03	-	270.783	-	-	n
13C-2,3,7,8-TCDF	313725136	0.78 y	16:15	2.11	3717.128	6.567	92.9	n
2,3,7,8-TCDF	6482695	0.85 y	16:17	1.06	78.262 /	2.039 /	-	n
13C-2,3,7,8-TCDD	152926080	0.79 y	14:45	0.88	4324.104	10.603	108.1	n
2,3,7,8-TCDD	174446	0.38 n	14:46	1.64	2.789	2.560	-	n
37Cl-2,3,7,8-TCDD	97745160	1.00 y	14:46	1.46	1753.353	4.827	109.6	n

of  
09-30-10

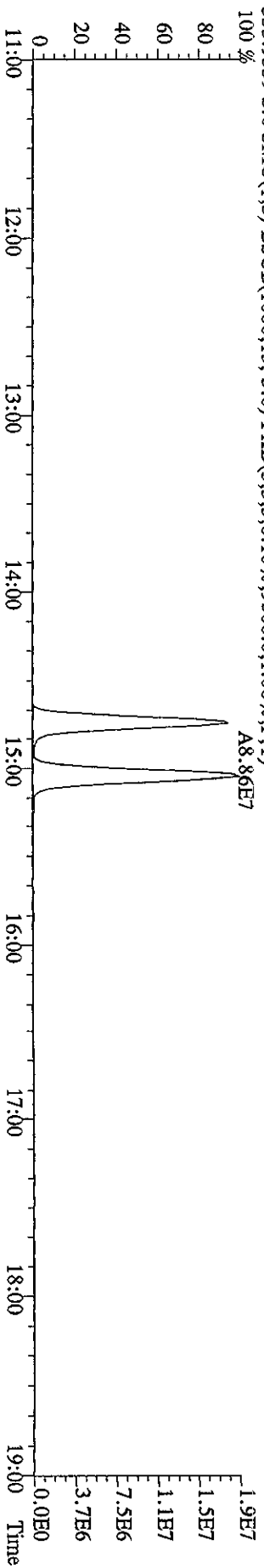
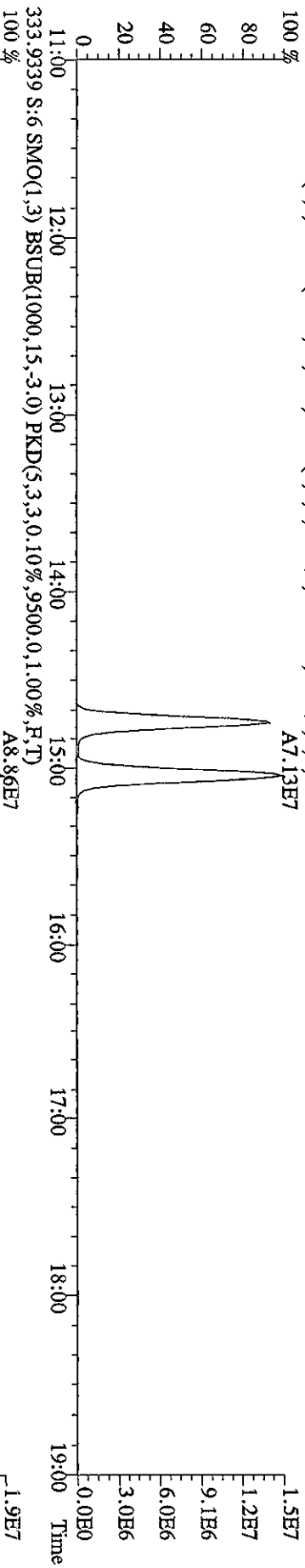
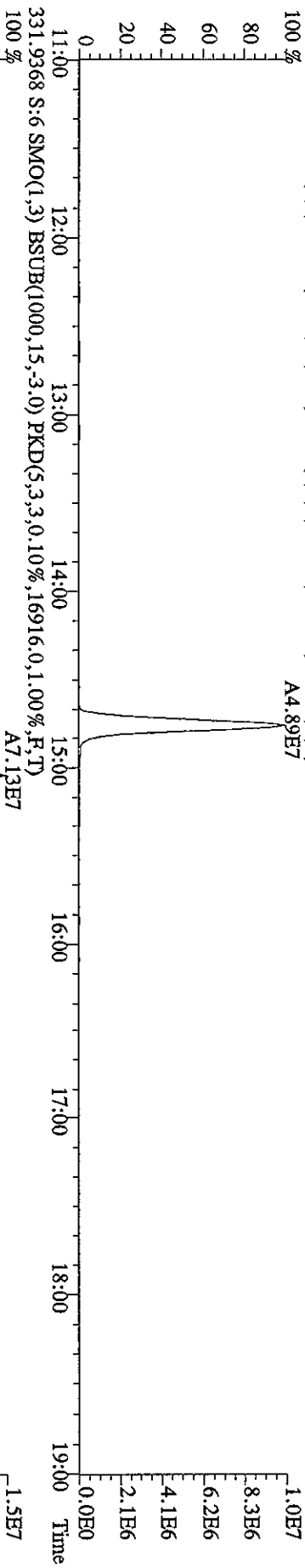
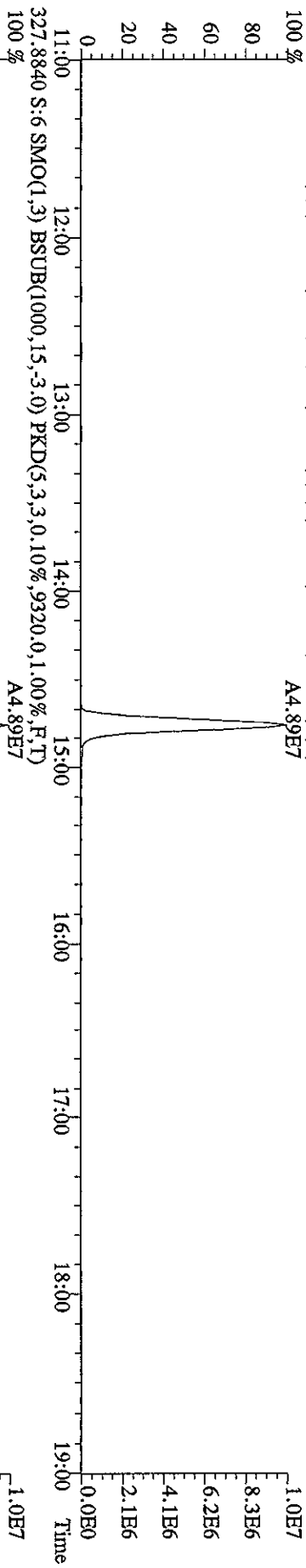
File:29SE105D2 #1-1241 Acq:29-SEP-2010 12:07:15 GC EI+ Voltage SIR 70SE  
 Sample#6 Text:L7DQM-1-AA :G01230491-3 Exp:DB25RES  
 303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5256.0,1.00%,F,T)  
 100% A4.40E6



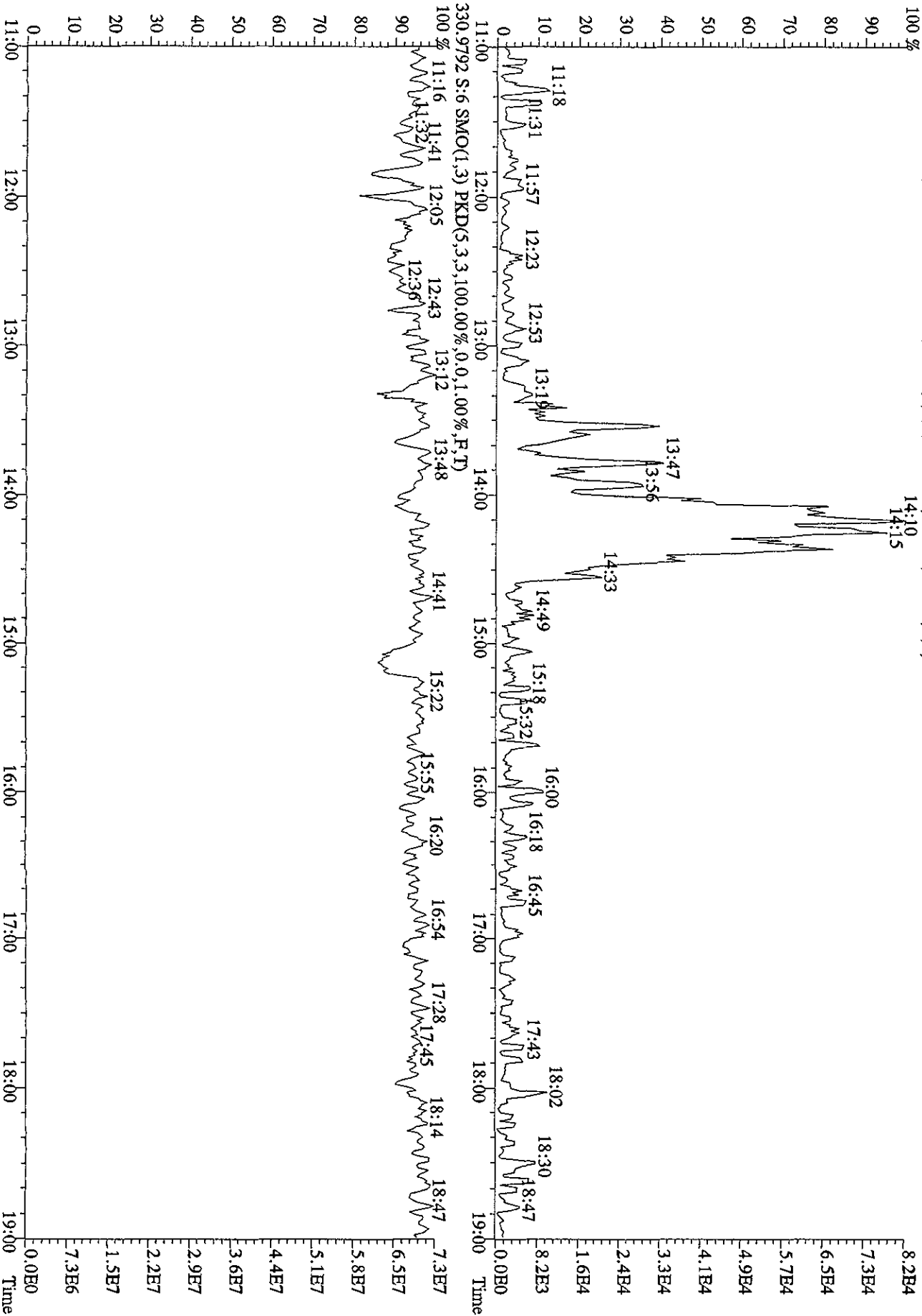
File: 29SE105D2 #1-1241 Acq: 29-SEP-2010 12:07:15 GC BI+ Voltage SIR 70SE  
 Sample#6 Text: L7DOM-1-AA :G01230491-3 Exp: DB225RES  
 319.8965 S: 6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5240.0,1.00%,F,T)  
 100%



File:29SEI05D2 #1-1241 Acq:29-SEP-2010 12:07:15 GC EI+ Voltage SIR 70SE  
Sample#6 Text:L7DQM-1-AA :G0I230491-3 Exp:DB25RES  
327.8840 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,9320,0,1,00%,F,T)  
100% A4.89E7



File: 29SE10SD2 #1-1241 Acq: 29-SEP-2010 12:07:15 GC FI+ Voltage SIR 70SE  
 Sample#6 Text: L7DQM-1-4A : G0I230491-3 Exp: DB225RES  
 375.8364 S:6 SMO(1,3) BSUB(1000,15,-3:0) PKD(5,3,3,100,00%,1720,0,1,00%,F,T)



Run text: L7DQP-1-AA      Sample text: L7DQP-1-AA :G0I230491-5  
 Run #11 Filename: 27SE101D5    S: 21    I: 1      Results: 27SE101D5TO9os  
 Acquired: 27-SEP-10    23:47:47      Processed: 28-SEP-10    09:22:55  
 Run: 27SE101D5      Analyte: TO9      Cal: TO90914101D5  
 Factor 1:1600.000      Factor 2:20.000      Sample size: 0.50    Sample

*of*  
*09-29-10*

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M	
13C-1,2,3,4-TCDD	469306000	0.83	y	17:44	-	268.609	-	-	n
13C-2,3,7,8-TCDF	698297000	0.82	y	17:13	1.56	3807.728	1.422	95.2	n
2,3,7,8-TCDF	2062288	0.86	y	17:15	0.98	<del>12.008</del>	0.543	-	n
Total TCDF	8058766	1.50	n	14:47	0.98	<del>46.925</del> 46.185	0.543	-	n
13C-2,3,7,8-TCDD	405589000	0.80	y	17:56	0.92	3753.898	2.900	93.8	n
2,3,7,8-TCDD	181361	0.84	y	17:57	1.03	1.734	1.145	-	n
Total TCDD	511257	0.66	y	16:01	1.03	<del>4.887</del> 3.66	1.145	-	n
37Cl-2,3,7,8-TCDD	227928000	1.00	y	17:57	1.23	1833.095	1.327	114.6	n
13C-1,2,3,7,8-PeCDF	511230000	1.62	y	22:16	1.05	4139.753	2.451	103.5	n
1,2,3,7,8-PeCDF	1322547	1.32	y	22:18	1.09	9.475	1.096	-	y
2,3,4,7,8-PeCDF	514132	1.74	y	23:37	1.02	3.953	1.176	-	n
Total F2 PeCDF	4909590	2.47	n	20:44	1.05	<del>36.219</del> 28.13	1.135	-	y
Total F1 PeCDF	589043	0.49	n	15:17	1.05	<del>4.369</del>	<del>1.067</del>	-	n
13C-1,2,3,7,8-PeCDD	273775000	1.63	y	24:18	0.56	4160.432	1.488	104.0	n
1,2,3,7,8-PeCDD	83842	1.77	y	24:20	1.07	<del>1.144</del>	1.420	-	n
Total PeCDD	1001224	0.69	n	21:09	1.07	<del>13.667</del> <del>8.114</del>	<del>1.420</del> 6.72	-	n
13C-1,2,3,7,8,9-HxCDD	420502000	1.28	y	30:46	-	256.231	-	-	n
13C-1,2,3,4,7,8-HxCDF	316586000	0.52	y	29:27	0.99	3039.331	0.869	76.0	n
1,2,3,4,7,8-HxCDF	1637689	1.26	y	29:28	1.26	16.410	1.303	-	y
1,2,3,6,7,8-HxCDF	1650214	1.16	y	29:36	1.53	13.618	1.073	-	y
2,3,4,6,7,8-HxCDF	415654	1.05	n	30:14	1.41	3.732	1.168	-	y
1,2,3,7,8,9-HxCDF	426038	1.17	y	30:58	1.40	3.856	1.177	-	y
Total HxCDF	8546699	1.27	y	27:50	1.40	<del>77.510</del> 75.12	1.175	-	y
13C-1,2,3,6,7,8-HxCDD	263095000	1.29	y	30:28	0.74	3384.334	1.548	84.6	n
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	1.12	-	1.206	-	n
1,2,3,6,7,8-HxCDD	92004	1.57	n	30:29	1.14	1.226	<del>1.184</del>	-	n
1,2,3,7,8,9-HxCDD	121151	0.94	n	30:46	1.35	1.361	<del>0.998</del>	-	n
Total HxCDD	902364	0.86	n	28:51	1.20	<del>11.283</del> 4.69	1.121	-	n
13C-1,2,3,4,6,7,8-HpCDF	298125100	0.45	y	32:22	0.96	2966.094	5.450	74.2	n
1,2,3,4,6,7,8-HpCDF	5363180	1.14	y	32:22	1.41	51.102	1.699	-	n
1,2,3,4,7,8,9-HpCDF	1573952	1.28	n	33:34	1.24	17.089	1.936	-	n
Total HpCDF	10483000	1.14	y	32:22	1.32	<del>104.179</del> 97.39	1.810	-	n
13C-1,2,3,4,6,7,8-HpCDD	258214000	1.06	y	33:14	0.71	3448.819	3.700	86.2	n
1,2,3,4,6,7,8-HpCDD	341172	0.77	n	33:15	1.13	4.659	1.293	-	y
Total HpCDD	1396117	2.79	n	32:22	1.13	<del>19.066</del> 10.44	1.293	-	y
13C-OCDD	244465000	0.92	y	35:49	0.35	6593.589	2.943	82.4	n
OCDF	6768870	0.86	y	35:56	2.12	104.608	1.755	-	n

OCDD

735374 1.06 n 35:50 1.37

17.551 JQ

1.766

- n



Run Text: L7DQP-1-AA

Sample text: L7DQP-1-AA :G0I230491-5

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:11  
 Run: 11 File: 27SE101D5 S:21 Acq:27-SEP-10 23:47:47  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 23.46 of which 6.00 named and 17.46 unnamed  
 Conc: 46.92 of which 12.01 named and 34.92 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:47	1.50 n	<del>0.31</del>	45420 30373	3.8 2.4	y n	n n
	2	15:34	0.72 y	9.30	671585 926389	47.5 52.9	y y	n n
	3	15:49	0.78 y	2.28	171476 219914	6.8 7.5	y y	n n
	4	16:04	0.60 n	1.38	103007 172341	5.4 8.0	y y	n n
	5	16:20	0.63 n	5.03	375764 595988	24.3 33.3	y y	n n
	6	16:35	0.75 y	6.69	492716 655911	31.2 20.5	y y	n n
	7	16:52	0.94 n	7.19	659403 697995	40.9 38.7	y y	n n
2,3,7,8-TCDF	8	17:15	0.86 y	12.01	951668 1110620	55.3 53.4	y y	n n
	9	17:40	0.38 n	1.41	105194 273563	8.2 11.8	y y	n n
	10	18:08	0.47 n	<del>0.43</del>	31900 68491	2.2 3.9	n y	n n
	11	19:04	0.70 y	0.89	63010 90576	4.8 5.1	y y	n n

Run Text: L7DQP-1-AA

Sample text: L7DQP-1-AA :G0I230491-5

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:4  
 Run: 11 File: 27SE101D5 S:21 Acq:27-SEP-10 23:47:47  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D7

Amount: 2.44 of which 0.87 named and 1.58 unnamed  
 Conc: 4.89 of which 1.73 named and 3.15 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	16:01	0.66 y	1.93	80415 121369	3.8 5.6	y	n
	2	17:13	2.63 n	<del>0.94</del>	145684 55341	7.1 2.7	y	n
2,3,7,8-TCDD	3	17:57	0.84 y	1.73	82868 98493	5.7 5.1	y	n
	4	20:05	1.24 n	<del>0.29</del>	21090 17039	1.4 1.2	n	n

Run Text: L7DQP-1-AA

Sample text: L7DQP-1-AA :G0I230491-5

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:10  
 Run: 11 File: 27SE101D5 S:21 Acq:27-SEP-10 23:47:47  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D7

Amount: 17.63 of which 6.86 named and 10.76 unnamed  
 Conc: 35.25 of which 13.73 named and 21.53 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:44	2.47	n	0.53	69525	3.3	y n
						28185	1.8	n n
	2	20:56	1.75	y	6.89	591023	21.3	y n
						338121	10.1	y n
	3	21:09	1.80	n	0.72	68198	3.0	n n
						37931	1.3	n n
	4	21:26	1.10	n	1.27	103793	4.3	y n
						94220	3.0	y n
	5	21:47	2.62	n	2.54	350619	10.7	y n
						134047	4.4	y n
1,2,3,7,8-PeCDF	6	22:18	1.39	y	9.77	793296	28.2	y n
						570832	18.1	y n
	7	22:35	1.52	y	0.80	64860	2.8	n n
						42691	1.9	n n
	8	22:51	1.95	n	2.75	282691	9.3	y n
						145227	4.7	y n
2,3,4,7,8-PeCDF	9	23:37	1.74	y	3.95	326288	11.2	y n
						187844	5.0	y n
	10	23:59	0.91	n	6.04	495036	12.9	y n
						542897	14.7	y n

*See 3A*

Run Text: L7DQP-1-AA

Sample text: L7DQP-1-AA :G0I230491-5

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? yes #Hom:11  
 Run: 11 File: 27SE101D5 S:21 Acq:27-SEP-10 23:47:47  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 18.11 of which 6.71 named and 11.40 unnamed  
 Conc: 36.22 of which 13.43 named and 22.79 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:44	2.47	<del>0.53</del>	69525 28185	3.3 1.8	y n	n n
	2	20:56	1.75	6.89	591023 338121	21.3 10.1	y y	n n
	3	21:09	1.80	<del>0.72</del>	68198 37931	3.0 1.3	n n	n n
	4	21:26	1.10	1.27	103794 94220	4.3 3.0	y y	n n
	5	21:47	2.62	2.54	350619 134047	10.7 4.4	y y	n n
	6	22:10	1.50	1.26	102289 68009	5.1 3.3	y y	y y
1,2,3,7,8-PeCDF	7	22:18	1.32	9.47	753216 569331	28.8 18.7	y y	y y
	8	22:35	1.52	<del>0.80</del>	64860 42692	2.8 1.9	n n	n n
	9	22:51	1.95	2.75	282691 145227	9.3 4.7	y y	n n
2,3,4,7,8-PeCDF	10	23:37	1.74	3.95	326288 187844	11.2 5.0	y y	n n
	11	23:59	0.91	<del>6.04</del>	495036 542895	12.9 14.7	y y	n n

*DP*

*(37)*

Run Text: L7DQP-1-AA

Sample text: L7DQP-1-AA :G0I230491-5

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:3  
 Run: 11 File: 27SE101D5 S:21 Acq:27-SEP-10 23:47:47  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 2.18 of which \* named and 2.18 unnamed  
 Conc: 4.37 of which \* named and 4.37 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:17	0.49	<del>2.18</del>	174398	16.8	y	n
					356874	17.4	y	n
	2	17:20	0.40	<del>0.16</del>	12958	1.5	n	n
					32785	1.6	n	n
	3	18:56	0.51	<del>2.08</del>	170690	12.3	y	n
					332164	11.7	y	n

*Handwritten note:* 0.3

Run Text: L7DQP-1-AA

Sample text: L7DQP-1-AA :G0I230491-5

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:9  
 Run: 11 File: 27SE101D5 S:21 Acq:27-SEP-10 23:47:47  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 6.83 of which 0.57 named and 6.26 unnamed  
 Conc: 13.67 of which 1.14 named and 12.52 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	21:09	0.69 n	<del>0.48</del>	21263 30859	1.3 2.5	n n	n n
	2	21:33	1.01 n	<del>0.43</del>	19193 19094	1.5 2.1	n n	n n
	3	21:59	1.29 n	<del>0.38</del>	17051 13182	1.6 2.0	n n	n n
	4	22:16	2.68 n	<del>1.18</del>	90948 33949	5.9 2.8	y n	n n
	5	22:53	1.32 n	1.72	76542 58151	4.1 4.2	y y	n n
	6	23:35	6.25 n	<del>0.58</del>	104388 16706	5.0 1.8	y n	n n
	7	24:00	2.96 n	6.72	572275 193169	27.9 14.8	y y	n n
	8	24:14	1.48 y	<del>1.03</del>	44847 30250	2.6 2.3	n n	n n
1,2,3,7,8-PeCDD	9	24:20	1.77 y	<del>1.14</del>	53592 30250	2.6 2.3	n n	n n

Run Text: L7DQP-1-AA

Sample text: L7DQP-1-AA :G0I230491-5

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:12  
 Run: 11 File: 27SE101D5 S:21 Acq:27-SEP-10 23:47:47  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 38.48 of which 22.69 named and 15.79 unnamed  
 Conc: 76.96 of which 45.38 named and 31.57 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	27:50	1.27 y	4.52	279481 220477	7.2 7.3	y	n
	2	28:10	1.28 y	8.43	524490 409131	13.7 15.5	y	n
	3	28:40	0.50 n	0.88	54227 108990	2.3 3.6	n	n
	4	28:55	1.50 n	2.35	173719 115935	6.2 4.1	y	n
1,2,3,4,7,8-HxCDF	5	29:28	1.20 y	21.24	1157460 962773	43.4 38.4	y	n
1,2,3,6,7,8-HxCDF	6	29:36	1.17 y	13.36	873106 745665	34.5 33.7	y	n
	7	29:44	1.23 y	4.75	289529 235969	10.9 11.4	y	n
	8	29:59	1.06 y	4.50	256134 242389	7.3 9.7	y	n
	9	30:09	0.59 n	4.64	284407 478124	14.0 13.0	y	n
2,3,4,6,7,8-HxCDF	10	30:14	0.48 n	3.73	230094 478124	10.5 13.0	y	n
1,2,3,7,8,9-HxCDF	11	31:01	1.09 y	7.05	406121 372702	9.7 10.3	y	n
	12	31:41	0.66 n	1.51	92361 140526	5.2 4.9	y	n

*See GA*

Run Text: L7DQP-1-AA

Sample text: L7DQP-1-AA :G0I230491-5

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? yes #Hom:14  
 Run: 11 File: 27SE101D5 S:21 Acq:27-SEP-10 23:47:47  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 38.76 of which 18.81 named and 19.95 unnamed  
 Conc: 77.51 of which 37.61 named and 39.90 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	27:50	1.27	y 4.52	279481 220477	7.2 7.3	y	n
	2	28:10	1.28	y 8.43	524490 409131	13.7 15.5	y	n
	3	28:40	0.50	n <del>0.98</del>	54227 108990	2.3 3.6	n	n
	4	28:55	1.50	n 2.35	173719 115935	6.2 4.1	y	n
	5	29:25	0.99	n 4.29	262802 264339	19.2 29.3	y	y
1,2,3,4,7,8-HxCDF	6	29:28	1.26	y 16.41	911728 725961	43.7 38.9	y	y
1,2,3,6,7,8-HxCDF	7	29:36	1.16	y 13.62	884521 765693	34.8 34.2	y	y
	8	29:44	1.23	y 4.75	289529 235969	10.9 11.4	y	n
	9	29:59	1.06	y 4.50	256134 242389	7.3 9.7	y	n
	10	30:09	1.06	y 4.99	284407 268272	14.0 13.4	y	n
2,3,4,6,7,8-HxCDF	11	30:14	1.05	n 3.73	230094 219661	10.5 10.5	y	n
1,2,3,7,8,9-HxCDF	12	30:58	1.17	y 3.86	230088 195950	10.1 10.9	y	y
	13	31:01	1.17	y 3.68	219524 188062	10.2 11.2	y	y
	14	31:41	0.66	n 1.51	92361 140526	5.2 4.9	y	n

*0.3*

*GA*



Run Text: L7DQP-1-AA

Sample text: L7DQP-1-AA :G0I230491-5

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:9  
 Run: 11 File: 27SE101D5 S:21 Acq:27-SEP-10 23:47:47  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 5.64 of which 1.29 named and 4.35 unnamed  
 Conc: 11.28 of which 2.59 named and 8.70 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	28:51	0.86	<del>0.45</del>	19679 23008	1.6 1.2	n n	n n
	2	29:28	0.91	2.67	117087 128602	6.3 3.9	y y	n n
	3	29:47	1.36	2.02	92271 67910	6.6 4.8	y y	n n
	4	30:13	5.65	<del>0.70</del>	139381 24654	10.5 2.0	y n	n n
1,2,3,6,7,8-HxCDD	5	30:29	1.57	<del>1.23</del>	64382 41073	3.8 2.8	y n	n n
1,2,3,7,8,9-HxCDD	6	30:46	0.94	<del>1.36</del>	67066 70985	4.5 3.2	y y	n n
	7	30:57	2.79	<del>0.85</del>	83700 30046	5.5 2.0	y n	n n
	8	31:41	1.06	<del>1.89</del>	64923 61378	5.1 4.3	y y	n n
	9	31:48	1.03	<del>0.42</del>	18346 17746	0.8 1.2	n n	n n

Run Text: L7DQP-1-AA

Sample text: L7DQP-1-AA :G0I230491-5

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:7  
 Run: 11 File: 27SE101D5 S:21 Acq:27-SEP-10 23:47:47  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 52.09 of which 34.10 named and 17.99 unnamed  
 Conc: 104.18 of which 68.19 named and 35.99 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	32:22	1.14	y ✓	51.10	2862710	89.6	y n
						2500470	95.5	y n
	2	32:36	0.91	y ✓	11.05	520298	15.3	y n
						568895	19.1	y n
	3	32:43	1.08	y ✓	18.15	930451	27.3	y n
					858082	30.5	y n	
4	32:49	3.80	n	<del>0.34</del>	63048	1.5	n n	
					16596	0.9	n n	
5	33:18	0.81	n	<del>4.01</del>	201609	6.8	y n	
					249635	9.8	y n	
1,2,3,4,7,8,9-HpCDF	6	33:34	1.28	n ✓	17.09	988837	27.9	y n
						771545	26.3	y n
7	34:47	0.70	n	2.42	121753	4.3	y n	
					174357	7.2	y n	

Run Text: L7DQP-1-AA

Sample text: L7DQP-1-AA :G0I230491-5

Name: Total HpCDD

F:4 Mass: 423.777 425.774 Mod? no #Hom:7

Run: 11 File: 27SE101D5 S:21 Acq:27-SEP-10 23:47:47

Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount:	13.02 of which	5.81 named and	7.20 unnamed
Conc:	26.03 of which	11.63 named and	14.41 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:22	2.79 n	1.08	107909 38627	6.9 2.6	y n	n n
	2	32:38	1.17 y	5.78	228186 194793	14.1 11.8	y y	n n
	3	33:00	0.53 n	0.42	15846 30105	1.2 1.5	n n	n n
1,2,3,4,6,7,8-HpCDD	4	33:17	1.12 y	11.63	449308 402138	19.2 16.7	y y	n n
	5	33:34	1.56 n	1.46	81642 52232	5.5 3.3	y y	n n
	6	33:43	1.10 y	0.87	33557 30435	1.9 1.2	n n	n n
	7	34:47	1.20 y	4.80	191400 160140	11.5 9.8	y y	n n

*See  
AA*

Run Text: L7DQP-1-AA

Sample text: L7DQP-1-AA :G0I230491-5

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? yes #Hom:7  
 Run: 11 File: 27SE101D5 S:21 Acq:27-SEP-10 23:47:47  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5

Amount: 9.53 of which 2.33 named and 7.20 unnamed  
 Conc: 19.07 of which 4.66 named and 14.41 unnamed

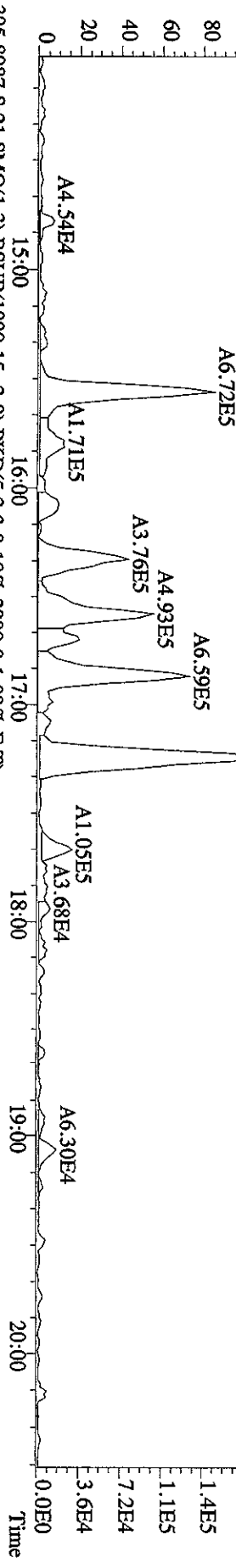
Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	32:22	2.79	n	<del>1.08</del>	107909 38627	6.9 2.6	y n	n n
	2	32:38	1.17	y	5.78	228186 194793	14.1 11.8	y y	n n
	3	33:00	0.53	n	<del>0.42</del>	15846 30105	1.2 1.5	n n	n n
1,2,3,4,6,7,8-HpCDD	4	33:15	0.77	n	4.66	173931 226474	13.7 17.5	y y	y y
	5	33:34	1.56	n	1.46	81642 52232	5.5 3.3	y y	n n
	6	33:43	1.10	y	0.87	33558 30435	1.9 1.2	n n	n n
	7	34:47	1.20	y	4.80	191400 160140	11.5 9.8	y y	n n

Run text: L7DQP-1-AA Sample text: L7DQP-1-AA :G0I230491-5  
 Run #11 Filename: 27SE101D5 S: 21 I: 1 Results: 27SE101D5TO9  
 Acquired: 27-SEP-10 23:47:47 Processed: 28-SEP-10 09:22:55  
 Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5  
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000Sample

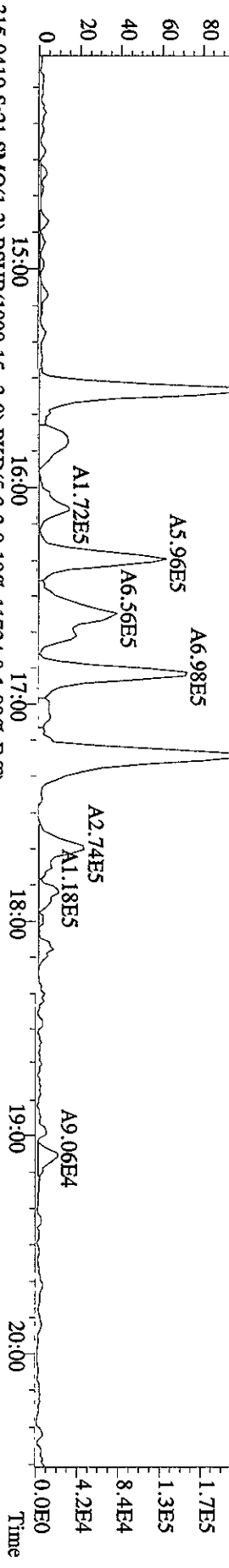
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	469306000	0.83 y	17:44	-	268.61	-	-	n
13C-2,3,7,8-TCDF	698297000	0.82 y	17:13	1.56	3807.73	1.42	95.2	n
2,3,7,8-TCDF	2062288	0.86 y	17:15	0.98	12.01	0.54	-	n
Total TCDF	8058766	1.50 n	14:47	0.98	46.92	0.54	-	n
13C-2,3,7,8-TCDD	405589000	0.80 y	17:56	0.92	3753.90	2.90	93.8	n
2,3,7,8-TCDD	181361	0.84 y	17:57	1.03	1.73	1.15	-	n
Total TCDD	511257	0.66 y	16:01	1.03	4.89	1.15	-	n
37Cl-2,3,7,8-TCDD	227928000	1.00 y	17:57	1.23	1833.09	1.33	114.6	n
13C-1,2,3,7,8-PeCDF	511230000	1.62 y	22:16	1.05	4139.75	2.45	103.5	n
1,2,3,7,8-PeCDF	1364128	1.39 y	22:18	1.09	9.77	1.10	-	n
2,3,4,7,8-PeCDF	514132	1.74 y	23:37	1.02	3.95	1.18	-	n
Total F2 PeCDF	4780871	2.47 n	20:44	1.05	35.25	1.13	-	n
Total F1 PeCDF	589043	0.49 n	15:17	1.05	4.37	1.07	-	n
13C-1,2,3,7,8-PeCDD	273775000	1.63 y	24:18	0.56	4160.43	1.49	104.0	n
1,2,3,7,8-PeCDD	83842	1.77 y	24:20	1.07	1.14	1.42	-	n
Total PeCDD	1001224	0.69 n	21:09	1.07	13.67	1.42	-	n
13C-1,2,3,7,8,9-HxCDD	420502000	1.28 y	30:46	-	256.23	-	-	n
13C-1,2,3,4,7,8-HxCDF	316586000	0.52 y	29:27	0.99	3039.33	0.87	76.0	n
1,2,3,4,7,8-HxCDF	2120233	1.20 y	29:28	1.26	21.24	1.30	-	n
1,2,3,6,7,8-HxCDF	1618771	1.17 y	29:36	1.53	13.36	1.07	-	n
2,3,4,6,7,8-HxCDF	415654	0.48 n	30:14	1.41	3.73	1.17	-	n
1,2,3,7,8,9-HxCDF	778823	1.09 y	31:01	1.40	7.05	1.18	-	n
Total HxCDF	8429348	1.27 y	27:50	1.40	76.96	1.17	-	n
13C-1,2,3,6,7,8-HxCDD	263095000	1.29 y	30:28	0.74	3384.33	1.55	84.6	n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.12	*	1.21	-	n
1,2,3,6,7,8-HxCDD	92004	1.57 n	30:29	1.14	1.23	1.18	-	n
1,2,3,7,8,9-HxCDD	121151	0.94 n	30:46	1.35	1.36	1.00	-	n
Total HxCDD	902364	0.86 n	28:51	1.20	11.28	1.12	-	n
13C-1,2,3,4,6,7,8-HpCDF	298125100	0.45 y	32:22	0.96	2966.09	5.45	74.2	n
1,2,3,4,6,7,8-HpCDF	5363180	1.14 y	32:22	1.41	51.10	1.70	-	n
1,2,3,4,7,8,9-HpCDF	1573952	1.28 n	33:34	1.24	17.09	1.94	-	n
Total HpCDF	10483000	1.14 y	32:22	1.32	104.18	1.81	-	n
13C-1,2,3,4,6,7,8-HpCDD	258214000	1.06 y	33:14	0.71	3448.82	3.70	86.2	n
1,2,3,4,6,7,8-HpCDD	851446	1.12 y	33:17	1.13	11.63	1.29	-	n
Total HpCDD	1906391	2.79 n	32:22	1.13	26.03	1.29	-	n
13C-OCDD	244465000	0.92 y	35:49	0.35	6593.59	2.94	82.4	n
OCDF	6768870	0.86 y	35:56	2.12	104.61	1.75	-	n
OCDD	735374	1.06 n	35:50	1.37	17.55	1.77	-	n

File: 27SEI01D5 #1-382 Acq: 27-SEP-2010 23:47:47 GC EI+ Voltage SIR 70SE  
 Sample# 21 Text: L7DQP-1-AA :G0I230491-5 Exp: DIOXINRES

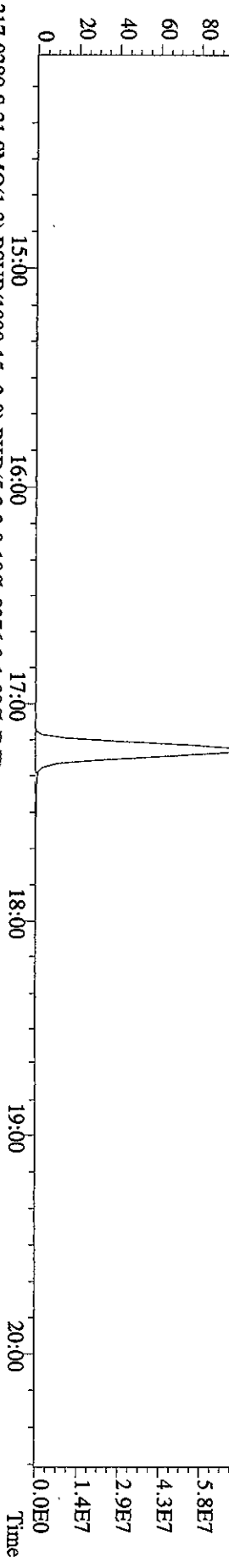
303.9016 S: 21 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3228,0,1,00%,F,T) A9.52E5



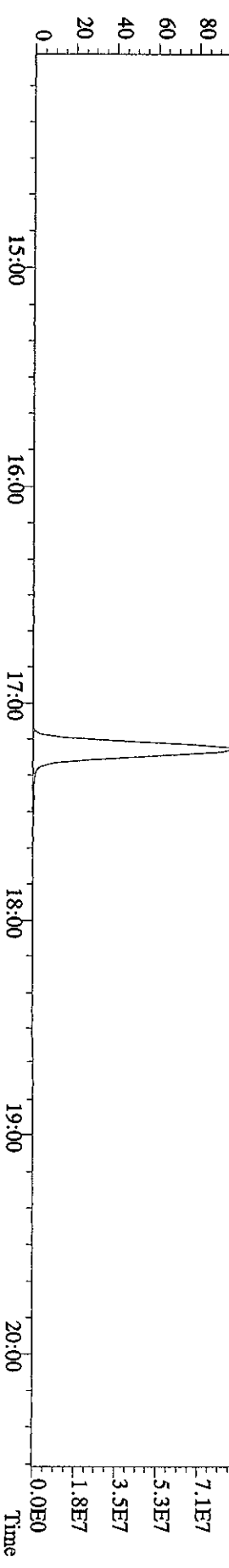
305.8987 S: 21 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3900,0,1,00%,F,T) A1.11E6



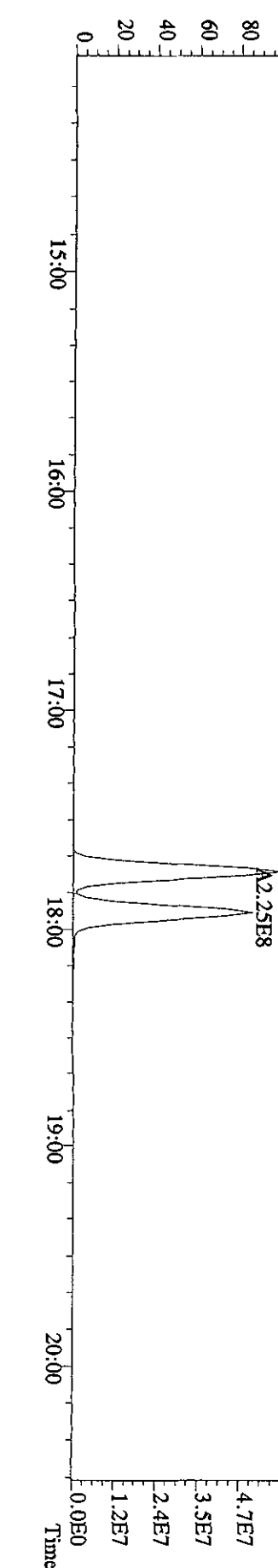
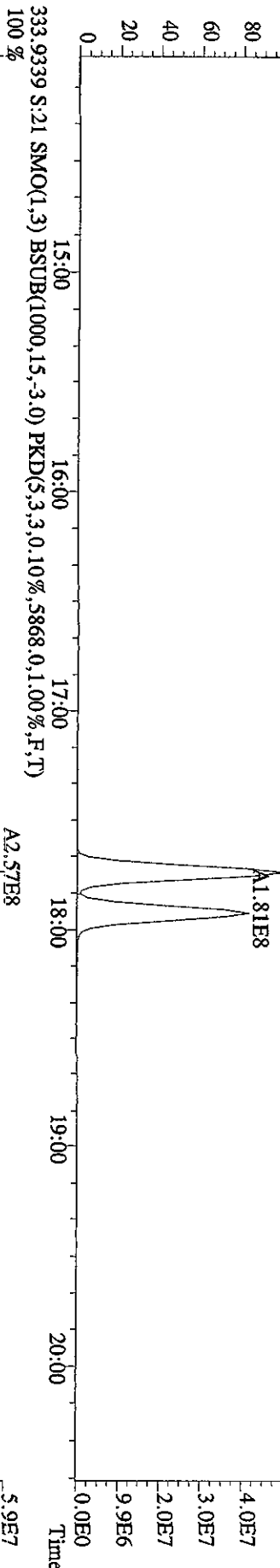
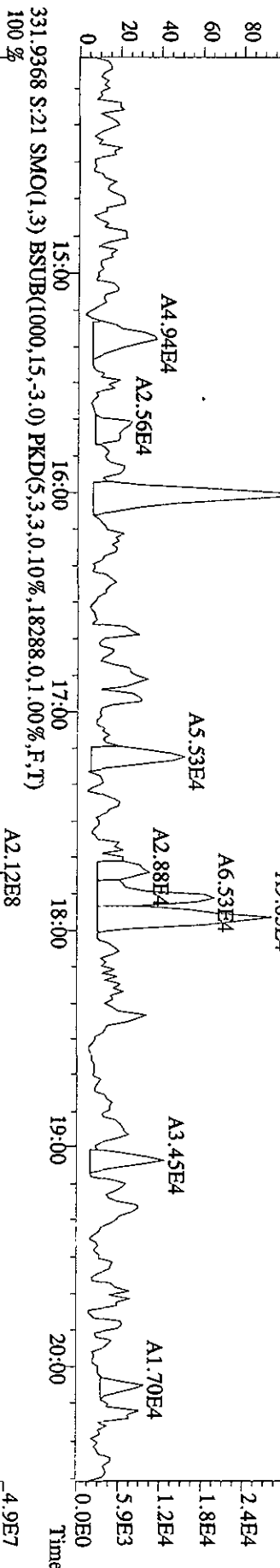
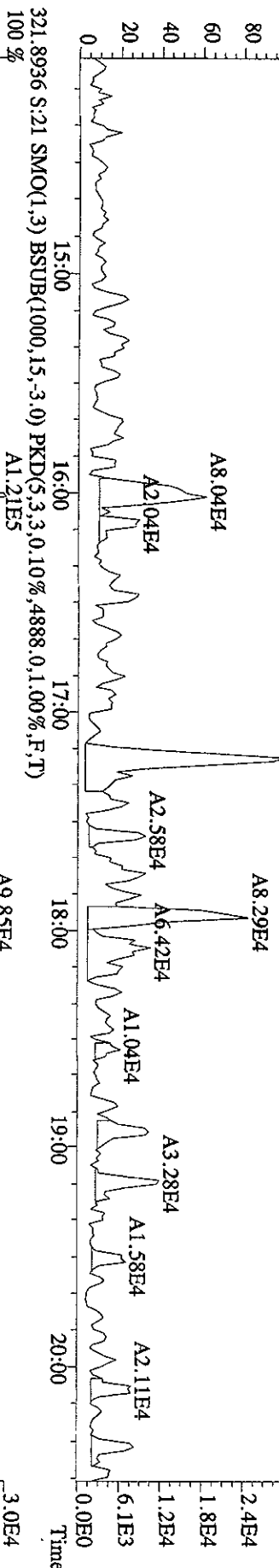
315.9419 S: 21 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,11724,0,1,00%,F,T) A3.14E8



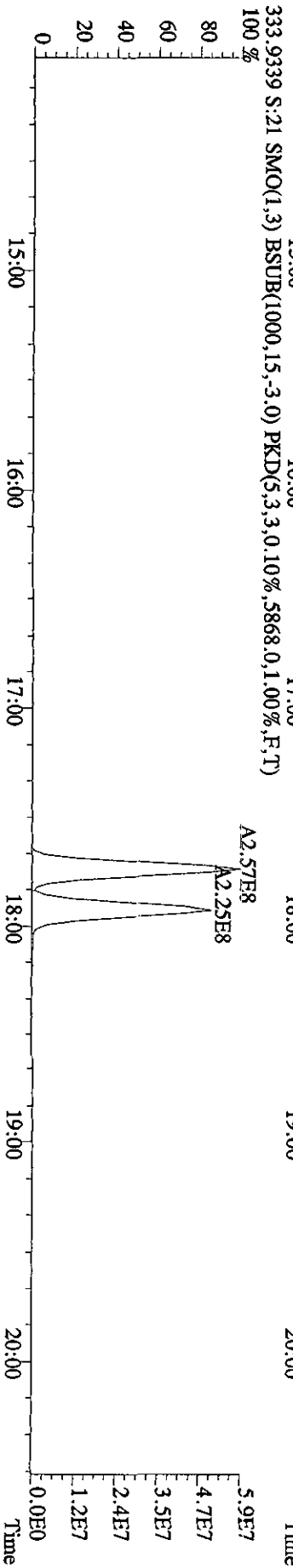
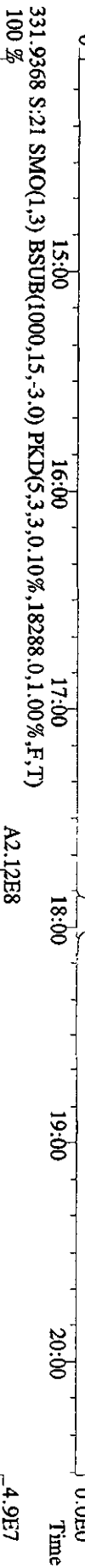
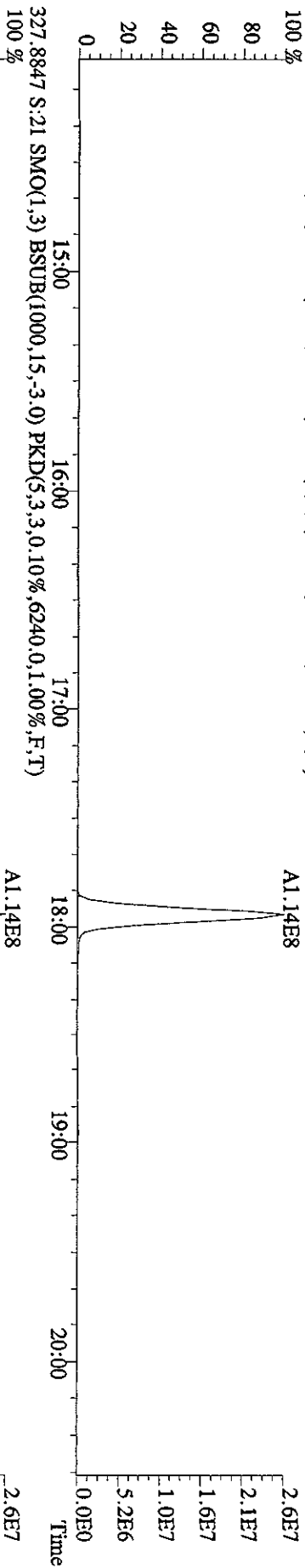
317.9389 S: 21 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8376,0,1,00%,F,T) A3.84E8



File: 27SEI01D5 #1-382 Acq: 27-SEP-2010 23:47:47 GC EI+ Voltage SIR 70SE  
 Sample# 21 Text: L7DOP-1-AA : G01230491-5 Exp: DIOXINRES  
 319.8965 S: 21 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4176,0,1,00%,F,T)  
 100%

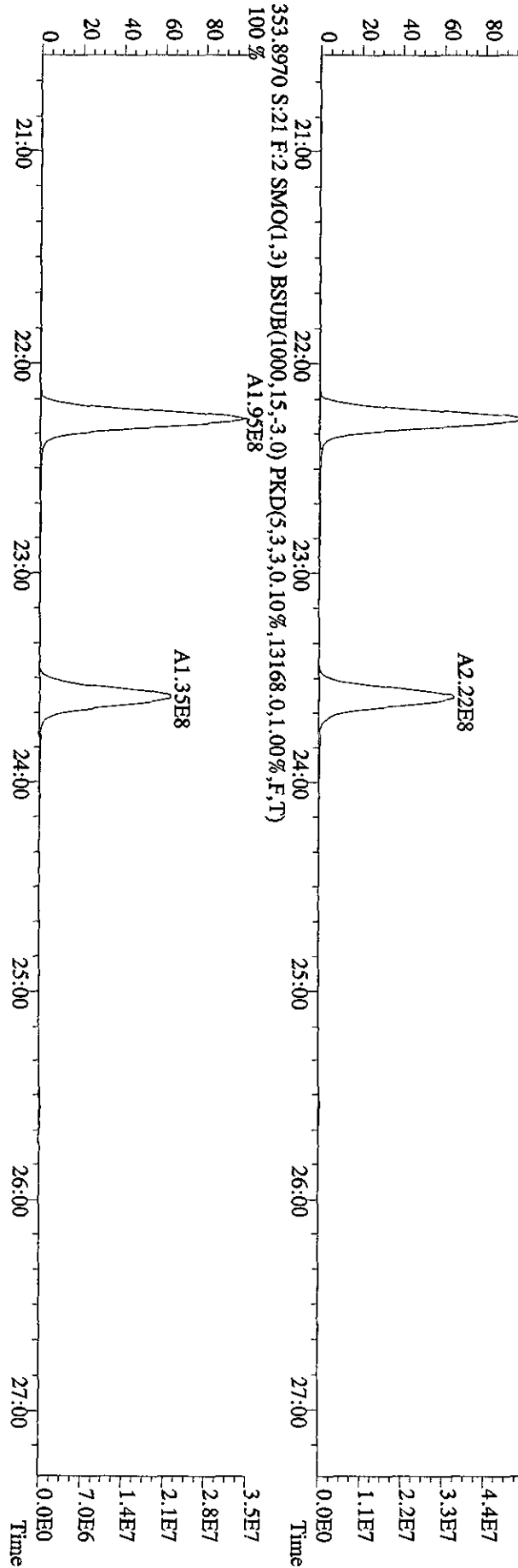
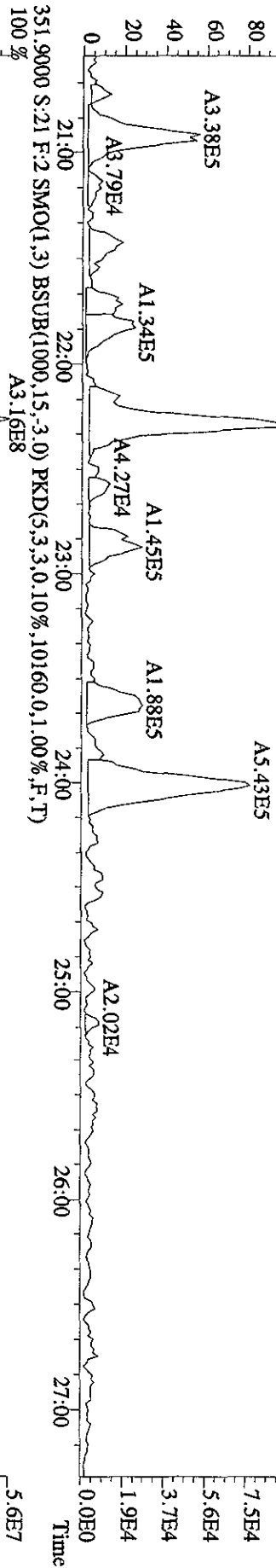
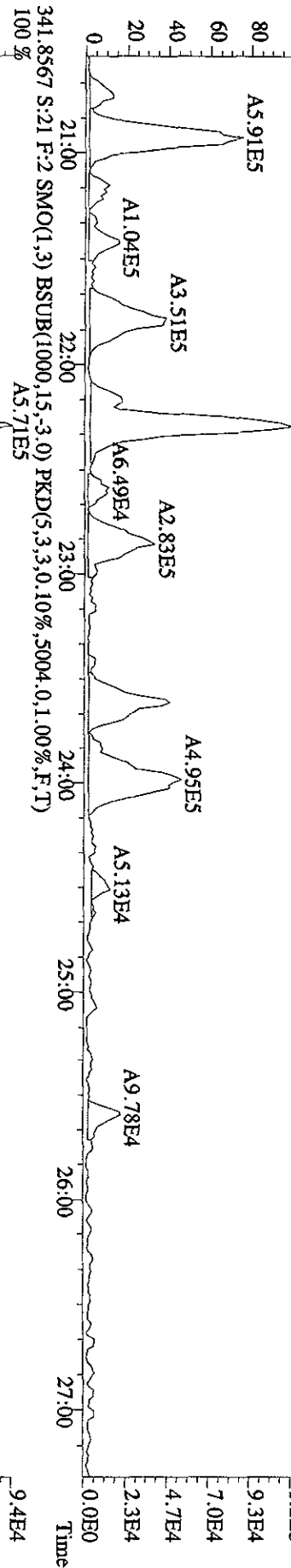


File: 27SE101D5 #1-382 Acq: 27-SEP-2010 23:47:47 GC EI+ Voltage SIR 70SE  
 Sample#21 Text: L7DQP-1-AA : G0I230491-5 Exp: DIOXINRES  
 327.8847 S:21 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6240,0,1,00%,F,T)  
 100%

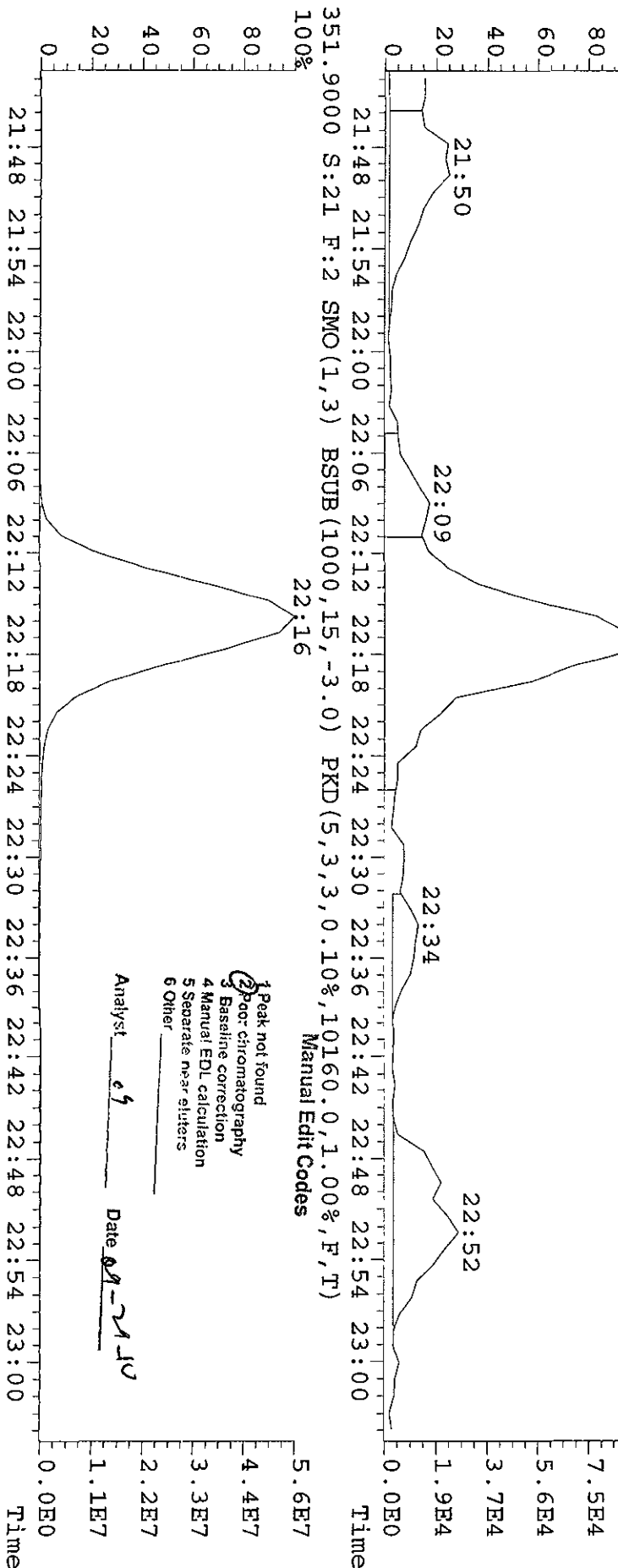
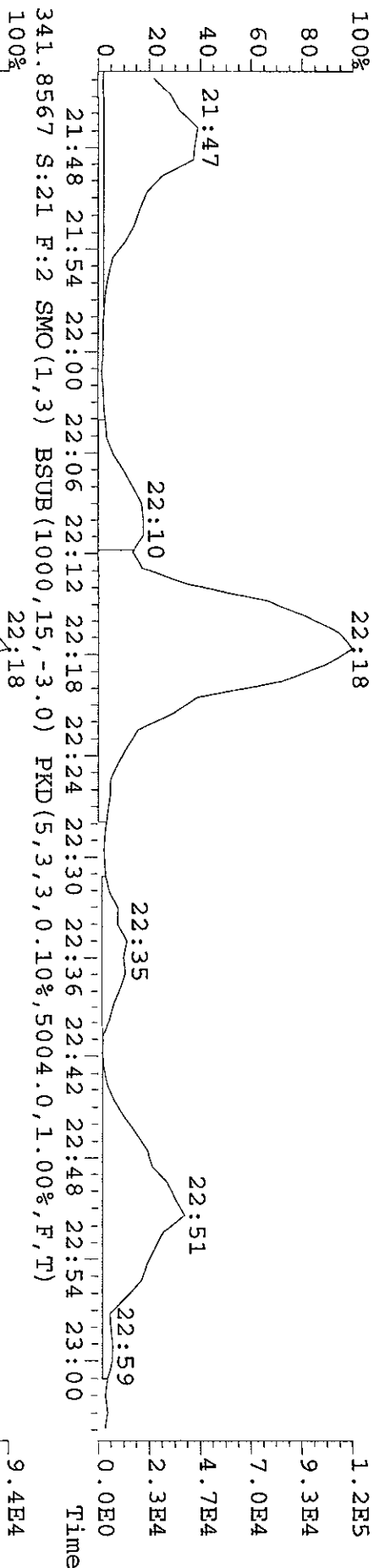




File: 27SEI01D5 #1-422 Acq: 27-SEP-2010 23:47:47 GC EI+ Voltage SIR 70SE  
 Sample#21 Text: L7DQP-1-AA : G01230491-5 Exp: DIOXINRES  
 339.8597 S:21 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4036,0,1,00%,F,T)  
 100% A7.93E5



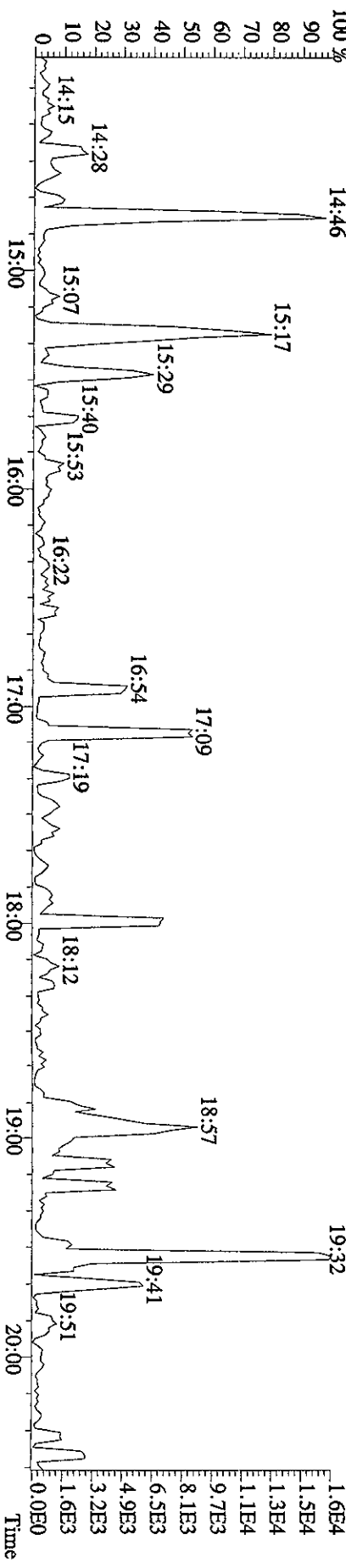
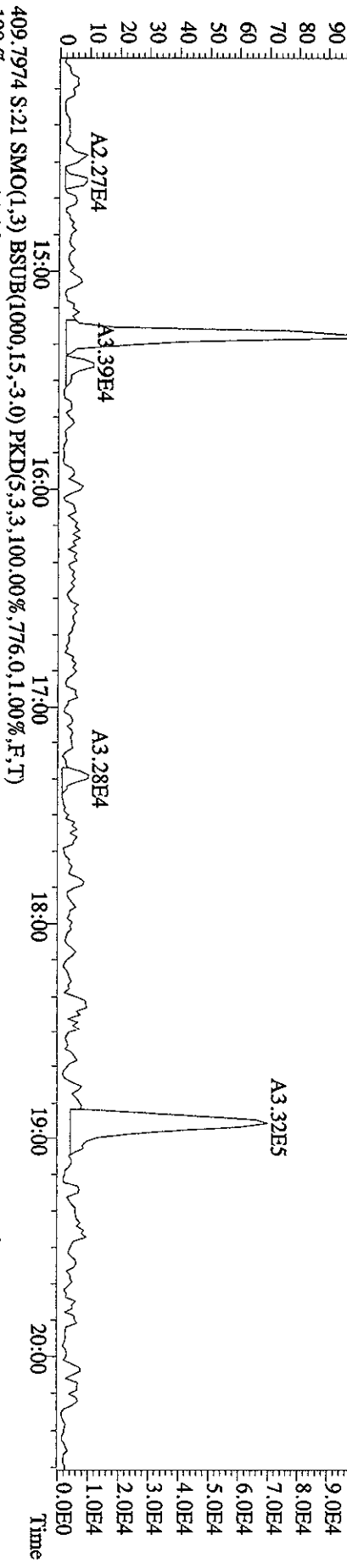
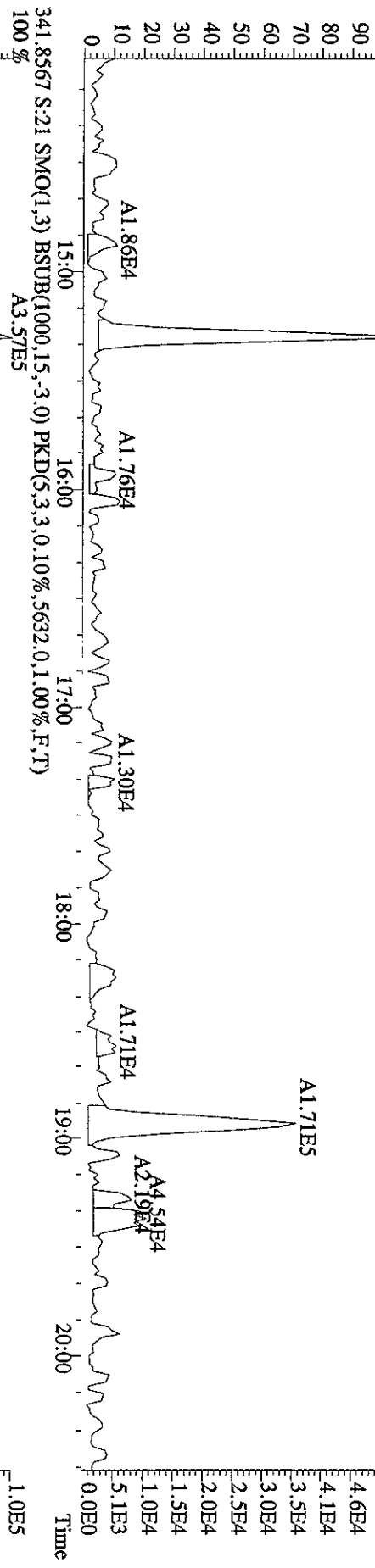
File: 27SE101D5 #1-422 Acq: 27-SEP-2010 23:47:47 GC EI+ Voltage SIR 70SE  
 Sample# 21 Text: L7DQP-1-AA : G0I230491-5 Exp: DIOXINRES  
 339.8597 S: 21 F: 2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4036.0,1.00%,F,T)



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

Analyst ef Date 09-21-10

File: 27SE101D5 #1-382 Acq: 27-SEP-2010 23:47:47 GC EI+ Voltage SIR 70SE  
 Sample#21 Text: L7DQP-1-AA :G01230491-5 Exp: DIOXINRES  
 339.8597 S:21 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2868.0,1.00%,F,T)  
 100%

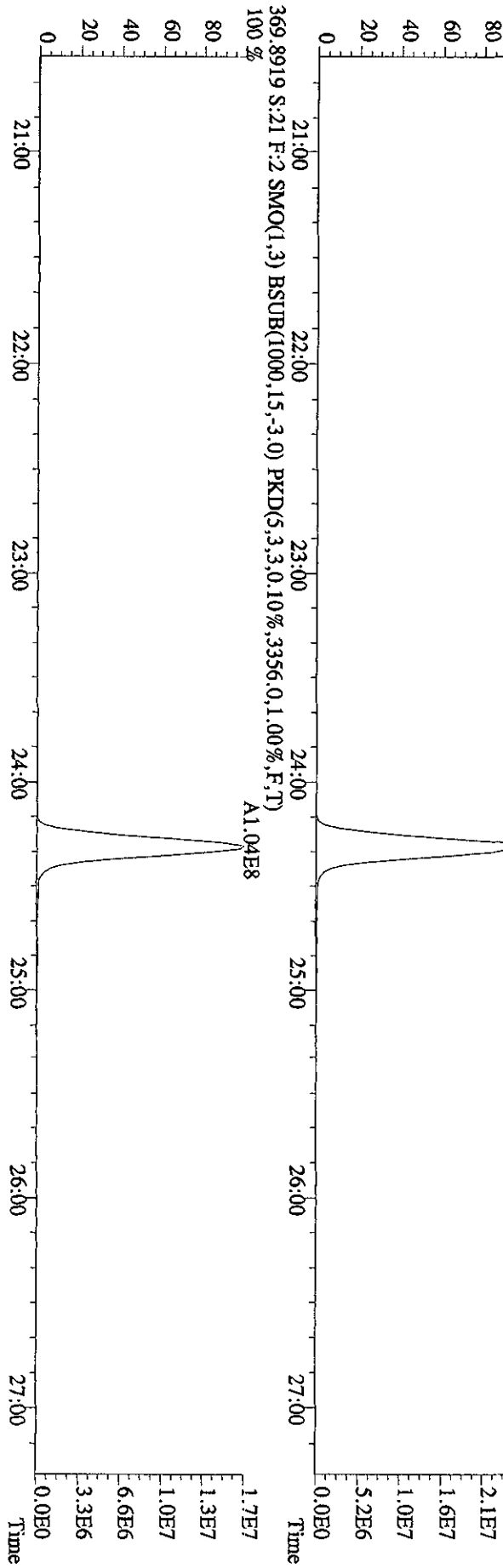
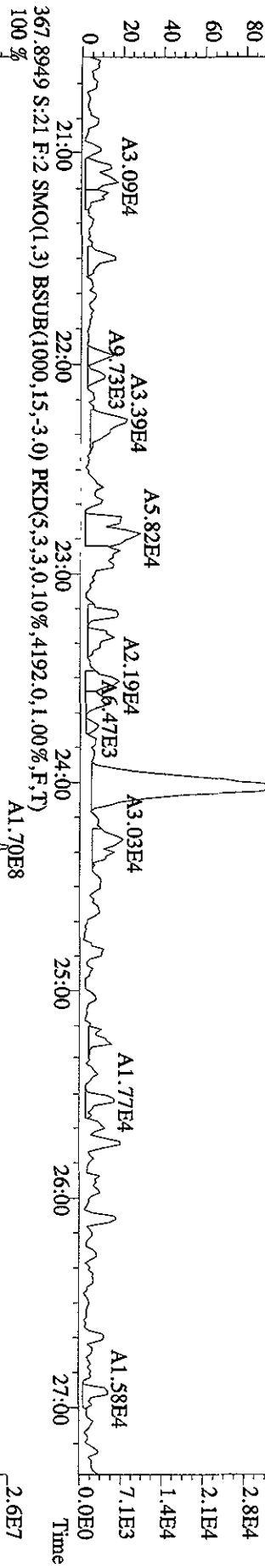
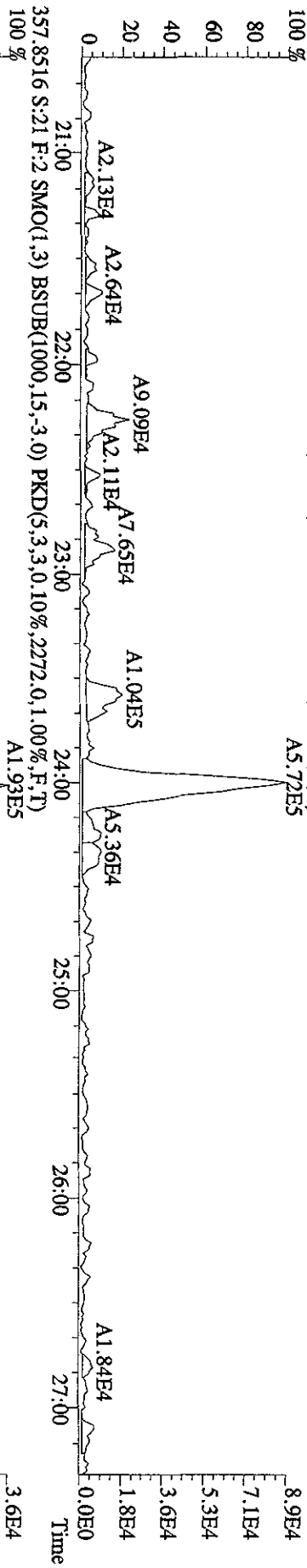


File:27SE101D5 #1-422 Acq:27-SEP-2010 23:47:47 GC EI+ Voltage SIR 70SE

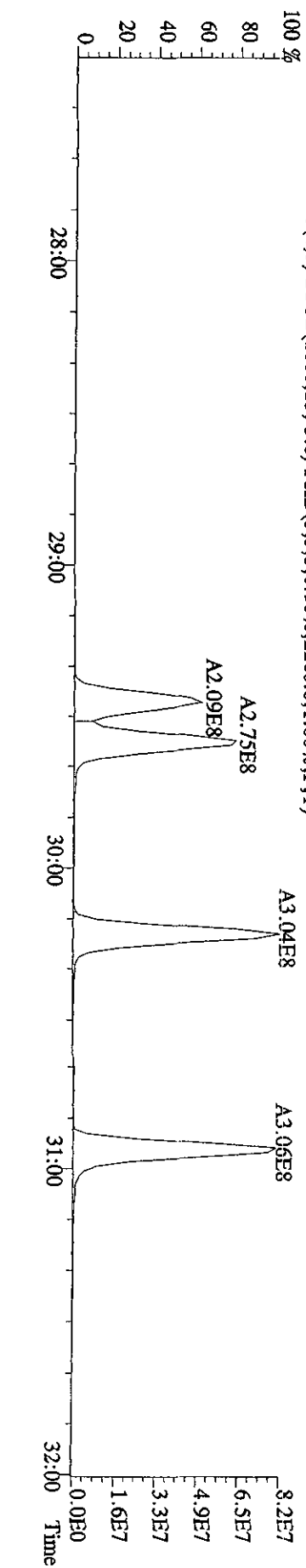
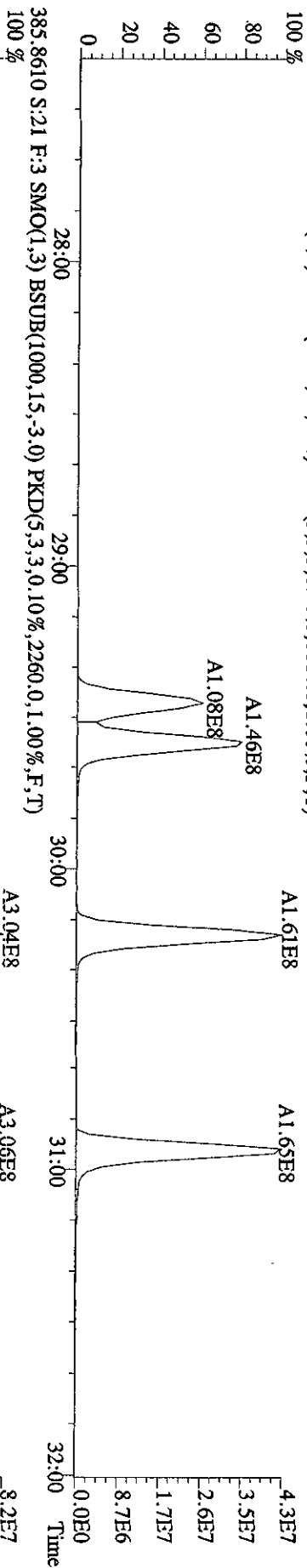
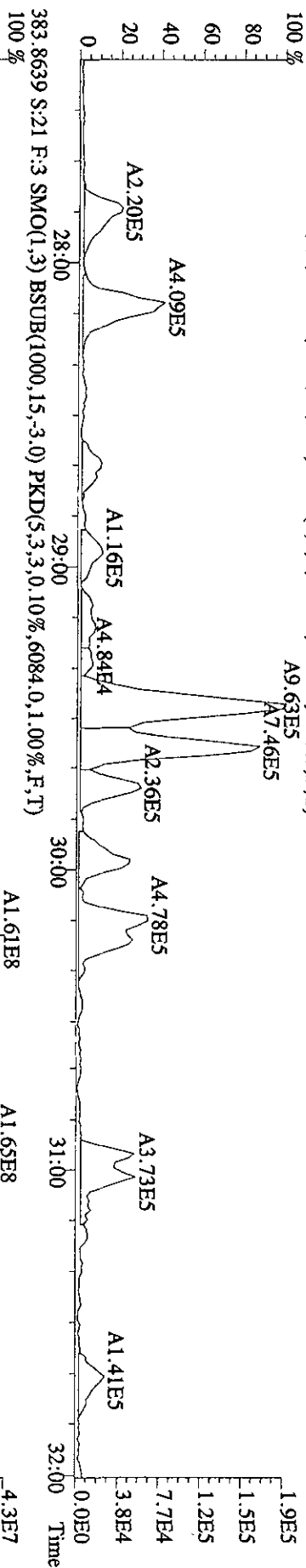
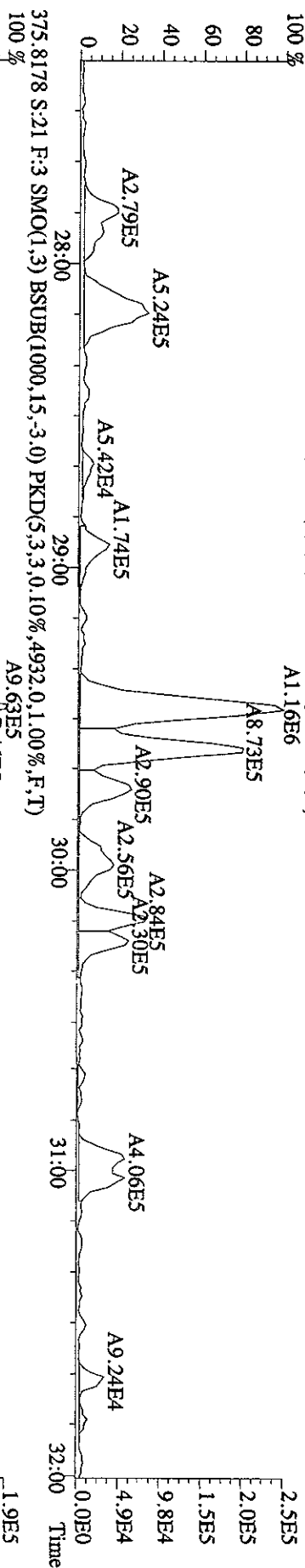
Sample#21 Text:L7DQP-1-AA :G01230491-5

Exp:DIOXINRES

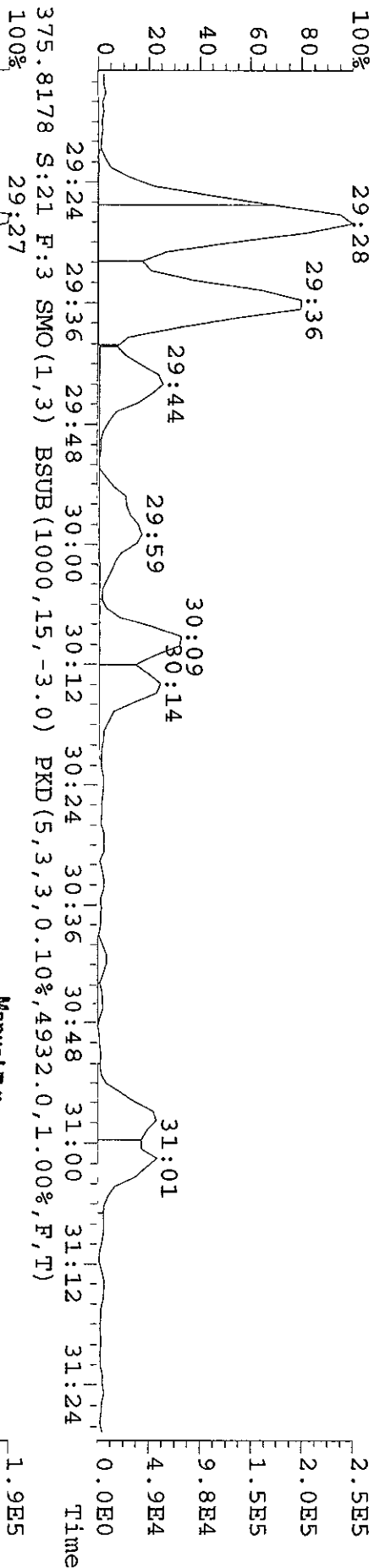
355.8546 S:21 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.3160,0.1,0.00%,F,T) A5.72E5



File: 27SEI01D5 #1-301 Acq: 27-SEP-2010 23:47:47 GC EI + Voltage SIR 70SE  
 Sample# 21 Text: L7DOP-1-AA : G01230491-5 Exp: DIOXINRES  
 373.8208 S:21 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5628,0,1,00%,F,T) A1.16E6



File: 27SE101D5 #1-301 Acq: 27-SEP-2010 23:47:47 GC EI+ Voltage SIR 70SE  
 Sample#21 Text: L7DQP-1-AA : G0I230491-5 Exp: DIOXINRES  
 373.8208 S:21 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5628.0,1.00%,F,T)  
 100%

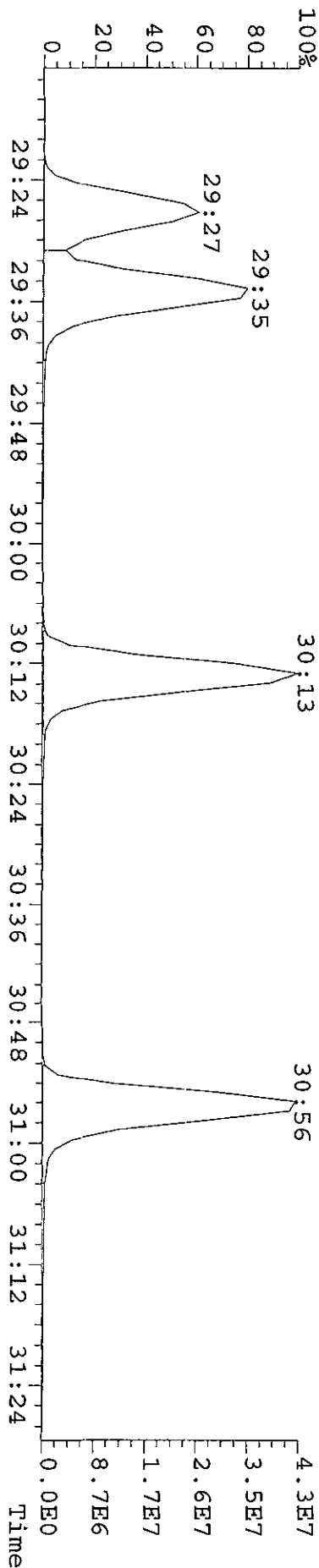


Manual Edit Codes

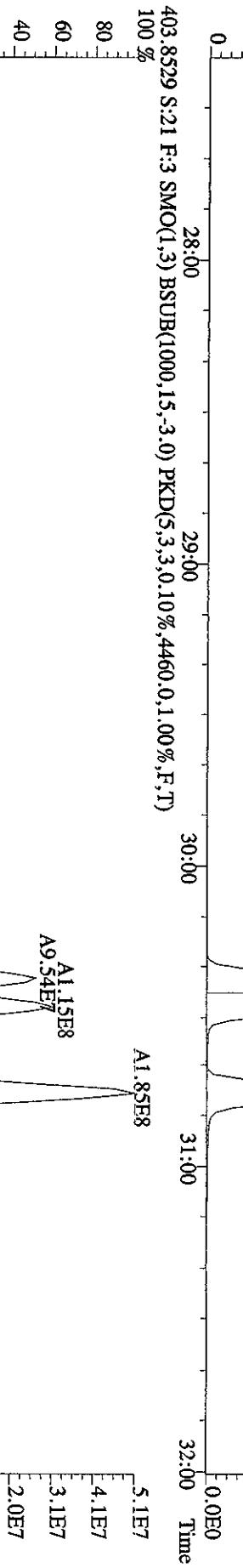
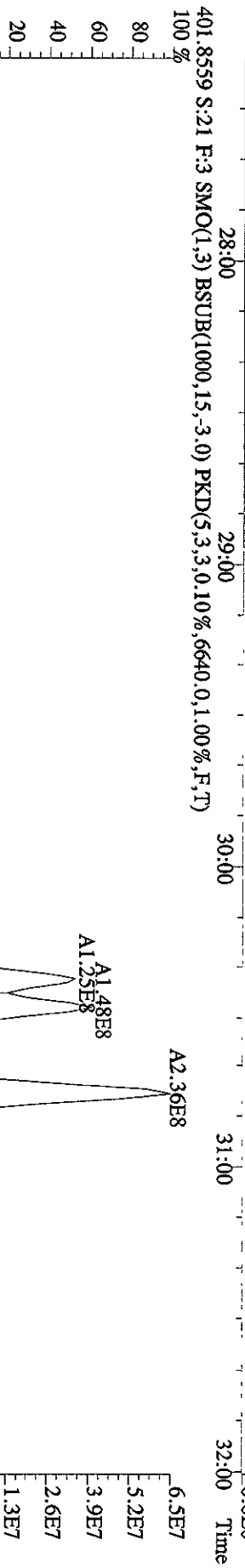
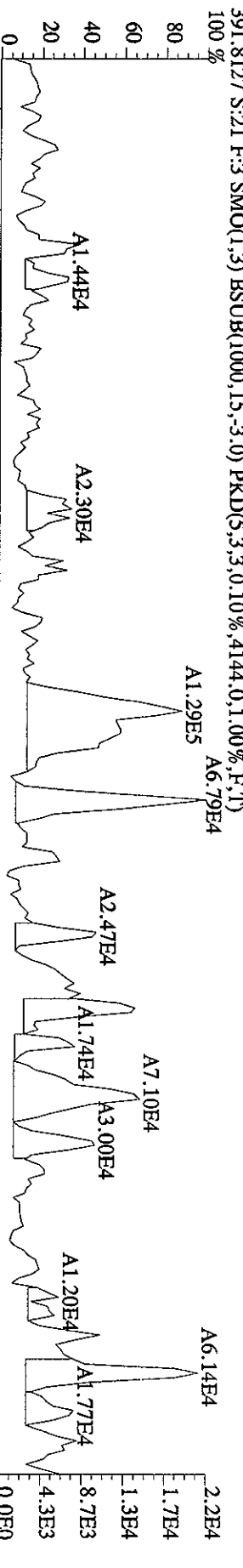
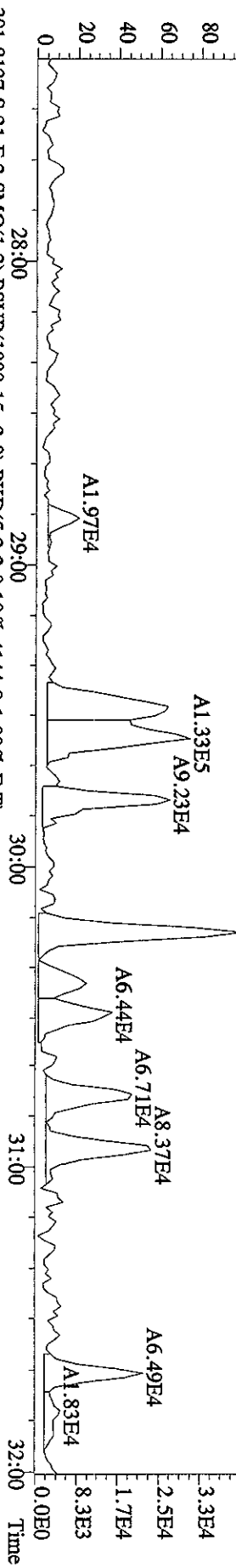
- 1 Peak not found
- 2 Run direction priority
- 3 Baseline correction
- 4 Manual edit correction
- Separate peak status
- 5 Other

Analyst 01 Date 09-29-10  
31-14

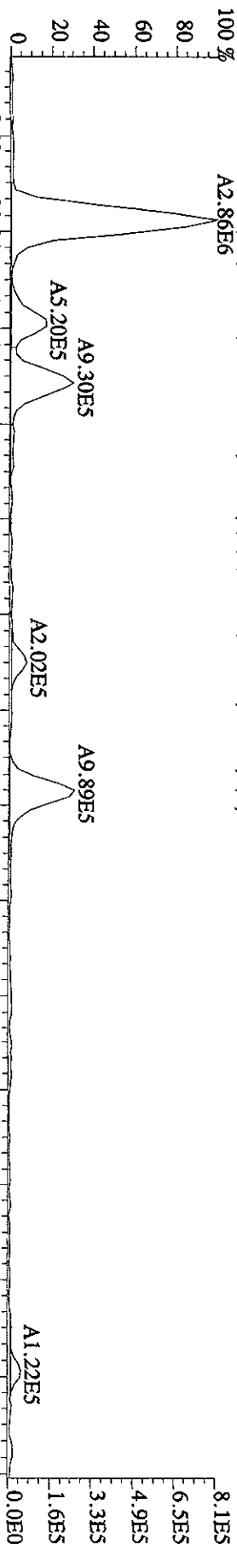
375.8178 S:21 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4932.0,1.00%,F,T)  
 100%



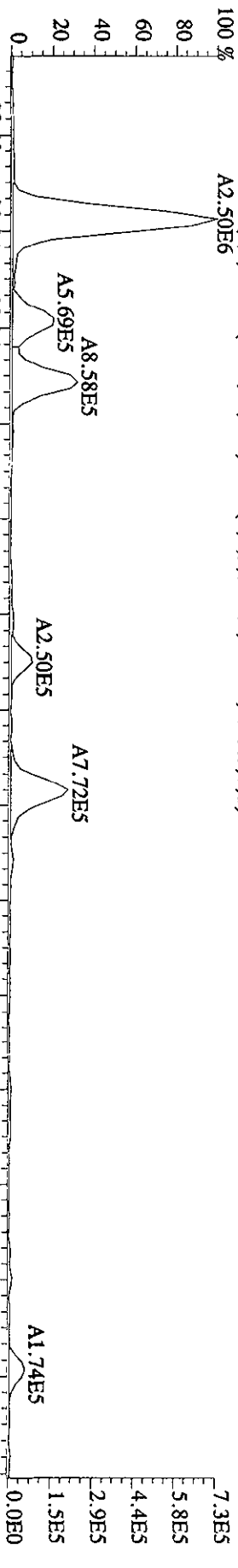
File: 27SE101D5 #1-301 Acq: 27-SEP-2010 23:47:47 GC EI+ Voltage SIR 70SE  
 Sample# 21 Text: LTDQP-1-AA : G01230491-5 Exp: DIOXINRES  
 389.8157 S:21 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3896.0,1.00%,F,T)



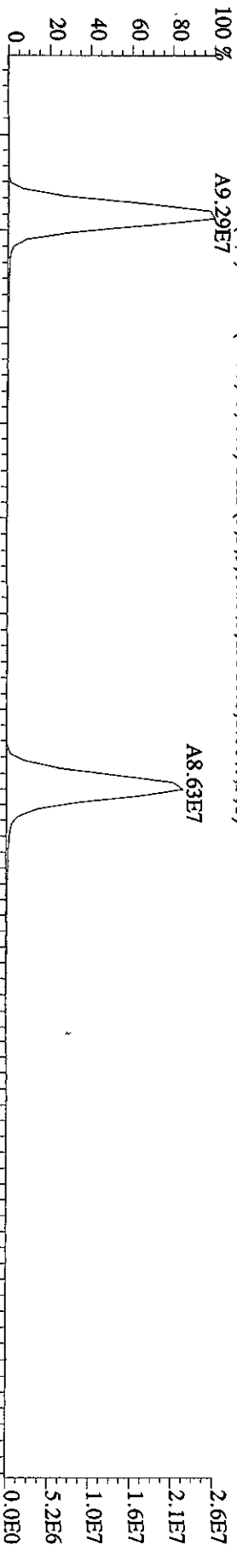
407.7818 S: 21 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,9052,0,1,00%,F,T)



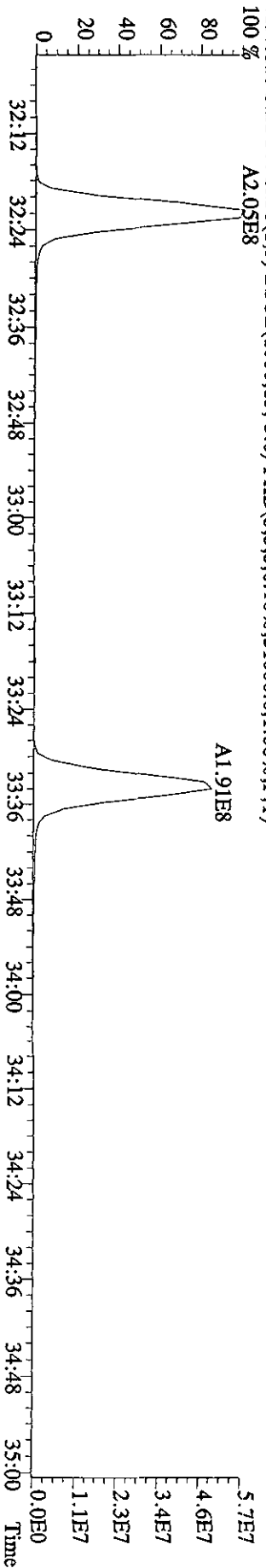
409.7789 S: 21 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7540,0,1,00%,F,T)



417.8253 S: 21 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,19516,0,1,00%,F,T)



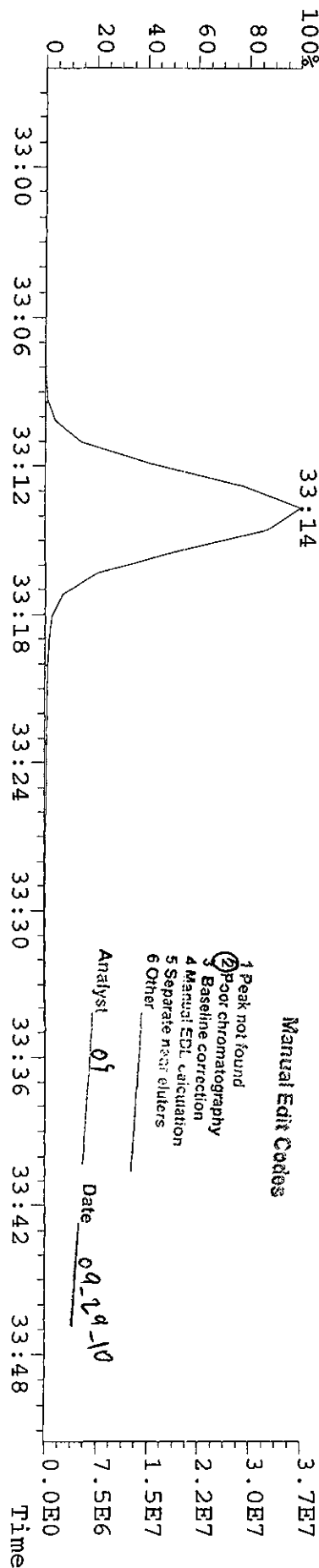
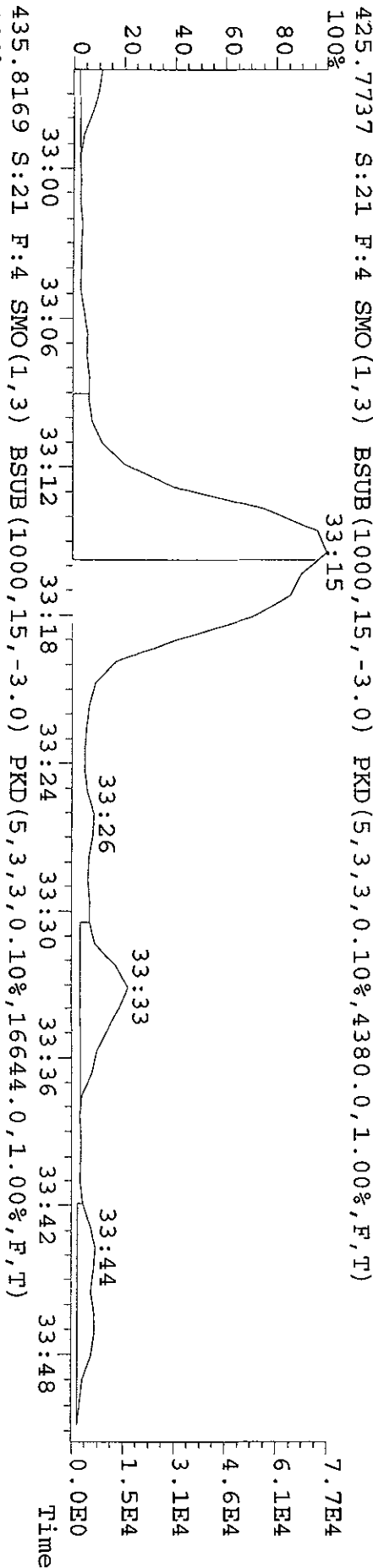
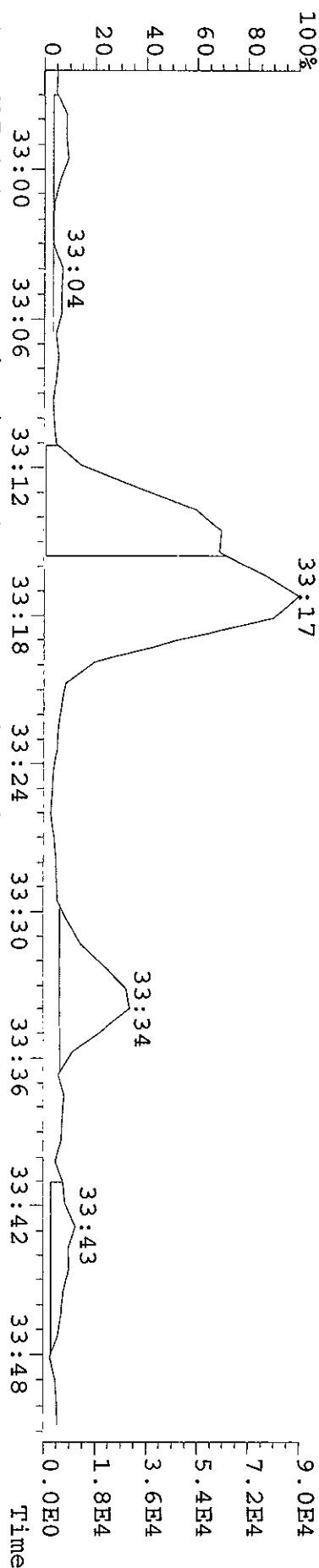
419.8220 S: 21 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,31000,0,1,00%,F,T)







File: 27SE101D5 #1-203 Acq: 27-SEP-2010 23:47:47 GC EI+ Voltage SIR 70SE  
 Sample#21 Text: L7DQP-1-AA : G0I230491-5 Exp: DIOXINRES  
 423.7766 S:21 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4532.0,1.00%,F,T)  
 100%

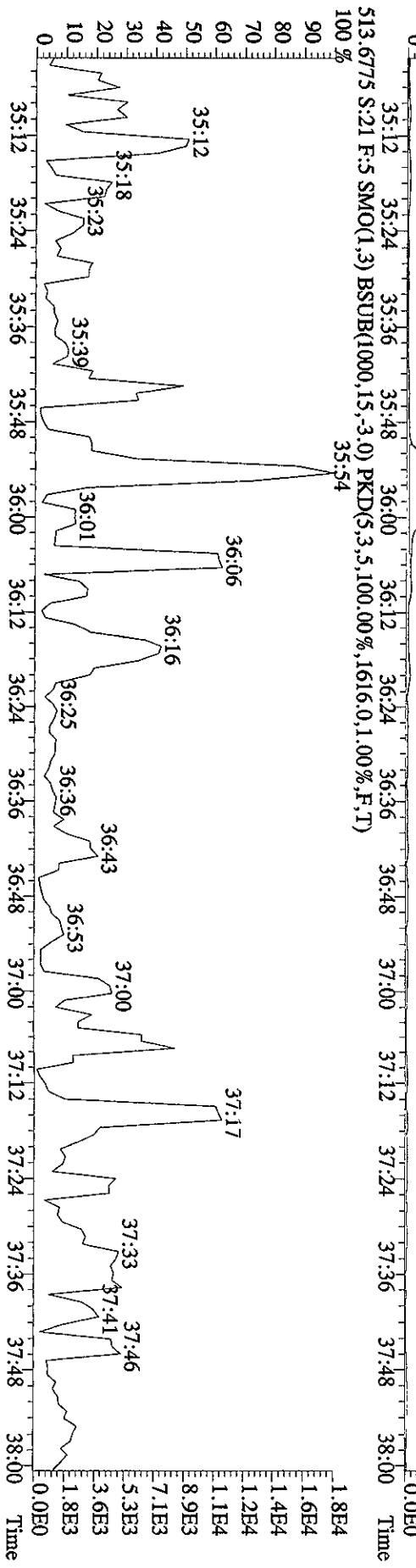
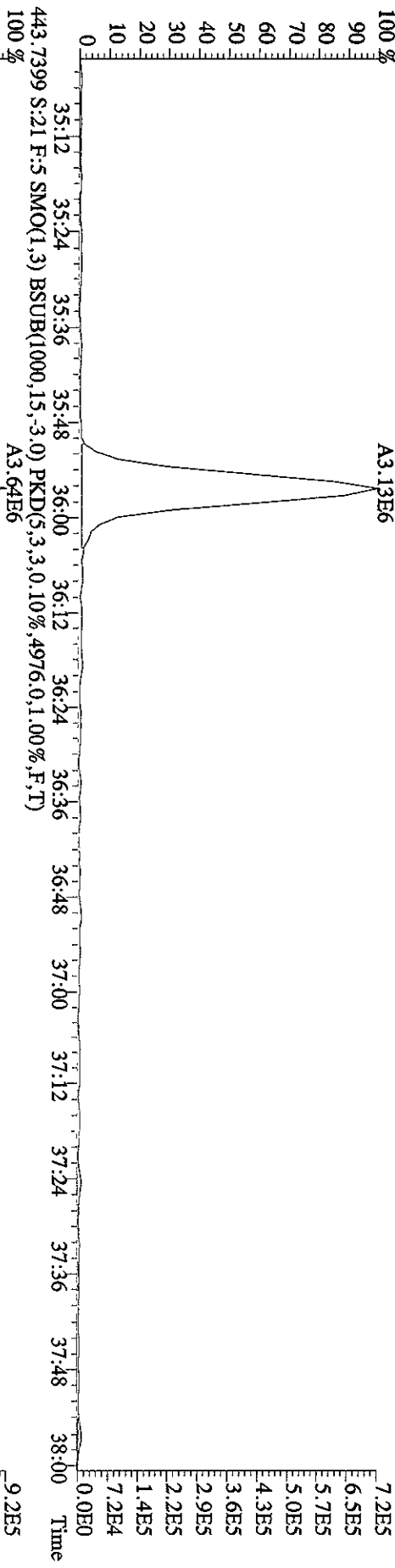


Manual Edit Codes

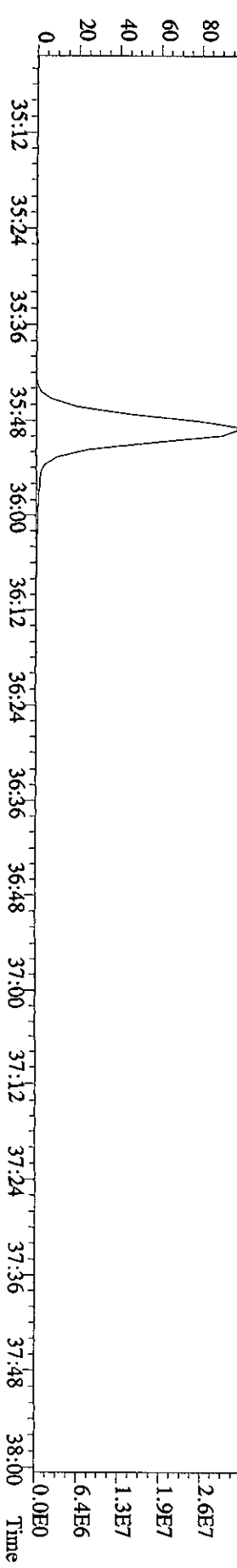
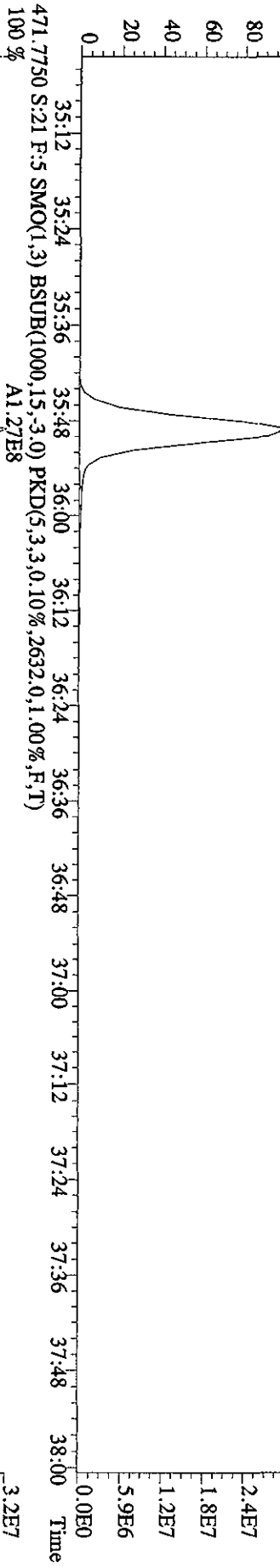
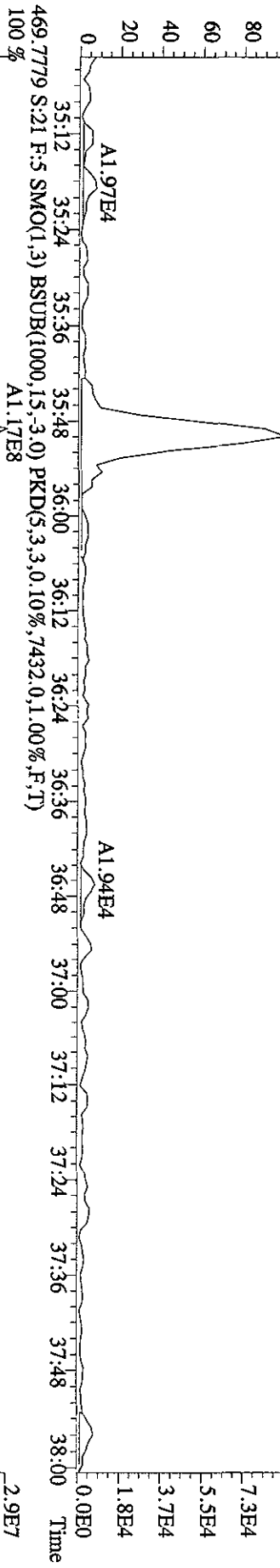
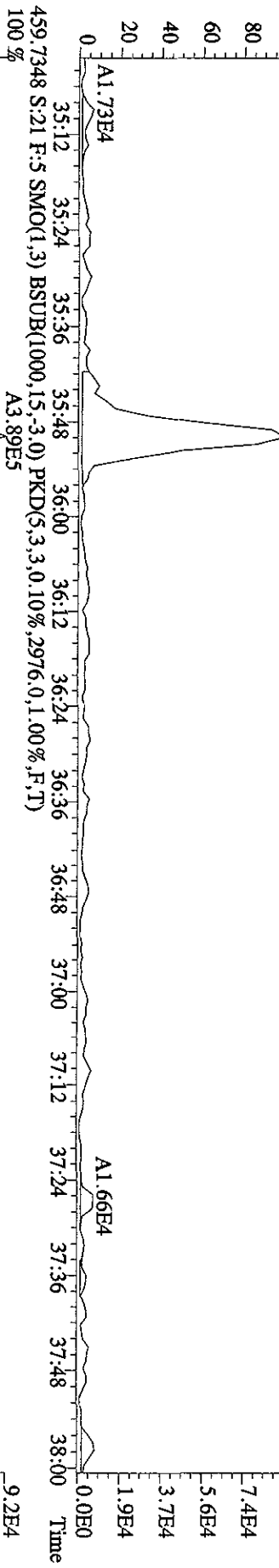
- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate peak eluters
- 6 Other

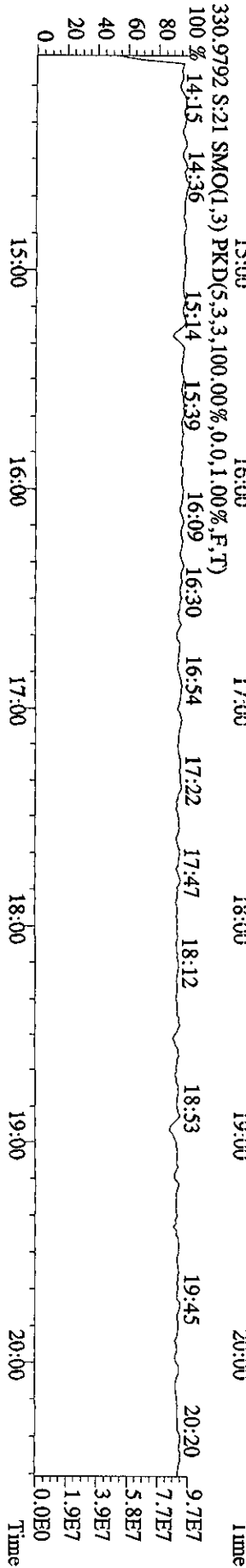
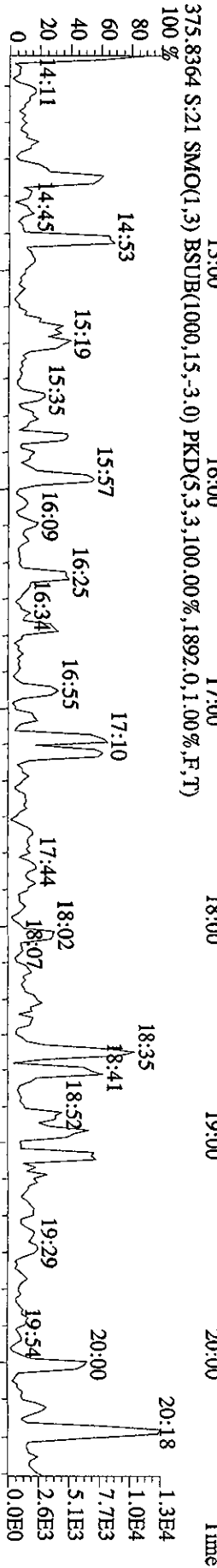
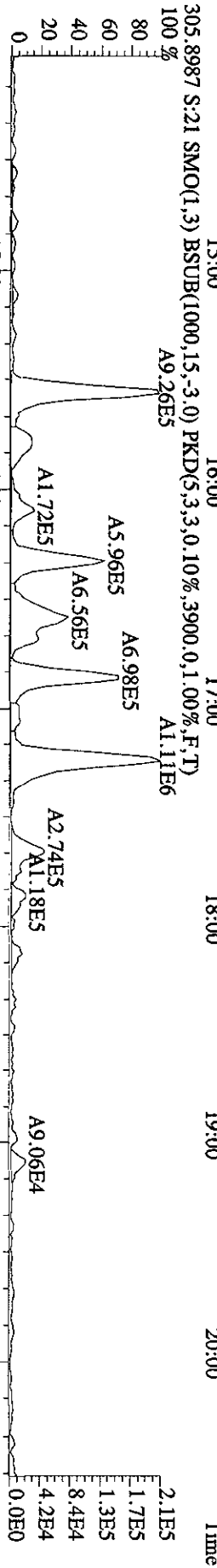
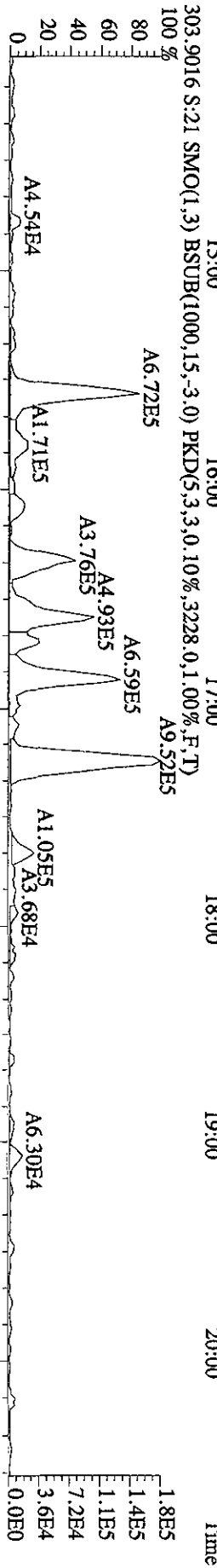
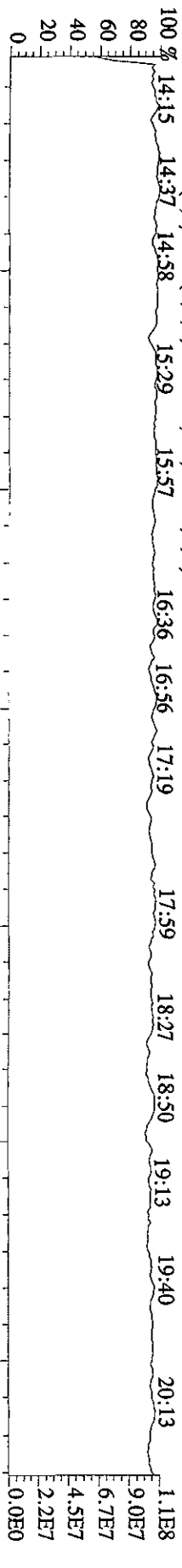
Analyst 01 Date 09-29-10

File: 27SE101D5 #1-196 Acq: 27-SEP-2010 23:47:47 GC EI+ Voltage SIR 70SE  
 Sample#21 Text: L7DQP-1-AA :G01230491-5 Exp: DIOXINRES  
 441.7428 S:21 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4520.0,1.00%,F,T)  
 100% A3.13E6



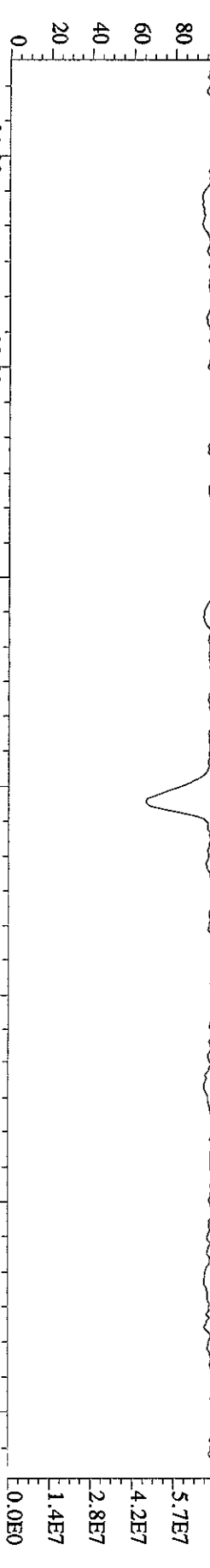
File: 27SE101D5 #1-196 Acq: 27-SEP-2010 23:47:47 GC EI+ Voltage SIR 70SE  
 Sample# 21 Text: L7DQP-1-AA : G0I230491-5 Exp: DIOXINRES  
 457.7377 S: 21 F: 5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3212.0,1.00%,F,T)  
 100%



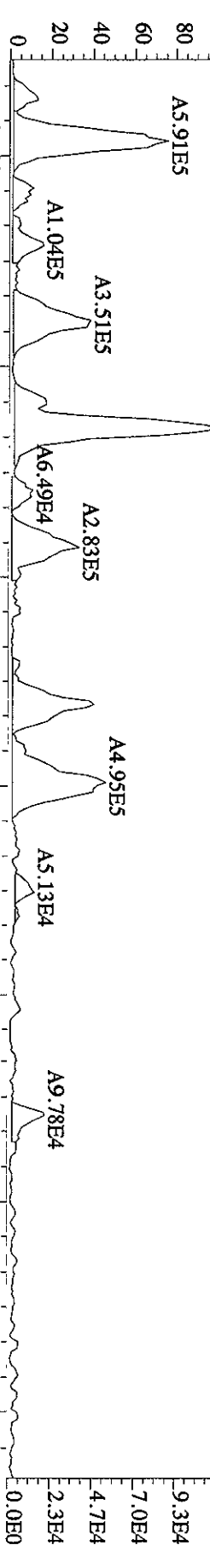


File:27SE101D5 #1-422 Acq:27-SEP-2010 23:47:47 GC EI+ Voltage SIR 70SE  
 Sample#21 Text:L7DQP-1-AA :G0I230491-5 Exp:DIOXINRES

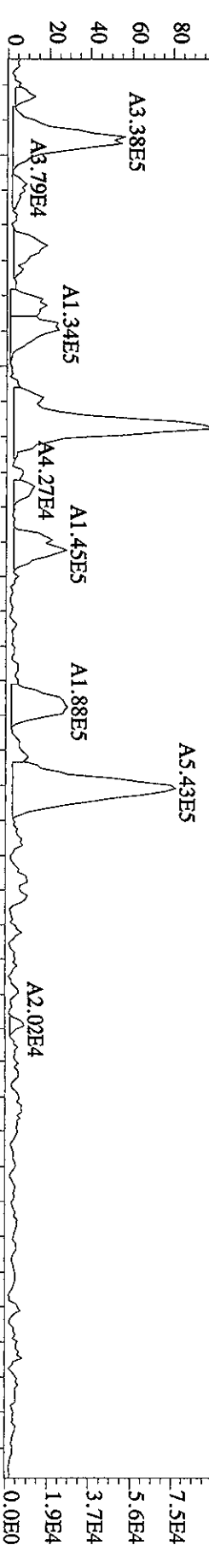
342.9792 S:21 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100% 20:50 21:29 21:55 22:19 22:49 23:15 23:42



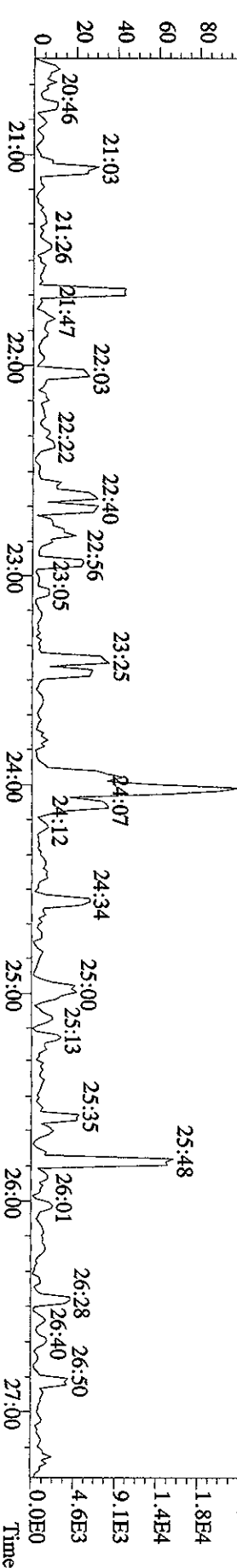
339.8597 S:21 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4036,0,1.00%,F,T)  
 100% 21:00 22:00 23:00 24:00 25:00 26:00 27:00



341.8567 S:21 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5004,0,1.00%,F,T)  
 100% 21:00 22:00 23:00 24:00 25:00 26:00 27:00

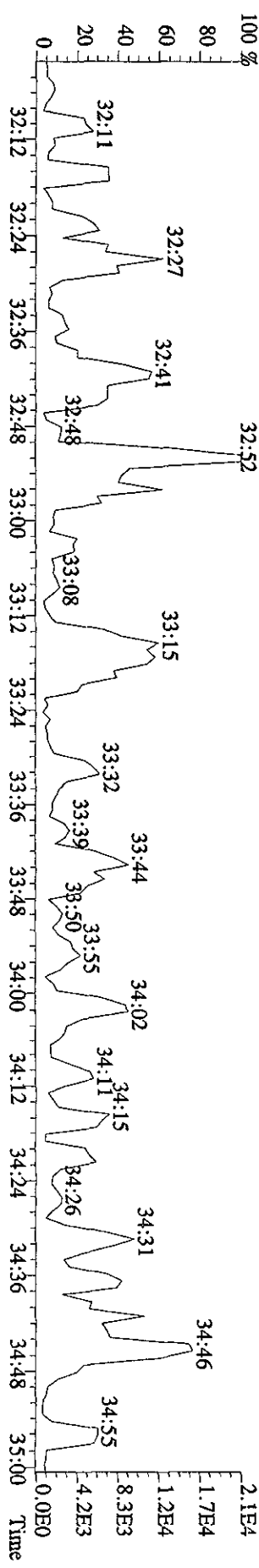
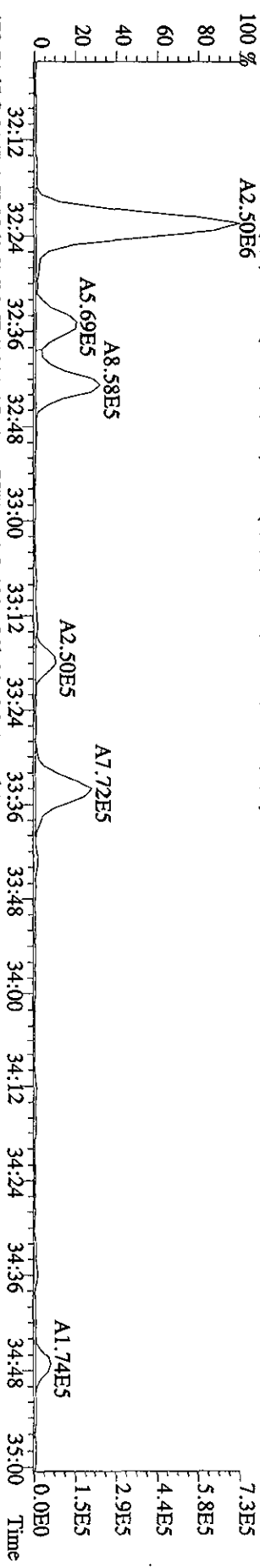
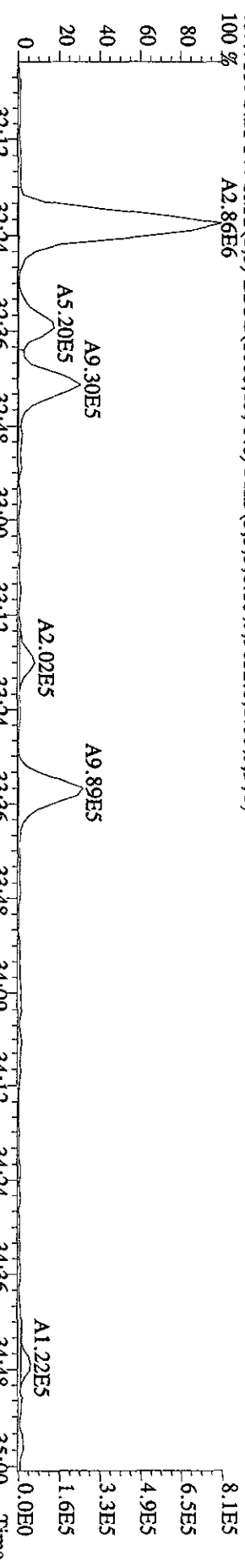
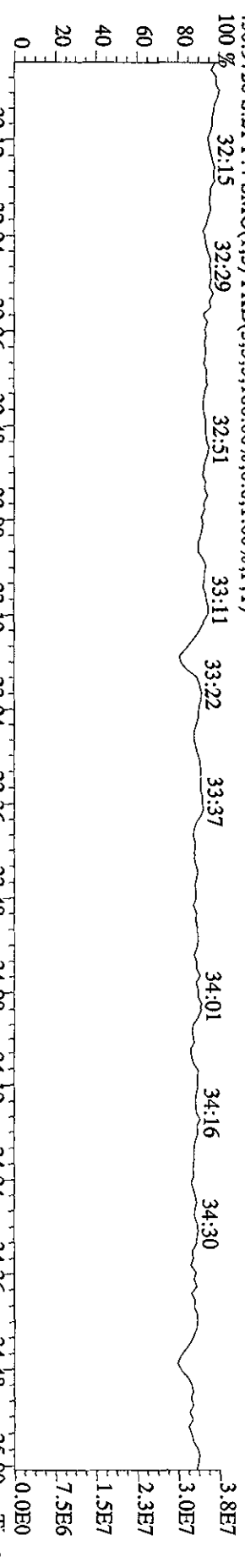


409.7974 S:21 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1340,0,1.00%,F,T)  
 100% 21:00 22:00 23:00 24:00 25:00 26:00 27:00





File: 27SE101D5 #1-203 Acq: 27-SEP-2010 23:47:47 GC EI + Voltage SIR 70SE  
 Sample#21 Text: L7DOP-1-AA : G01230491-5 Exp: DIOXINRES  
 430.9728 S:21 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 407.7818 S:21 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,9052.0,1.00%,F,T)  
 409.7789 S:21 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7540.0,1.00%,F,T)  
 479.7165 S:21 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,2076.0,1.00%,F,T)





File: 27SE101D5 #1-196 Acq: 27-SEP-2010 23:47:47 GC EI+ Voltage SIR 70SE

Sample# 21 Text: L7DOP-1-AA : G01230491-5 Exp: DIOXINRES

454.9728 S:21 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100% 35:09 35:24 35:43 35:55 36:06

36:27 37:02 37:20 37:44

2.1E7 1.9E7 1.7E7 1.5E7 1.3E7 1.0E7 8.3E6 6.3E6 4.2E6 2.1E6

0.0E0

35:12 35:24 35:36 35:48 36:00 36:12 36:24 36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00

Time

Time

Time

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Time

Time

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Run text: L7DQR-1-AA      Sample text: L7DQR-1-AA :G0I230491-7  
 Run #12 Filename: 27SE101D5    S: 22    I: 1      Results: 27se101d5to9os  
 Acquired: 28-SEP-10    00:30:45      Processed: 28-SEP-10    09:22:56  
 Run: 27SE101D5      Analyte: TO9      Cal: TO90914101D5  
 Factor 1:1600.000      Factor 2:20.000      Sample size: 0.50    Sample

09  
09-29-10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	505878000	0.80 y	17:45	-	289.542	-	-	n
13C-2,3,7,8-TCDF	729157000	0.80 y	17:15	1.56	3688.563	1.215	92.2	n
2,3,7,8-TCDF	24586100	0.78 y	17:16	0.98	<del>137.101</del>	0.866	-	n
Total TCDF	120008334	0.73 y	14:49	0.98	669.211	0.866	-	n
13C-2,3,7,8-TCDD	421872000	0.80 y	17:57	0.92	3622.324	2.595	90.6	n
2,3,7,8-TCDD	352524	0.70 y	17:58	1.03	3.240	1.049	-	n
Total TCDD	5118391	0.72 y	15:44	1.03	<del>47.041</del> 44.521	1.049	-	n
37Cl-2,3,7,8-TCDD	233624000	1.00 y	17:58	1.23	1806.384	1.159	112.9	n
13C-1,2,3,7,8-PeCDF	513167000	1.65 y	22:17	1.05	3855.024	1.575	96.4	n
1,2,3,7,8-PeCDF	12177100	1.56 y	22:19	1.09	86.908	1.485	-	Y
2,3,4,7,8-PeCDF	4349670	1.76 y	23:39	1.02	33.316	1.593	-	n
Total F2 PeCDF	53370371	1.55 y	20:45	1.05	392.461	1.537	-	Y
Total F1 PeCDF	1912389	0.61 n	15:19	1.05	<del>44.131</del> 8.3	0.729	-	n
13C-1,2,3,7,8-PeCDD	280340000	1.64 y	24:20	0.56	3952.210	1.787	98.8	n
1,2,3,7,8-PeCDD	434487	1.46 y	24:22	1.07	5.792	1.893	-	n
Total PeCDD	3308708	1.38 y	21:07	1.07	<del>44.107</del> 43.187 32.08	1.893	-	n
13C-1,2,3,7,8,9-HxCDD	443341000	1.27 y	30:46	-	270.148	-	-	n
13C-1,2,3,4,7,8-HxCDF	338326000	0.52 y	29:27	0.99	3080.718	2.417	77.0	n
1,2,3,4,7,8-HxCDF	16474050	1.31 y	29:28	1.26	154.464	1.743	-	Y
1,2,3,6,7,8-HxCDF	14294010	1.26 y	29:37	1.53	110.374	1.435	-	Y
2,3,4,6,7,8-HxCDF	3455410	1.29 y	30:14	1.41	29.029	1.561	-	Y
1,2,3,7,8,9-HxCDF	2508920	1.32 y	30:58	1.40	21.246	1.574	-	n
Total HxCDF	77516682	1.21 y	27:51	1.40	659.810	1.571	-	Y
13C-1,2,3,6,7,8-HxCDD	271153000	1.33 y	30:28	0.74	3308.302	1.710	82.7	n
1,2,3,4,7,8-HxCDD	273233	1.08 y	30:23	1.12	3.599	1.425	-	n
1,2,3,6,7,8-HxCDD	468384	1.00 n	30:29	1.14	6.055	1.398	-	n
1,2,3,7,8,9-HxCDD	848567	1.36 y	30:47	1.35	9.246	1.179	-	n
Total HxCDD	4041437	1.16 y	28:51	1.20	<del>48.910</del> 46.57	1.324	-	n
13C-1,2,3,4,6,7,8-HpCDF	303600700	0.46 y	32:23	0.96	2864.964	3.527	71.6	n
1,2,3,4,6,7,8-HpCDF	51133000	1.05 y	32:23	1.41	478.419	2.021	-	n
1,2,3,4,7,8,9-HpCDF	15748560	1.10 y	33:35	1.24	167.902	2.303	-	n
Total HpCDF	93451069	1.05 y	32:23	1.32	<del>911.123</del> 904.543	2.153	-	n
13C-1,2,3,4,6,7,8-HpCDD	255896000	1.07 y	33:14	0.71	3241.786	2.529	81.0	n
1,2,3,4,6,7,8-HpCDD	2647610	1.09 y	33:15	1.13	36.484	1.067	-	n
Total HpCDD	4543629	2.40 n	32:23	1.13	<del>62.612</del> 54.23	1.067	-	n
13C-OCDD	230124000	0.93 y	35:49	0.35	5887.044	3.492	73.6	n
OCDF	61307200	0.90 y	35:56	2.12	1006.499	1.875	-	n

OCDD 1619606 0.91 y 35:50 1.37 41.064 \$ 1.519 - n

Run Text: L7DQR-1-AA

Sample text: L7DQR-1-AA :G0I230491-7

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:16  
 Run: 12 File: 27SE101D5 S:22 Acq:28-SEP-10 00:30:45  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 334.61 of which 68.55 named and 266.05 unnamed  
 Conc: 669.21 of which 137.10 named and 532.11 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:49	0.73 y	10.55	797246 1095330	58.3 34.6	y	n
	2	15:09	1.09 n	2.79	309127 282747	18.6 8.5	y	n
	3	15:18	0.99 n	3.18	319385 322157	19.5 10.3	y	n
	4	15:35	0.75 y	144.26	11105900 14763900	724.7 438.3	y	n
	5	15:49	0.83 y	35.24	2871020 3447610	139.7 73.6	y	n
	6	16:07	0.83 y	24.94	2026680 2445180	70.5 48.0	y	n
	7	16:21	0.82 y	68.71	5561290 6760670	344.7 189.4	y	n
	8	16:36	0.78 y	67.18	5291840 6755930	281.9 163.4	y	n
	9	16:43	0.76 y	32.63	2530620 3321720	150.1 90.7	y	n
	10	16:53	0.75 y	92.78	7147100 9491060	436.1 267.8	y	n
	11	17:06	0.87 y	9.13	759959 876584	33.9 20.3	y	n
2,3,7,8-TCDF	12	17:16	0.78 y	137.10	10741700 13844400	548.9 323.3	y	n
	13	17:41	0.78 y	19.79	1558030 1990420	84.9 51.9	y	n
	14	17:56	0.72 y	9.41	705911 980730	30.1 17.9	y	n
	15	18:09	1.28 n	4.47	581350 452509	24.2 11.3	y	n

16	19:06	1.00	n	7.06	715225	39.4	y	n
					715188	17.4	y	n

Run Text: L7DQR-1-AA

Sample text: L7DQR-1-AA :G0I230491-7

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:12  
 Run: 12 File: 27SE101D5 S:22 Acq:28-SEP-10 00:30:45  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 23.52 of which 1.62 named and 21.90 unnamed  
 Conc: 47.04 of which 3.24 named and 43.80 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:44	0.72 y	4.05	183816 257051	12.2 13.8	y	n
	2	16:01	0.81 y	18.81	913853 1132260	55.6 54.4	y	n
	3	16:16	0.78 y	1.41	67077 86108	4.7 4.6	y	n
	4	16:50	0.79 y	6.36	304667 387528	15.3 18.7	y	n
	5	17:15	5.94 n	<del>0.49</del>	179970 30306	8.6 1.8	y	n
	6	17:26	0.79 y	2.44	117342 148427	6.6 8.2	y	n
	7	17:52	0.45 n	5.41	255974 574520	14.8 19.3	y	n
2,3,7,8-TCDD	8	17:58	0.70 y	3.24	145694 206830	9.7 11.3	y	n
	9	18:10	0.31 n	<del>0.80</del>	37963 122488	1.9 5.2	n	n
	10	18:19	0.78 y	2.80	133175 171676	4.7 6.9	y	n
	11	18:33	0.74 y	<del>0.59</del>	27064 36682	2.1 1.9	n	n
	12	19:01	1.68 n	<del>0.64</del>	66289 39450	3.4 2.1	y	n

Run Text: L7DQR-1-AA

Sample text: L7DQR-1-AA :G0I230491-7

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:12  
 Run: 12 File: 27SE101D5 S:22 Acq:28-SEP-10 00:30:45  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 192.12 of which 62.10 named and 130.01 unnamed  
 Conc: 384.23 of which 124.20 named and 260.03 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:45	1.55 y	15.34	1260280 815703	40.0 23.9	y	n
	2	20:57	1.61 y	96.00	8010290 4982150	191.9 114.5	y	n
	3	21:11	1.79 n	9.43	894555 500312	24.2 11.2	y	n
	4	21:27	1.53 y	14.58	1192850 780915	33.1 20.0	y	n
	5	21:51	1.66 y	43.06	3637450 2190450	70.0 41.2	y	n
1,2,3,7,8-PeCDF	6	22:19	1.39 y	90.89	7414200 5320340	222.9 129.0	y	n
	7	22:36	1.59 y	9.60	797942 501913	21.3 12.7	y	n
	8	22:52	1.44 y	30.38	2426760 1684090	54.7 37.2	y	n
2,3,4,7,8-PeCDF	9	23:39	1.76 y	33.32	2776250 1573420	65.5 37.3	y	n
	10	23:59	1.40 y	26.94	2129740 1516760	32.9 23.3	y	n
	11	24:31	1.80 n	6.39	610933 338984	14.1 9.0	y	n
	12	25:36	1.61 y	8.30	693704 430205	14.6 10.1	y	n

*See  
3A*

Run Text: L7DQR-1-AA

Sample text: L7DQR-1-AA :G0I230491-7

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? yes #Hom:13  
 Run: 12 File: 27SE101D5 S:22 Acq:28-SEP-10 00:30:45  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 196.23 of which 60.11 named and 136.12 unnamed  
 Conc: 392.46 of which 120.22 named and 272.24 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:45	1.55 y	15.34	1260280 815702	40.0 23.9	y	n
	2	20:57	1.61 y	96.00	8010290 4982150	191.9 114.5	y	n
	3	21:11	1.79 n	9.43	894555 500312	24.2 11.2	y	n
	4	21:27	1.53 y	14.58	1192850 780915	33.1 20.0	y	n
	5	21:51	1.66 y	43.06	3637450 2190450	70.0 41.2	y	n
	6	22:11	1.60 y	12.21	1017190 635003	34.5 20.5	y	n
1,2,3,7,8-PeCDF	7	22:19	1.56 y	86.91	7414200 4762900	222.9 129.5	y	n
	8	22:36	1.59 y	9.60	797944 501912	21.3 12.7	y	n
	9	22:52	1.44 y	30.38	2426770 1684080	54.7 37.2	y	n
2,3,4,7,8-PeCDF	10	23:39	1.76 y	33.32	2776250 1573420	65.5 37.3	y	n
	11	23:59	1.40 y	26.94 <del>*</del>	2129740 1516760	32.9 23.3	y	n
	12	24:31	1.80 n	6.39	610933 338984	14.1 9.0	y	n
	13	25:36	1.61 y	8.30	693705 430205	14.6 10.1	y	n

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Artifact  
9/30/10  
WB



Run Text: L7DQR-1-AA

Sample text: L7DQR-1-AA :G0I230491-7

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:7  
 Run: 12 File: 27SE101D5 S:22 Acq:28-SEP-10 00:30:45  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 7.07 of which \* named and 7.07 unnamed  
 Conc: 14.13 of which \* named and 14.13 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:19	0.61 n	2.66	218877 355995	20.5 26.5	y	n
	2	17:46	0.51 n	0.25	20622 40633	2.1 1.8	n	n
	3	18:34	0.63 n	0.23	18733 29572	1.8 2.7	n	n
	4	18:57	0.53 n	2.29	188352 352264	14.1 22.3	y	n
	5	19:06	0.22 n	0.08	6558 29224	0.7 2.1	n	n
	6	19:23	1.17 n	8.30	682693 582653	47.5 32.4	y	n
	7	20:12	1.23 n	0.32	26599 21596	2.7 1.7	n	n

Run Text: L7DQR-1-AA

Sample text: L7DQR-1-AA :G0I230491-7

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:8  
 Run: 12 File: 27SE101D5 S:22 Acq:28-SEP-10 00:30:45  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 22.05 of which 2.90 named and 19.16 unnamed  
 Conc: 44.11 of which 5.79 named and 38.32 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	21:07	1.38 y	5.85	254136 184448	7.4 15.1	y	n
	2	22:20	1.35 y	6.13	264582 195383	8.8 14.9	y	n
	3	22:54	1.33 y	12.31	527986 395633	18.7 23.1	y	n
	4	23:34	3.52 n	<del>0.40</del>	41777 11872	1.4 1.2	n	n
	5	23:45	1.77 y	2.00	95960 54170	2.7 3.9	n	n
	6	24:02	2.20 n	<u>11.10</u>	719049 326569	19.3 16.9	y	n
1,2,3,7,8-PeCDD	7	24:22	1.46 y	5.79	257532 176955	7.7 11.1	y	n
	8	24:39	0.77 n	<del>0.52</del>	23644 30550	1.1 3.0	n	n

Run Text: L7DQR-1-AA

Sample text: L7DQR-1-AA :G0I230491-7

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:12  
 Run: 12 File: 27SE101D5 S:22 Acq:28-SEP-10 00:30:45  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 331.10 of which 194.23 named and 136.87 unnamed  
 Conc: 662.21 of which 388.47 named and 273.74 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	27:51	1.21	y 46.64	3023860 2494500	66.9 46.8	y	n
	2	28:10	1.33	y 92.27	6222060 4695420	139.1 93.0	y	n
	3	28:27	1.23	y 4.68	306109 247890	7.9 5.2	y	n
	4	28:41	1.22	y 15.43	1002330 823630	25.0 18.3	y	n
	5	28:56	1.35	y 17.84	1212640 897753	34.6 23.7	y	n
1,2,3,4,7,8-HxCDF	6	29:28	1.30	y 189.16	11401200 8773160	338.7 230.5	y	n
1,2,3,6,7,8-HxCDF	7	29:37	1.27	y 110.49	8005960 6302780	276.8 194.2	y	n
	8	29:44	1.16	y 36.27	2301720 1989430	77.9 54.1	y	n
	9	29:59	1.29	y 34.88	2323850 1802550	54.9 39.3	y	n
2,3,4,6,7,8-HxCDF	10	30:10	1.32	y 67.57	4575620 3467690	97.9 67.0	y	n
1,2,3,7,8,9-HxCDF	11	30:58	1.32	y 21.25	1428470 1080450	53.7 35.3	y	n
	12	31:02	1.31	y 25.74	1727130 1318280	59.7 43.7	y	n

*See 6A*

Run Text: L7DQR-1-AA

Sample text: L7DQR-1-AA :G0I230491-7

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? yes #Hom:14  
 Run: 12 File: 27SE101D5 S:22 Acq:28-SEP-10 00:30:45  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 329.90 of which 157.56 named and 172.35 unnamed  
 Conc: 659.81 of which 315.11 named and 344.70 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	27:51	1.21 y	46.64	3023860 2494500	66.9 46.8	y	n
	2	28:10	1.33 y	92.27	6222060 4695420	139.1 93.0	y	n
	3	28:27	1.23 y	4.68	306109 247890	7.9 5.2	y	n
	4	28:41	1.22 y	15.43	1002330 823630	25.0 18.3	y	n
	5	28:56	1.35 y	17.84	1212640 897753	34.6 23.7	y	n
	6	29:26	1.24 y	32.05	2097440 1694190	182.5 131.4	y	y
1,2,3,4,7,8-HxCDF	7	29:28	1.31 y	154.46	9332880 7141170	338.9 231.0	y	y
1,2,3,6,7,8-HxCDF	8	29:37	1.26 y	110.37	7974070 6319940	277.0 194.7	y	y
	9	29:44	1.16 y	36.27	2301720 1989440	77.9 54.1	y	n
	10	29:59	1.29 y	34.87	2323840 1802550	54.9 39.3	y	n
	11	30:10	1.29 y	38.91	2591710 2011800	98.1 67.5	y	y
2,3,4,6,7,8-HxCDF	12	30:14	1.29 y	29.03	1944410 1511000	66.5 48.2	y	y
1,2,3,7,8,9-HxCDF	13	30:58	1.32 y	21.25	1428470 1080450	53.7 35.3	y	n
	14	31:02	1.31 y	25.74	1727130 1318280	59.7 43.7	y	n

GA

Run Text: L7DQR-1-AA

Sample text: L7DQR-1-AA :G0I230491-7

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:9  
 Run: 12 File: 27SE101D5 S:22 Acq:28-SEP-10 00:30:45  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 24.46 of which 9.45 named and 15.01 unnamed  
 Conc: 48.91 of which 18.90 named and 30.01 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	28:51	1.16 y	3.29	144396 124386	6.6 4.3	y	n
	2	29:30	1.73 n	12.81	805904 467029	30.6 16.8	y	n
	3	29:47	1.26 y	11.57	526547 418378	27.3 20.6	y	n
	4	29:57	1.10 y	<del>0.99</del>	42407 38532	2.1 1.7	n	n
	5	30:14	3.64 n	<del>0.63</del>	83754 22995	4.7 1.5	y	n
1,2,3,4,7,8-HxCDD	6	30:23	1.08 y	3.60	141638 131595	8.5 6.9	y	n
1,2,3,6,7,8-HxCDD	7	30:29	1.00 n	6.05	259284 259526	13.6 14.0	y	n
1,2,3,7,8,9-HxCDD	8	30:47	1.36 y	9.25	488688 359879	24.3 18.0	y	n
	9	31:41	0.52 n	<del>0.72</del>	32636 62278	2.2 3.0	n	n

Run Text: L7DQR-1-AA

Sample text: L7DQR-1-AA :G0I230491-7

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:6  
 Run: 12 File: 27SE101D5 S:22 Acq:28-SEP-10 00:30:45  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 455.56 of which 323.16 named and 132.40 unnamed  
 Conc: 911.12 of which 646.32 named and 264.80 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	32:23	1.05	y	478.42	26156200	727.0	y n
						24976800	689.6	y n
	2	32:36	1.06	y	98.36	5083420	132.3	y n
					4785320	120.5	y n	
3	32:43	1.04	y	159.87	8184880	228.9	y n	
					7855930	210.5	y n	
4	33:18	0.66	n	<del>3.09</del>	157911	4.3	y n	
					240416	6.8	y n	
1,2,3,4,7,8,9-HpCDF	5	33:35	1.10	y	167.90	8236840	214.0	y n
						7511720	192.7	y n
6	34:47	1.06	y	<del>3.49</del>	180215	4.5	y n	
					169995	4.8	y n	

Run Text: L7DQR-1-AA

Sample text: L7DQR-1-AA :G0I230491-7

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:7  
 Run: 12 File: 27SE101D5 S:22 Acq:28-SEP-10 00:30:45  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 31.31 of which 18.24 named and 13.06 unnamed  
 Conc: 62.61 of which 36.48 named and 26.13 unnamed

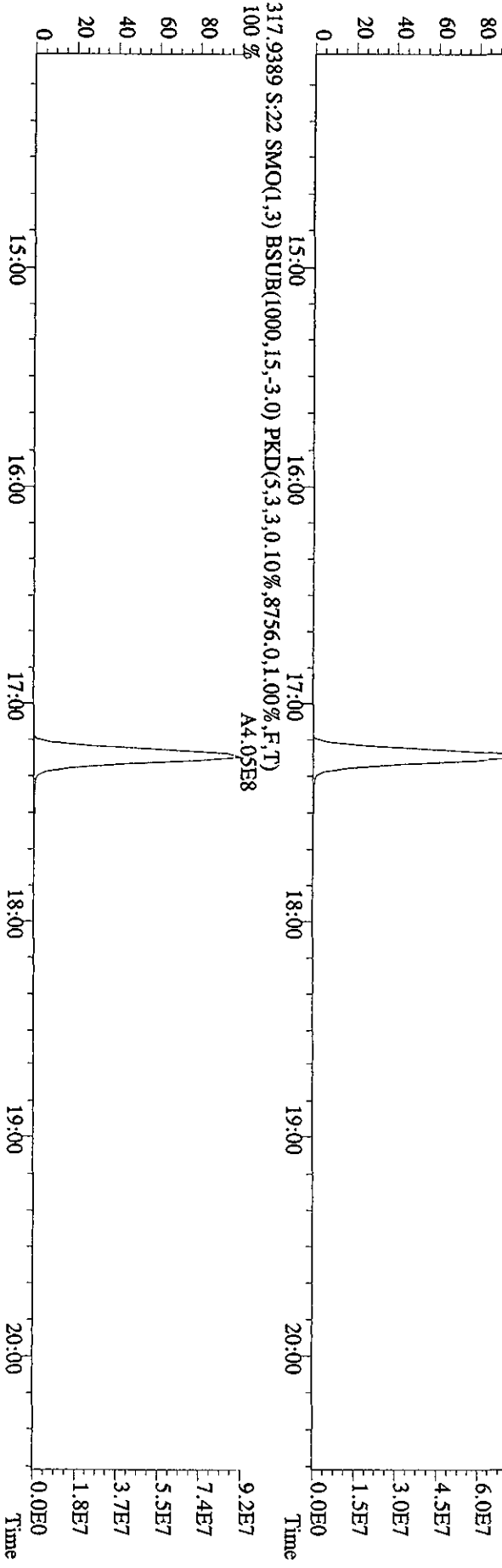
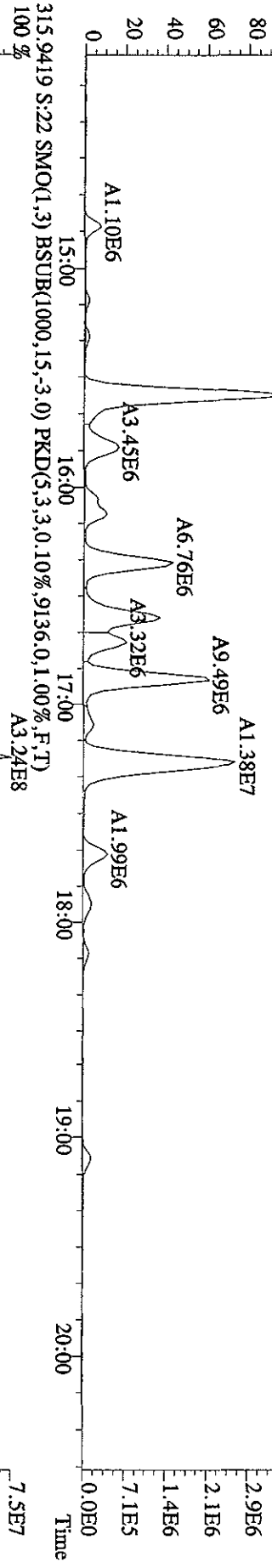
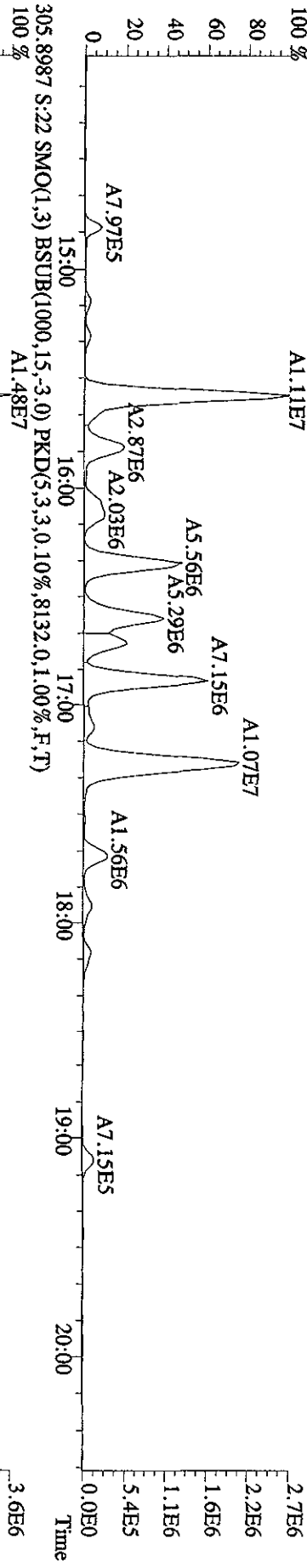
Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:23	2.40	<del>n 1.11</del>	94702 39475	7.0 3.3	y	n
	2	32:38	1.14	y 17.75	685690 602315	48.5 49.6	y	n
1,2,3,4,6,7,8-HpCDD	3	33:15	1.09	y 36.48	1380390 1267220	85.3 93.8	y	n
	4	33:34	1.10	y 1.66	62999 57494	4.7 5.0	y	n
	5	33:43	1.02	y 0.68	25031 24575	1.6 1.3	n	n
	6	34:12	0.91	y 0.43	14953 16477	1.4 1.6	n	n
	7	34:47	1.22	n 4.49	195507 159783	14.6 13.3	y	n

Run text: L7DQR-1-AA Sample text: L7DQR-1-AA :G0I230491-7  
 Run #12 Filename: 27SE101D5 S: 22 I: 1 Results: 27SE101D5TO9  
 Acquired: 28-SEP-10 00:30:45 Processed: 28-SEP-10 09:22:56  
 Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5  
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000Sample

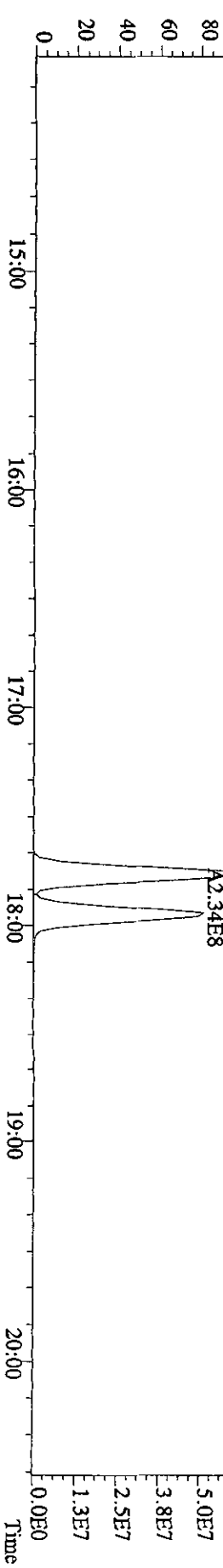
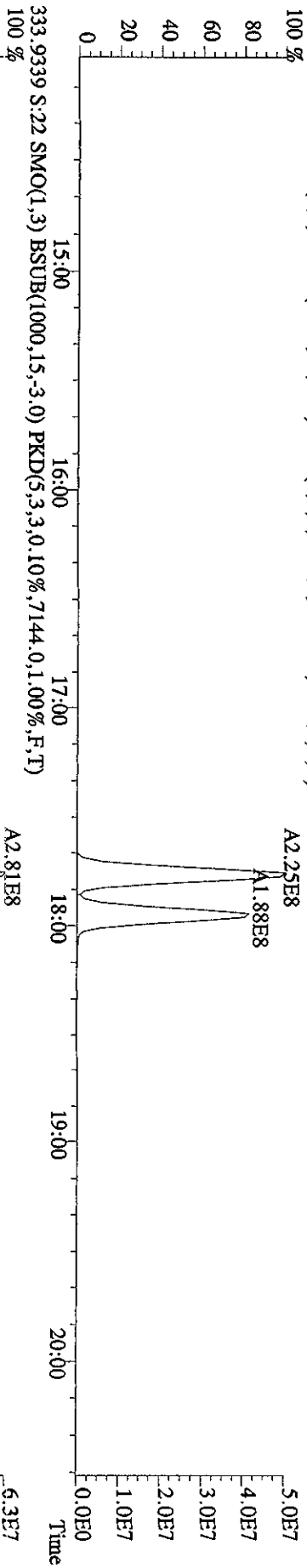
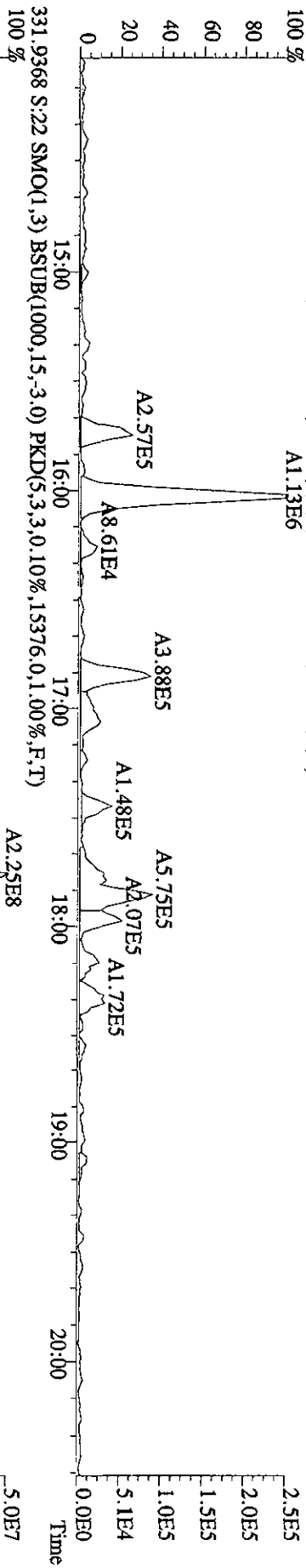
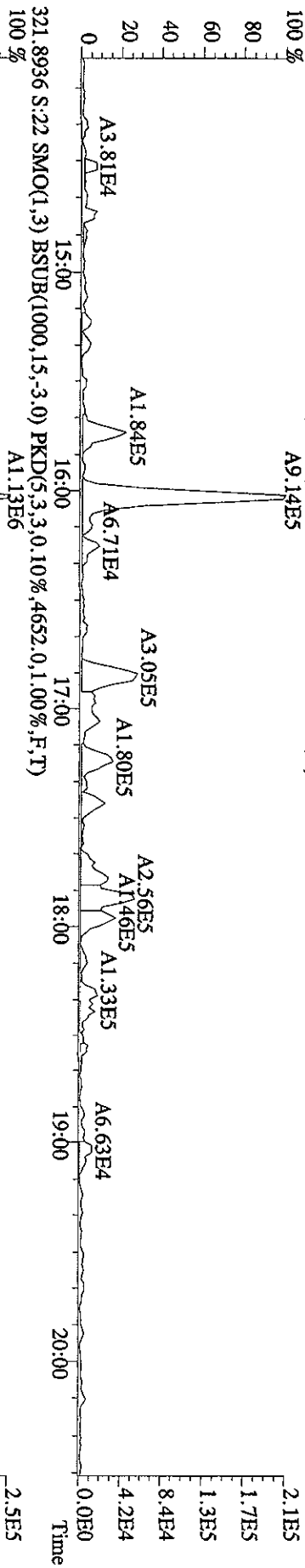
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	505878000	0.80 y	17:45	-	289.54	-	-	n
13C-2,3,7,8-TCDF	729157000	0.80 y	17:15	1.56	3688.56	1.21	92.2	n
2,3,7,8-TCDF	24586100	0.78 y	17:16	0.98	137.10	0.87	-	n
Total TCDF	120008334	0.73 y	14:49	0.98	669.21	0.87	-	n
13C-2,3,7,8-TCDD	421872000	0.80 y	17:57	0.92	3622.32	2.59	90.6	n
2,3,7,8-TCDD	352524	0.70 y	17:58	1.03	3.24	1.05	-	n
Total TCDD	5118391	0.72 y	15:44	1.03	47.04	1.05	-	n
37Cl-2,3,7,8-TCDD	233624000	1.00 y	17:58	1.23	1806.38	1.16	112.9	n
13C-1,2,3,7,8-PeCDF	513167000	1.65 y	22:17	1.05	3855.02	1.57	96.4	n
1,2,3,7,8-PeCDF	12734540	1.39 y	22:19	1.09	90.89	1.48	-	n
2,3,4,7,8-PeCDF	4349670	1.76 y	23:39	1.02	33.32	1.59	-	n
Total F2 PeCDF	52275617	1.55 y	20:45	1.05	384.23	1.54	-	n
Total F1 PeCDF	1912389	0.61 n	15:19	1.05	14.13	0.73	-	n
13C-1,2,3,7,8-PeCDD	280340000	1.64 y	24:20	0.56	3952.21	1.79	98.8	n
1,2,3,7,8-PeCDD	434487	1.46 y	24:22	1.07	5.79	1.89	-	n
Total PeCDD	3308708	1.38 y	21:07	1.07	44.11	1.89	-	n
13C-1,2,3,7,8,9-HxCDD	443341000	1.27 y	30:46	-	270.15	-	-	n
13C-1,2,3,4,7,8-HxCDF	338326000	0.52 y	29:27	0.99	3080.72	2.42	77.0	n
1,2,3,4,7,8-HxCDF	20174360	1.30 y	29:28	1.26	189.16	1.74	-	n
1,2,3,6,7,8-HxCDF	14308740	1.27 y	29:37	1.53	110.49	1.44	-	n
2,3,4,6,7,8-HxCDF	8043310	1.32 y	30:10	1.41	67.57	1.56	-	n
1,2,3,7,8,9-HxCDF	2508920	1.32 y	30:58	1.40	21.25	1.57	-	n
Total HxCDF	77424482	1.21 y	27:51	1.40	662.21	1.57	-	n
13C-1,2,3,6,7,8-HxCDD	271153000	1.33 y	30:28	0.74	3308.30	1.71	82.7	n
1,2,3,4,7,8-HxCDD	273233	1.08 y	30:23	1.12	3.60	1.42	-	n
1,2,3,6,7,8-HxCDD	468384	1.00 n	30:29	1.14	6.05	1.40	-	n
1,2,3,7,8,9-HxCDD	848567	1.36 y	30:47	1.35	9.25	1.18	-	n
Total HxCDD	4041437	1.16 y	28:51	1.20	48.91	1.32	-	n
13C-1,2,3,4,6,7,8-HpCDF	303600700	0.46 y	32:23	0.96	2864.96	3.53	71.6	n
1,2,3,4,6,7,8-HpCDF	51133000	1.05 y	32:23	1.41	478.42	2.02	-	n
1,2,3,4,7,8,9-HpCDF	15748560	1.10 y	33:35	1.24	167.90	2.30	-	n
Total HpCDF	93451069	1.05 y	32:23	1.32	911.12	2.15	-	n
13C-1,2,3,4,6,7,8-HpCDD	255896000	1.07 y	33:14	0.71	3241.79	2.53	81.0	n
1,2,3,4,6,7,8-HpCDD	2647610	1.09 y	33:15	1.13	36.48	1.07	-	n
Total HpCDD	4543629	2.40 n	32:23	1.13	62.61	1.07	-	n
13C-OCDD	230124000	0.93 y	35:49	0.35	5887.04	3.49	73.6	n
OCDF	61307200	0.90 y	35:56	2.12	1006.50	1.87	-	n
OCDD	1619606	0.91 y	35:50	1.37	41.06	1.52	-	n



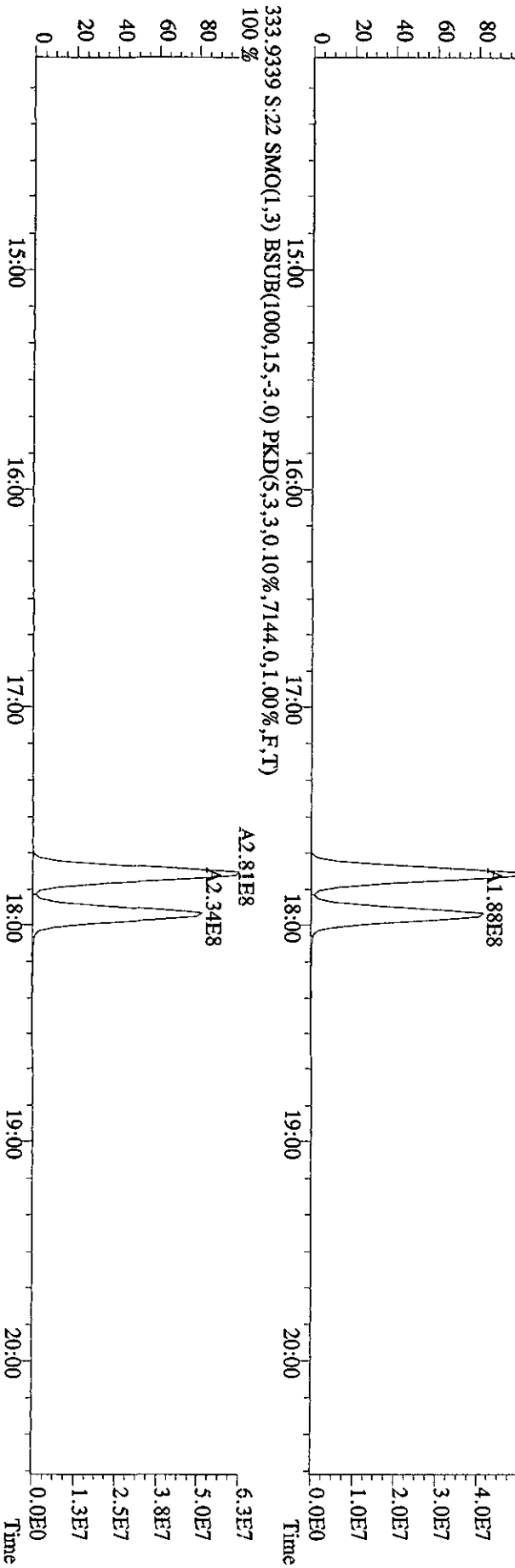
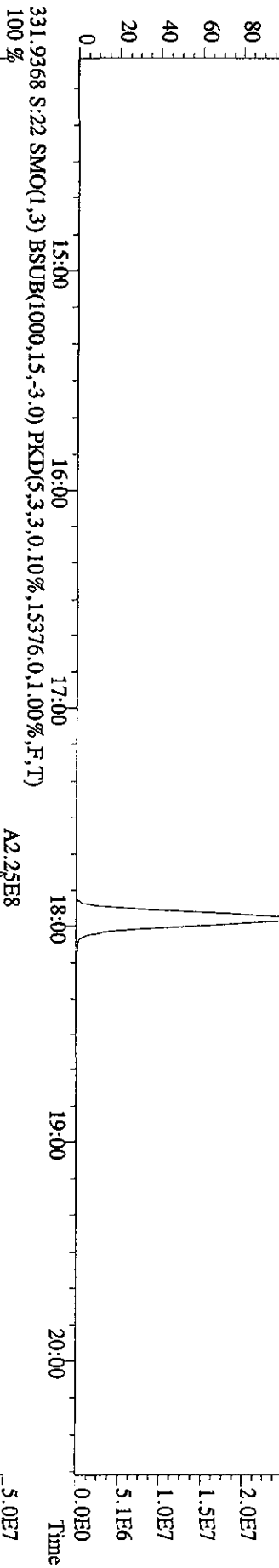
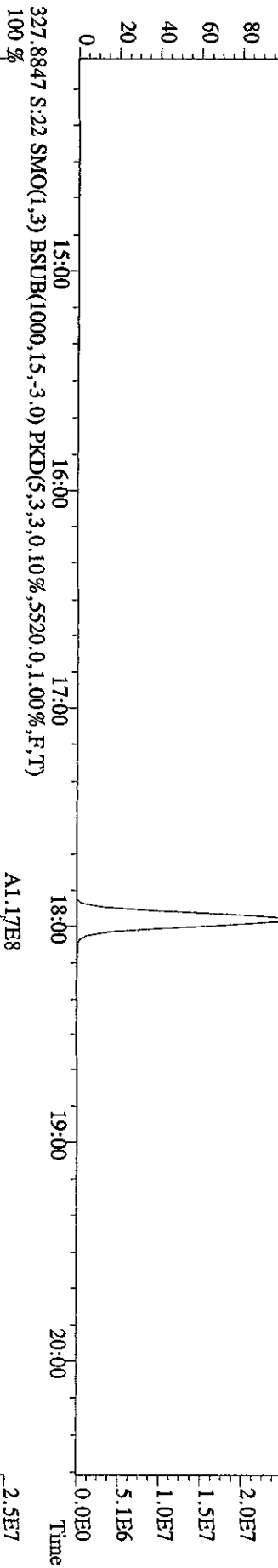
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 Sample# 22 Text: L7DQR-1-AA :G01230491-7 Exp: DIOXINRES  
 303.9016 S:22 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3736,0,1,00%,F,T)



File: 27SE101D5 #1-382 Acq: 28-SEP-2010 00:30:45 GC EI+ Voltage SIR 70SE  
 Sample#22 Text: L7DQR-1-AA :G01230491-7 Exp: DIOXINRES  
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 100%

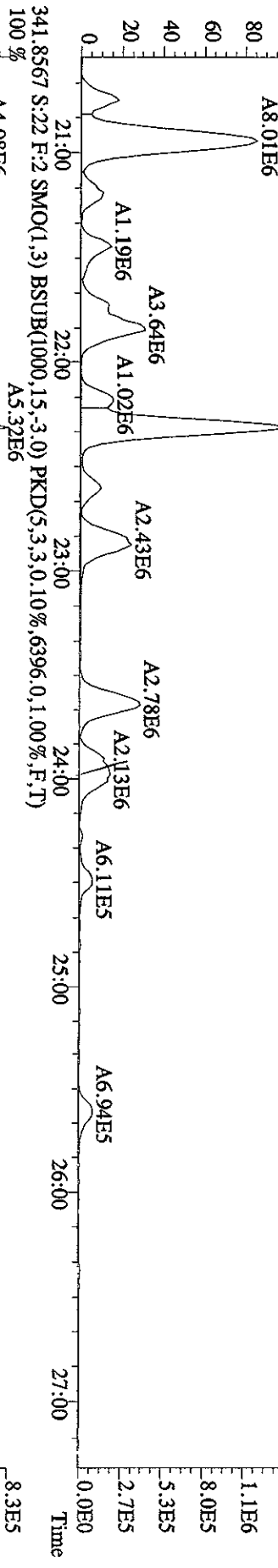


File: 27SE101D5 #1-382 Acq: 28-SEP-2010 00:30:45 GC EI+ Voltage STR 70SE  
 Sample# 22 Text: L7D QR-1-AA : G0I230491-7 Exp: DIOXINRES  
 327.8847 S: 22 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5520,0,1,00%,F,T)  
 100%

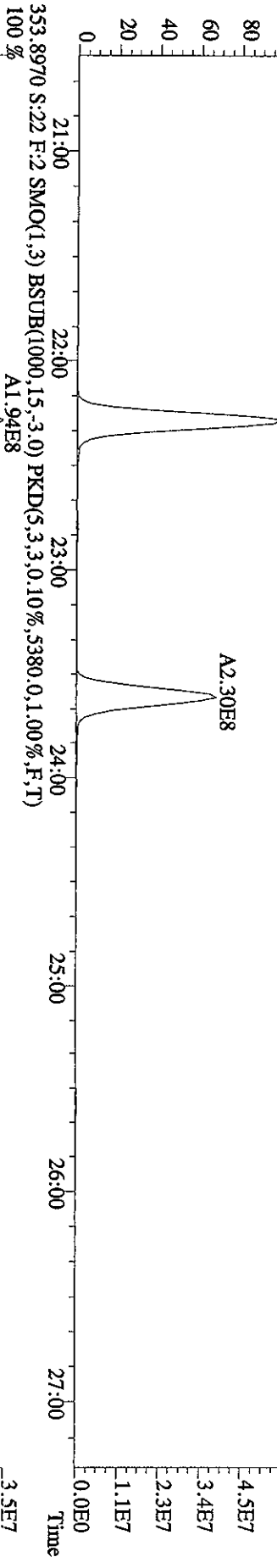


File: 27SEI0101D5 #1-422 Acq: 28-SEP-2010 00:30:45 GC EI+ Voltage: SIR 70SE  
 Sample#22 Text: L7DQR-1-AA :G01230491-7 Exp: DIOXINRES

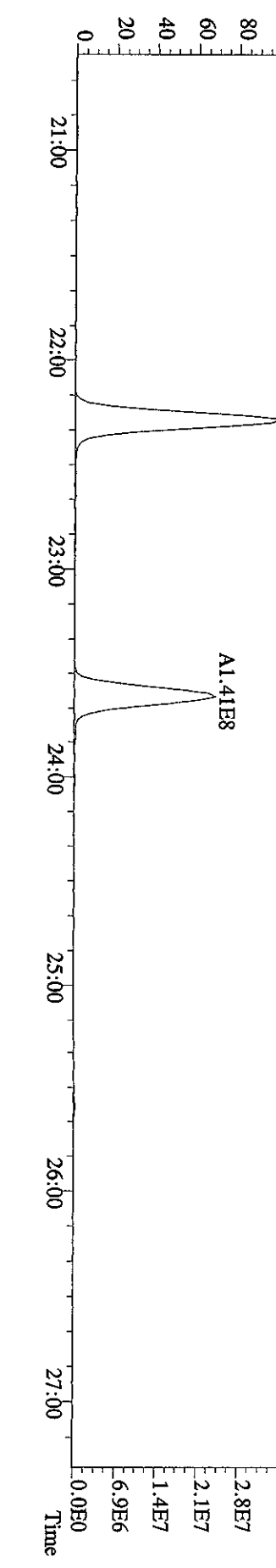
339.8597 S:22 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5932,0,1,00%,F,T)  
 100%



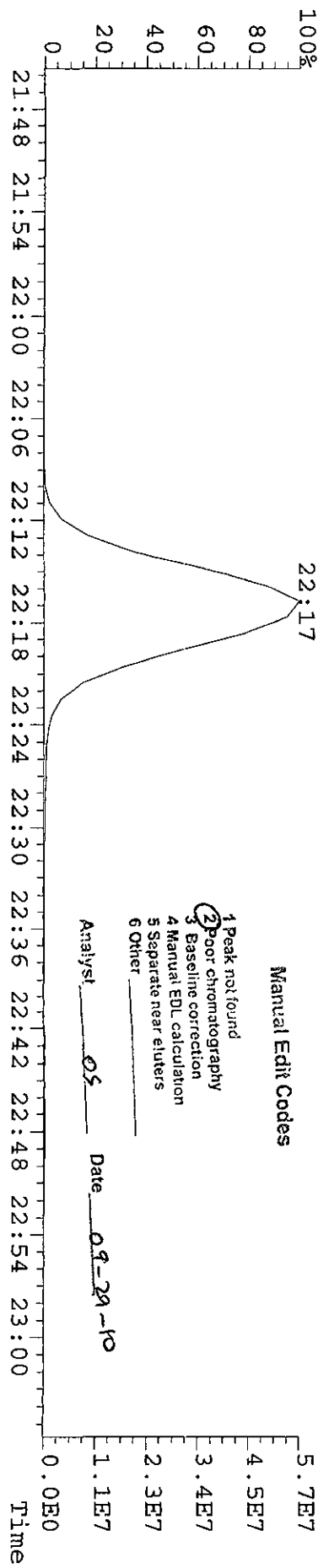
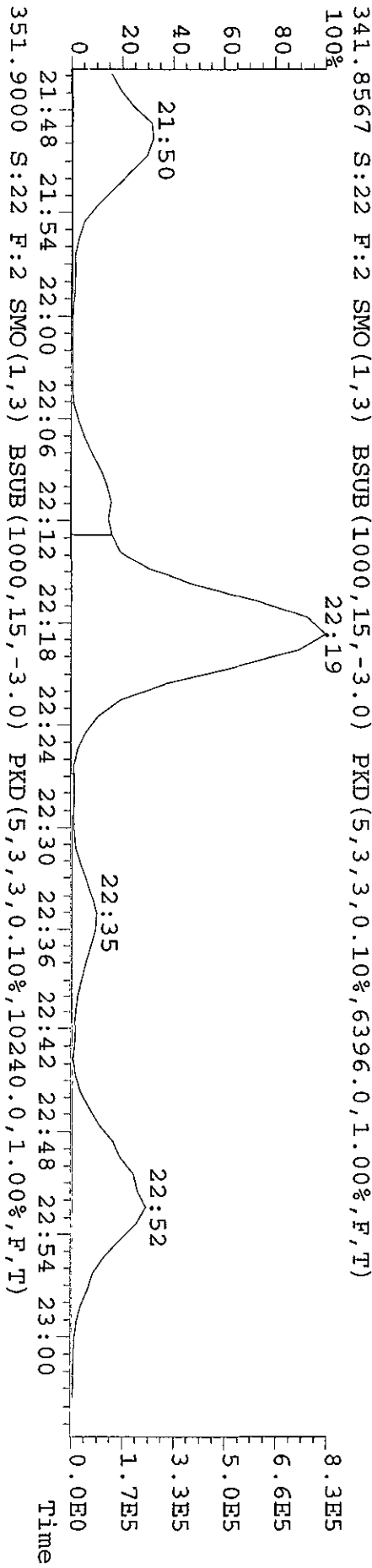
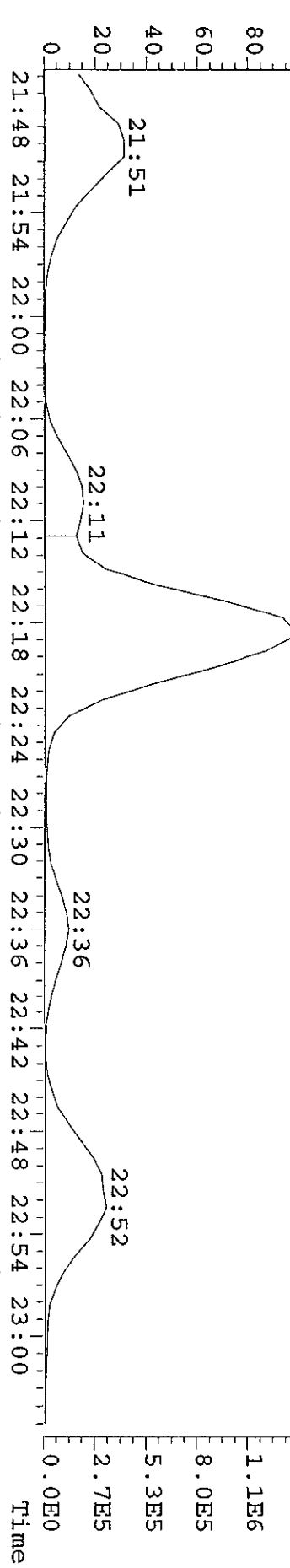
351.9000 S:22 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,10240,0,1,00%,F,T)  
 100%



353.8970 S:22 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5380,0,1,00%,F,T)  
 100%



File: 27SE101D5 #1-422 Acq: 28-SEP-2010 00:30:45 GC EI+ Voltage SIR 70SE  
 Sample#22 Text: L7DQR-1-AA : G0I230491-7 Exp: DIOXINRES  
 339.8597 S:22 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5932.0,1.00%,F,T)  
 100%

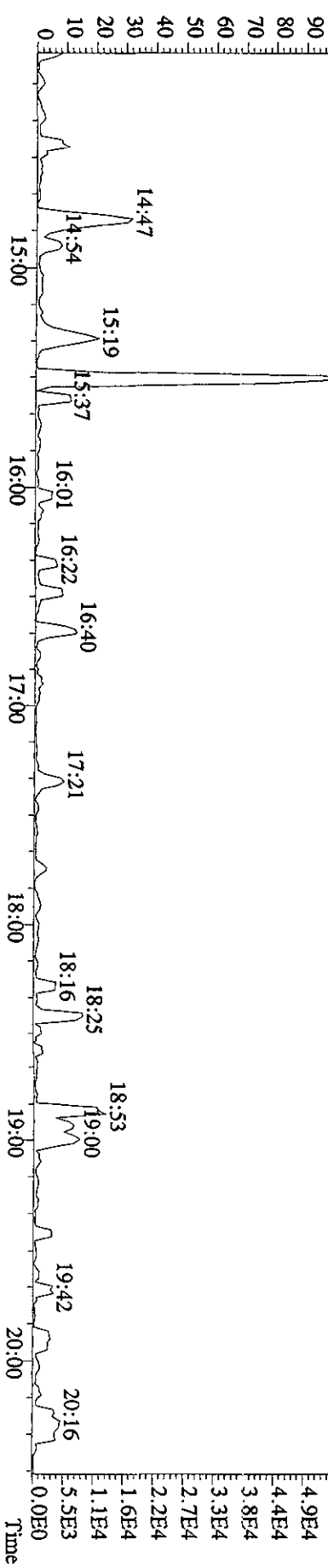
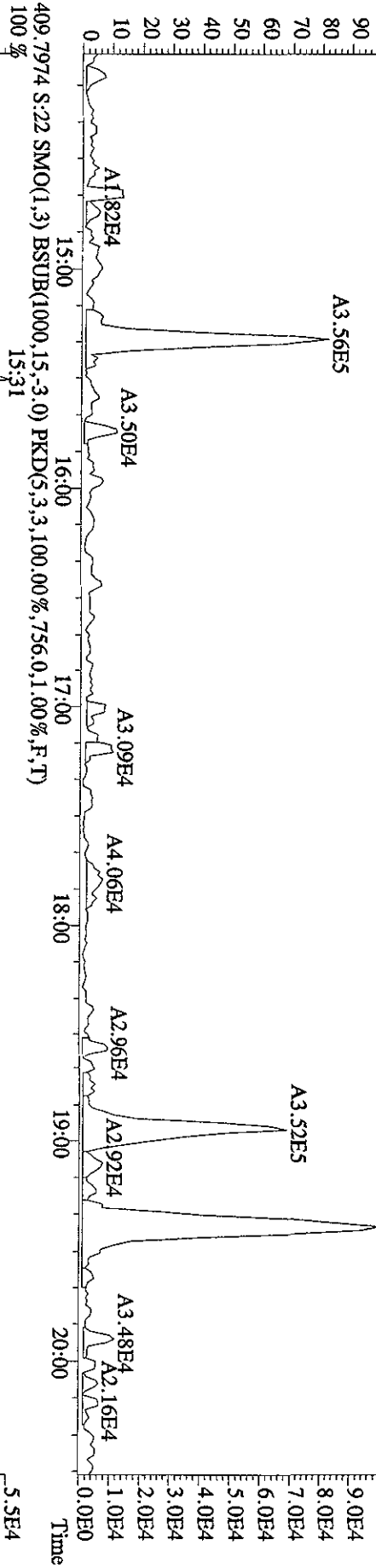
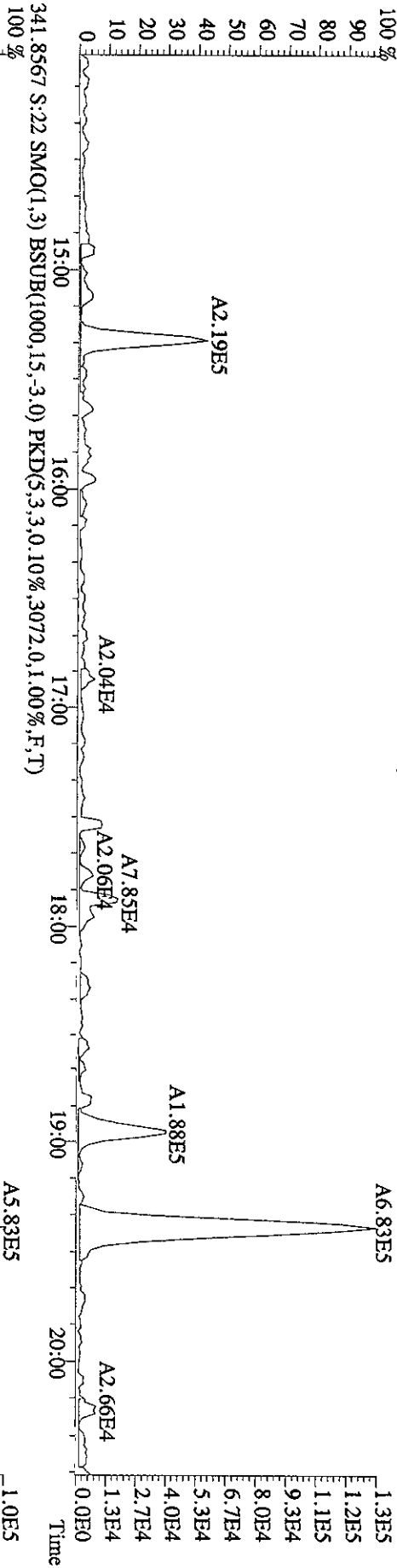


Manual Edit Codes

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

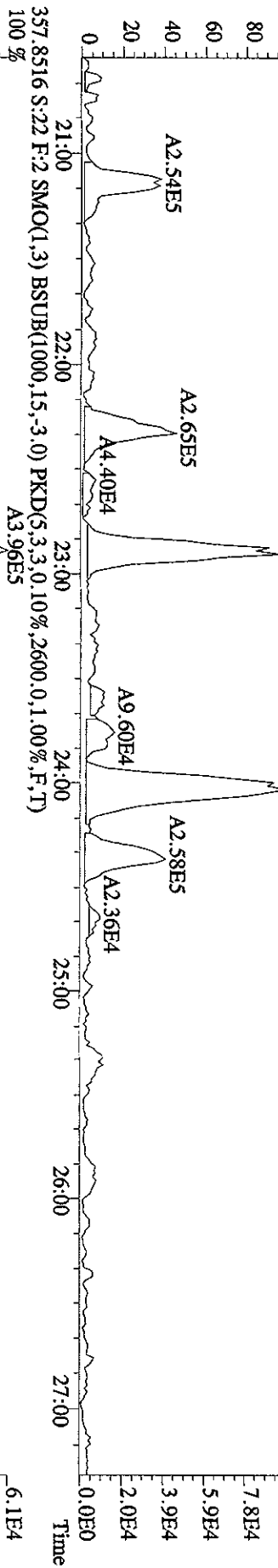
Analyst OS Date 09-29-10

File: 27SE101D5 #1-382 Acq: 28-SEP-2010 00:30:45 GC EI+ Voltage: SIR 70SE  
 Sample#22 Text: L7DQR-1-AA :G01230491-7 Exp: DIOXINRES  
 339.8597 S:22 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2776.0,1.00%,F,T)

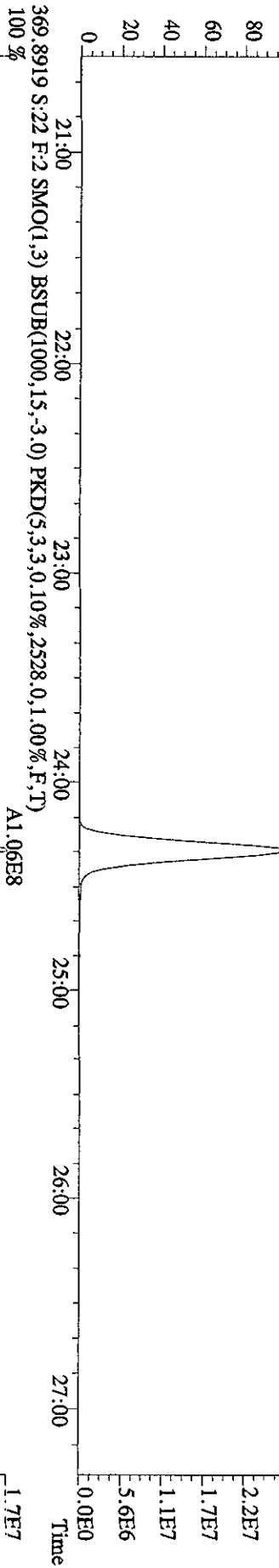


File: 27SEI01D5 #1-422 Acq: 28-SEP-2010 00:30:45 GC EI+ Voltage: SIR 70SE  
 Sample# 22 Text: L7DQR-1-AA : G01230491-7 Exp: DIOXINRES

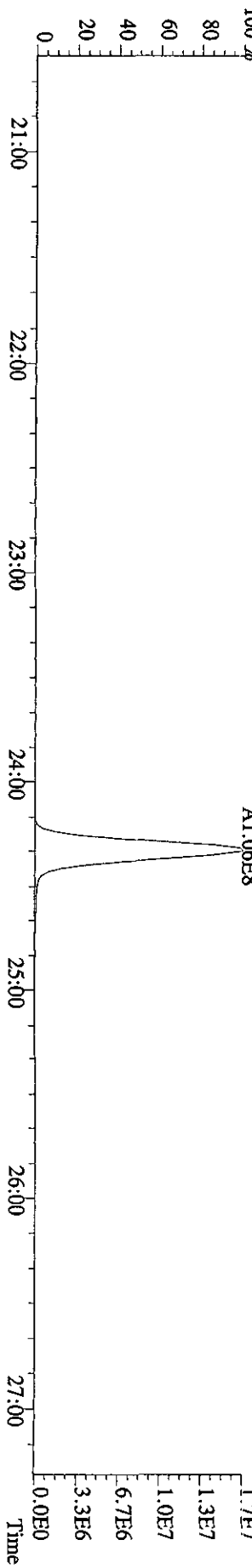
357.8516 S: 22 F: 2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2600.0,1.00%,F,T)  
 100% A5.28E5 A7.19E5



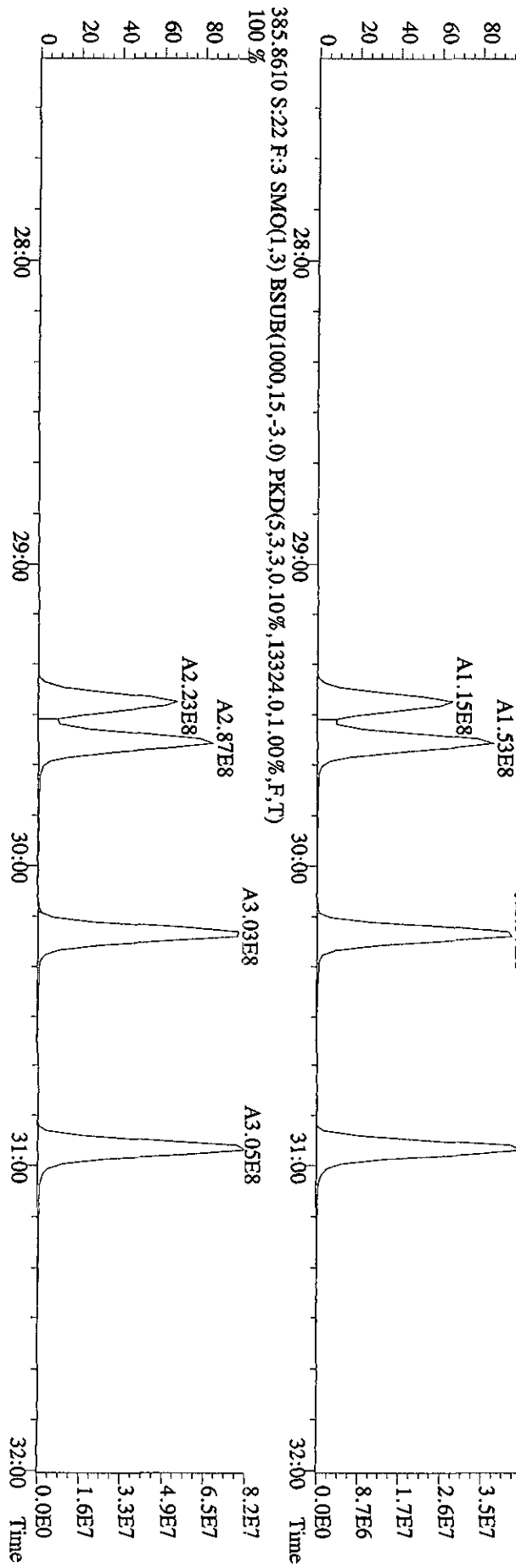
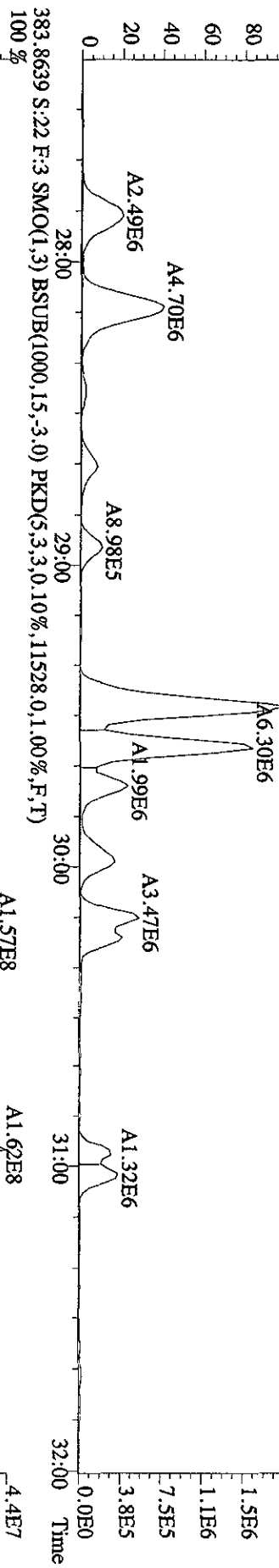
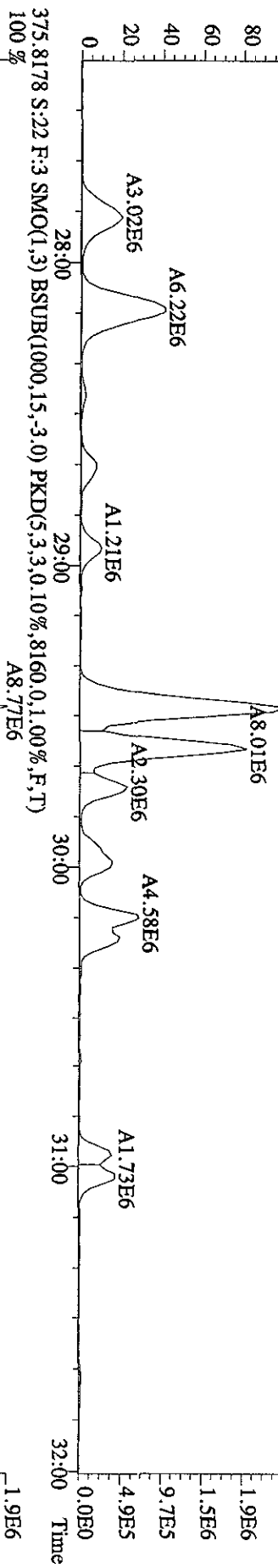
367.8949 S: 22 F: 2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6916.0,1.00%,F,T)  
 100% A1.74E8



369.8919 S: 22 F: 2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2528.0,1.00%,F,T)  
 100% A1.06E8



File:27SE101D5 #1-301 Acq:28-SEP-2010 00:30:45 GC EI+ Voltage SIR 70SE  
 Sample#22 Text:LTDQR-1-AA :G0I230491-7 Exp.:DIOXINRES  
 373.8208 S:22 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7172,0,1,00%,F,T)  
 100%

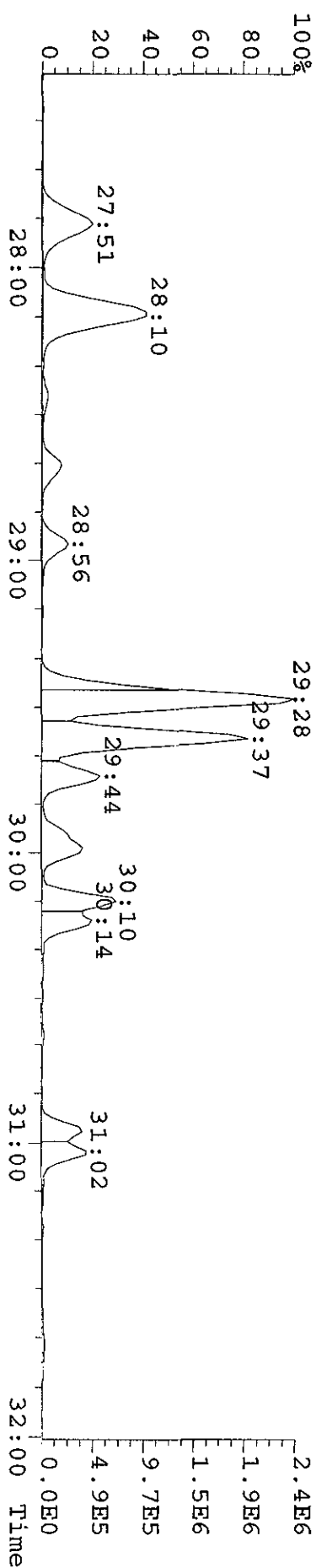




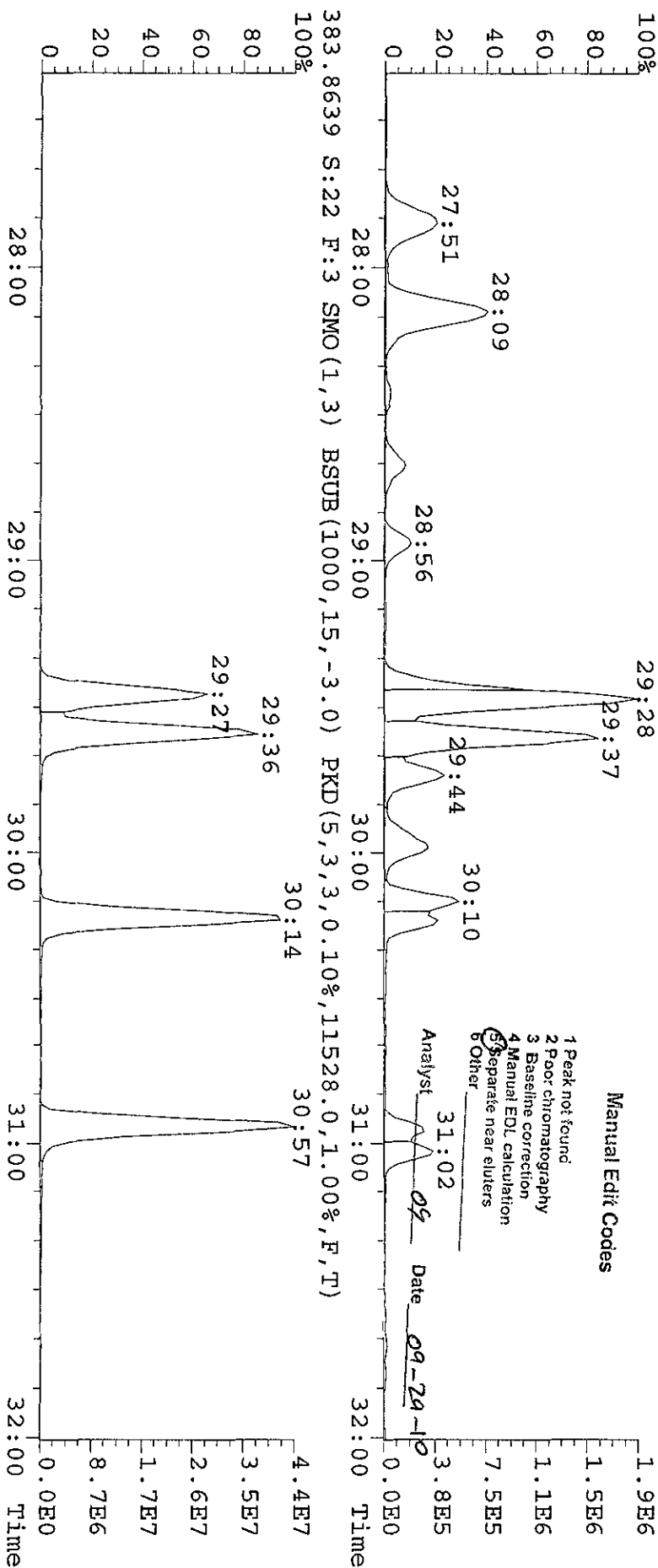
File: 27SE101D5 #1-301 Acq: 28-SEP-2010 00:30:45 GC EI+ Voltage SIR 70SE

Sample# 22 Text: L7DQR-1-AA : G0I230491-7 Exp: DIOXINRES

373.8208 S: 22 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7172.0,1.00%,F,T)

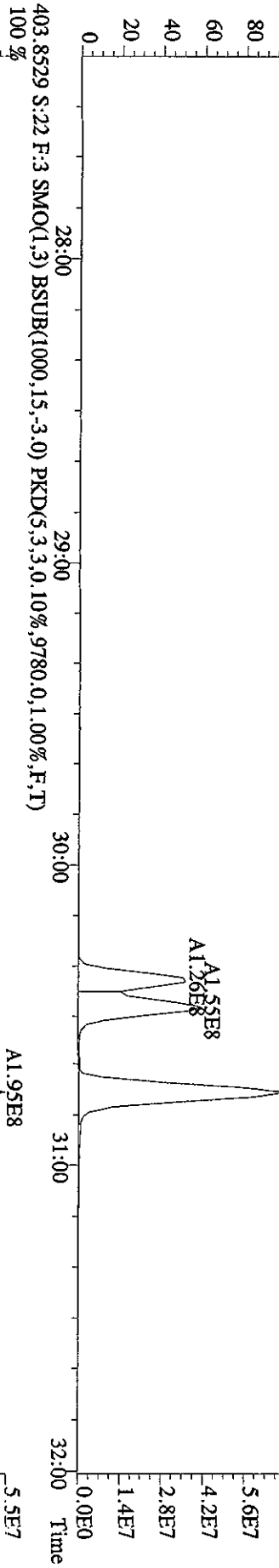
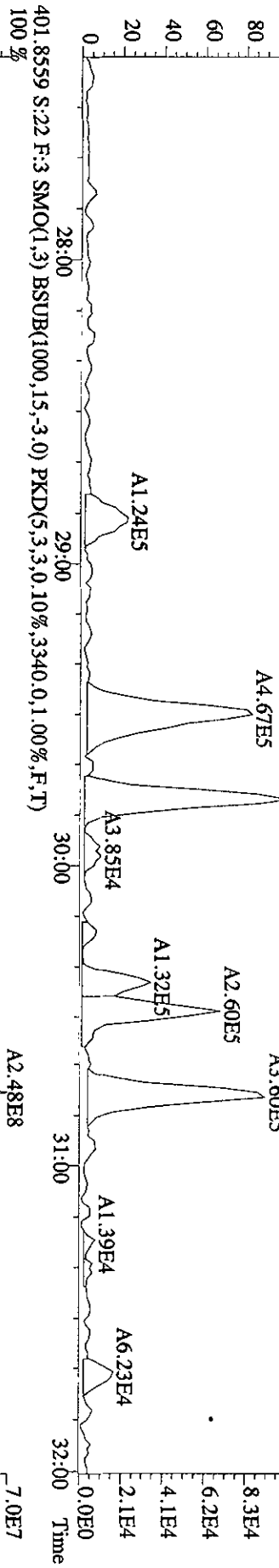
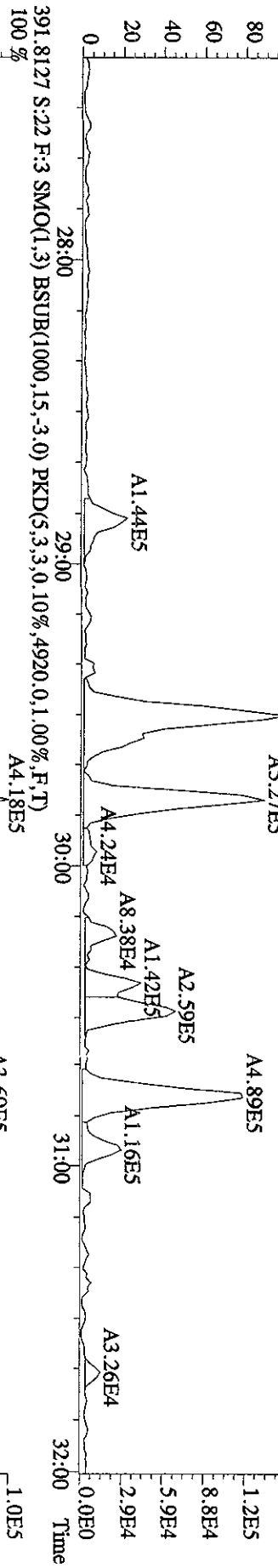


383.8639 S: 22 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11528.0,1.00%,F,T)

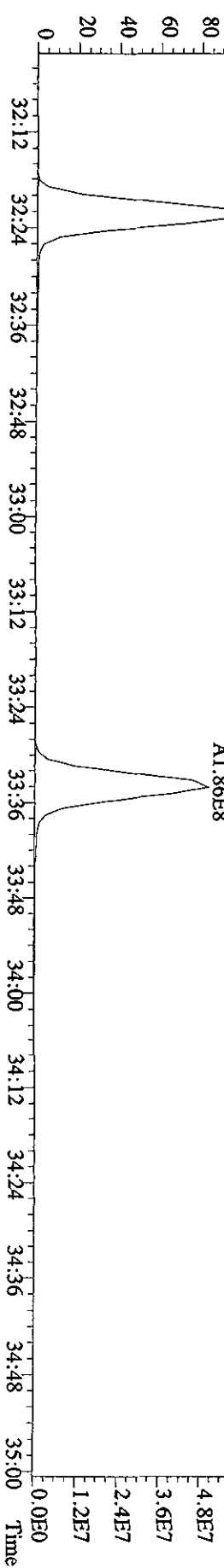
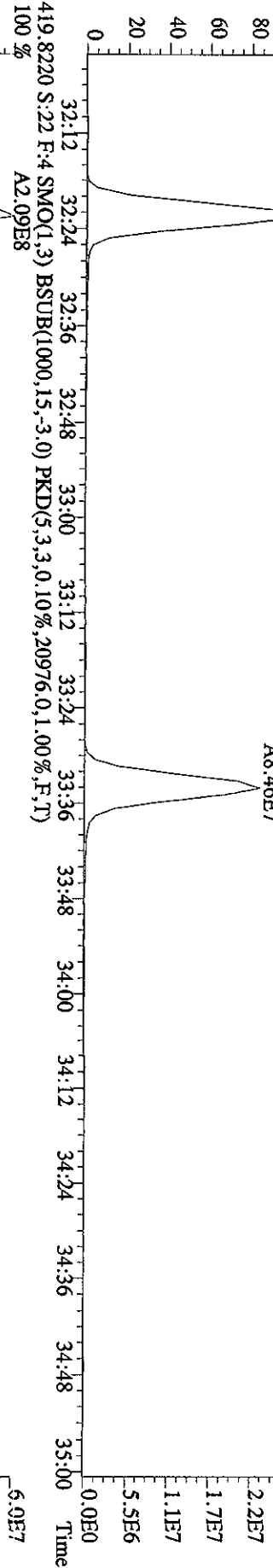
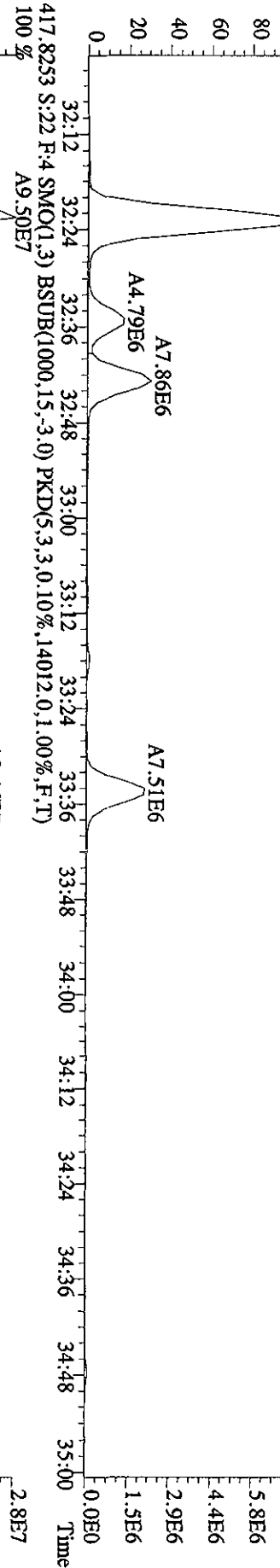
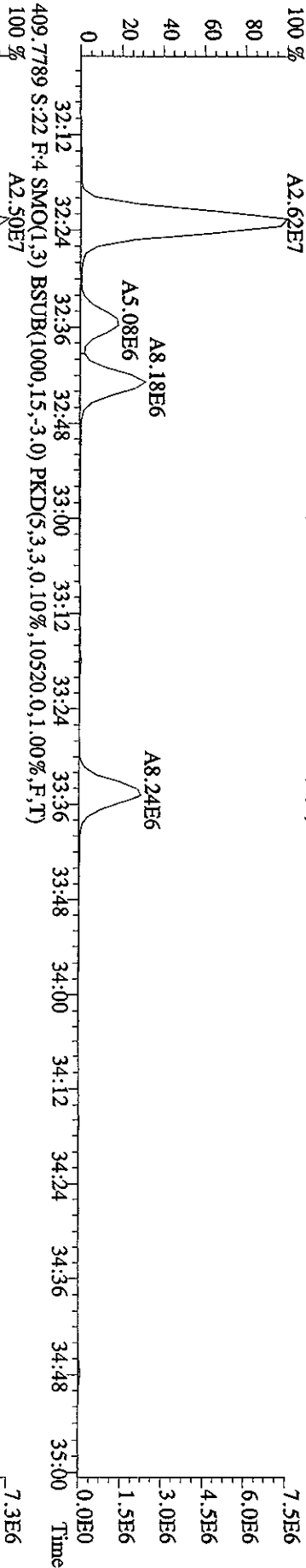


File: 27SE101D5 #1-301 Acq: 28-SEP-2010 00:30:45 GC EI+ Voltage: S1R 70SE  
Sample#22 Text: L7DQR-1-AA :G01230491-7 Exp: DIOXINRES

389.8157 S:22 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4728,0.1,00%,F,T)  
100%



407.7818 S:22 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,10308,0,1,00%,F,T)



File: 27SE101D5 #1-203 Acq: 28-SEP-2010 00:30:45 GC EI+ Voltage SIR 70SE

Sample# 22 Text: L7DQR-1-AA : G01230491-7

Exp: DIOXINRES

423.7766 S: 22 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3860.0,1.00%,F,T)

A1.38E6

3.3E5

A6.86E5

2.6E5

A9.47E4

1.3E5

425.7737 S: 22 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3468.0,1.00%,F,T)

A1.27E6

3.3E5

A6.02E5

2.6E5

A5.75E4

2.0E5

435.8169 S: 22 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9724.0,1.00%,F,T)

A1.32E8

1.3E5

A1.24E8

6.5E4

437.8140 S: 22 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8968.0,1.00%,F,T)

A1.24E8

7.5E6

437.8140 S: 22 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8968.0,1.00%,F,T)

A1.24E8

3.5E7

437.8140 S: 22 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8968.0,1.00%,F,T)

A1.24E8

2.8E7

437.8140 S: 22 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8968.0,1.00%,F,T)

A1.24E8

2.1E7

437.8140 S: 22 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8968.0,1.00%,F,T)

A1.24E8

1.4E7

437.8140 S: 22 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8968.0,1.00%,F,T)

A1.24E8

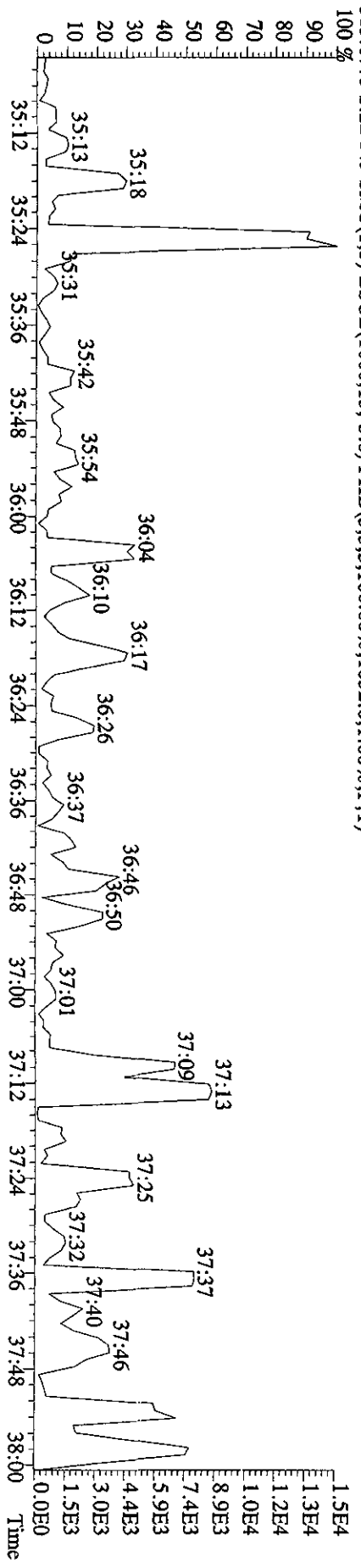
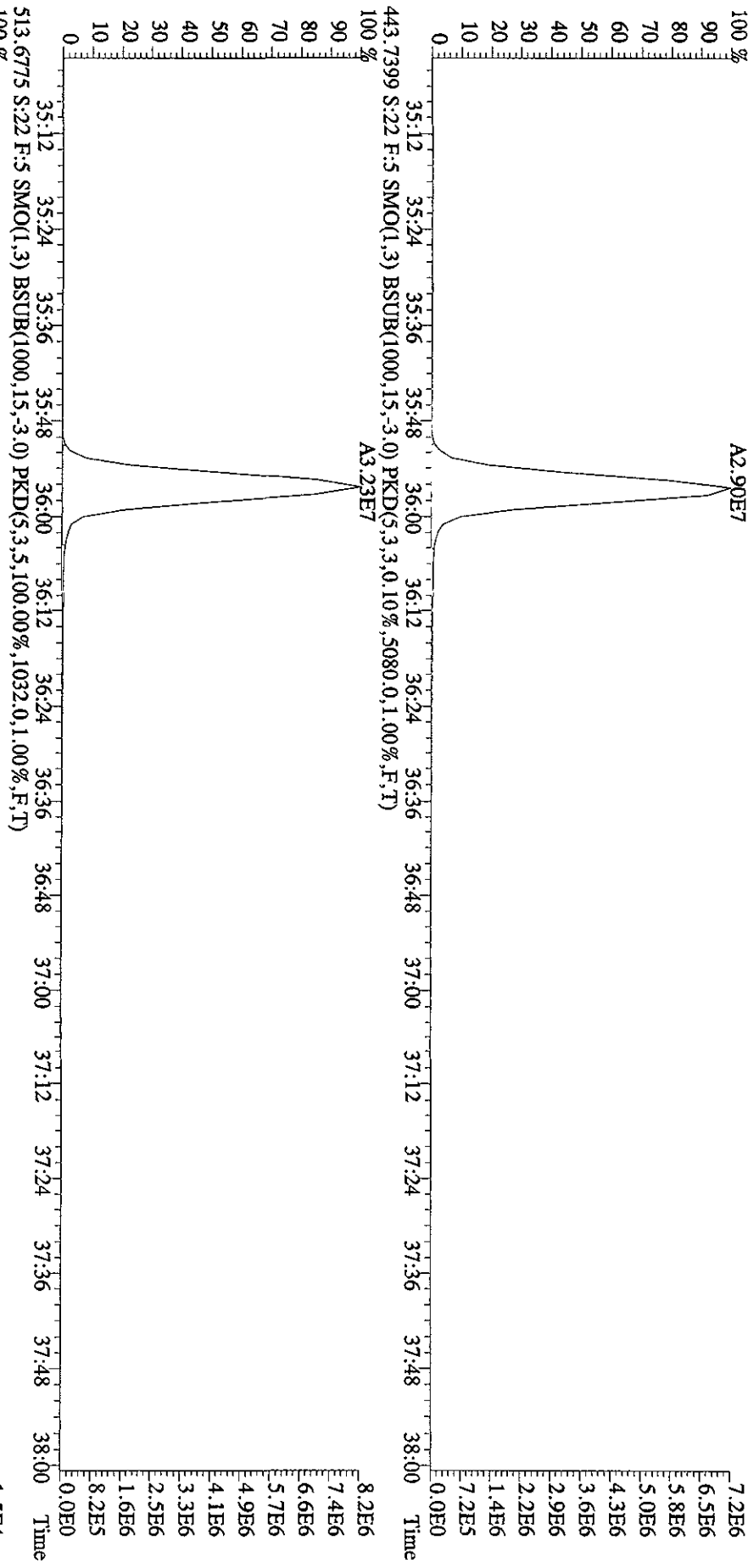
7.0E6

437.8140 S: 22 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8968.0,1.00%,F,T)

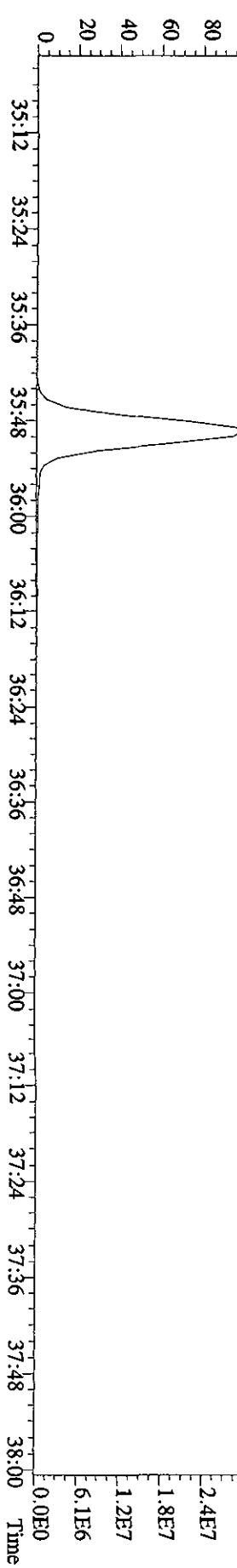
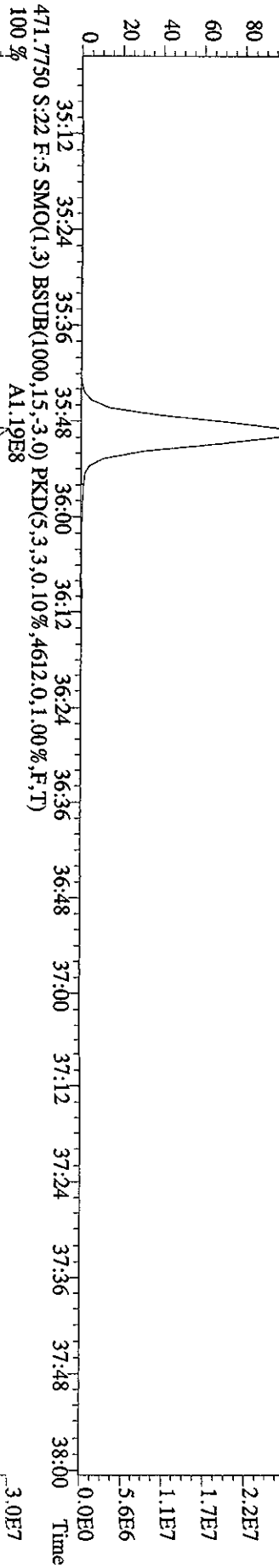
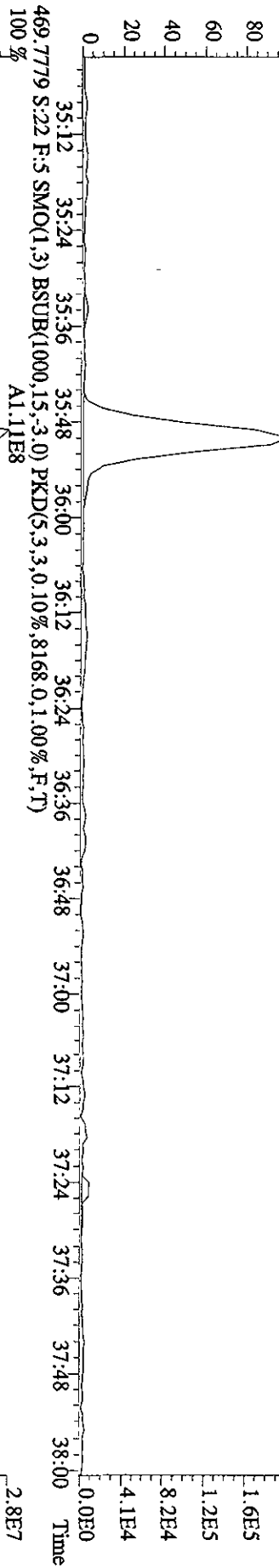
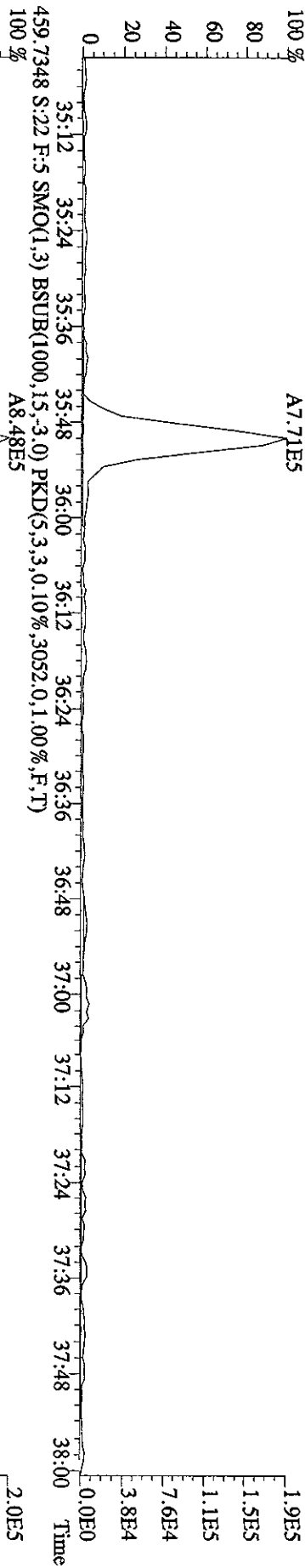
A1.24E8

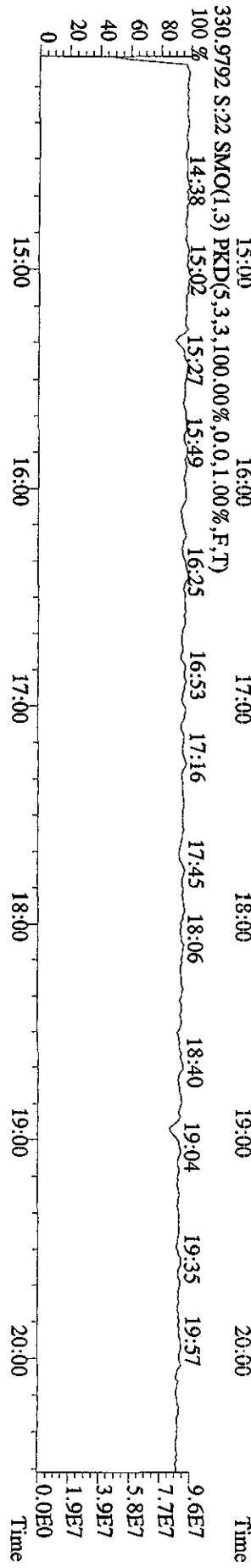
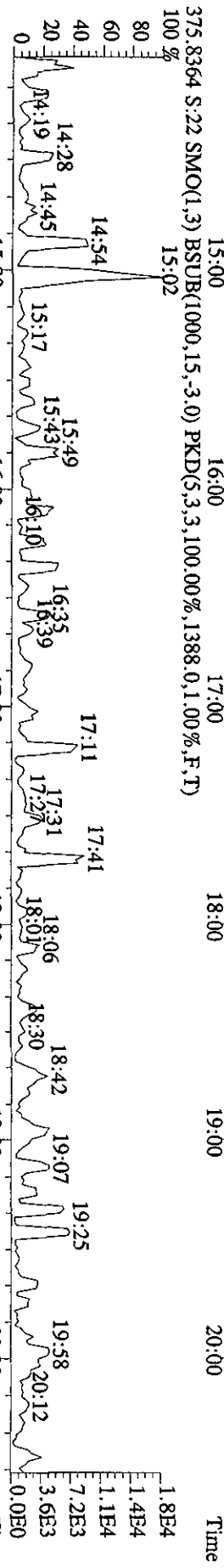
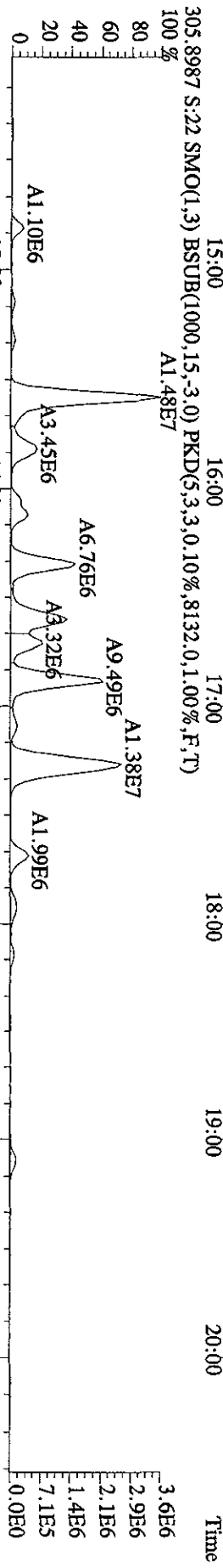
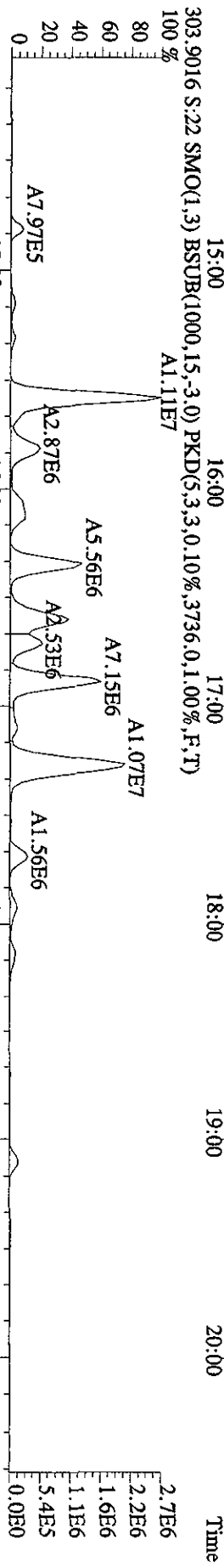
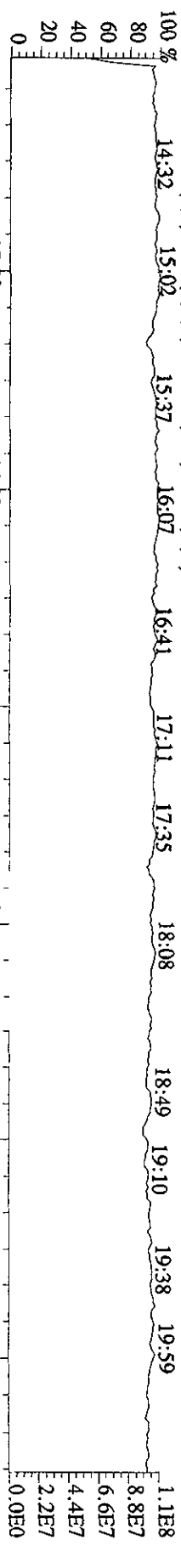
0.0E0

File: 27SE101D5 #1-196 Acq: 28-SEP-2010 00:30:45 GC: EI+ Voltage: SIR 70SE  
 Sample#22 Text: L7DQR-1-AA : G01230491-7 Exp: DIOXINRES  
 441.7428 S:22 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5080,0,1,100%,F,T)  
 A2.90E7

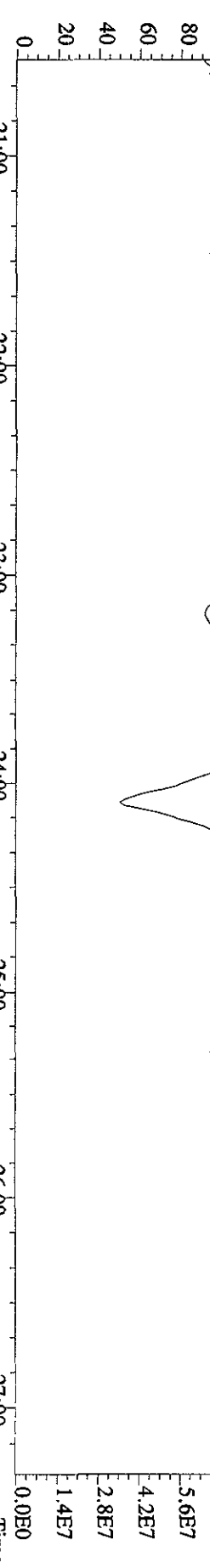


A7.71E5

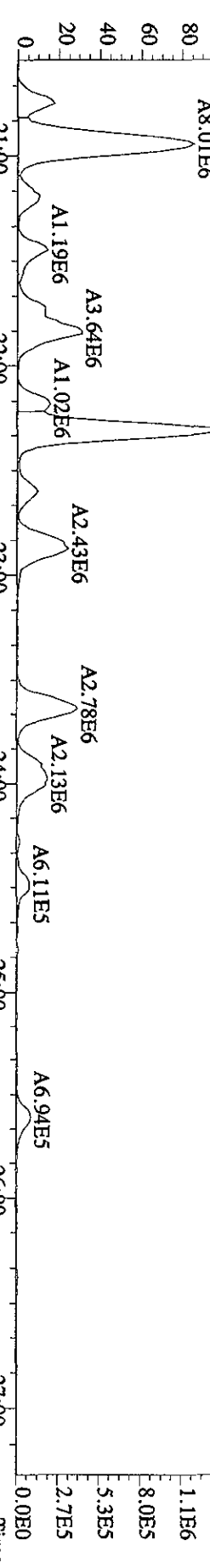




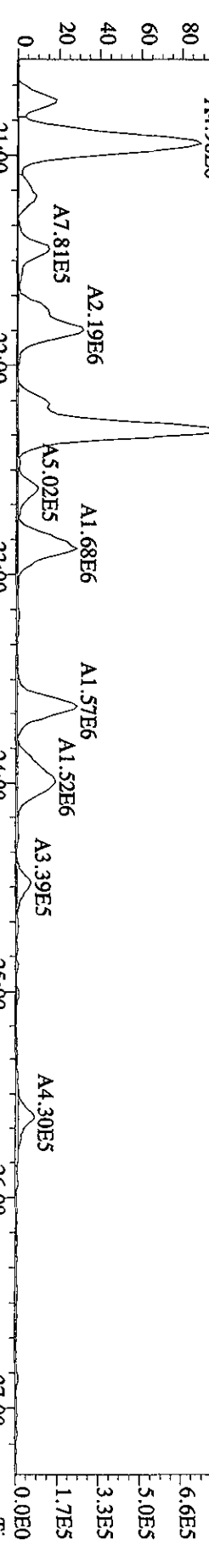
342.9792 S: 22 F: 2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100% 20:55 21:35 22:06 22:28 22:51 23:34 23:55



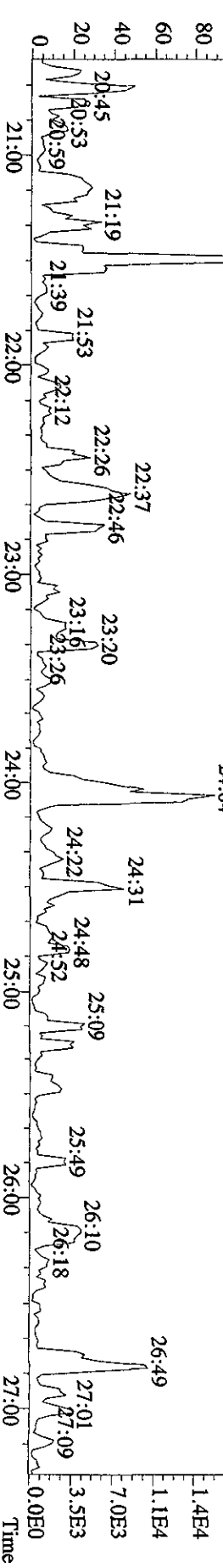
339.8597 S: 22 F: 2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5932.0,1.00%,F,T)  
 100% 21:00 22:00 23:00 24:00 25:00 26:00 27:00



341.8567 S: 22 F: 2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6396.0,1.00%,F,T)  
 100% 21:00 22:00 23:00 24:00 25:00 26:00 27:00

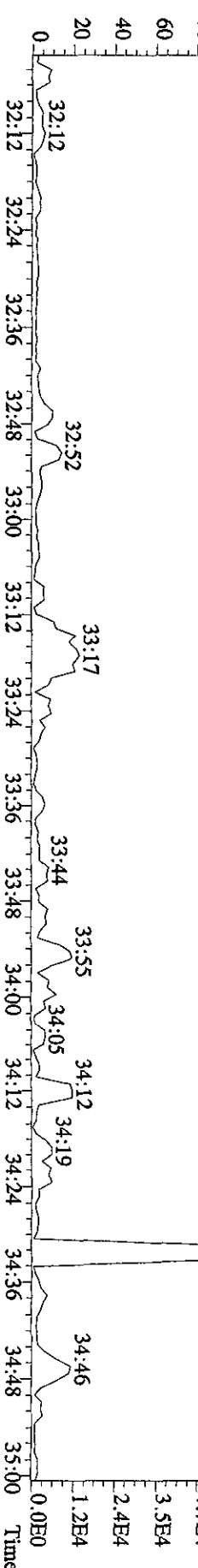
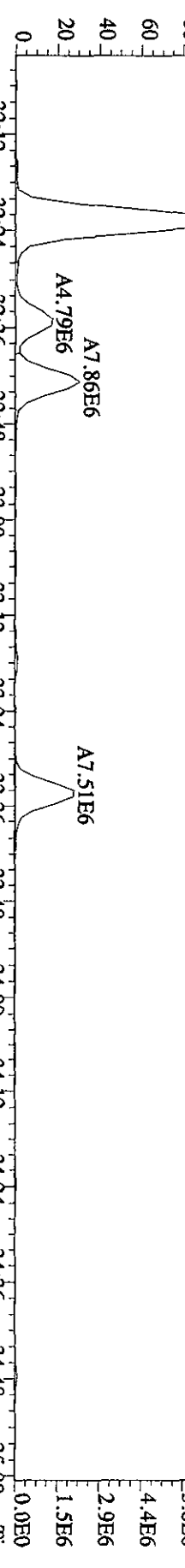
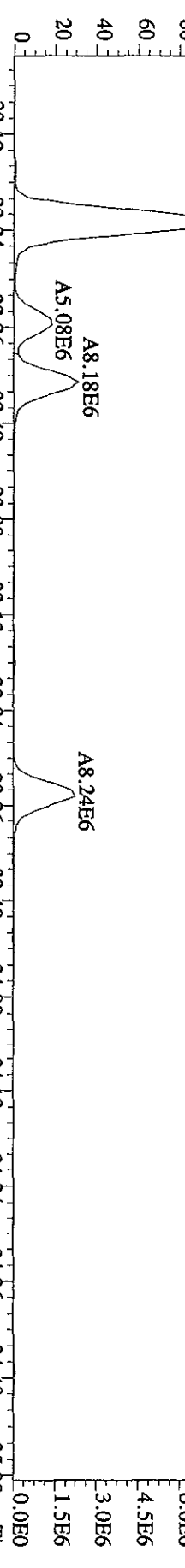
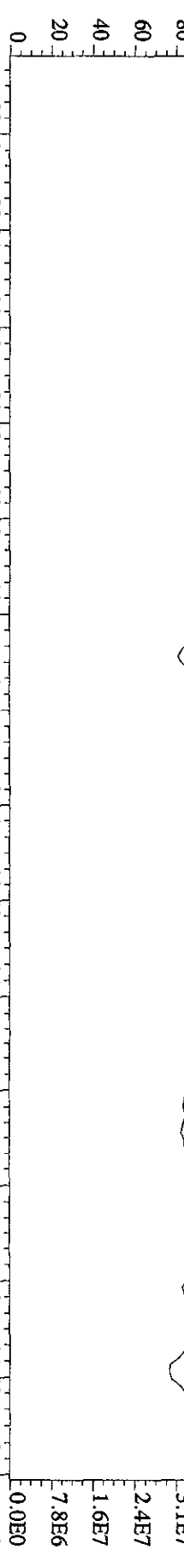


409.7974 S: 22 F: 2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1296.0,1.00%,F,T)  
 100% 21:00 22:00 23:00 24:00 25:00 26:00 27:00

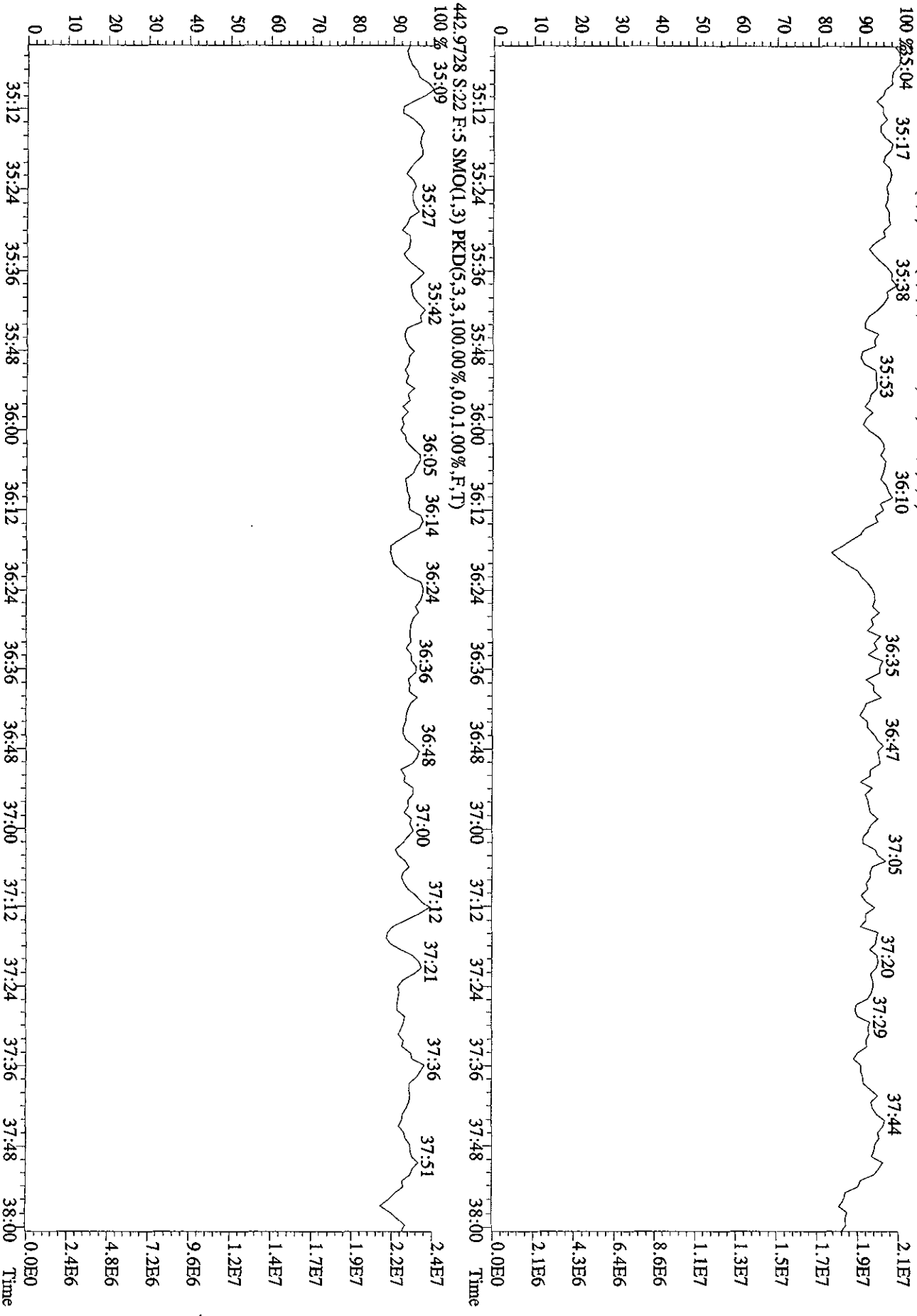








File: 27SE10IDS #1-196 Acq: 28-SEP-2010 00:30:45 GC EI + Voltage SIR 70SE  
 Sample# 22 Text: L7DOR-1-AA : G01230491-7 Exp: DIOXINRES  
 454.9728 S: 22 F: 5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100 % 35:04 35:17 35:38 35:53 36:10 36:35 36:47 37:05 37:20 37:29 37:44

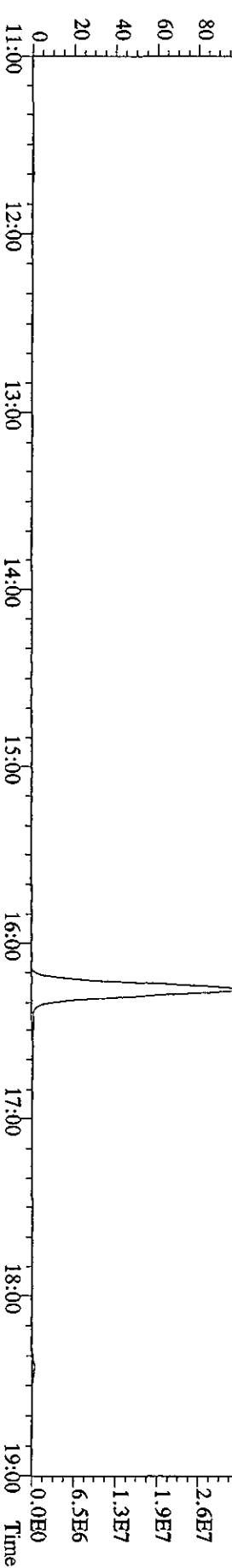
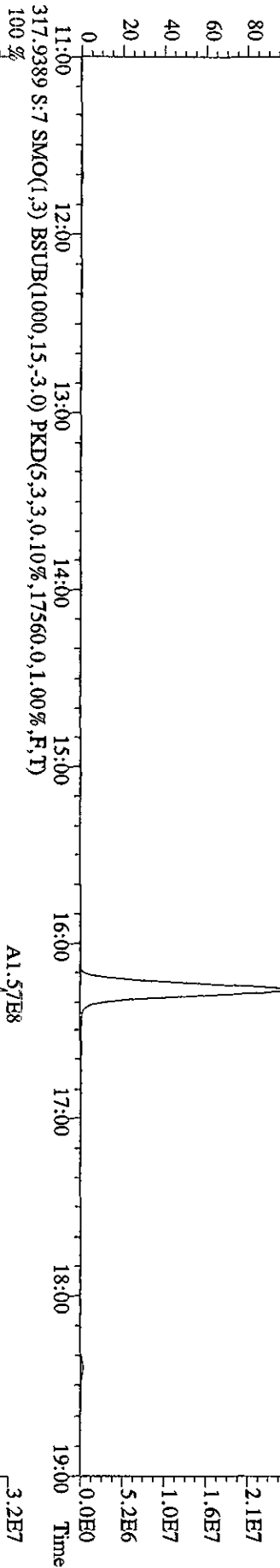
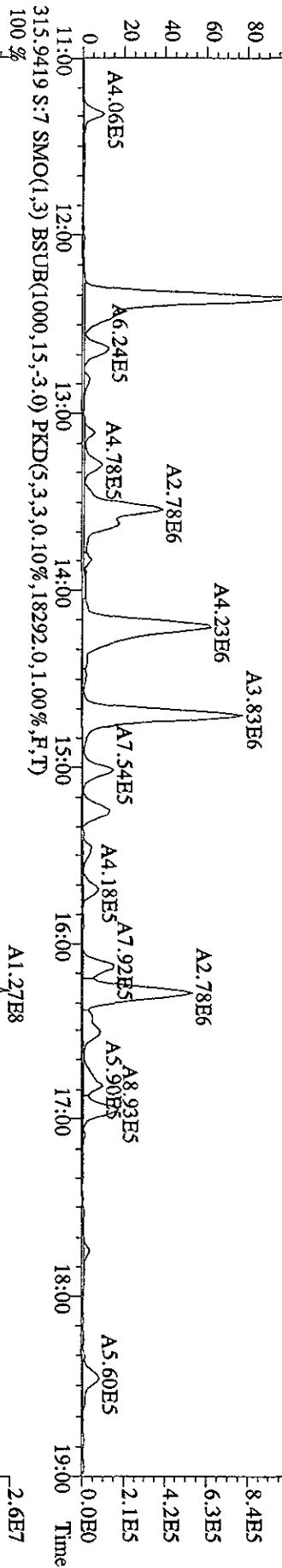
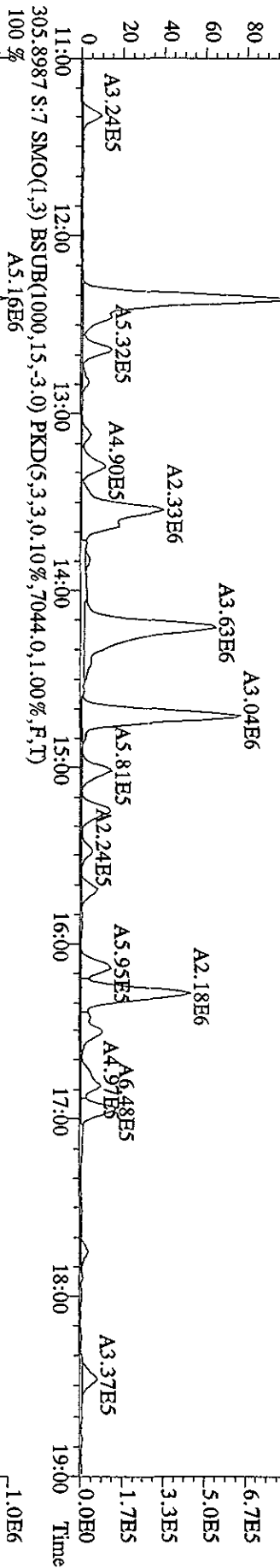


Run text: L7DQR-1-AA Sample text: L7DQR-1-AA :G0I230491-7  
 Run #9 Filename: 29SE105D2 S: 7 I: 1 Results: 29SE105D2DB225AIR  
 Acquired: 29-SEP-10 12:43:26 Processed: 29-SEP-10 13:11:34  
 Run: 29SE105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2R  
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

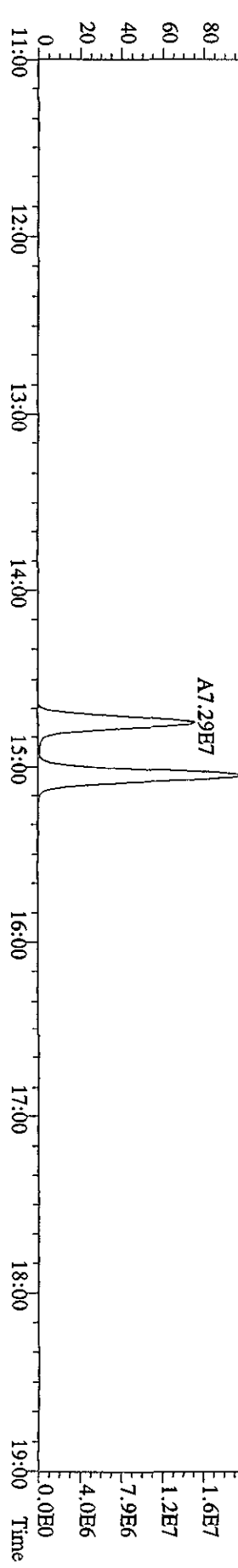
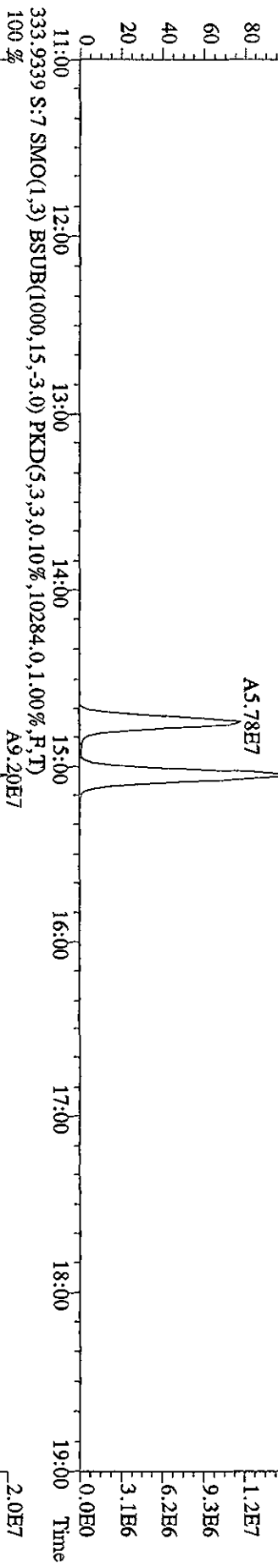
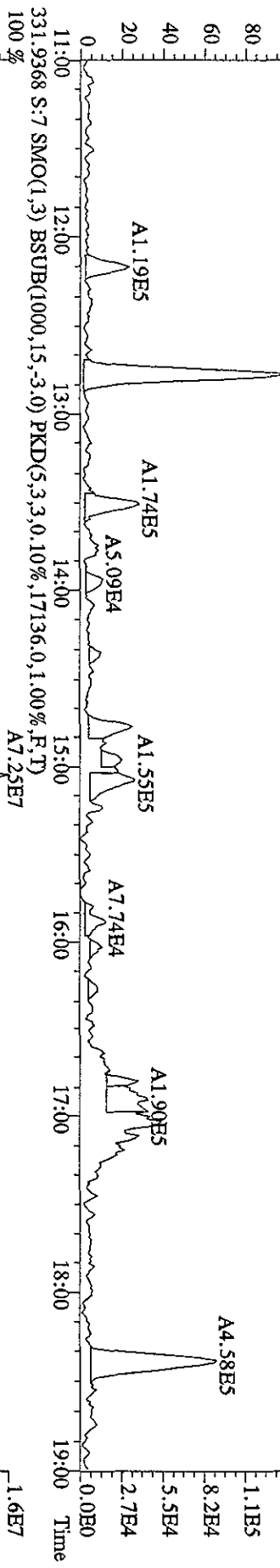
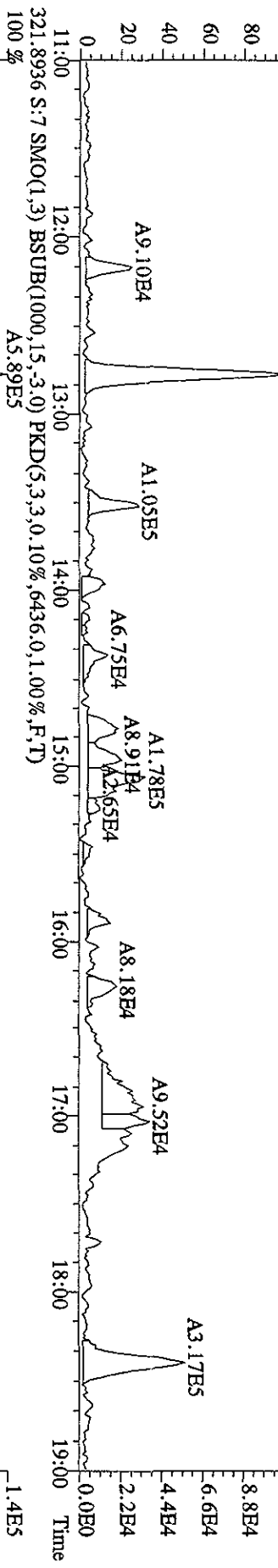
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	164424000	0.79 y	15:03	-	278.449	-	-	n
13C-2,3,7,8-TCDF	283929784	0.80 y	16:16	2.11	3271.483	5.778	81.8	n
2,3,7,8-TCDF	4957017	0.78 y	16:17	1.06	66.123	2.480	-	n
13C-2,3,7,8-TCDD	130674280	0.79 y	14:45	0.88	<del>3593.191</del>	<del>10.546</del>	89.8	n
2,3,7,8-TCDD	233397	0.71 y	14:47	1.64	4.367	3.078	-	n
37Cl-2,3,7,8-TCDD	83939328	1.00 y	14:46	1.46	1762.102	5.652	110.1	n

*09  
09-30-10*

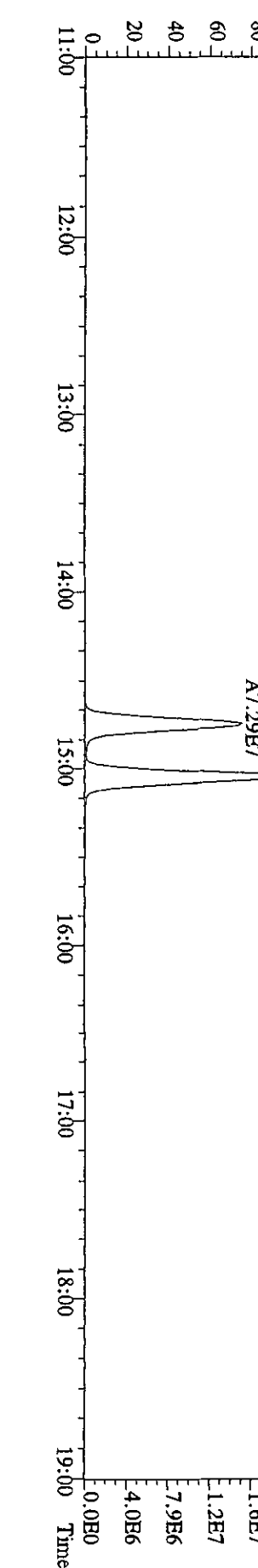
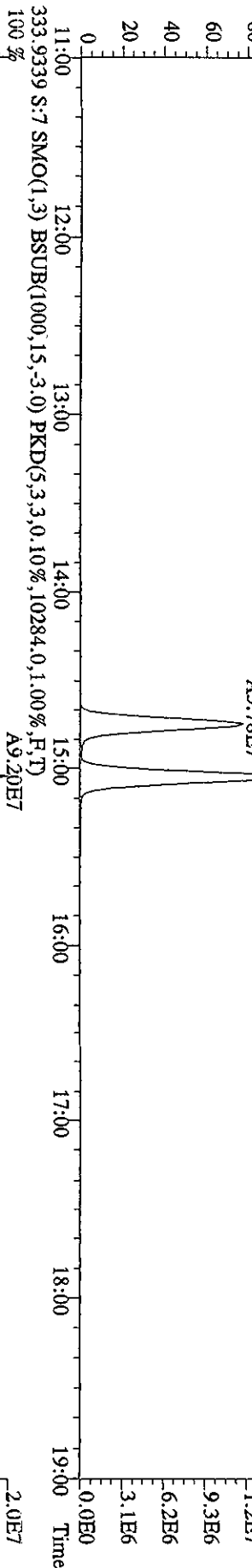
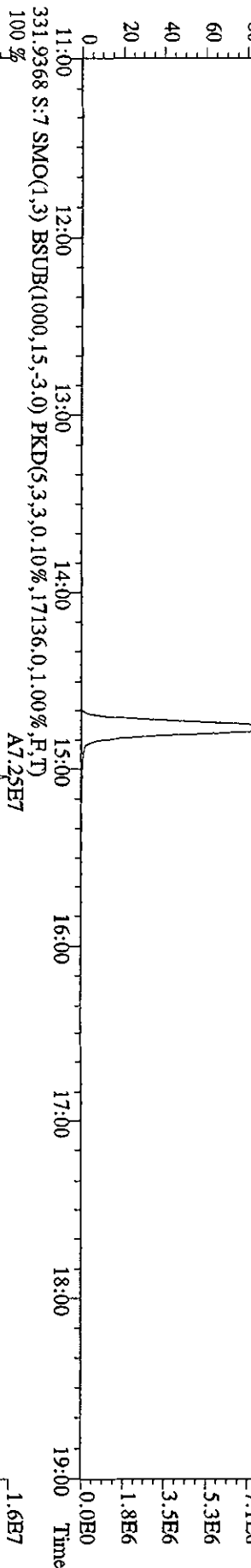
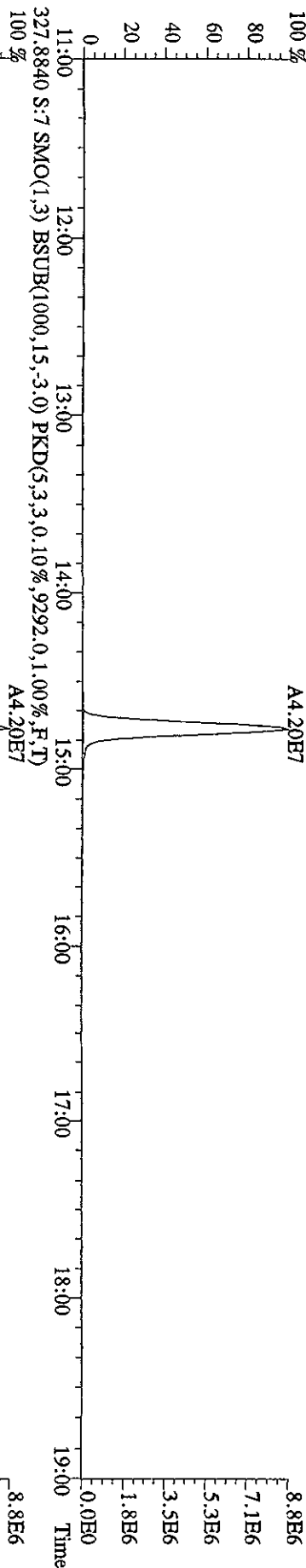
File: 29SE105D2 #1-1242 Acq: 29-SEP-2010 12:43:26 GC EI+ Voltage SIR 70SE  
 Sample#7 Text: L7DQR-1-AA : G01230491-7 Exp: DB225RES  
 303.9016 S: 7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5688,0,1,00%,F,T)  
 100% A4.05E6



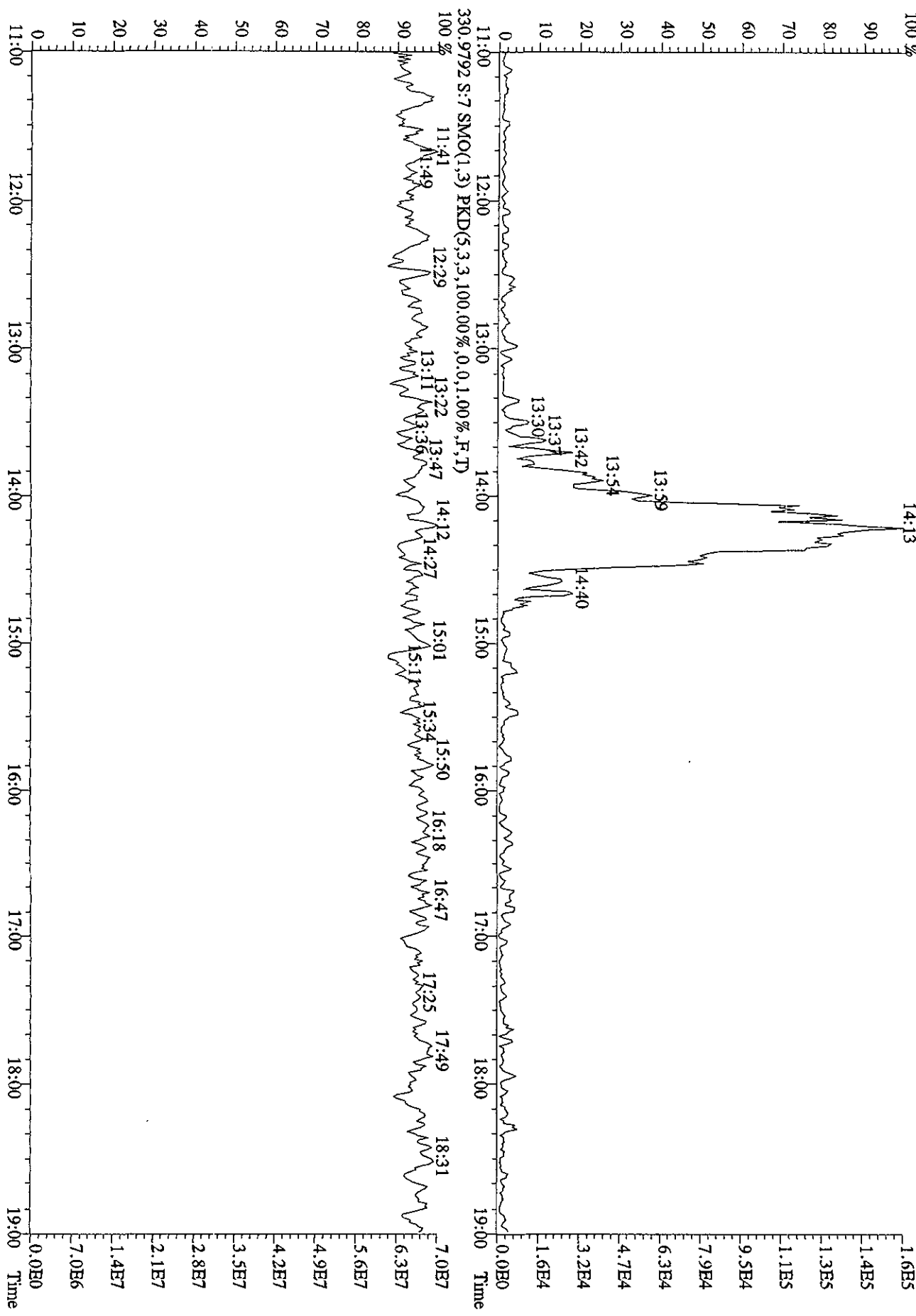
File:29SE105D2 #1-1242 Acq:29-SEP-2010 12:43:26 GC EI+ Voltage SIR 70SE  
 Sample#7 Text:L7DQR-1-AA :G0I230491-7 Exp:DB225RES  
 319.8965 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4936.0,1.00%,F,T)  
 100 % A4.51E5



File: 29SEI05D2 #1-1242 Acq: 29-SEP-2010 12:43:26 GC EI+ Voltage SIR 70SE  
 Sample#7 Text: L7DQR-1-AA : G01230491-7 Exp: DB225RES  
 327.8840 S: 7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9292.0,1.00%,F,T) A4.20E7



File: 29SEI05D2 #1-1242 Acq: 29-SEP-2010 12:43:26 GC EI+ Voltage SIR 70SE  
 Sample#7 Text: L7DOR-1-AA :G01230491-7 Exp: DB225RES  
 375.8364 S: 7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2420,0.1,0.0%,F,T)





Run text: L7DQ6-1-AA Sample text: L7DQ6-1-AA :G0I230491-13  
 Run #13 Filename: 27SE101D5 S: 23 I: 1 Results: 27se101d5to9os  
 Acquired: 28-SEP-10 01:13:42 Processed: 28-SEP-10 09:22:57  
 Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5  
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 Sample

*of  
09-29-10*

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	502494000	0.81 y	17:45	-	287.605	-	-	n
13C-2,3,7,8-TCDF	731883000	0.80 y	17:13	1.56	3727.286	1.168	93.2	n
2,3,7,8-TCDF	457570	0.97 n	17:15	0.98	2.542 <i>J,R</i>	0.525	-	n
Total TCDF	1412336	0.87 y	14:12	0.98	<del>7.846</del> 6.42	0.525	-	n
13C-2,3,7,8-TCDD	439572000	0.81 y	17:56	0.92	3799.720	2.555	95.0	n
2,3,7,8-TCDD	94474	0.37 n	17:55	1.03	<i>5/12.7</i> 0.833 <i>R</i>	<del>0.028</del>	-	n
Total TCDD	487871	2.23 n	14:12	1.03	<del>4.303</del>	<del>0.028</del> 1.05	-	n
37Cl-2,3,7,8-TCDD	239282000	1.00 y	17:57	1.23	1775.634	0.937	111.0	n
13C-1,2,3,7,8-PeCDF	505770000	1.66 y	22:15	1.05	3825.044	2.647	95.6	n
1,2,3,7,8-PeCDF	280822	0.99 n	22:17	1.09	2.034 <i>J,R</i>	1.154	-	n
2,3,4,7,8-PeCDF	123993	0.83 n	23:35	1.02	<del>0.964</del>	1.239	-	n
Total F2 PeCDF	1363412	1.03 n	20:56	1.05	<del>10.104</del> 8.35	1.195	-	n
Total F1 PeCDF	756361	0.59 n	15:18	1.05	<del>5.670</del>	<del>0.731</del>	-	n
13C-1,2,3,7,8-PeCDD	278901000	1.64 y	24:18	0.56	3958.402	1.627	99.0	n
1,2,3,7,8-PeCDD	36211	0.60 n	24:21	1.07	<del>0.485</del>	1.360	-	n
Total PeCDD	835864	0.88 n	21:14	1.07	<del>11.200</del>	<del>1.360</del> 9.26	-	n
13C-1,2,3,7,8,9-HxCDD	428662000	1.28 y	30:45	-	261.204	-	-	n
13C-1,2,3,4,7,8-HxCDF	302419000	0.52 y	29:27	0.99	2848.056	3.994	71.2	n
1,2,3,4,7,8-HxCDF	487321	1.02 n	29:27	1.26	5.112 <i>J,R</i>	1.186	-	y
1,2,3,6,7,8-HxCDF	527892	1.12 y	29:35	1.53	4.560 <i>J</i>	0.977	-	y
2,3,4,6,7,8-HxCDF	214061	1.17 y	30:14	1.41	2.012 <i>J</i>	1.063	-	y
1,2,3,7,8,9-HxCDF	150301	1.34 y	30:57	1.40	1.424 <i>J</i>	1.071	-	y
Total HxCDF	2633473	1.11 y	27:50	1.40	<del>24.964</del> 18.69	1.069	-	y
13C-1,2,3,6,7,8-HxCDD	241572000	1.34 y	30:28	0.74	3048.318	1.116	76.2	n
1,2,3,4,7,8-HxCDD	47142	0.68 n	30:24	1.12	<del>0.697</del>	1.155	-	n
1,2,3,6,7,8-HxCDD	48692	0.70 n	30:28	1.14	<del>0.706</del>	1.133	-	n
1,2,3,7,8,9-HxCDD	111895	0.90 n	30:45	1.35	1.369 <i>J,R</i>	0.955	-	n
Total HxCDD	678512	3.93 n	29:28	1.20	<del>9.242</del> 4.04	1.073	-	n
13C-1,2,3,4,6,7,8-HpCDF	272953300	0.45 y	32:22	0.96	2663.960	3.535	66.6	n
1,2,3,4,6,7,8-HpCDF	1288203	1.10 y	32:22	1.41	13.406 <i>J</i>	1.702	-	n
1,2,3,4,7,8,9-HpCDF	430917	1.14 y	33:34	1.24	5.110 <i>J</i>	1.939	-	n
Total HpCDF	2996153	1.10 y	32:22	1.32	<del>22.673</del> 26.443	1.813	-	n
13C-1,2,3,4,6,7,8-HpCDD	250226000	1.10 y	33:13	0.71	3278.507	4.343	82.0	n
1,2,3,4,6,7,8-HpCDD	280934	0.78 n	33:16	1.13	3.959 <i>J,R</i>	0.895	-	y
Total HpCDD	1074853	3.12 n	32:21	1.13	<del>15.147</del> 8.03	0.895	-	y
13C-OCDD	227196000	0.91 y	35:49	0.35	6011.169	3.816	75.1	n
OCDF	1441792	0.93 y	35:56	2.12	23.975 <i>J</i>	1.696	-	n

OCDD 593280 0.92 y 35:50 1.37 15.236 5 1.501 - n

Run Text: L7DQ6-1-AA

Sample text: L7DQ6-1-AA :G0I230491-13

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:11  
 Run: 13 File: 27SE101D5 S:23 Acq:28-SEP-10 01:13:42  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 3.92 of which 1.27 named and 2.65 unnamed  
 Conc: 7.85 of which 2.54 named and 5.30 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:12	0.87	<del>0.16</del>	13412 15437	1.6 1.2	n n	n n
	2	15:18	1.10	<del>0.24</del>	26956 24577	2.4 1.5	n n	n n
	3	15:35	0.54	1.38	108109 200358	6.9 7.6	y y	n n
	4	16:19	0.78	0.91	72193 92309	3.8 5.7	y y	n n
	5	16:41	2.99	0.57	172104 57506	6.7 2.8	y n	n n
	6	16:53	1.65	1.02	171076 103961	10.9 4.5	y y	n n
	7	17:07	0.56	<del>0.19</del>	14652 26149	1.5 1.6	n n	n n
2,3,7,8-TCDF	8	17:15	0.97	2.54	249669 258514	16.3 10.8	y y	n n
	9	17:40	0.63	<del>0.42</del>	33192 52777	3.0 3.9	n y	n n
	10	18:56	1.84	<del>0.19</del>	35490 19307	2.0 1.5	n n	n n
	11	19:05	0.46	<del>0.22</del>	17165 37224	2.2 1.9	n n	n n

Run Text: L7DQ6-1-AA

Sample text: L7DQ6-1-AA :G0I230491-13

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:9  
 Run: 13 File: 27SE101D5 S:23 Acq:28-SEP-10 01:13:42  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 2.15 of which 0.42 named and 1.73 unnamed  
 Conc: 4.30 of which 0.83 named and 3.47 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:12	2.23 n	0.28	40126 18007	2.6 1.6	n n	n n
	2	15:19	0.88 y	0.76	40231 45785	1.9 3.1	n y	n n
	3	16:01	0.76 y	0.39	19145 25242	1.7 1.6	n n	n n
	4	16:47	0.51 n	0.39	19211 38013	1.9 2.5	n n	n n
	5	16:51	0.21 n	0.16	7968 38013	0.8 2.5	n n	n n
	6	17:13	2.35 n	1.05	158899 67480	12.5 3.2	y y	n n
2,3,7,8-TCDD	7	17:55	0.37 n	0.83	41099 110874	3.2 6.9	y y	n n
	8	18:05	0.49 n	0.33	16348 33495	1.7 2.6	n n	n n
	9	18:12	1.71 n	0.10	11234 6569	0.9 0.5	n n	n n

Run Text: L7DQ6-1-AA

Sample text: L7DQ6-1-AA :G0I230491-13

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:5  
 Run: 13 File: 27SE101D5 S:23 Acq:28-SEP-10 01:13:42  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 5.09 of which 1.50 named and 3.59 unnamed  
 Conc: 10.18 of which 3.00 named and 7.19 unnamed

Name	#	R.T.	Ratio	Conc	Area	S/N	>?	Mod?
	1	20:56	1.03	n	1.87	151443	4.8	y n
						146514	3.7	y n
	2	21:47	1.48	y	0.87	68961	2.1	n n
						46494	2.1	n n
1,2,3,7,8-PeCDF	3	22:17	0.99	n	2.03	170696	8.8	y n
						173285	7.8	y n
2,3,4,7,8-PeCDF	4	23:35	0.83	n	0.96	75368	3.7	y n
						91290	2.8	n n
	5	24:00	0.84	n	4.45	361054	9.9	y n
						431455	14.4	y n

DPE

Run Text: L7DQ6-1-AA

Sample text: L7DQ6-1-AA :G0I230491-13

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:5  
 Run: 13 File: 27SE101D5 S:23 Acq:28-SEP-10 01:13:42  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 2.84 of which \* named and 2.84 unnamed  
 Conc: 5.67 of which \* named and 5.67 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:18	0.59 n	2.78	225742 384129	20.6 29.9	y	n
	2	17:15	0.76 n	0.19	15052 19826	1.6 1.7	n	n
	3	18:55	0.59 n	2.51	203419 344471	17.0 21.1	y	n
	4	19:05	0.36 n	0.09	7170 19873	0.8 1.3	n	n
	5	19:10	0.42 n	0.10	8366 19873	0.8 1.3	n	n

Run Text: L7DQ6-1-AA

Sample text: L7DQ6-1-AA :G0I230491-13

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:5  
 Run: 13 File: 27SE101D5 S:23 Acq:28-SEP-10 01:13:42  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 5.60 of which 0.24 named and 5.36 unnamed  
 Conc: 11.20 of which 0.49 named and 10.71 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	21:14	0.88	n 0.28	12543 14269	1.1 2.1	n	n
	2	22:15	3.43	n 0.79	78994 23046	3.7 3.0	y	n
	3	22:53	0.95	n 0.40	17931 18933	1.6 2.0	n	n
	4	24:01	2.25	n 9.26	609574 270883	25.3 19.1	y	n
1,2,3,7,8-PeCDD	5	24:21	0.60	n 0.49	22011 36711	1.9 2.3	n	n

Run Text: L7DQ6-1-AA

Sample text: L7DQ6-1-AA :G0I230491-13

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:10  
 Run: 13 File: 27SE101D5 S:23 Acq:28-SEP-10 01:13:42  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 11.24 of which 7.12 named and 4.12 unnamed  
 Conc: 22.48 of which 14.24 named and 8.23 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	27:50	1.11 y	1.36	75359 68098	2.9 2.1	n	n
	2	28:09	1.46 n	2.64	182059 124884	8.0 4.6	y	n
1,2,3,4,7,8-HxCDF	3	29:27	0.79 n	5.22	275492 350647	14.0 9.1	y	n
1,2,3,6,7,8-HxCDF	4	29:35	1.18 y	4.49	280902 238755	16.2 11.3	y	n
	5	29:45	1.08 y	1.35	74210 68487	4.4 2.4	y	n
	6	29:59	0.72 n	1.27	74169 102375	3.3 2.8	y	n
2,3,4,6,7,8-HxCDF	7	30:14	1.16 y	3.17	181582 156060	5.4 3.7	y	n
1,2,3,7,8,9-HxCDF	8	30:57	2.08 n	1.36	133116 64099	5.9 3.9	y	n
	9	31:09	0.53 n	0.42	24633 46644	1.9 2.3	n	n
	10	31:41	0.60 n	1.19	69902 115575	4.9 4.4	y	n

*See  
6A*



Run Text: L7DQ6-1-AA

Sample text: L7DQ6-1-AA :G0I230491-13

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? yes #Hom:13  
 Run: 13 File: 27SE101D5 S:23 Acq:28-SEP-10 01:13:42  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 12.48 of which 6.55 named and 5.93 unnamed  
 Conc: 24.96 of which 13.11 named and 11.86 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	27:50	1.11 y	<del>1.36</del>	75359 68098	2.9 <u>2.1</u>	n	n
	2	28:09	1.46 n	2.64	182059 124884	8.0 4.6	y	n
	3	29:25	0.52 n	<del>0.97</del>	56754 108449	8.7 7.1	y	y
1,2,3,4,7,8-HxCDF	4	29:27	1.02 n	5.11	269767 264849	14.7 9.4	y	y
1,2,3,6,7,8-HxCDF	5	29:35	1.12 y	4.56	278918 248974	16.8 11.7	y	y
	6	29:45	1.08 y	<del>1.35</del>	74210 68487	4.4 <u>2.4</u>	y	n
	7	29:59	0.63 n	1.27	74169 117432	3.3 3.1	y	n
	8	30:10	1.07 y	1.68	91762 85463	5.5 3.5	y	y
2,3,4,6,7,8-HxCDF	9	30:14	1.17 y	2.01	115627 98434	5.8 4.0	y	y
1,2,3,7,8,9-HxCDF	10	30:57	1.34 y	1.42	86202 64099	6.4 3.9	y	y
	11	31:02	1.47 n	<del>0.98</del>	68037 46206	3.4 2.3	y	y
	12	31:09	0.53 n	<del>0.42</del>	24633 46644	1.9 2.3	n	y
	13	31:41	0.60 n	<u>1.19</u>	69902 115575	4.9 4.4	y	n

GA

Run Text: L7DQ6-1-AA

Sample text: L7DQ6-1-AA :G0I230491-13

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:9  
 Run: 13 File: 27SE101D5 S:23 Acq:28-SEP-10 01:13:42  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 4.62 of which 1.39 named and 3.23 unnamed  
 Conc: 9.24 of which 2.77 named and 6.47 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	29:28	3.93	<del>0.73</del>	93741 23876	5.6 1.9	y n	n n
	2	29:33	1.49	2.67	129199 86800	9.3 4.2	y y	n n
	3	30:13	3.14	<del>0.58</del>	58922 18742	5.3 1.4	y n	n n
1,2,3,4,7,8-HxCDD	4	30:24	0.68	<del>0.70</del>	26097 38449	2.2 2.4	n n	n n
1,2,3,6,7,8-HxCDD	5	30:28	0.70	<del>0.71</del>	26955 38449	2.5 2.4	n n	n n
1,2,3,7,8,9-HxCDD	6	30:45	0.90	1.37	61942 68583	3.8 4.4	y y	n n
	7	30:56	4.75	0.73	112264 23630	8.6 1.7	y n	n n
	8	31:21	1.04	0.45	18133 17502	1.2 1.4	n n	n n
	9	31:40	1.14	1.31	50786 44411	2.8 2.7	n n	n n

Run Text: L7DQ6-1-AA

Sample text: L7DQ6-1-AA :G0I230491-13

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:6  
 Run: 13 File: 27SE101D5 S:23 Acq:28-SEP-10 01:13:42  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 16.34 of which 9.26 named and 7.08 unnamed  
 Conc: 32.67 of which 18.52 named and 14.16 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	32:22	1.10	y 13.41	673760 614443	20.9	y	n
	2	32:35	0.70	n 2.53	116485 165495	3.4	y	n
	3	32:42	1.18	y 5.40	263120 223909	7.2	y	n
1,2,3,4,7,8,9-HpCDF	4	33:18	0.70	n <del>3.15</del>	144845 208239	4.5	y	n
	5	33:34	1.14	y 5.11	229558 201359	6.4	y	n
	6	34:47	0.70	n <del>3.08</del>	141417 200991	4.3	y	n

Run Text: L7DQ6-1-AA

Sample text: L7DQ6-1-AA :G0I230491-13

Name: Total HpCDD

F:4 Mass: 423.777 425.774 Mod? no #Hom:6

Run: 13 File: 27SE101D5 S:23 Acq:28-SEP-10 01:13:42

Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 10.26 of which 4.66 named and 5.59 unnamed  
 Conc: 20.52 of which 9.33 named and 11.19 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:21	3.12 n	0.81	87692 28118	6.2 2.9	y n	n n
	2	32:39	0.75 n	4.07	147304 195428	10.6 18.4	y y	n n
1,2,3,4,6,7,8-HpCDD	3	33:17	0.94 y	9.33	321477 340525	22.3 25.3	y y	n n
	4	33:34	2.30 n	1.28	102540 44507	7.1 4.1	y y	n n
	5	34:35	1.77 n	0.28	17482 9898	1.6 1.2	n n	n n
	6	34:47	1.15 y	4.74	179981 156649	15.2 17.4	y y	n n

*See 9A*

Run Text: L7DQ6-1-AA

Sample text: L7DQ6-1-AA :G0I230491-13

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? yes #Hom:6  
 Run: 13 File: 27SE101D5 S:23 Acq:28-SEP-10 01:13:42  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 7.57 of which 1.98 named and 5.59 unnamed  
 Conc: 15.15 of which 3.96 named and 11.19 unnamed

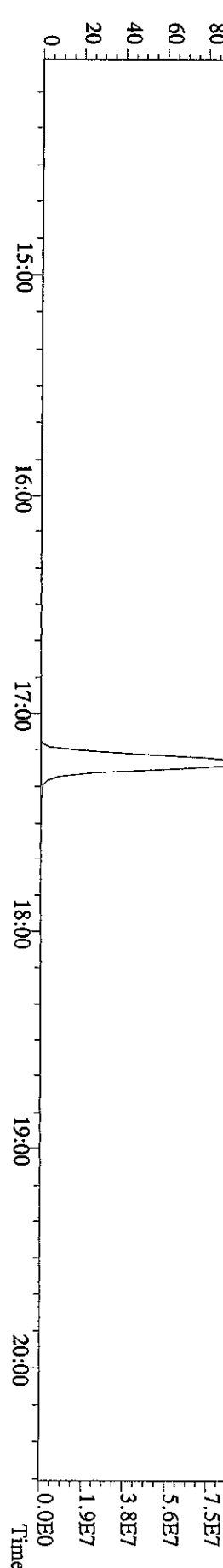
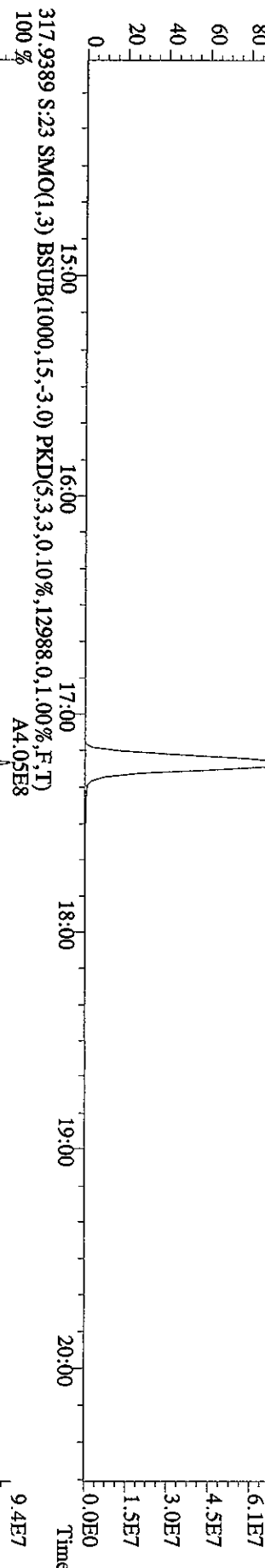
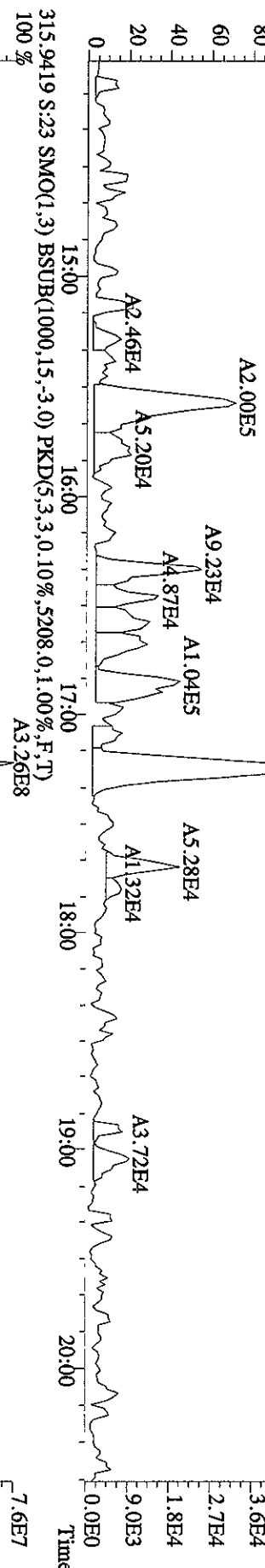
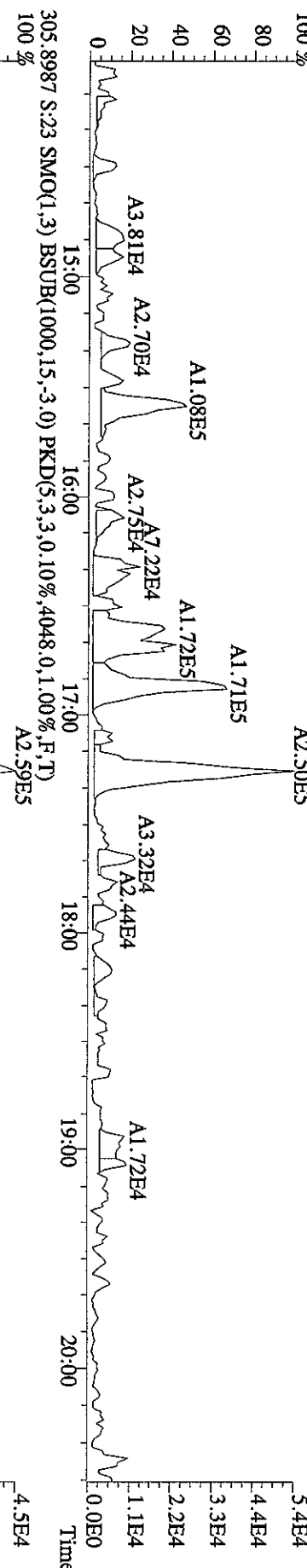
Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:21	3.12 n	0.81	87692 28118	6.2 2.9	y n	n n
	2	32:39	0.75 n	4.07	147304 195428	10.6 18.4	y y	n n
1,2,3,4,6,7,8-HpCDD	3	33:16	0.78 n	3.96	143221 184182	17.4 25.9	y y	y y
	4	33:34	2.30 n	1.28	102540 44507	7.1 4.1	y y	n n
	5	34:35	1.77 n	0.28	17482 9898	1.6 1.2	n n	n n
	6	34:47	1.15 y	4.74	179981 156649	15.2 17.4	y y	n n

AA

Run text: L7DQ6-1-AA Sample text: L7DQ6-1-AA :G0I230491-13  
 Run #13 Filename: 27SE101D5 S: 23 I: 1 Results: 27SE101D5TO9  
 Acquired: 28-SEP-10 01:13:42 Processed: 28-SEP-10 09:22:57  
 Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5  
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000Sample

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	502494000	0.81 y	17:45	-	287.60	-	-	n
13C-2,3,7,8-TCDF	731883000	0.80 y	17:13	1.56	3727.29	1.17	93.2	n
2,3,7,8-TCDF	457570	0.97 n	17:15	0.98	2.54	0.53	-	n
Total TCDF	1412336	0.87 y	14:12	0.98	7.85	0.53	-	n
13C-2,3,7,8-TCDD	439572000	0.81 y	17:56	0.92	3799.72	2.56	95.0	n
2,3,7,8-TCDD	94474	0.37 n	17:55	1.03	0.83	0.83	-	n
Total TCDD	487871	2.23 n	14:12	1.03	4.30	0.83	-	n
37Cl-2,3,7,8-TCDD	239282000	1.00 y	17:57	1.23	1775.63	0.94	111.0	n
13C-1,2,3,7,8-PeCDF	505770000	1.66 y	22:15	1.05	3825.04	2.65	95.6	n
1,2,3,7,8-PeCDF	280822	0.99 n	22:17	1.09	2.03	1.15	-	n
2,3,4,7,8-PeCDF	123993	0.83 n	23:35	1.02	0.96	1.24	-	n
Total F2 PeCDF	1363412	1.03 n	20:56	1.05	10.18	1.20	-	n
Total F1 PeCDF	756361	0.59 n	15:18	1.05	5.67	0.73	-	n
13C-1,2,3,7,8-PeCDD	278901000	1.64 y	24:18	0.56	3958.40	1.63	99.0	n
1,2,3,7,8-PeCDD	36211	0.60 n	24:21	1.07	0.49	1.36	-	n
Total PeCDD	835864	0.88 n	21:14	1.07	11.20	1.36	-	n
13C-1,2,3,7,8,9-HxCDD	428662000	1.28 y	30:45	-	261.20	-	-	n
13C-1,2,3,4,7,8-HxCDF	302419000	0.52 y	29:27	0.99	2848.06	3.99	71.2	n
1,2,3,4,7,8-HxCDF	497663	0.79 n	29:27	1.26	5.22	1.19	-	n
1,2,3,6,7,8-HxCDF	519657	1.18 y	29:35	1.53	4.49	0.98	-	n
2,3,4,6,7,8-HxCDF	337642	1.16 y	30:14	1.41	3.17	1.06	-	n
1,2,3,7,8,9-HxCDF	143582	2.08 n	30:57	1.40	1.36	1.07	-	n
Total HxCDF	2369193	1.11 y	27:50	1.40	22.48	1.07	-	n
13C-1,2,3,6,7,8-HxCDD	241572000	1.34 y	30:28	0.74	3048.32	1.12	76.2	n
1,2,3,4,7,8-HxCDD	47142	0.68 n	30:24	1.12	0.70	1.15	-	n
1,2,3,6,7,8-HxCDD	48692	0.70 n	30:28	1.14	0.71	1.13	-	n
1,2,3,7,8,9-HxCDD	111895	0.90 n	30:45	1.35	1.37	0.96	-	n
Total HxCDD	678512	3.93 n	29:28	1.20	9.24	1.07	-	n
13C-1,2,3,4,6,7,8-HpCDF	272953300	0.45 y	32:22	0.96	2663.96	3.53	66.6	n
1,2,3,4,6,7,8-HpCDF	1288203	1.10 y	32:22	1.41	13.41	1.70	-	n
1,2,3,4,7,8,9-HpCDF	430917	1.14 y	33:34	1.24	5.11	1.94	-	n
Total HpCDF	2996153	1.10 y	32:22	1.32	32.67	1.81	-	n
13C-1,2,3,4,6,7,8-HpCDD	250226000	1.10 y	33:13	0.71	3278.51	4.34	82.0	n
1,2,3,4,6,7,8-HpCDD	662002	0.94 y	33:17	1.13	9.33	0.89	-	n
Total HpCDD	1455921	3.12 n	32:21	1.13	20.52	0.89	-	n
13C-OCDD	227196000	0.91 y	35:49	0.35	6011.17	3.82	75.1	n
OCDF	1441792	0.93 y	35:56	2.12	23.98	1.70	-	n
OCDD	593280	0.92 y	35:50	1.37	15.24	1.50	-	n

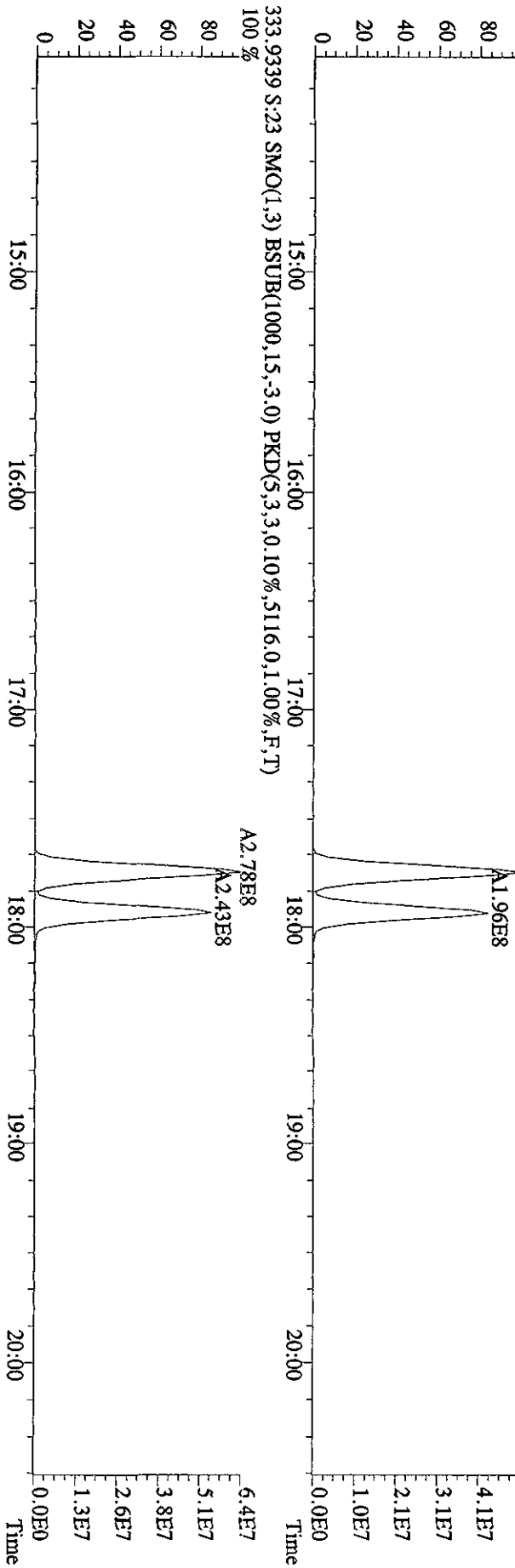
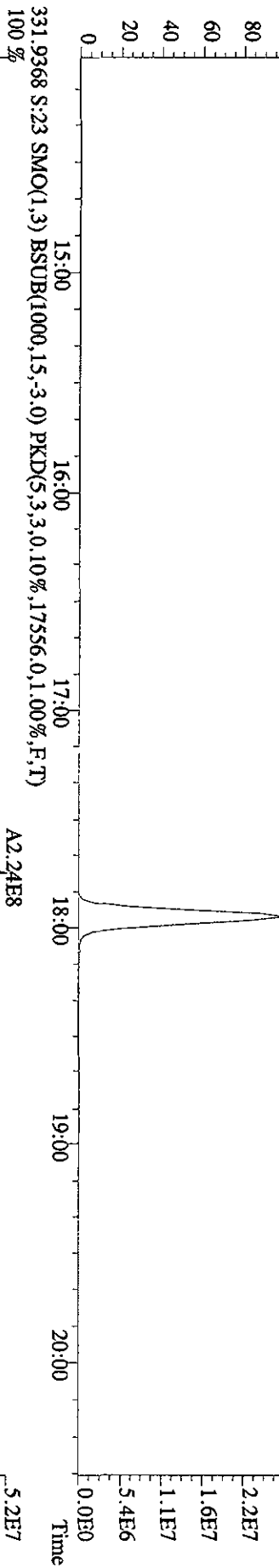
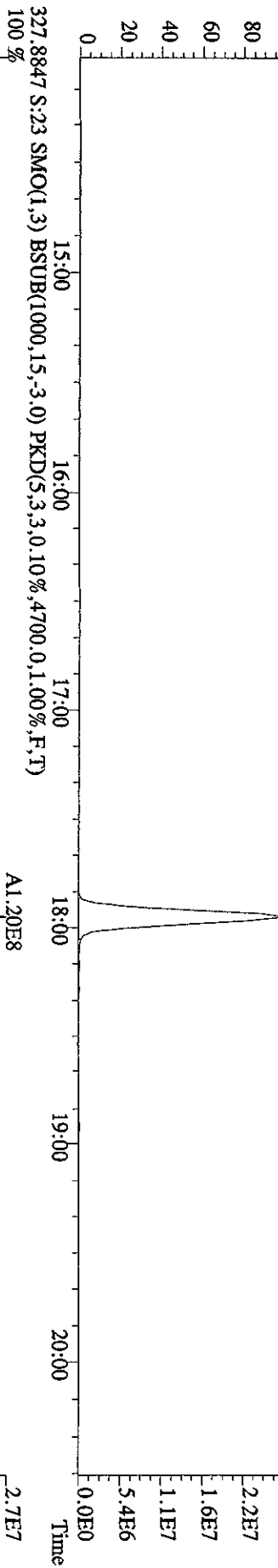
File:27SE101D5 #1-382 Acq:28-SEP-2010 01:13:42 GC EI + Voltage SIR 70SE  
 Sample#23 Text:L7DQ6-1-AA :G01230491-13 Exp:DIOXINRES  
 303.9016 S:23 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3256,0.1,0.00%,F,T) A2.50E5



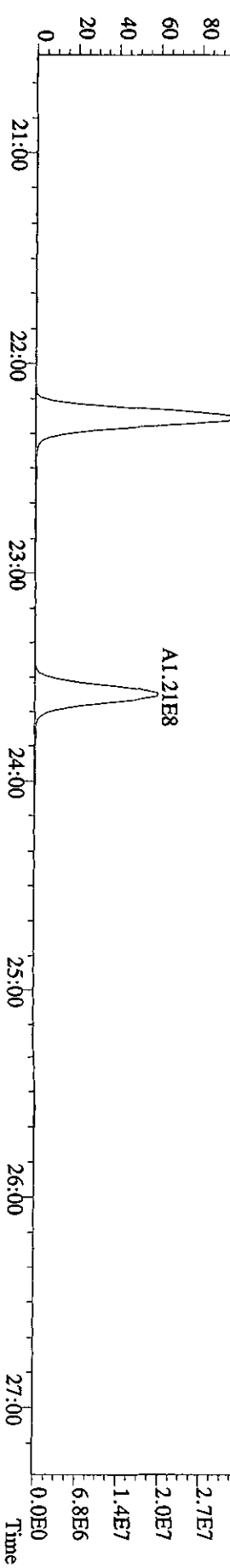
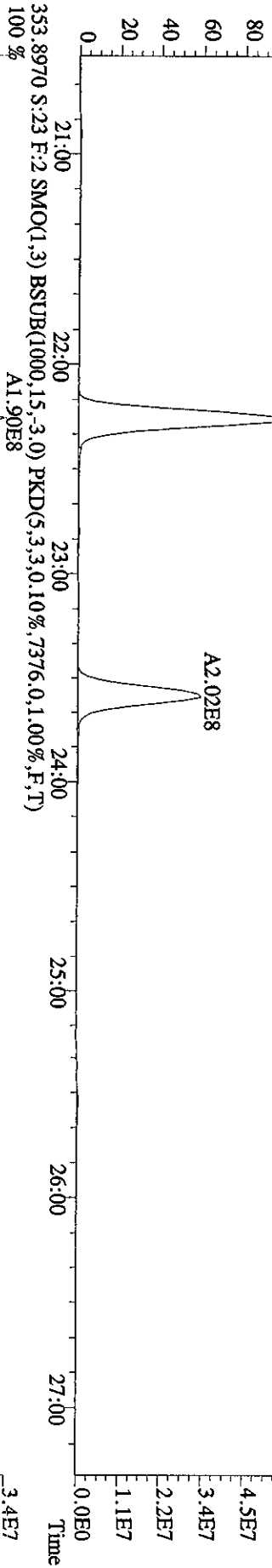
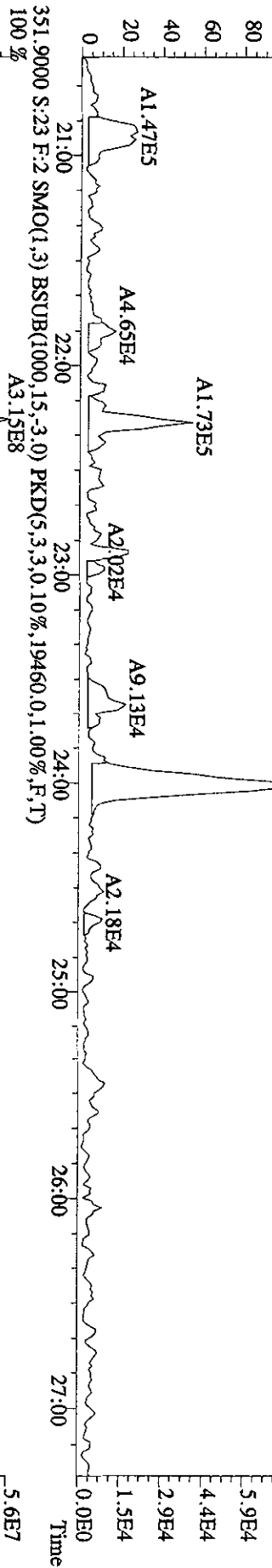
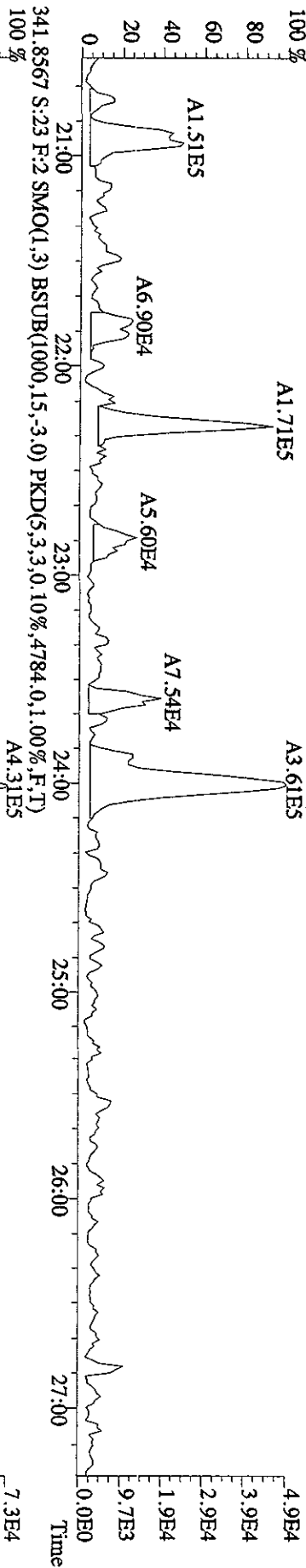




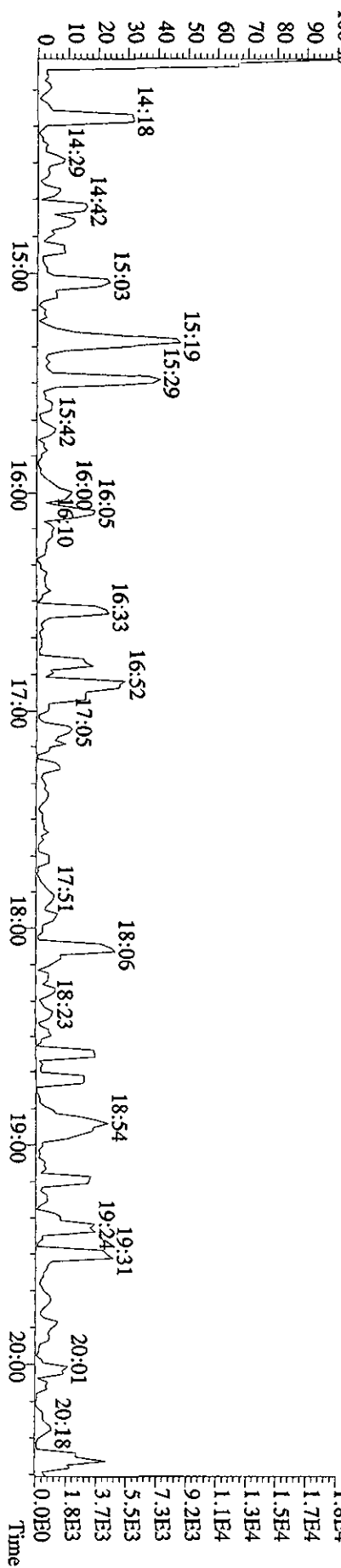
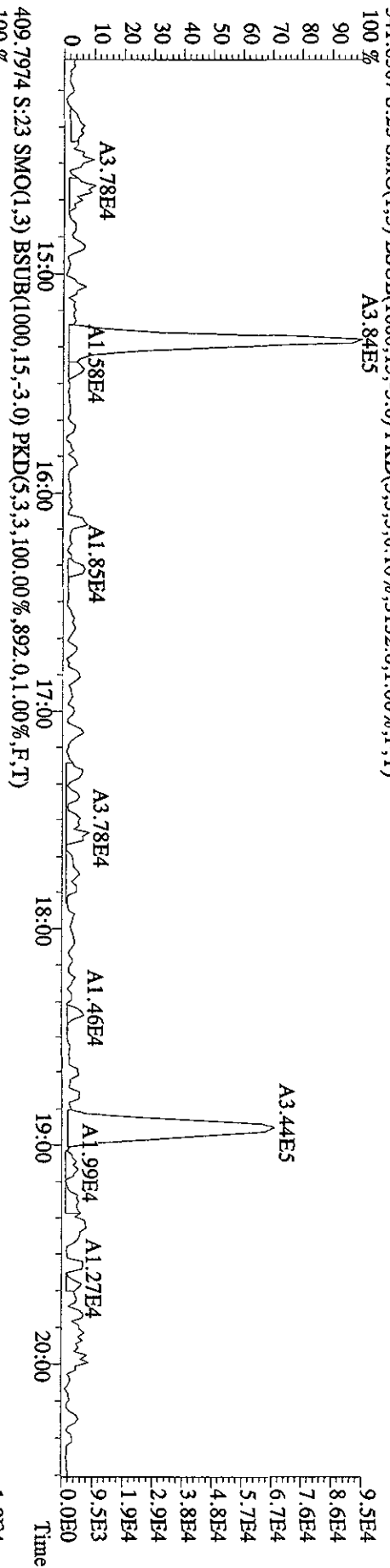
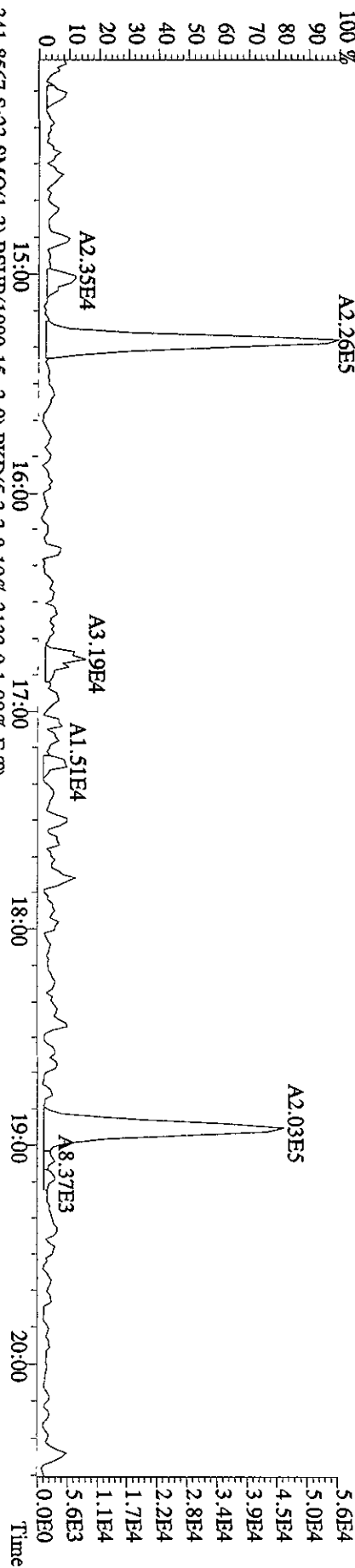
File: 27SE101D5 #1-382 Acq: 28-SEP-2010 01:13:42 GC EI+ Voltage SIR 70SE  
 Sample# 23 Text: L7DQ6-1-AA :G0I230491-13 Exp: DIOXINRES  
 327.8847 S: 23 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4700,0,1,00%,F,T)



339.8597 S.:23 F.:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4656.0,1.00%,F,T)



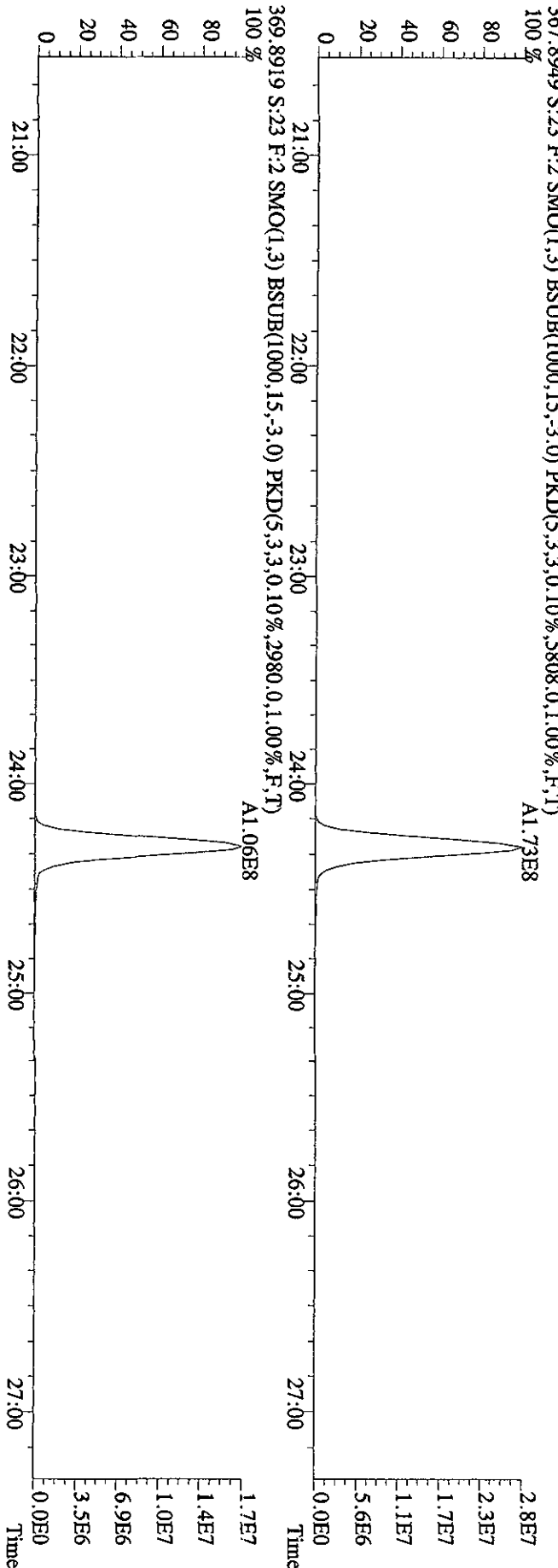
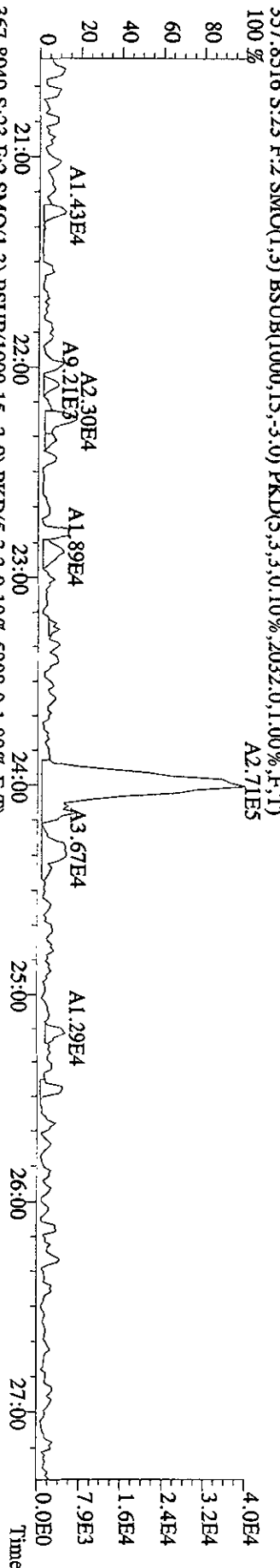
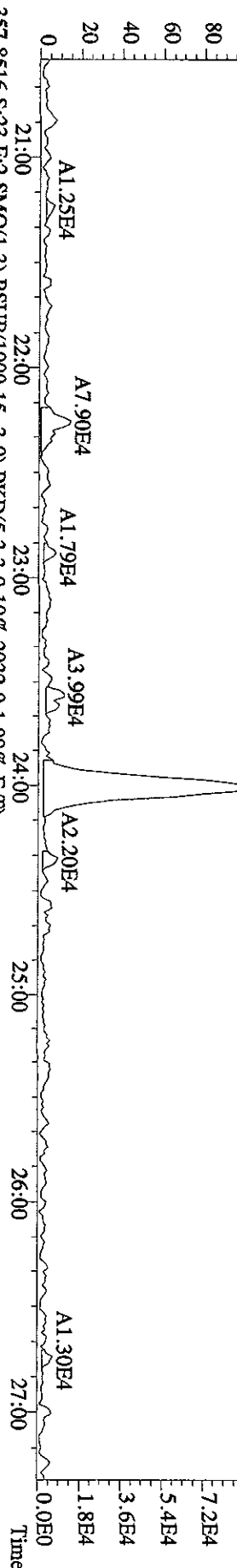
File: 27SE101D5 #1-382 Acq: 28-SEP-2010 01:13:42 GC EI+ Voltage SFR 70SE  
 Sample#23 Text: L7DQ6-1-AA :G01230491-13 Exp: DIOXINRES  
 339,8597 S:23 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2644.0,1.00%,F,T)

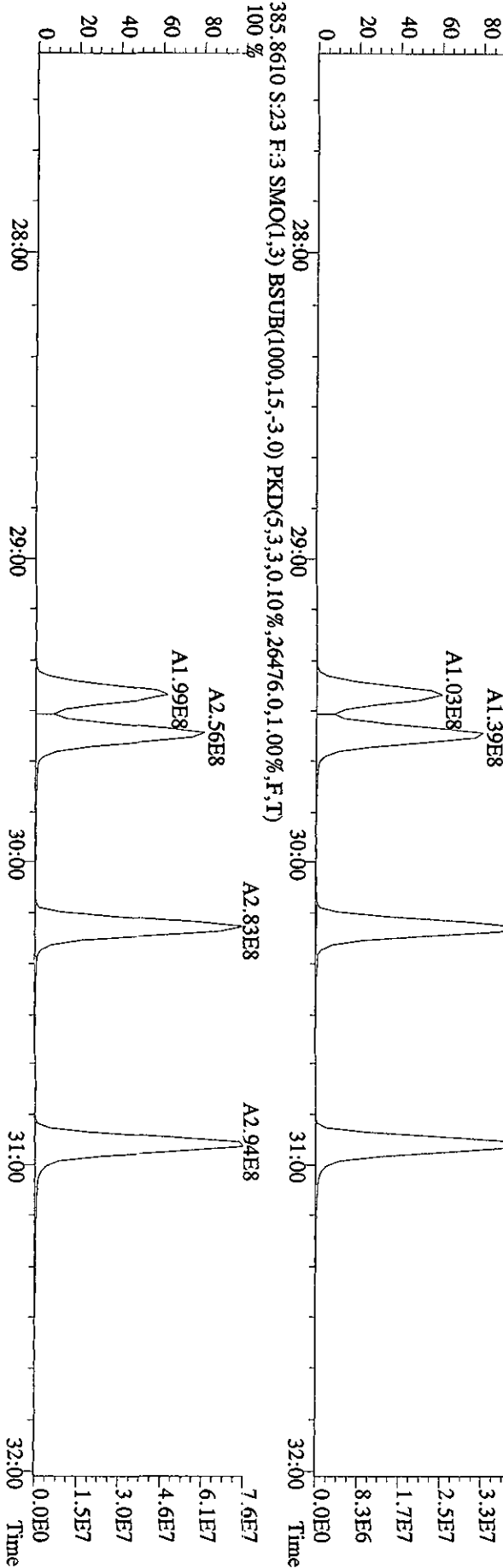
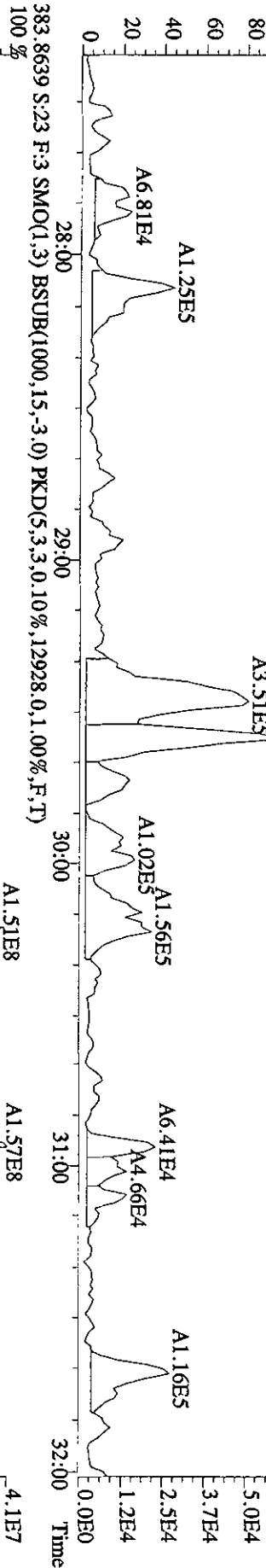
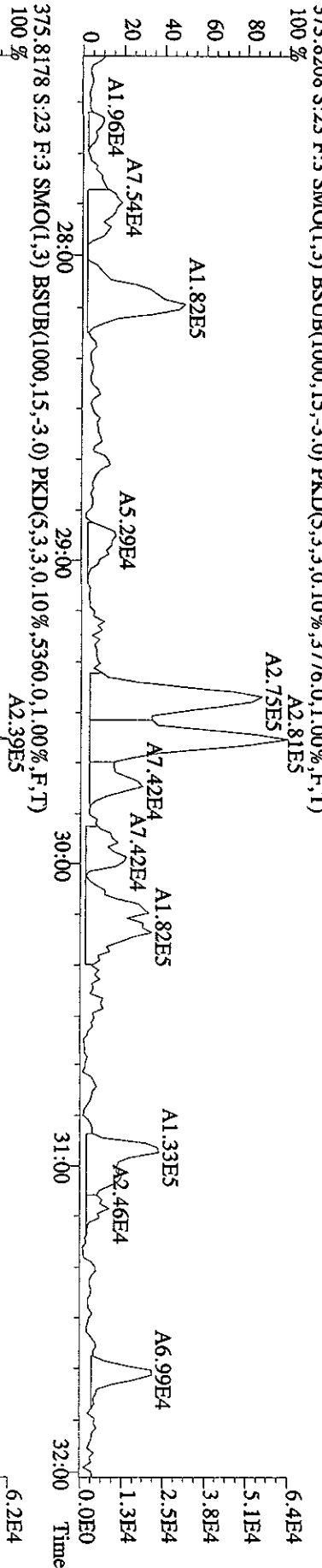


File:27SEI01D5 #1.423 Acq:28-SEP-2010 01:13:42 GC EI+ Voltage SIR 70SE

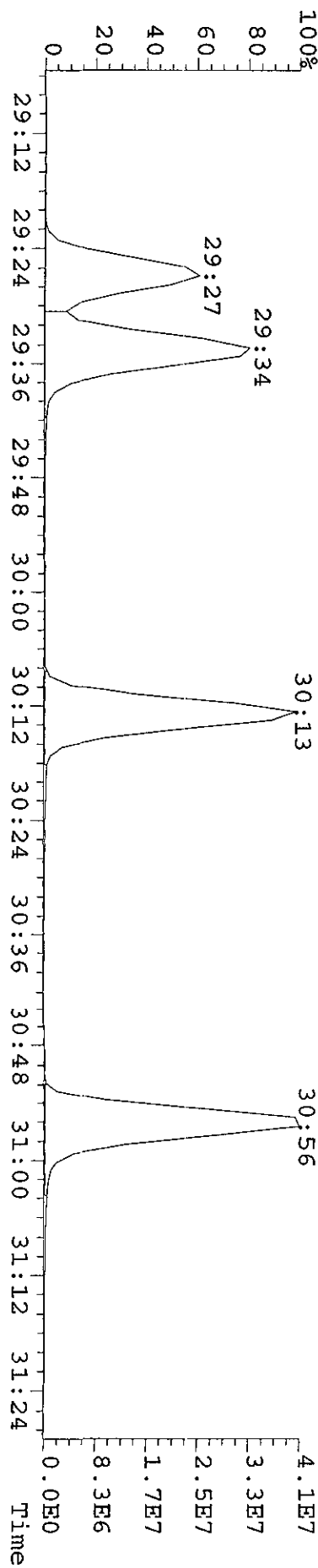
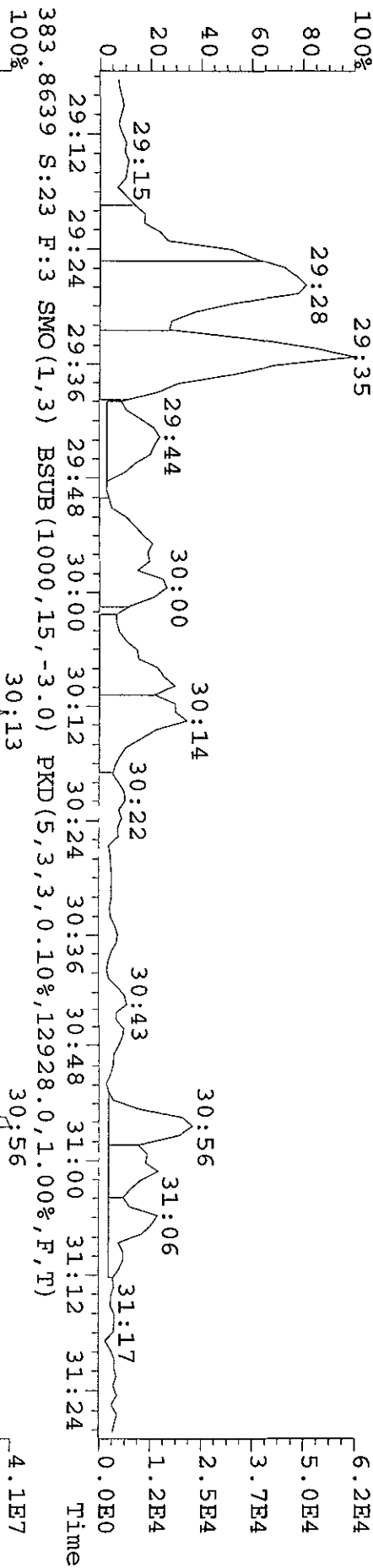
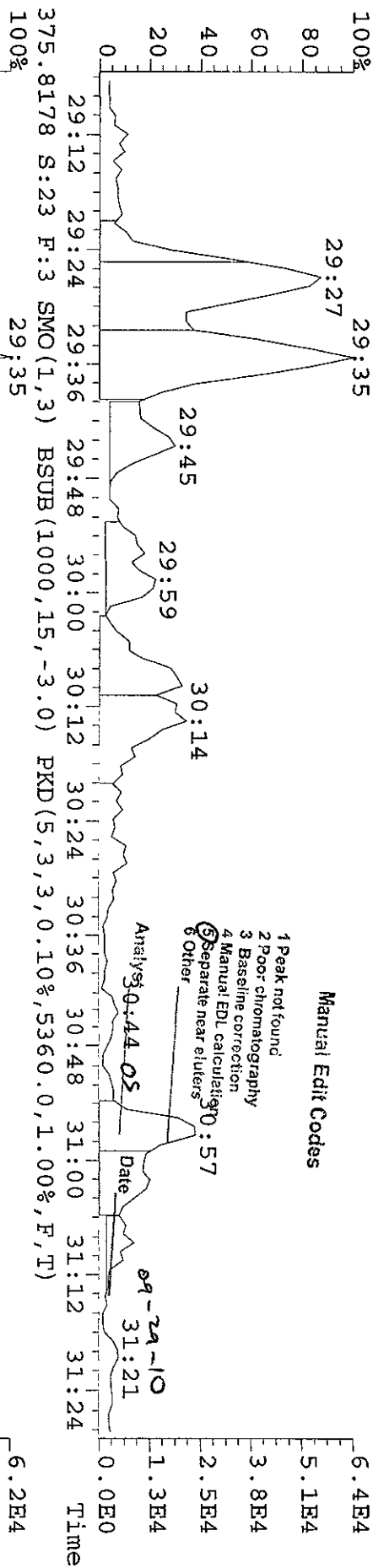
Sample#23 Text:L7DQ6-1-AA :G01230491-13 Exp:DIOXINRES

355.8546 S:23 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3488,0.1,00%,F,T)

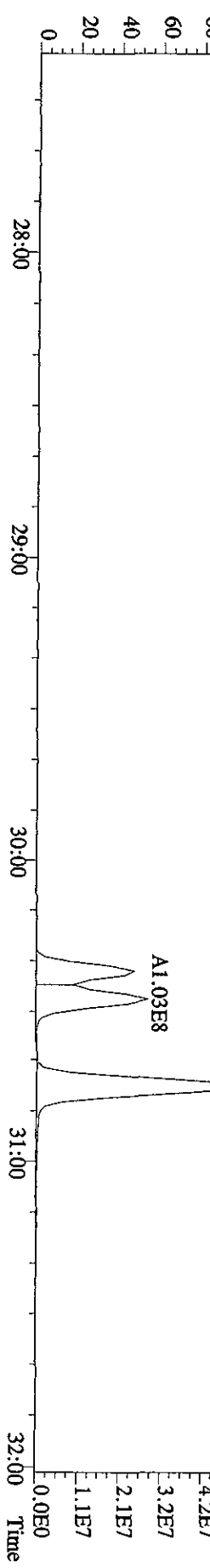
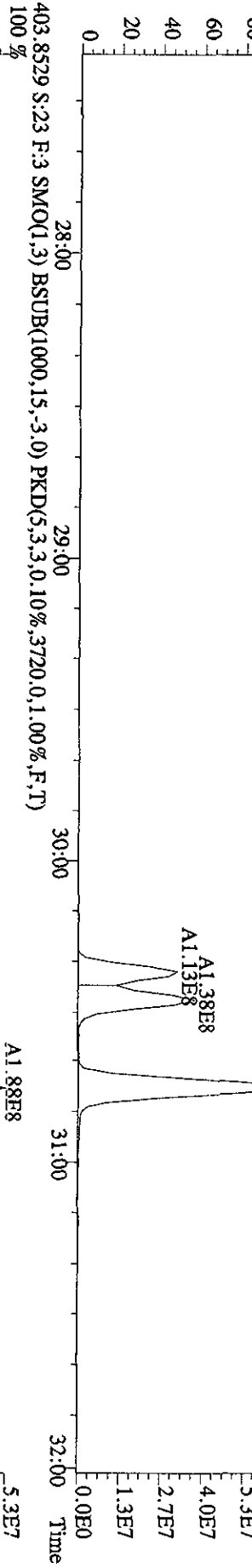
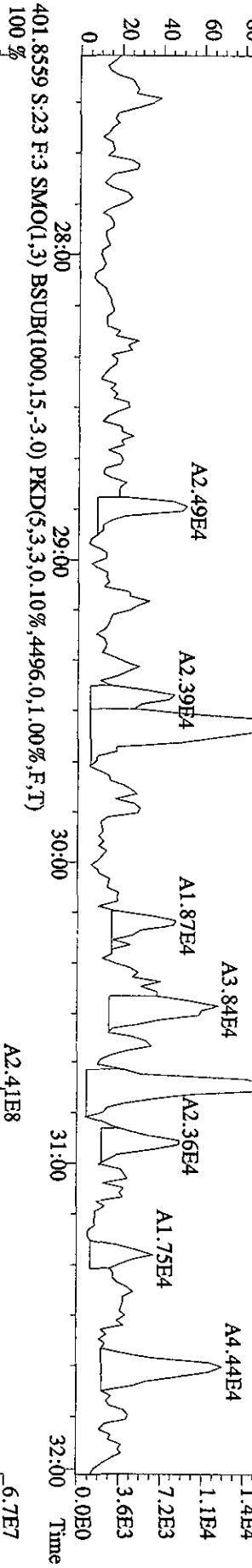
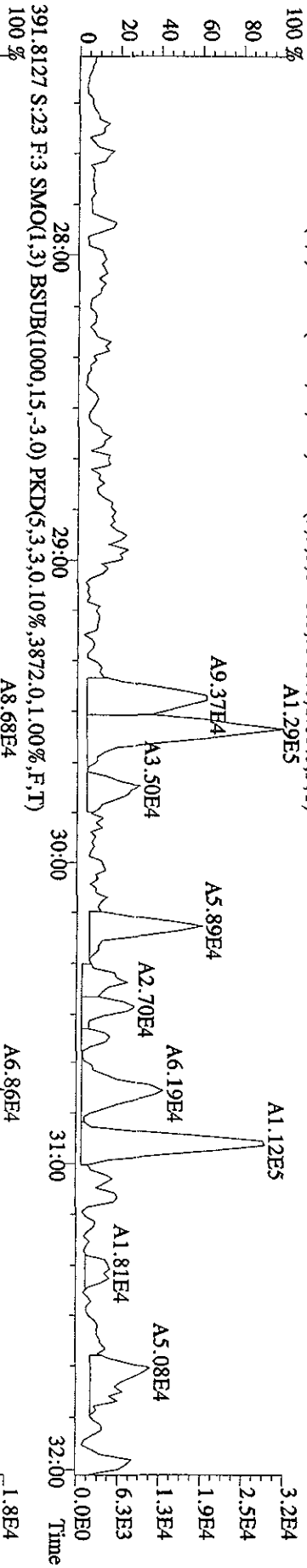




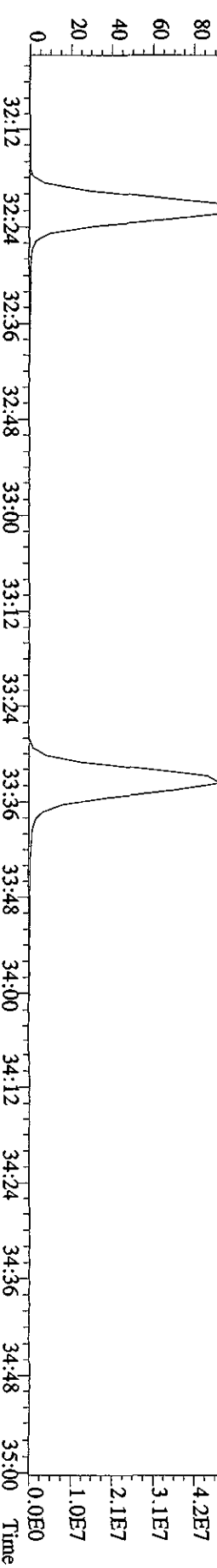
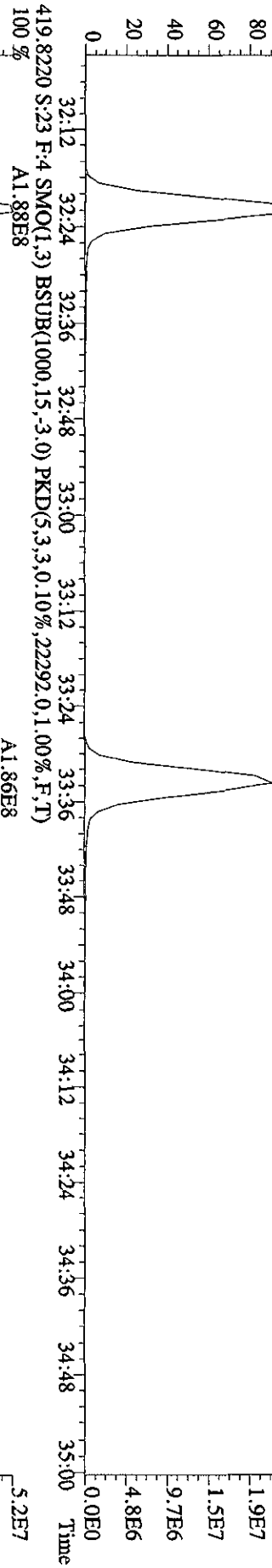
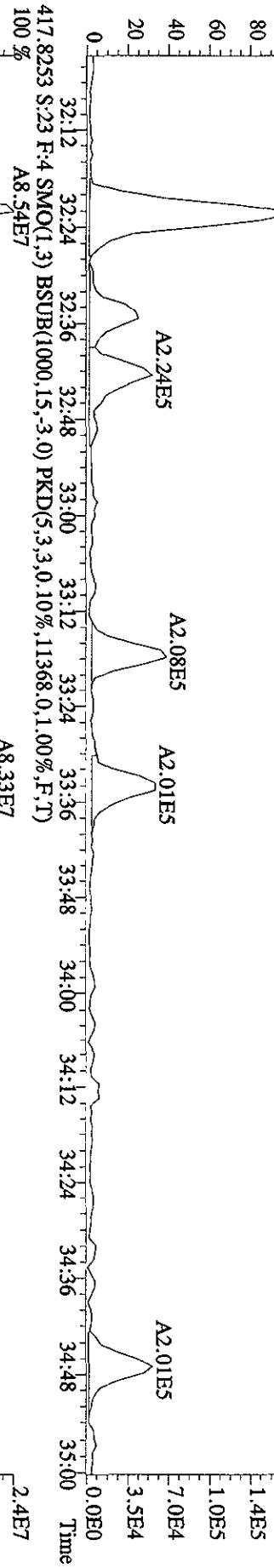
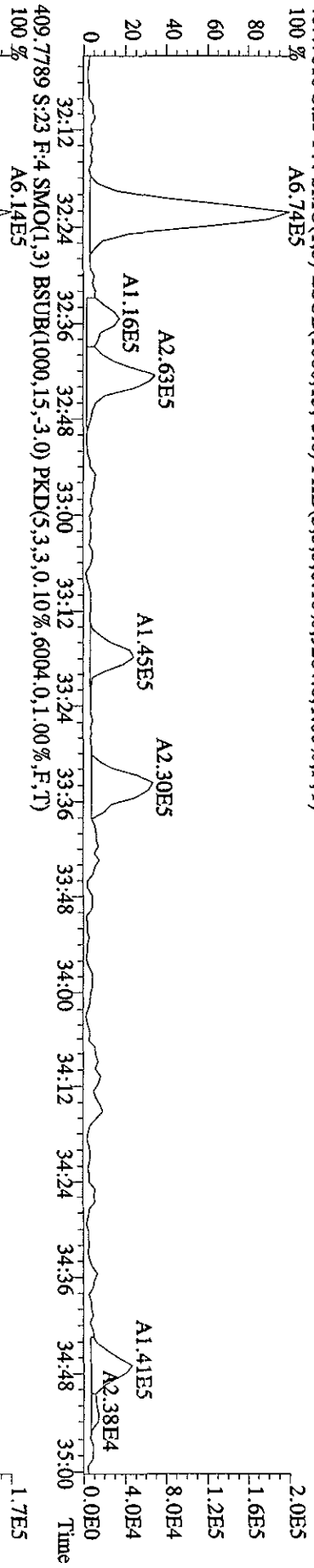
File: 27SE101D5 #1-301 Acq: 28-SEP-2010 01:13:42 GC EI+ Voltage SIR 70SE  
 Sample#23 Text: L7DQ6-1-AA : G0I230491-13 Exp: DIOXINRES  
 373.8208 S:23 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3776.0,1.00%,F,T)



File:27SE101D5 #1-301 Acq:28-SEP-2010 01:13:42 GC EI+ Voltage SIR 70SE  
 Sample#23 Text:L7DQ6-1-AA :G0I230491-13 Exp.:DIOXINRES  
 389.8157 S:23 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3268,0,1.00%,F,T)  
 100%

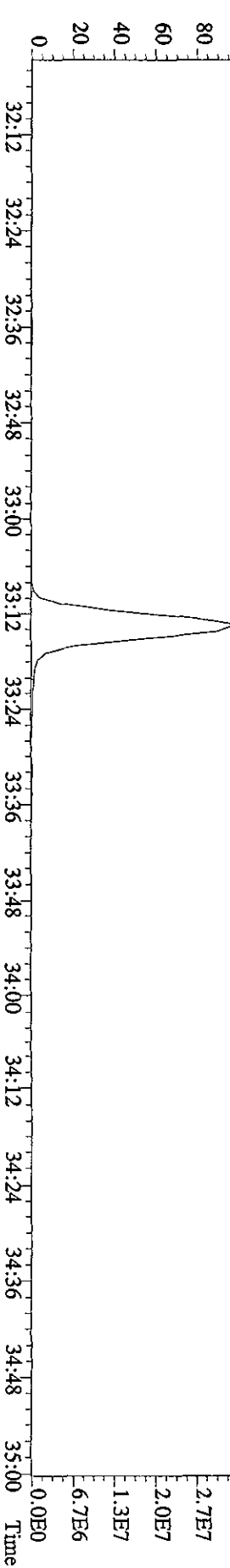
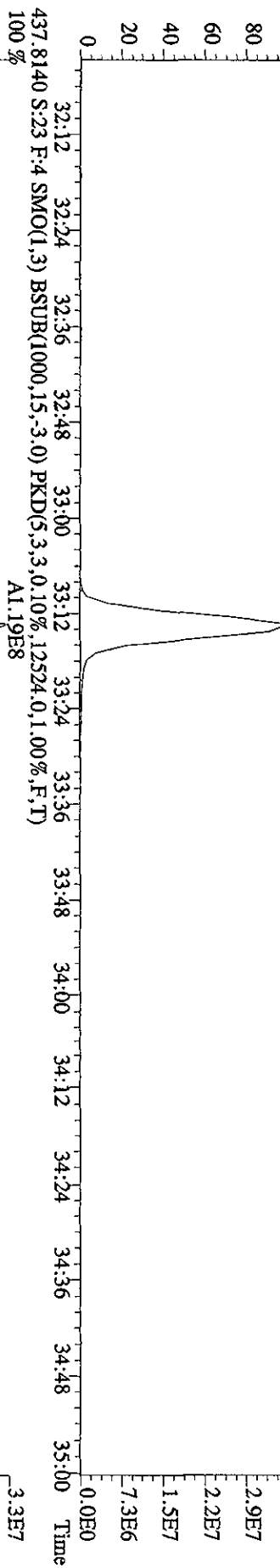
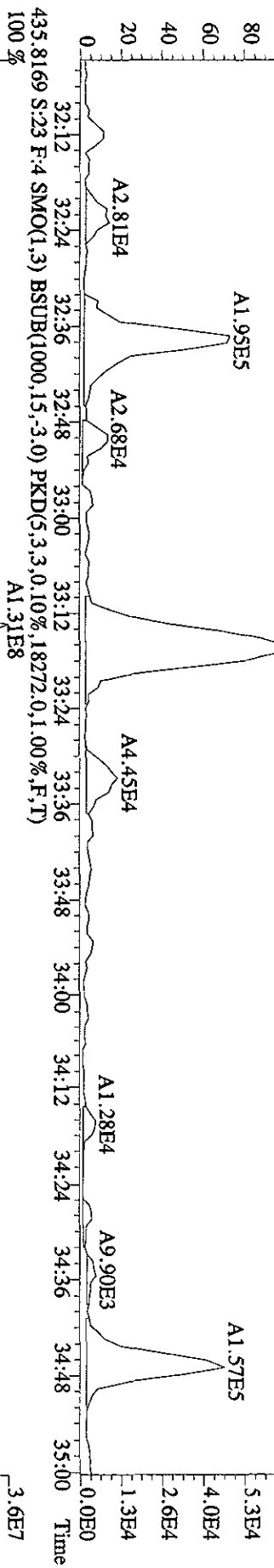
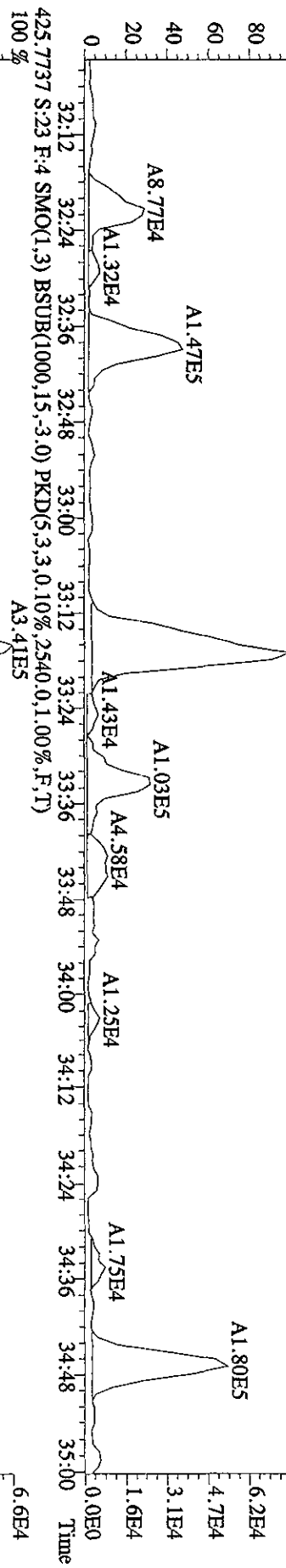


File: 27SE101D5 #1-202 Acq: 28-SEP-2010 01:13:42 GC EI+ Voltage SIR 70SE  
 Sample#23 Text: L7D06-1-AA :G01230491-13 Exp: DIOXINRES  
 407.7818 S:23 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9284,0,1,100%,F,T)





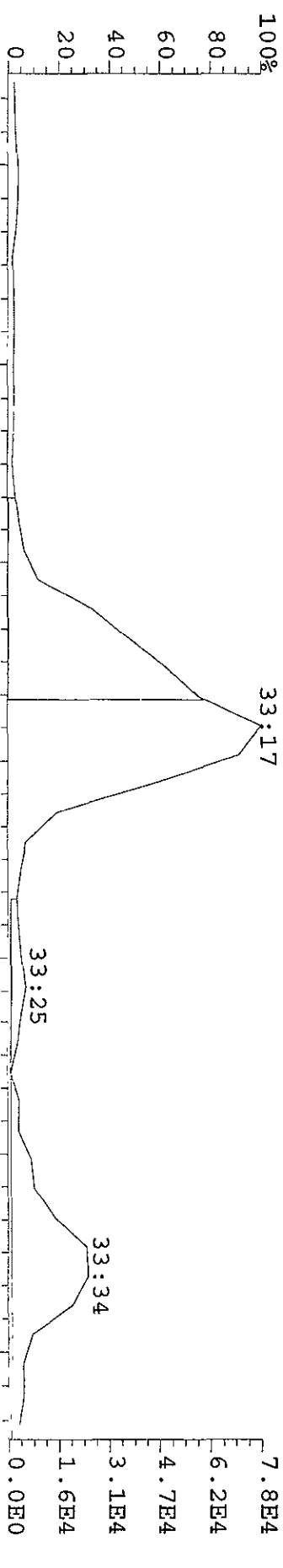
File:27SE101D5 #1-202 Acq:28-SEP-2010 01:13:42 GC EI+ Voltage SIR 70SE  
 Sample#23 Text:L7D06-1-AA :G01230491-13 Exp:DIOXINRES  
 423.7766 S:23 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3364,0,1,00%,F,T)  
 100%



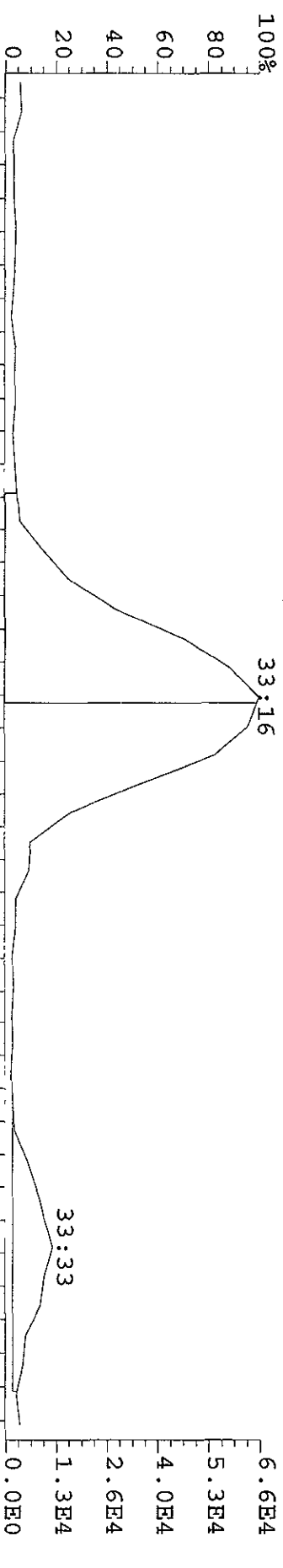
File: 27SE101D5 #1-202 Acq: 28-SEP-2010 01:13:42 GC EI+ Voltage SIR 70SE

Sample#23 Text: L7DQ6-1-AA : G01230491-13 Exp: DIOXINRES

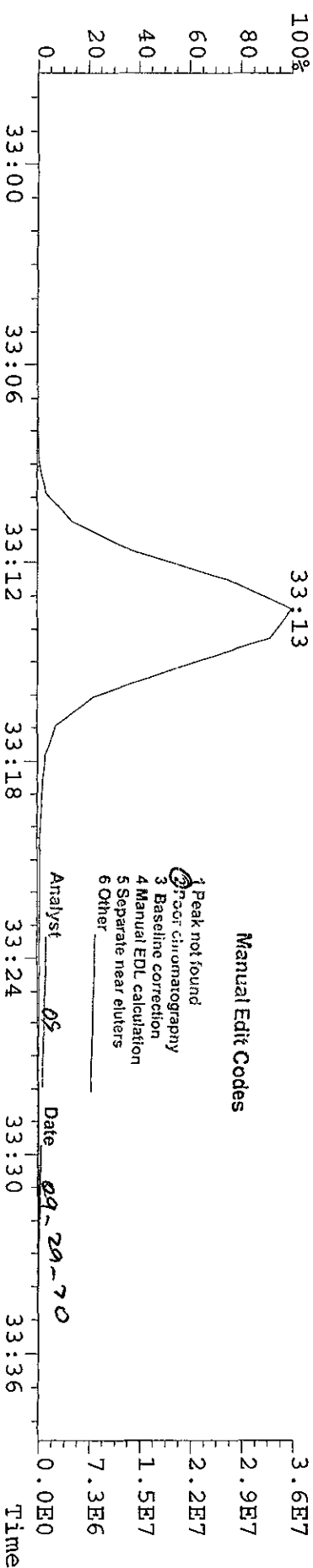
423.7766 S:23 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3364.0,1.00%,F,T)



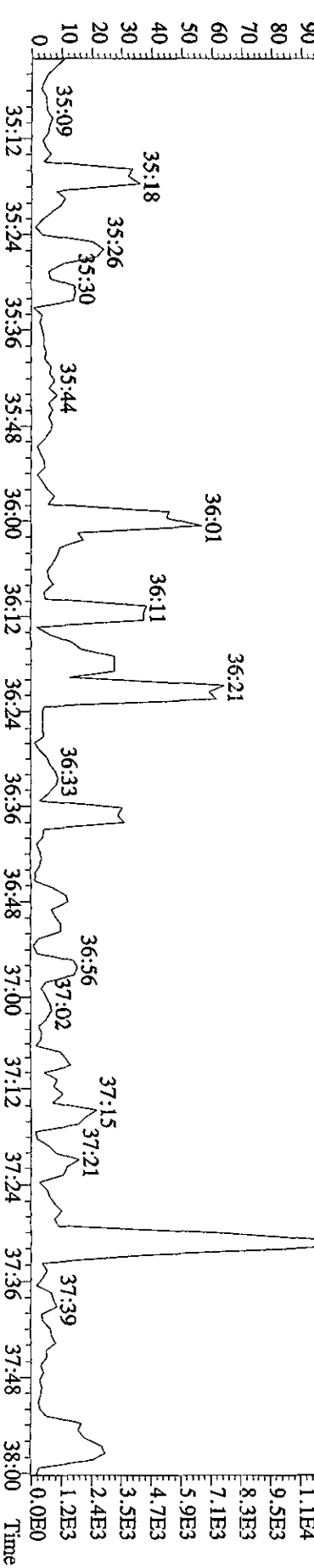
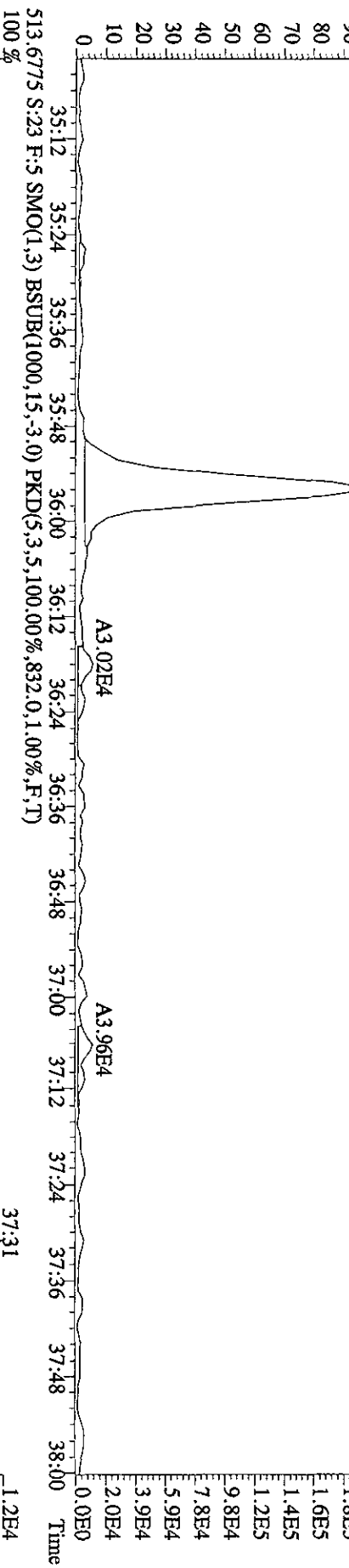
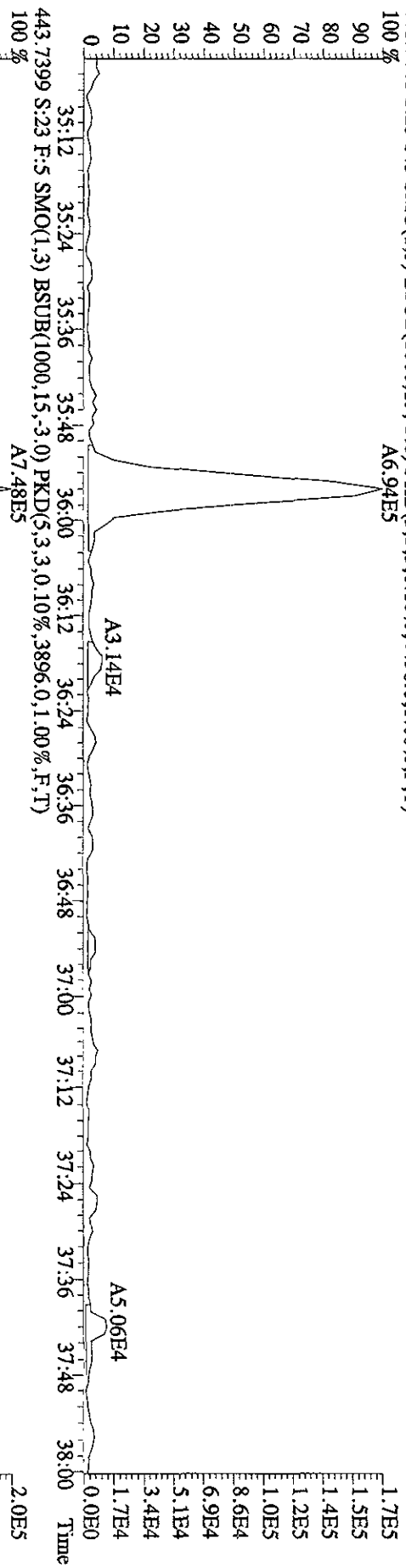
425.7737 S:23 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2540.0,1.00%,F,T)



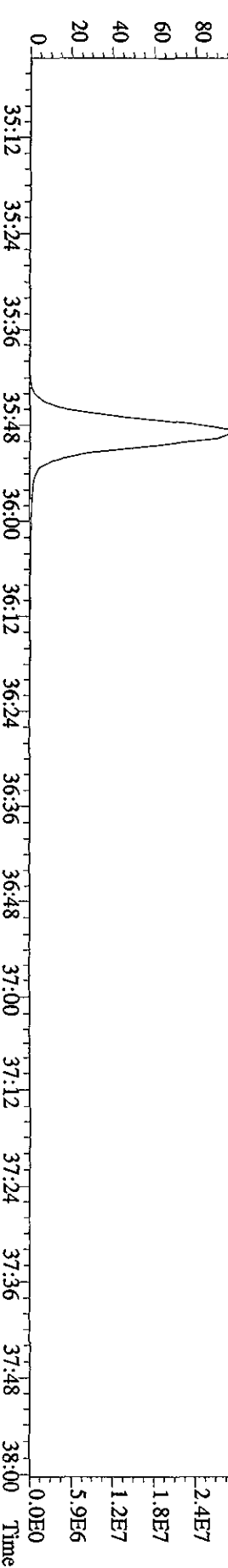
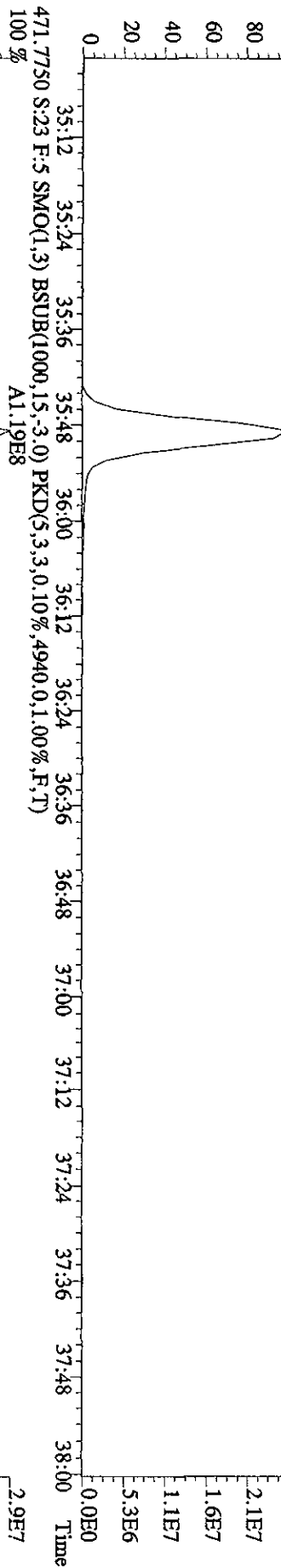
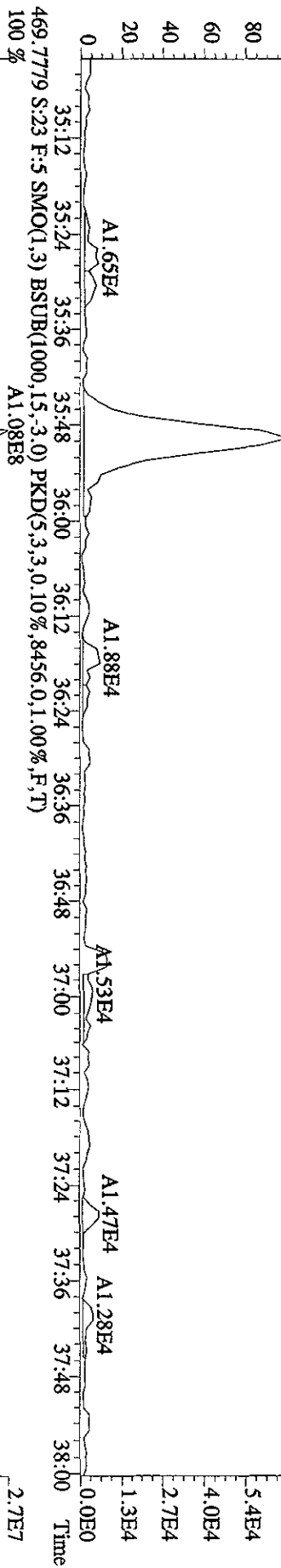
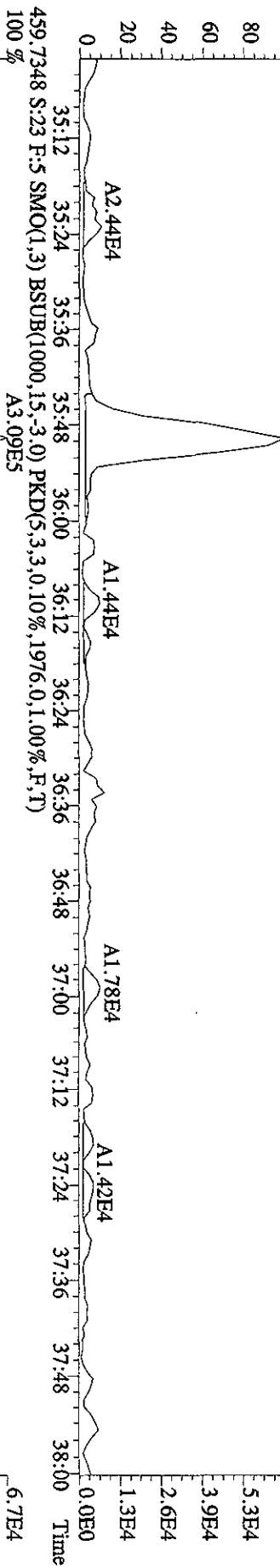
435.8169 S:23 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18272.0,1.00%,F,T)



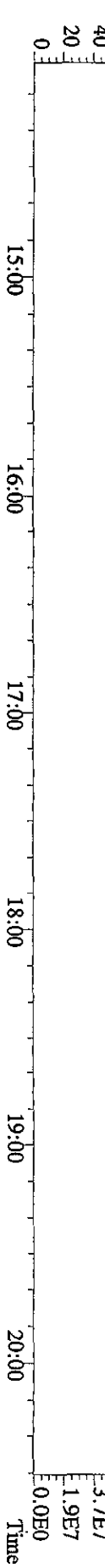
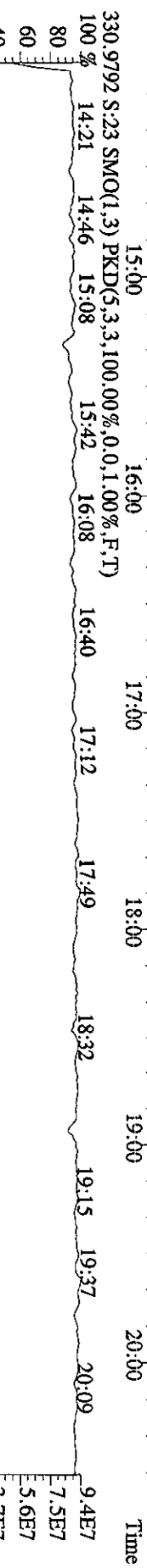
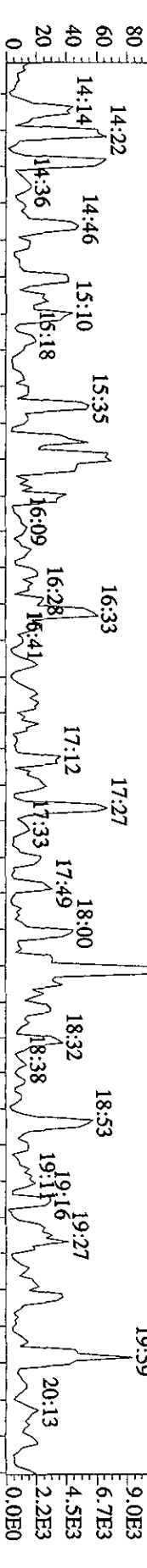
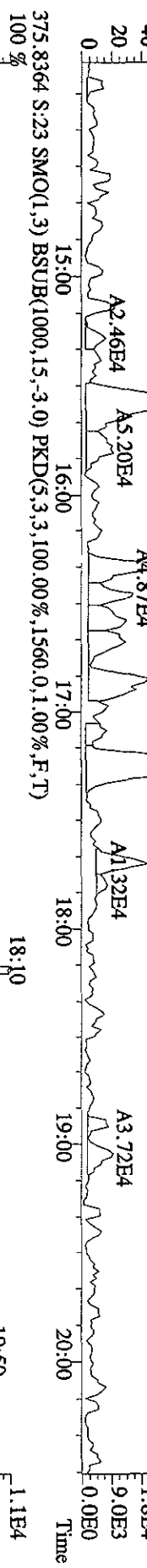
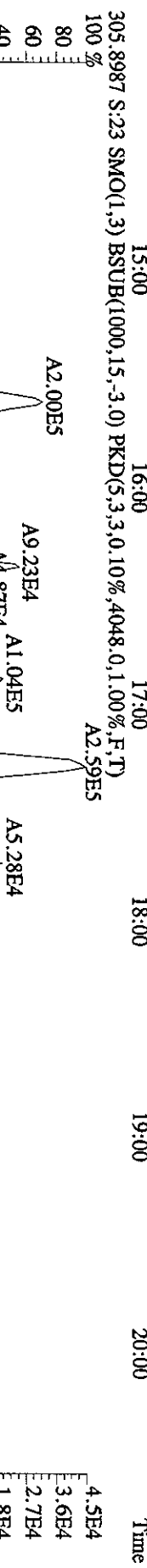
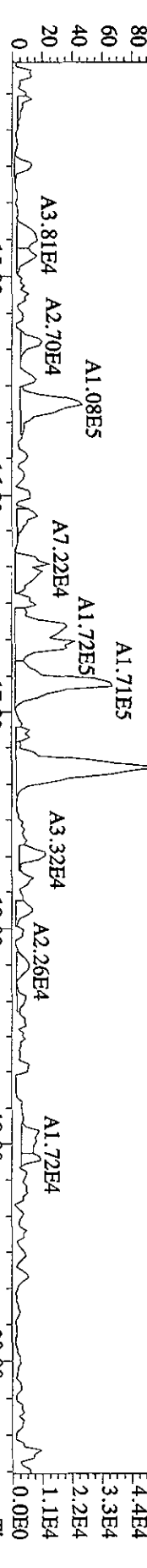
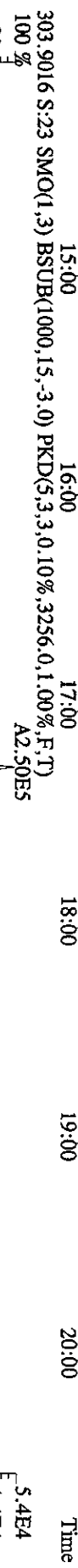
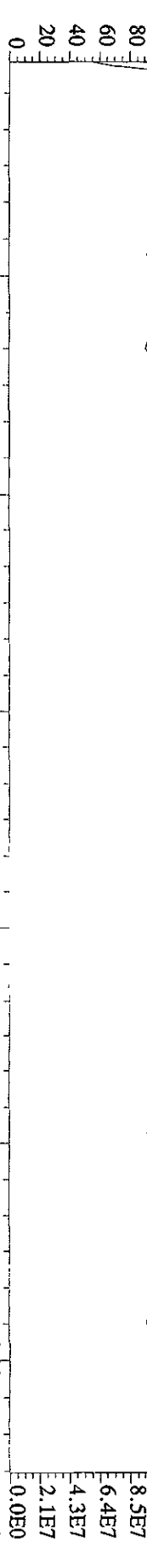
File: 27SEI01D5 #1-196 Acq: 28-SEP-2010 01:13:42 GC EI+ Voltage SIR 70SE  
 Sample# 23 Text: L7D06-1-AA : G01230491-13 Exp: DIOXINRES  
 441.7428 S:23 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4496,0,1,00%,F,T)  
 100% A6.94E5



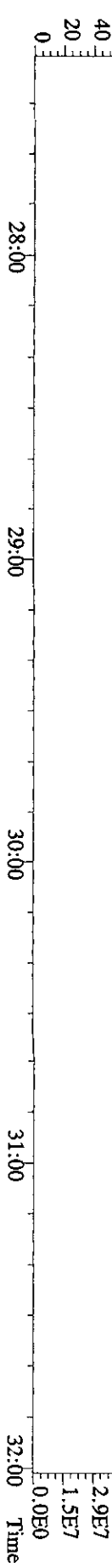
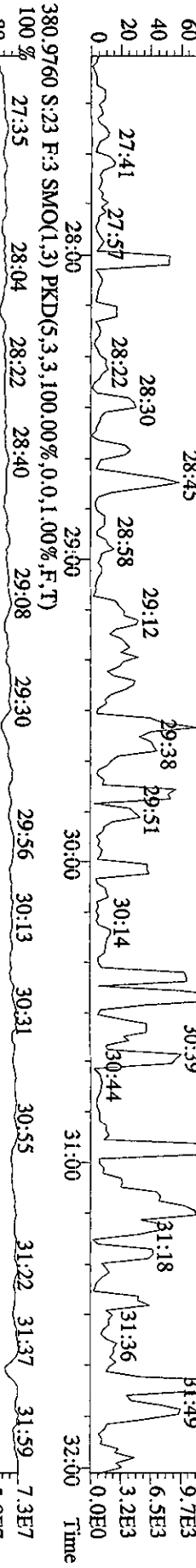
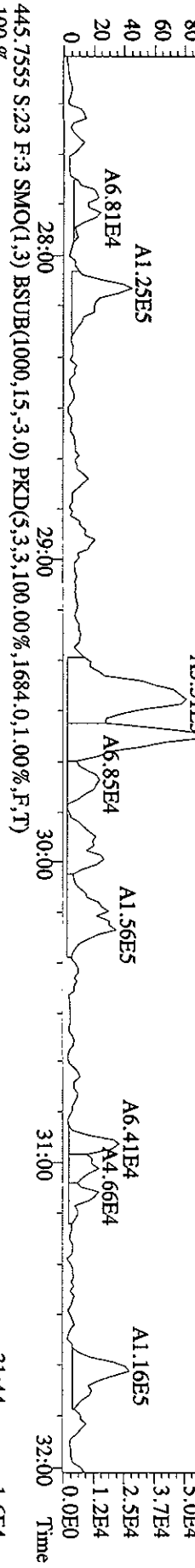
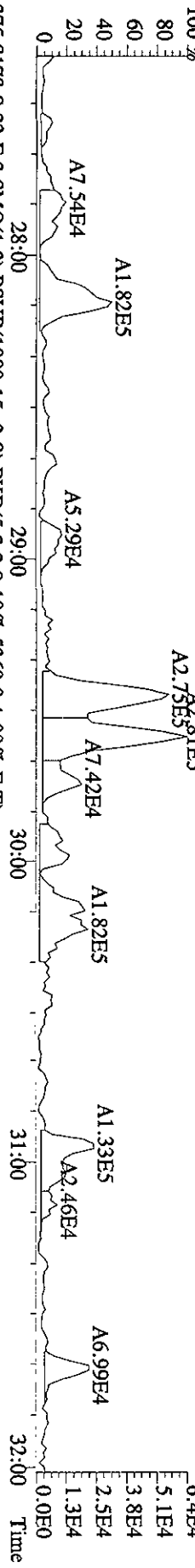
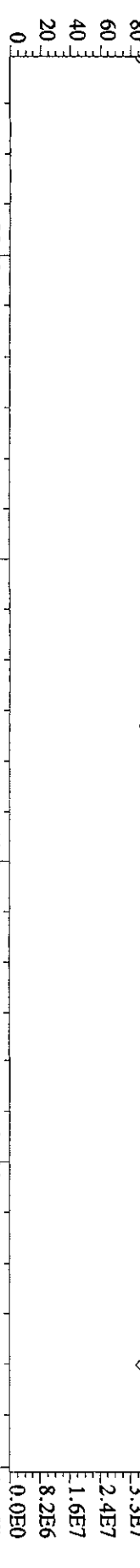
File: 27SEI01D5 #1-196 Acq: 28-SEP-2010 01:13:42 GC EI+ Voltage SIR 70SE  
 Sample#23 Text: L7D06-1-AA :G01230491-13 Exp: DIOXINRES  
 457.7377 S:23 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2832,0,1,00%,F,T)  
 100 % A2.84E5



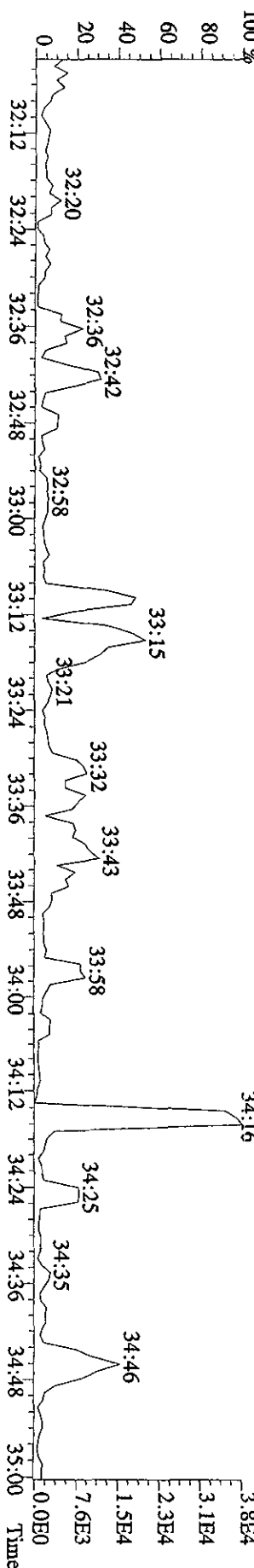
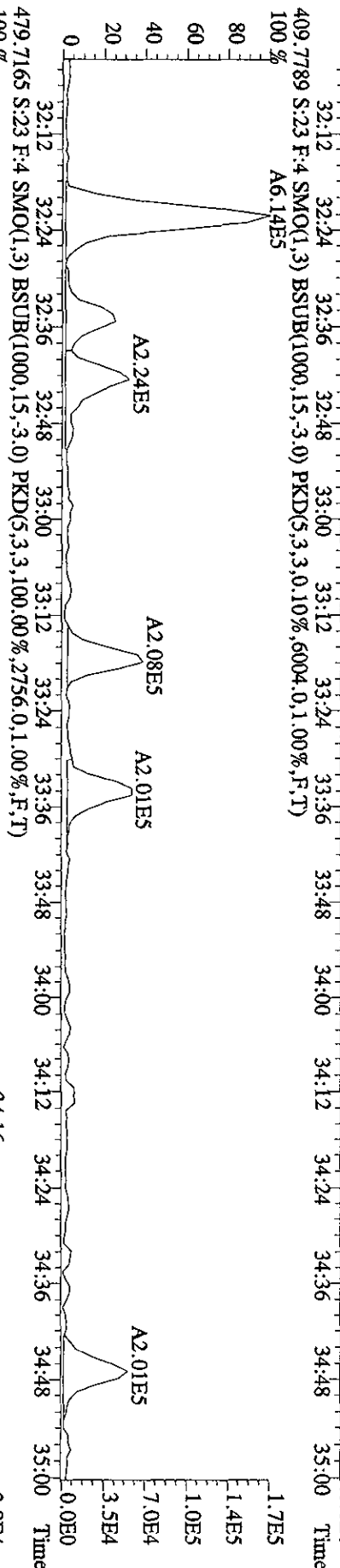
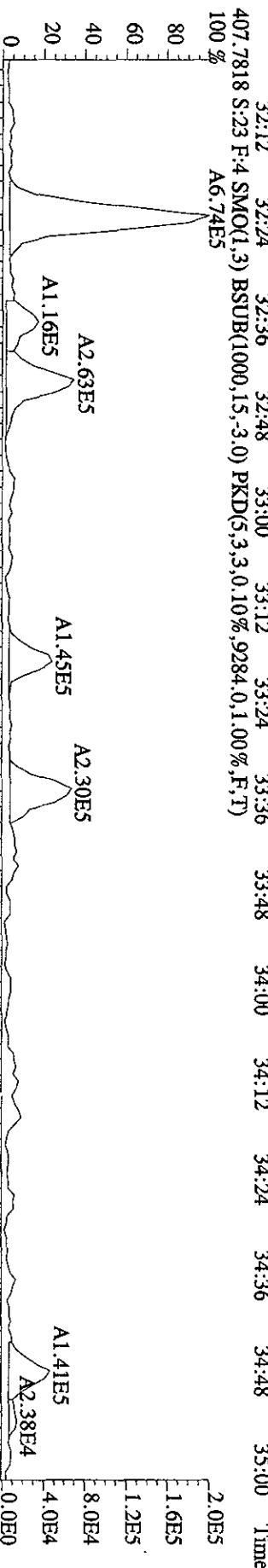
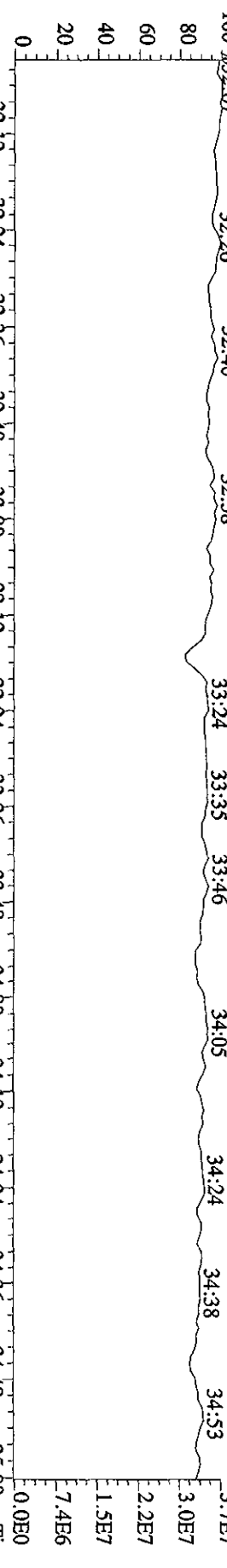
File: 27SE101D5 #1-382 Acq: 28-SEP-2010 01:13:42 GC EI+ Voltage SIR 70SE  
 Sample#23 Text: L7DQ6-1-AA :G01230491-13 Exp: DIOXINRES  
 292.9825 S:23 SMO(1,3) PKD(5,3,5,100,00%,0,0,1,00%,F,T)  
 100% 14:19 14:45 15:14 15:38 15:59 16:31 17:18 17:39 18:17 18:40 19:20 19:55 20:17





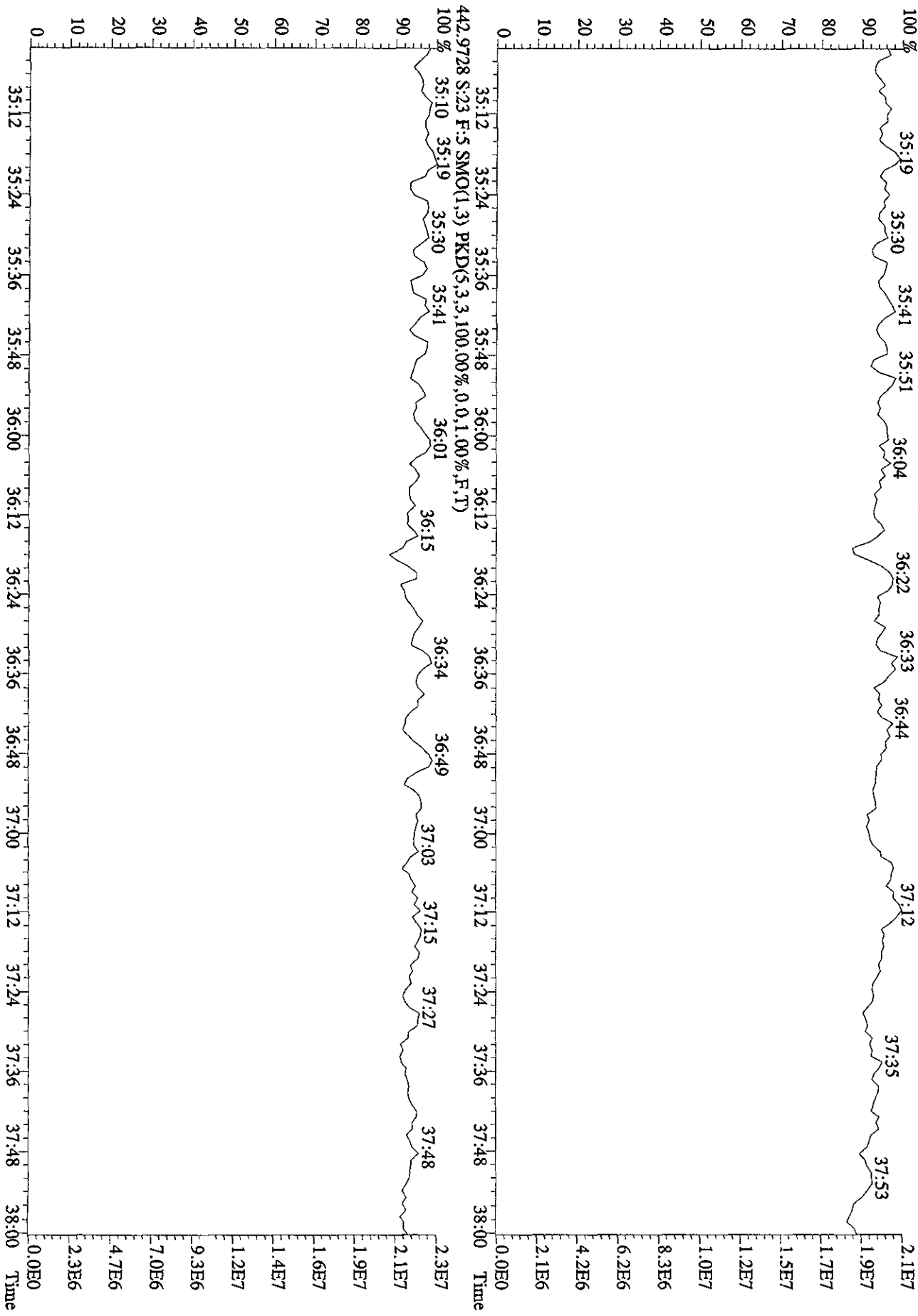


File: 27SE101D5 #1-202 Acq: 28-SEP-2010 01:13:42 GC EI+ Voltage SIR 70SE  
 Sample#23 Text: L7DQ6-1-AA :G01230491-13 Exp: DIOXINRES  
 430.9728 S:23 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100 % 32:07 32:26 32:40 32:58 33:24 33:35 33:46 34:05 34:24 34:38 34:53





File: 27SE101D5 #1-196 Acq: 28-SEP-2010 01:13:42 GC EI+ Voltage SIR 70SE  
 Sample#23 Text: L7DQ6-1-AA :G01230491-13 Exp.: DIOXINRES  
 454.9728 S:23 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: L7DRA-1-AA Sample text: L7DRA-1-AA :G0I230491-15  
 Run #14 Filename: 27SE101D5 S: 24 I: 1 Results: 27se101d5to9os  
 Acquired: 28-SEP-10 01:56:40 Processed: 28-SEP-10 09:22:58  
 Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5  
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 Sample

05  
09-29-10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	470834000	0.81 y	17:45	-	269.484	-	-	n
13C-2,3,7,8-TCDF	669658000	0.80 y	17:13	1.56	3639.713	1.463	91.0	n
2,3,7,8-TCDF	14402610	0.78 y	17:15	0.98	<del>87.450</del>	0.831	-	n
Total TCDF	67715155	0.94 n	14:48	0.98	411.155	0.831	-	n
13C-2,3,7,8-TCDD	392915000	0.82 y	17:56	0.92	3624.793	2.935	90.6	n
2,3,7,8-TCDD	145084	0.43 n	17:57	1.03	1.432	1.164	-	n
Total TCDD	2983801	0.36 n	15:43	1.03	<del>29.444</del> 27.954	1.164	-	n
37Cl-2,3,7,8-TCDD	213878000	1.00 y	17:57	1.23	1775.583	1.093	111.0	n
13C-1,2,3,7,8-PeCDF	460428000	1.63 y	22:16	1.05	3716.277	1.495	92.9	n
1,2,3,7,8-PeCDF	7638340	1.57 y	22:17	1.09	60.759	1.820	-	y
2,3,4,7,8-PeCDF	2692940	1.62 y	23:37	1.02	22.989	1.953	-	n
Total F2 PeCDF	30765815	1.53 y	20:44	1.05	252.033	1.884	-	y
Total F1 PeCDF	1180108	0.48 n	14:29	1.05	9.719	<del>3.993</del> 3.98	-	n
13C-1,2,3,7,8-PeCDD	253885900	1.67 y	24:19	0.56	3845.665	1.762	96.1	n
1,2,3,7,8-PeCDD	294024	1.37 y	24:22	1.07	4.328	2.295	-	n
Total PeCDD	1823438	1.21 n	21:09	1.07	<del>26.840</del> 15.29	2.295	-	n
13C-1,2,3,7,8,9-HxCDD	390075000	1.28 y	30:45	-	237.691	-	-	n
13C-1,2,3,4,7,8-HxCDF	280270300	0.51 y	29:27	0.99	2900.570	1.734	72.5	n
1,2,3,4,7,8-HxCDF	8766740	1.40 y	29:28	1.26	99.226	1.637	-	y
1,2,3,6,7,8-HxCDF	8549390	1.35 y	29:36	1.53	79.691	1.348	-	y
2,3,4,6,7,8-HxCDF	1912310	0.98 n	30:14	1.41	19.393	1.467	-	y
1,2,3,7,8,9-HxCDF	1619321	1.17 y	30:57	1.40	16.554	1.479	-	n
Total HxCDF	45408265	1.27 y	27:51	1.40	<del>465.439</del> 463.809	1.476	-	y
13C-1,2,3,6,7,8-HxCDD	221260900	1.33 y	30:28	0.74	3068.211	0.812	76.7	n
1,2,3,4,7,8-HxCDD	187695	1.18 y	30:24	1.12	3.030	1.557	-	n
1,2,3,6,7,8-HxCDD	460372	1.33 y	30:28	1.14	7.293	1.528	-	n
1,2,3,7,8,9-HxCDD	515220	1.51 n	30:46	1.35	6.880	1.288	-	n
Total HxCDD	2866260	1.04 n	28:50	1.20	<del>42.753</del> 40.563	1.447	-	n
13C-1,2,3,4,6,7,8-HpCDF	248822500	0.44 y	32:22	0.96	2668.676	6.591	66.7	n
1,2,3,4,6,7,8-HpCDF	30123700	1.05 y	32:23	1.41	343.897	2.658	-	n
1,2,3,4,7,8,9-HpCDF	10138230	1.00 y	33:35	1.24	131.884	3.028	-	n
Total HpCDF	56141265	1.05 y	32:23	1.32	<del>668.881</del> 661.521	2.831	-	n
13C-1,2,3,4,6,7,8-HpCDD	219903000	1.07 y	33:13	0.71	3166.225	2.706	79.2	n
1,2,3,4,6,7,8-HpCDD	1345724	1.02 y	33:15	1.13	21.579	1.360	-	y
Total HpCDD	2532861	2.95 n	32:21	1.13	<del>40.616</del> 34.31	1.360	-	y
13C-OCDD	201645800	0.91 y	35:50	0.35	5862.924	2.863	73.3	n
OCDF	37263600	0.86 y	35:56	2.12	698.167	1.638	-	n

OCDD 897954 1.13 n 35:50 1.37 25.983 2.101 - n

Run Text: L7DRA-1-AA

Sample text: L7DRA-1-AA :G0I230491-15

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:16  
 Run: 14 File: 27SE101D5 S:24 Acq:28-SEP-10 01:56:40  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 205.58 of which 43.73 named and 161.85 unnamed  
 Conc: 411.15 of which 87.45 named and 323.70 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:48	0.94 n	3.83	334619 356214	20.5 14.1	y y	n n
	2	15:09	0.82 y	1.80	132890 162876	6.7 6.1	y y	n n
	3	15:19	0.93 n	1.52	132280 141664	7.5 5.2	y y	n n
	4	15:34	0.82 y	88.14	6561260 7955410	369.7 310.3	y y	n n
	5	15:49	0.78 y	16.48	1188890 1525520	51.4 52.6	y y	n n
	6	16:07	0.82 y	12.48	928711 1127250	29.8 29.9	y y	n n
	7	16:20	0.81 y	42.87	3169730 3890550	160.5 147.2	y y	n n
	8	16:35	0.86 y	41.76	3173420 3704760	148.3 116.0	y y	n n
	9	16:43	0.73 y	15.58	1085010 1481440	54.1 51.1	y y	n n
	10	16:53	0.82 y	66.17	4898280 6000280	255.9 220.2	y y	n n
	11	17:05	0.89 n	3.94	325561 366376	15.6 10.7	y y	n n
2,3,7,8-TCDF	12	17:15	0.78 y	87.45	6305070 8097540	284.7 264.4	y y	n n
	13	17:41	0.69 y	12.97	874681 1261050	41.8 41.2	y y	n n
	14	17:54	0.80 y	6.19	453728 565531	17.9 13.1	y y	n n
	15	18:08	0.70 y	4.10	277722 397449	11.8 11.3	y y	n n

16	19:06	0.72	y	5.87	403580	16.2	y	n
					562797	15.3	y	n

Run Text: L7DRA-1-AA

Sample text: L7DRA-1-AA :G0I230491-15

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:9  
 Run: 14 File: 27SE101D5 S:24 Acq:28-SEP-10 01:56:40  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 14.72 of which 0.72 named and 14.01 unnamed  
 Conc: 29.44 of which 1.43 named and 28.01 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:43	0.36 n	<del>0.88</del>	38922 108967	2.9 5.1	n y	n n
	2	16:02	0.81 y	14.17	644354 791509	39.5 41.5	y y	n n
	3	16:50	0.89 n	3.75	190637 214525	7.7 10.3	y y	n n
	4	17:02	1.16 n	1.24	82652 71072	4.5 3.8	y y	n n
	5	17:13	4.33 n	<del>0.61</del>	150462 34772	9.6 2.2	y n	n n
	6	17:27	0.47 n	1.23	54020 114509	3.0 6.1	y y	n n
	7	17:52	0.49 n	4.53	199795 403741	10.0 11.1	y y	n n
2,3,7,8-TCDD	8	17:57	0.43 n	1.43	63116 147980	4.0 7.1	y y	n n
	9	18:20	0.99 n	1.61	91230 92027	4.4 3.6	y y	n n

Run Text: L7DRA-1-AA

Sample text: L7DRA-1-AA :G0I230491-15

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:12

Run: 14 File: 27SE101D5 S:24 Acq:28-SEP-10 01:56:40

Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 124.03 of which 44.08 named and 79.96 unnamed  
 Conc: 248.07 of which 88.15 named and 159.91 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:44	1.53 y	7.37	540676 354379	19.8 8.5	y	n
	2	20:56	1.65 y	56.20	4251400 2573110	106.0 46.4	y	n
	3	21:12	1.36 y	4.99	349041 256854	10.9 5.7	y	n
	4	21:26	1.76 y	8.29	641982 364636	20.0 8.6	y	n
	5	21:48	1.70 y	26.55	2031080 1192360	40.6 17.8	y	n
1,2,3,7,8-PeCDF	6	22:17	1.75 y	65.16	5210130 2981890	143.1 68.2	y	n
	7	22:35	1.81 n	5.78	496806 275171	13.7 4.8	y	n
	8	22:51	1.48 y	22.27	1614370 1089540	39.2 17.1	y	n
2,3,4,7,8-PeCDF	9	23:37	1.62 y	22.99	1663430 1029500	45.5 21.3	y	n
	10	23:58	1.12 n	17.83	1316330 1176460	25.4 15.3	y	n
	11	24:29	1.45 y	4.73	339782 234543	10.4 4.9	y	n
	12	25:37	1.64 y	5.90	445194 271705	11.0 5.2	y	n

*See 3A*

Run Text: L7DRA-1-AA

Sample text: L7DRA-1-AA :G0I230491-15

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? yes #Hom:13

Run: 14 File: 27SE101D5 S:24 Acq:28-SEP-10 01:56:40

Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount:	126.02 of which	41.87 named and	84.14 unnamed
Conc:	252.03 of which	83.75 named and	168.29 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:44	1.53 y	7.37	540676 354379	19.8 8.5	y	n
	2	20:56	1.65 y	56.20	4251410 2573110	106.0 46.4	y	n
	3	21:12	1.36 y	4.99	349041 256854	10.9 5.7	y	n
	4	21:26	1.76 y	8.29	641982 364636	20.0 8.6	y	n
	5	21:48	1.70 y	26.55	2031080 1192360	40.6 17.8	y	n
	6	22:11	1.55 y	8.37	617764 398839	20.6 9.7	y	y
1,2,3,7,8-PeCDF	7	22:17	1.57 y	60.76	4662350 2975990	143.8 68.5	y	y
	8	22:35	1.81 n	<del>5.78</del>	496807 275171	13.7 4.8	y	n
	9	22:51	1.48 y	22.27	1614380 1089540	39.2 17.1	y	n
2,3,4,7,8-PeCDF	10	23:37	1.62 y	22.99	1663440 1029500	45.5 21.3	y	n
	11	23:58	1.12 n	<del>17.83</del>	1316330 1176460	25.4 15.3	y	n
	12	24:29	1.45 y	4.73	339782 234542	10.4 4.9	y	n
	13	25:37	1.64 y	5.90	445194 271705	11.0 5.2	y	n

artifact

3A



Run Text: L7DRA-1-AA

Sample text: L7DRA-1-AA :G0I230491-15

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:5  
 Run: 14 File: 27SE101D5 S:24 Acq:28-SEP-10 01:56:40  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 4.86 of which \* named and 4.86 unnamed  
 Conc: 9.72 of which \* named and 9.72 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:29	0.48	n 0.19	13958 29324	1.4 1.8	n	n
	2	15:18	0.73	n 2.72	201022 275672	17.9 20.8	y	n
	3	17:51	1.88	n 0.37	33236 17660	1.7 1.8	n	n
	4	18:55	0.52	n 2.46	181468 350902	11.8 22.6	y	n
	5	19:23	1.52	y 3.98	291406 191450	21.6 8.5	y	n

*ow*

Run Text: L7DRA-1-AA

Sample text: L7DRA-1-AA :G0I230491-15

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:5  
 Run: 14 File: 27SE101D5 S:24 Acq:28-SEP-10 01:56:40  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 13.42 of which 2.16 named and 11.26 unnamed  
 Conc: 26.84 of which 4.33 named and 22.51 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	21:09	1.21 n	2.45	101297 83735	3.4 6.6	y	n
	2	22:16	2.52 n	<del>2.26</del>	151510 60082	4.0 4.4	y	n
	3	22:51	1.34 y	8.51	331082 246719	10.3 15.7	y	n
	4	24:01	2.58 n	<del>9.30</del>	640306 247747	18.6 12.9	y	n
1,2,3,7,8-PeCDD	5	24:22	1.37 y	4.33	169893 124131	4.7 7.2	y	n

Run Text: L7DRA-1-AA

Sample text: L7DRA-1-AA :G0I230491-15

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:14  
 Run: 14 File: 27SE101D5 S:24 Acq:28-SEP-10 01:56:40  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 234.15 of which 140.32 named and 93.82 unnamed  
 Conc: 468.30 of which 280.65 named and 187.65 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	27:51	1.27 y	30.34	1665310 1308260	39.5 36.9	y	n
	2	28:08	1.30 y	57.79	3205400 2458950	85.5 66.2	y	n
	3	28:25	1.23 y	2.87	155481 126068	5.6 3.5	y	n
	4	28:40	1.00 n	9.15	496496 496738	14.1 15.9	y	n
	5	28:56	1.04 n	10.85	588892 564824	20.3 23.4	y	n
1,2,3,4,7,8-HxCDF	6	29:28	1.34 y	132.69	6715740 5007670	222.8 183.6	y	n
1,2,3,6,7,8-HxCDF	7	29:36	1.36 y	79.40	4905320 3612750	188.7 161.6	y	n
	8	29:44	1.28 y	29.62	1629680 1273790	62.8 51.8	y	n
	9	29:59	1.22 y	26.01	1403460 1145980	42.8 36.3	y	n
2,3,4,6,7,8-HxCDF	10	30:10	1.21 y	52.01	2808100 2320110	73.0 62.2	y	n
1,2,3,7,8,9-HxCDF	11	30:57	1.17 y	16.55	874548 744773	38.5 35.7	y	n
	12	31:01	1.31 y	19.38	1077790 821560	42.5 37.0	y	n
	13	31:41	1.26 y	1.02	55617 44248	2.1 2.7	n	n
	14	31:47	1.80 n	0.61	48219 26857	2.1 1.3	n	n

Run Text: L7DRA-1-AA

Sample text: L7DRA-1-AA :G0I230491-15

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? yes #Hom:16  
 Run: 14 File: 27SE101D5 S:24 Acq:28-SEP-10 01:56:40  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 232.72 of which 107.43 named and 125.29 unnamed  
 Conc: 465.44 of which 214.86 named and 250.58 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	27:51	1.27 y	30.34	1665310 1308260	39.5 36.9	y	n
	2	28:08	1.30 y	57.79	3205400 2458950	85.5 66.2	y	n
	3	28:25	1.23 y	2.87	155481 126068	5.6 3.5	y	n
	4	28:40	1.00 n	9.15	496496 496738	14.1 15.9	y	n
	5	28:56	1.04 n	10.85	588892 564825	20.3 23.4	y	n
	6	29:26	1.16 y	31.02	1633770 1406840	132.6 125.3	y	y
1,2,3,4,7,8-HxCDF	7	29:28	1.40 y	99.23	5120180 3646560	223.4 184.4	y	y
1,2,3,6,7,8-HxCDF	8	29:36	1.35 y	79.69	4905320 3644070	188.7 162.4	y	n
	9	29:44	1.28 y	29.62	1629680 1273800	62.8 51.8	y	n
	10	29:59	1.22 y	26.01	1403460 1145980	42.8 36.3	y	n
	11	30:10	1.37 y	31.91	1808390 1319040	73.6 63.0	y	y
2,3,4,6,7,8-HxCDF	12	30:14	0.98 n	19.39	1058600 1084320	51.0 49.0	y	y
1,2,3,7,8,9-HxCDF	13	30:57	1.17 y	16.55	874548 744773	38.5 35.7	y	n
	14	31:01	1.31 y	19.38	1077790 821560	42.5 37.0	y	n
	15	31:41	1.26 y	<del>1</del> .02	55617 44248	2.1 2.7	n	n

16	31:47	1.80	n	<del>0.61</del>	48219	2.1	n	n
					26857	1.3	n	n

Run Text: L7DRA-1-AA

Sample text: L7DRA-1-AA :G0I230491-15

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:9  
 Run: 14 File: 27SE101D5 S:24 Acq:28-SEP-10 01:56:40  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 21.38 of which 8.60 named and 12.78 unnamed  
 Conc: 42.75 of which 17.20 named and 25.55 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	28:50	1.04 n	2.92	107893 103763	4.9 6.0	y	n
	2	29:30	1.41 y	13.30	518799 367562	18.2 15.9	y	n
	3	29:46	1.27 y	7.13	265922 209500	14.1 10.9	y	n
1,2,3,4,7,8-HxCDD	4	30:24	1.18 y	3.03	101738 85957	6.3 6.2	y	n
1,2,3,6,7,8-HxCDD	5	30:28	1.33 y	7.29	262719 197653	18.7 11.2	y	n
	6	30:37	0.45 n	<del>0.26</del>	9620 21564	0.8 1.8	n	n
1,2,3,7,8,9-HxCDD	7	30:46	1.51 n	6.88	347597 230009	20.3 13.8	y	n
	8	31:41	1.33 y	<del>1.60</del>	61032 45753	3.2 3.2	y	n
	9	31:47	1.09 y	<del>0.33</del>	11551 10573	0.9 0.8	n	n

Run Text: L7DRA-1-AA

Sample text: L7DRA-1-AA :G0I230491-15

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:6  
 Run: 14 File: 27SE101D5 S:24 Acq:28-SEP-10 01:56:40  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 334.44 of which 237.89 named and 96.55 unnamed  
 Conc: 668.88 of which 475.78 named and 193.10 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	32:23	1.05	y	343.90	15460600	289.9	y n
						14663100	570.1	y n
	2	32:35	1.08	y	75.06	3201740	57.8	y n
						2971030	109.0	y n
3	32:42	1.05	y	110.68	4660660	82.6	y n	
					4440740	161.3	y n	
4	33:18	0.55	n	<del>3.32</del>	139131	2.9	n n	
					253903	9.3	y n	
1,2,3,4,7,8,9-HpCDF	5	33:35	1.00	y	131.88	5070320	88.9	y n
						5067910	176.0	y n
6	34:48	0.94	y	<del>4.04</del>	160917	2.4	n n	
					171337	6.7	y n	

Run Text: L7DRA-1-AA

Sample text: L7DRA-1-AA :G0I230491-15

Name: Total HpCDD

F:4 Mass: 423.777 425.774 Mod? no #Hom:5

Run: 14 File: 27SE101D5 S:24 Acq:28-SEP-10 01:56:40

Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount:	22.64 of which	13.12 named and	9.52 unnamed
Conc:	45.27 of which	26.24 named and	19.04 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:21	2.95	n	1.03	92672	7.7	y n
						31390	1.8	n n
	2	32:39	1.24	n	12.73	482093	38.0	y n
						389100	23.8	y n
1,2,3,4,6,7,8-HpCDD	3	33:15	1.13	y	26.24	867600	55.8	y n
						768642	36.0	y n
	4	33:33	4.20	n	0.65	83112	6.8	y n
						19799	1.6	n n
	5	34:47	1.36	n	4.63	192651	16.8	y n
						141641	9.3	y n

*See  
ay A*



Run Text: L7DRA-1-AA

Sample text: L7DRA-1-AA :G0I230491-15

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? yes #Hom:5  
 Run: 14 File: 27SE101D5 S:24 Acq:28-SEP-10 01:56:40  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 20.31 of which 10.79 named and 9.52 unnamed  
 Conc: 40.62 of which 21.58 named and 19.04 unnamed

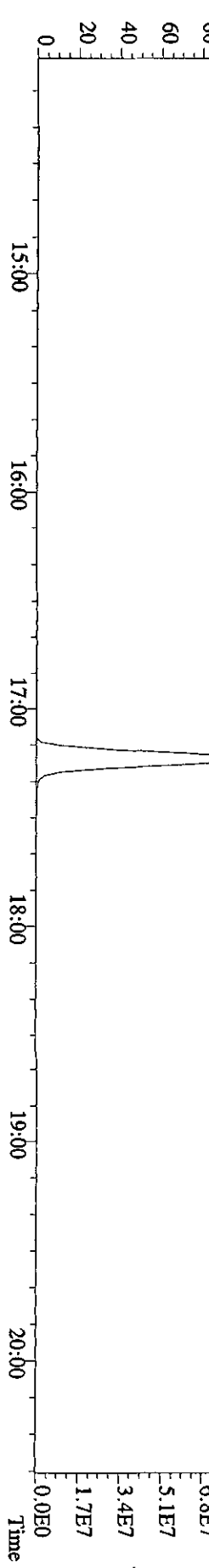
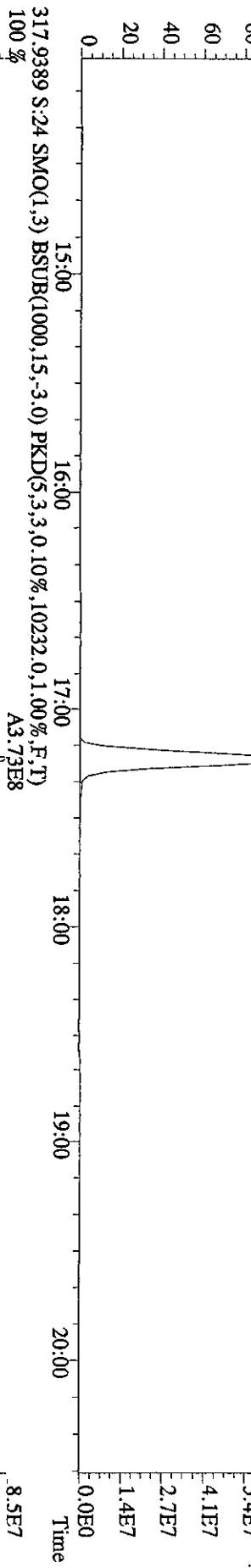
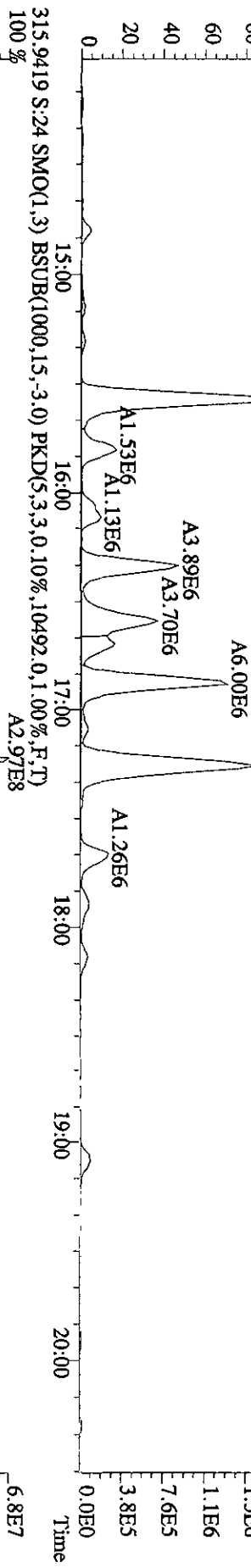
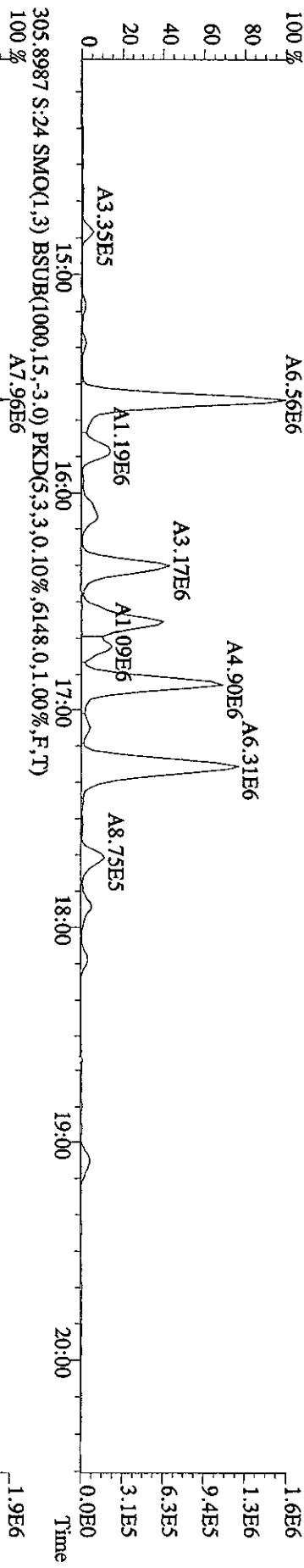
Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:21	2.95	n 1.03	92672 31390	7.7	y	n
	2	32:39	1.24	n 12.73	482093 389100	38.0	y	n
1,2,3,4,6,7,8-HpCDD	3	33:15	1.02	y 21.58	680783 664941	56.6	y	y
	4	33:33	4.20	n 0.65	83112 19798	6.8	y	n
	5	34:47	1.36	n 4.63	192651 141641	16.8	y	n

*QA*

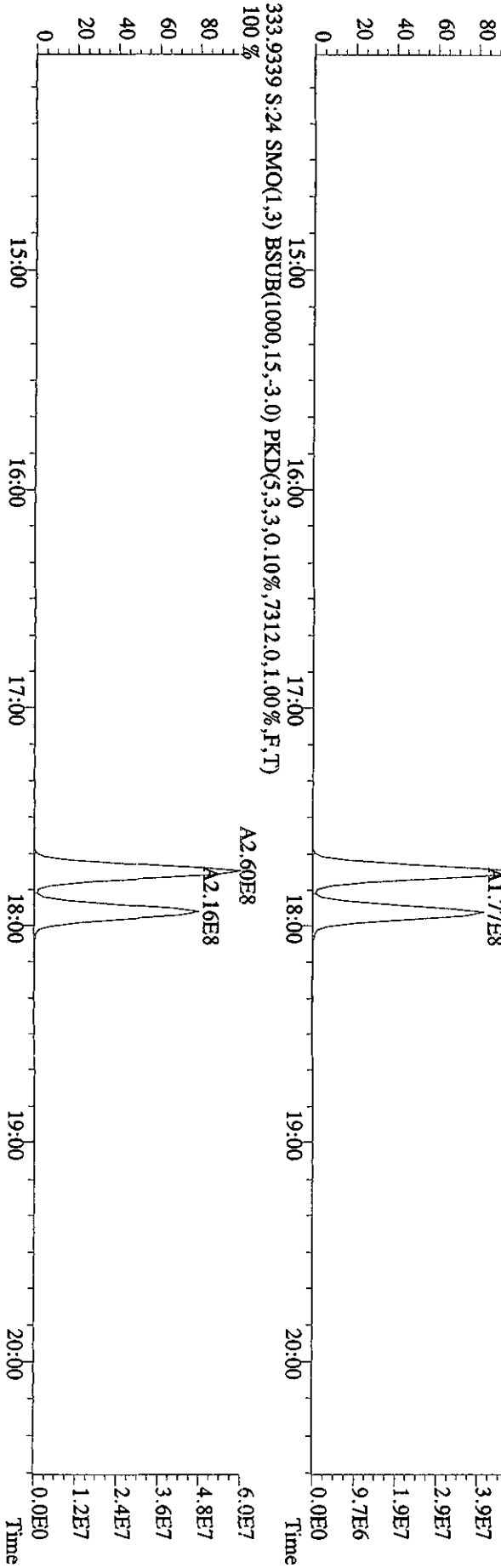
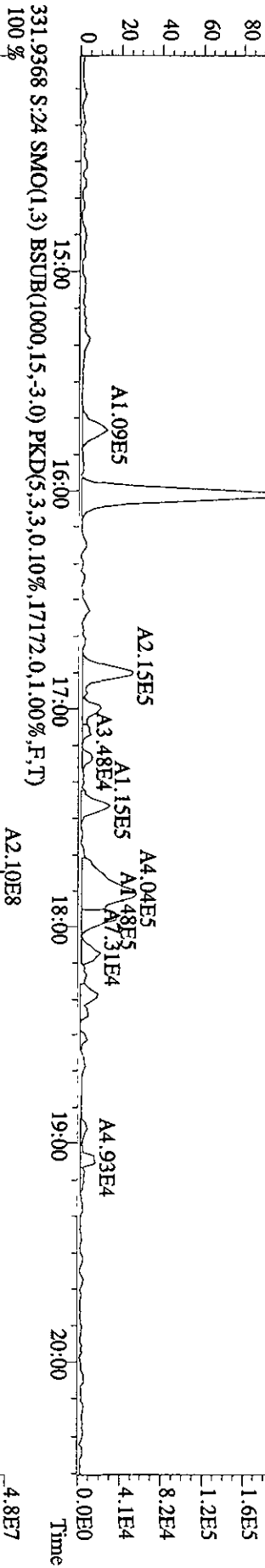
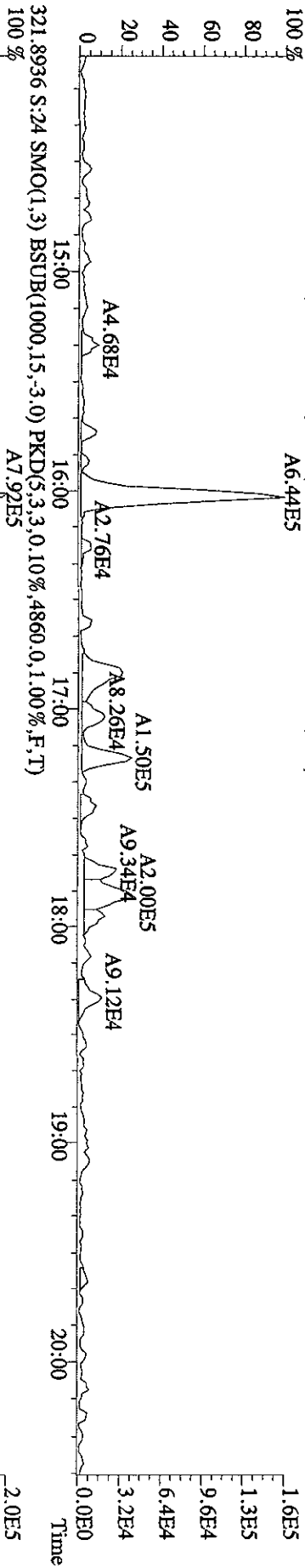
Run text: L7DRA-1-AA Sample text: L7DRA-1-AA :G0I230491-15  
 Run #14 Filename: 27SE101D5 S: 24 I: 1 Results: 27SE101D5TO9  
 Acquired: 28-SEP-10 01:56:40 Processed: 28-SEP-10 09:22:58  
 Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5  
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000Sample

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	470834000	0.81 y	17:45	-	269.48	-	-	n
13C-2,3,7,8-TCDF	669658000	0.80 y	17:13	1.56	3639.71	1.46	91.0	n
2,3,7,8-TCDF	14402610	0.78 y	17:15	0.98	87.45	0.83	-	n
Total TCDF	67715155	0.94 n	14:48	0.98	411.15	0.83	-	n
13C-2,3,7,8-TCDD	392915000	0.82 y	17:56	0.92	3624.79	2.93	90.6	n
2,3,7,8-TCDD	145084	0.43 n	17:57	1.03	1.43	1.16	-	n
Total TCDD	2983801	0.36 n	15:43	1.03	29.44	1.16	-	n
37Cl-2,3,7,8-TCDD	213878000	1.00 y	17:57	1.23	1775.58	1.09	111.0	n
13C-1,2,3,7,8-PeCDF	460428000	1.63 y	22:16	1.05	3716.28	1.50	92.9	n
1,2,3,7,8-PeCDF	8192020	1.75 y	22:17	1.09	65.16	1.82	-	n
2,3,4,7,8-PeCDF	2692930	1.62 y	23:37	1.02	22.99	1.95	-	n
Total F2 PeCDF	30302863	1.53 y	20:44	1.05	248.07	1.88	-	n
Total F1 PeCDF	1180108	0.48 n	14:29	1.05	9.72	0.85	-	n
13C-1,2,3,7,8-PeCDD	253885900	1.67 y	24:19	0.56	3845.67	1.76	96.1	n
1,2,3,7,8-PeCDD	294024	1.37 y	24:22	1.07	4.33	2.29	-	n
Total PeCDD	1823438	1.21 n	21:09	1.07	26.84	2.29	-	n
13C-1,2,3,7,8,9-HxCDD	390075000	1.28 y	30:45	-	237.69	-	-	n
13C-1,2,3,4,7,8-HxCDF	280270300	0.51 y	29:27	0.99	2900.57	1.73	72.5	n
1,2,3,4,7,8-HxCDF	11723410	1.34 y	29:28	1.26	132.69	1.64	-	n
1,2,3,6,7,8-HxCDF	8518070	1.36 y	29:36	1.53	79.40	1.35	-	n
2,3,4,6,7,8-HxCDF	5128210	1.21 y	30:10	1.41	52.01	1.47	-	n
1,2,3,7,8,9-HxCDF	1619321	1.17 y	30:57	1.40	16.55	1.48	-	n
Total HxCDF	45381466	1.27 y	27:51	1.40	468.30	1.48	-	n
13C-1,2,3,6,7,8-HxCDD	221260900	1.33 y	30:28	0.74	3068.21	0.81	76.7	n
1,2,3,4,7,8-HxCDD	187695	1.18 y	30:24	1.12	3.03	1.56	-	n
1,2,3,6,7,8-HxCDD	460372	1.33 y	30:28	1.14	7.29	1.53	-	n
1,2,3,7,8,9-HxCDD	515220	1.51 n	30:46	1.35	6.88	1.29	-	n
Total HxCDD	2866260	1.04 n	28:50	1.20	42.75	1.45	-	n
13C-1,2,3,4,6,7,8-HpCDF	248822500	0.44 y	32:22	0.96	2668.68	6.59	66.7	n
1,2,3,4,6,7,8-HpCDF	30123700	1.05 y	32:23	1.41	343.90	2.66	-	n
1,2,3,4,7,8,9-HpCDF	10138230	1.00 y	33:35	1.24	131.88	3.03	-	n
Total HpCDF	56141265	1.05 y	32:23	1.32	668.88	2.83	-	n
13C-1,2,3,4,6,7,8-HpCDD	219903000	1.07 y	33:13	0.71	3166.22	2.71	79.2	n
1,2,3,4,6,7,8-HpCDD	1636242	1.13 y	33:15	1.13	26.24	1.36	-	n
Total HpCDD	2823379	2.95 n	32:21	1.13	45.27	1.36	-	n
13C-OCDD	201645800	0.91 y	35:50	0.35	5862.92	2.86	73.3	n
OCDF	37263600	0.86 y	35:56	2.12	698.17	1.64	-	n
OCDD	897954	1.13 n	35:50	1.37	25.98	2.10	-	n

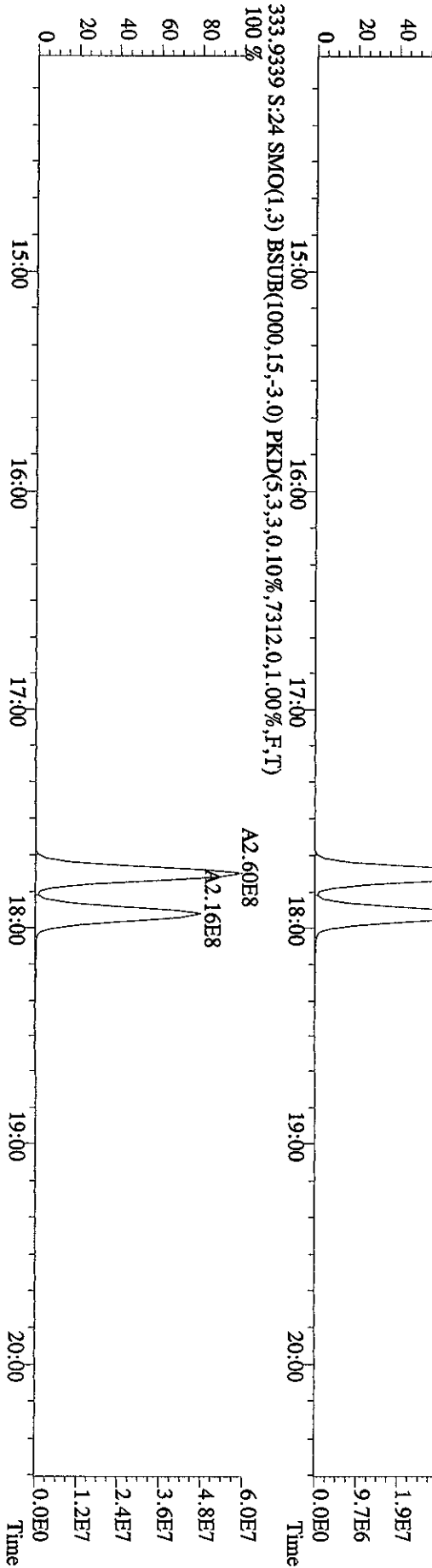
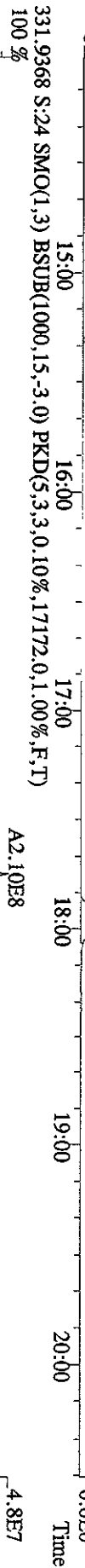
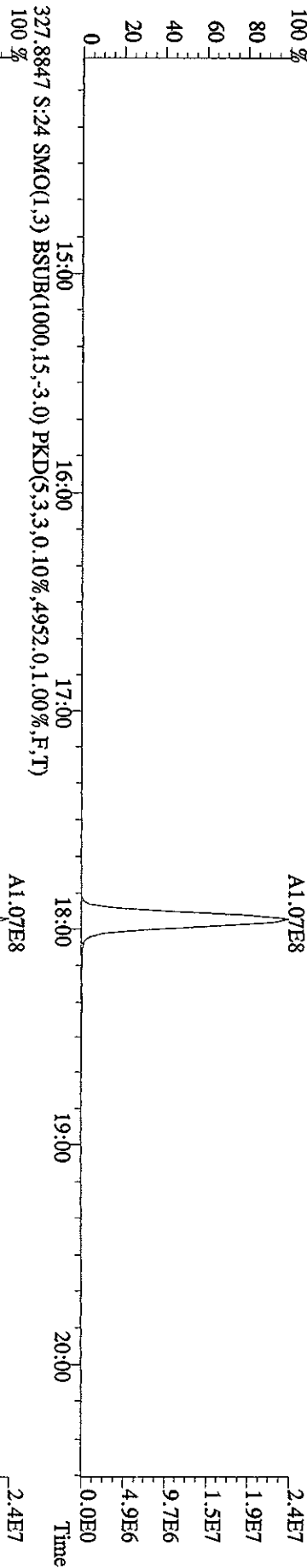
File:27SE101D5 #1-382 Acq:28-SEP-2010 01:56:40 GC EI + Voltage SIR 70SE  
 Sample#24 Text:L7DRA-1-AA :G0I230491-15 Exp:DIOXINRES  
 303.9016 S:24 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4228,0,1.00%,F,T)  
 100 % A6.56E6



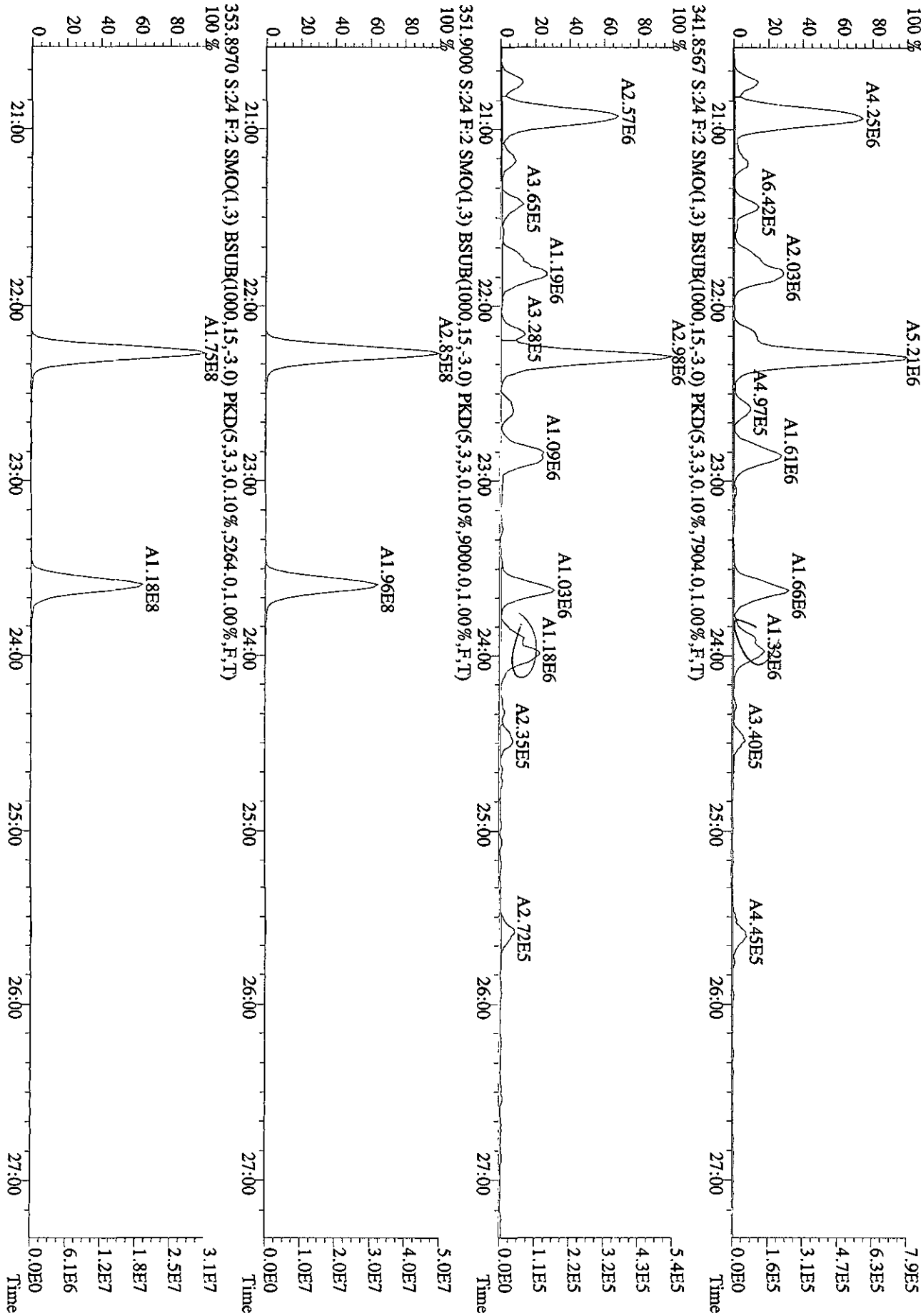
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 Sample# 24 Text: L7DRA-1-AA :G01230491-15 Exp: DIOXINRES  
 319.8965 S: 24 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4008,0,1,100%,F,T)



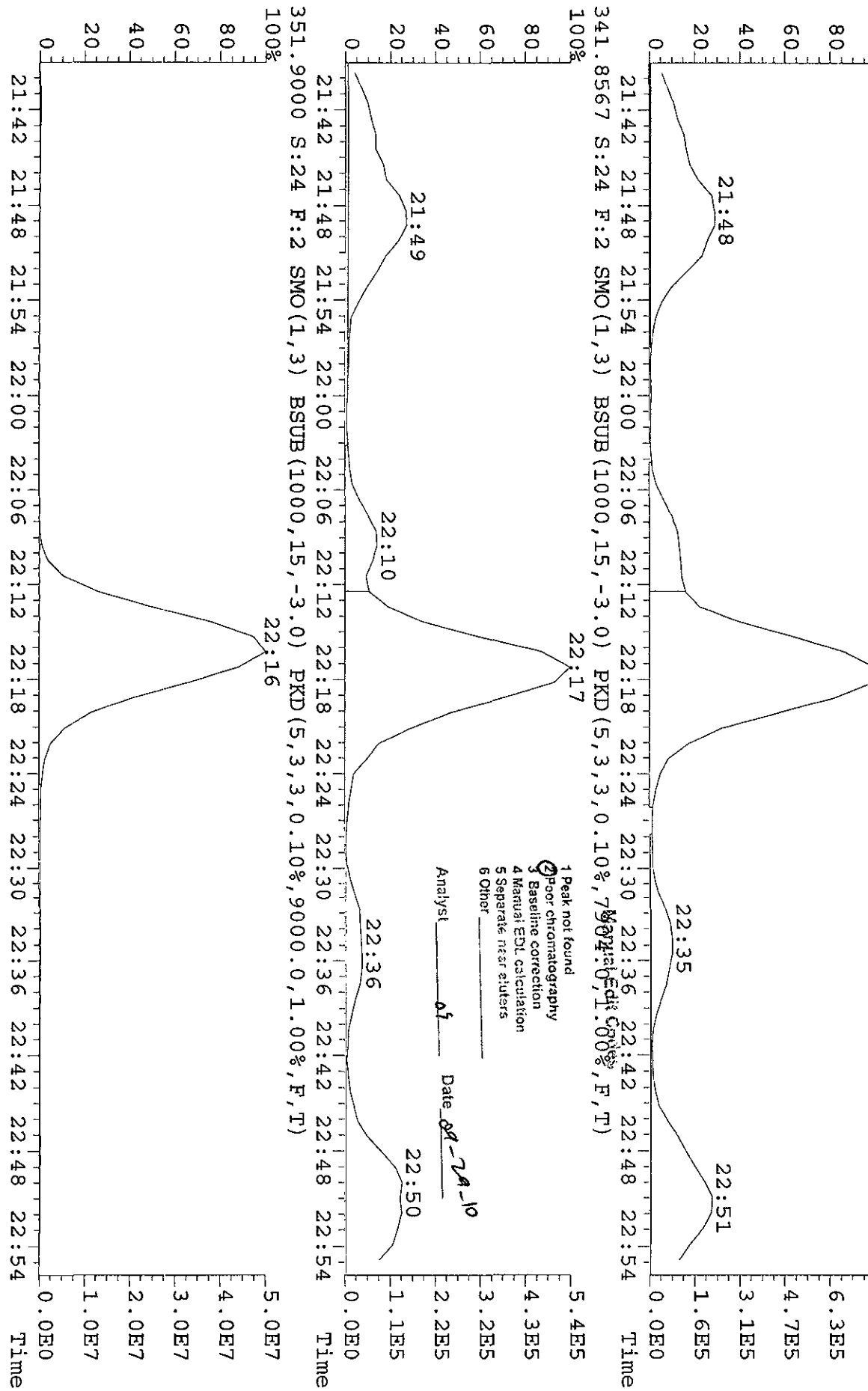
File: 27SE101D5 #1-382 Acq: 28-SEP-2010 01:56:40 GC EI+ Voltage SIR 70SE  
 Sample#24 Text: L7DRA-1-AA :G01230491-15 Exp: DIOXINRES  
 327.8847 S:24 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4952,0,1,00%,F,T)



File: 27SEI010D5 #1-423 Acq: 28-SEP-2010 01:56:40 GC EI+ Voltage S1R 70SE  
 Sample# 24 Text: L7DRA-1-AA : G01230491-15 Exp: DIOXINRES  
 339.8597 S: 24 F: 2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5468,0.1,0.00%,F,T)  
 351.9000 S: 24 F: 2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9000,0.1,0.00%,F,T)  
 341.8567 S: 24 F: 2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7904,0.1,0.00%,F,T)



File: 27SE101D5 #1-423 Acq: 28-SEP-2010 01:56:40 GC EI+ Voltage SIR 70SE  
 Sample#24 Text: L7DRA-1-AA : G0I230491-15 Exp: DIOXINRES  
 339.8597 S:24 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5468.0,1.00%,F,T)



341.8567 S:24 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7904.0,1.00%,F,T)

- 1 Peak not found
- 2 poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate nest filters
- 6 Other

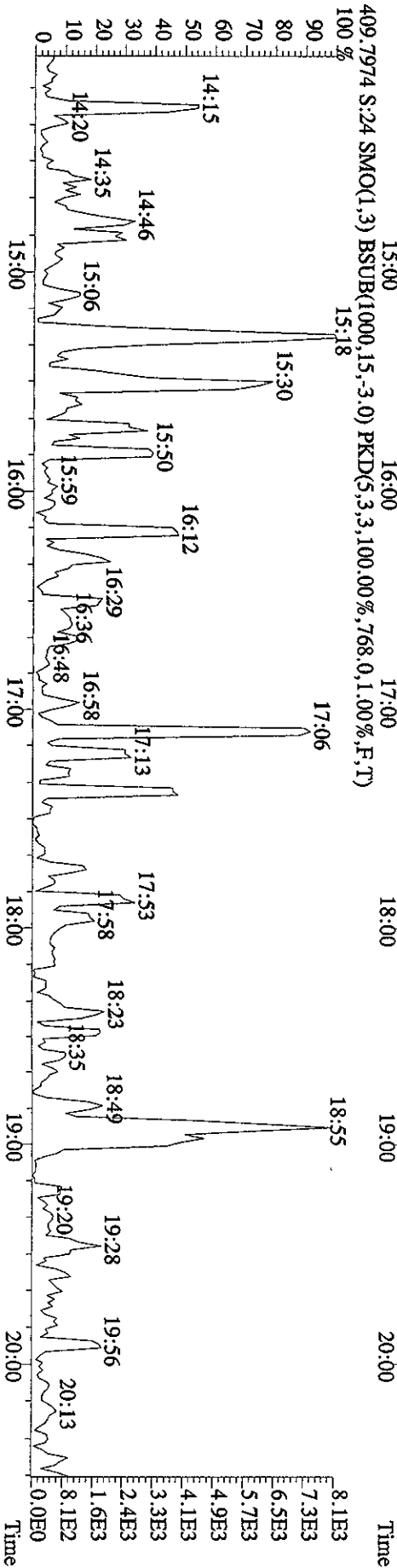
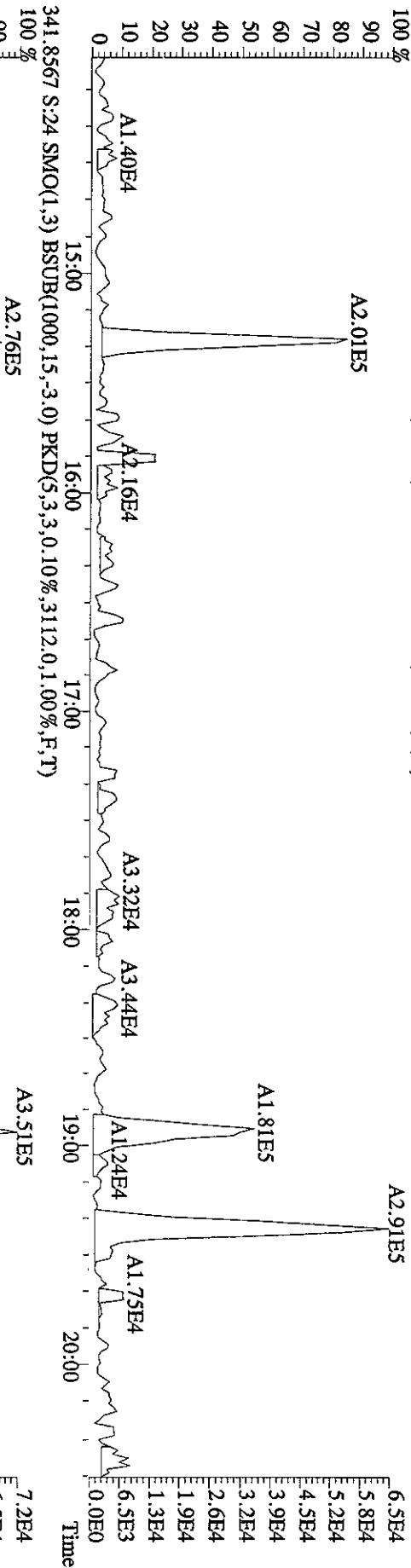
Analyst: dl Date: 09-28-10

7.9E5  
6.3E5  
4.7E5  
3.1E5  
1.6E5  
0.0E0  
Time

5.4E5  
4.3E5  
3.2E5  
2.2E5  
1.1E5  
0.0E0  
Time

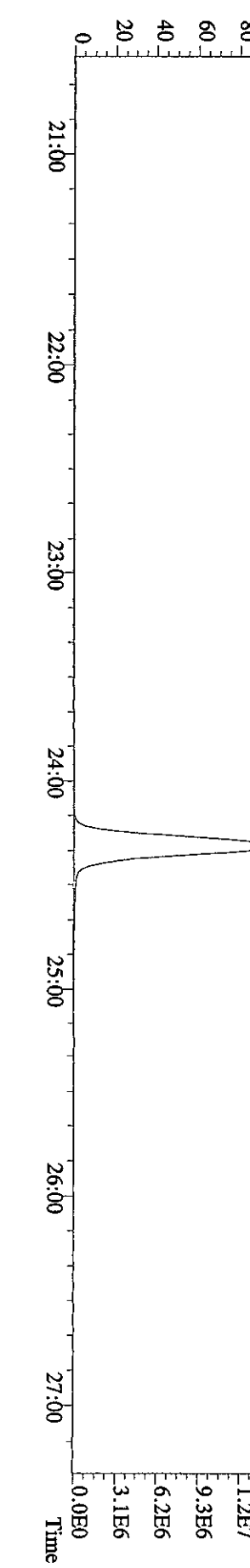
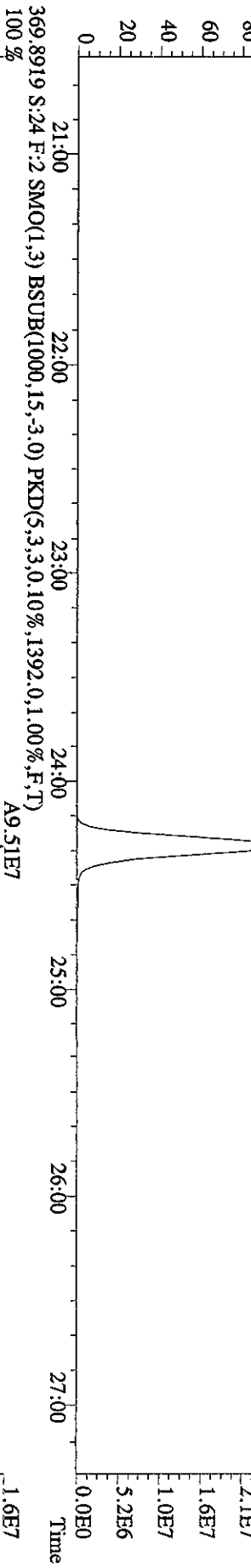
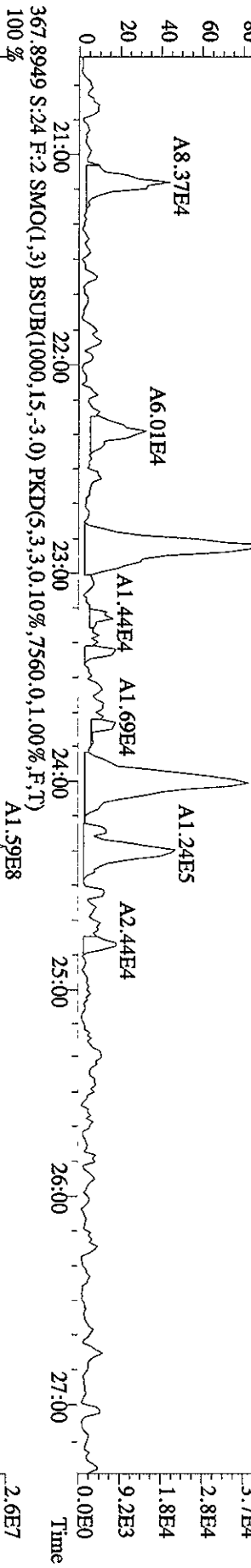
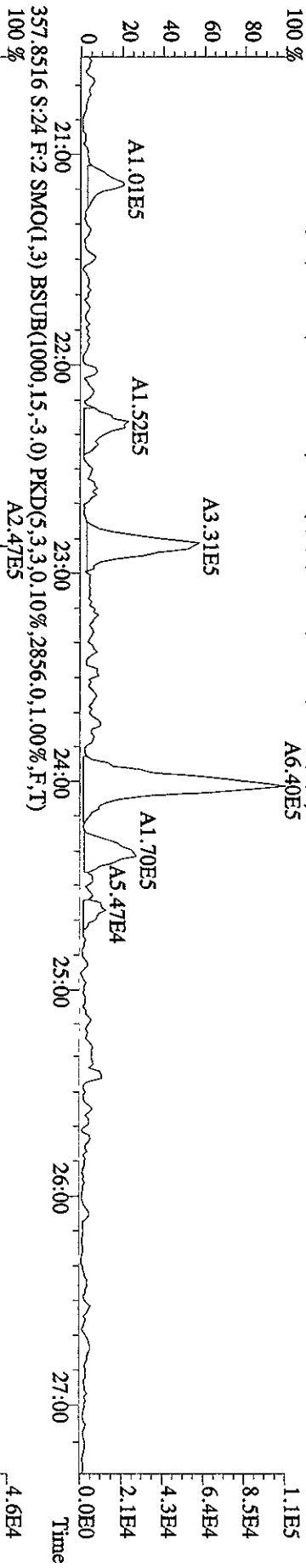
5.0E7  
4.0E7  
3.0E7  
2.0E7  
1.0E7  
0.0E0  
Time

File:27SEI0101D5 #1-382 Acq:28-SEP-2010 01:56:40 GC EI+ Voltage SIR 70SE  
 Sample#24 Text:L7DRA-1-AA :G01230491-15 Exp:DIOXINRES  
 339.8597 S:24 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2940,0,1,00%,F,T)

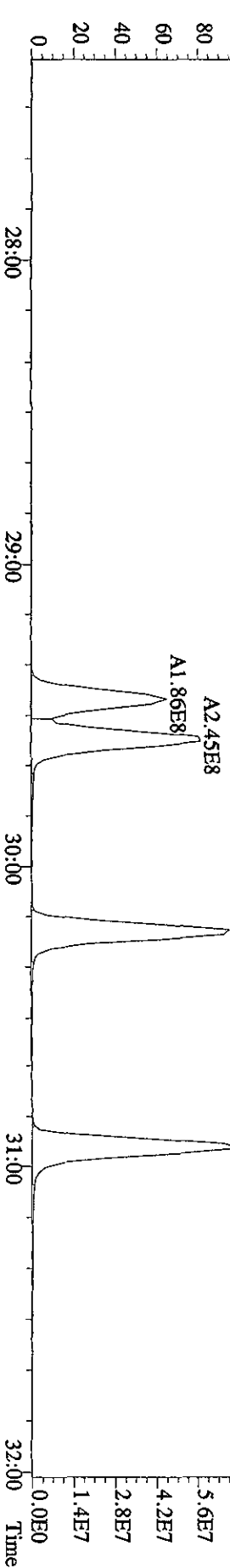
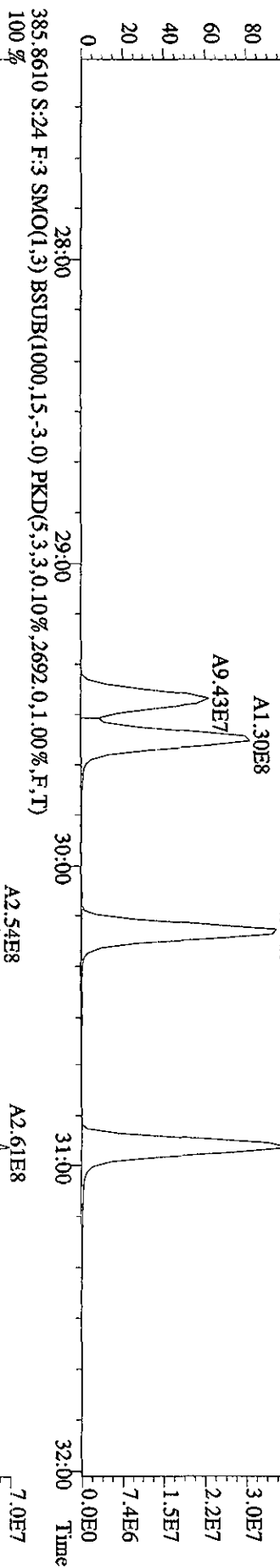
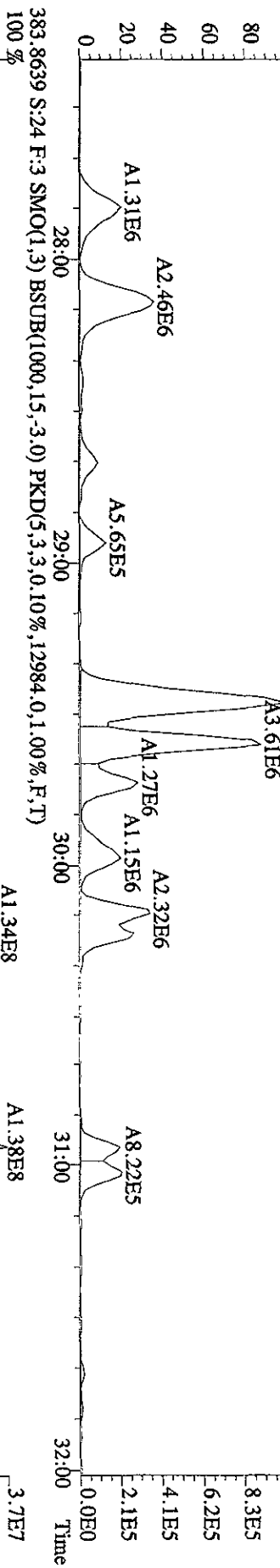
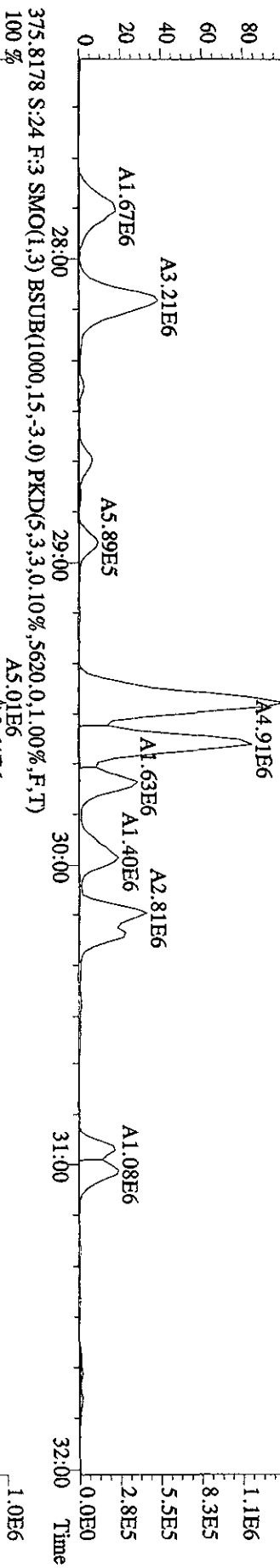




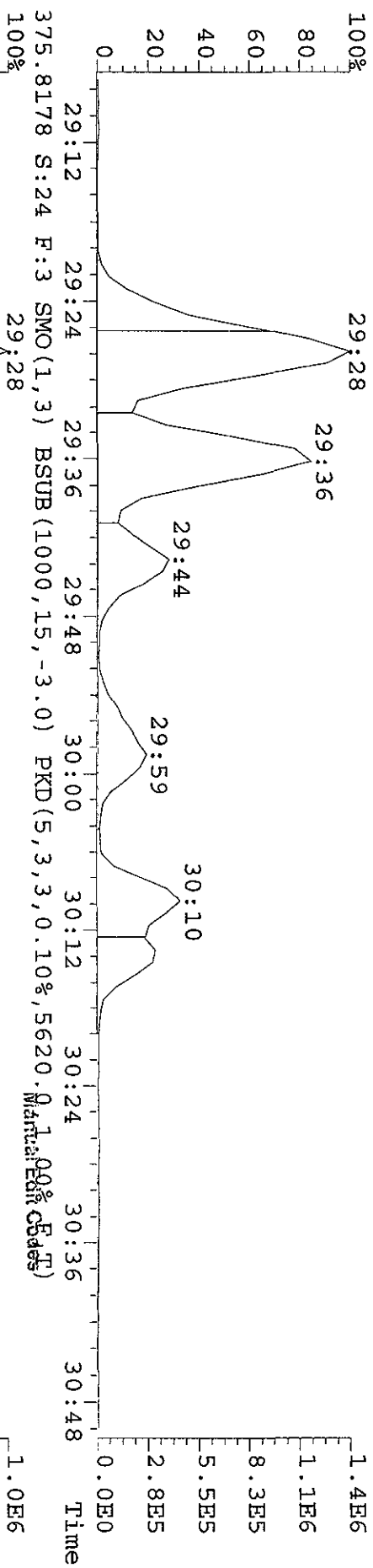
File: 27SE101D5 #1-423 Acq: 28-SEP-2010 01:56:40 GC EI+ Voltage SIR 70SE  
 Sample#24 Text: L7DRA-1-AA : G01230491-15 Exp: DIOXINRES  
 355.8546 S:24 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5640.0,1.00%,F,T)  
 100%



File: 27SE101D5 #1-301 Acq: 28-SEP-2010 01:56:40 GC EI+ Voltage SIR 70SE  
 Sample# 24 Text: L7DRA-1-AA :G01230491-15 Exp: DIOXINRES  
 373.8208 S:24 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6188,0,1,00%,F,T)  
 100%

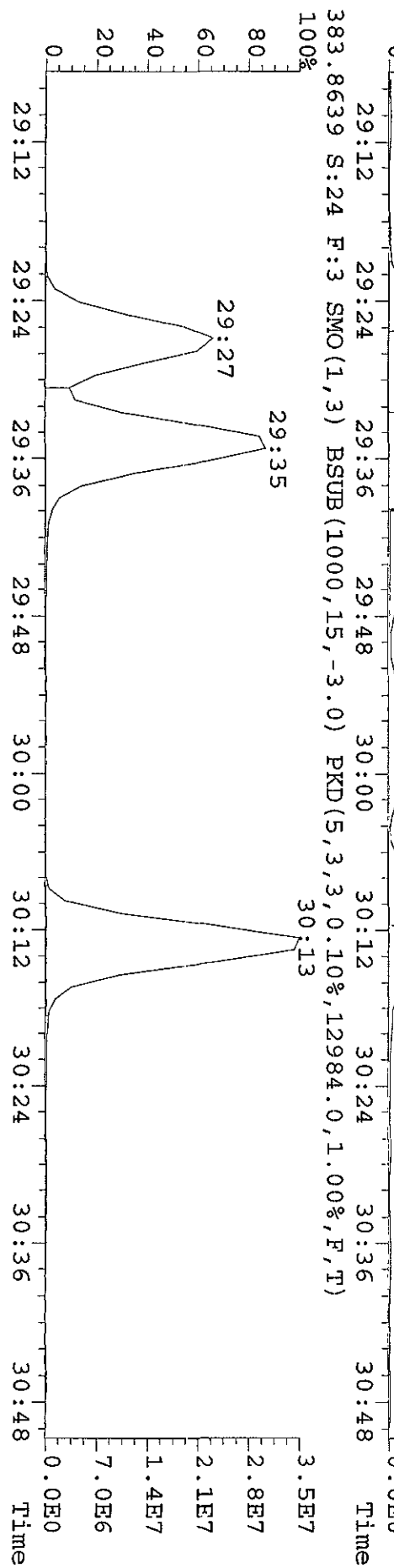


File: 27SE101D5 #1-301 Acq: 28-SEP-2010 01:56:40 GC EI+ Voltage SIR 70SE  
 Sample#24 Text: L7DRA-1-AA : G0I230491-15 Exp: DIOXINRES  
 373.8208 S:24 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6188.0,1.00%,F,T)

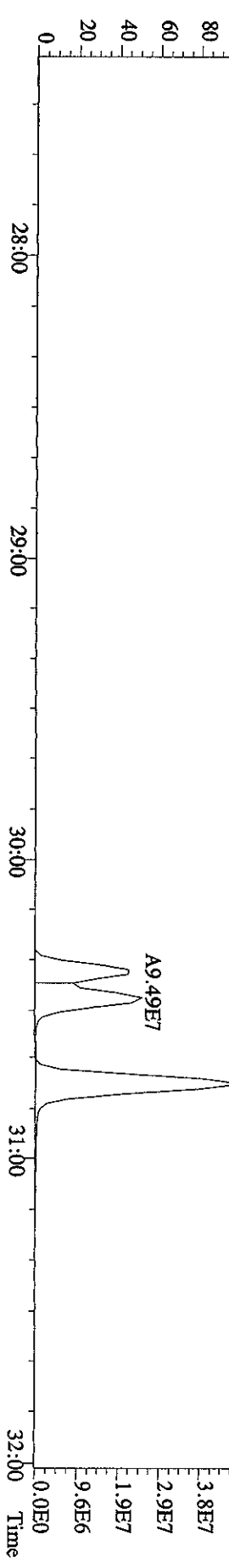
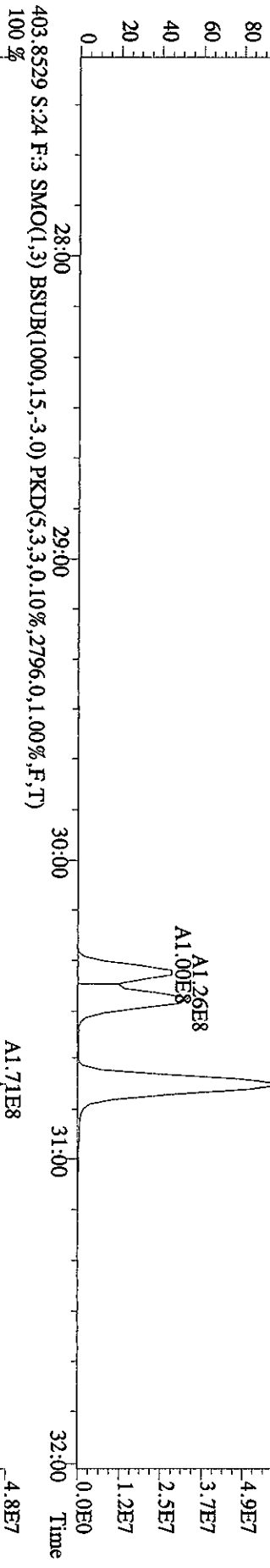
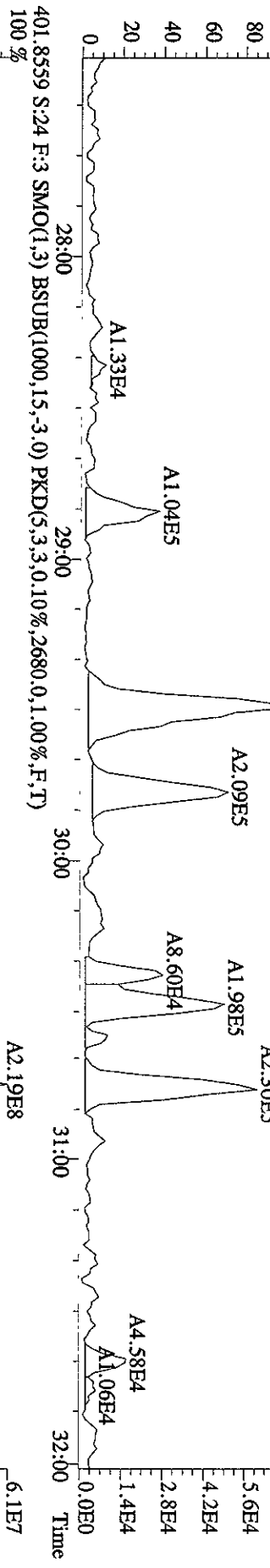
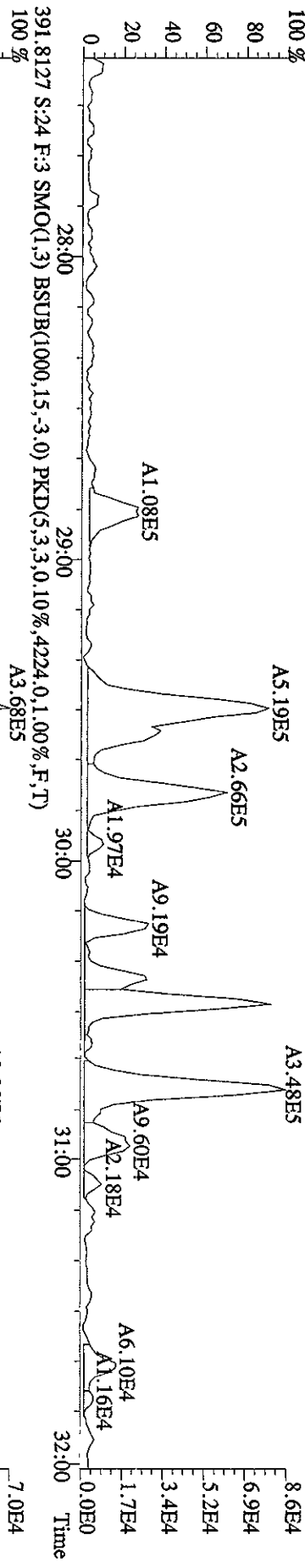


- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5  Separate near eluters
- 6 Other

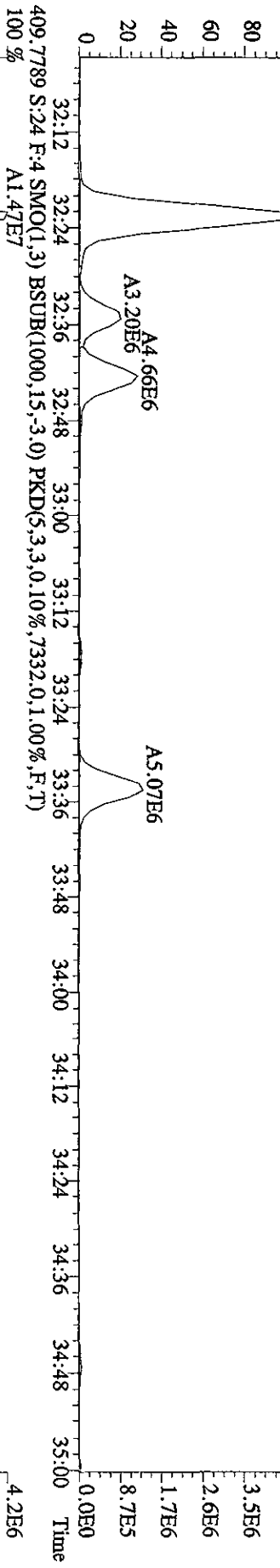
Analyst: CS Date: 09-29



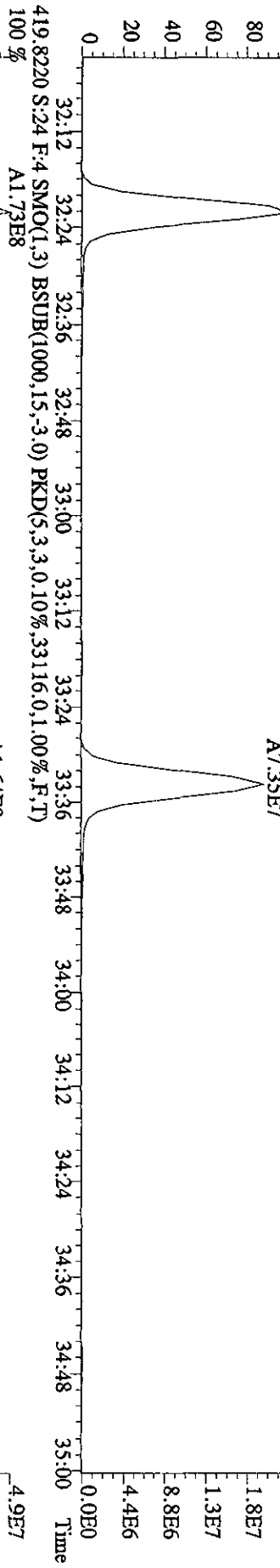
File: 27SE101D5 #1-301 Acq: 28-SEP-2010 01:56:40 GC EI+ Voltage SIR 70SE  
 Sample#24 Text: L7DRA-1-AA :G01230491-15 Exp: DIOXINRES  
 389.8157 S:24 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4164,0.1,0.00%,F,T)



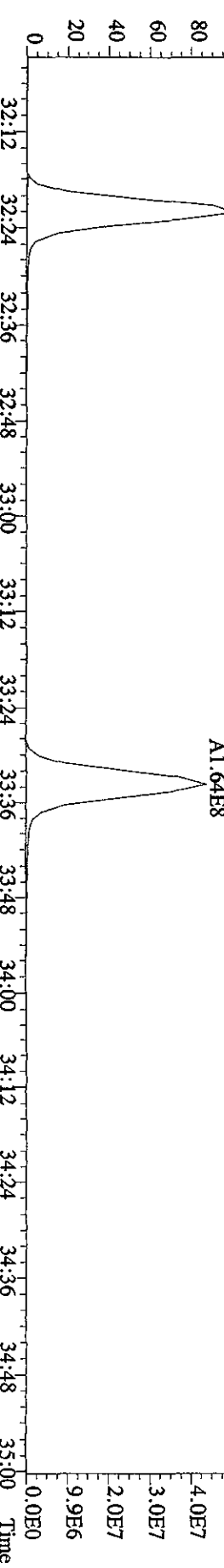
407.7818 S:24 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,15004,0,1,00%,F,T)  
 100%



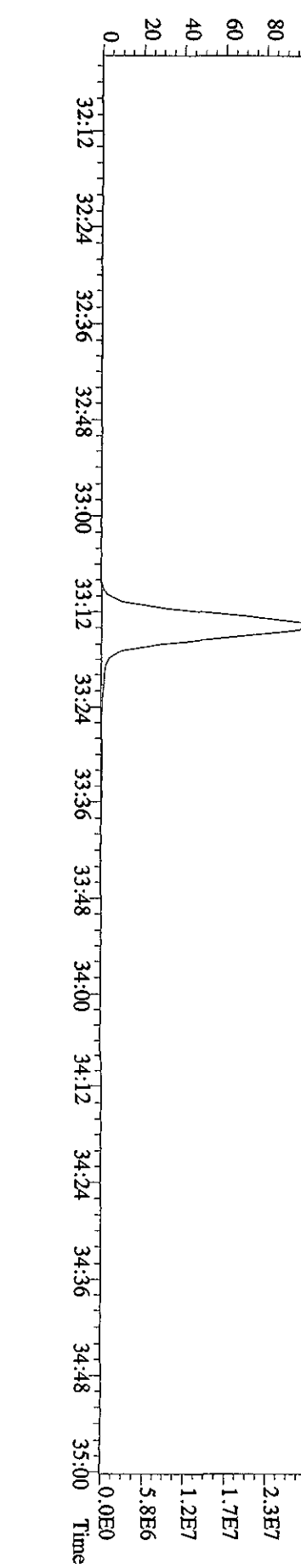
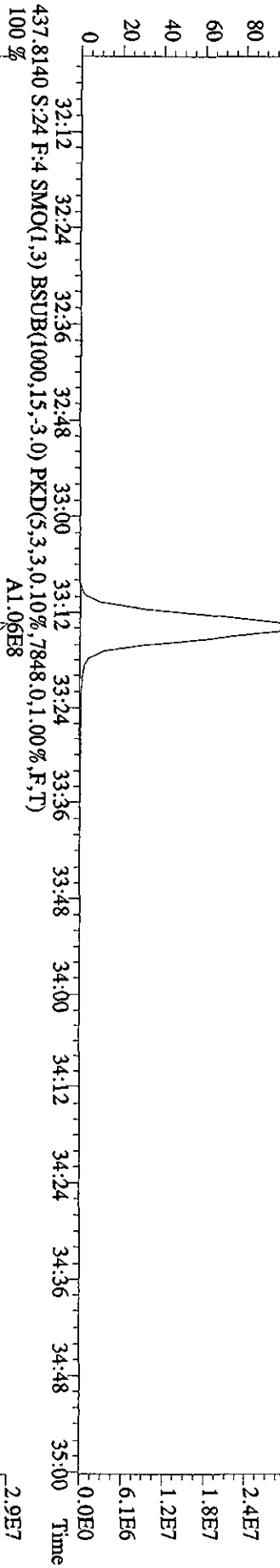
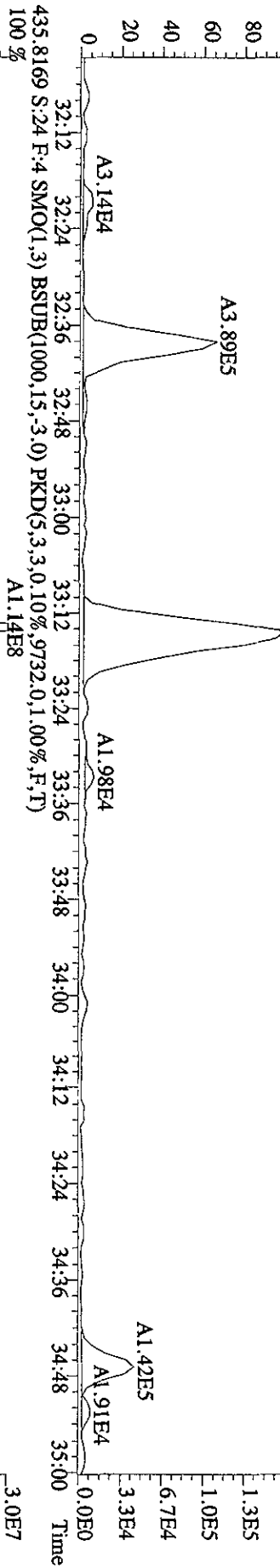
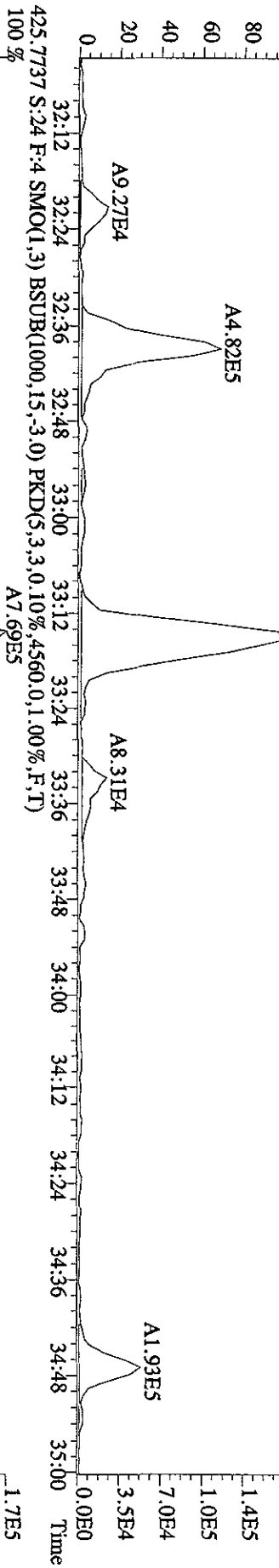
417.8253 S:24 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,24364,0,1,00%,F,T)  
 100%



419.8220 S:24 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,33116,0,1,00%,F,T)  
 100%



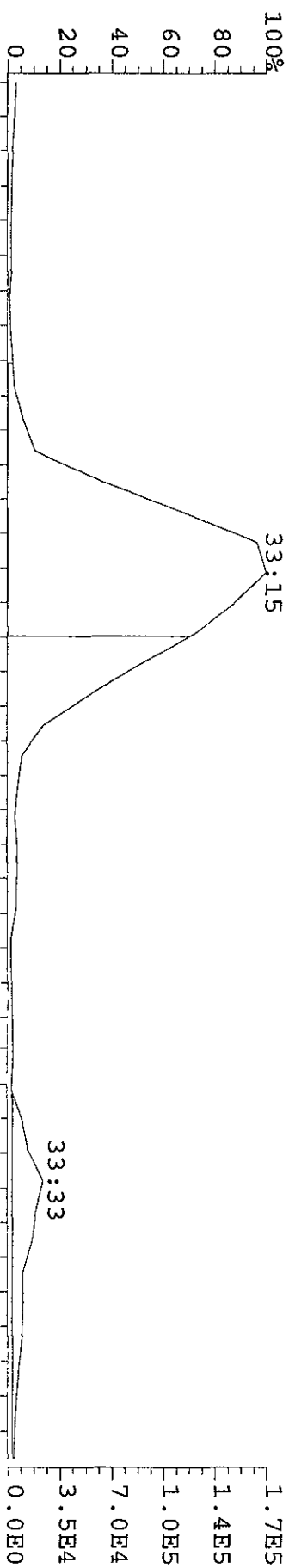
File:27SE101D5 #1-202 Acq:28-SEP-2010 01:56:40 GC EI+ Voltage SIR 70SE  
 Sample#24 Text:L7DRA-1-AA :G01230491-15 Exp:DIOXINES  
 423.7766 S:24 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3072,0.1,00%,F,T)  
 100%



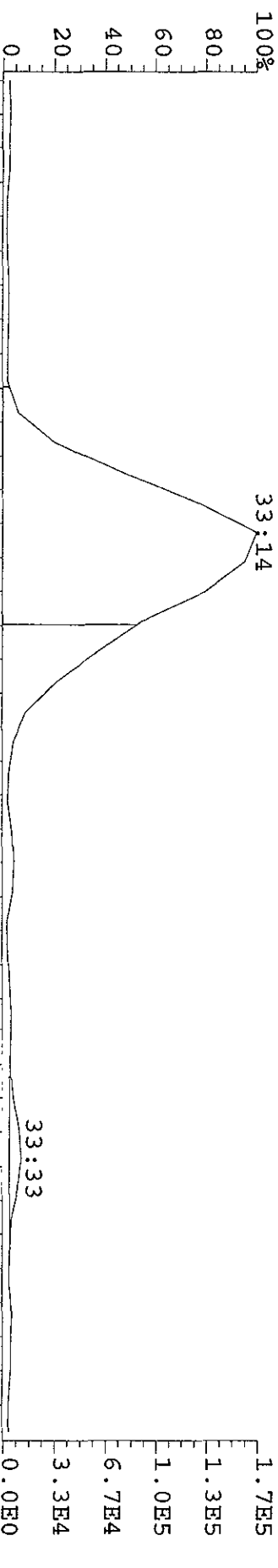
File: 27SEI01D5 #1-202 Acq: 28-SEP-2010 01:56:40 GC FI+ Voltage SIR 70SE

Sample#24 Text: L7DRA-1-AA : G0I230491-15 Exp: DIOXINRES

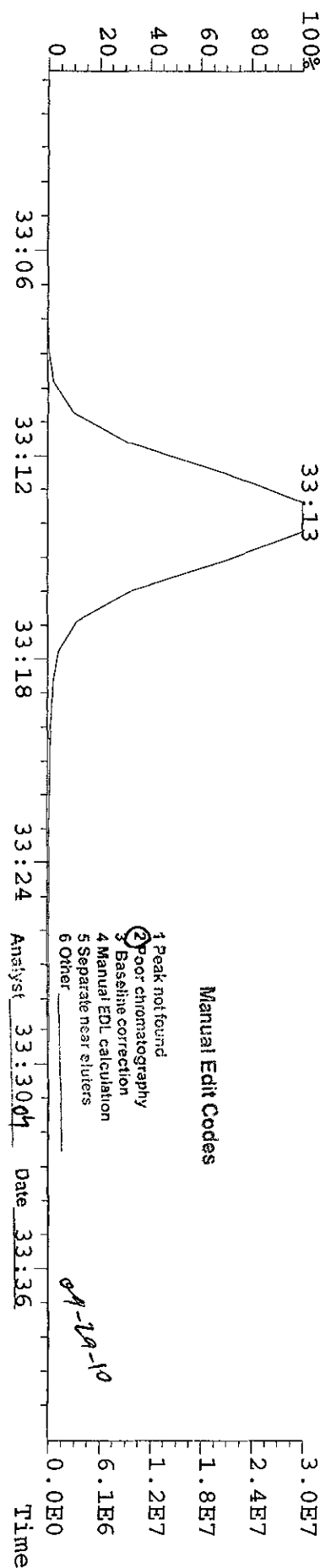
423.7766 S:24 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3072.0,1.00%,F,T)



425.7737 S:24 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4560.0,1.00%,F,T)

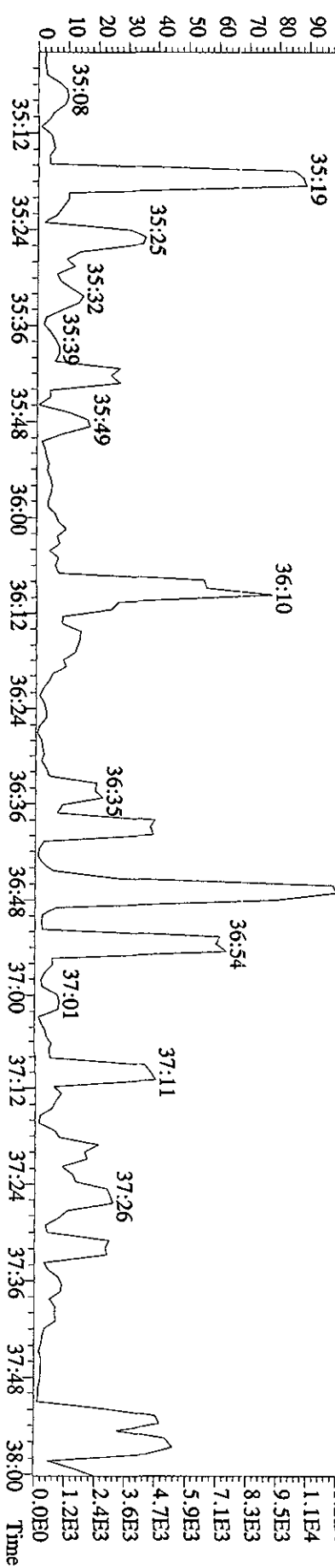
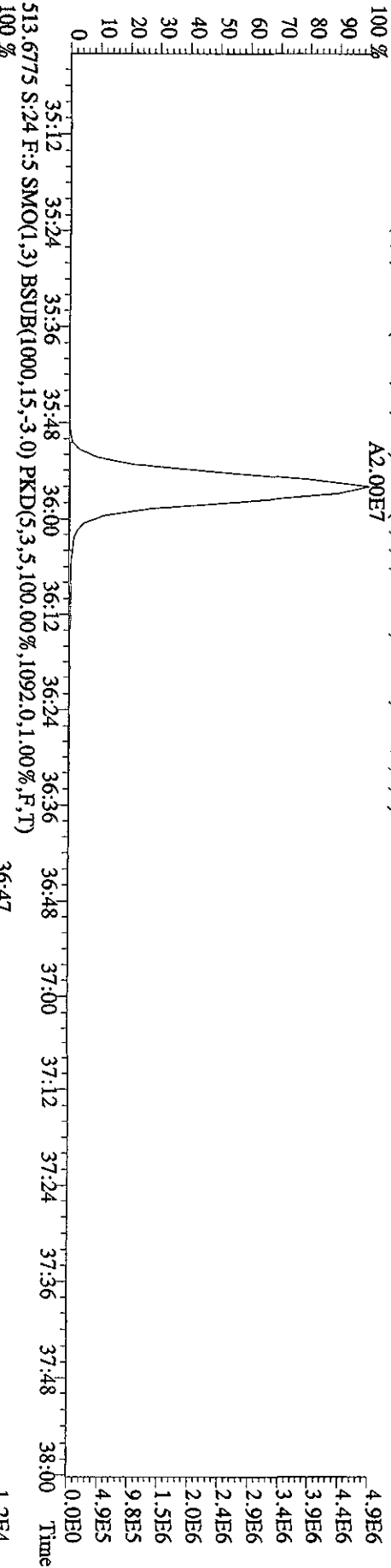
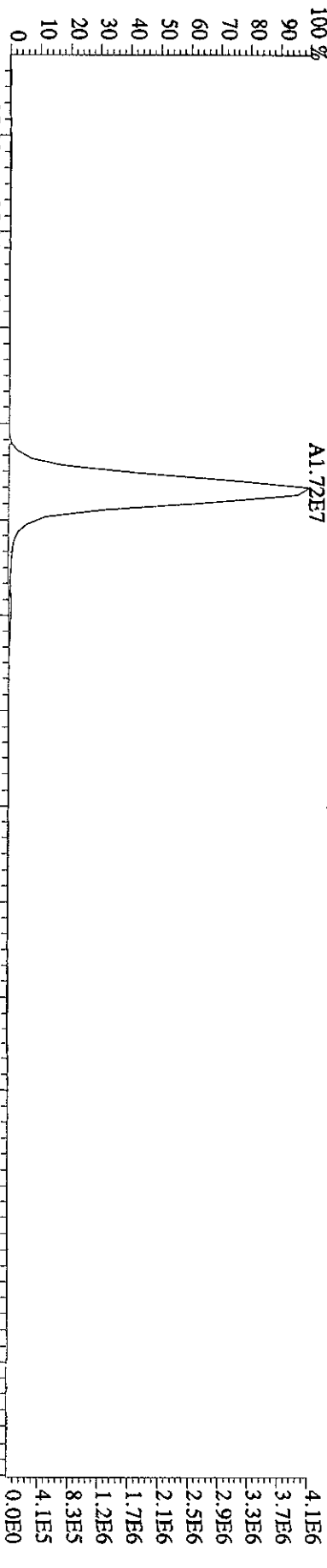


435.8169 S:24 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9732.0,1.00%,F,T)



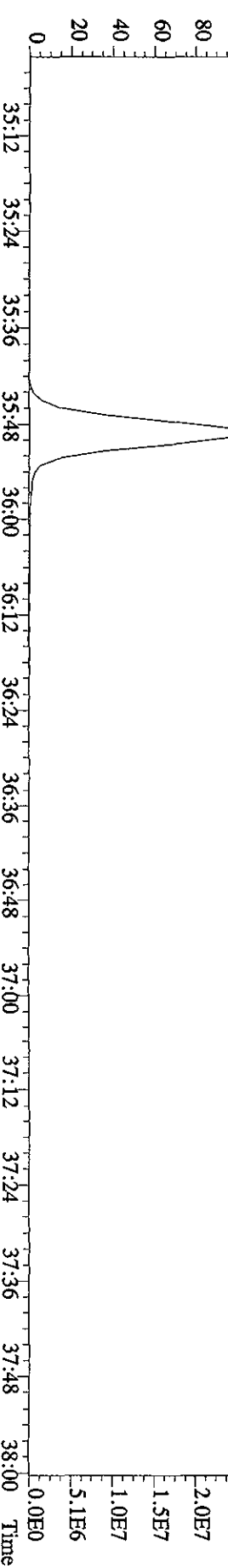
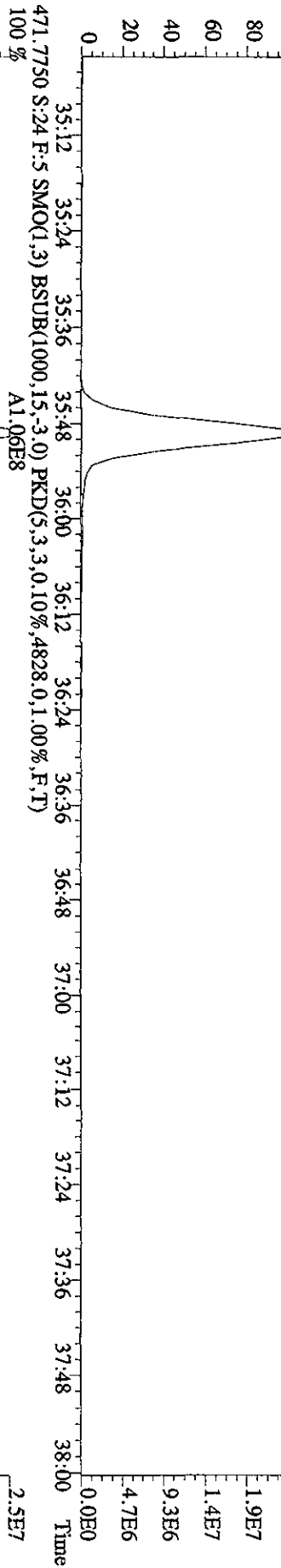
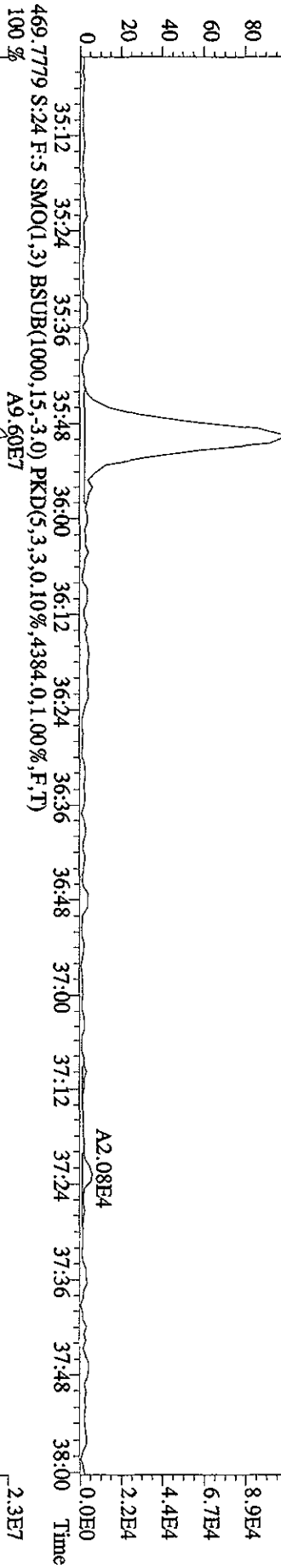
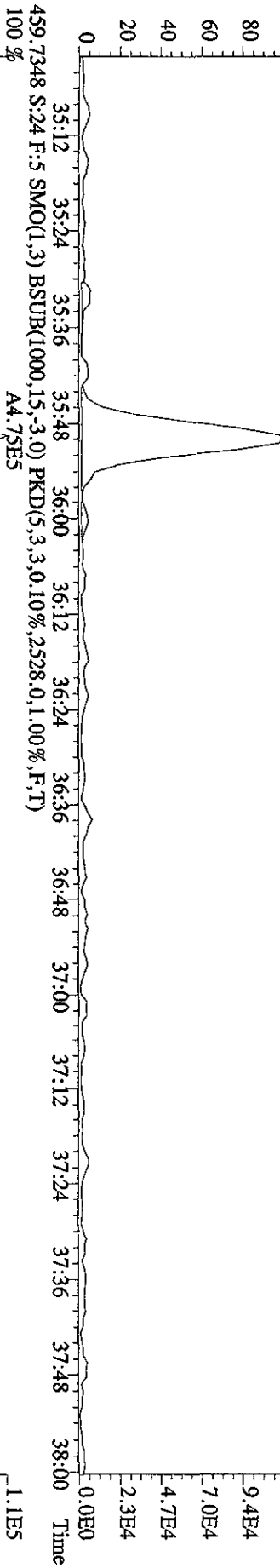
Analyst 33:30d1 Date 33:36

File: 27SE101D5 #1-196 Acq: 28-SEP-2010 01:56:40 GC EI+ Voltage SIR 70SE  
 Sample# 24 Text: L7DRA-1-AA : G01230491-15 Exp: DIOXINRES  
 441.7428 S:24 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4260,0,1,00%,F,T)  
 100%

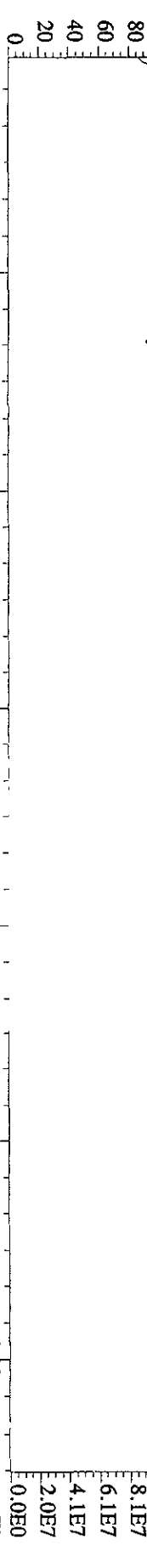




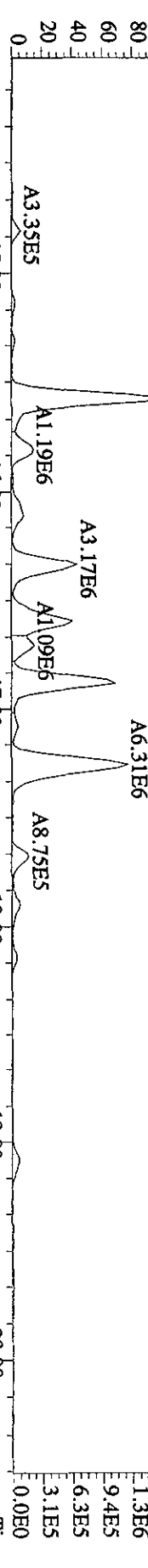
File: 27SE101D5 #1-196 Acq: 28-SEP-2010 01:56:40 GC EI+ Voltage SIR 70SE  
 Sample#24 Text: L7DRA-1-AA :G01230491-15 Exp: DIOXINRES  
 457.7377 S:24 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3316,0.1,1.00%,F,T)  
 100 % A5.37E5



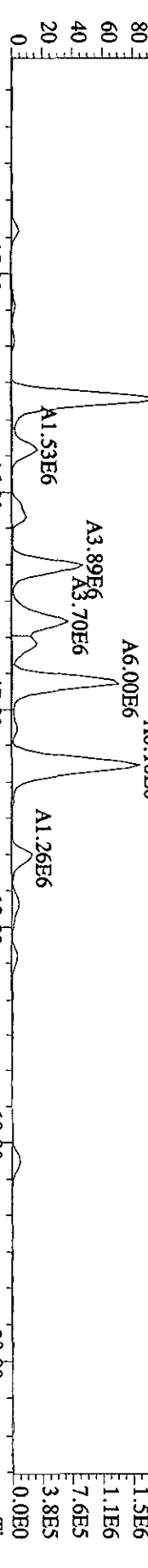
292.9825 S:24 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)  
 100% 14:13 14:34 15:03 15:30 15:55 16:17 16:44 17:06 17:37 18:17 18:37 19:02 19:36 20:08



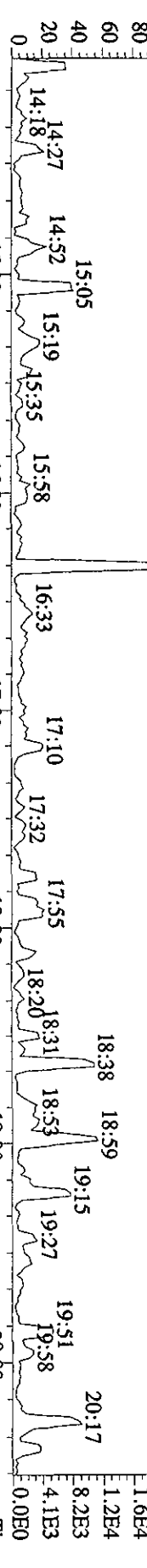
303.9016 S:24 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4228,0.1,00%,F,T)  
 100% 15:00 16:00 17:00 18:00 19:00 20:00



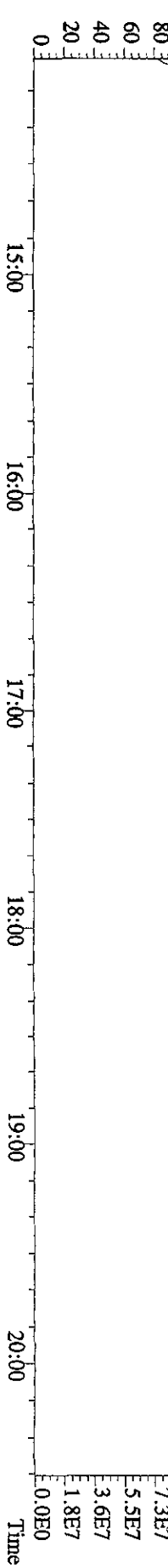
305.8987 S:24 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6148,0.1,00%,F,T)  
 100% 15:00 16:00 17:00 18:00 19:00 20:00

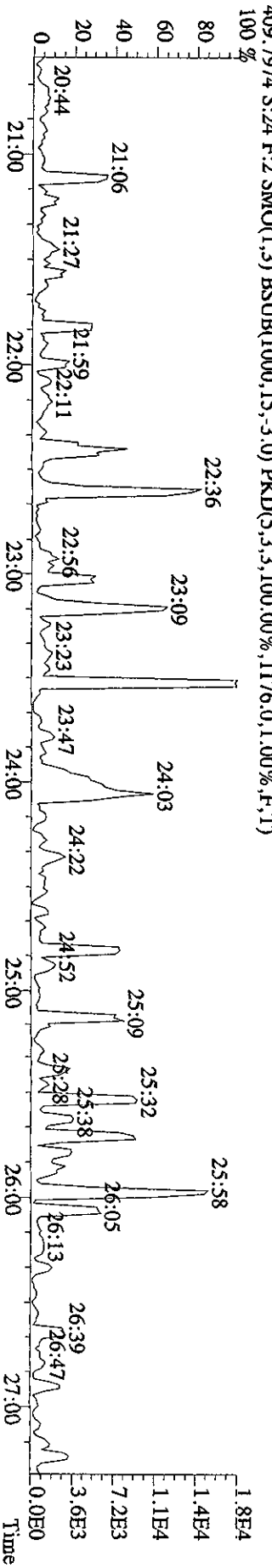
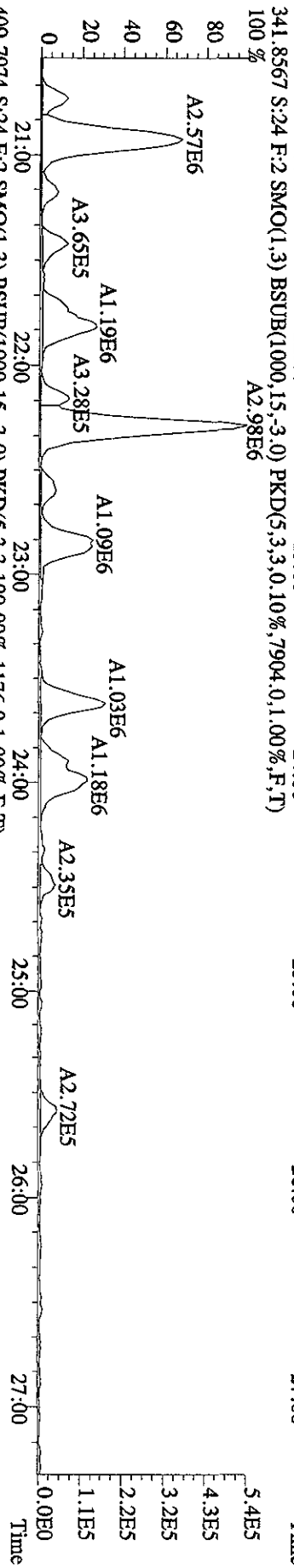
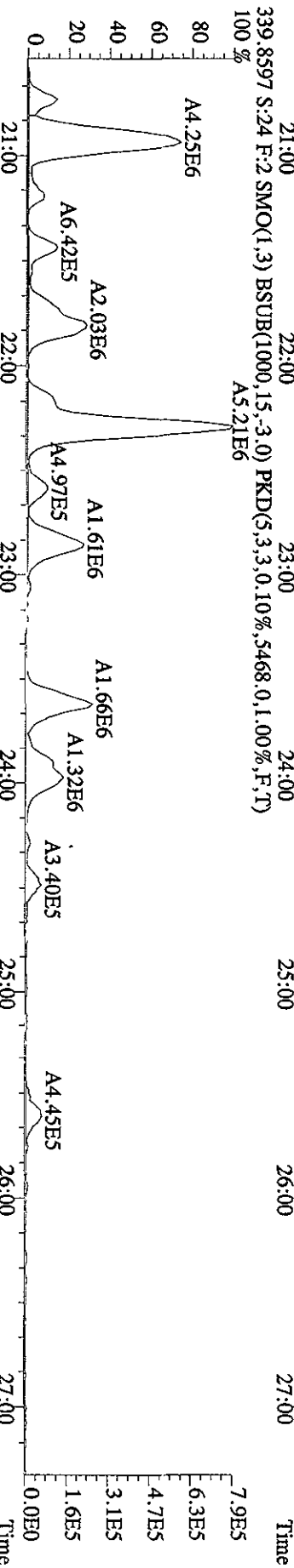
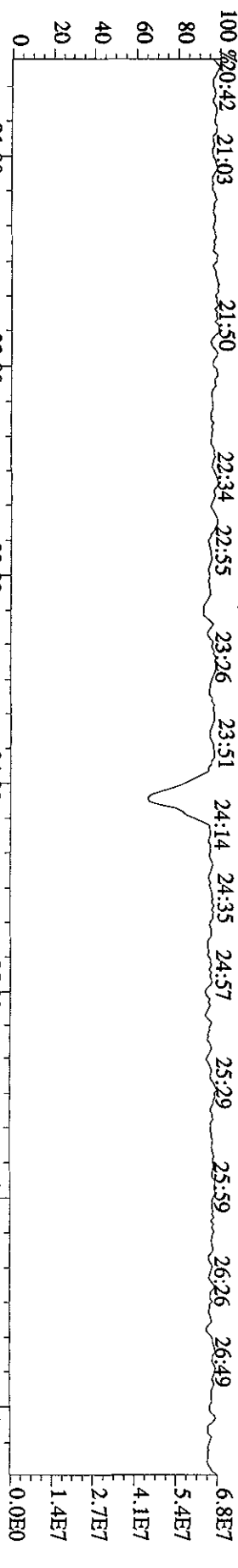


375.8364 S:24 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1300,0.1,00%,F,T)  
 100% 15:00 16:00 17:00 18:00 19:00 20:00



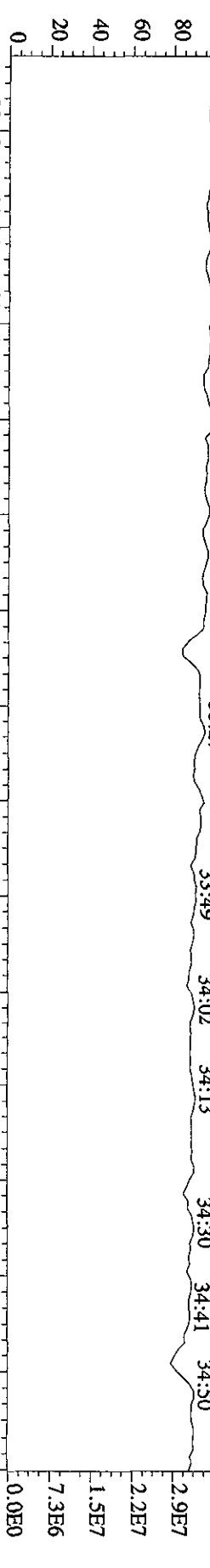
330.9792 S:24 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100% 14:18 14:27 14:52 15:00 15:05 15:19 15:35 15:58 16:00 16:10 16:33 16:49 17:00 17:10 17:32 17:41 17:55 18:00 18:07 18:34 18:38 18:53 18:59 19:00 19:15 19:27 19:36 19:51 19:58 20:00 20:15 20:17



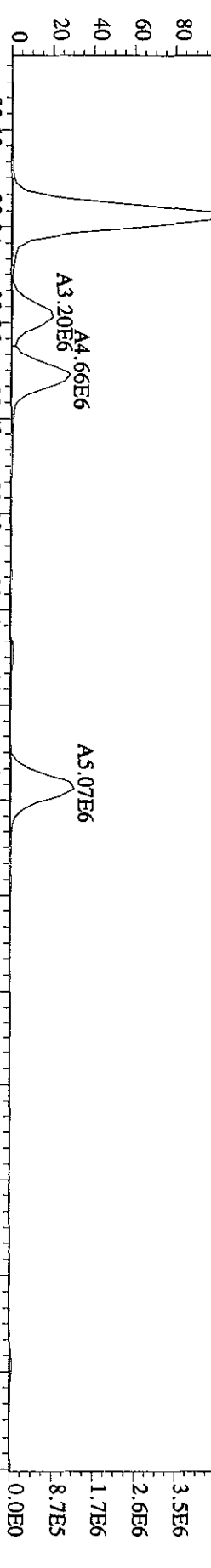




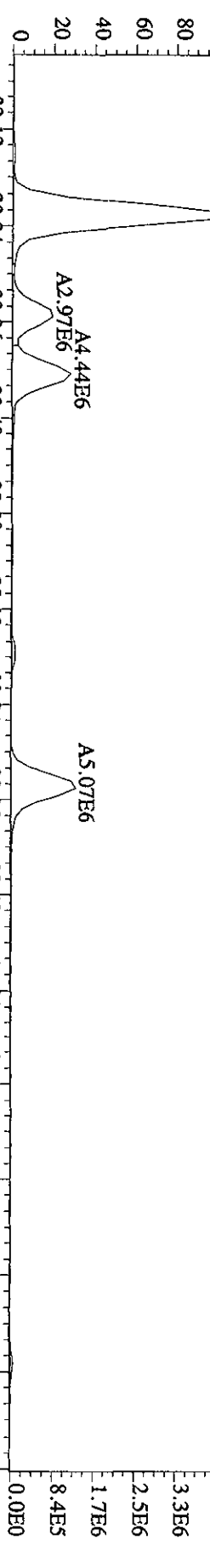
File: 27SE101D5 #1-202 Acq: 28-SEP-2010 01:56:40 GC EI+ Voltage SIR 70SE  
 Sample#24 Text: LIDRA-1-AA :G01230491-15 Exp: DIOXINRES  
 430.9728 S:24 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100% 32:13 32:34 32:48 32:59 33:10 33:27



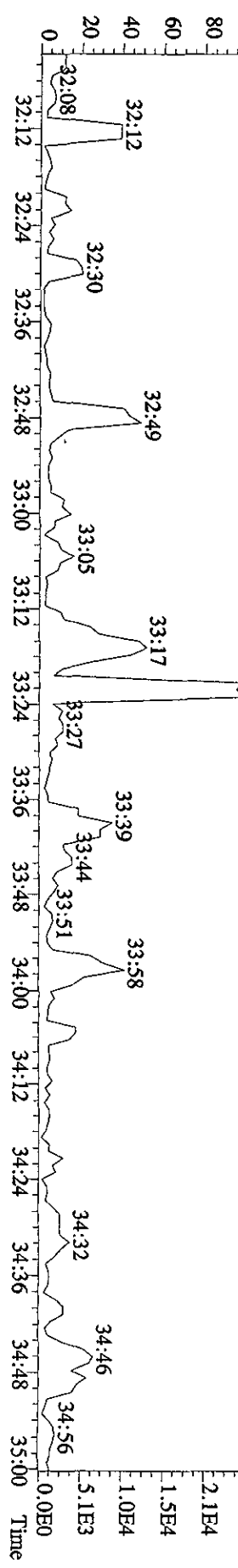
407.7818 S:24 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,15004,0,1.00%,F,T)  
 100% A1.55E7  
 32:12 32:24 32:36 32:48 33:00 33:12 33:24 33:36 33:48 34:00 34:12 34:24 34:36 34:48 35:00  
 4.4E6 3.5E6 2.6E6 1.7E6 8.7E5 0.0E0



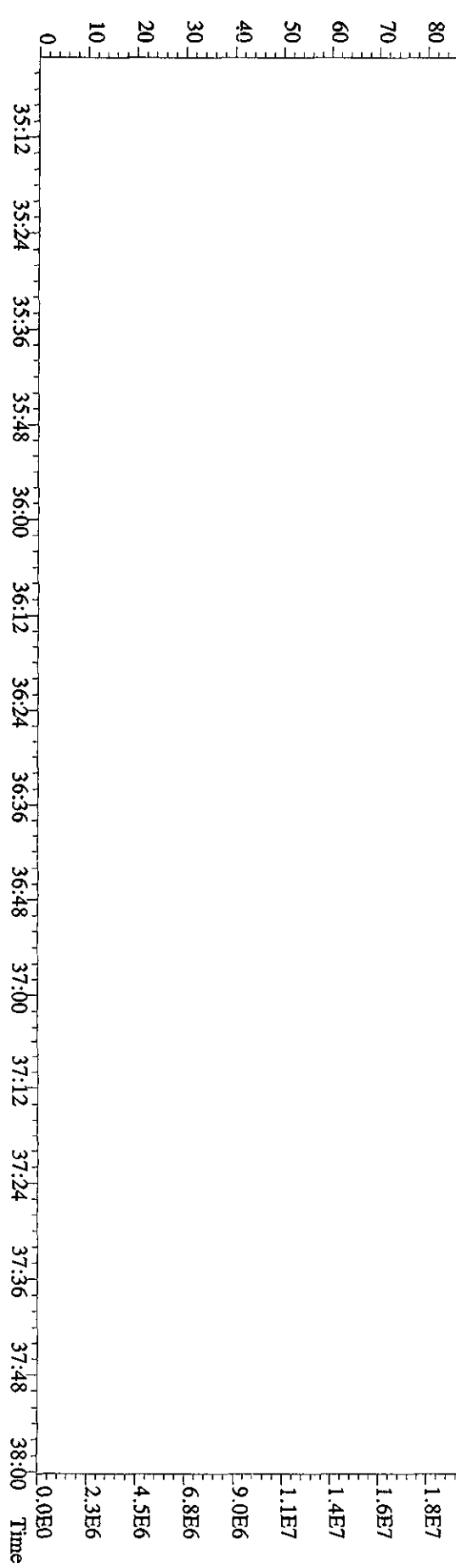
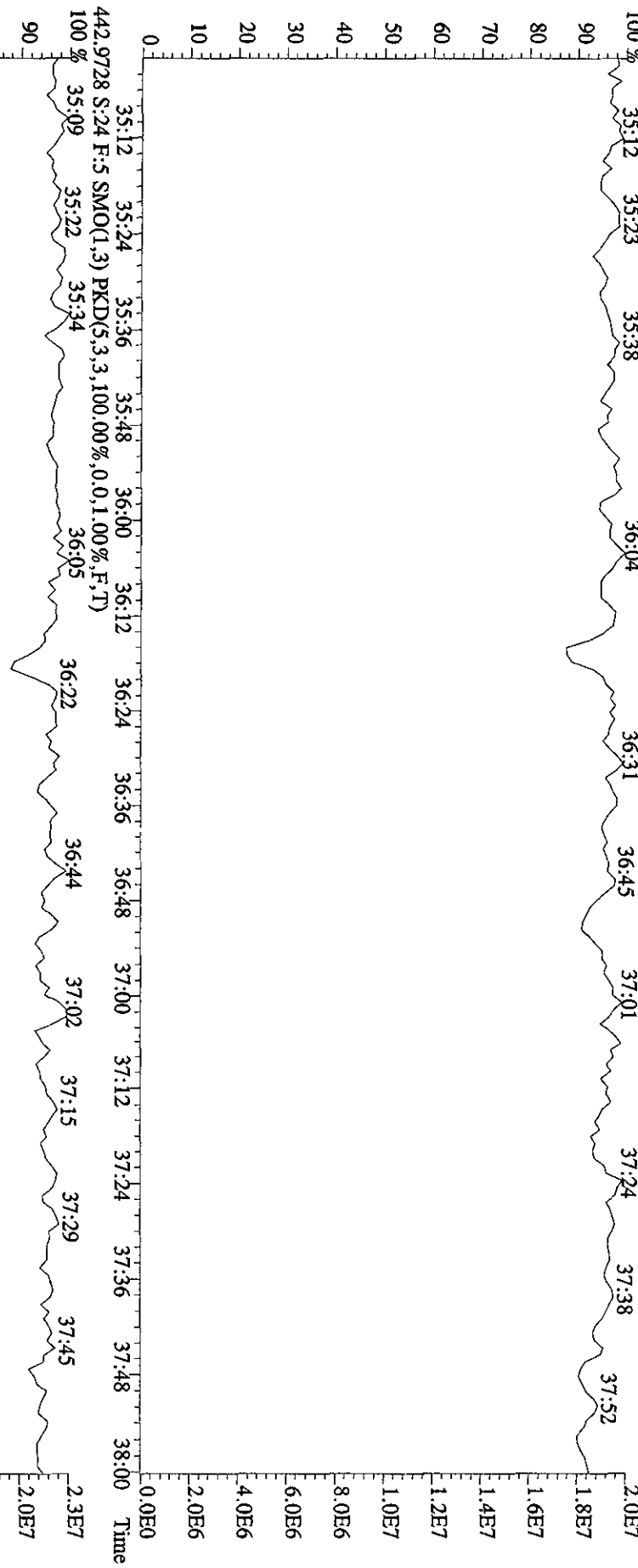
409.7789 S:24 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7332,0,1.00%,F,T)  
 100% A1.47E7  
 32:12 32:24 32:36 32:48 33:00 33:12 33:24 33:36 33:48 34:00 34:12 34:24 34:36 34:48 35:00  
 4.2E6 3.3E6 2.5E6 1.7E6 8.4E5 0.0E0



479.7165 S:24 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1676,0,1.00%,F,T)  
 100%  
 32:12 32:24 32:36 32:48 33:00 33:12 33:24 33:36 33:48 34:00 34:12 34:24 34:36 34:48 35:00  
 2.6E4 2.1E4 1.5E4 1.0E4 5.1E3 0.0E0



File: 27SEI01D5 #1-196 Acq: 28-SEP-2010 01:56:40 GC EI+ Voltage SIR 70SE  
 Sample#24 Text: L7DRA-1-AA : G01230491-15 Exp: DIOXINRES  
 454.9728 S:24 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

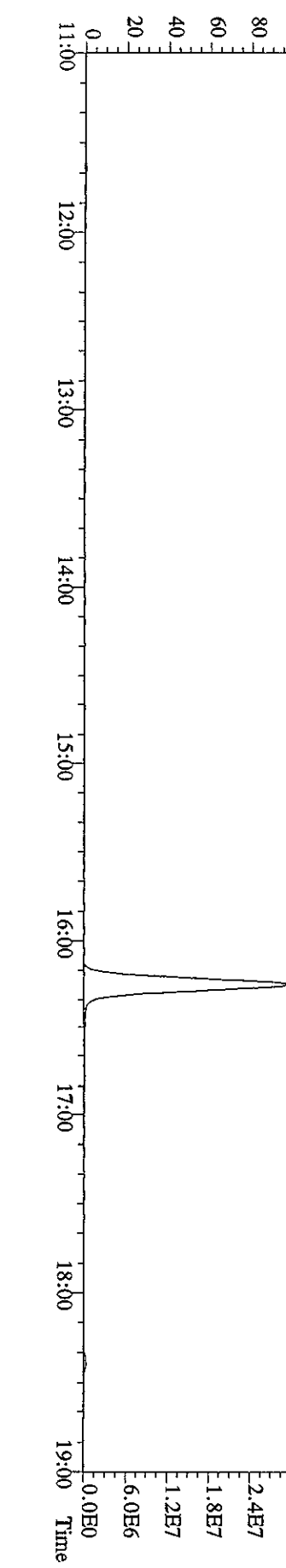
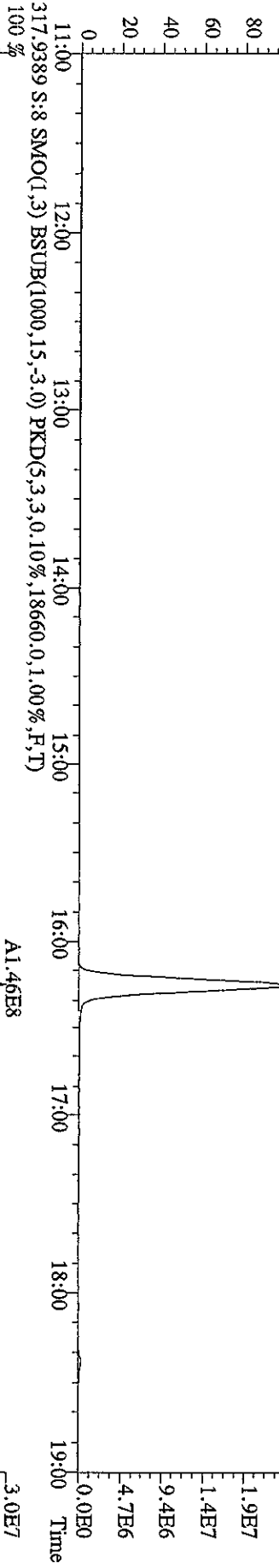
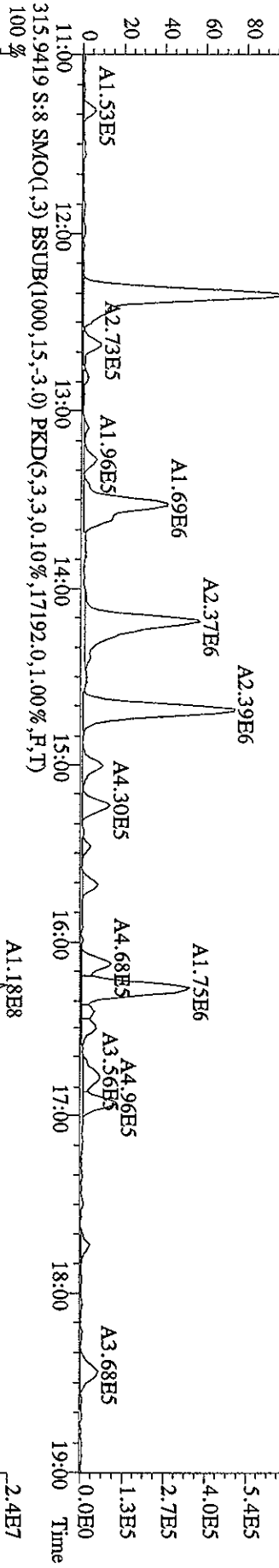
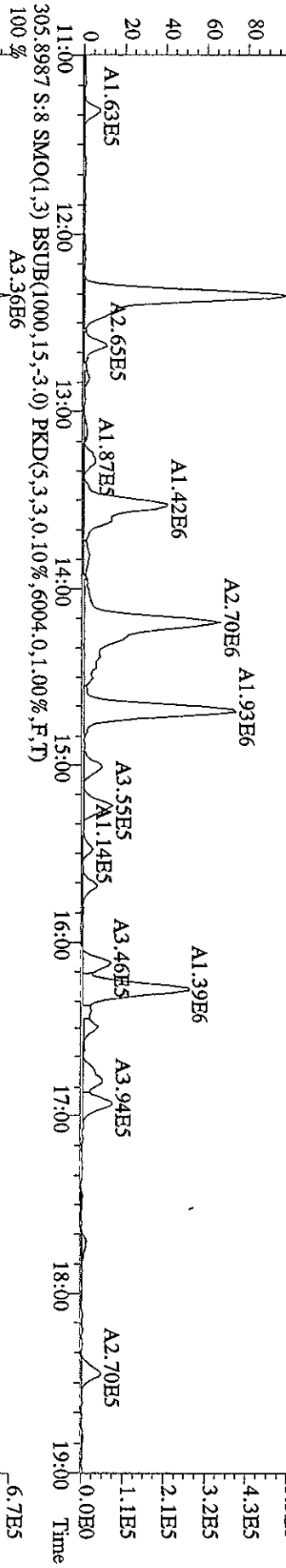


Run text: L7DRA-1-AA Sample text: L7DRA-1-AA :G0I230491-15  
 Run #10 Filename: 29SE105D2 S: 8 I: 1 Results: 29SE105D2DB225AIR  
 Acquired: 29-SEP-10 13:19:33 Processed: 29-SEP-10 13:56:52  
 Run: 29SE105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2R  
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	150807600	0.80 y	15:02	-	255.390	-	-	n
13C-2,3,7,8-TCDF	263274680	0.81 y	16:15	2.11	3307.385	6.277	82.7	n
2,3,7,8-TCDF	3139942	0.80 y	16:16	1.06	45.170	2.160	-	n
13C-2,3,7,8-TCDD	122892116	0.81 y	14:44	0.88	3684.310	11.103	92.1	n
2,3,7,8-TCDD	*	* n	NotFnd	1.64	*	2.995	-	n
37Cl-2,3,7,8-TCDD	78647776	1.00 y	14:45	1.46	1755.570	5.628	109.7	n

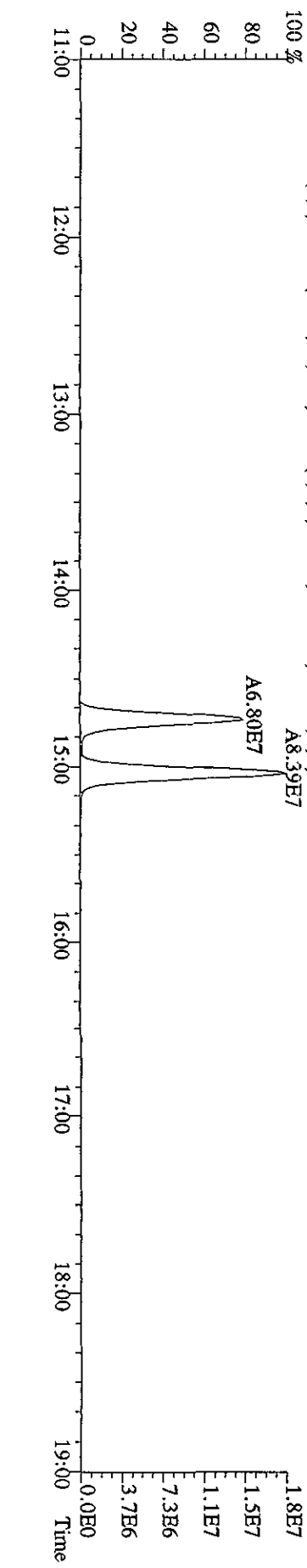
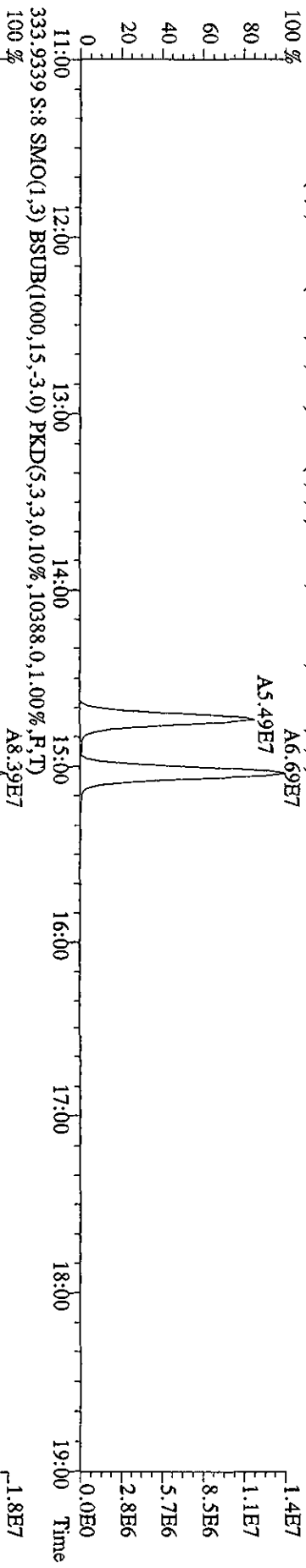
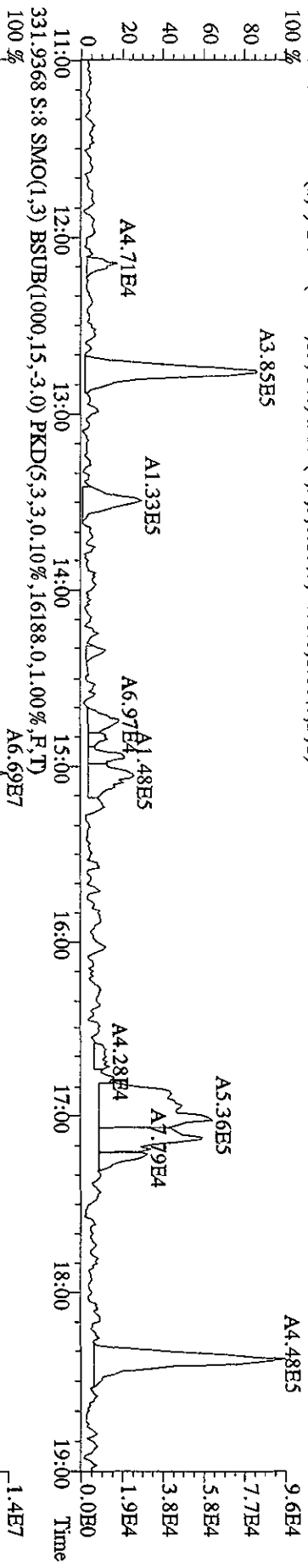
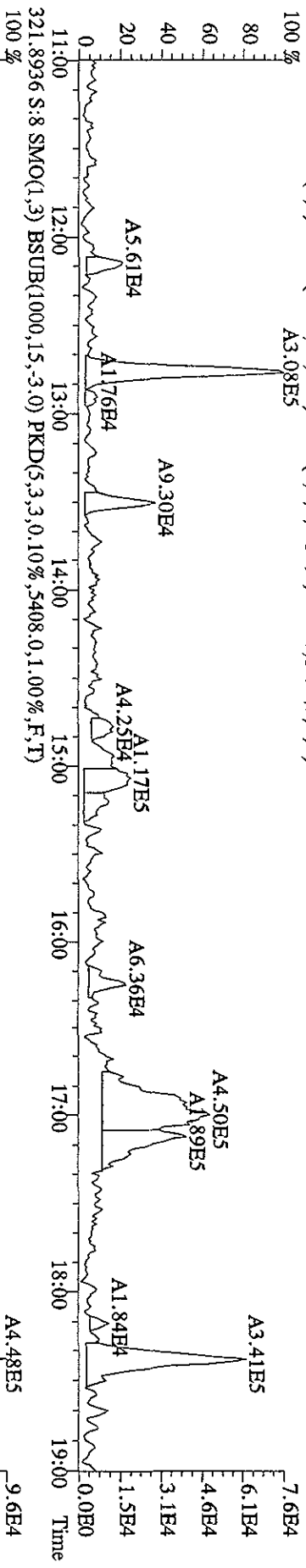
*05*  
*09-30-10*

File: 29SE105D2 #1-1242 Acq: 29-SEP-2010 13:19:33 GC BI+ Voltage SIR 70SE  
 Sample#8 Text: L7DRA-1-AA : G01230491-15 Exp: DB225RES  
 303.9016 S: 8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4132.0,1.00%,F,T)  
 100% A2.71E6

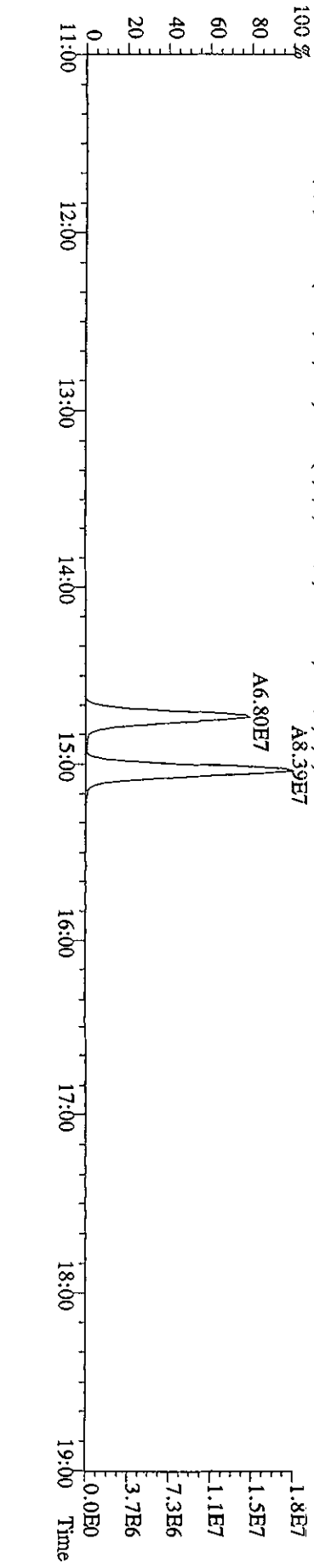
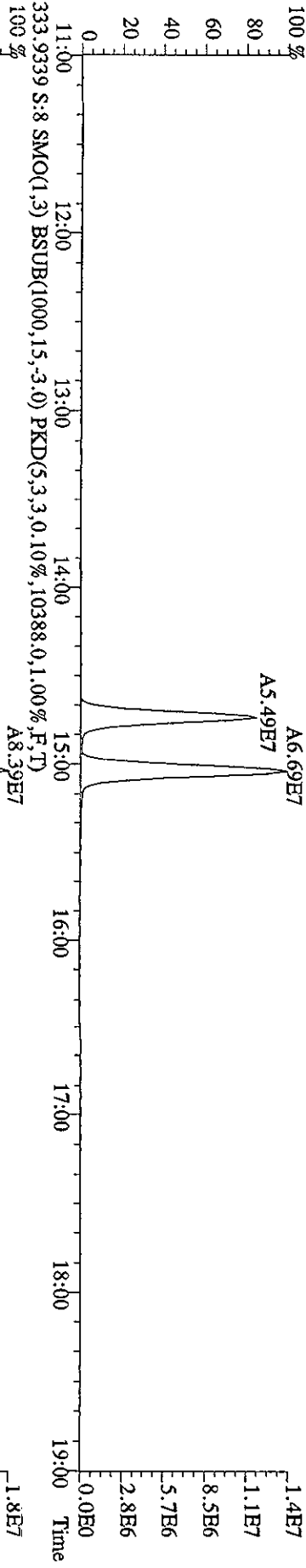
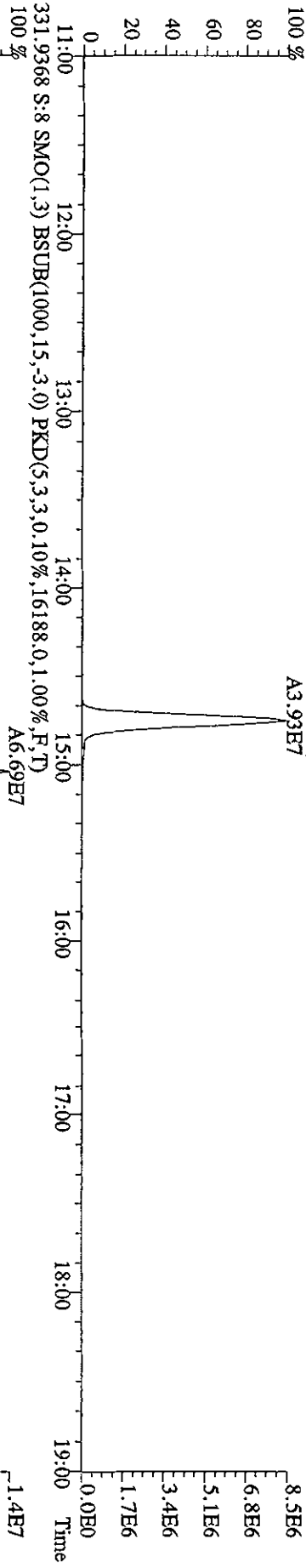
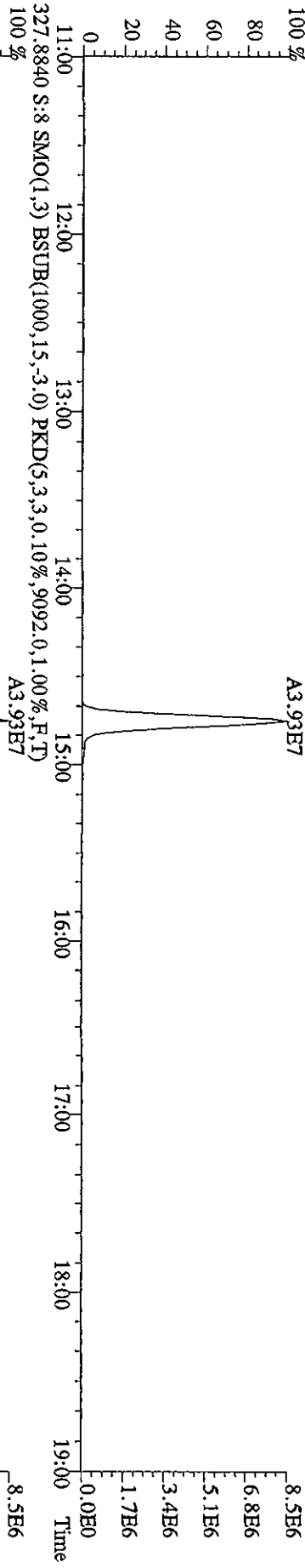




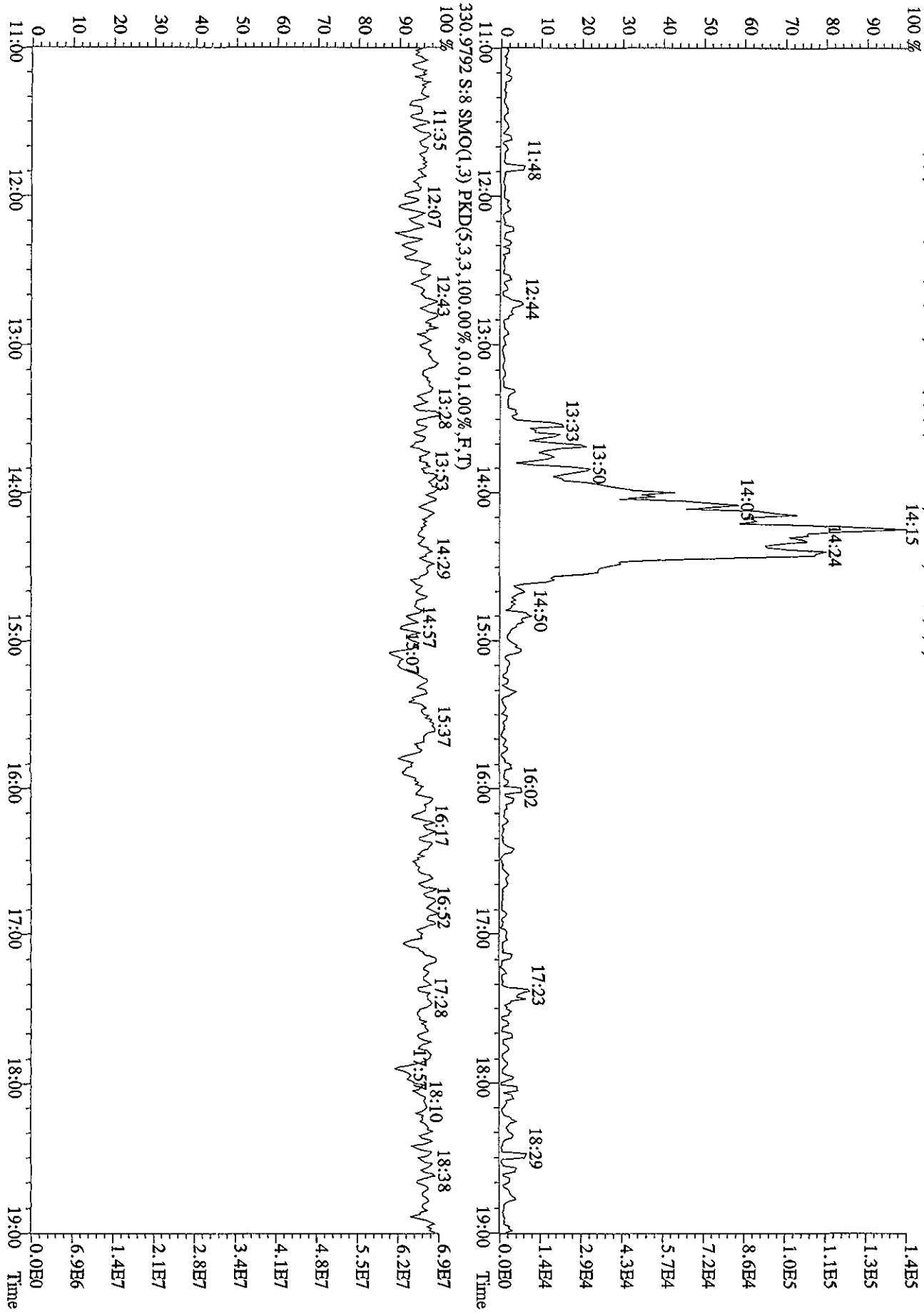
File: 29SE105D2 #1-1242 Acq: 29-SEP-2010 13:19:33 GC EI+ Voltage SIR 70SE  
 Sample#8 Text: L7DRA-1-AA : G01230491-15 Exp: DB225RBS  
 319.8965 S: 8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5448.0,1.00%,F,T)  
 100%



File: 29SE105D2 #1-1242 Acq: 29-SEP-2010 13:19:33 GC EI+ Voltage SIR 70SE  
 Sample#8 Text: L7DRA-1-AA :G01230491-15 Exp: DB25RES  
 327.8840 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9092.0,1.00%,F,T) A3.93E7



File: 29SBE105D2 #1-1242 Acq: 29-SEP-2010 13:19:33 GC EI+ Voltage SIR 70SE  
 Sample#8 Text: L7DRA-1-AA : G01230491-15 Exp: DB225RES  
 375.8364 S: 8 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,1820,0,1.00%,F,T)  
 100%



Run text: L7DRF-1-AA Sample text: L7DRF-1-AA :G0I230491-17  
 Run #15 Filename: 27SE101D5 S: 25 I: 1 Results: 27se101d5to9os  
 Acquired: 28-SEP-10 02:39:37 Processed: 28-SEP-10 09:22:59  
 Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5  
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 Sample

05  
09-29-10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	366008000	0.79 y	17:43	-	209.486	-	-	n
13C-2,3,7,8-TCDF	492018000	0.81 y	17:12	1.56	3440.110	2.131	86.0	n
2,3,7,8-TCDF	198323	0.52 n	17:13	0.98	1.639 J,R	0.835	-	n
Total TCDF	673900	1.02 n	15:32	0.98	<del>5.569</del> 4.01	0.835	-	n
13C-2,3,7,8-TCDD	285722000	0.79 y	17:55	0.92	3390.826	3.001	84.8	n
2,3,7,8-TCDD	*	* n	NotFnd	1.03	*	1.163	-	n
Total TCDD	177918	1.04 n	15:18	1.03	<del>2.414</del>	1.163	-	n
37Cl-2,3,7,8-TCDD	152055800	1.00 y	17:56	1.23	1735.932	2.097	108.5	n
13C-1,2,3,7,8-PeCDF	370840000	1.65 y	22:15	1.05	3850.439	1.627	96.3	n
1,2,3,7,8-PeCDF	161658	1.41 y	22:17	1.09	1.597 J	1.279	-	n
2,3,4,7,8-PeCDF	*	* n	NotFnd	1.02	*	1.373	-	n
Total F2 PeCDF	875857	0.96 n	20:54	1.05	<del>8.899</del> 8.64	1.324	-	n
Total F1 PeCDF	730036	0.72 n	15:17	1.05	<del>7.465</del>	<del>1.006</del>	-	n
13C-1,2,3,7,8-PeCDD	205837000	1.62 y	24:17	0.56	4010.824	2.380	100.3	n
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.07	*	1.642	-	n
Total PeCDD	734416	1.93 n	21:27	1.07	<del>13.334</del>	<del>1.642</del> 8.30	-	n
13C-1,2,3,7,8,9-HxCDD	305693000	1.29 y	30:45	-	186.273	-	-	n
13C-1,2,3,4,7,8-HxCDF	260588900	0.53 y	29:27	0.99	3441.318	10.301	86.0	n
1,2,3,4,7,8-HxCDF	243260	0.84 n	29:27	1.26	2.961 J,R	1.369	-	n
1,2,3,6,7,8-HxCDF	339808	1.18 y	29:36	1.53	3.407 J	1.127	-	n
2,3,4,6,7,8-HxCDF	135033	0.79 n	30:12	1.41	1.473 J,R	1.226	-	n
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.40	*	1.236	-	n
Total HxCDF	1050609	2.05 n	28:09	1.40	<del>11.489</del> 7.84	1.234	-	n
13C-1,2,3,6,7,8-HxCDD	218715000	1.29 y	30:27	0.74	3870.096	0.961	96.8	n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.12	*	1.442	-	n
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.14	*	1.415	-	n
1,2,3,7,8,9-HxCDD	61475	0.59 n	30:46	1.35	<del>0.030</del>	1.193	-	n
Total HxCDD	423964	0.80 n	29:13	1.20	<del>6.332</del> 1.98	1.340	-	n
13C-1,2,3,4,6,7,8-HpCDF	240951300	0.45 y	32:22	0.96	3297.601	7.935	82.4	n
1,2,3,4,6,7,8-HpCDF	774641	1.45 n	32:23	1.41	9.132 J,R	1.584	-	n
1,2,3,4,7,8,9-HpCDF	218909	0.99 y	33:34	1.24	2.941 J	1.804	-	n
Total HpCDF	2106145	1.45 n	32:23	1.32	<del>26.045</del> 20.24 16.39	1.687	-	n
13C-1,2,3,4,6,7,8-HpCDD	196553800	1.06 y	33:14	0.71	3611.226	6.689	90.3	n
1,2,3,4,6,7,8-HpCDD	175715	0.66 n	33:16	1.13	3.152 J,R	1.293	-	y
Total HpCDD	762940	3.02 n	32:22	1.13	<del>13.687</del> 6.94	1.293	-	y
13C-OCDD	176181300	0.92 y	35:49	0.35	6536.534	3.932	81.7	n
OCDF	841776	1.04 n	35:57	2.12	18.051 J,R	1.828	-	n

OCDD

553067 1.16 n 35:49 1.37

18.316 *JR*

2.131

- n

Run Text: L7DRF-1-AA

Sample text: L7DRF-1-AA :G0I230491-17

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:6  
 Run: 15 File: 27SE101D5 S:25 Acq:28-SEP-10 02:39:37  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 2.78 of which 0.82 named and 1.97 unnamed  
 Conc: 5.57 of which 1.64 named and 3.93 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:32	1.02 n	1.22	85393 83535	4.2 2.4	y n	n n
	2	16:33	1.02 n	<del>0.64</del>	44676 43795	2.5 2.8	n n	n n
	3	16:41	0.51 n	<del>0.29</del>	15373 29952	1.0 2.0	n n	n n
	4	16:50	0.75 y	1.15	59741 79399	2.8 4.6	n y	n n
2,3,7,8-TCDF	5	17:13	0.52 n	1.64	86276 164556	3.3 8.5	y y	n n
	6	17:43	1.17 n	<del>0.63</del>	49912 42784	2.8 2.8	n n	n n

Run Text: L7DRF-1-AA

Sample text: L7DRF-1-AA :G0I230491-17

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:3  
 Run: 15 File: 27SE101D5 S:25 Acq:28-SEP-10 02:39:37  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 1.21 of which \* named and 1.21 unnamed  
 Conc: 2.41 of which \* named and 2.41 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:18	1.04	n 1.03	44736 43057	4.8 2.3	y n	n n
	2	18:40	0.89	n 0.58	21273 23963	1.8 1.7	n n	n n
	3	18:56	0.52	n 0.80	25794 49276	2.5 2.0	n n	n n

Run Text: L7DRF-1-AA

Sample text: L7DRF-1-AA :G0I230491-17

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:4  
 Run: 15 File: 27SE101D5 S:25 Acq:28-SEP-10 02:39:37  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 4.45 of which 0.80 named and 3.65 unnamed  
 Conc: 8.90 of which 1.60 named and 7.30 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:54	0.96 n	1.54	91646 95702	5.3 2.4	y n	n n
	2	21:49	3.02 n	0.26	30058 9945	2.6 0.6	n n	n n
1,2,3,7,8-PeCDF	3	22:17	1.41 y	1.60	94705 66953	5.0 3.1	y y	n n
	4	24:01	0.88 n	5.50	327061 372913	12.3 13.1	y y	n n

*Artifact*

2.14



Run Text: L7DRF-1-AA

Sample text: L7DRF-1-AA :G0I230491-17

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:4  
 Run: 15 File: 27SE101D5 S:25 Acq:28-SEP-10 02:39:37  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 3.73 of which \* named and 3.73 unnamed  
 Conc: 7.46 of which \* named and 7.46 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:17	0.72	n 3.47	206349 288450	24.6	y	n
	2	16:27	0.91	n 0.44	26142 28771	3.0	y	n
	3	17:12	0.68	n 0.21	12713 18813	1.3	n	n
	4	18:56	0.61	n 3.34	198543 327956	18.2	y	n
						18.0	y	n

Run Text: L7DRF-1-AA

Sample text: L7DRF-1-AA :G0I230491-17

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:9  
 Run: 15 File: 27SE101D5 S:25 Acq:28-SEP-10 02:39:37  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 6.67 of which \* named and 6.67 unnamed  
 Conc: 13.33 of which \* named and 13.33 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	21:27	1.93	<del>0.60</del>	24810 12857	2.2	n	n
	2	22:17	2.13	<del>1.11</del>	51087 23945	2.3	n	n
	3	22:47	0.69	<del>0.36</del>	12049 17348	1.3	n	n
	4	22:52	2.35	<del>0.80</del>	40816 17348	2.4	n	n
	5	23:03	3.80	<del>0.17</del>	13923 3663	1.3	n	n
	6	23:38	3.70	<del>0.88</del>	70718 19106	2.4	n	n
	7	24:00	3.30	8.30	591612 179382	28.0	y	n
	8	24:34	1.91	<del>0.65</del>	26727 14028	2.4	n	n
	9	26:43	0.85	<del>0.46</del>	15350 18001	1.5	n	n

Run Text: L7DRF-1-AA

Sample text: L7DRF-1-AA :G0I230491-17

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:6  
 Run: 15 File: 27SE101D5 S:25 Acq:28-SEP-10 02:39:37  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 5.74 of which 3.92 named and 1.82 unnamed  
 Conc: 11.49 of which 7.84 named and 3.65 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N >?	Mod?
	1	28:09	2.05	<del>2.01</del>	167449 81788	6.1 2.2	y n n n
1,2,3,4,7,8-HxCDF	2	29:27	0.84	2.96	134662 160106	6.9 7.0	y n y n
1,2,3,6,7,8-HxCDF	3	29:36	1.18	3.41	183683 156125	7.9 6.5	y n y n
	4	29:44	0.99	<del>0.46</del>	23359 23542	1.4 1.4	n n n n
2,3,4,6,7,8-HxCDF	5	30:12	0.79	1.47	74751 94844	2.5 3.1	n n y n
	6	31:41	0.85	<del>1.18</del>	59291 69643	4.0 2.7	y n n n

7.84

Run Text: L7DRF-1-AA

Sample text: L7DRF-1-AA :G0I230491-17

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:7  
 Run: 15 File: 27SE101D5 S:25 Acq:28-SEP-10 02:39:37  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 3.17 of which 0.42 named and 2.75 unnamed  
 Conc: 6.33 of which 0.83 named and 5.50 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,7,8,9-HxCDD	1	29:13	0.80	<del>0.49</del>	18017 22392	1.5 2.2	n n	n n
	2	29:35	0.64	1.98	72080 112100	4.3 4.0	y y	n n
	3	30:12	2.60	<del>0.77</del>	59055 22745	3.7 2.1	y n	n n
	4	30:46	0.59	<del>0.83</del>	34031 57301	2.6 3.4	n y	n n
	5	30:56	2.65	<del>0.92</del>	71340 26955	5.2 2.5	y n	n n
	6	31:30	1.45	<del>0.49</del>	21101 14534	1.7 1.0	n n	n n
	7	31:41	0.87	<del>0.85</del>	30917 35432	2.2 3.0	n y	n n

Run Text: L7DRF-1-AA

Sample text: L7DRF-1-AA :G0I230491-17

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:7  
 Run: 15 File: 27SE101D5 S:25 Acq:28-SEP-10 02:39:37  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 13.02 of which 6.04 named and 6.99 unnamed  
 Conc: 26.04 of which 12.07 named and 13.97 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	32:23	1.45	n	9.13	549854	20.1	y n
						379726	21.5	y n
	2	32:35	0.76	n	<del>1.31</del>	53070	1.9	n n
						69742	2.9	n n
	3	32:42	0.91	y	4.32	163649	4.9	y n
						180432	9.3	y n
	4	33:17	0.92	y	<del>4.55</del>	173575	6.1	y n
						188749	10.9	y n
	5	33:30	0.18	n	<del>0.49</del>	20069	0.8	n n
						110046	5.4	y n
1,2,3,4,7,8,9-HpCDF	6	33:34	0.99	y	2.94	108863	3.5	y n
						110046	5.4	y n
	7	34:48	0.96	y	<del>3.30</del>	128986	4.2	y n
						133739	6.7	y n

16.39

Run Text: L7DRF-1-AA

Sample text: L7DRF-1-AA :G0I230491-17

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:5  
 Run: 15 File: 27SE101D5 S:25 Acq:28-SEP-10 02:39:37  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 10.23 of which 4.97 named and 5.27 unnamed  
 Conc: 20.47 of which 9.93 named and 10.54 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:22	3.02	<del>1.09</del>	89587 29663	8.2 2.6	y n	n n
	2	32:39	1.56	3.79	161545 103473	13.0 9.5	y y	n n
1,2,3,4,6,7,8-HpCDD	3	33:17	0.94	9.93	268399 285164	18.2 17.0	y y	n n
	4	33:33	1.83	<del>1.46</del>	73168 39919	5.7 3.9	y y	n n
	5	34:47	1.32	<del>4.20</del>	151390 114800	12.9 9.5	y y	n n

*See  
att*

Run Text: L7DRF-1-AA

Sample text: L7DRF-1-AA :G0I230491-17

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? yes #Hom:5  
 Run: 15 File: 27SE101D5 S:25 Acq:28-SEP-10 02:39:37  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 6.84 of which 1.58 named and 5.27 unnamed  
 Conc: 13.69 of which 3.15 named and 10.54 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:22	3.02	n	<del>1.09</del>	89587	8.2	y n
						29663	2.6	n n
	2	32:39	1.56	n	3.79	161545	13.0	y n
						103473	9.5	y n
1,2,3,4,6,7,8-HpCDD	3	33:16	0.66	n	3.15	89580	12.9	y y
						135892	13.6	y y
	4	33:33	1.83	n	1.46	73168	5.7	y n
						39920	3.9	y n
	5	34:47	1.32	n	4.20	151390	12.9	y n
						114800	9.5	y n

6.94

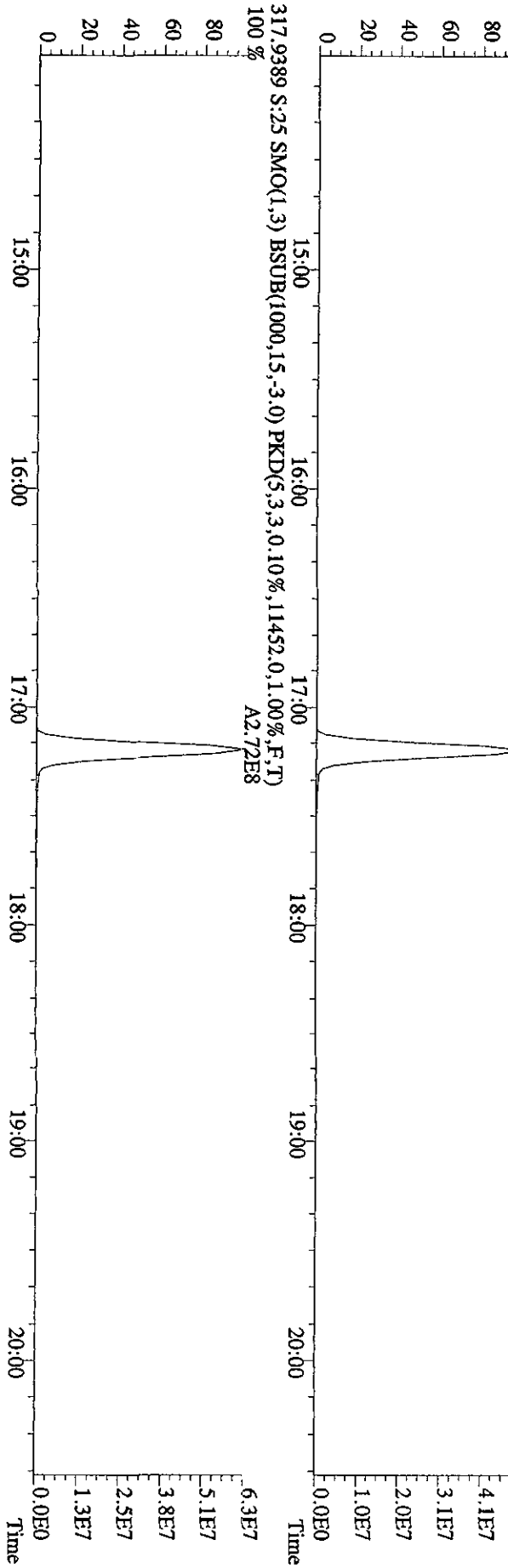
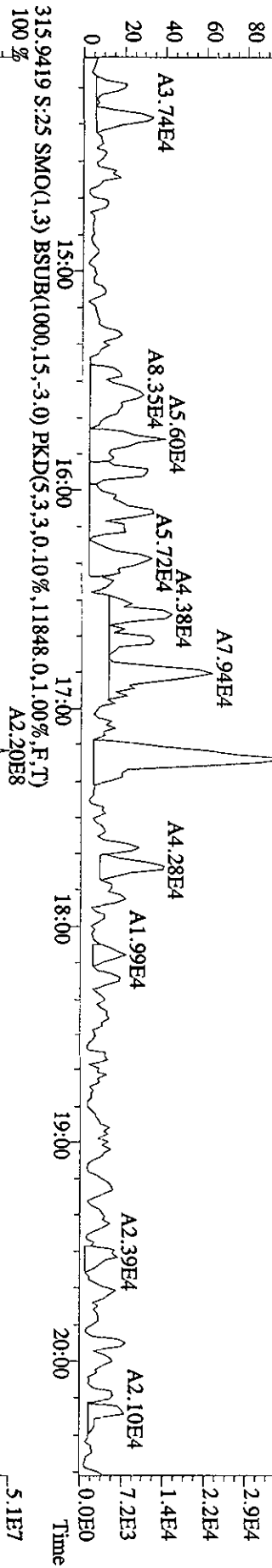
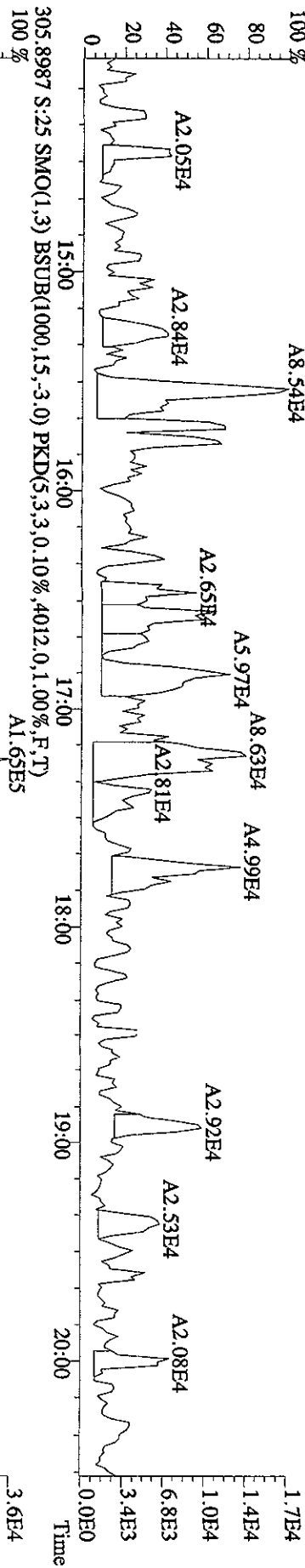


Run text: L7DRF-1-AA      Sample text: L7DRF-1-AA :G0I230491-17  
 Run #15 Filename: 27SE101D5    S: 25    I: 1      Results: 27SE101D5TO9  
 Acquired: 28-SEP-10    02:39:37      Processed: 28-SEP-10    09:22:59  
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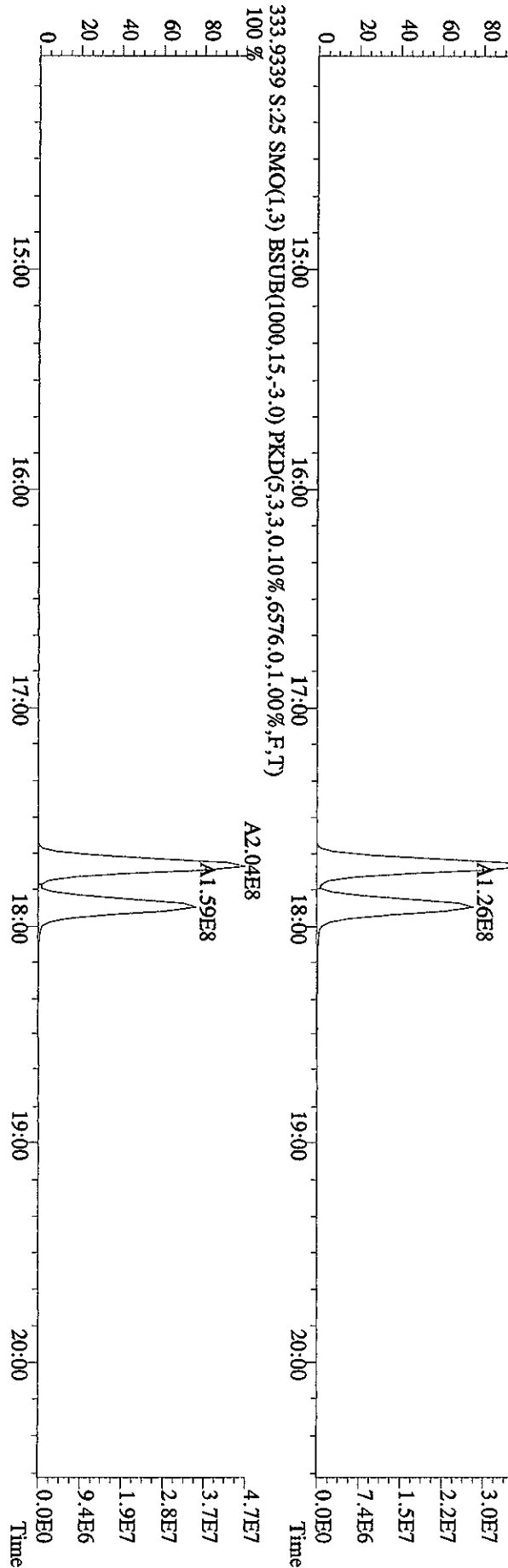
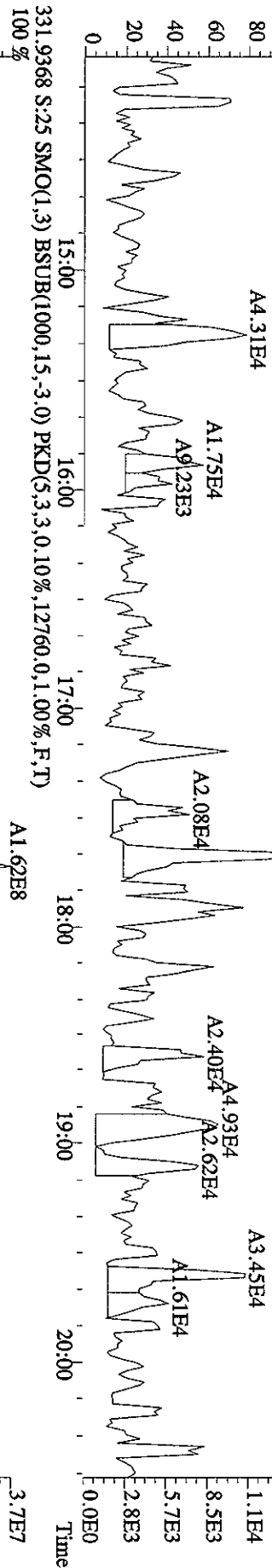
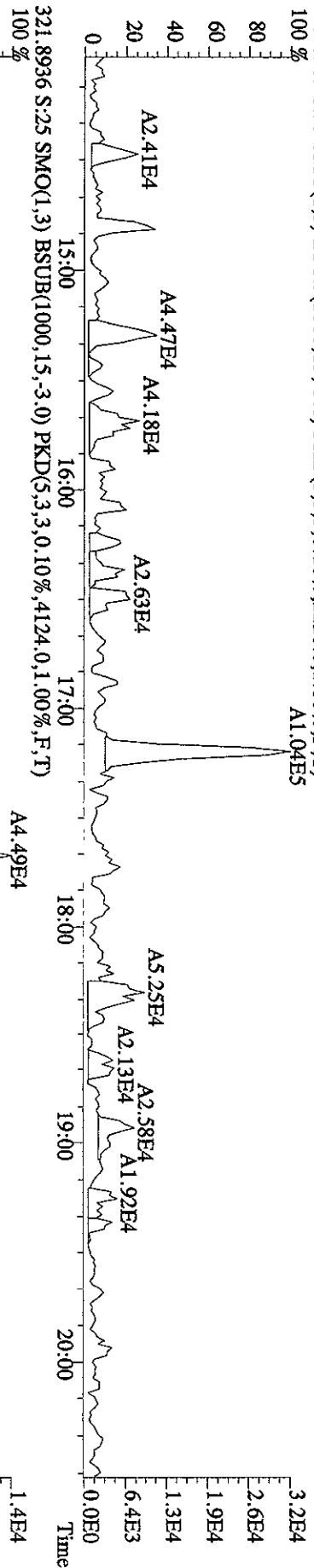
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	366008000	0.79 y	17:43	-	209.49	-	-	n
13C-2,3,7,8-TCDF	492018000	0.81 y	17:12	1.56	3440.11	2.13	86.0	n
2,3,7,8-TCDF	198323	0.52 n	17:13	0.98	1.64	0.84	-	n
Total TCDF	673900	1.02 n	15:32	0.98	5.57	0.84	-	n
13C-2,3,7,8-TCDD	285722000	0.79 y	17:55	0.92	3390.83	3.00	84.8	n
2,3,7,8-TCDD	*	* n	NotFnd	1.03	*	1.16	-	n
Total TCDD	177918	1.04 n	15:18	1.03	2.41	1.16	-	n
37Cl-2,3,7,8-TCDD	152055800	1.00 y	17:56	1.23	1735.93	2.10	108.5	n
13C-1,2,3,7,8-PeCDF	370840000	1.65 y	22:15	1.05	3850.44	1.63	96.3	n
1,2,3,7,8-PeCDF	161658	1.41 y	22:17	1.09	1.60	1.28	-	n
2,3,4,7,8-PeCDF	*	* n	NotFnd	1.02	*	1.37	-	n
Total F2 PeCDF	875857	0.96 n	20:54	1.05	8.90	1.32	-	n
Total F1 PeCDF	730036	0.72 n	15:17	1.05	7.46	1.01	-	n
13C-1,2,3,7,8-PeCDD	205837000	1.62 y	24:17	0.56	4010.82	2.38	100.3	n
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.07	*	1.64	-	n
Total PeCDD	734416	1.93 n	21:27	1.07	13.33	1.64	-	n
13C-1,2,3,7,8,9-HxCDD	305693000	1.29 y	30:45	-	186.27	-	-	n
13C-1,2,3,4,7,8-HxCDF	260588900	0.53 y	29:27	0.99	3441.32	10.30	86.0	n
1,2,3,4,7,8-HxCDF	243260	0.84 n	29:27	1.26	2.96	1.37	-	n
1,2,3,6,7,8-HxCDF	339808	1.18 y	29:36	1.53	3.41	1.13	-	n
2,3,4,6,7,8-HxCDF	135033	0.79 n	30:12	1.41	1.47	1.23	-	n
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.40	*	1.24	-	n
Total HxCDF	1050609	2.05 n	28:09	1.40	11.49	1.23	-	n
13C-1,2,3,6,7,8-HxCDD	218715000	1.29 y	30:27	0.74	3870.10	0.96	96.8	n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.12	*	1.44	-	n
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.14	*	1.42	-	n
1,2,3,7,8,9-HxCDD	61475	0.59 n	30:46	1.35	0.83	1.19	-	n
Total HxCDD	423964	0.80 n	29:13	1.20	6.33	1.34	-	n
13C-1,2,3,4,6,7,8-HpCDF	240951300	0.45 y	32:22	0.96	3297.60	7.93	82.4	n
1,2,3,4,6,7,8-HpCDF	774641	1.45 n	32:23	1.41	9.13	1.58	-	n
1,2,3,4,7,8,9-HpCDF	218909	0.99 y	33:34	1.24	2.94	1.80	-	n
Total HpCDF	2106145	1.45 n	32:23	1.32	26.04	1.69	-	n
13C-1,2,3,4,6,7,8-HpCDD	196553800	1.06 y	33:14	0.71	3611.23	6.69	90.3	n
1,2,3,4,6,7,8-HpCDD	553563	0.94 y	33:17	1.13	9.93	1.29	-	n
Total HpCDD	1140787	3.02 n	32:22	1.13	20.47	1.29	-	n
13C-OCDD	176181300	0.92 y	35:49	0.35	6536.53	3.93	81.7	n
OCDF	841776	1.04 n	35:57	2.12	18.05	1.83	-	n
OCDD	553067	1.16 n	35:49	1.37	18.32	2.13	-	n



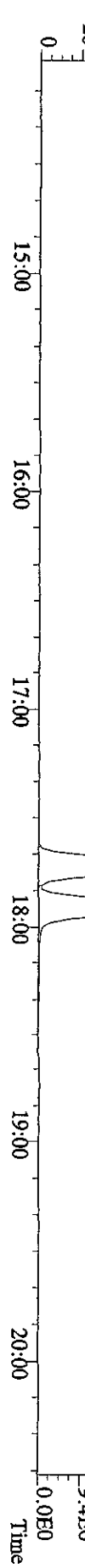
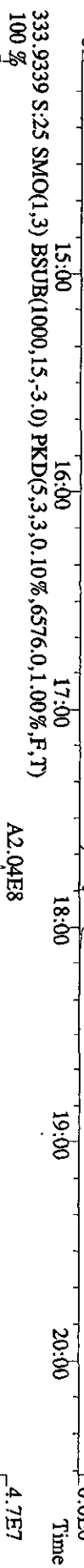
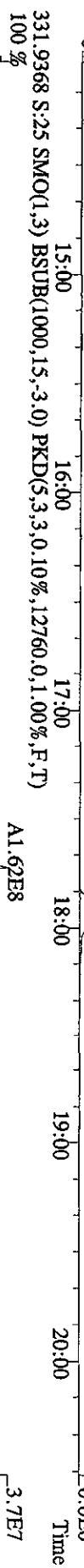
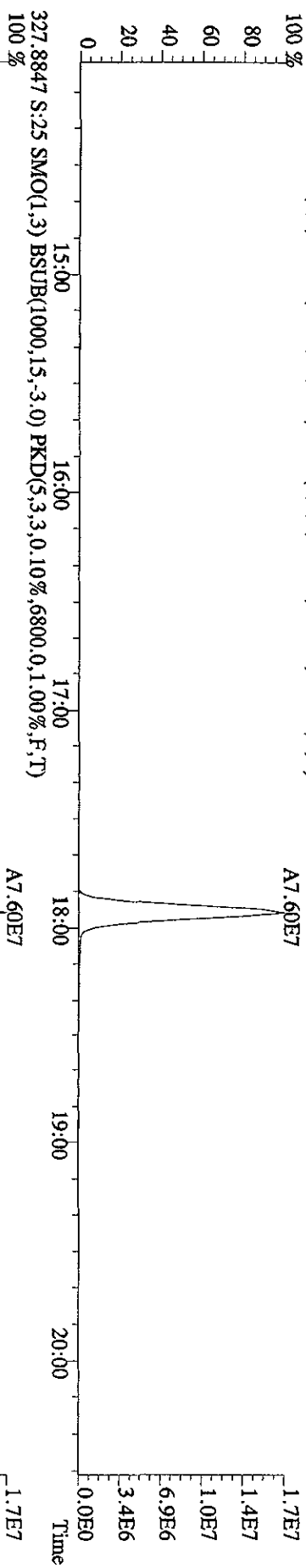
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 Sample#25 Text: L7DRF-1-AA : G01230491-17 Exp: DIOXINRES  
 303.9016 S: 25 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3812.0,1.00%,F,T)  
 100%



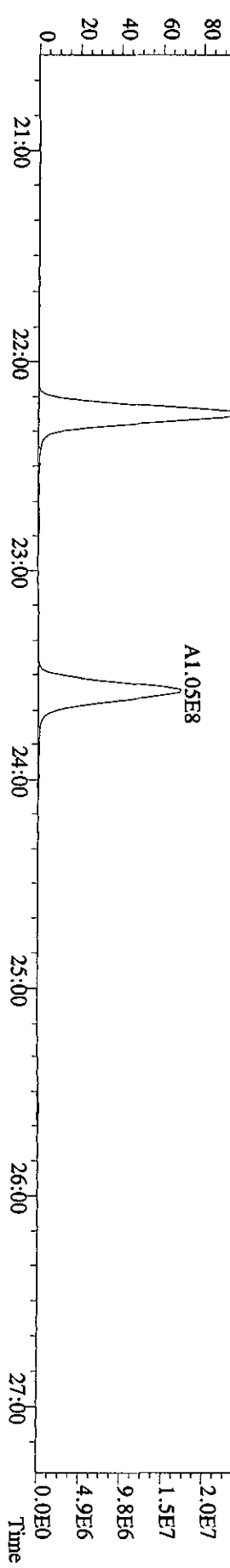
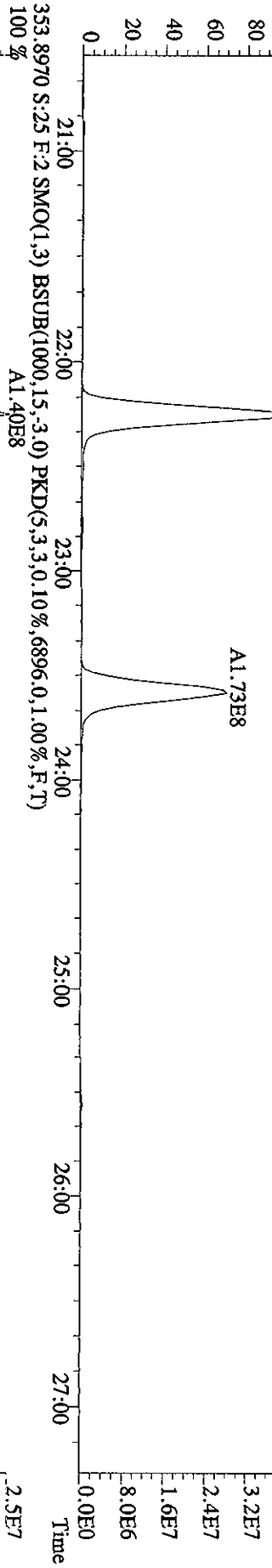
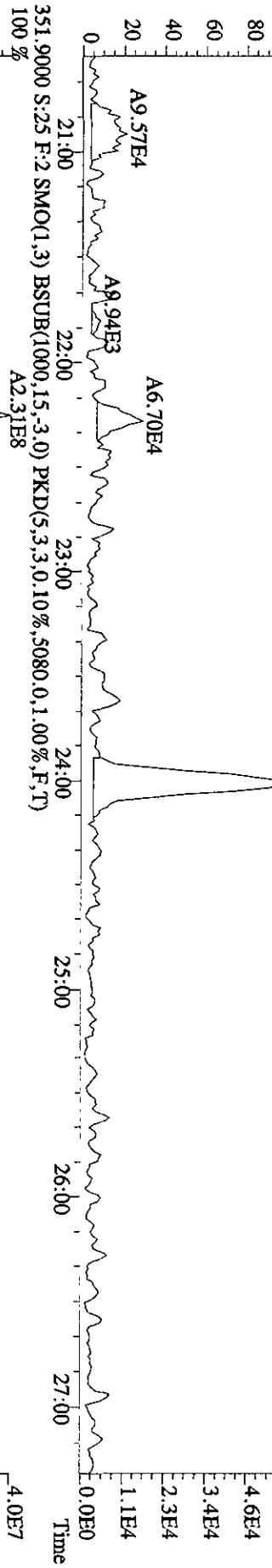
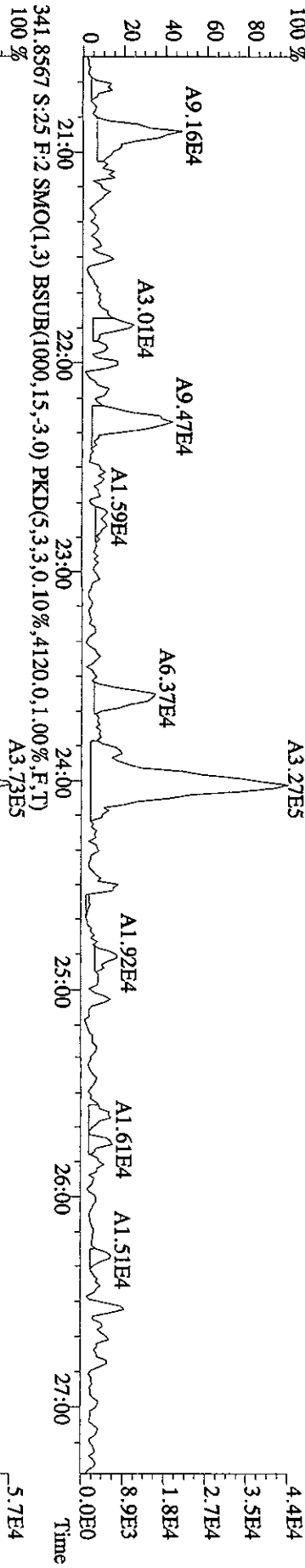
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 Sample#25 Text:L7DRF-1-AA :G01230491-17 Exp.:DIOXINRES  
 319.8965 S:25 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2220,0,1,00%,F,T)  
 100%



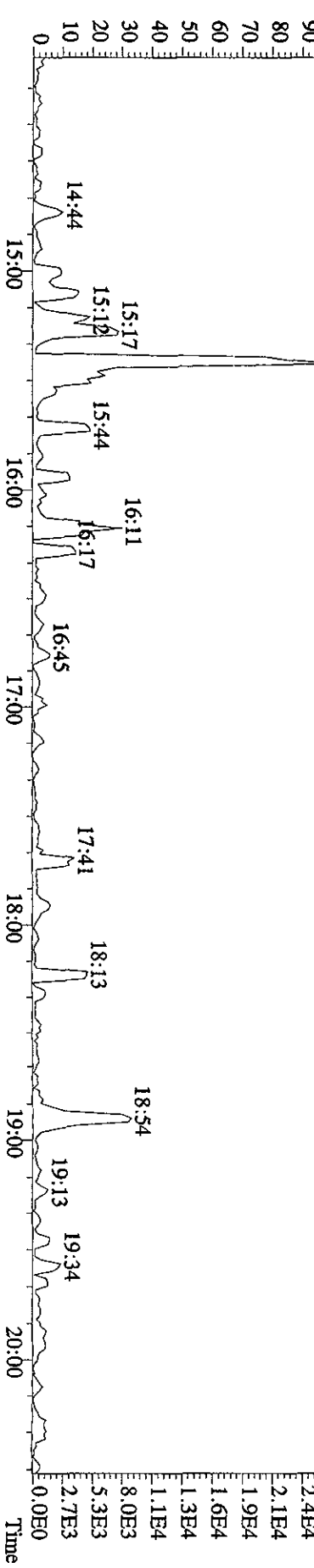
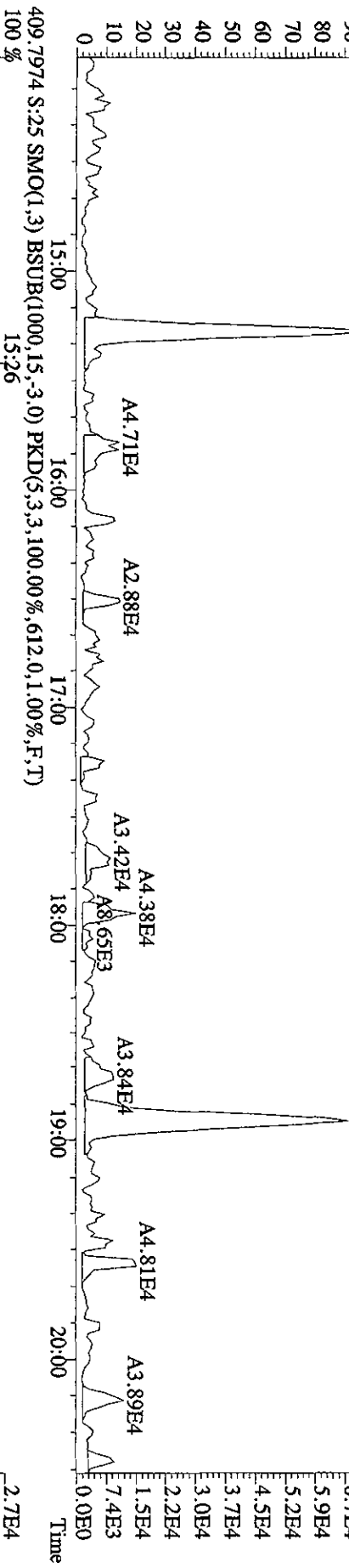
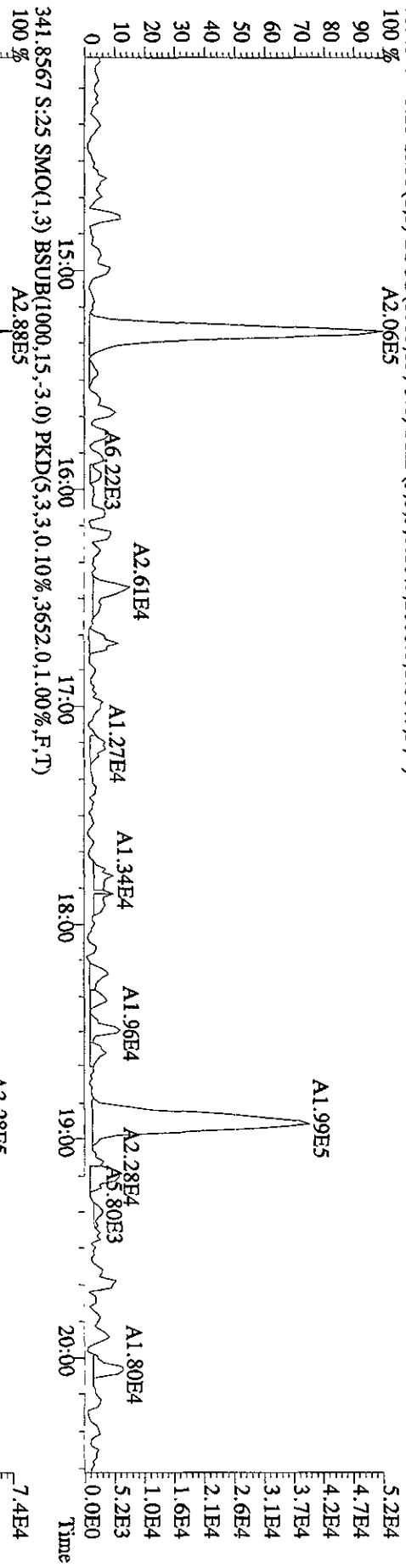
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 Sample# 25 Text: L7DRF-1-AA : G01230491-17 Exp: DIOXINRES  
 327.8847 S: 25 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6800,0,1,00%,F,T)  
 100%



File: 27SE101D5 #1-422 Acq: 28-SEP-2010 02:39:37 GC EI+ Voltage SIR 70SE  
 Sample#25 Text: L7DRF-1-AA :G01230491-17 Exp: DIOXINRES  
 339.8597 S:25 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3440.0,1.00%,F,T)  
 100%



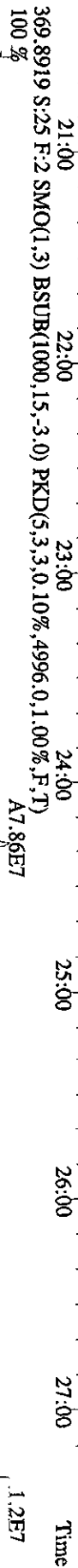
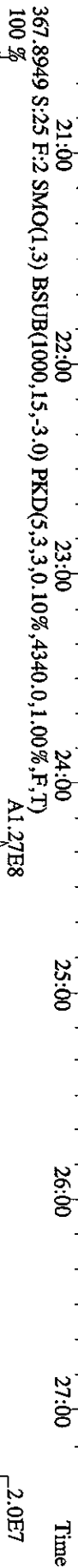
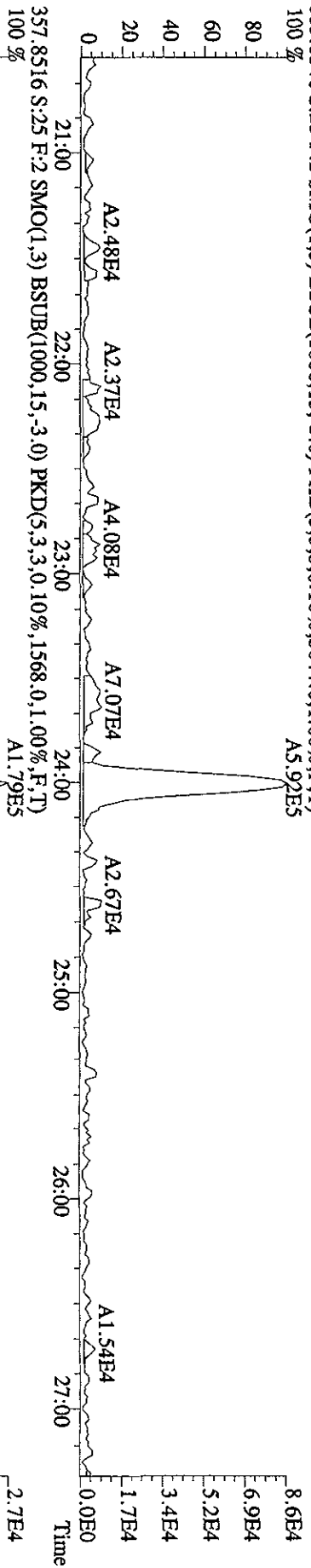
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 Sample# 25 Text: L7DRE-1-AA : G01230491-17 Exp: DIOXINRES  
 339 8597 S: 25 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2088,0,1,00%,F,T)



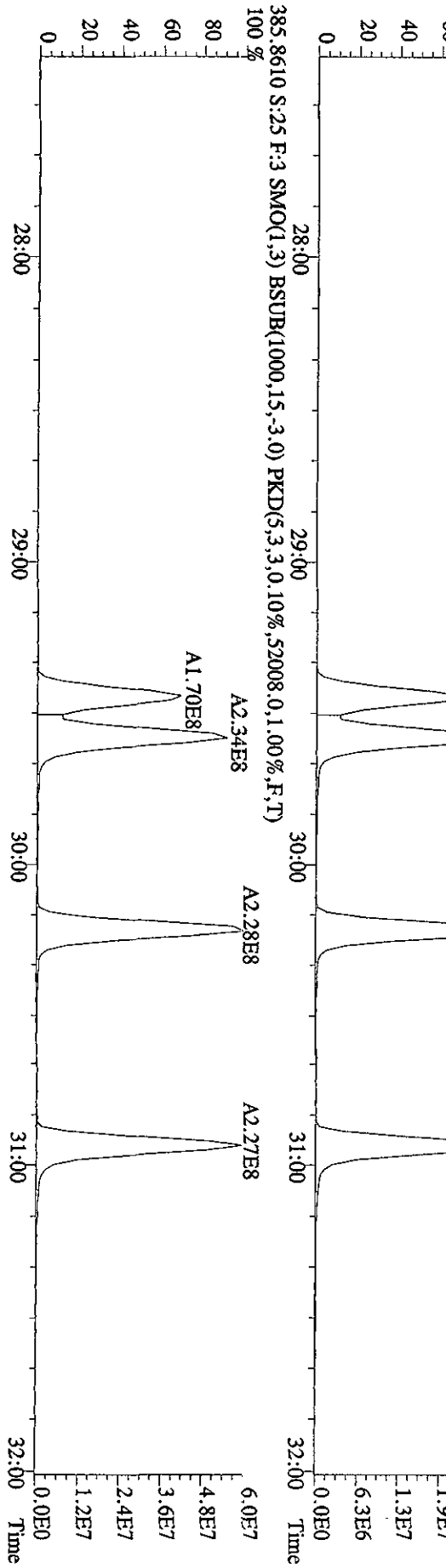
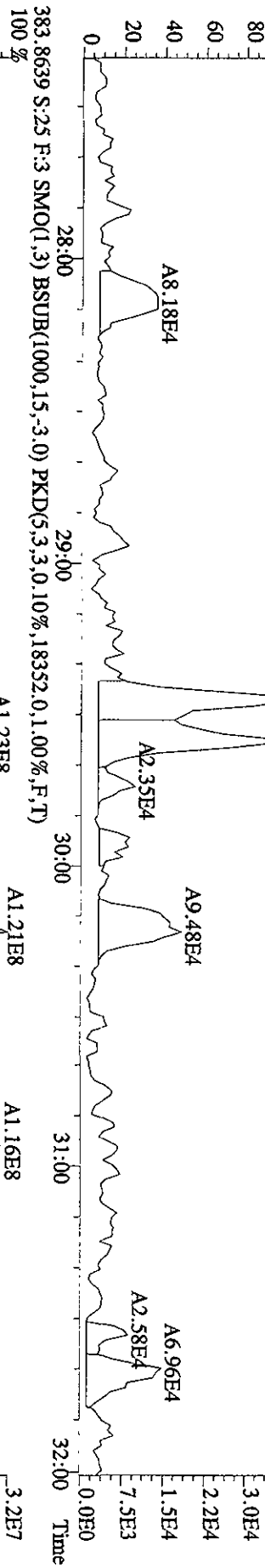
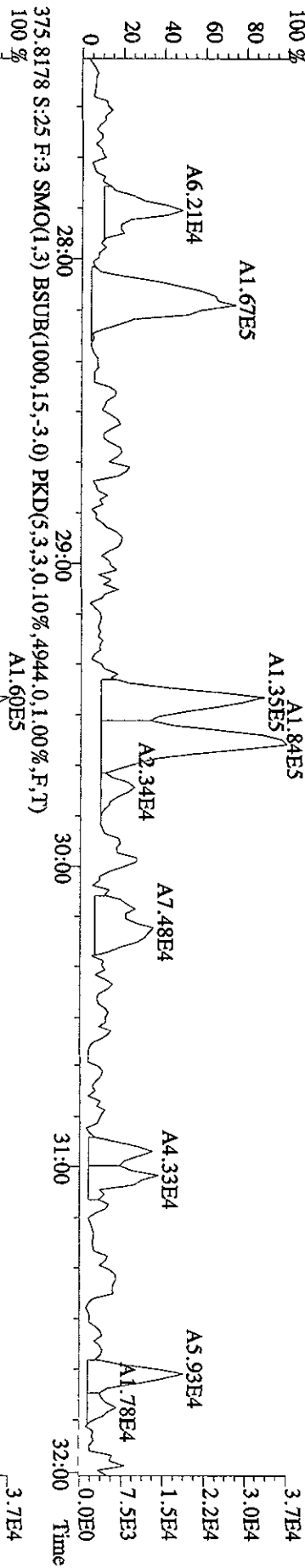
File: 27SE101D5 #1-422 Acq: 28-SEP-2010 02:39:37 GC EI+ Voltage SIR 70SE

Exp: DIOXINRES

Sample# 25 Text: L7DRF-1-AA : G01230491-17  
357.8516 S: 2.5 F: 2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1568,0.1,0.00%,F,T)  
100% A5.92E5



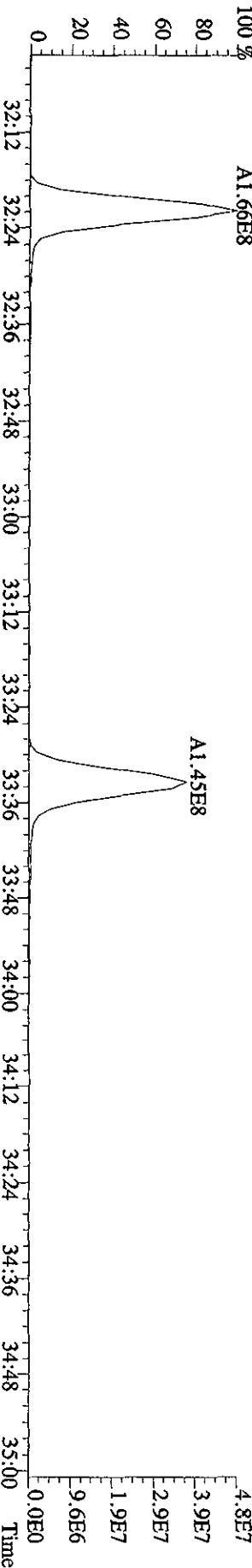
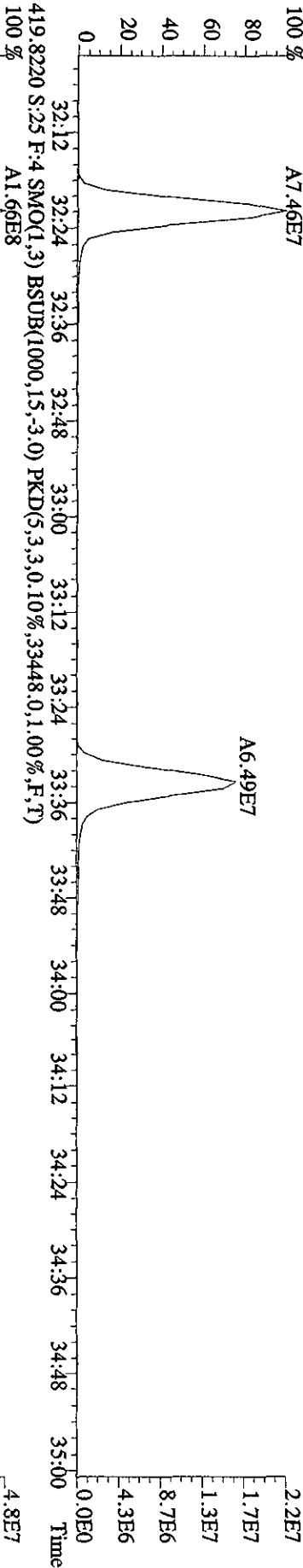
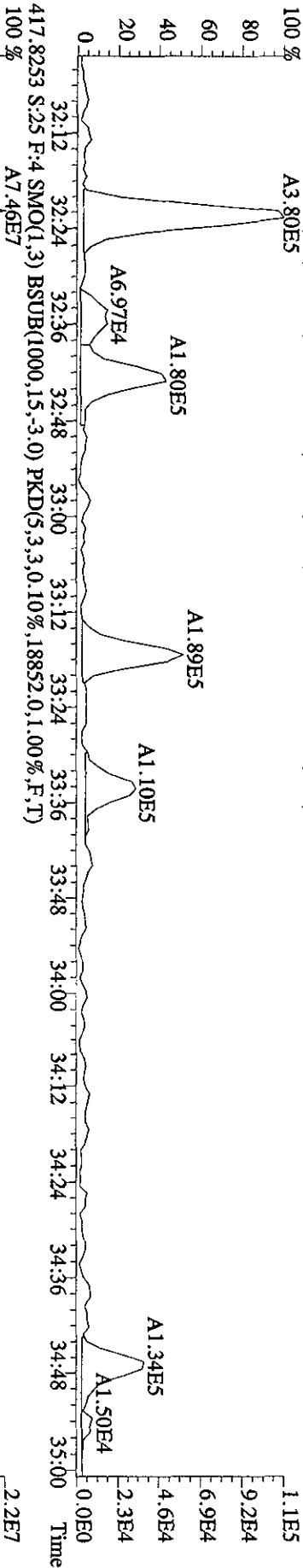
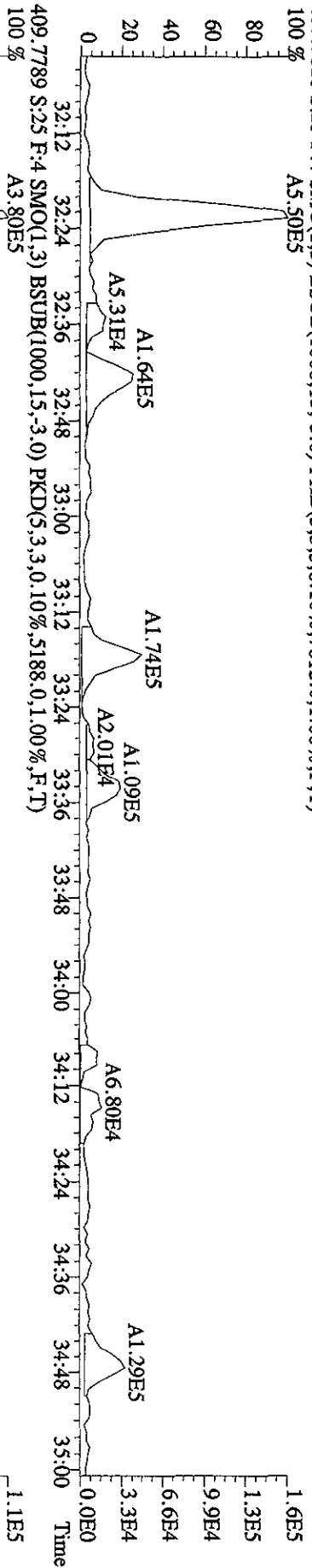
File: 27SE101D5 #1-301 Acq: 28-SEP-2010 02:39:37 GC EI + Voltage STR 70SE  
 Sample#25 Text: L7DRF-1-AA :G01230491-17 Exp: DIOXINRES  
 373.8208 S:25 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4284,0.1,00%,F,T)



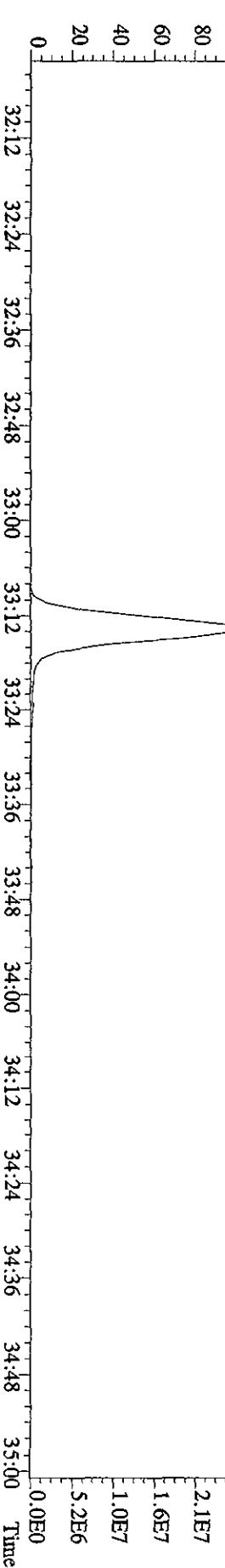
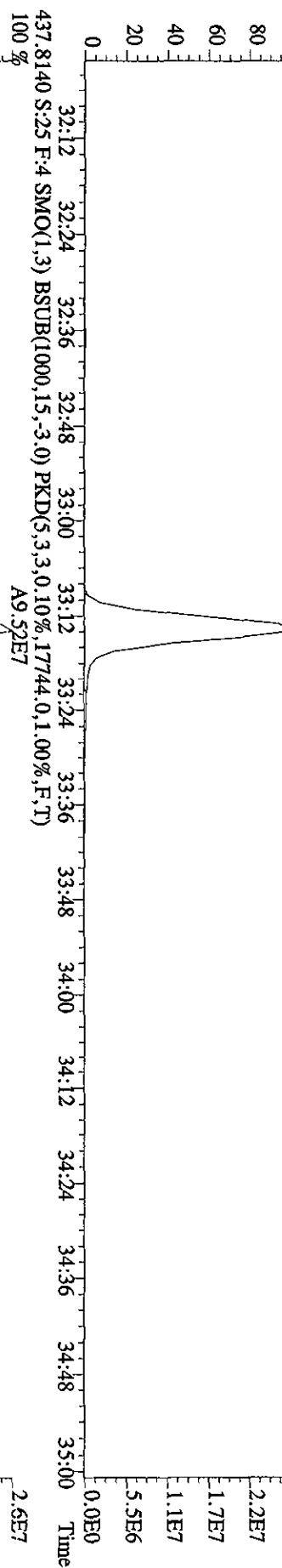
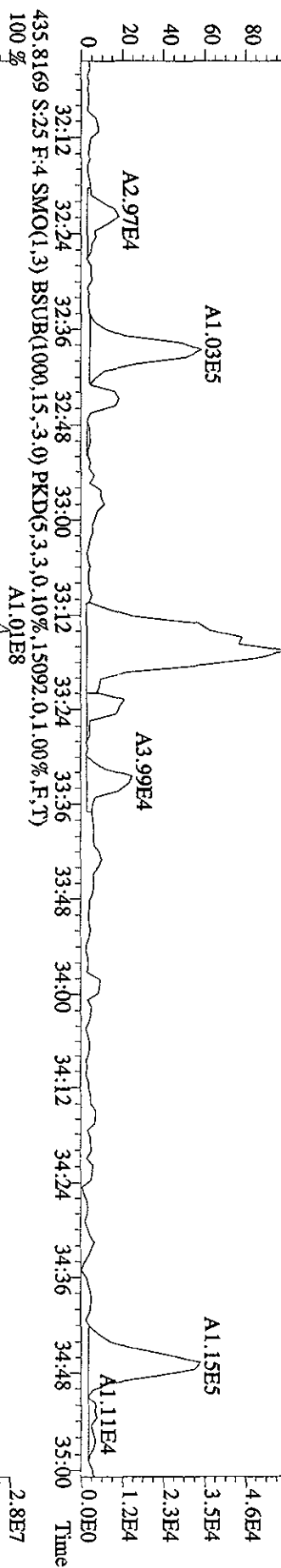
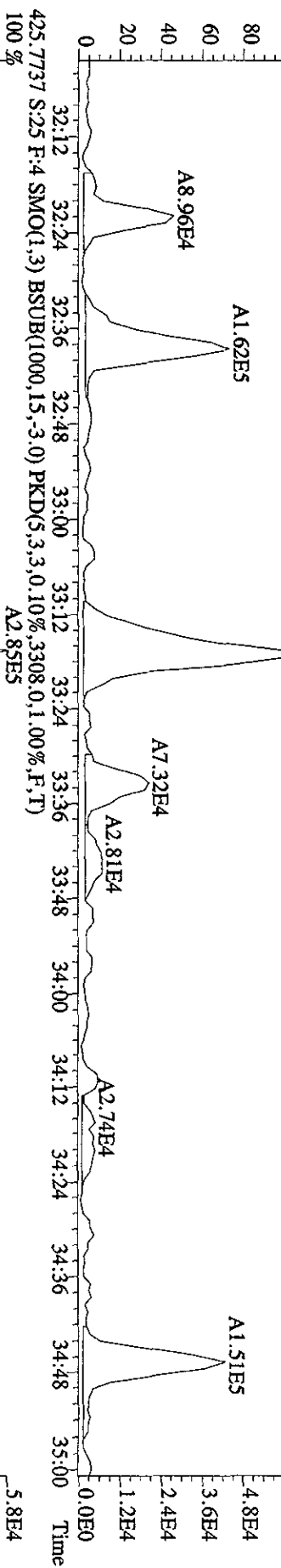




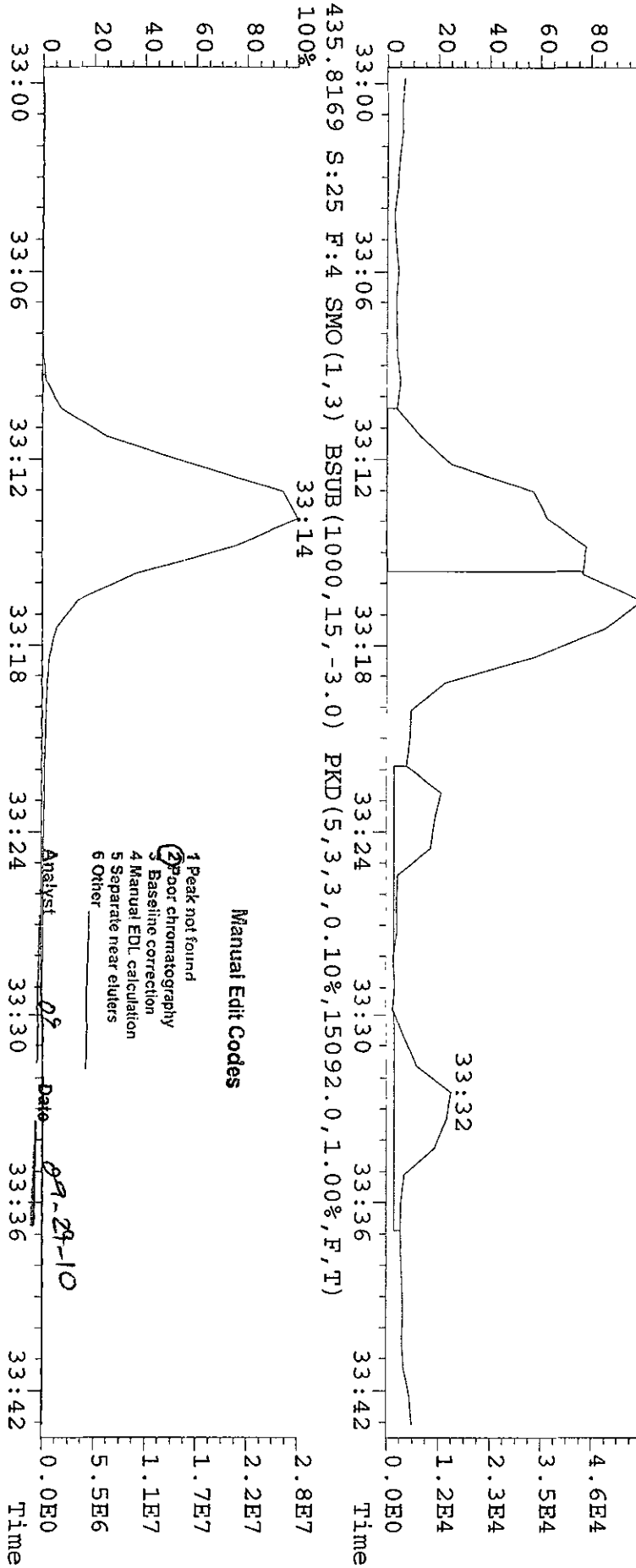
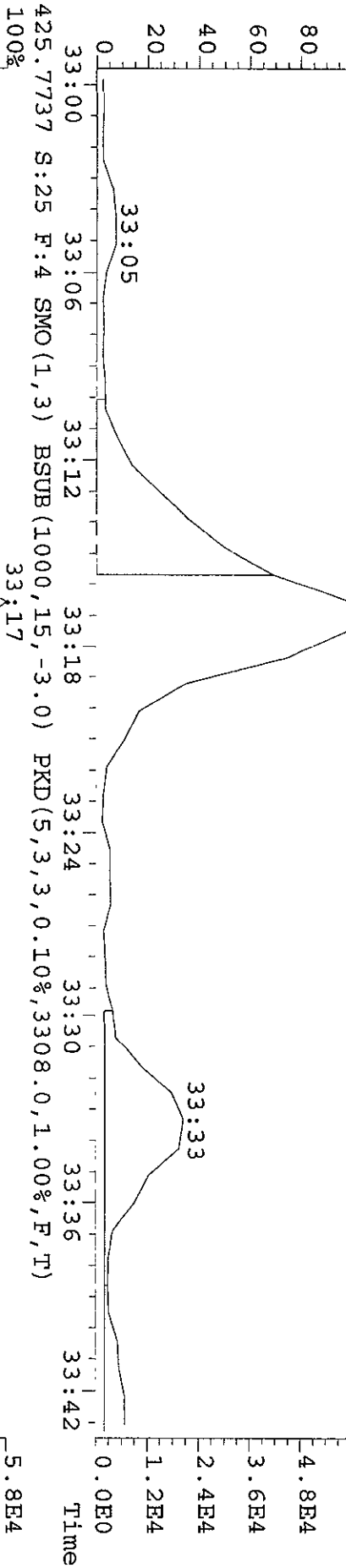
File: 27SE101D5 #1-203 Acq: 28-SEP-2010 02:39:37 GC EI+ Voltage SIR 70SE  
 Sample# 25 Text: L7DRF-1-AA : G01230491-17 Exp: DIOXINRES  
 407.7818 S:25 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7812,0,1.00%,F,T)  
 100% A5.50E5



File: 27SE101D5 #1-203 Acq: 28-SEP-2010 02:39:37 GC EI+ Voltage SIR 70SE  
 Sample#25 Text: L7DRE-1-AA :G01230491-17 Exp: DIOXINRES  
 423.7766 S:25 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,1.00%,F,T)  
 100%



File: 27SE101D5 #1-203 Acq: 28-SEP-2010 02:39:37 GC EI+ Voltage SIR 70SE  
 Sample#25 Text: L7DRF-1-AA : G0I230491-17 Exp: DIOXINRES  
 423.7766 S:25 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3228.0,1.00%,F,T)

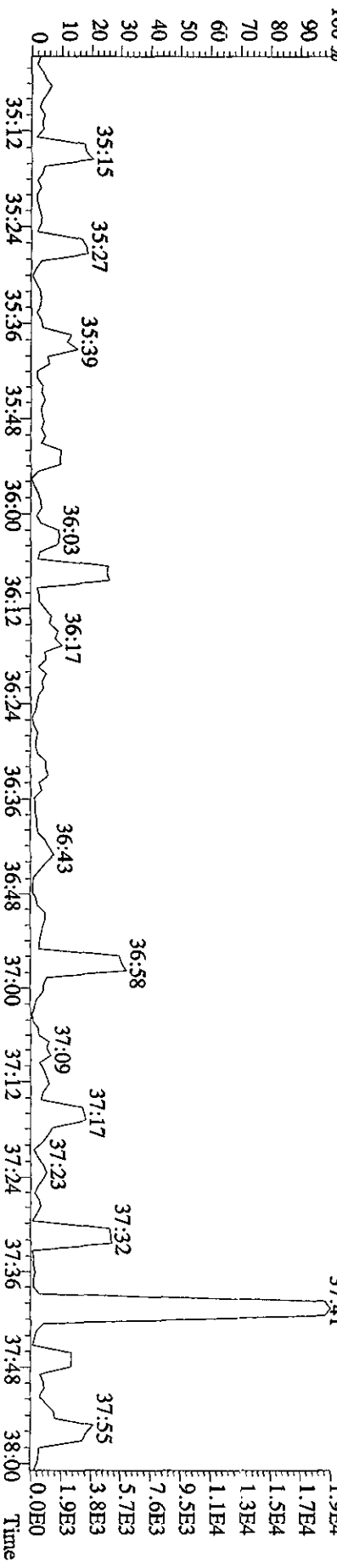
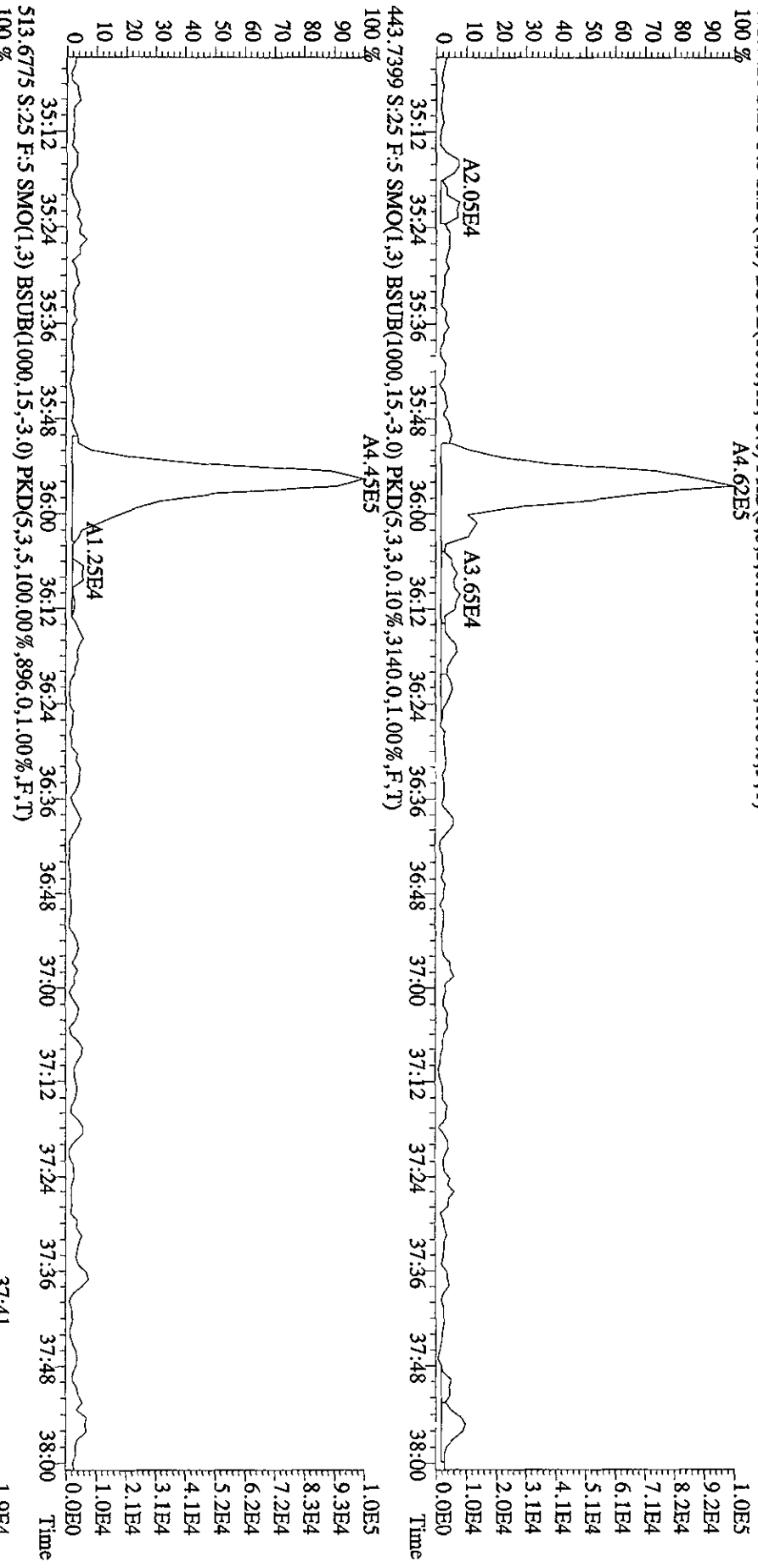


**Manual Edit Codes**

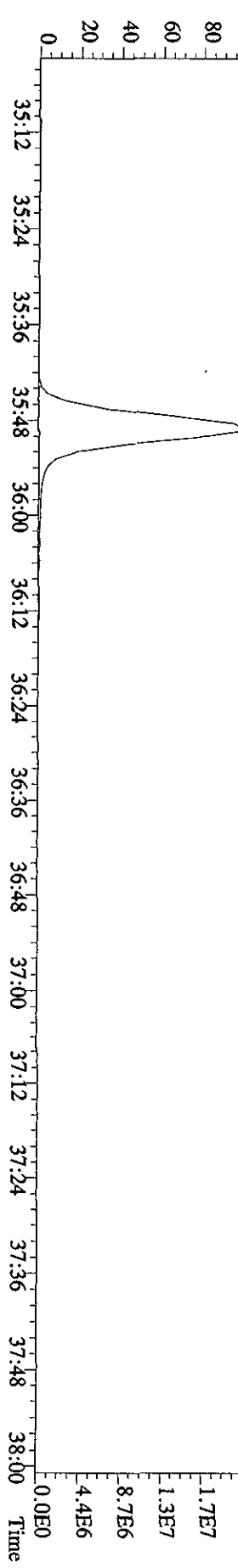
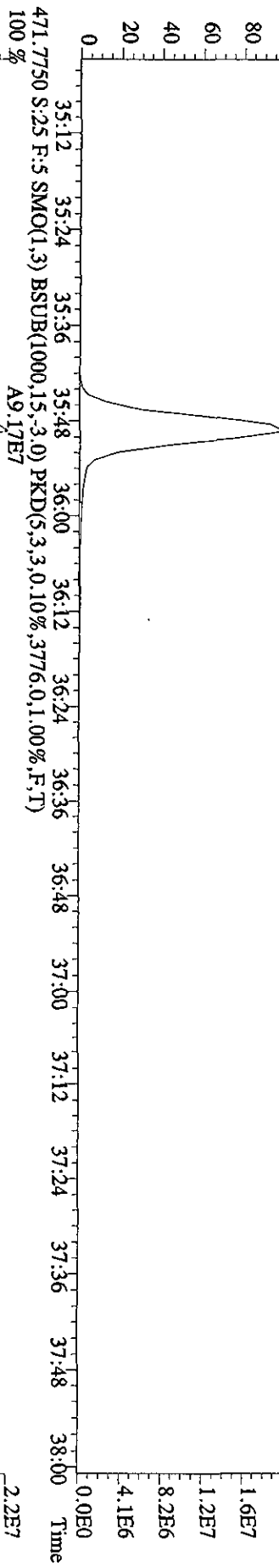
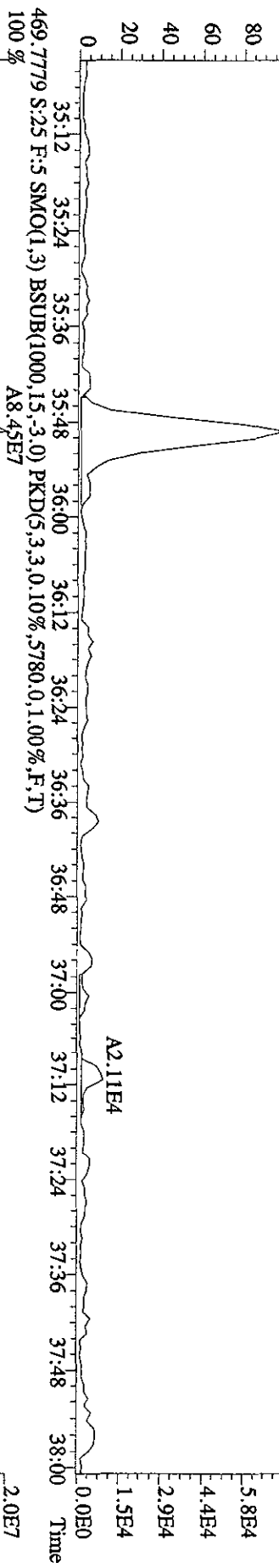
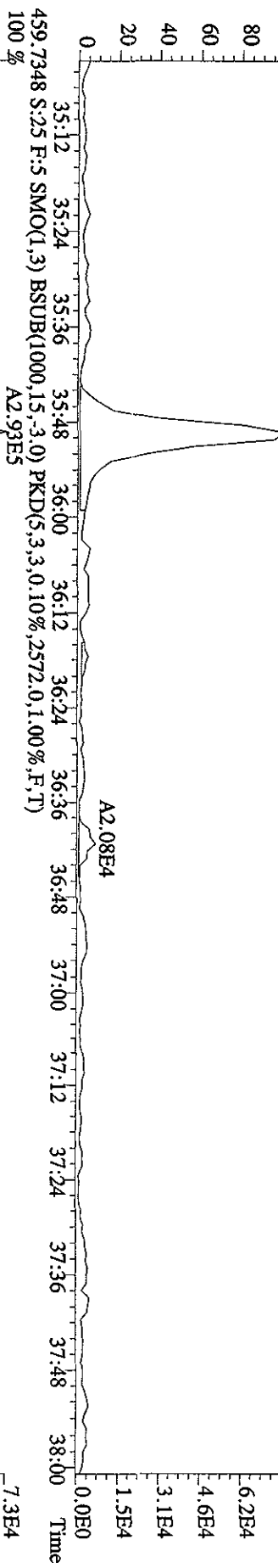
- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

Analyst: 02 Date: 09-29-10

File: 27SE101D5 #1-196 Acq: 28-SEP-2010 02:39:37 GC EI+ Voltage SIR 70SE  
 Sample# 25 Text: L7DRE-1-AA : G01230491-17 Exp: DIOXINRES  
 441.7428 S: 25 F: 5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3676.0,1.00%,F,T)  
 A4.62E5

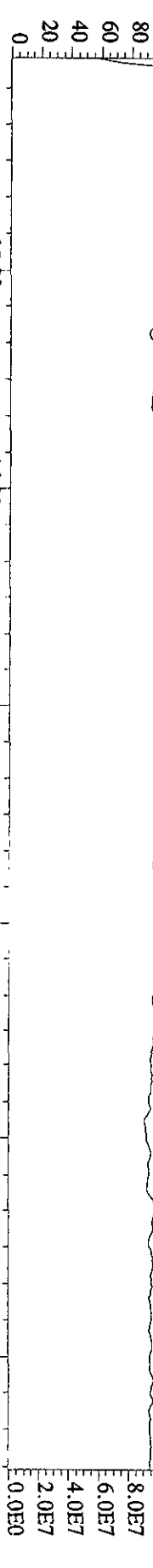


File: 27SE101D5 #1-196 Acq: 28-SEP-2010 02:39:37 GC EI+ Voltage SIR 70SE  
 Sample# 25 Text: L7DRF-1-AA :G01230491-17 Exp: DIOXINRES  
 457.7377 S: 25 F: 5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2572.0,1.00%,F,T)  
 100 % A3.39E5

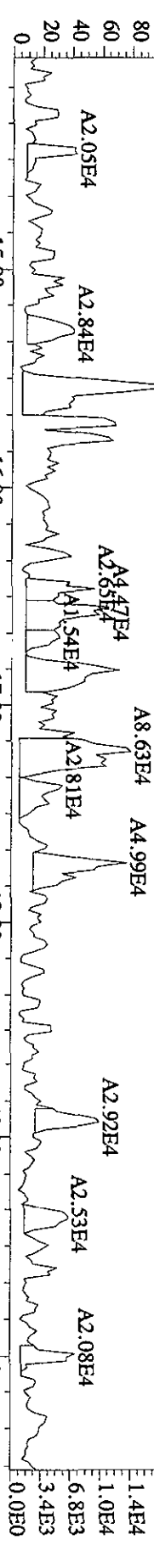


File: 27SE101D5 #1-382 Acq: 28-SEP-2010 02:39:37 GC EI+ Voltage SIR 70SE  
 Sample#25 Text: L7DRF-1-AA :G01230491-17 Exp: DIOXINRES

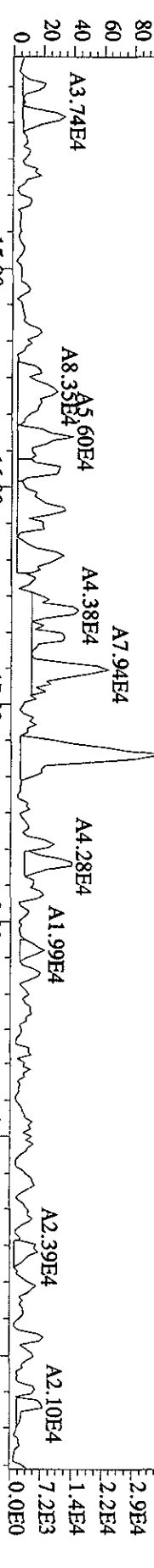
292.9825 S:25 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)  
 14:19 14:47 15:13 15:47 16:17 16:39 17:01 17:21 17:52 18:18 18:43 19:19 19:50 20:13



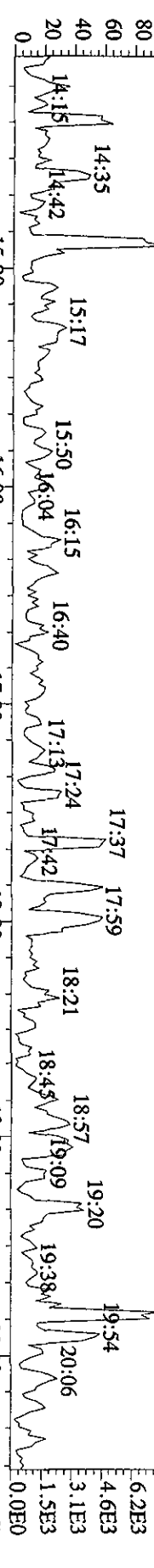
303.9016 S:25 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3812,0,1,00%,F,T)  
 1.7E4  
 1.4E4  
 1.0E4  
 6.8E3  
 3.4E3  
 0.0E0



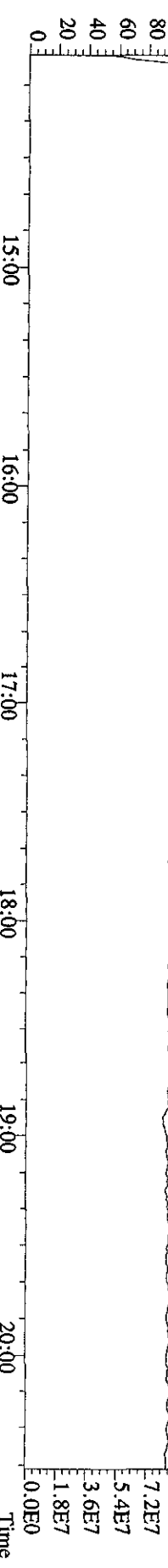
305.8987 S:25 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4012,0,1,00%,F,T)  
 3.6E4  
 2.9E4  
 2.2E4  
 1.4E4  
 7.2E3  
 0.0E0



375.8364 S:25 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,1536,0,1,00%,F,T)  
 7.7E3  
 6.2E3  
 4.6E3  
 3.1E3  
 1.5E3  
 0.0E0



330.9792 S:25 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)  
 9.0E7  
 7.2E7  
 5.4E7  
 3.6E7  
 1.8E7  
 0.0E0

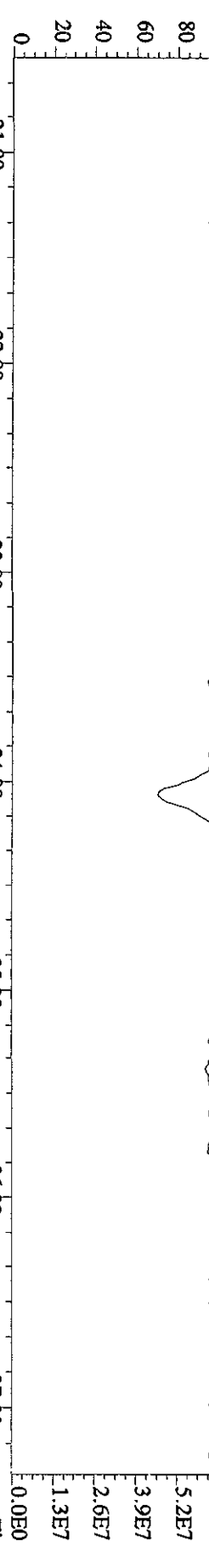


Sample#25 Text:L7DRF-1-AA :G0I230491-17

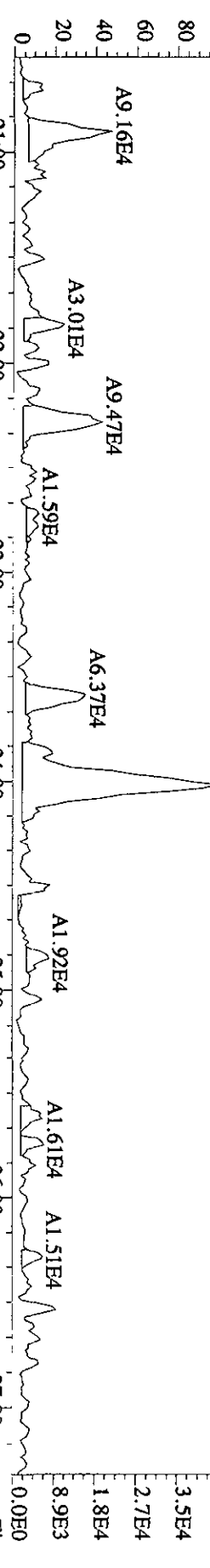
342.9792 S:25 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 % 20:49 21:23 21:44 22:20 22:48 23:26 23:55 24:26 25:01 25:29 25:52 26:13 26:44 27:05

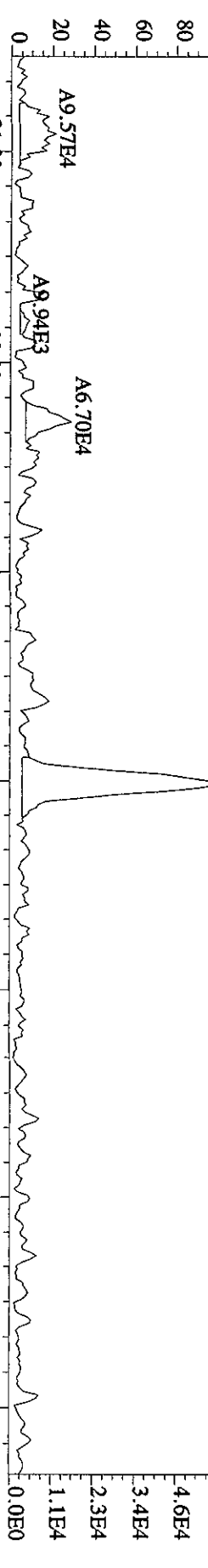
6.6E7



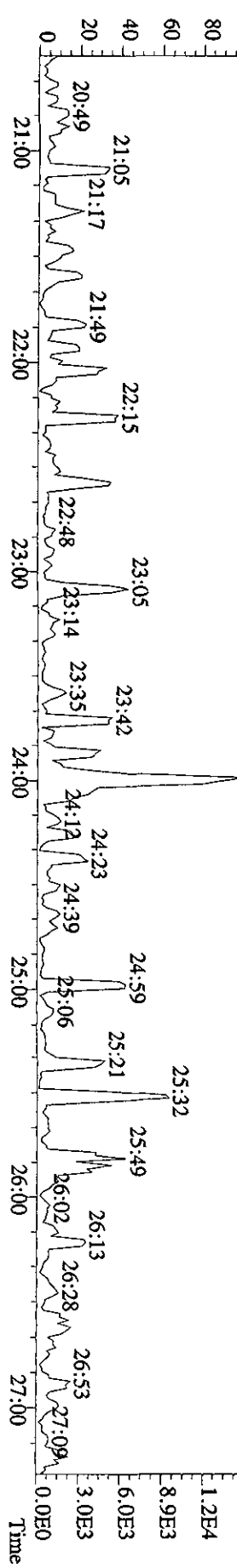
339.8597 S:25 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3440,0,1.00%,F,T)



341.8567 S:25 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4120,0,1.00%,F,T)



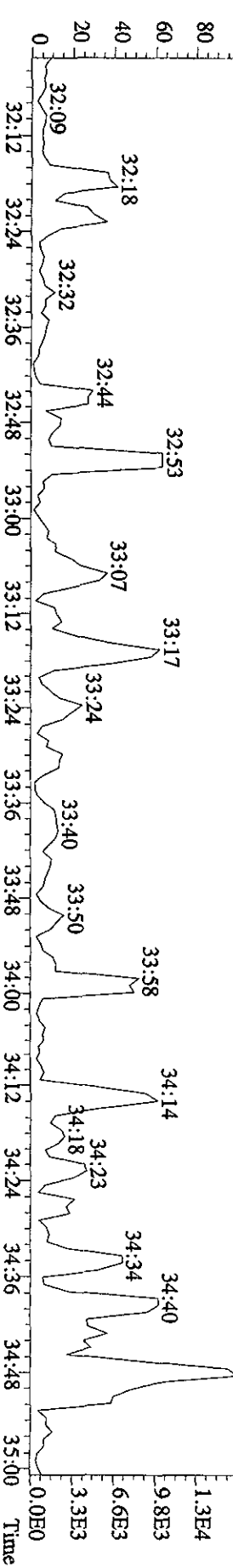
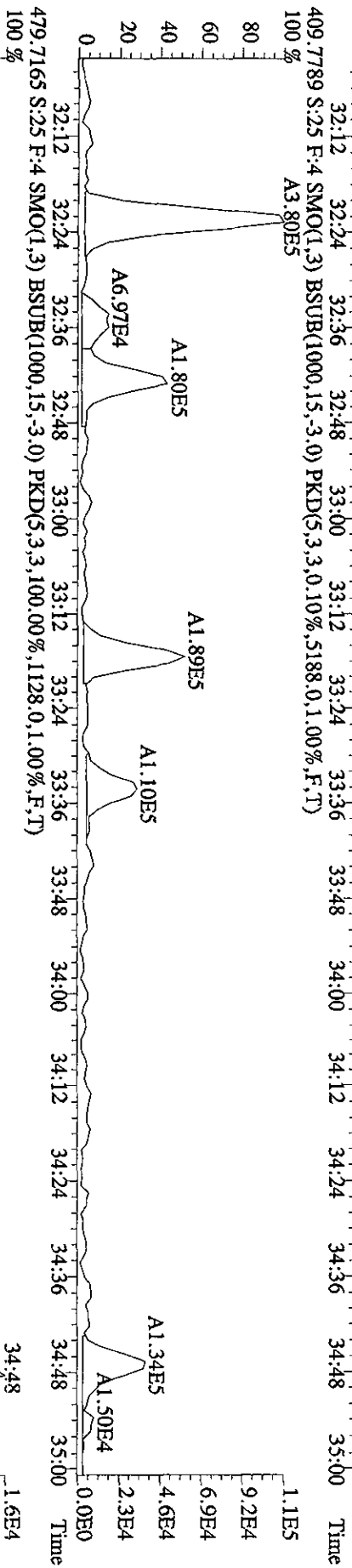
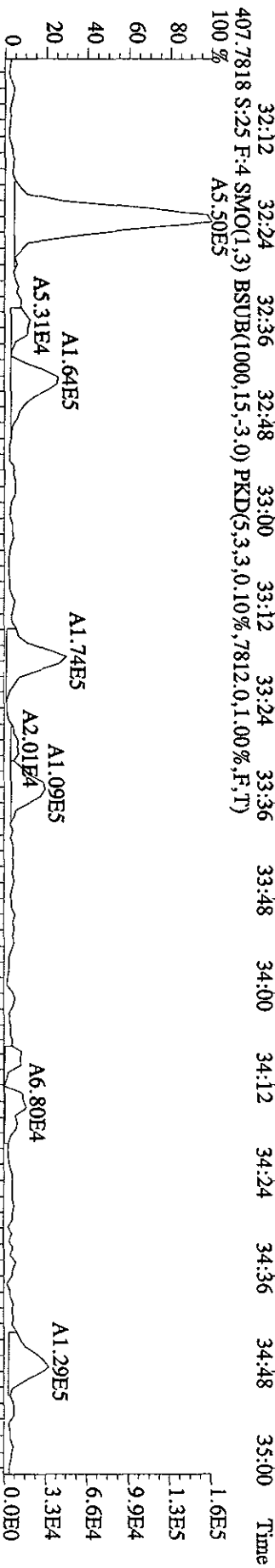
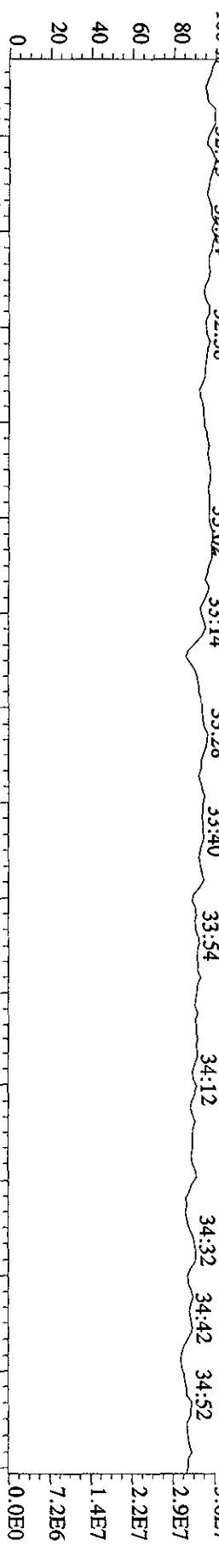
409.7974 S:25 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1220,0,1.00%,F,T)



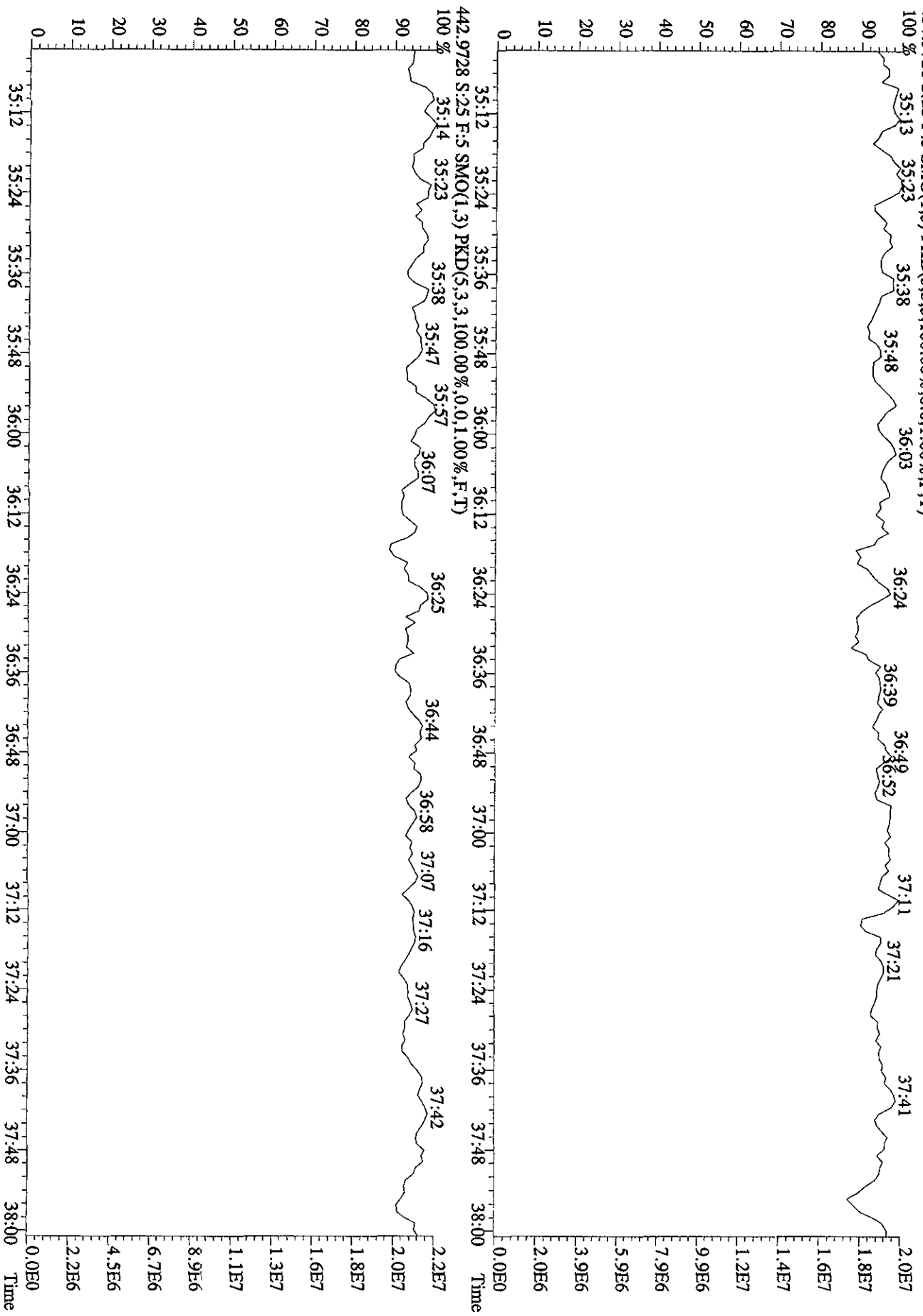




File: 27SE101D5 #1-203 Acq: 28-SEP-2010 02:39:37 GC EI + Voltage SIR 70SE  
 Sample# 25 Text: L7DRF-1-AA :G01230491-17 Exp: DIOXINRES



File: 27SE101D5 #1-196 Acq: 28-SEP-2010 02:39:37 GC EI+ Voltage SIR 70SE  
 Sample# 25 Text: L7DRF-1-AA : G0I230491-17 Exp: DIOXINRES  
 454.9728 S: 2.5 F: 5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: L7DRH-1-AA Sample text: L7DRH-1-AA :G0I230491-19  
 Run #16 Filename: 27SE101D5 S: 26 I: 1 Results: 27se101d5to9os  
 Acquired: 28-SEP-10 03:22:34 Processed: 28-SEP-10 09:23:00  
 Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5  
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 Sample

OS  
09-2A-10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	441553000	0.81 y	17:43	-	252.725	-	-	n
13C-2,3,7,8-TCDF	683023000	0.81 y	17:13	1.56	3958.534	1.779	99.0	n
2,3,7,8-TCDF	15537350	0.75 y	17:14	0.98	<del>92.494</del>	0.696	-	n
Total TCDF	75509339	0.68 y	14:47	0.98	<del>449.509</del> 448.079	0.696	-	n
13C-2,3,7,8-TCDD	391824000	0.81 y	17:55	0.92	3854.434	2.710	96.4	n
2,3,7,8-TCDD	165437	0.47 n	17:56	1.03	1.637 J,Q	1.008	-	y
Total TCDD	3698484	0.85 y	15:18	1.03	<del>36.598</del> 33.22	1.008	-	y
37Cl-2,3,7,8-TCDD	210774000	1.00 y	17:57	1.23	1754.686	1.758	109.7	n
13C-1,2,3,7,8-PeCDF	468347000	1.59 y	22:16	1.05	4030.873	2.172	100.8	n
1,2,3,7,8-PeCDF	9002090	1.66 y	22:17	1.09	70.396 J	1.673	-	y
2,3,4,7,8-PeCDF	2886660	1.45 y	23:37	1.02	24.226 J	1.795	-	n
Total F2 PeCDF	35039401	1.91 n	20:43	1.05	282.052	1.732	-	y
Total F1 PeCDF	1294575	0.60 n	15:17	1.05	<del>10.481</del> 4.78 286.832 } 267.85 9/30/w vva	0.850	-	n
13C-1,2,3,7,8-PeCDD	259675300	1.67 y	24:18	0.56	4194.194	0.929	104.9	n
1,2,3,7,8-PeCDD	324527	1.65 y	24:21	1.07	4.670 J	1.557	-	n
Total PeCDD	2492635	1.33 y	21:00	1.07	<del>35.873</del> 20.10	1.557	-	n
13C-1,2,3,7,8,9-HxCDD	402489000	1.28 y	30:46	-	245.255	-	-	n
13C-1,2,3,4,7,8-HxCDF	301615000	0.53 y	29:27	0.99	3025.195	2.940	75.6	n
1,2,3,4,7,8-HxCDF	10504540	1.32 y	29:28	1.26	110.481 -	2.095	-	y
1,2,3,6,7,8-HxCDF	10511820	1.30 y	29:36	1.53	91.049 J	1.725	-	y
2,3,4,6,7,8-HxCDF	2439940	1.25 y	30:14	1.41	22.993 J	1.877	-	y
1,2,3,7,8,9-HxCDF	2057305	1.36 y	30:57	1.40	19.543 J	1.892	-	n
Total HxCDF	54859405	1.18 y	27:50	1.40	<del>522.274</del> 520.474	1.888	-	y
13C-1,2,3,6,7,8-HxCDD	233278000	1.29 y	30:28	0.74	3135.078	0.918	78.4	n
1,2,3,4,7,8-HxCDD	183755	1.90 n	30:23	1.12	2.814 J,Q	1.096	-	n
1,2,3,6,7,8-HxCDD	348481	1.01 n	30:29	1.14	5.236 J,Q	1.075	-	n
1,2,3,7,8,9-HxCDD	679480	1.15 y	30:47	1.35	8.606 J	0.907	-	n
Total HxCDD	3398229	1.61 n	27:53	1.20	<del>47.771</del> 43.89	1.019	-	n
13C-1,2,3,4,6,7,8-HpCDF	287511700	0.46 y	32:22	0.96	2988.518	3.655	74.7	n
1,2,3,4,6,7,8-HpCDF	38683100	1.06 y	32:23	1.41	382.187 /	1.648	-	n
1,2,3,4,7,8,9-HpCDF	12892260	1.07 y	33:34	1.24	145.142 /	1.877	-	n
Total HpCDF	71370306	1.06 y	32:23	1.32	<del>725.652</del> 728.632	1.755	-	n
13C-1,2,3,4,6,7,8-HpCDD	246337000	1.07 y	33:14	0.71	3437.434	3.160	85.9	n
1,2,3,4,6,7,8-HpCDD	1620654	1.15 y	33:15	1.13	23.199 J	1.242	-	y
Total HpCDD	2909870	2.28 n	32:22	1.13	<del>41.654</del> 36	1.242	-	y
13C-OCDD	225056000	0.90 y	35:49	0.35	6341.760	2.907	79.3	n
OCDF	50161800	0.88 y	35:56	2.12	842.067 /	1.580	-	n

OCDD 1082176 0.95 y 35:50 1.37 28.056 J 1.915 - n

Run Text: L7DRH-1-AA

Sample text: L7DRH-1-AA :G0I230491-19

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:20  
 Run: 16 File: 27SE101D5 S:26 Acq:28-SEP-10 03:22:34  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 224.75 of which 46.25 named and 178.51 unnamed  
 Conc: 449.51 of which 92.49 named and 357.01 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:47	0.68 y	6.07	412796 606945	26.3 27.8	y	n
	2	15:07	0.73 y	2.18	154490 210997	9.6 8.7	y	n
	3	15:16	0.60 n	1.95	142178 238694	7.3 9.9	y	n
	4	15:33	0.75 y	96.32	6933900 9246230	427.1 410.3	y	n
	5	15:47	0.76 y	20.19	1461230 1929990	68.3 66.0	y	n
	6	16:05	0.68 y	14.08	956121 1409510	39.0 46.0	y	n
	7	16:19	0.75 y	43.09	3112120 4127010	187.5 173.5	y	n
	8	16:34	0.82 y	45.59	3453160 4204600	184.3 162.0	y	n
	9	16:41	0.72 y	19.00	1330820 1860190	76.6 74.1	y	n
	10	16:51	0.75 y	69.17	4986920 6632720	300.1 282.5	y	n
	11	17:04	0.71 y	5.50	383483 539700	16.0 21.0	y	n
2,3,7,8-TCDF	12	17:14	0.75 y	92.49	6647700 8889650	330.6 325.0	y	n
	13	17:31	0.68 y	<del>0.42</del>	28427 42053	2.2 2.3	n	n
	14	17:39	0.81 y	14.75	1111450 1366450	72.0 55.9	y	n
	15	17:53	0.70 y	6.48	446370 642168	22.5 21.5	y	n

16	18:08	0.65	n	4.19	306075	15.3	y	n
					470496	17.3	y	n
17	18:24	0.79	y	<del>0.46</del>	33951	2.7	n	n
					42731	1.5	n	n
18	19:04	0.81	y	7.04	527719	29.3	y	n
					655264	24.3	y	n
19	19:38	1.05	n	<del>0.32</del>	31829	1.8	n	n
					30453	1.8	n	n
20	19:53	1.93	n	<del>0.23</del>	41616	1.7	n	n
					21567	1.1	n	n

Run Text: L7DRH-1-AA

Sample text: L7DRH-1-AA :G0I230491-19

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:13  
 Run: 16 File: 27SE101D5 S:26 Acq:28-SEP-10 03:22:34  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 17.48 of which \* named and 17.48 unnamed  
 Conc: 34.96 of which \* named and 34.96 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:18	0.85	<del>0.69</del>	32049 37728	1.7 2.7	n	n
	2	15:42	1.00	2.34	134030 133433	7.4 6.9	y	n
	3	15:59	0.74	13.73	590451 797050	36.5 49.0	y	n
	4	16:49	0.76	3.14	137006 179849	10.2 9.6	y	n
	5	17:00	0.42	1.53	67349 161037	2.4 5.2	n	n
	6	17:13	2.50	1.37	195608 78126	11.7 4.3	y	n
	7	17:25	1.00	2.36	134850 134738	7.0 6.4	y	n
	8	17:51	1.40	5.21	417463 297632	12.3 18.5	y	n
	9	18:06	0.91	1.61	83363 91768	4.3 5.3	y	n
	10	18:19	1.10	1.82	114232 103714	7.4 5.0	y	n
	11	18:27	0.75	<del>0.40</del>	17179 22806	1.2 1.7	n	n
	12	18:33	0.82	<del>0.41</del>	18619 22806	1.2 1.7	n	n
	13	18:55	0.97	<del>0.37</del>	20192 20867	1.6 1.8	n	n

*See 9A*

Run Text: L7DRH-1-AA

Sample text: L7DRH-1-AA :G0I230491-19

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? yes #Hom:14  
 Run: 16 File: 27SE101D5 S:26 Acq:28-SEP-10 03:22:34  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 18.30 of which 0.82 named and 17.48 unnamed  
 Conc: 36.60 of which 1.64 named and 34.96 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:18	0.85 y	<del>0.69</del>	32049 37728	1.7 2.7	n n	n n
	2	15:42	1.00 n	2.34	134030 133433	7.4 6.9	y y	n n
	3	15:59	0.74 y	13.73	590451 797050	36.5 49.0	y y	n n
	4	16:49	0.76 y	3.14	137006 179849	10.2 9.6	y y	n n
	5	17:00	0.42 n	<del>1.53</del>	67349 161037	<u>2.4</u> 5.2	n y	n n
	6	17:13	2.50 n	1.37	195608 78126	11.7 4.3	y y	n n
	7	17:25	1.00 n	2.36	134850 134738	7.0 6.4	y y	n n
	8	17:51	1.10 n	5.21	327746 297631	12.1 18.5	y y	y n
2,3,7,8-TCDD	9	17:56	0.47 n	1.64	71970 154011	4.8 9.2	y y	y n
	10	18:06	0.91 n	1.61	83363 91767	4.3 5.3	y y	n n
	11	18:19	1.10 n	1.82	114232 103714	7.4 5.0	y y	n n
	12	18:27	0.75 y	<del>0.40</del>	17179 22806	1.2 1.7	n n	n n
	13	18:33	0.82 y	<del>0.41</del>	18619 22806	1.2 1.7	n n	n n
	14	18:55	0.97 n	<del>0.37</del>	20192 20867	1.6 1.8	n n	n n

2A



Run Text: L7DRH-1-AA

Sample text: L7DRH-1-AA :G0I230491-19

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:12  
 Run: 16 File: 27SE101D5 S:26 Acq:28-SEP-10 03:22:34  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 137.63 of which 48.79 named and 88.84 unnamed  
 Conc: 275.25 of which 97.57 named and 177.68 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:43	1.91 n	7.52	695362 364494	20.9 10.6	y	n
	2	20:56	1.68 y	61.52	4762910 2835630	112.6 61.7	y	n
	3	21:10	1.45 y	6.77	495541 340981	12.3 8.0	y	n
	4	21:26	1.71 y	10.17	791996 464510	23.1 11.5	y	n
	5	21:49	1.64 y	29.60	2273540 1382560	44.3 23.5	y	n
1,2,3,7,8-PeCDF	6	22:17	1.50 y	73.35	5620370 3759190	167.9 88.6	y	n
	7	22:34	2.31 n	5.52	617851 267210	15.3 7.1	y	n
	8	22:51	1.65 y	25.32	1947310 1180010	40.7 24.0	y	n
2,3,4,7,8-PeCDF	9	23:37	1.45 y	24.23	1709560 1177100	45.8 28.6	y	n
	10	23:58	1.05 n	<del>18.98</del>	1425300 1360760	23.1 19.4	y	n
	11	24:28	1.38 y	4.66	333381 242309	9.8 7.2	y	n
	12	25:37	1.55 y	7.61	571932 368181	11.7 7.2	y	n

*See 3A*

Run Text: L7DRH-1-AA

Sample text: L7DRH-1-AA :G0I230491-19

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? yes #Hom:13  
 Run: 16 File: 27SE101D5 S:26 Acq:28-SEP-10 03:22:34  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 141.03 of which 47.31 named and 93.71 unnamed  
 Conc: 282.05 of which 94.62 named and 187.43 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:43	1.91	n	7.52	695362	20.9	y n
						364494	10.6	y n
	2	20:56	1.68	y	61.52	4762910	112.6	y n
						2835630	61.7	y n
	3	21:10	1.45	y	6.77	495540	12.3	y n
						340981	8.0	y n
	4	21:26	1.71	y	10.17	791996	23.1	y n
						464511	11.5	y n
	5	21:49	1.64	y	29.60	2273540	44.3	y n
						1382560	23.5	y n
	6	22:09	1.50	y	9.75	721825	25.8	y n
						482325	12.7	y y
1,2,3,7,8-PeCDF	7	22:17	1.66	y	70.40	5620370	167.9	y n
						3381720	89.2	y y
	8	22:34	2.31	n	5.52	617850	15.3	y n
						267212	7.1	y n
	9	22:51	1.65	y	25.32	1947310	40.7	y n
						1180020	24.0	y n
2,3,4,7,8-PeCDF	10	23:37	1.45	y	24.23	1709560	45.8	y n
						1177100	28.6	y n
	11	23:58	1.05	n	18.98	1425300	23.1	y n
						1360760	19.4	y n
	12	24:28	1.38	y	4.66	333381	9.8	y n
						242310	7.2	y n
	13	25:37	1.55	y	7.61	571932	11.7	y n
						368181	7.2	y n

*artifact**SA*

Run Text: L7DRH-1-AA

Sample text: L7DRH-1-AA :G0I230491-19

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:5  
 Run: 16 File: 27SE101D5 S:26 Acq:28-SEP-10 03:22:34  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 5.24 of which \* named and 5.24 unnamed  
 Conc: 10.48 of which \* named and 10.48 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:17	0.60	n 2.65	199026 332692	19.3 25.9	y	n
	2	17:44	1.52	y 0.33	24298 15999	2.1 1.4	n	n
	3	18:56	0.56	n 2.64	198100 356497	13.9 19.1	y	n
	4	19:21	2.02	n 4.78	467817 231357	33.2 10.4	y	n
	5	19:36	0.35	n 0.09	6675 18858	0.8 1.3	n	n

Run Text: L7DRH-1-AA

Sample text: L7DRH-1-AA :G0I230491-19

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:17  
 Run: 16 File: 27SE101D5 S:26 Acq:28-SEP-10 03:22:34  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 17.94 of which 2.34 named and 15.60 unnamed  
 Conc: 35.87 of which 4.67 named and 31.20 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	21:00	1.33	<del>0.25</del>	9837 7374	1.3 1.0	n n	n n
	2	21:06	2.16	2.19	129267 59716	6.0 5.0	y y	n n
	3	21:22	0.43	<del>0.12</del>	5018 11689	0.4 1.9	n n	n n
	4	21:51	1.32	<del>0.49</del>	20764 15776	1.3 2.1	n n	n n
	5	22:03	1.79	<del>0.40</del>	19552 10899	2.1 1.7	n n	n n
	6	22:18	2.63	3.42	244489 93081	9.5 6.2	y y	n n
	7	22:32	2.46	<del>0.91</del>	61172 24903	3.3 2.1	y n	n n
	8	22:53	1.76	9.82	434731 247516	20.2 15.6	y y	n n
	9	23:11	0.88	<del>0.97</del>	41006 46623	2.0 3.4	n y	n n
	10	23:19	2.20	<del>1.02</del>	60773 27686	2.9 1.9	n n	n n
	11	23:37	6.43	<del>0.34</del>	60239 9369	4.5 1.2	y n	n n
	12	23:45	1.15	<del>0.62</del>	26018 22628	1.9 2.9	n n	n n
	13	24:01	2.74	<del>9.02</del>	673203 245816	28.9 16.1	y y	n n
1,2,3,7,8-PeCDD	14	24:21	1.65	4.67	202037 122490	9.5 10.9	y y	n n
	15	24:35	0.82	<del>0.61</del>	25769 31563	2.4 2.1	n n	n n

20.10

artifact

16	24:42	0.92	n	<del>0.59</del>	29085	2.0	n	n
					31563	2.1	n	n
17	25:19	0.36	n	<del>0.34</del>	14269	1.1	n	n
					39280	2.9	n	n

Run Text: L7DRH-1-AA

Sample text: L7DRH-1-AA :G0I230491-19

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:13  
 Run: 16 File: 27SE101D5 S:26 Acq:28-SEP-10 03:22:34  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 260.84 of which 155.23 named and 105.61 unnamed  
 Conc: 521.69 of which 310.47 named and 211.22 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	27:50	1.18 y	33.62	1919960 1626360	31.9 37.3	y	n
	2	28:09	1.24 y	65.32	3817880 3072280	69.0 70.9	y	n
	3	28:26	0.94 n	2.35	137255 145468	3.5 3.2	y	n
	4	28:41	1.19 y	10.54	603739 508399	13.9 13.5	y	n
	5	28:56	1.21 y	11.64	672179 555624	15.5 15.8	y	n
1,2,3,4,7,8-HxCDF	6	29:28	1.30 y	143.67	7732940 5927710	177.6 183.8	y	n
1,2,3,6,7,8-HxCDF	7	29:36	1.30 y	90.22	5890190 4526350	151.9 164.8	y	n
	8	29:44	1.29 y	34.93	2076960 1607140	50.7 53.3	y	n
	9	29:59	1.48 n	27.17	1895960 1279380	35.9 31.6	y	n
2,3,4,6,7,8-HxCDF	10	30:09	1.24 y	57.03	3347010 2704420	58.1 63.4	y	n
1,2,3,7,8,9-HxCDF	11	30:57	1.36 y	19.54	1187390 869915	37.4 41.1	y	n
	12	31:02	1.14 y	24.35	1366050 1202450	39.9 43.9	y	n
	13	31:47	0.99 n	1.30	75979 76459	2.5 1.8	n	n

*Handwritten signature/initials*

Run Text: L7DRH-1-AA

Sample text: L7DRH-1-AA :G0I230491-19

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? yes #Hom:15  
 Run: 16 File: 27SE101D5 S:26 Acq:28-SEP-10 03:22:34  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 261.14 of which 122.03 named and 139.10 unnamed  
 Conc: 522.27 of which 244.06 named and 278.21 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	27:50	1.18 y	33.62	1919960 1626360	31.9 37.3	y	n
	2	28:09	1.24 y	65.32	3817880 3072280	69.0 70.9	y	n
	3	28:26	0.94 n	2.35	137256 145468	3.5 3.2	y	n
	4	28:41	1.19 y	10.54	603739 508399	13.9 13.5	y	n
	5	28:56	1.21 y	11.64	672179 555623	15.5 15.8	y	n
	6	29:26	1.25 y	31.08	1820200 1457640	78.0 82.9	y	y
1,2,3,4,7,8-HxCDF	7	29:28	1.32 y	110.48	5981280 4523260	178.2 184.5	y	y
1,2,3,6,7,8-HxCDF	8	29:36	1.30 y	91.05	5939780 4572040	152.5 165.6	y	y
	9	29:44	1.32 y	35.34	2121400 1606500	51.3 54.1	y	y
	10	29:59	1.48 n	27.17	1895960 1279380	35.9 31.6	y	n
	11	30:09	1.20 y	35.50	2043720 1700410	58.7 64.1	y	y
2,3,4,6,7,8-HxCDF	12	30:14	1.25 y	22.99	1354370 1085570	37.2 43.4	y	y
1,2,3,7,8,9-HxCDF	13	30:57	1.36 y	19.54	1187390 869915	37.4 41.1	y	n
	14	31:02	1.14 y	24.35	1366050 1202450	39.9 43.9	y	n
	15	31:47	0.99 n	1.30	75979 76459	2.5 1.8	n	n

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Run Text: L7DRH-1-AA

Sample text: L7DRH-1-AA :G0I230491-19

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:11  
 Run: 16 File: 27SE101D5 S:26 Acq:28-SEP-10 03:22:34  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 23.89 of which 8.33 named and 15.56 unnamed  
 Conc: 47.77 of which 16.66 named and 31.12 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	27:53	1.61	<del>0.38</del>	19266 11970	1.6 1.4	n	n
	2	28:51	1.18	2.94	112040 94639	7.6 4.5	y	n
	3	29:30	1.32	14.83	593725 448559	32.1 27.5	y	n
	4	29:47	1.26	9.46	369999 294459	27.3 21.5	y	n
	5	29:56	0.60	<del>0.58</del>	22406 37243	1.6 2.9	n	n
	6	30:13	6.61	<del>0.66</del>	137583 20824	7.5 1.9	y	n
1,2,3,4,7,8-HxCDD	7	30:23	1.90	2.81	155524 82034	10.4 8.0	y	n
1,2,3,6,7,8-HxCDD	8	30:29	1.01	5.24	192909 190676	14.6 15.4	y	n
1,2,3,7,8,9-HxCDD	9	30:47	1.15	8.61	363711 315769	25.7 23.1	y	n
	10	30:56	3.95	<del>0.83</del>	103116 26136	7.6 1.4	y	n
	11	31:41	1.08	<del>1.43</del>	52293 48320	4.9 4.0	y	n

43.81



Run Text: L7DRH-1-AA

Sample text: L7DRH-1-AA :G0I230491-19

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:6  
Run: 16 File: 27SE101D5 S:26 Acq:28-SEP-10 03:22:34  
Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d5

Amount: 367.83 of which 263.66 named and 104.16 unnamed  
Conc: 735.65 of which 527.33 named and 208.32 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	32:23	1.06	y	382.19	19878200 18804900	779.3 643.1	y	n
	2	32:35	1.06	y	79.15	3866190 3654220	143.5 118.1	y	n
	3	32:43	1.12	y	122.15	6134970 5471940	222.4 165.9	y	n
	4	33:17	0.92	y	<del>4.24</del>	192851 210263	6.6 7.0	y	n
1,2,3,4,7,8,9-HpCDF	5	33:34	1.07	y	145.14	6658980 6233280	241.7 195.1	y	n
	6	34:47	0.87	n	<del>2.78</del>	134849 155819	5.3 5.5	y	n

728.63

Run Text: L7DRH-1-AA

Sample text: L7DRH-1-AA :G0I230491-19

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:5  
 Run: 16 File: 27SE101D5 S:26 Acq:28-SEP-10 03:22:34  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 23.20 of which 13.97 named and 9.23 unnamed  
 Conc: 46.39 of which 27.94 named and 18.45 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:22	2.28 n	0.98	76730 33697	4.9 2.7	y n	n n
	2	32:39	0.90 y	12.80	422195 471639	29.8 28.0	y y	n n
1,2,3,4,6,7,8-HpCDD	3	33:15	1.14 y	27.94	1038370 913281	57.9 47.4	y y	n n
	4	33:35	5.13 n	0.53	93406 18219	3.8 1.6	y n	n n
	5	34:47	1.26 n	4.14	178705 141899	13.5 9.7	y y	n n

*See  
 AA*

Run Text: L7DRH-1-AA

Sample text: L7DRH-1-AA :G0I230491-19

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? yes #Hom:5  
 Run: 16 File: 27SE101D5 S:26 Acq:28-SEP-10 03:22:34  
 Tables: Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27se101d7

Amount: 20.83 of which 11.60 named and 9.23 unnamed  
 Conc: 41.65 of which 23.20 named and 18.45 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	32:22	2.28	n 0.98	76730 33697	4.9 2.7	y n	n n
	2	32:39	0.90	y 12.80	422195 471639	29.8 28.0	y Y	n n
1,2,3,4,6,7,8-HpCDD	3	33:15	1.15	y 23.20	865842 754812	59.0 47.8	y Y	Y Y
	4	33:35	5.13	n 0.53	93406 18219	3.8 1.6	y n	n n
	5	34:47	1.26	n 4.14	178705 141899	13.5 9.7	y y	n n

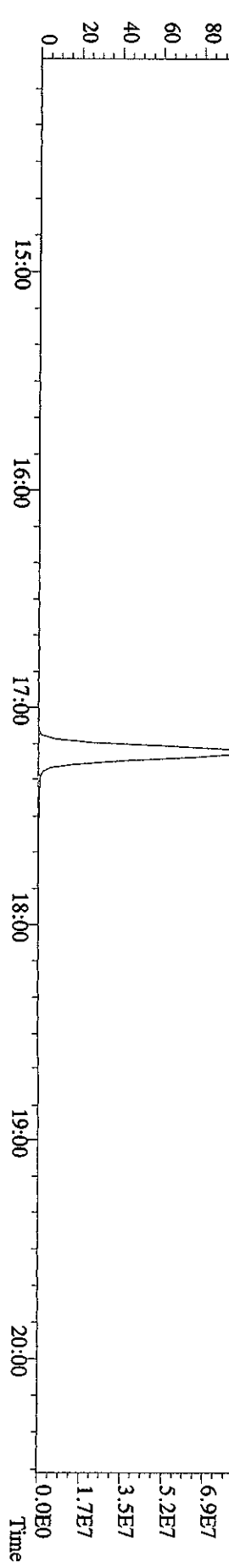
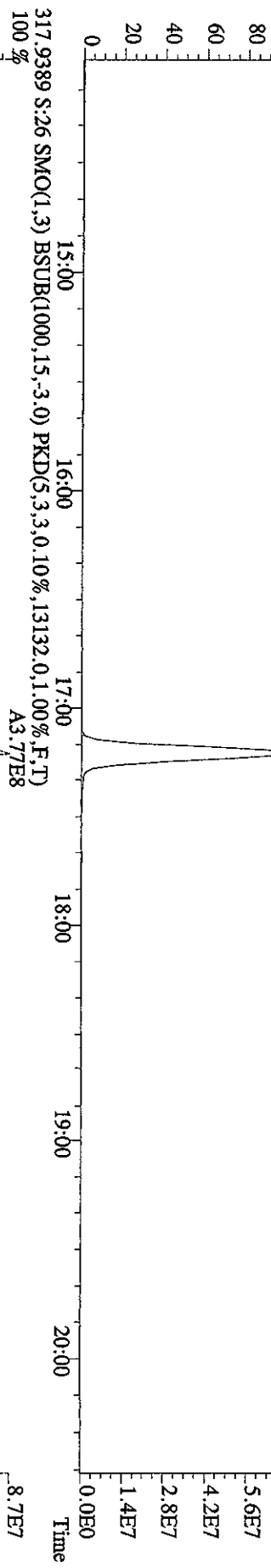
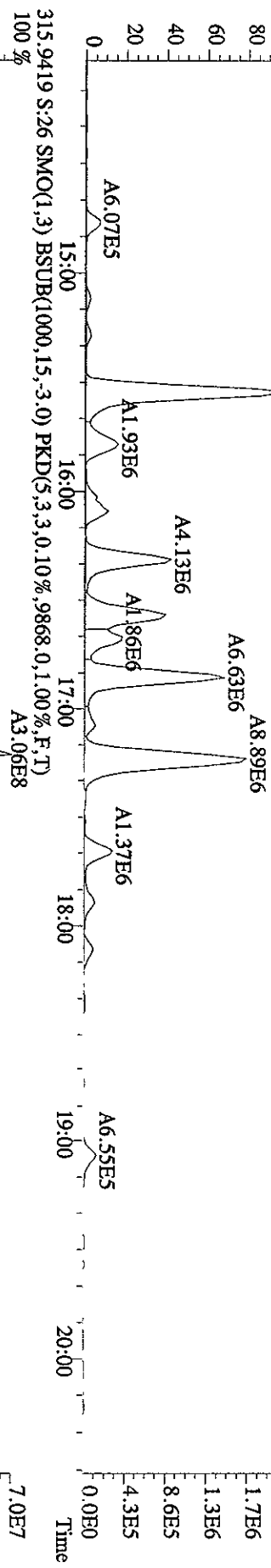
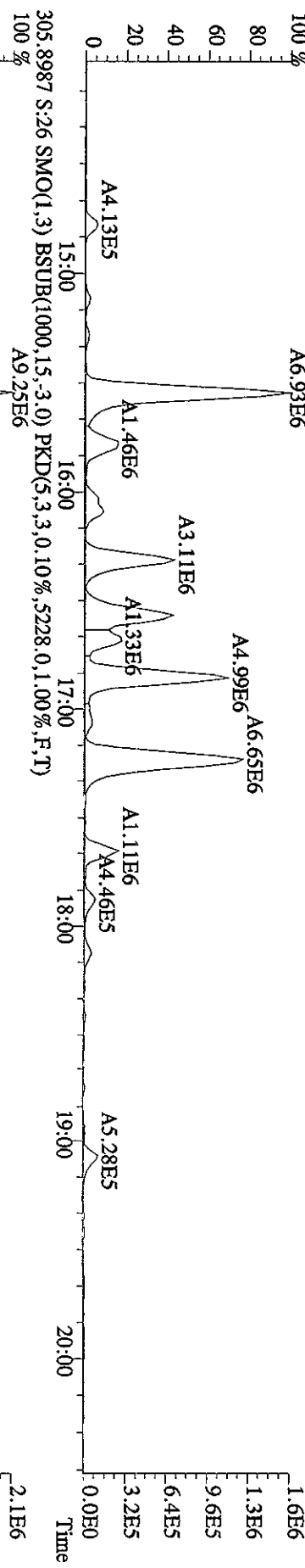
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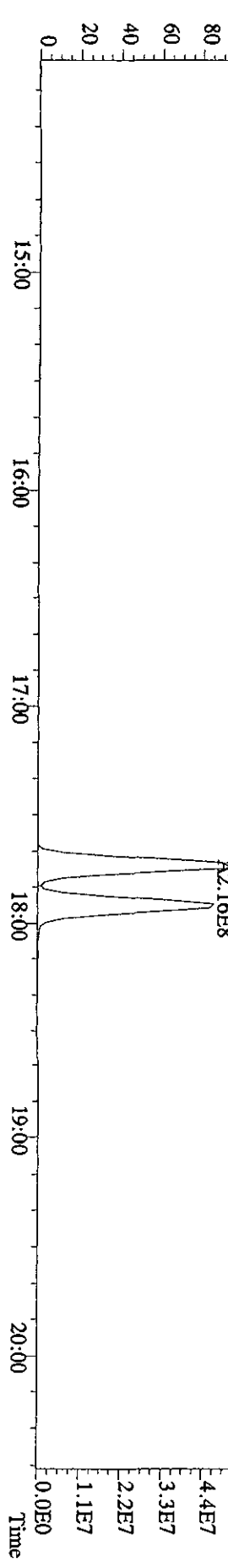
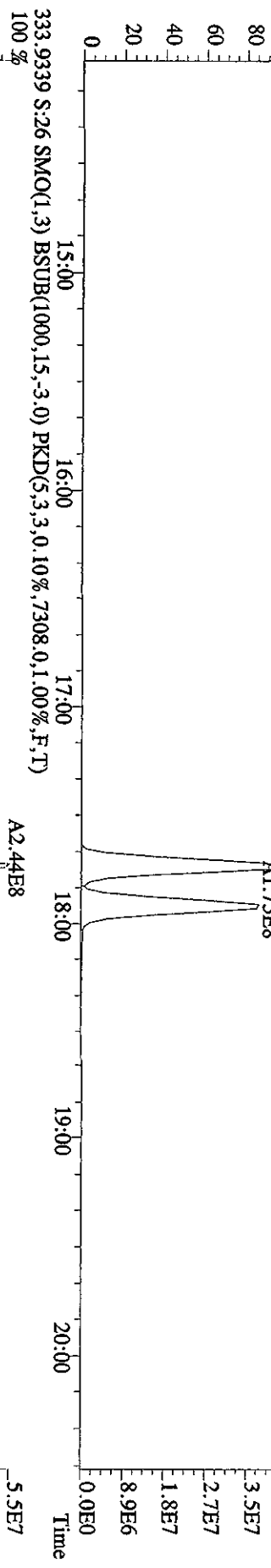
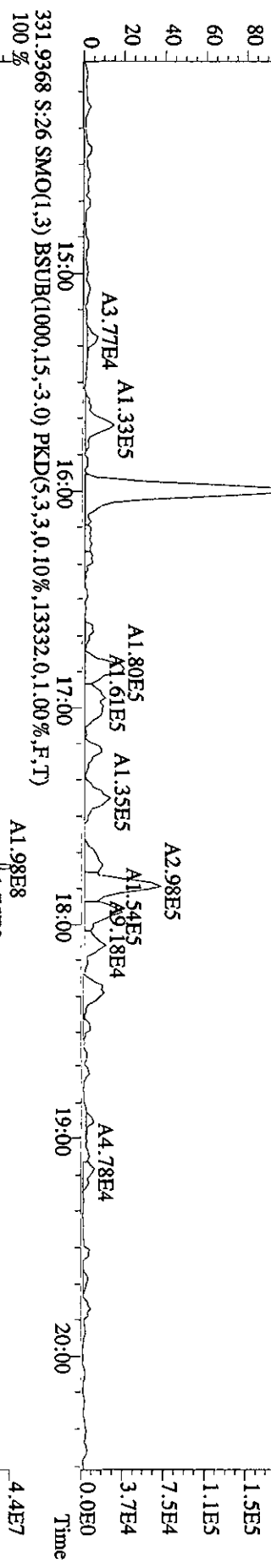
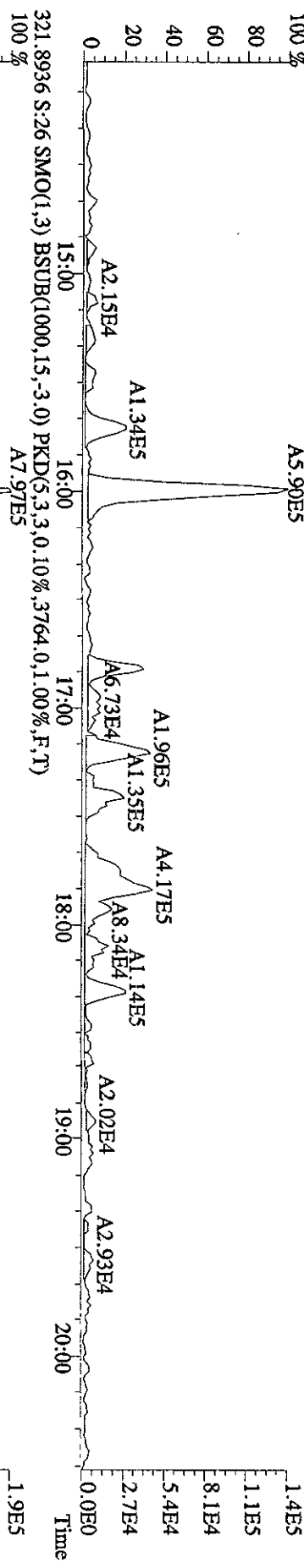
Run text: L7DRH-1-AA Sample text: L7DRH-1-AA :G0I230491-19  
 Run #16 Filename: 27SE101D5 S: 26 I: 1 Results: 27SE101D5TO9  
 Acquired: 28-SEP-10 03:22:34 Processed: 28-SEP-10 09:23:00  
 Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5  
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000Sample

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	441553000	0.81 y	17:43	-	252.72	-	-	n
13C-2,3,7,8-TCDF	683023000	0.81 y	17:13	1.56	3958.53	1.78	99.0	n
2,3,7,8-TCDF	15537350	0.75 y	17:14	0.98	92.49	0.70	-	n
Total TCDF	75509339	0.68 y	14:47	0.98	449.51	0.70	-	n
13C-2,3,7,8-TCDD	391824000	0.81 y	17:55	0.92	3854.43	2.71	96.4	n
2,3,7,8-TCDD	*	* n	NotFnd	1.03	*	1.01	-	n
Total TCDD	3533051	0.85 y	15:18	1.03	34.96	1.01	-	n
37Cl-2,3,7,8-TCDD	210774000	1.00 y	17:57	1.23	1754.69	1.76	109.7	n
13C-1,2,3,7,8-PeCDF	468347000	1.59 y	22:16	1.05	4030.87	2.17	100.8	n
1,2,3,7,8-PeCDF	9379560	1.50 y	22:17	1.09	73.35	1.67	-	n
2,3,4,7,8-PeCDF	2886660	1.45 y	23:37	1.02	24.23	1.80	-	n
Total F2 PeCDF	34212705	1.91 n	20:43	1.05	275.25	1.73	-	n
Total F1 PeCDF	1294575	0.60 n	15:17	1.05	10.48	0.85	-	n
13C-1,2,3,7,8-PeCDD	259675300	1.67 y	24:18	0.56	4194.19	0.93	104.9	n
1,2,3,7,8-PeCDD	324527	1.65 y	24:21	1.07	4.67	1.56	-	n
Total PeCDD	2492635	1.33 y	21:00	1.07	35.87	1.56	-	n
13C-1,2,3,7,8,9-HxCDD	402489000	1.28 y	30:46	-	245.26	-	-	n
13C-1,2,3,4,7,8-HxCDF	301615000	0.53 y	29:27	0.99	3025.19	2.94	75.6	n
1,2,3,4,7,8-HxCDF	13660650	1.30 y	29:28	1.26	143.67	2.09	-	n
1,2,3,6,7,8-HxCDF	10416540	1.30 y	29:36	1.53	90.22	1.73	-	n
2,3,4,6,7,8-HxCDF	6051430	1.24 y	30:09	1.41	57.03	1.88	-	n
1,2,3,7,8,9-HxCDF	2057305	1.36 y	30:57	1.40	19.54	1.89	-	n
Total HxCDF	54465954	1.18 y	27:50	1.40	521.69	1.89	-	n
13C-1,2,3,6,7,8-HxCDD	233278000	1.29 y	30:28	0.74	3135.08	0.92	78.4	n
1,2,3,4,7,8-HxCDD	183755	1.90 n	30:23	1.12	2.81	1.10	-	n
1,2,3,6,7,8-HxCDD	348481	1.01 n	30:29	1.14	5.24	1.08	-	n
1,2,3,7,8,9-HxCDD	679480	1.15 y	30:47	1.35	8.61	0.91	-	n
Total HxCDD	3398229	1.61 n	27:53	1.20	47.77	1.02	-	n
13C-1,2,3,4,6,7,8-HpCDF	287511700	0.46 y	32:22	0.96	2988.52	3.65	74.7	n
1,2,3,4,6,7,8-HpCDF	38683100	1.06 y	32:23	1.41	382.19	1.65	-	n
1,2,3,4,7,8,9-HpCDF	12892260	1.07 y	33:34	1.24	145.14	1.88	-	n
Total HpCDF	71370306	1.06 y	32:23	1.32	735.65	1.76	-	n
13C-1,2,3,4,6,7,8-HpCDD	246337000	1.07 y	33:14	0.71	3437.43	3.16	85.9	n
1,2,3,4,6,7,8-HpCDD	1951651	1.14 y	33:15	1.13	27.94	1.24	-	n
Total HpCDD	3240867	2.28 n	32:22	1.13	46.39	1.24	-	n
13C-OCDD	225056000	0.90 y	35:49	0.35	6341.76	2.91	79.3	n
OCDF	50161800	0.88 y	35:56	2.12	842.07	1.58	-	n
OCDD	1082176	0.95 y	35:50	1.37	28.06	1.92	-	n

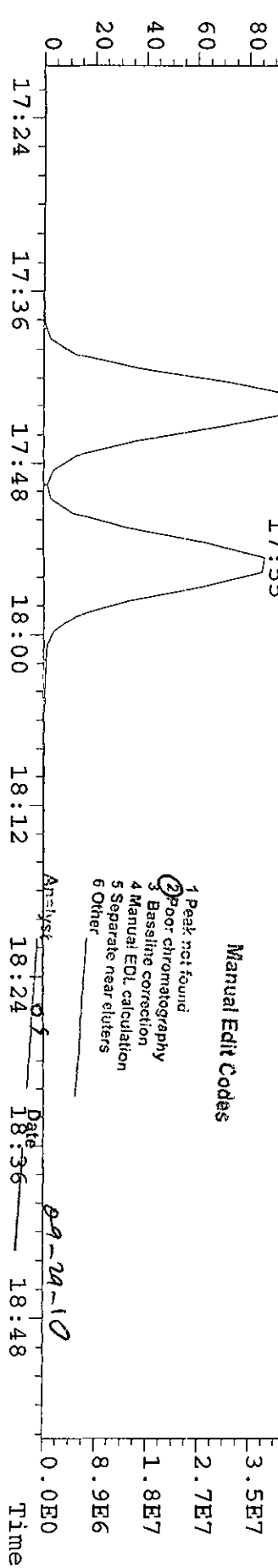
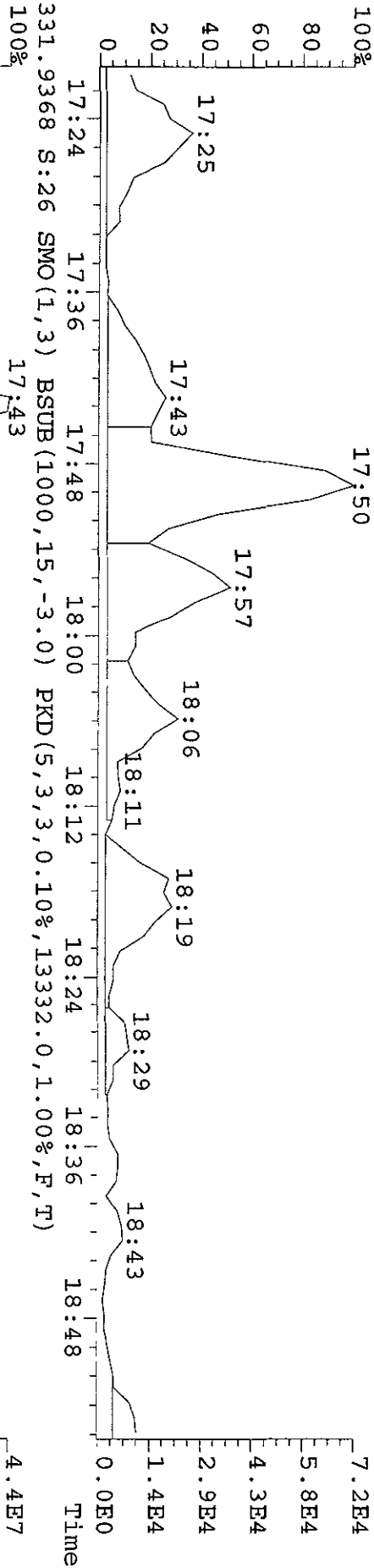
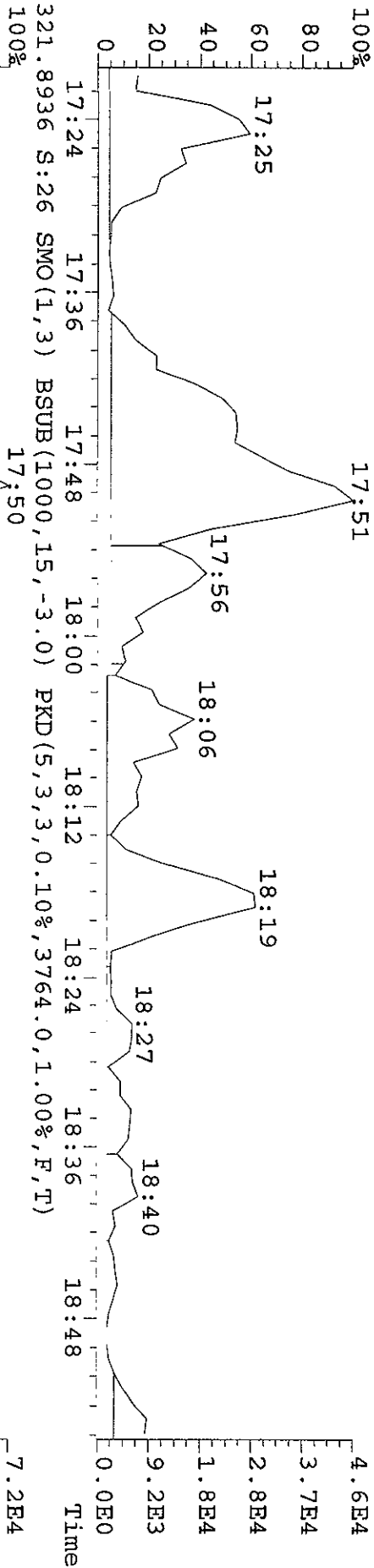
File:27SE101D5 #1-382 Acq:28-SEP-2010 03:22:34 GC EI + Voltage SIR 70SE  
 Sample#26 Text:L7DRH-1-AA :G01230491-19 Exp.:DIOXINRES  
 303.9016 S:26 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3744,0,1.00%,F,T)  
 100 % A6.93E6



File:27SE101D5 #1-382 Acq:28-SEP-2010 03:22:34 GC EI+ Voltage SIR 70SE  
 Sample#26 Text:L7DRH-1-AA :G0I230491-19 Exp:DIOXINRES  
 319.8965 S:26 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.3616,0.1,0.00%,F,T)  
 100%



File: 27SE101D5 #1-382 Acq: 28-SEP-2010 03:22:34 GC EI+ Voltage SIR 70SE  
 Sample#26 Text: L7DRH-1-AA : G01230491-19 Exp: DIOXINRES  
 319.8965 S:26 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3616.0,1.00%,F,T)

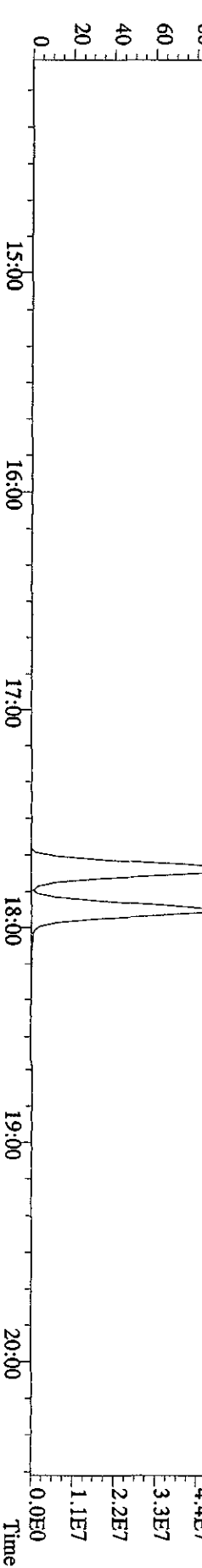
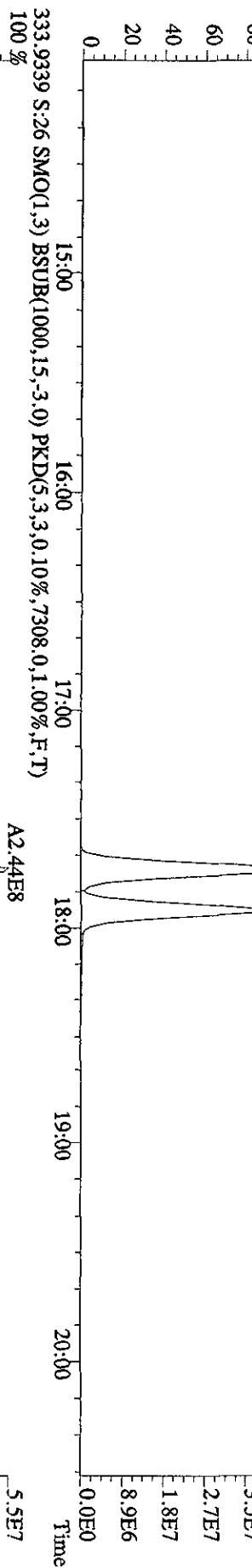
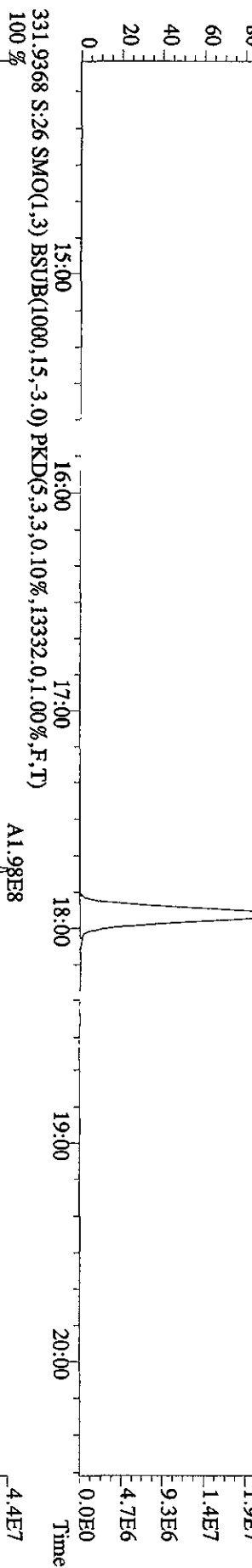
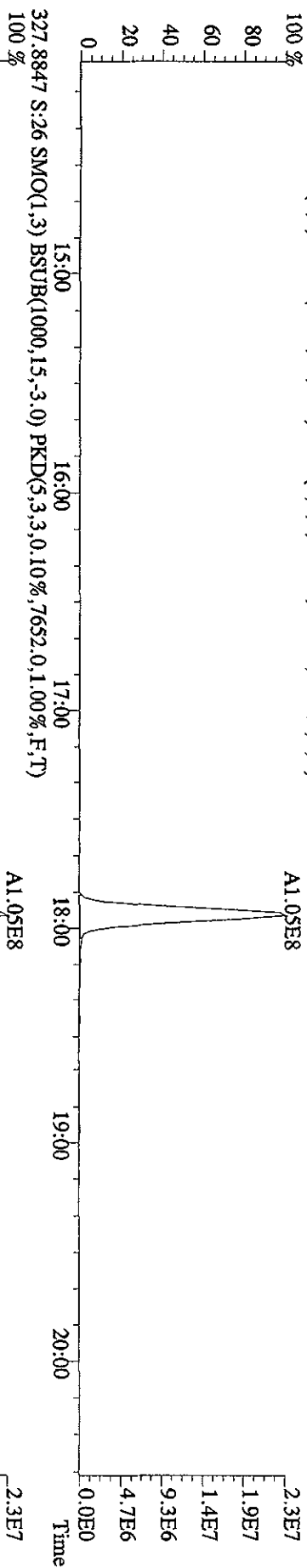


Manual Edit Codes

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

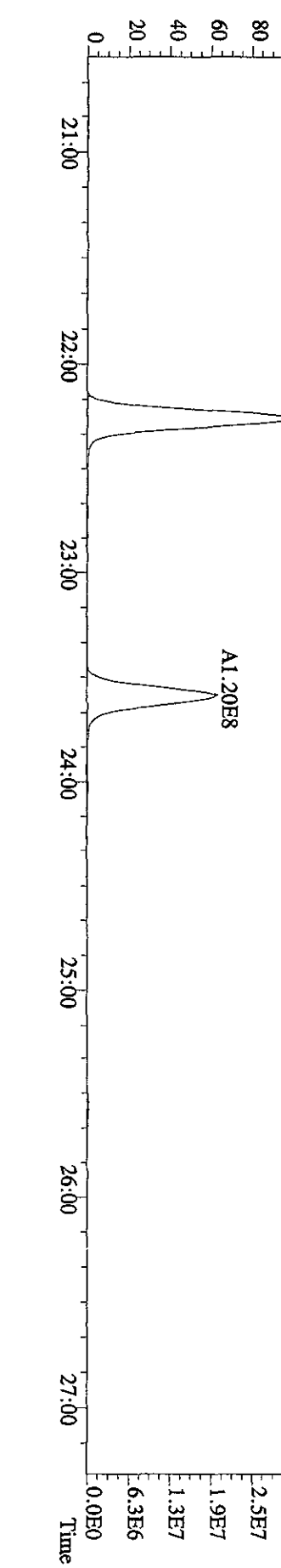
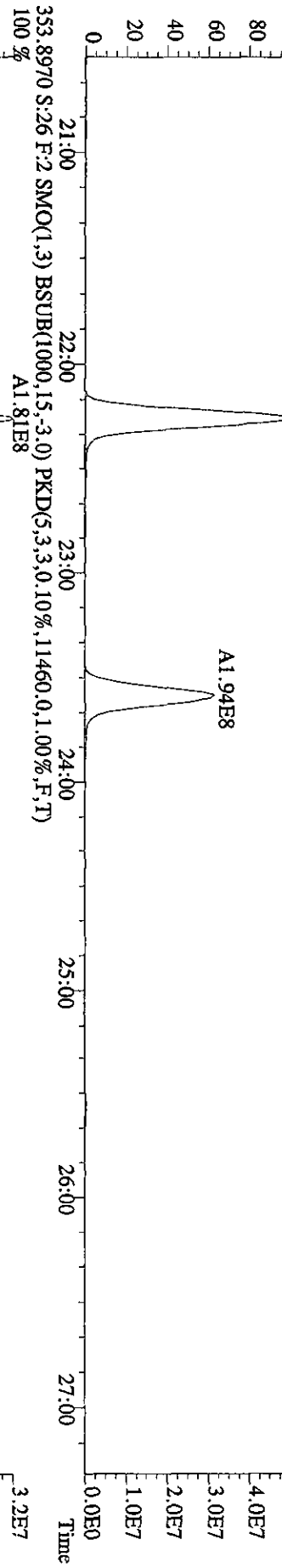
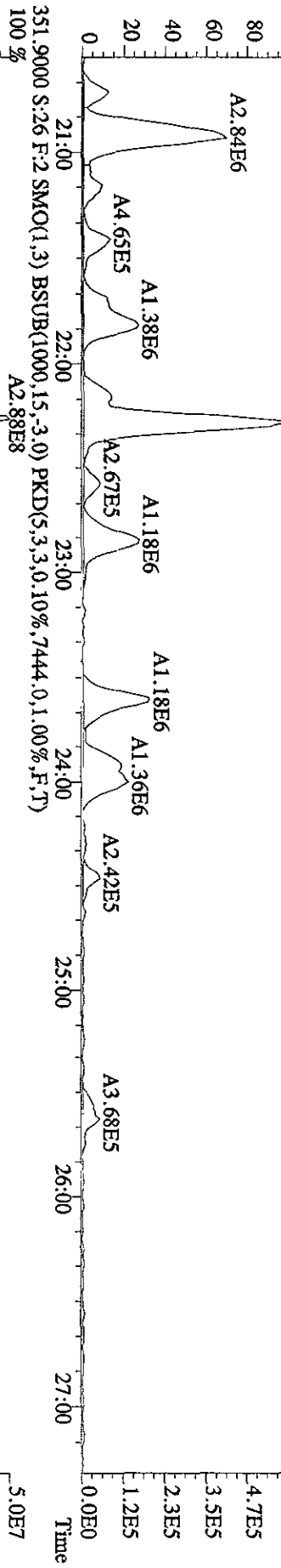
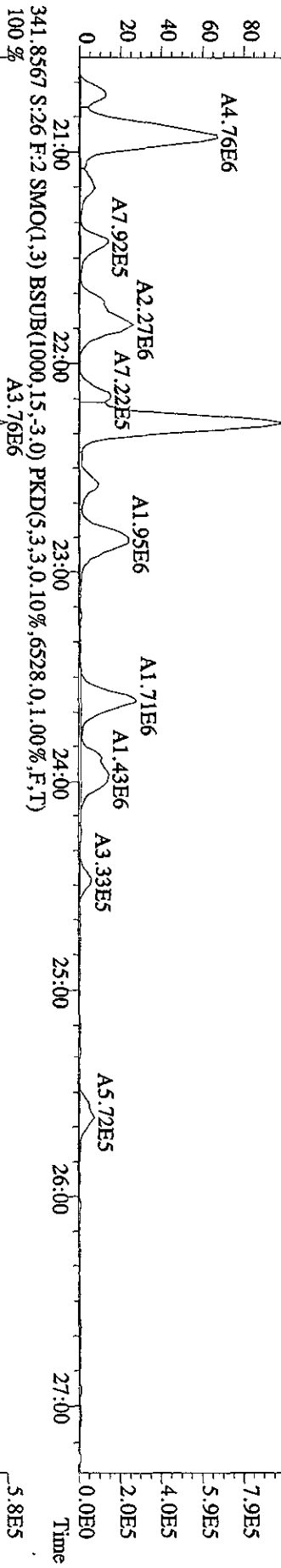
Analyst: 05 Date: 09-29-10  
 18:24 18:36 18:48

File: 27SE101D5 #1-382 Acq: 28-SEP-2010 03:22:34 GC EI+ Voltage SIR 70SE  
 Sample# 26 Text: L7DRH-1-AA : G01230491-19 Exp: DIOXINRES  
 327.8847 S: 26 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7652.0,1.00%,F,T)





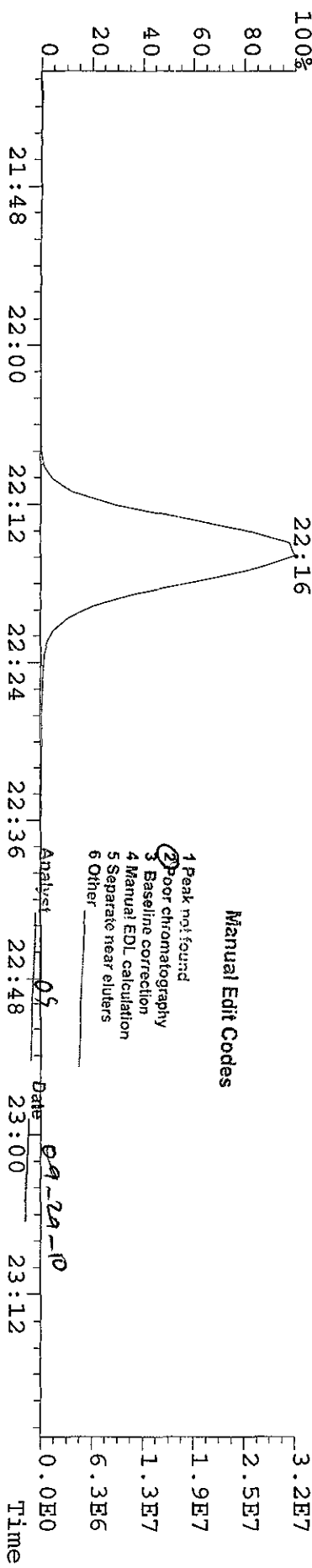
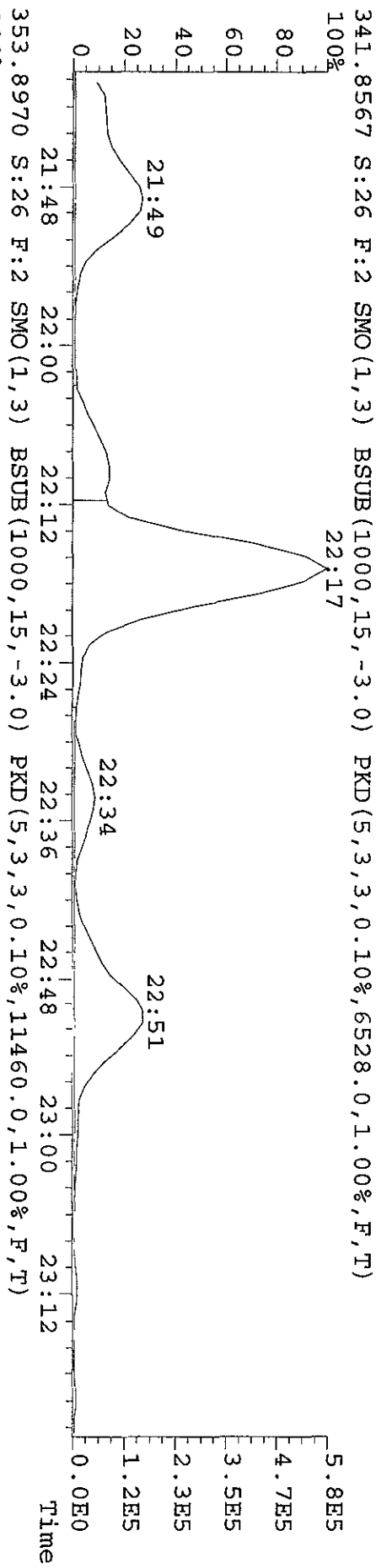
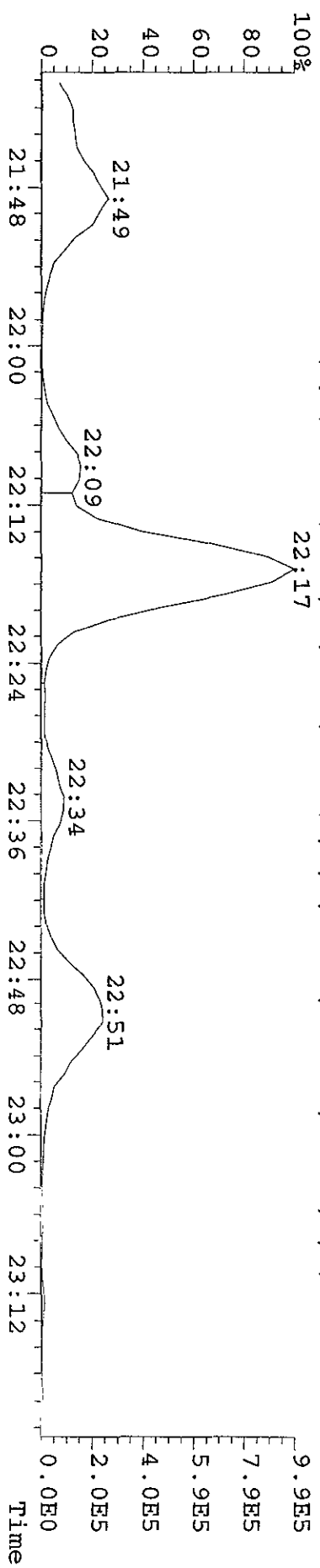
File: 27SE101D5 #1-422 Acq: 28-SEP-2010 03:22:34 GC EI+ Voltage SIR 70SE  
 Sample#26 Text: L7DRH-1-AA :G01230491-19 Exp: DIOXINRES  
 339.8597 S:26 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5872,0.1,00%,F,T)  
 100%



File: 27SE101D5 #1-422 Acq: 28-SEP-2010 03:22:34 GC EI+ Voltage SIR 70SE

Sample# 26 Text: L7DRH-1-AA : G0I230491-19 Exp: DIOXINRES

339.8597 S: 26 F: 2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5872.0,1.00%,F,T)



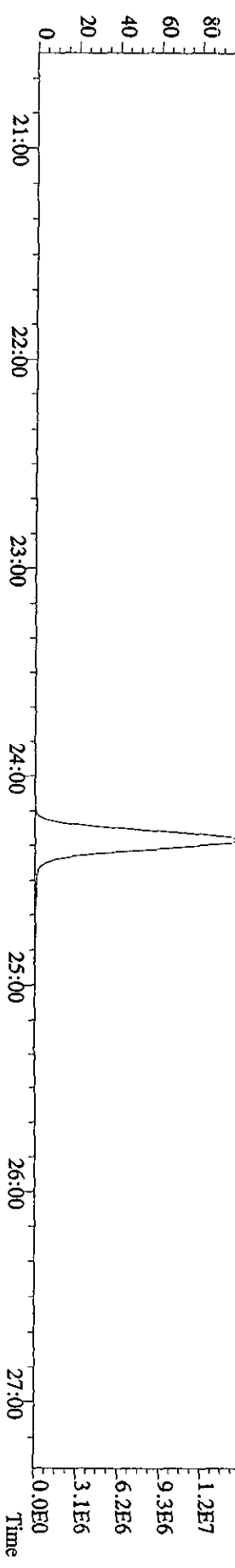
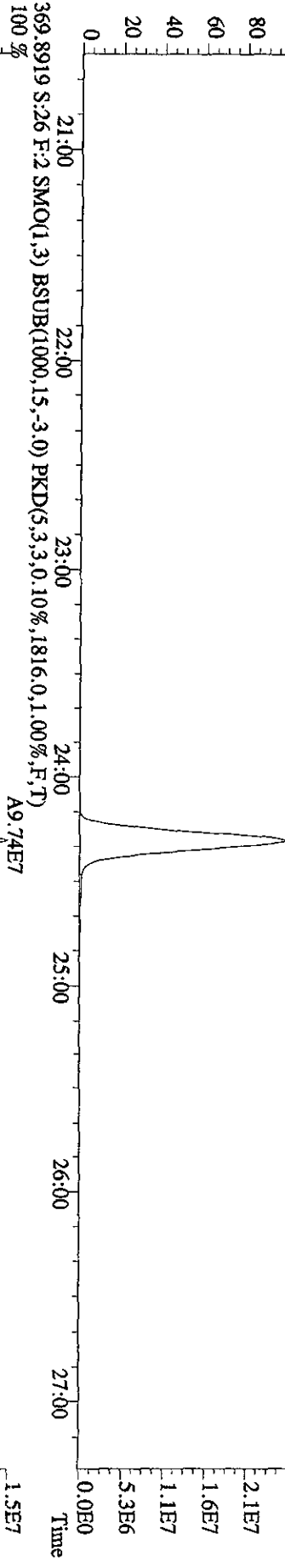
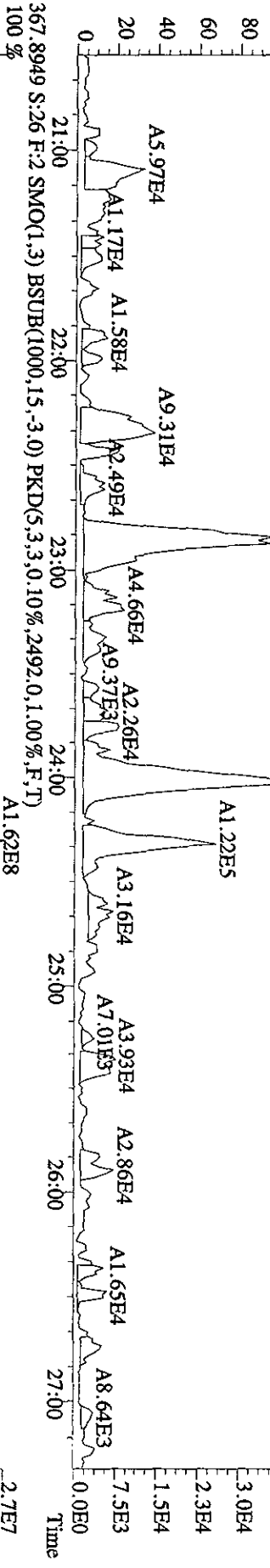
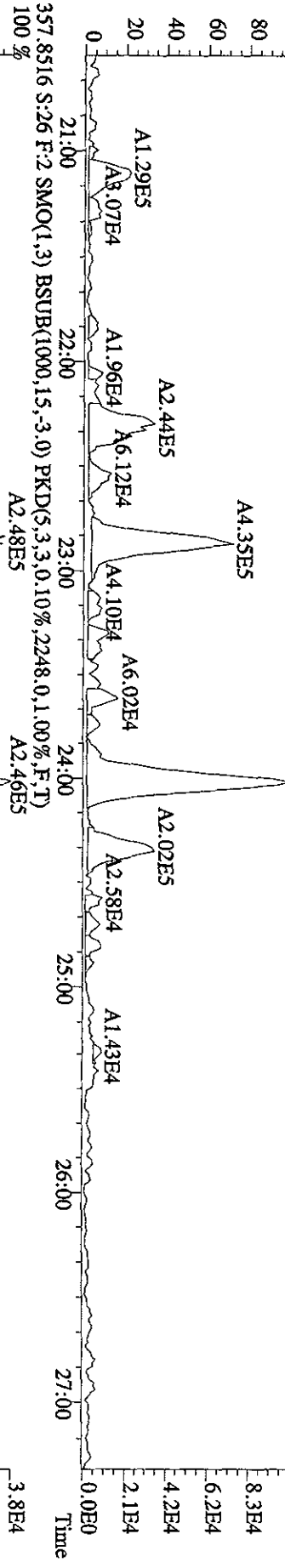
- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

Manual Edit Codes

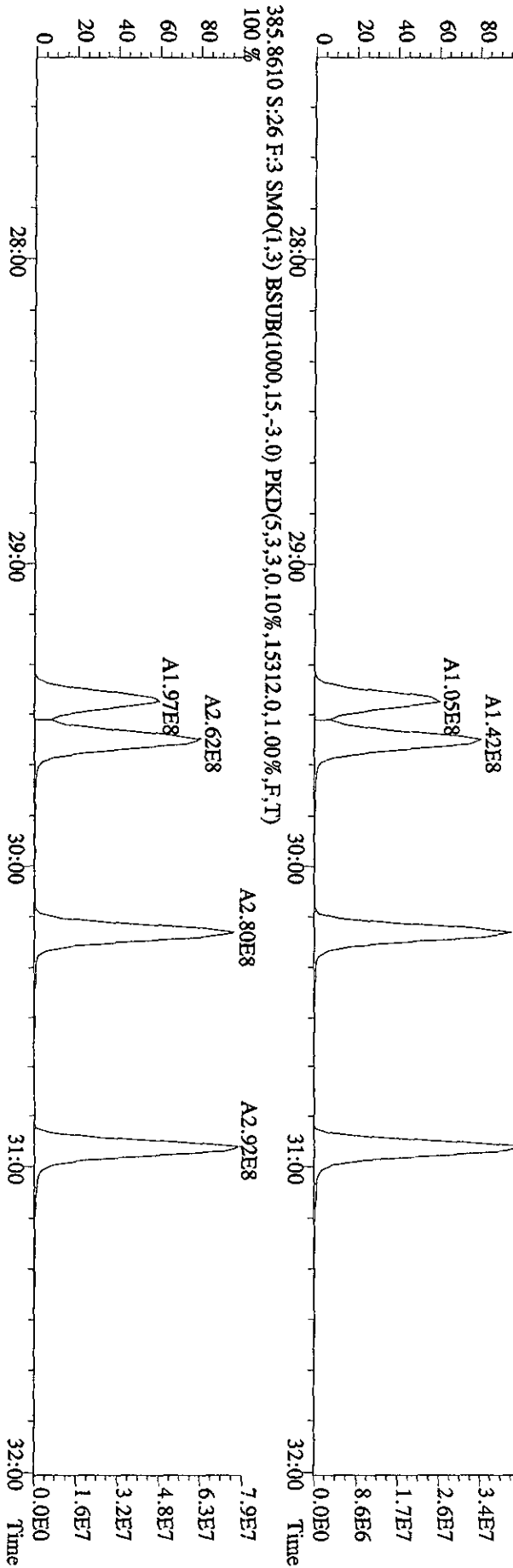
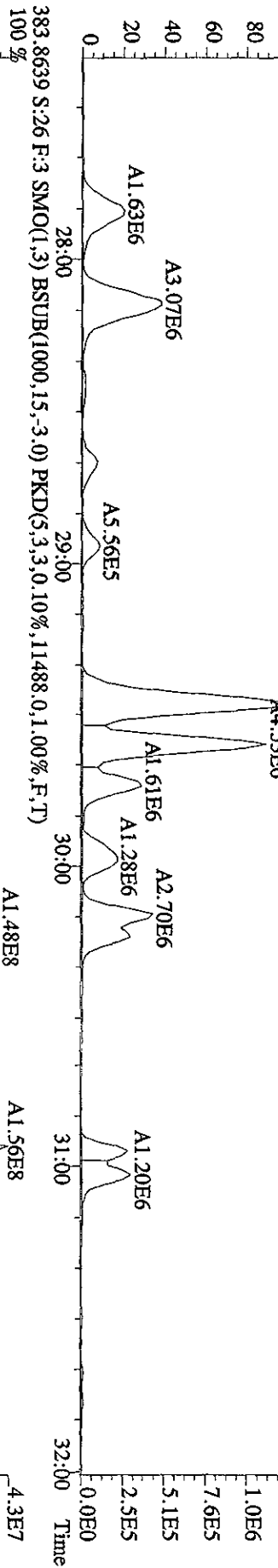
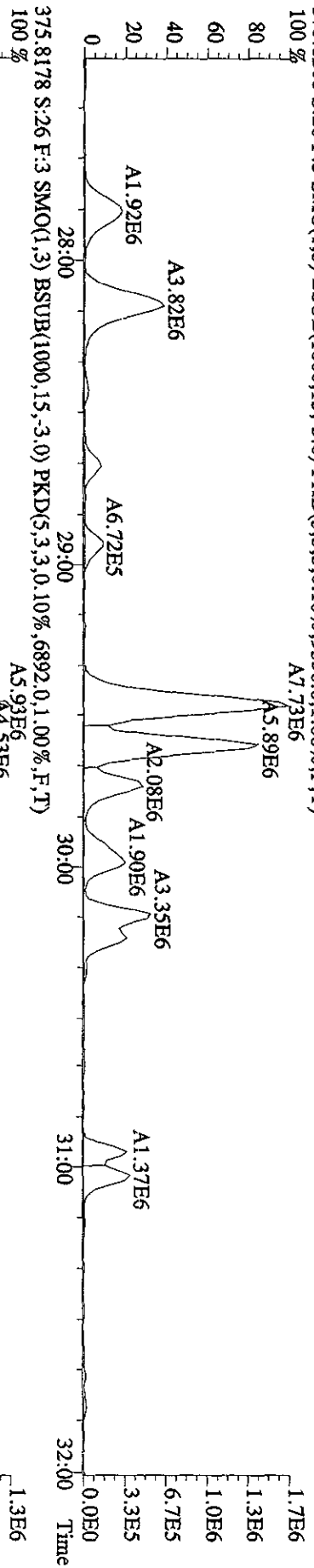
Analyst: 05 Date: 09-24-10



File: 27SE101D5 #1-422 Acq: 28-SEP-2010 03:22:34 GC EI+ Voltage SIR 70SE  
 Sample#26 Text: L7DRH-1-AA :G01230491-19 Exp: DIOXINRES  
 355.8546 S:26 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3548,0.1,0.00%,F,T)  
 100%



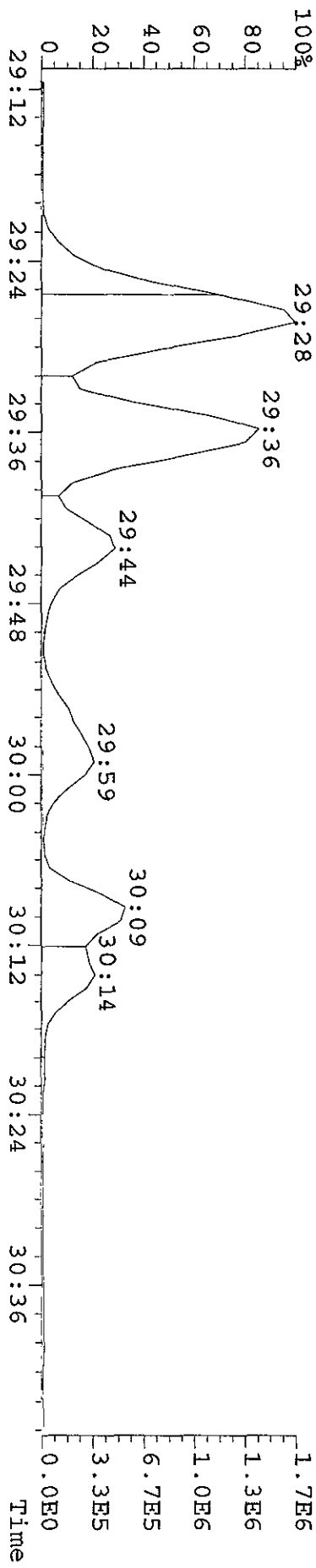
File: 27SE101D5 #1-301 Acq: 28-SEP-2010 03:22:34 GC EI+ Voltage SIR 70SE  
 Sample# 26 Text: L7DRH-1-AA :G01230491-19 Exp: DIOXINRES  
 373.8208 S: 26 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9336,0.1,0.0%,F,T)  
 100%



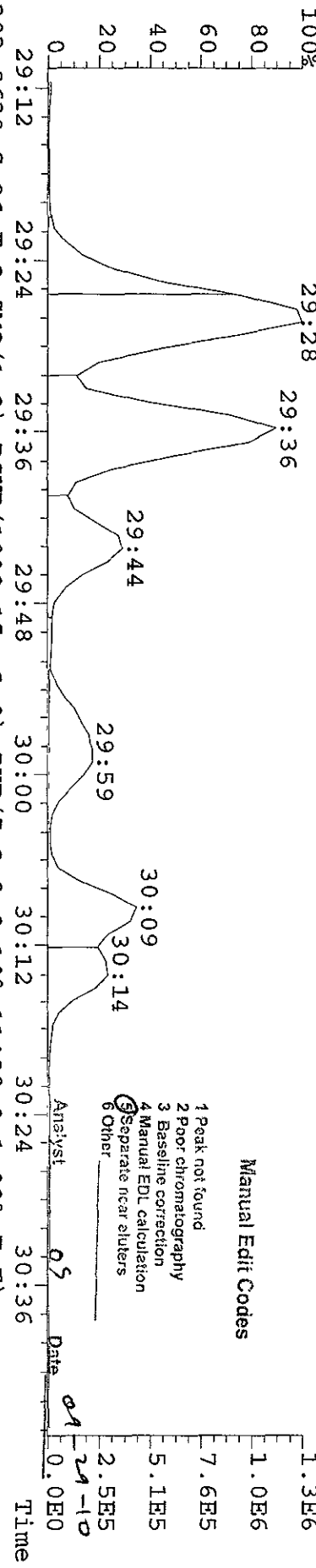
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Sample# 26 Text: L7DRH-1-AA :G0I230491-19 Exp: DIOXINRES

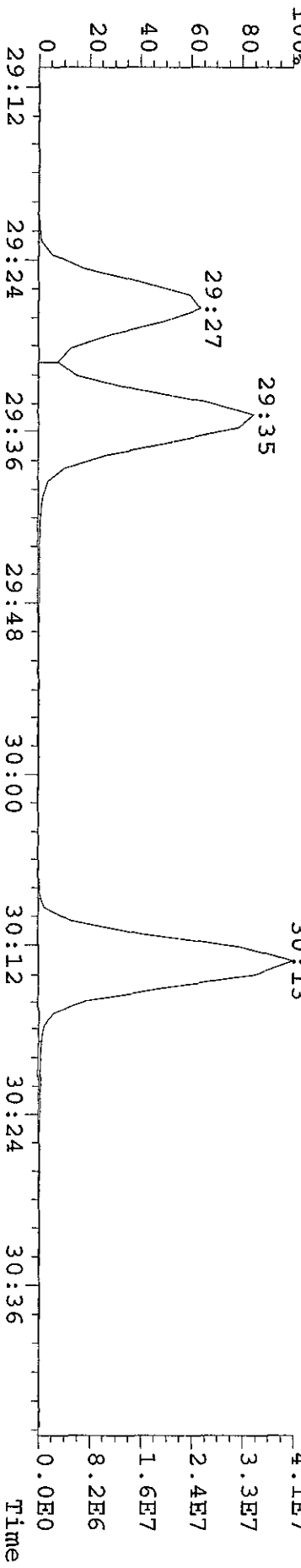
373.8208 S: 26 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9336.0,1.00%,F,T)



375.8178 S: 26 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6892.0,1.00%,F,T)



383.8639 S: 26 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11488.0,1.00%,F,T)



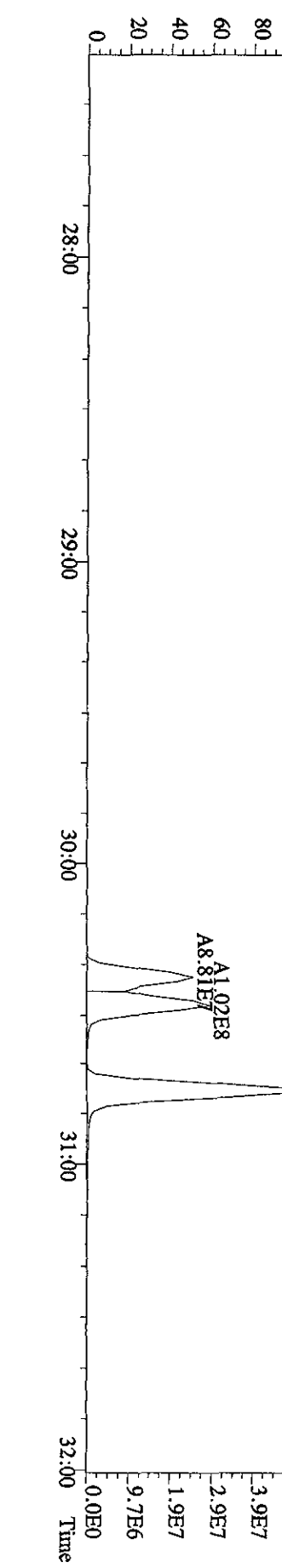
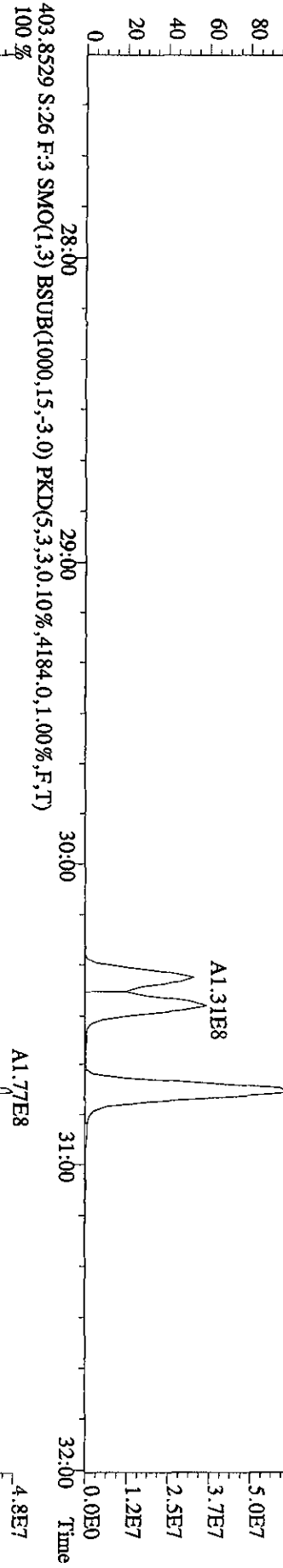
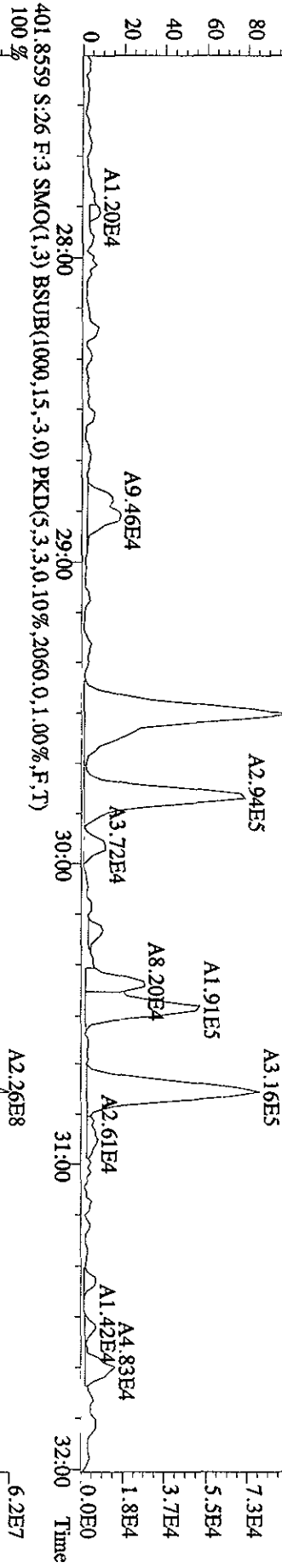
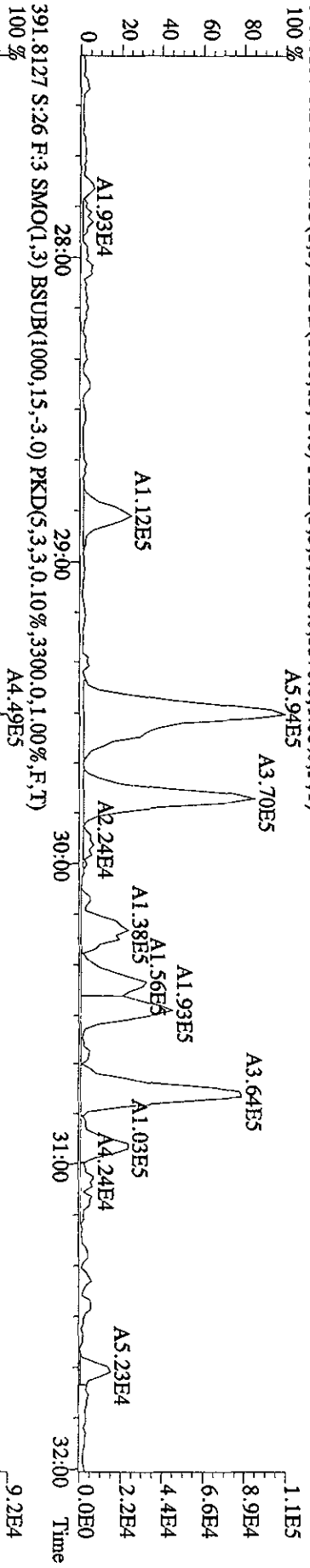
Manual Edit Codes

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

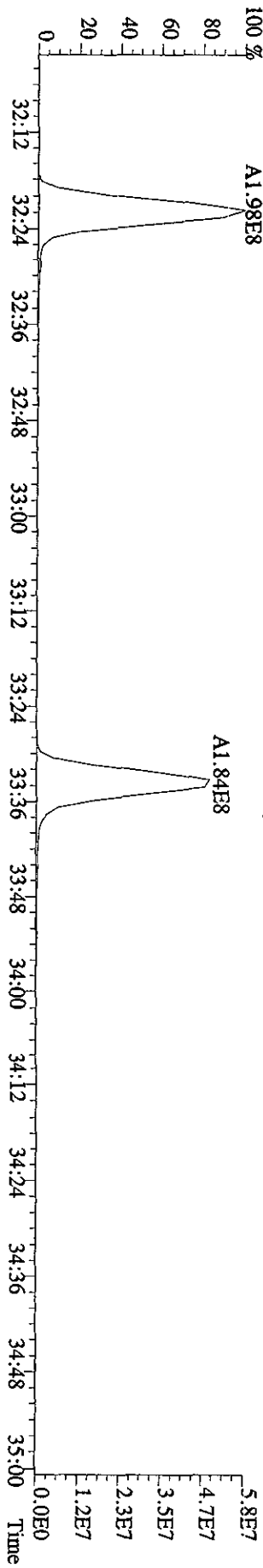
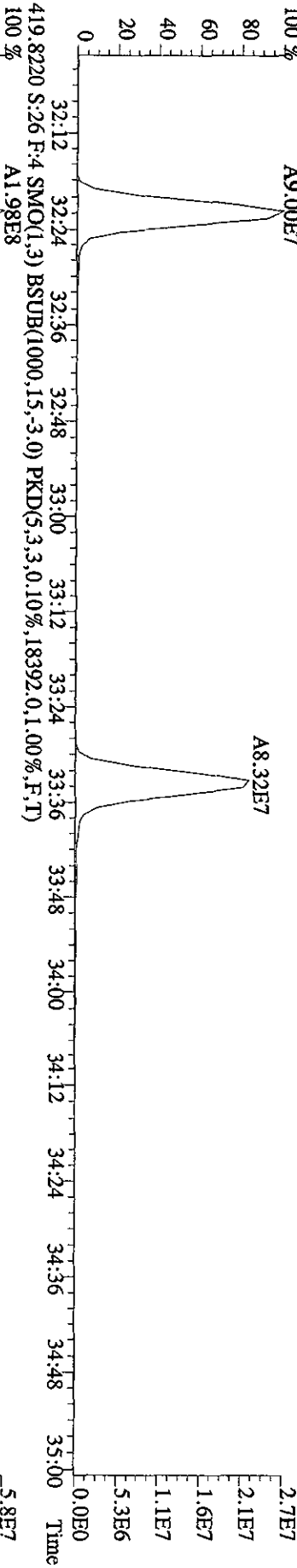
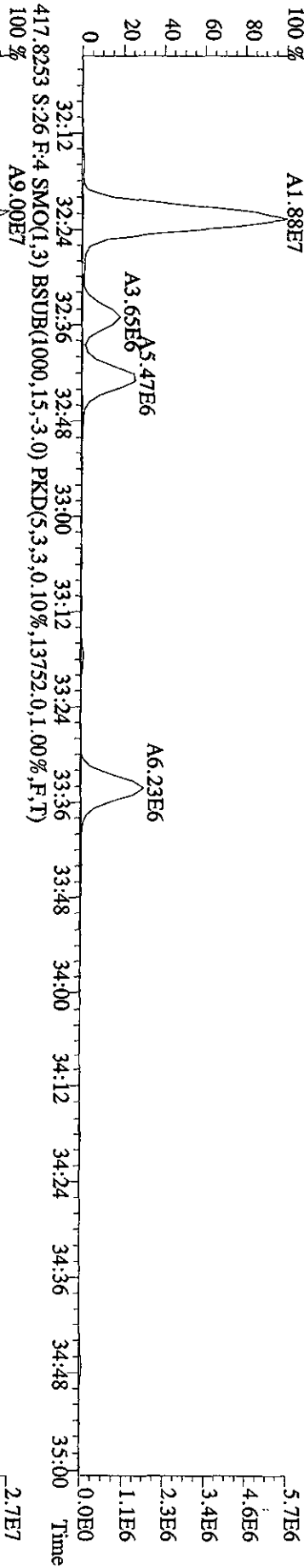
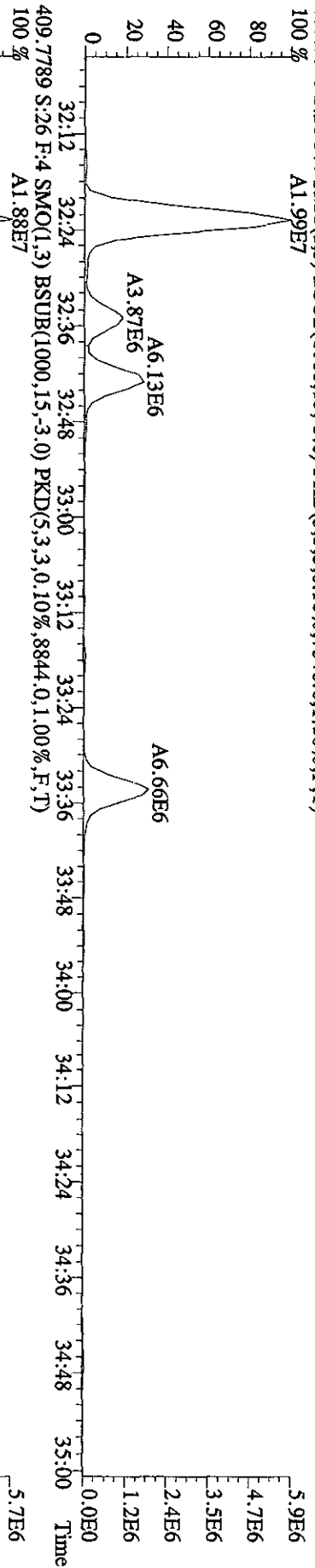
Analyst: 05

Date: 04

File:27SE101D5 #1-301 Acq:28-SEP-2010 03:22:34 GC EI+ Voltage SIR 70SE  
 Sample#26 Text:L7DRH-1-AA :G01230491-19 Exp:DIOXINRES  
 389 8157 S:26 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3376,0,1.00%,F,T)  
 100 %

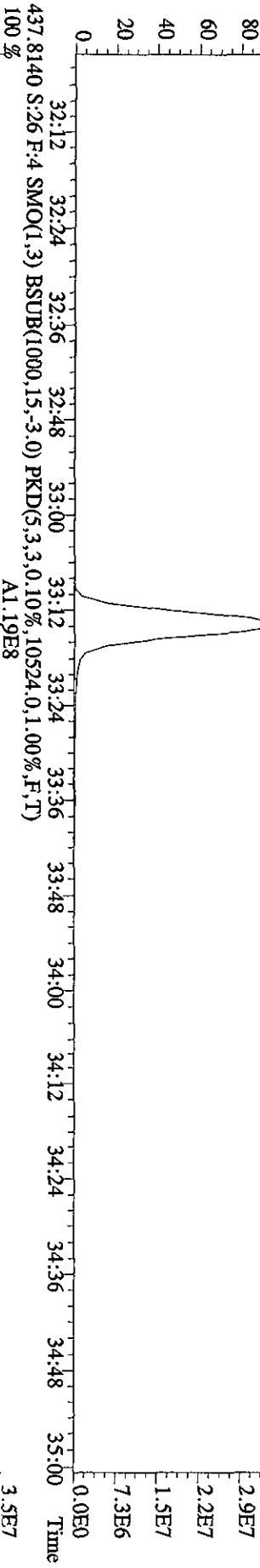
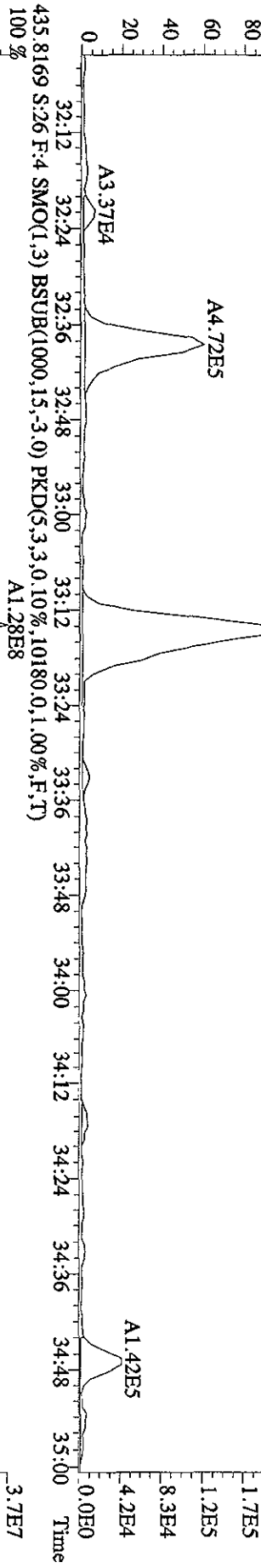
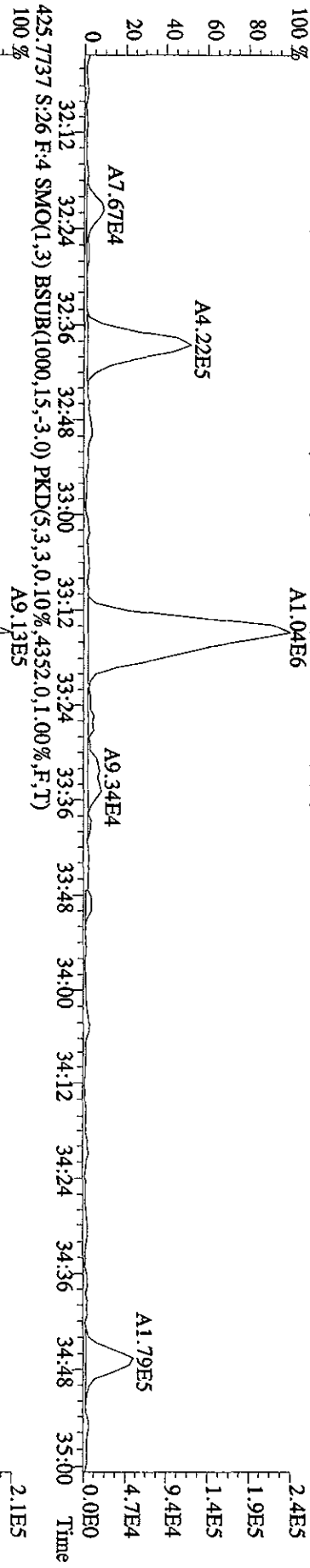


407.7818 S:26 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7548,0.1,00%,F,T) 100%





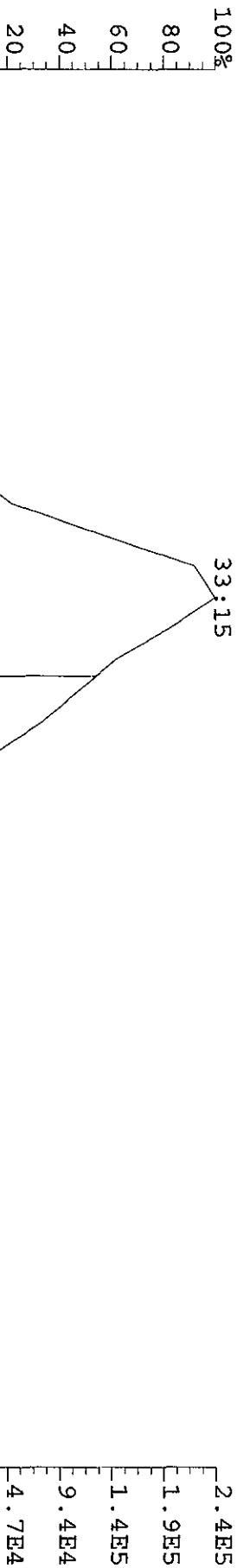
423.7766 S:26 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4000,0,1,00%,F,T)



File: 27SE101D5 #1-203 Acq: 28-SEP-2010 03:22:34 GC FI+ Voltage SIR 70SE

Sample# 26 Text: L7DRH-1-AA : G0I230491-19 Exp: DIOXINRES

423.7766 S: 26 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4000.0,1.00%,F,T)



425.7737 S: 26 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4352.0,1.00%,F,T)



435.8169 S: 26 F: 4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10180.0,1.00%,F,T)

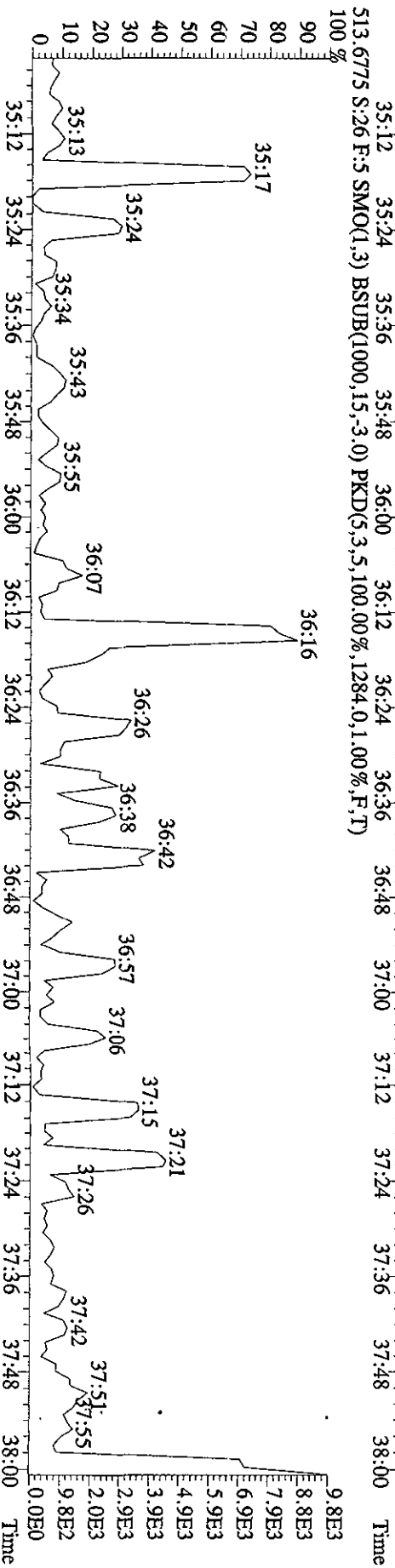
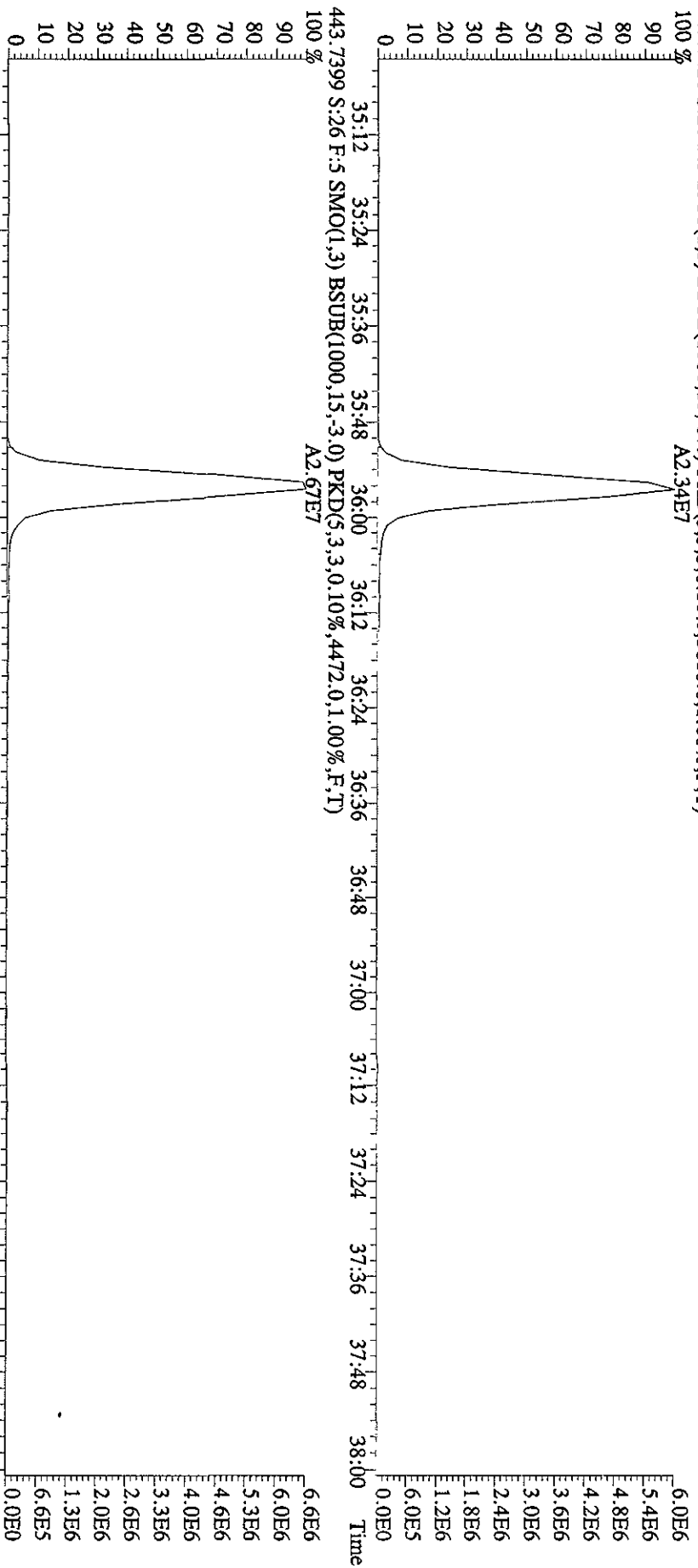


Manual Edit Codes

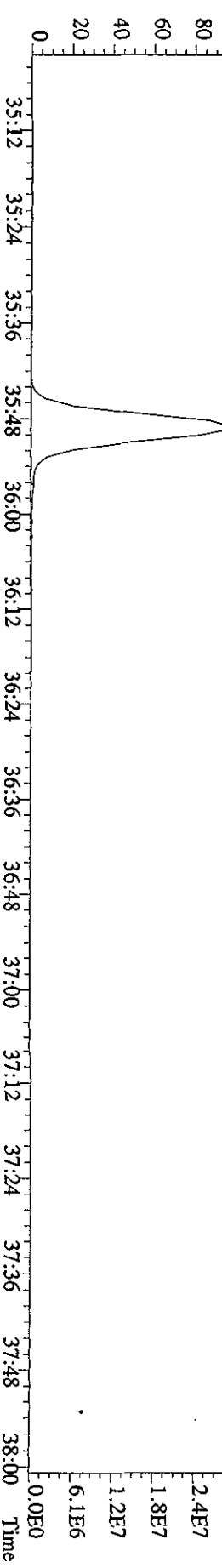
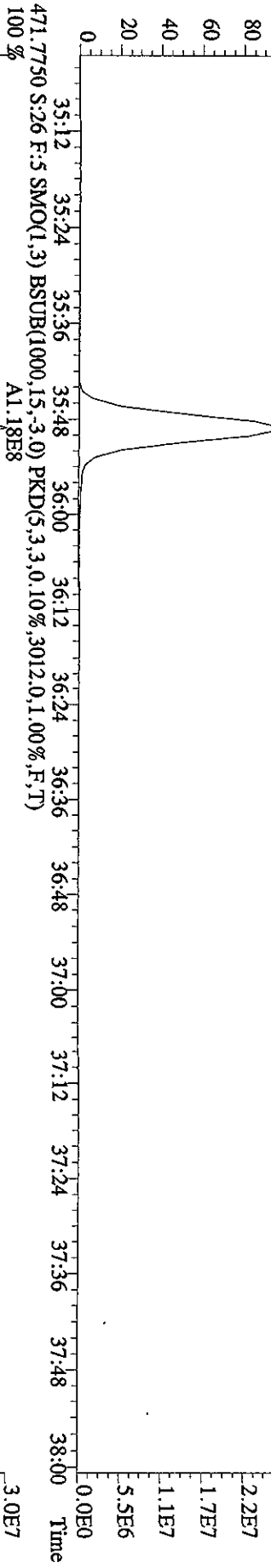
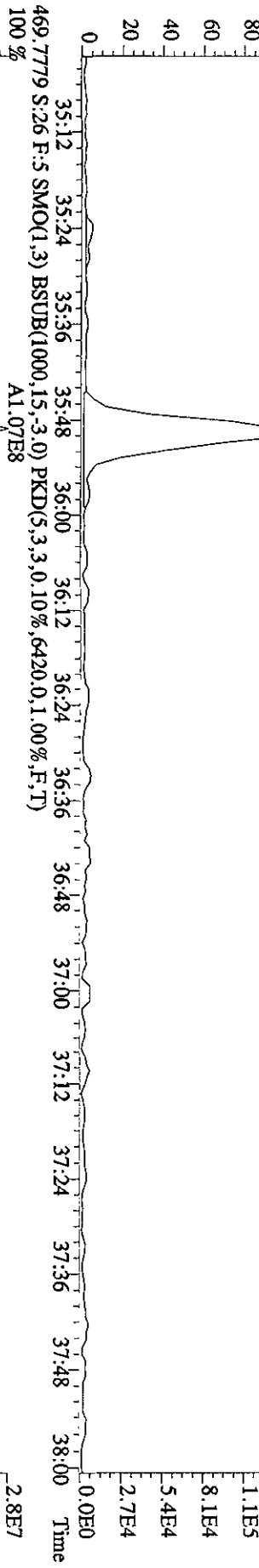
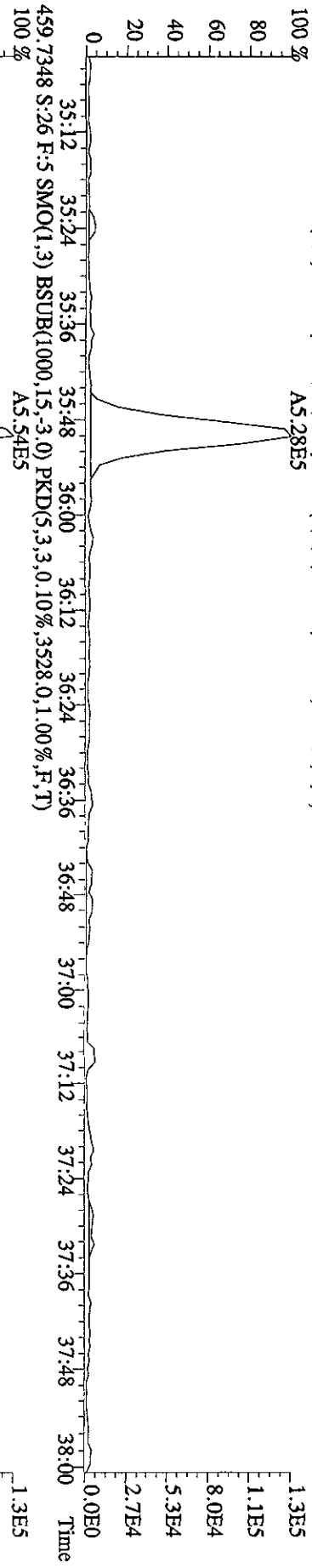
1 Peak not found  
2 Poor chromatography  
3 Baseline correction  
4 Manual EDL calculation  
5 Separate rear eluters  
6 Other

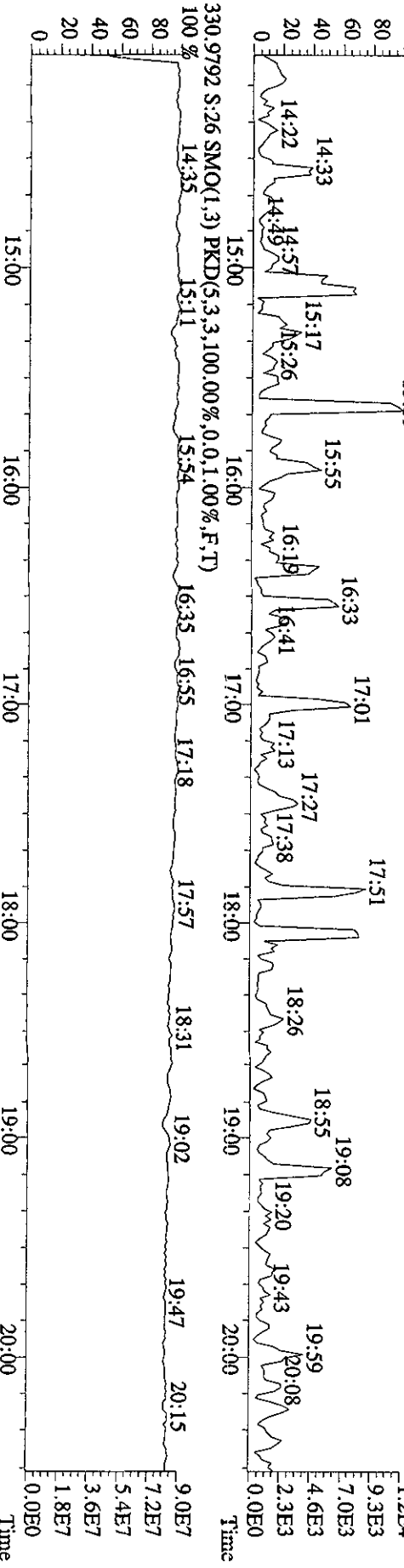
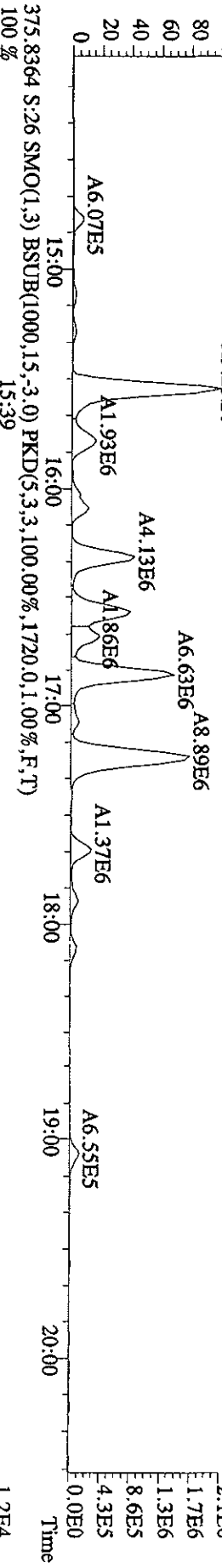
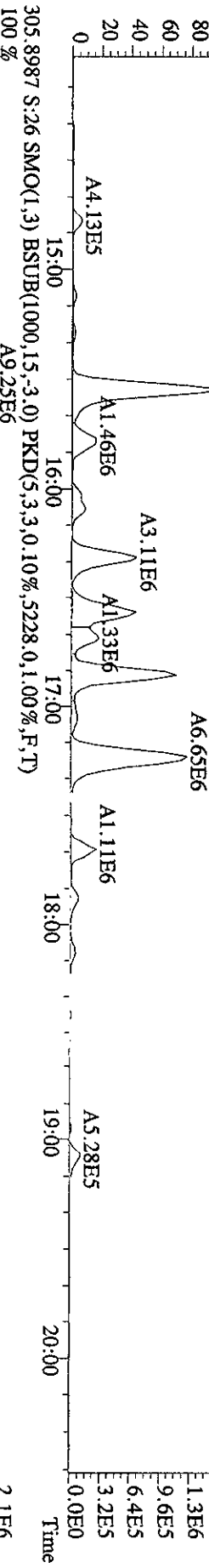
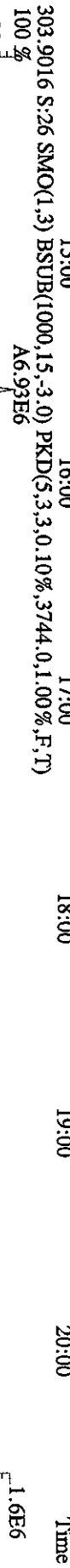
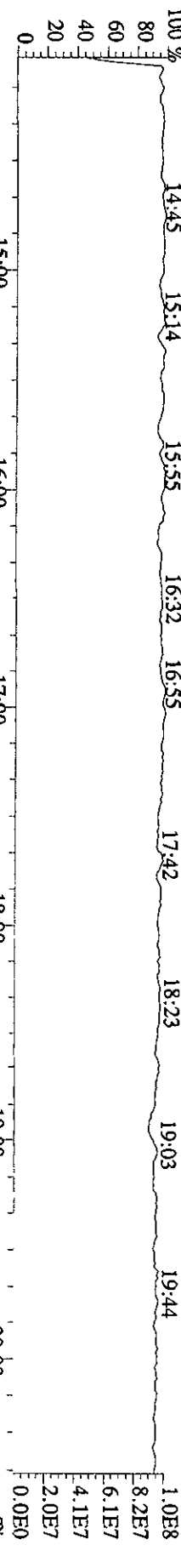
Analyst DS Date 09-29-10

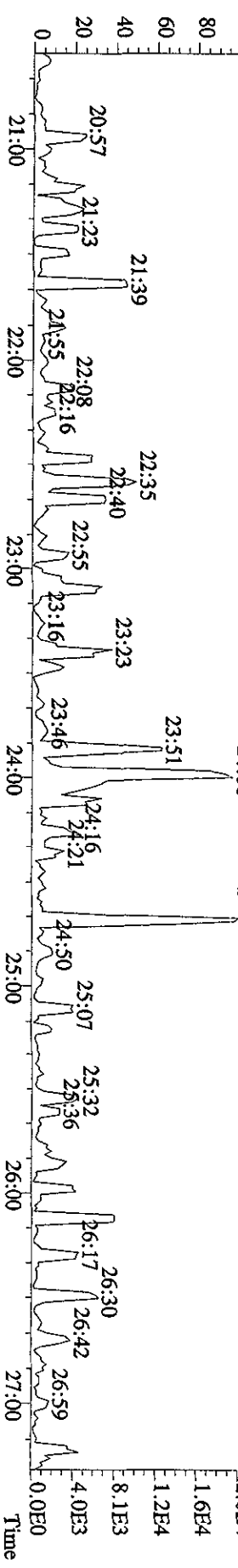
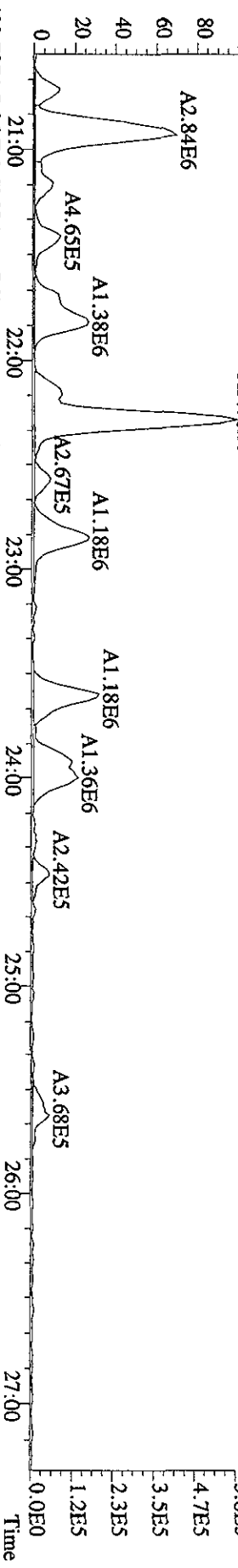
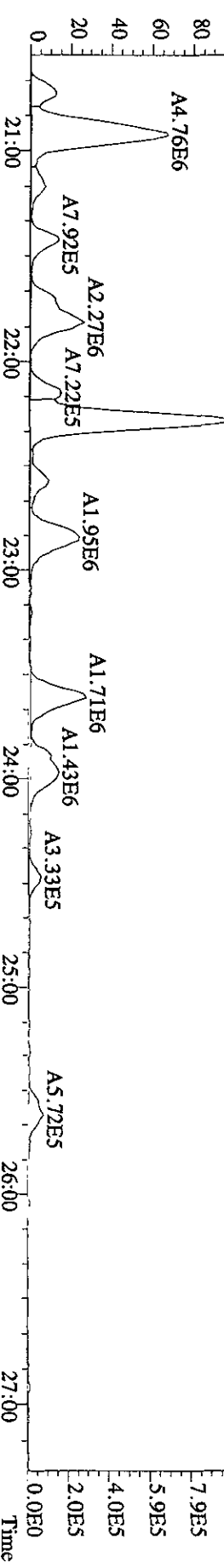
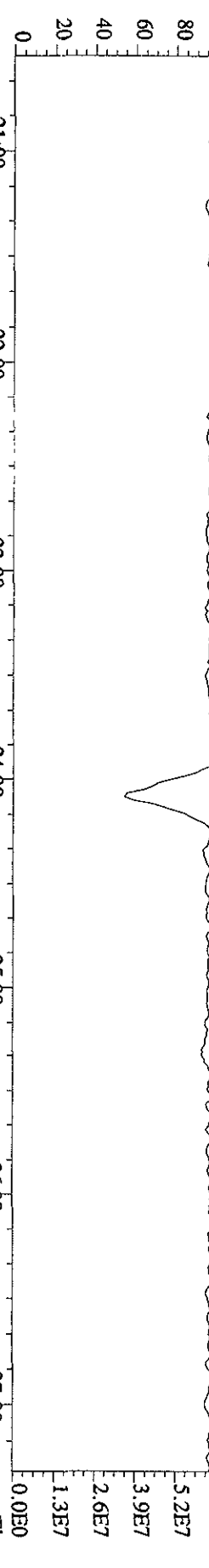
File:27SE101D5 #1-196 Acq:28-SEP-2010 03:22:34 GC EI+ Voltage SIR 70SE  
 Sample#26 Text:L7DRH-1-AA :G01230491-19 Exp:DIOXINRES  
 441.7428 S:26 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3616.0,1.00%,F,T)  
 100% A2.34E7



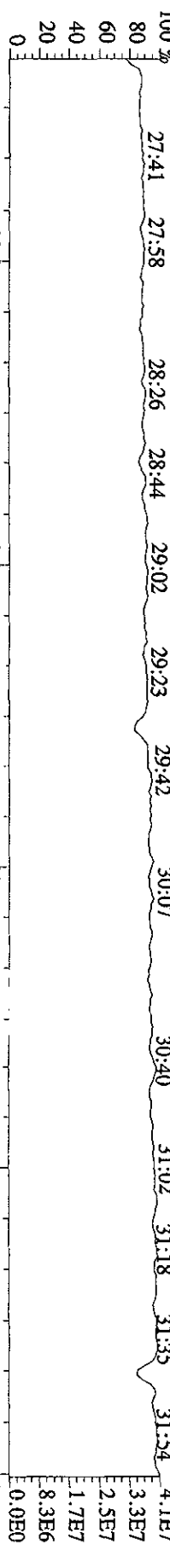
File: 27SE101D5 #1-196 Acq: 28-SEP-2010 03:22:34 GC EI+ Voltage SIR 70SE  
 Sample#26 Text: L7DRH-1-AA :G01230491-19 Exp: DIOXINRES  
 457.7377 S:26 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2824.0,1.00%,F,T)  
 A5.28E5



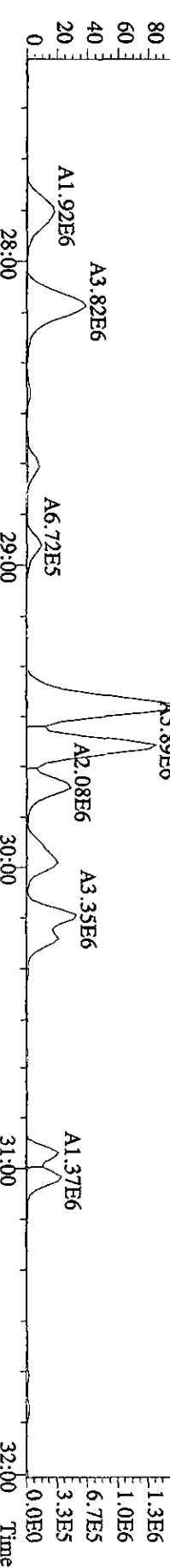




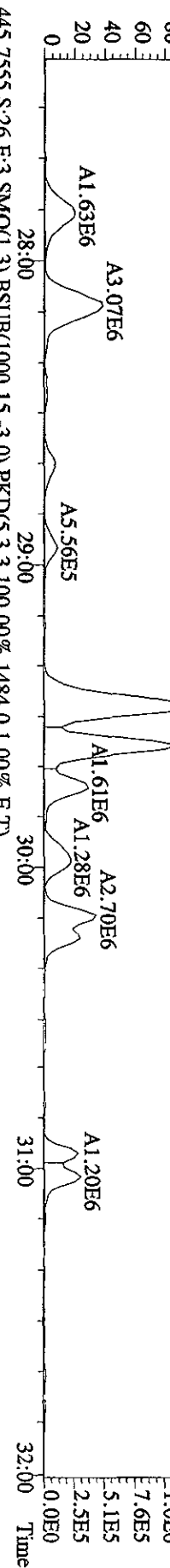
File: 27SEI01D5 #1-301 Acq: 28-SEP-2010 03:22:34 GC EI+ Voltage SIR 70SE  
 Sample# 26 Text: L7DRH-1-AA : G01230491-19 Exp: DIOXINRES  
 392.9760 S: 2.6 F: 3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



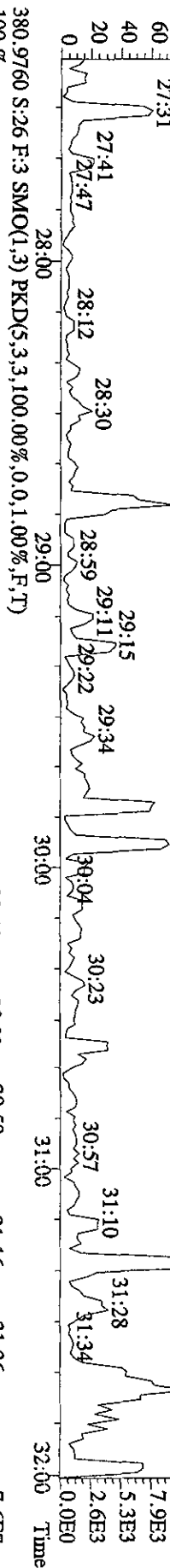
373.8208 S: 2.6 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9336,0.1,0.00%,F,T)



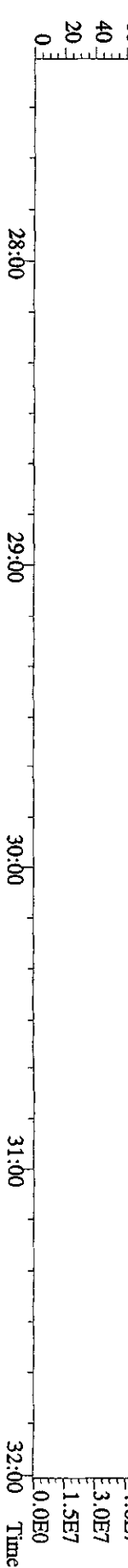
375.8178 S: 2.6 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6892,0.1,0.00%,F,T)



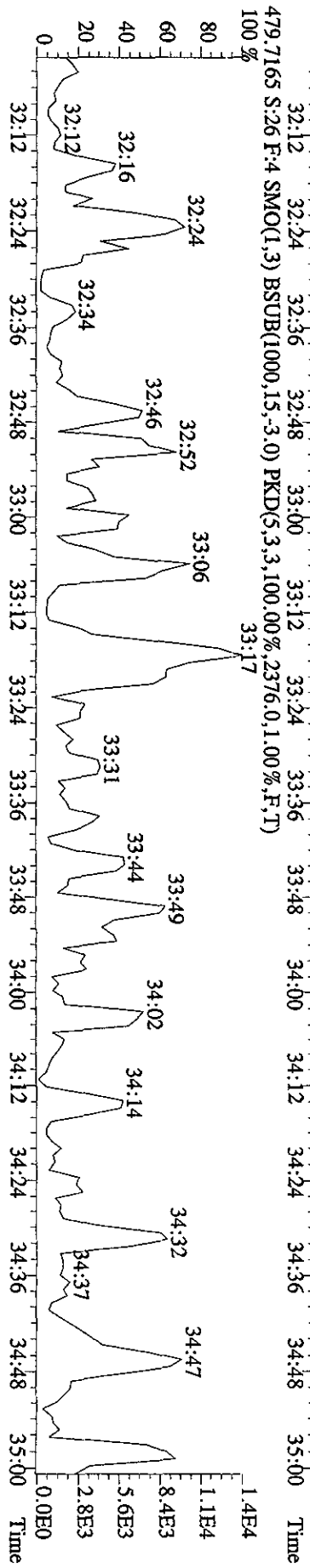
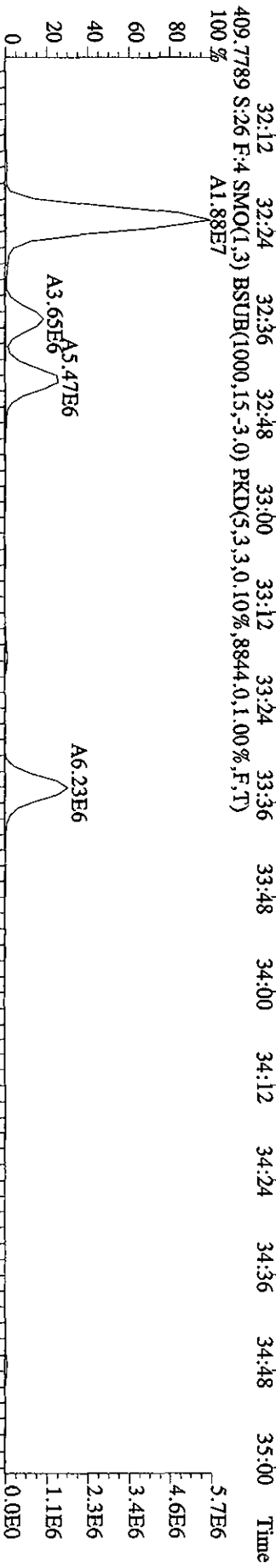
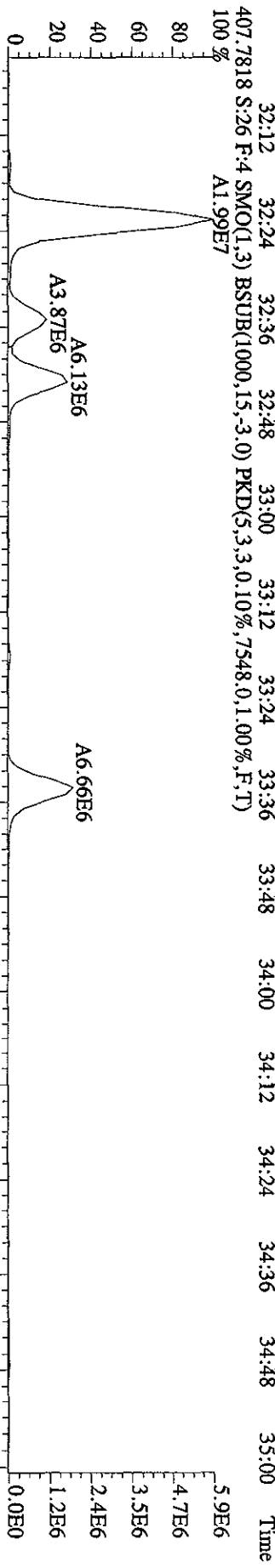
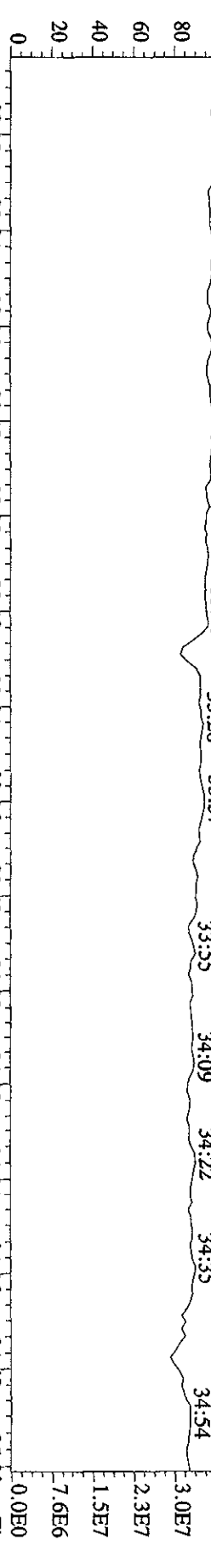
445.7555 S: 2.6 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1484,0.1,0.00%,F,T)



380.9760 S: 2.6 F: 3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

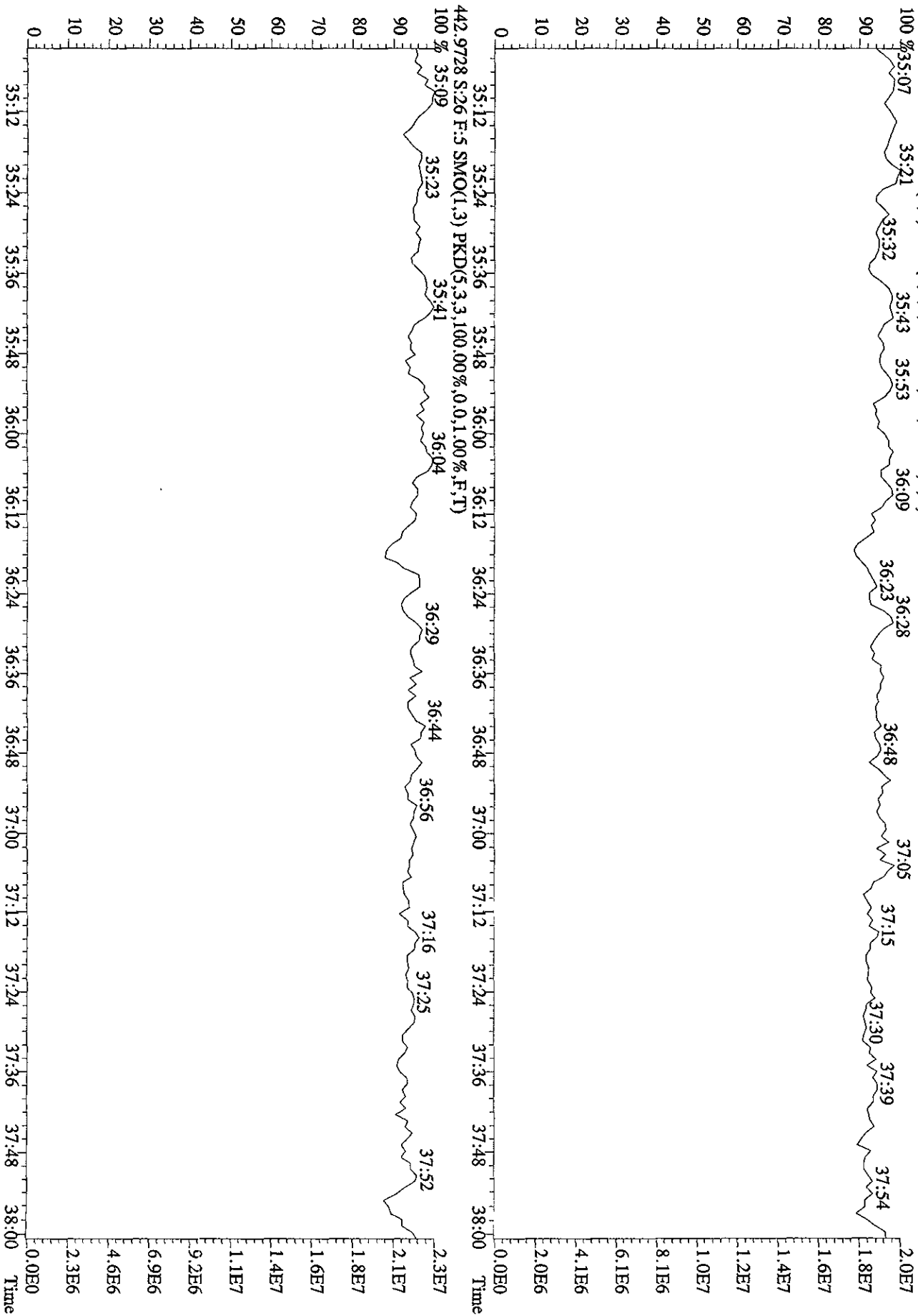


File: 27SE101D5 #1-203 Acq: 28-SEP-2010 03:22:34 GC EI+ Voltage SIR 70SE  
 Sample# 26 Text: L7DRH-1-AA : G01230491-19 Exp: DIOXINRES  
 430.9728 S:2.6 F:4 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)  
 100% 32:11 32:25 32:47 32:59 33:13 33:26 33:37 33:55 34:09 34:22 34:35 34:54





File: 27SE101D5 #1-196 Acq: 28-SEP-2010 03:22:34 GC EI+ Voltage SIR 70SE  
 Sample#26 Text: L7DRH-1-AA : G0I230491-19 Exp: DIOXINRES  
 454.9728 S: 26 F: 5 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)  
 100 % 35:07 35:21 35:32 35:43 35:53 36:09 36:23 36:28 36:48 37:05 37:15 37:30 37:39 37:54



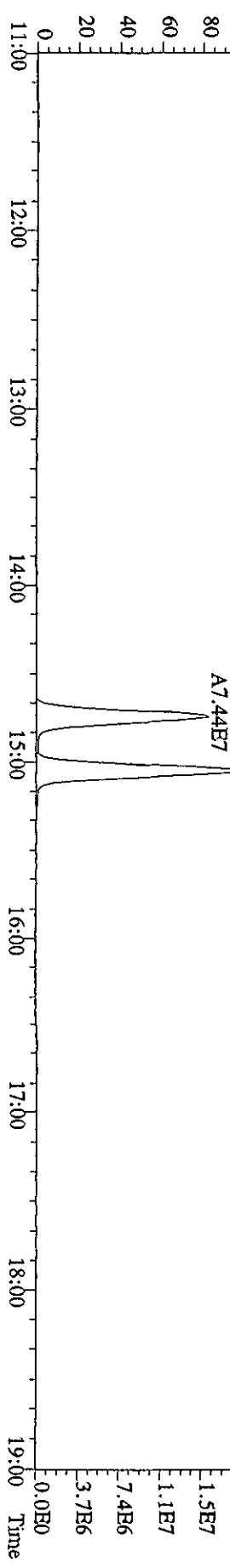
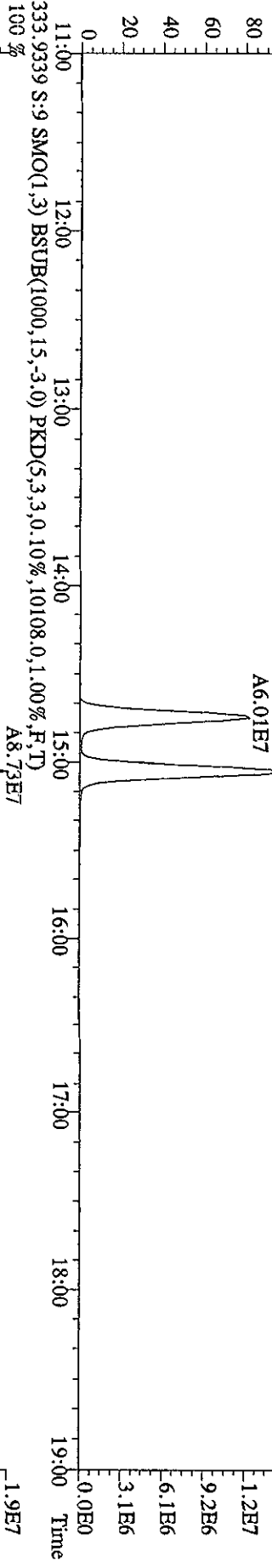
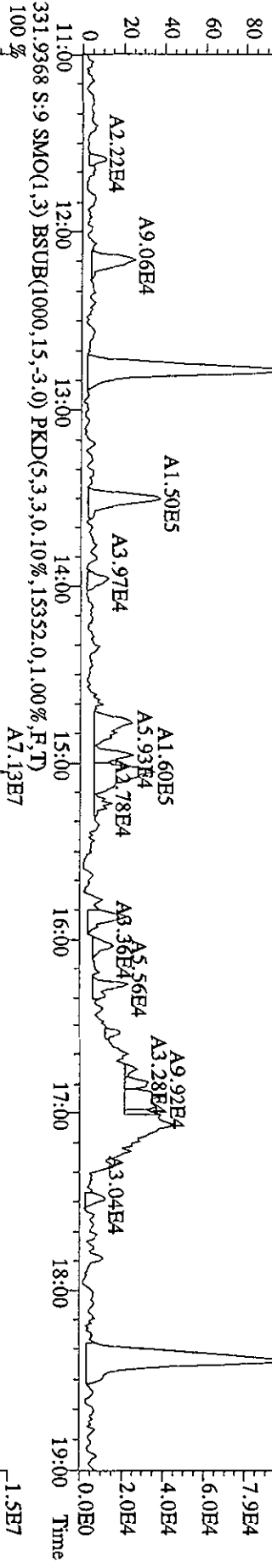
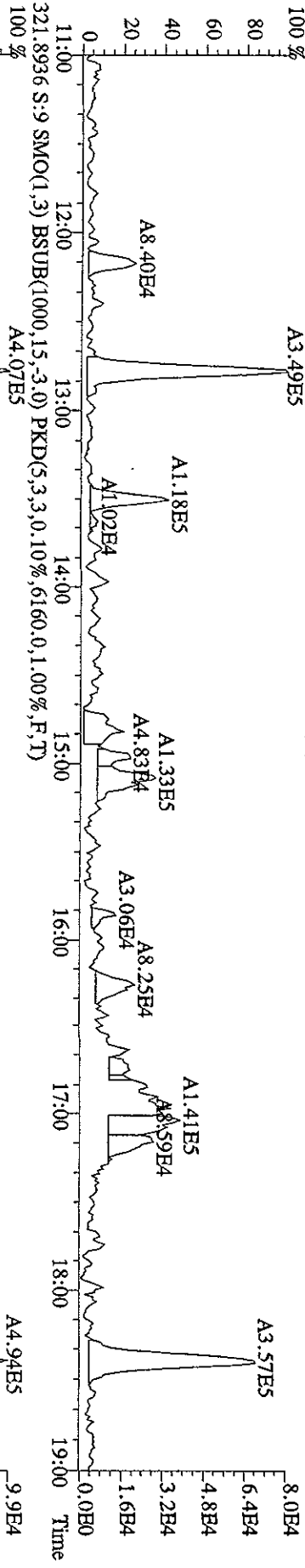
Run text: L7DRH-1-AA Sample text: L7DRH-1-AA :G0I230491-19  
 Run #11 Filename: 29SE105D2 S: 9 I: 1 Results: 29SE105D2DB225AIR  
 Acquired: 29-SEP-10 13:55:43 Processed: 29-SEP-10 15:11:46  
 Run: 29SE105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2R  
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	158611424	0.82 y	15:03	-	268.606	-	-	n
13C-2,3,7,8-TCDF	290286864	0.79 y	16:15	2.11	3467.304	5.983	86.7	n
2,3,7,8-TCDF	3706385	0.74 y	16:17	1.06	48.358,	1.987,		n
13C-2,3,7,8-TCDD	134535712	0.81 y	14:45	0.88	3834.939	10.184	95.9	n
2,3,7,8-TCDD	*	* n	NotFnd	1.64	*	3.031	-	n
37Cl-2,3,7,8-TCDD	88100872	1.00 y	14:46	1.46	1796.381	5.449	112.3	n

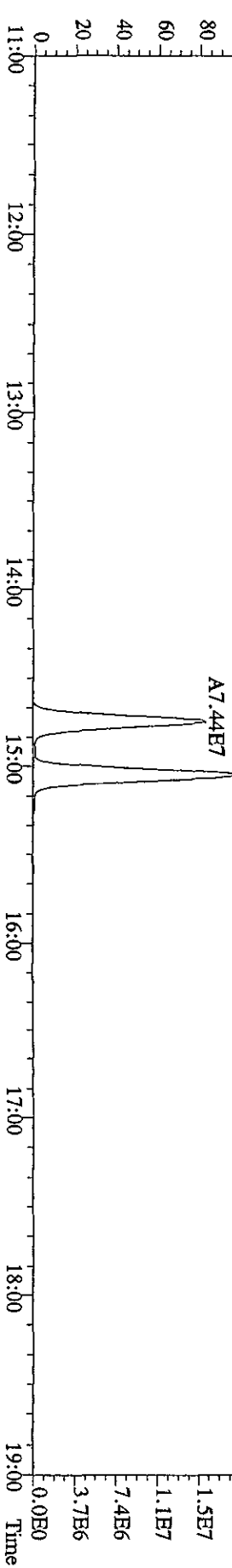
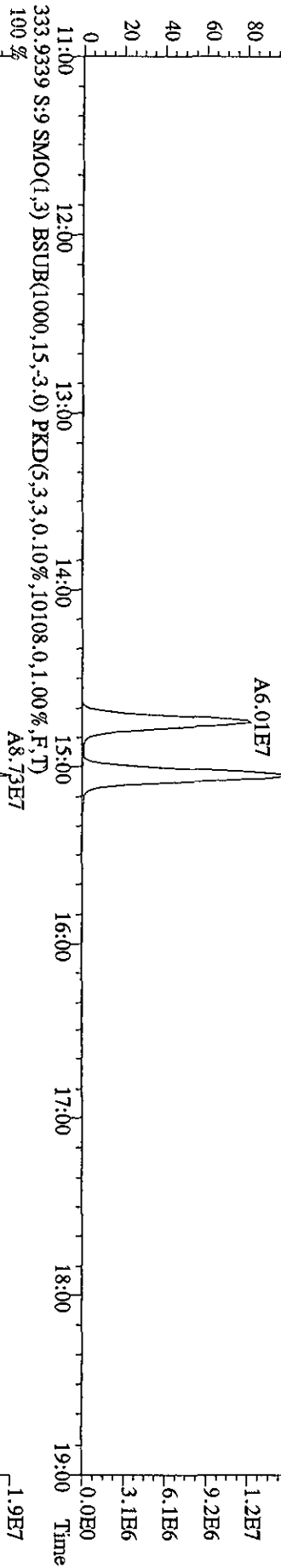
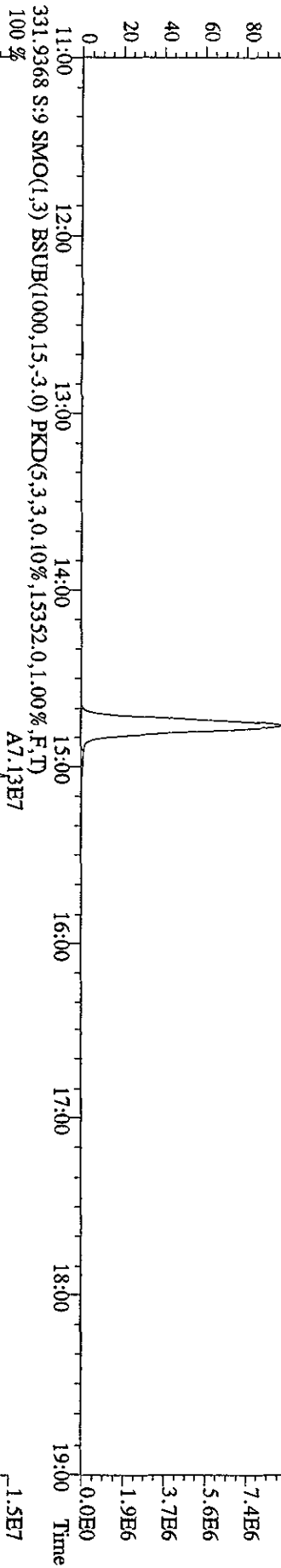
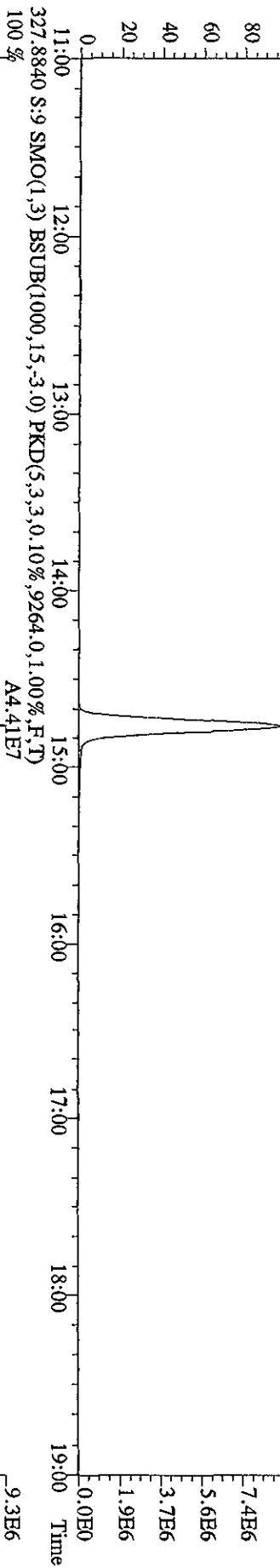
os  
 09-30-10



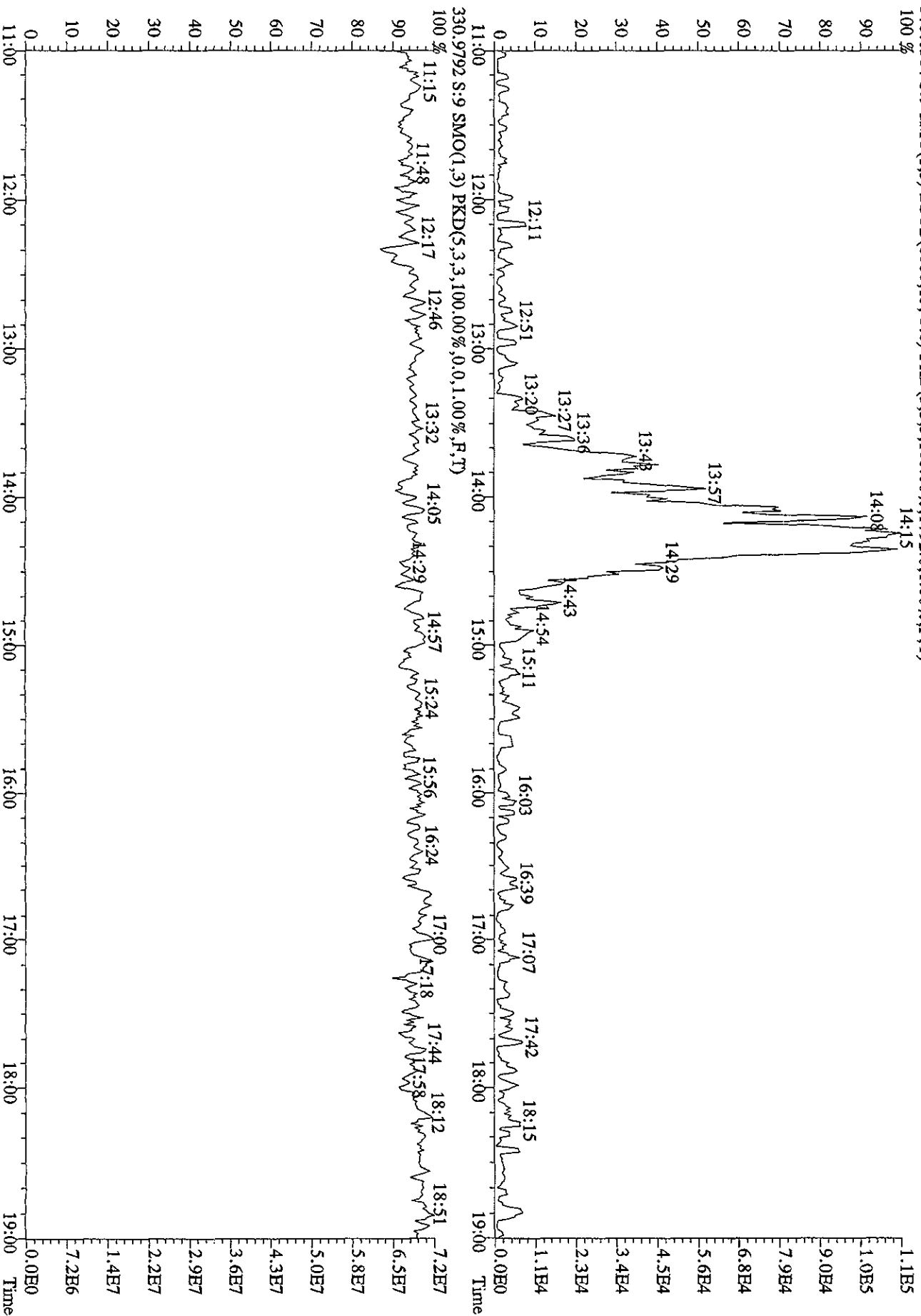
File: 29SE105D2 #1-1242 Acq: 29-SEP-2010 13:55:43 GC EI + Voltage SIR 70SE  
 Sample#9 Text: L7DRH-1-AA : G01230491-19 Exp: DB225RES  
 319.8965 S: 9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5400.0,1.00%,F,T)



File: 29SE105D2 #1-1242 Acq: 29-SEP-2010 13:55:43 GC EI+ Voltage SIR 70SE  
 Sample#9 Text: L7DRH-1-AA : G01230491-19 Exp: DB25RES  
 327.8840 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,1.00%,F,T) A4.41E7  
 100%



File: 29SE105D2 #1-1242 Acq: 29-SEP-2010 13:55:43 GC EI+ Voltage SIR 70SE  
 Sample#9 Text: L7DRH-1-AA :G01230491-19 Exp: DB225RES  
 375.8364 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1792.0,1.00%,F,T)



Method ID T09

Column ID DB5

STD ID ST0927A, ST0927B

Analyzed by K.S.S., A.M.

Std. Pkg. By M.G.

Std. Pkg. Reviewed By JRS

Associated ICAL T090914101D5

Instrument ID 1D5

STD Solution 10DxN426

Date Analyzed 9/27/10, 9/28/10

Date Std. Pkg. Assembled 9/28/10

Date Std. Pkg. Reviewed 9/28/10

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? (for 1613B only)	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: ST0927A File text: ST0927A :CS3 10DXN426  
 Run #6 Filename 27SE101D5 S: 16 I: 1  
 Acquired: 27-SEP-10 20:12:49 Processed: 28-SEP-10 09:21:45  
 Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5TO9

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	425436000	0.82 y	17:44	-	100.00	-	n
13C-2,3,7,8-TCDF	677299000	0.81 y	17:13	1.59	100.00	1.9	n
2,3,7,8-TCDF	73097800	0.77 y	17:14	1.08	10.00	9.7	n
Total TCDF	73473580	0.58 n	16:53	1.08	10.00	9.7	n
13C-2,3,7,8-TCDD	413958000	0.81 y	17:55	0.97	100.00	5.7	n
2,3,7,8-TCDD	45221900	0.78 y	17:57	1.09	10.00	5.9	n
Total TCDD	45520378	2.42 n	17:12	1.09	10.00	5.9	n
37Cl-2,3,7,8-TCDD	52060400	1.00 y	17:57	1.26	10.00	2.6	n
13C-1,2,3,7,8-PeCDF	496907000	1.65 y	22:16	1.17	100.00	11.0	n
1,2,3,7,8-PeCDF	307175000	1.61 y	22:17	1.24	50.00	13.2	n
2,3,4,7,8-PeCDF	289394000	1.60 y	23:37	1.16	50.00	14.5	n
Total F2 PeCDF	602248305	1.68 y	20:55	1.20	100.00	13.8	n
Total F1 PeCDF	584570	0.64 n	15:18	1.20	100.00	13.8	n
13C-1,2,3,7,8-PeCDD	270674000	1.68 y	24:18	0.64	100.00	13.4	n
1,2,3,7,8-PeCDD	157131700	1.64 y	24:20	1.16	50.00	8.5	n
Total PeCDD	157365228	3.36 n	24:01	1.16	50.00	8.5	n
13C-1,2,3,7,8,9-HxCDD	382845000	1.27 y	30:46	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	421144000	0.52 y	29:28	1.10	100.00	11.0	n
1,2,3,4,7,8-HxCDF	295532000	1.27 y	29:28	1.40	50.00	11.3	n
1,2,3,6,7,8-HxCDF	330927000	1.25 y	29:36	1.57	50.00	2.6	n
2,3,4,6,7,8-HxCDF	293092000	1.29 y	30:14	1.39	50.00	-1.1	n
1,2,3,7,8,9-HxCDF	279523000	1.26 y	30:57	1.33	50.00	-4.9	n
Total HxCDF	1199074000	1.27 y	29:28	1.42	200.00	1.8	n
13C-1,2,3,6,7,8-HxCDD	313859000	1.27 y	30:28	0.82	100.00	10.9	n
1,2,3,4,7,8-HxCDD	189643000	1.26 y	30:24	1.21	50.00	7.9	n
1,2,3,6,7,8-HxCDD	198459100	1.26 y	30:29	1.26	50.00	10.8	n
1,2,3,7,8,9-HxCDD	222205500	1.29 y	30:46	1.42	50.00	4.6	n
Total HxCDD	610307600	1.26 y	30:24	1.30	150.00	7.6	n
13C-1,2,3,4,6,7,8-HpCDF	334274000	0.44 y	32:22	0.87	100.00	-8.7	n
1,2,3,4,6,7,8-HpCDF	268777000	1.04 y	32:23	1.61	50.00	14.2	n
1,2,3,4,7,8,9-HpCDF	218213000	1.05 y	33:34	1.31	50.00	5.6	n
Total HpCDF	486990000	1.04 y	32:23	1.46	100.00	10.2	n
13C-1,2,3,4,6,7,8-HpCDD	251418000	1.09 y	33:14	0.66	100.00	-7.8	n
1,2,3,4,6,7,8-HpCDD	158021900	1.06 y	33:15	1.26	50.00	10.8	n
Total HpCDD	158494580	0.84 n	32:40	1.26	50.00	10.8	n
13C-OCDD	230195000	0.93 y	35:49	0.30	200.00	-14.8	n
OCDF	247112000	0.91 y	35:57	2.15	100.00	1.4	n
OCDD	162644200	0.90 y	35:50	1.41	100.00	3.1	n



Run text: ST0927B File text: ST0927B :CS3 10DXN426  
 Run #19 Filename 27SE101D5 S: 31 I: 1  
 Acquired: 28-SEP-10 06:57:21 Processed: 28-SEP-10 09:23:04  
 Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5TO9

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	348501000	0.83 y	17:42	-	100.00	-	n
13C-2,3,7,8-TCDF	576717000	0.80 y	17:11	1.65	100.00	5.9	n
2,3,7,8-TCDF	62830700	0.78 y	17:12	1.09	10.00	10.7	n
Total TCDF	63180594	0.94 n	16:50	1.09	10.00	10.7	n
13C-2,3,7,8-TCDD	332791000	0.81 y	17:54	0.95	100.00	3.7	n
2,3,7,8-TCDD	36608700	0.79 y	17:55	1.10	10.00	6.6	n
Total TCDD	36803463	0.54 n	16:47	1.10	10.00	6.6	n
37Cl-2,3,7,8-TCDD	40873200	1.00 y	17:55	1.23	10.00	0.2	n
13C-1,2,3,7,8-PeCDF	405911000	1.64 y	22:14	1.16	100.00	10.7	n
1,2,3,7,8-PeCDF	254076800	1.61 y	22:16	1.25	50.00	14.6	n
2,3,4,7,8-PeCDF	244602500	1.63 y	23:36	1.21	50.00	18.4	n
Total F2 PeCDF	502429918	1.58 y	20:54	1.23	100.00	16.5	n
Total F1 PeCDF	389153	0.60 n	15:15	1.23	100.00	16.5	n
13C-1,2,3,7,8-PeCDD	226108800	1.70 y	24:17	0.65	100.00	15.7	n
1,2,3,7,8-PeCDD	129307100	1.64 y	24:19	1.14	50.00	6.9	n
Total PeCDD	129307100	1.64 y	24:19	1.14	50.00	6.9	n
13C-1,2,3,7,8,9-HxCDD	329567000	1.27 y	30:45	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	364085000	0.53 y	29:27	1.10	100.00	11.5	n
1,2,3,4,7,8-HxCDF	260405000	1.26 y	29:27	1.43	50.00	13.4	n
1,2,3,6,7,8-HxCDF	277026000	1.28 y	29:36	1.52	50.00	-0.6	n
2,3,4,6,7,8-HxCDF	256576000	1.26 y	30:14	1.41	50.00	0.1	n
1,2,3,7,8,9-HxCDF	245111000	1.27 y	30:57	1.35	50.00	-3.6	n
Total HxCDF	1039118000	1.26 y	29:27	1.43	200.00	2.0	n
13C-1,2,3,6,7,8-HxCDD	269520000	1.28 y	30:27	0.82	100.00	10.6	y
1,2,3,4,7,8-HxCDD	162963900	1.28 y	30:23	1.21	50.00	8.0	y
1,2,3,6,7,8-HxCDD	173555200	1.28 y	30:28	1.29	50.00	12.9	y
1,2,3,7,8,9-HxCDD	192579800	1.27 y	30:46	1.43	50.00	5.6	n
Total HxCDD	529098900	1.28 y	30:23	1.31	150.00	8.6	y
13C-1,2,3,4,6,7,8-HpCDF	299206800	0.45 y	32:22	0.91	100.00	-5.0	n
1,2,3,4,6,7,8-HpCDF	239908000	1.04 y	32:23	1.60	50.00	13.9	n
1,2,3,4,7,8,9-HpCDF	195214300	1.05 y	33:34	1.30	50.00	5.6	n
Total HpCDF	435122300	1.04 y	32:23	1.45	100.00	10.0	n
13C-1,2,3,4,6,7,8-HpCDD	221106000	1.08 y	33:14	0.67	100.00	-5.8	n
1,2,3,4,6,7,8-HpCDD	141103900	1.08 y	33:14	1.28	50.00	12.5	n
Total HpCDD	141441326	1.26 n	32:39	1.28	50.00	12.5	n
13C-OCDD	206686000	0.95 y	35:49	0.31	200.00	-11.1	n
OCDF	220096000	0.90 y	35:56	2.13	100.00	0.6	n
OCDD	143603200	0.90 y	35:49	1.39	100.00	1.3	n

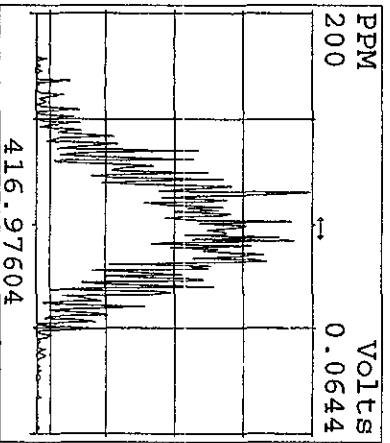
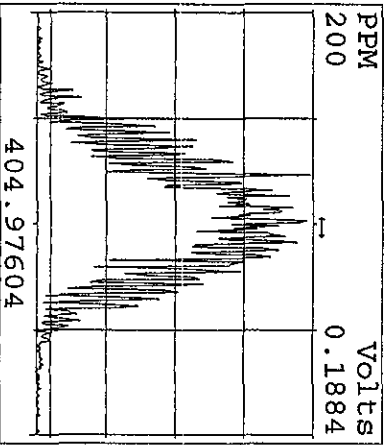
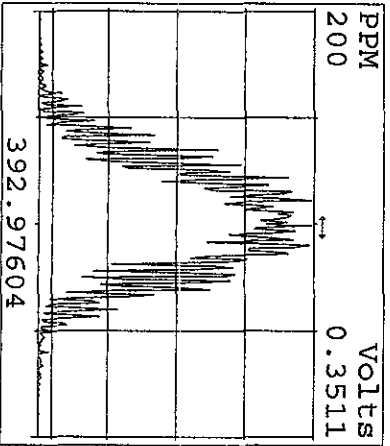
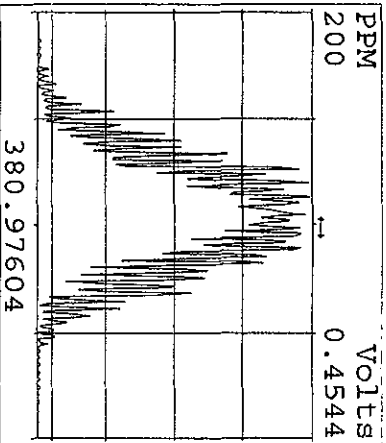
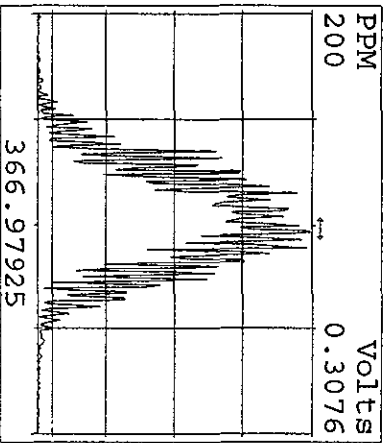
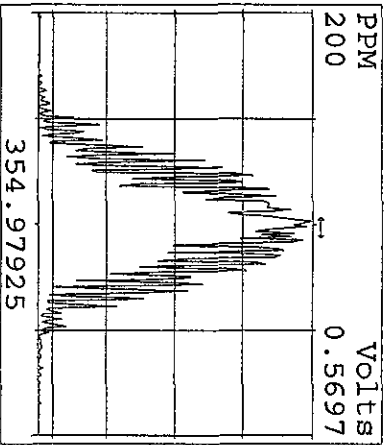
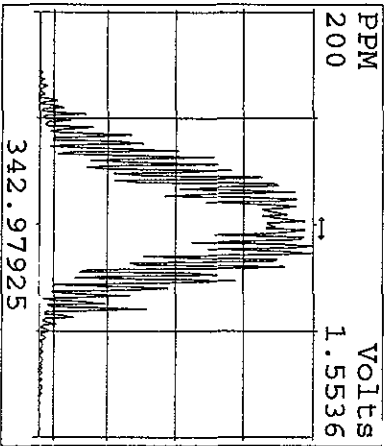
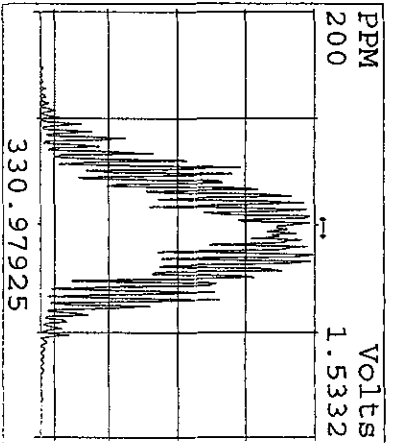
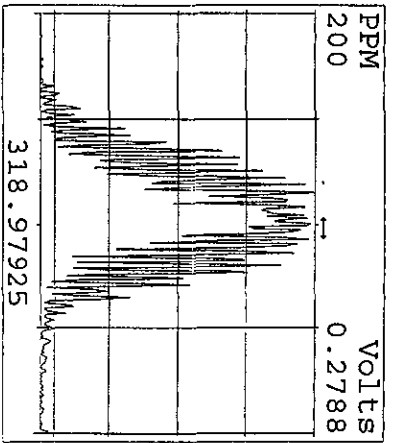
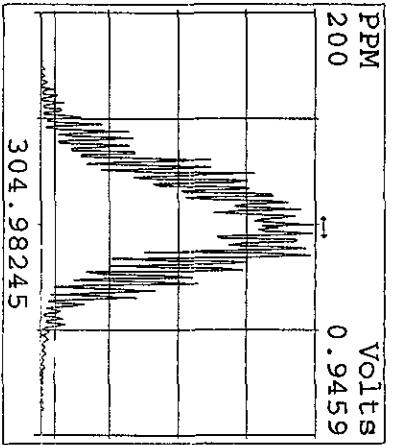
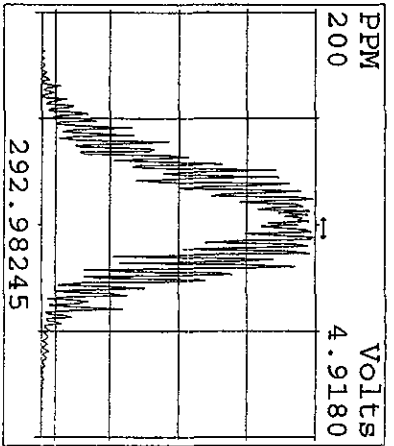
Run text: ST0927B File text: ST0927B :CS3 10DXN426  
 Run #19 Filename 27SE101D5 S: 31 I: 1  
 Acquired: 28-SEP-10 06:57:21 Processed: 28-SEP-10 09:23:04  
 Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5 Results: 27SE101D5TO9

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	348501000	0.83 y	17:42	-	100.00	-	n
13C-2,3,7,8-TCDF	576717000	0.80 y	17:11	1.65	100.00	5.9	n
2,3,7,8-TCDF	62830700	0.78 y	17:12	1.09	10.00	10.7	n
Total TCDF	63180594	0.94 n	16:50	1.09	10.00	10.7	n
13C-2,3,7,8-TCDD	332791000	0.81 y	17:54	0.95	100.00	3.7	n
2,3,7,8-TCDD	36608700	0.79 y	17:55	1.10	10.00	6.6	n
Total TCDD	36803463	0.54 n	16:47	1.10	10.00	6.6	n
37Cl-2,3,7,8-TCDD	40873200	1.00 y	17:55	1.23	10.00	0.2	n
13C-1,2,3,7,8-PeCDF	405911000	1.64 y	22:14	1.16	100.00	10.7	n
1,2,3,7,8-PeCDF	254076800	1.61 y	22:16	1.25	50.00	14.6	n
2,3,4,7,8-PeCDF	244602500	1.63 y	23:36	1.21	50.00	18.4	n
Total F2 PeCDF	502429918	1.58 y	20:54	1.23	100.00	16.5	n
Total F1 PeCDF	389153	0.60 n	15:15	1.23	100.00	16.5	n
13C-1,2,3,7,8-PeCDD	226108800	1.70 y	24:17	0.65	100.00	15.7	n
1,2,3,7,8-PeCDD	129307100	1.64 y	24:19	1.14	50.00	6.9	n
Total PeCDD	129307100	1.64 y	24:19	1.14	50.00	6.9	n
13C-1,2,3,7,8,9-HxCDD	329567000	1.27 y	30:45	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	364085000	0.53 y	29:27	1.10	100.00	11.5	n
1,2,3,4,7,8-HxCDF	260405000	1.26 y	29:27	1.43	50.00	13.4	n
1,2,3,6,7,8-HxCDF	277026000	1.28 y	29:36	1.52	50.00	-0.6	n
2,3,4,6,7,8-HxCDF	256576000	1.26 y	30:14	1.41	50.00	0.1	n
1,2,3,7,8,9-HxCDF	245111000	1.27 y	30:57	1.35	50.00	-3.6	n
Total HxCDF	1039118000	1.26 y	29:27	1.43	200.00	2.0	n
13C-1,2,3,6,7,8-HxCDD	255627000	1.27 y	30:27	0.78	100.00	4.9	n
1,2,3,4,7,8-HxCDD	154857800	1.27 y	30:23	1.21	50.00	8.2	n
1,2,3,6,7,8-HxCDD	181563400	1.28 y	30:28	1.42	50.00	24.5	n
1,2,3,7,8,9-HxCDD	192579800	1.27 y	30:46	1.51	50.00	11.3	n
Total HxCDD	529001000	1.27 y	30:23	1.38	150.00	14.5	n
13C-1,2,3,4,6,7,8-HpCDF	299206800	0.45 y	32:22	0.91	100.00	-5.0	n
1,2,3,4,6,7,8-HpCDF	239908000	1.04 y	32:23	1.60	50.00	13.9	n
1,2,3,4,7,8,9-HpCDF	195214300	1.05 y	33:34	1.30	50.00	5.6	n
Total HpCDF	435122300	1.04 y	32:23	1.45	100.00	10.0	n
13C-1,2,3,4,6,7,8-HpCDD	221106000	1.08 y	33:14	0.67	100.00	-5.8	n
1,2,3,4,6,7,8-HpCDD	141103900	1.08 y	33:14	1.28	50.00	12.5	n
Total HpCDD	141441326	1.26 n	32:39	1.28	50.00	12.5	n
13C-OCDD	206686000	0.95 y	35:49	0.31	200.00	-11.1	n
OCDF	220096000	0.90 y	35:56	2.13	100.00	0.6	n
OCDD	143603200	0.90 y	35:49	1.39	100.00	1.3	n

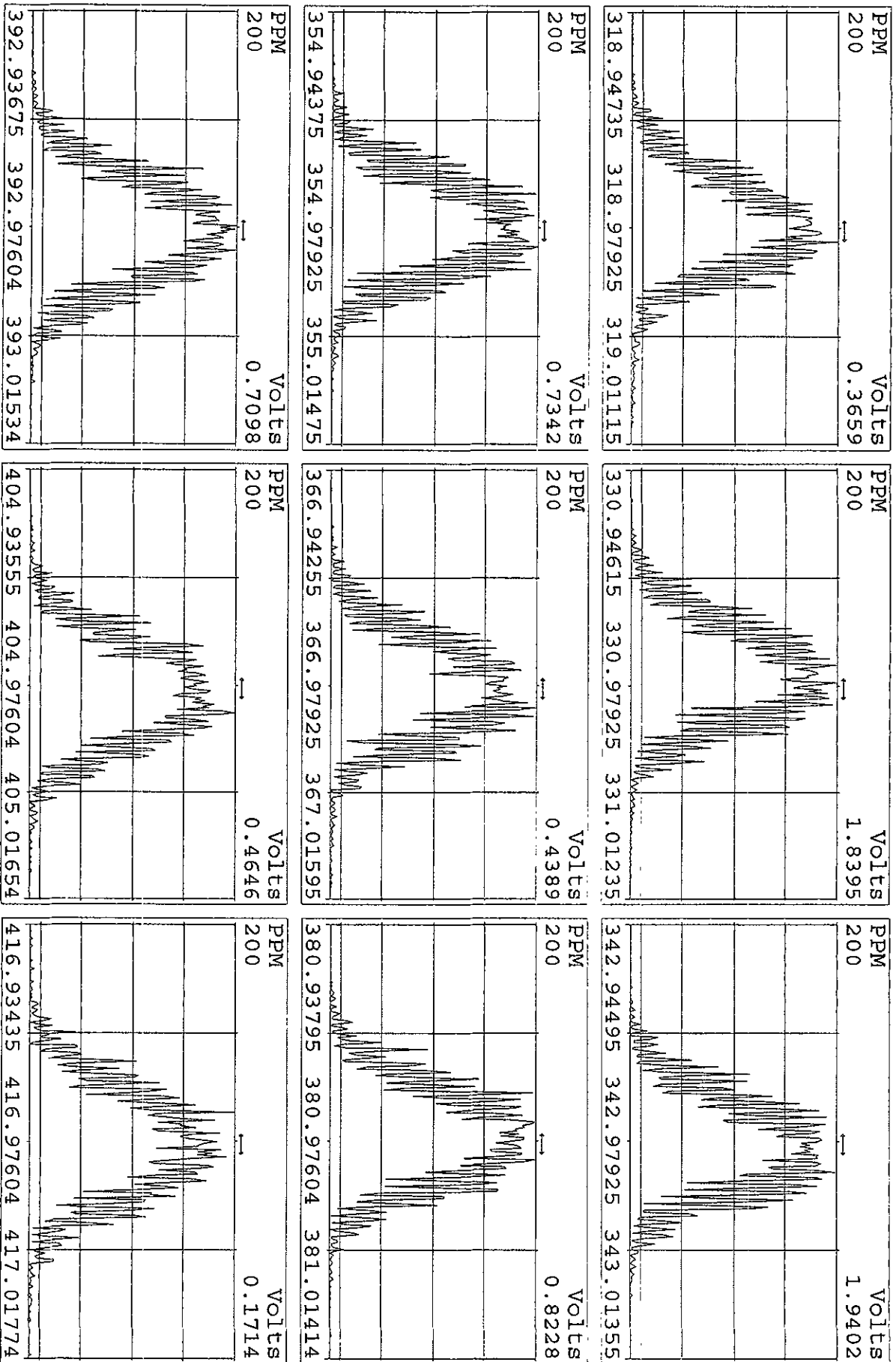
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27SE101D5	4	L6DLJ-1-AC	G0H310592-1	10	8290/SOLID		10.24000	g
27SE101D5	5	L6DLK-1-AC	G0H310592-2	10	8290/SOLID		9.62000	g
27SE101D5	6	L6DLL-1-AC	G0H310592-3	10	8290/SOLID		10.09000	g
27SE101D5	7	L6DLM-1-AC	G0H310592-4	10	8290/SOLID		9.70000	g
27SE101D5	8	L6DLN-1-AC	G0H310592-5	10	8290/SOLID		10.21000	g
27SE101D5	9	L6DLP-1-AC	G0H310592-6	10	8290/SOLID		10.54000	g
27SE101D5	10	L6DLQ-1-AC	G0H310592-7	10	8290/SOLID		10.47000	g
27SE101D5	11	L669G-1-AA	G0I180502-2	20	1613B/WATER	57	1.03789	L
27SE101D5	12	L669H-1-AA	G0I180502-3	20	1613B/WATER		1.02614	L
27SE101D5	13	L669J-1-AA	G0I180502-4	20	1613B/WATER		1.03179	L
27SE101D5	14	L621E-1-AC	G0I160000-192C (592)	10	8290/SOLID	48	10.00000	g
27SE101D5	15	CP0927A	DB-5 CPSM 3732-08				1.00000	
27SE101D5	16	ST0927A	CS3 10DXN426				1.00000	
27SE101D5	17	L7EX6-1-AA	G0I230000-392B (491)	20	TO-9/AIR	58	0.50000	Sam
27SE101D5	18	L6QQG-1-AA	G0I090559-1	20	8290/SOLID	50	10.18000	g
27SE101D5	19	L7DQH-1-AA	G0I230491-1	20	TO-9/AIR	58	0.50000	Sam
27SE101D5	20	L7DQM-1-AA	G0I230491-3	20	TO-9/AIR		0.50000	Sam
27SE101D5	21	L7DQP-1-AA	G0I230491-5	20	TO-9/AIR		0.50000	Sam
27SE101D5	22	L7DQR-1-AA	G0I230491-7	20	TO-9/AIR		0.50000	Sam
27SE101D5	23	L7DQ6-1-AA	G0I230491-13	20	TO-9/AIR		0.50000	Sam
27SE101D5	24	L7DRA-1-AA	G0I230491-15	20	TO-9/AIR		0.50000	Sam
27SE101D5	25	L7DRF-1-AA	G0I230491-17	20	TO-9/AIR		0.50000	Sam
27SE101D5	26	L7DRH-1-AA	G0I230491-19	20	TO-9/AIR		0.50000	Sam
27SE101D5	27	L6DLR-1-AC	G0H310592-8	10	8290/SOLID	48	9.82000	g
27SE101D5	28	L7EX6-1-AC	G0I230000-392C	20	TO-9/AIR	58	0.50000	Sam
27SE101D5	29	L7EX6-1-AD	G0I230000-392L	20	TO-9/AIR		0.50000	Sam
27SE101D5	30	CP0927B	DB-5 CPSM 3732-08				1.00000	
27SE101D5	31	ST0927B	CS3 10DXN426				1.00000	
27SE101D5	32	SB0927	Solvent Blank C-14				1.00000	
27SE101D5	33	L6DLT-1-AC	G0H310592-9	10	8290/SOLID	48	9.95000	g
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27SE101D5	36	L6DL6-1-AC	G0H310592-12	10	8290/SOLID		10.25000	g
27SE101D5	37	L6DL8-1-AC	G0H310592-13	10	8290/SOLID		9.58000	g
27SE101D5	38	L6DL8-1-AD	G0H310592-13S	10	8290/SOLID		10.07000	g
27SE101D5	39	L6DL8-1-AE	G0H310592-13D	10	8290/SOLID		9.86000	g
27SE101D5	40	L6DL9-1-AC	G0H310592-14	10	8290/SOLID		10.22000	g
27SE101D5	41	L6DMC-1-AC	G0H310592-15	10	8290/SOLID		10.15000	g
27SE101D5	42	L6DMD-1-AC	G0H310592-16	10	8290/SOLID		9.90000	g
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27SE101D5	44	ST0927C	CS3 10DXN426				1.00000	
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27SE101D5	50						1.00000	
27SE101D5	51		KSS, AM 09-27-10				1.00000	
27SE101D5	52						1.00000	

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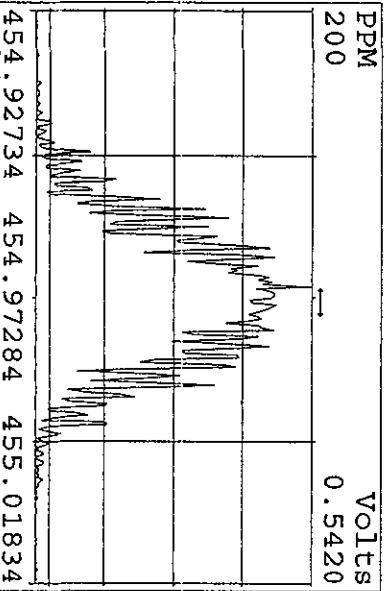
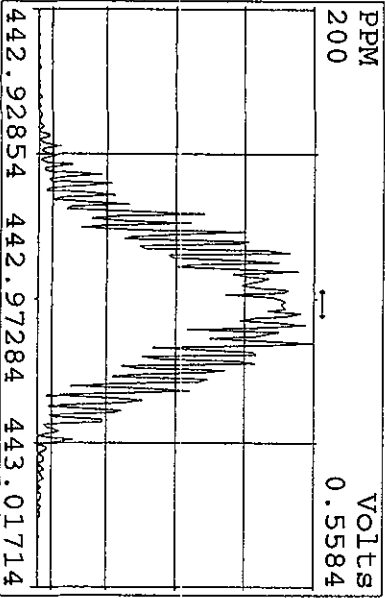
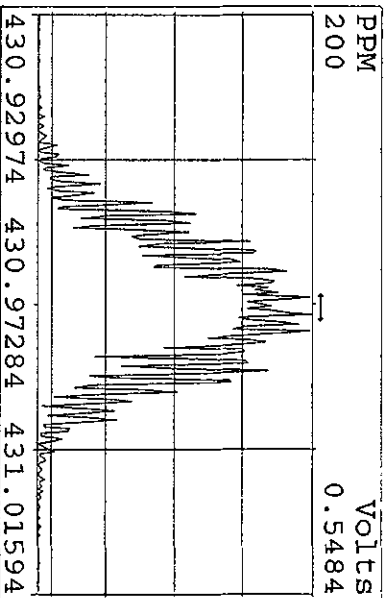
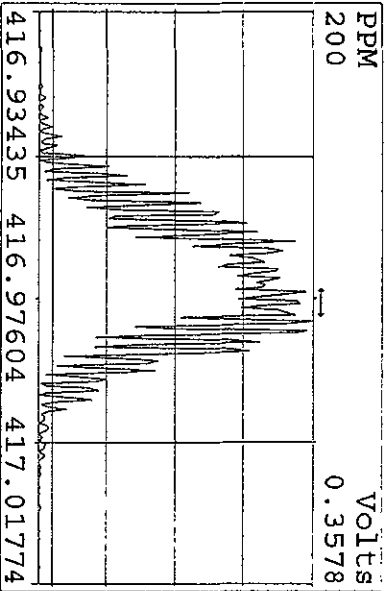
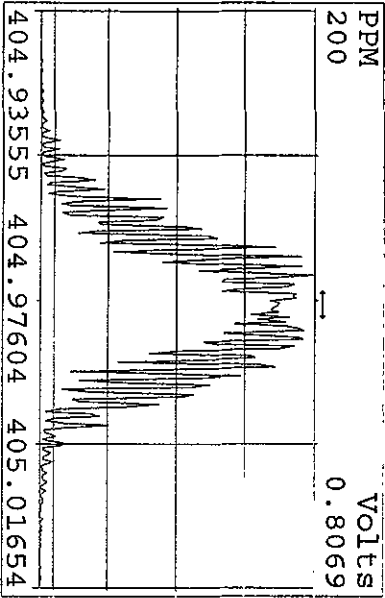
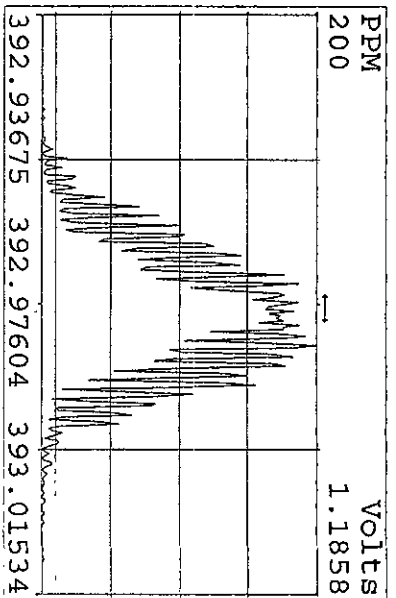
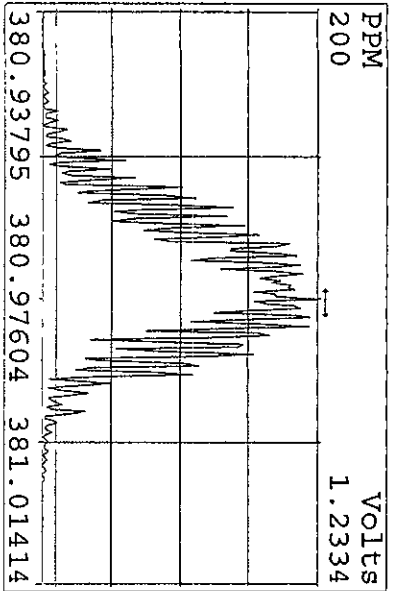
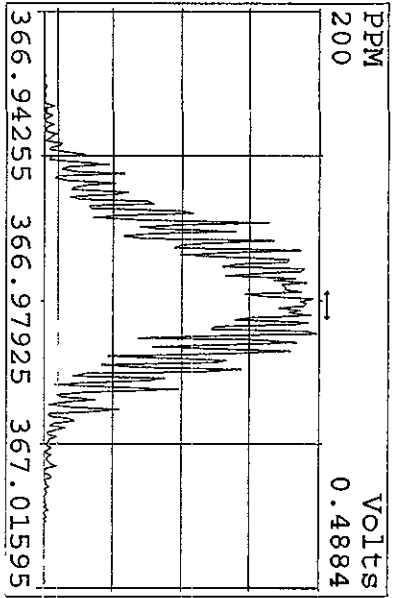
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Experiment: DIOXINRES Function: 1 Reference: PFK



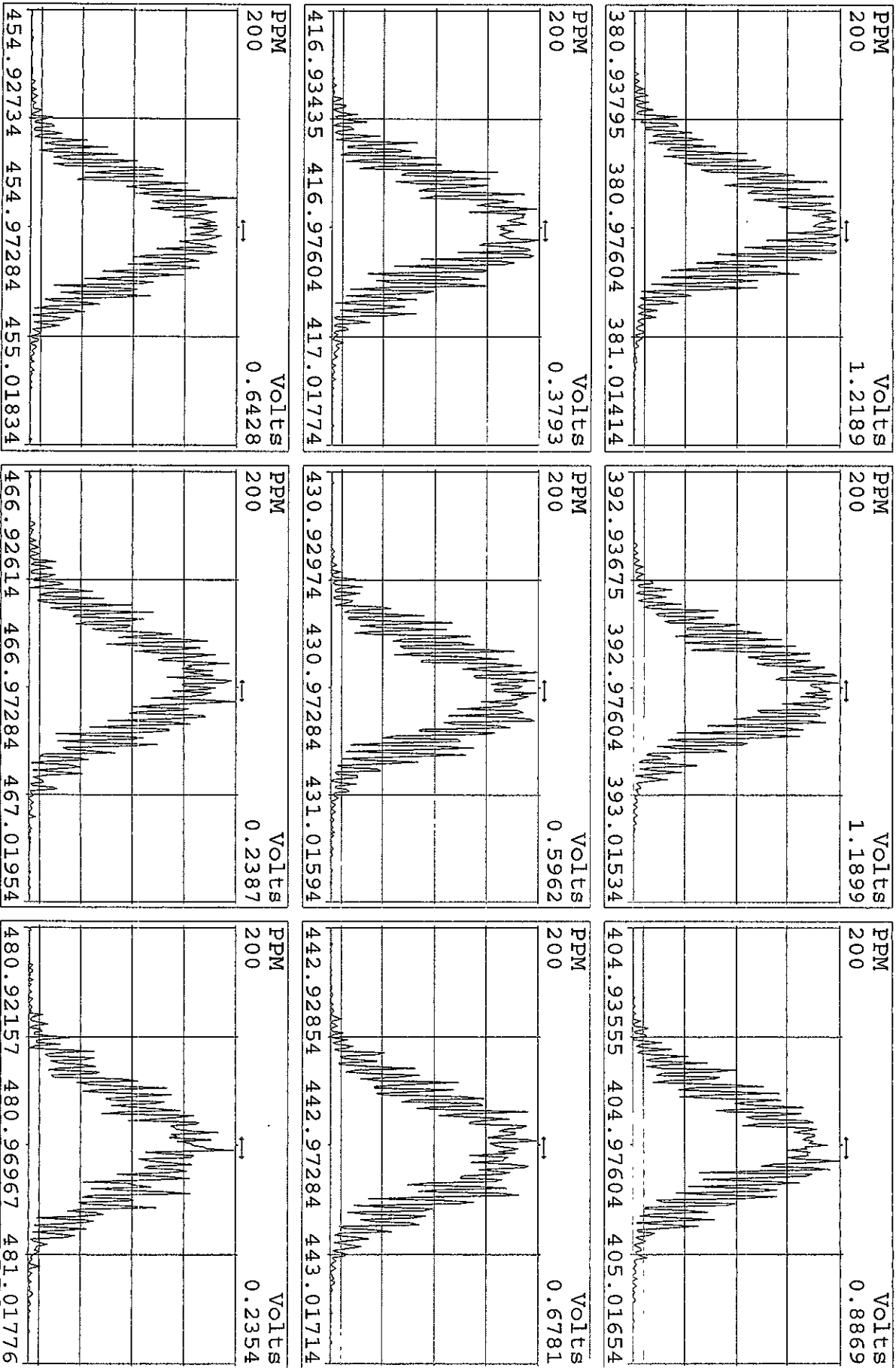
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 Experiment: DIOXINRES Function: 2 Reference: PFK



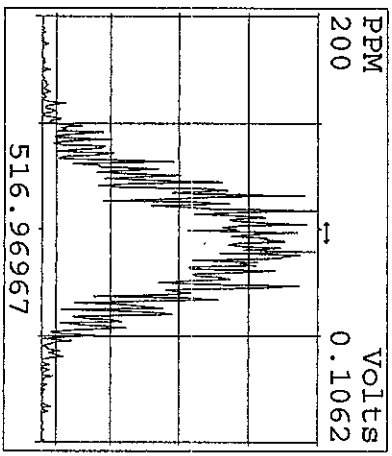
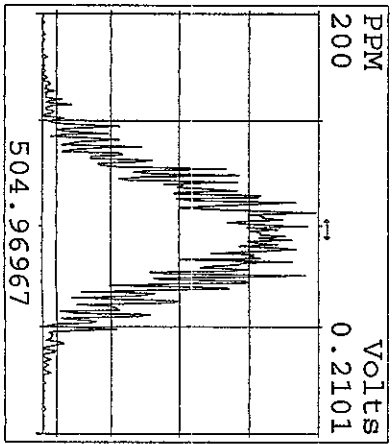
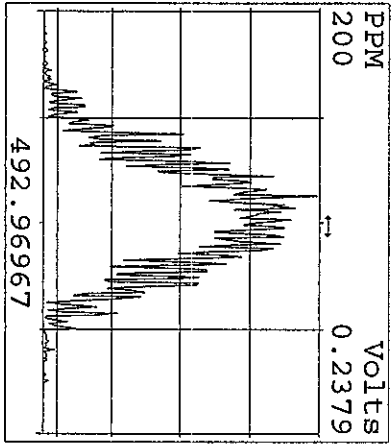
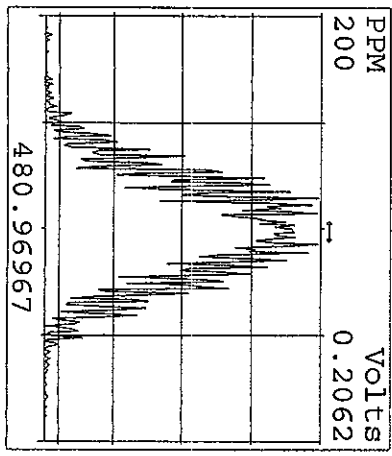
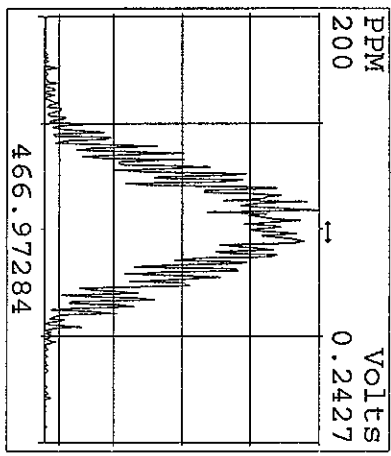
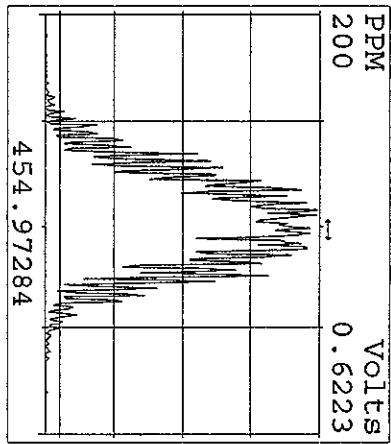
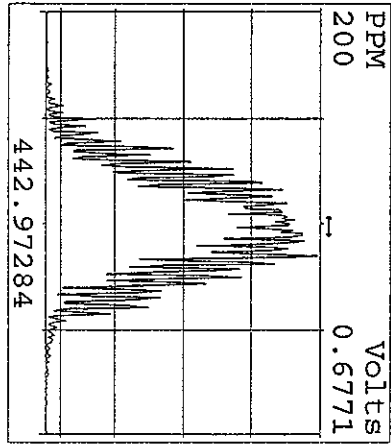
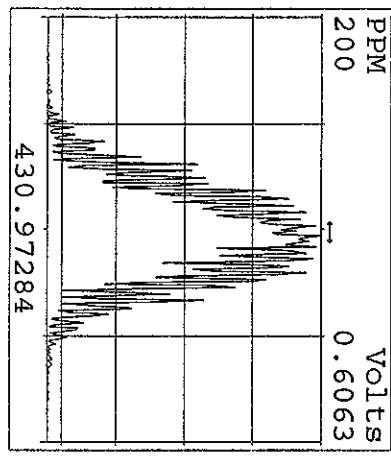
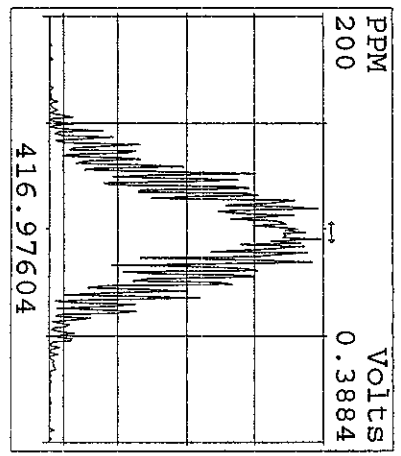
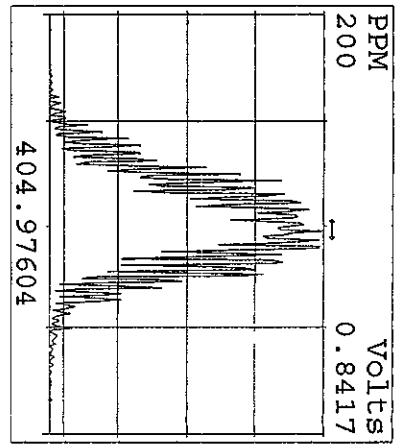
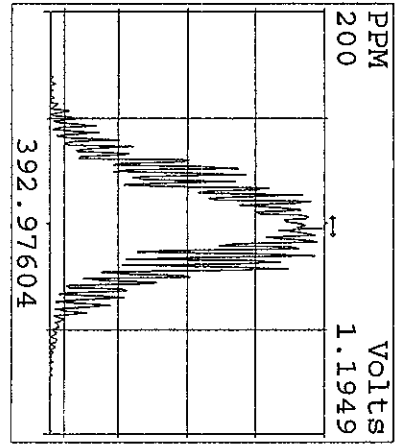
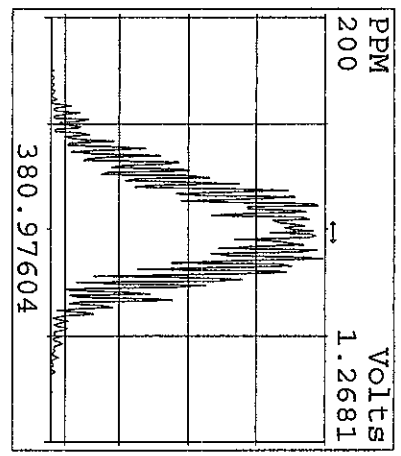
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 Experiment: DIOXINRES Function: 3 Reference: PFK



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 Experiment: DIOXINRES Function: 4 Reference: PK

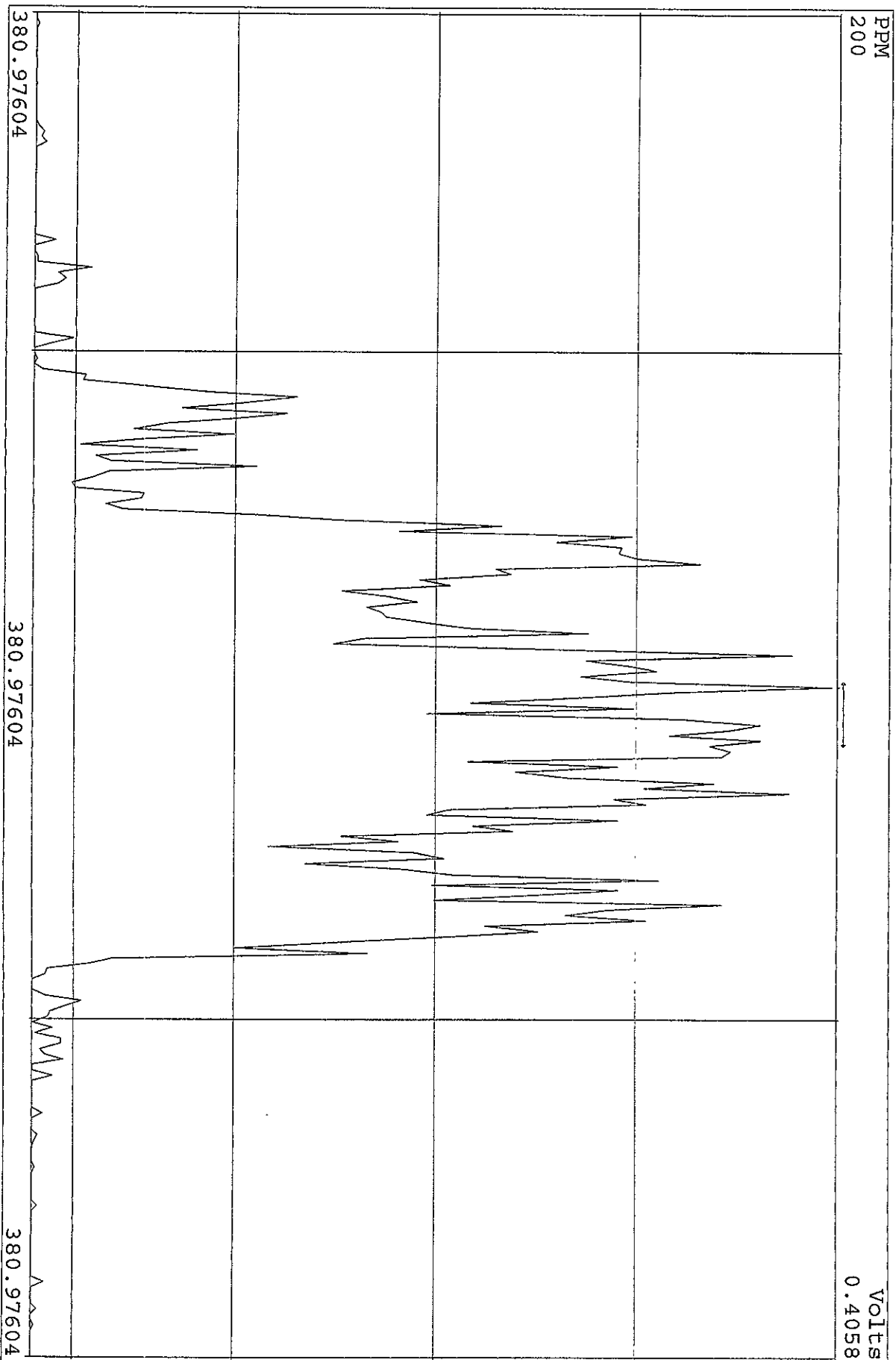


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Experiment: DIOXINRES Function: 5 Reference: PFK

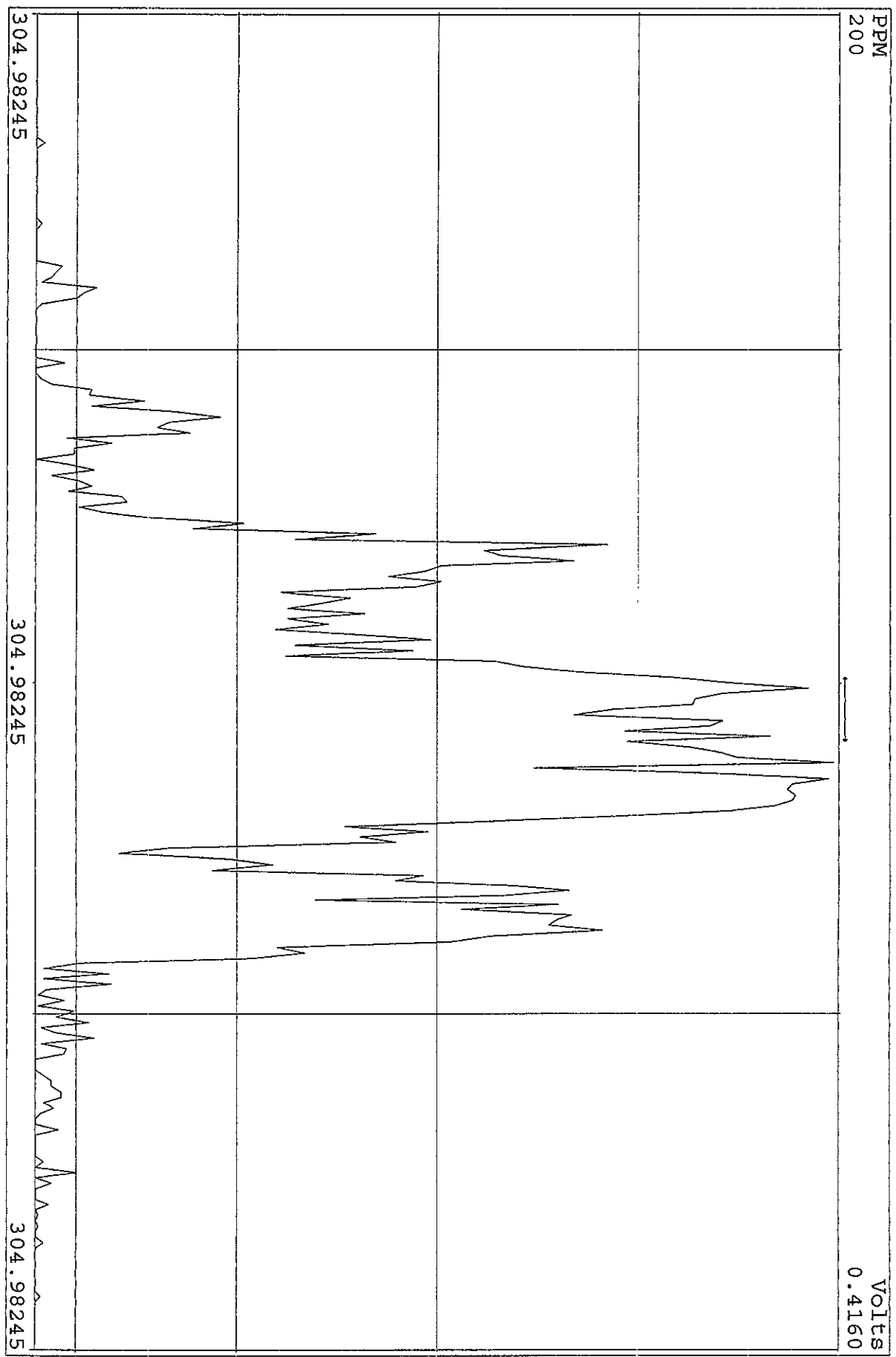




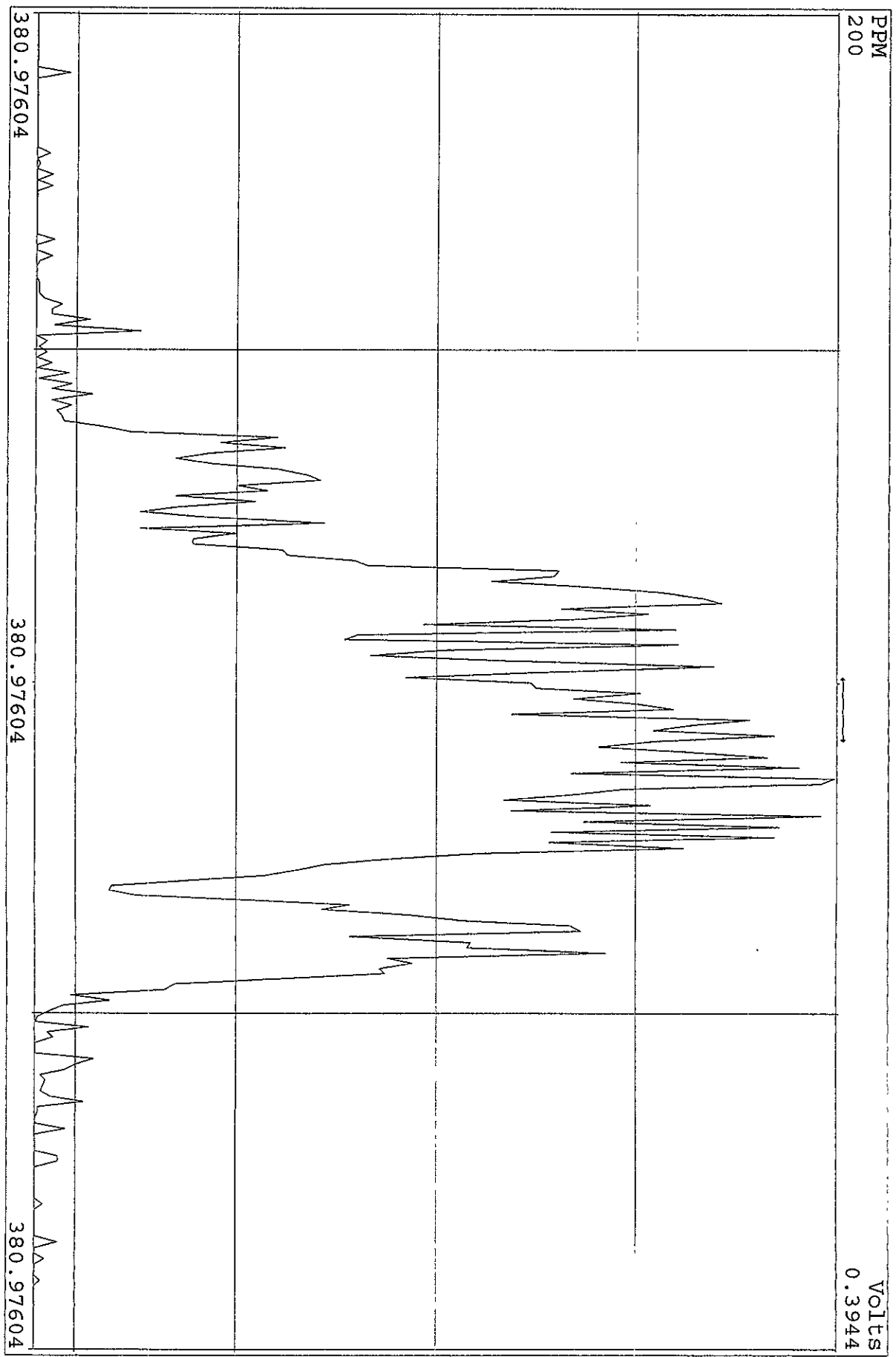
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Experiment: DIOXINRES Function: 6



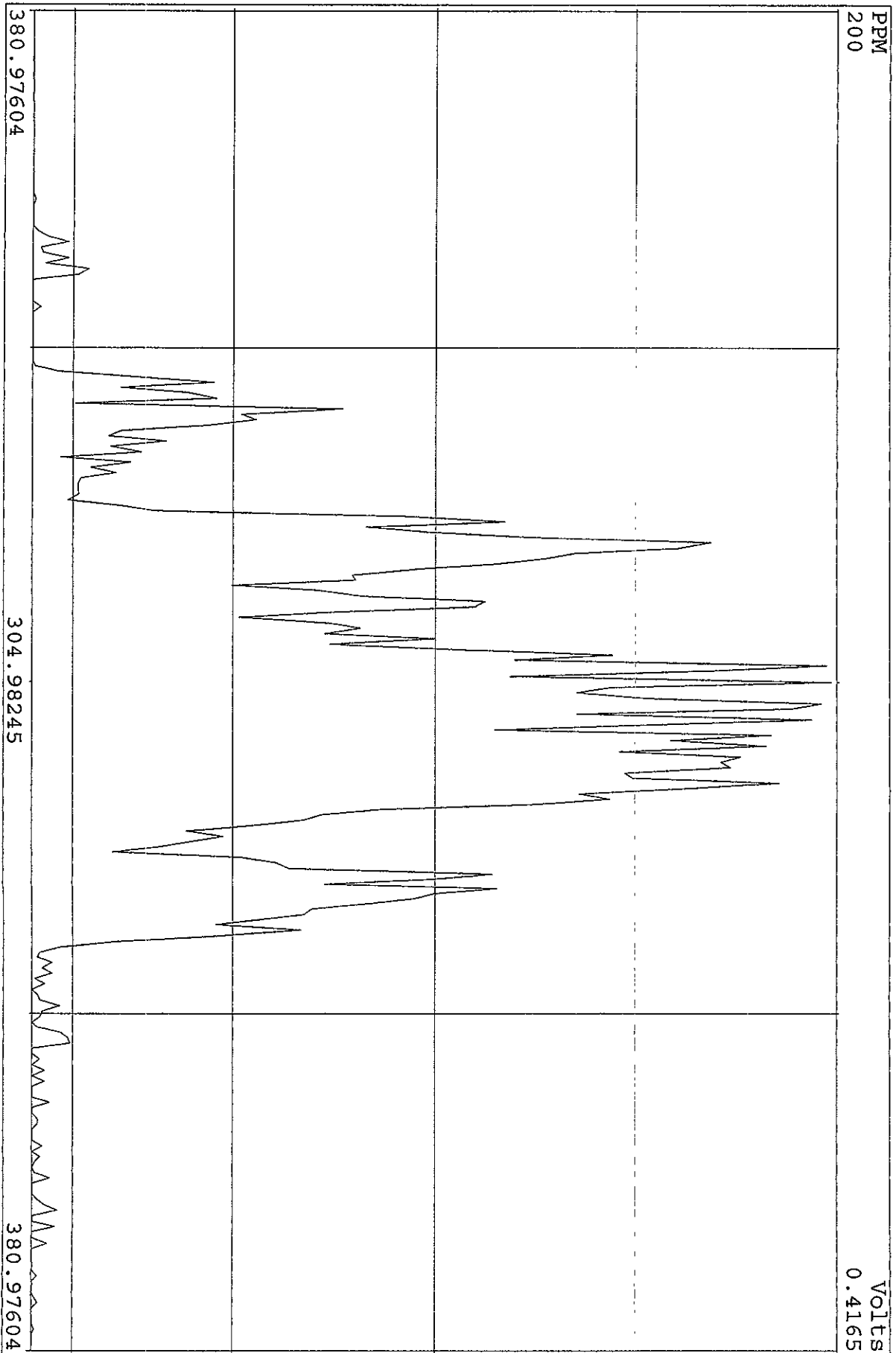
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Experiment: DIOXINRES Function: 7



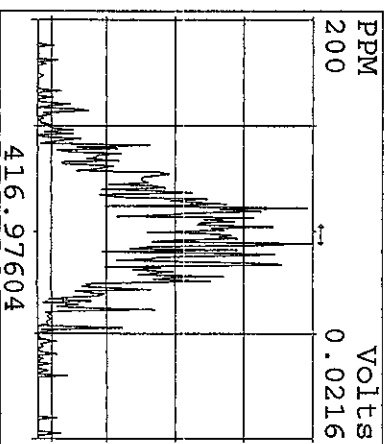
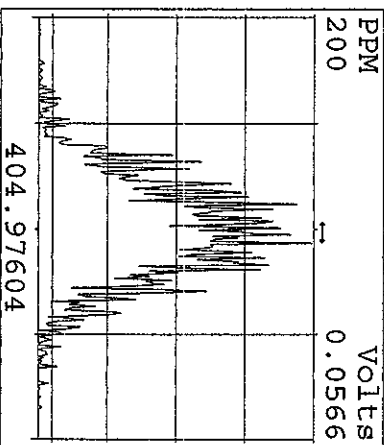
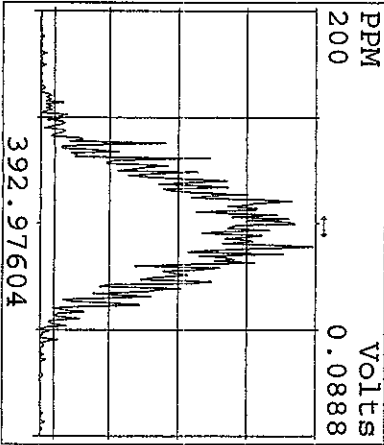
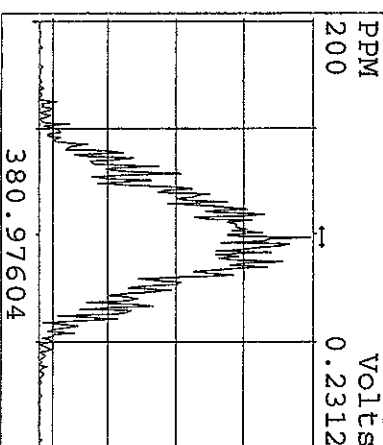
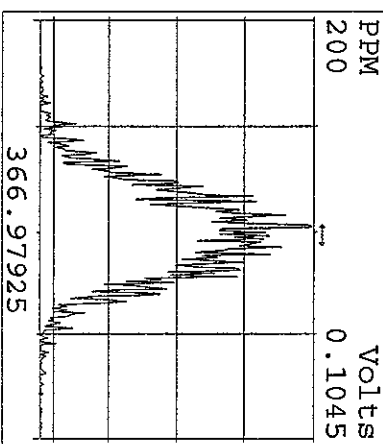
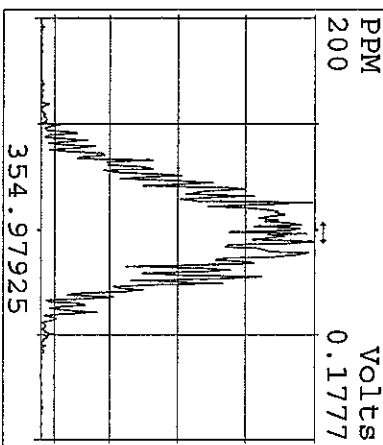
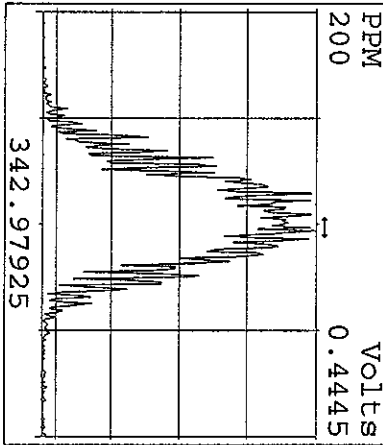
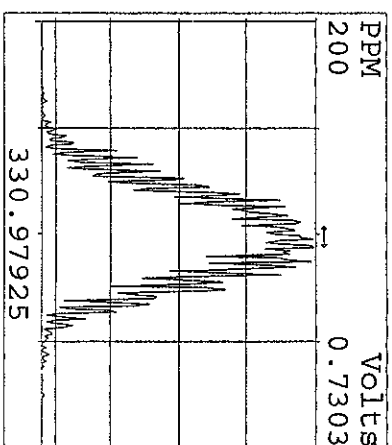
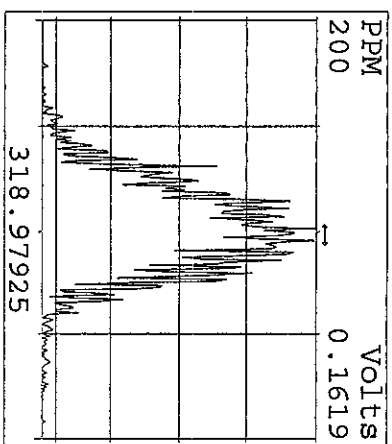
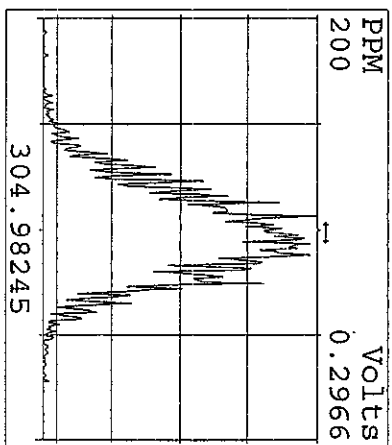
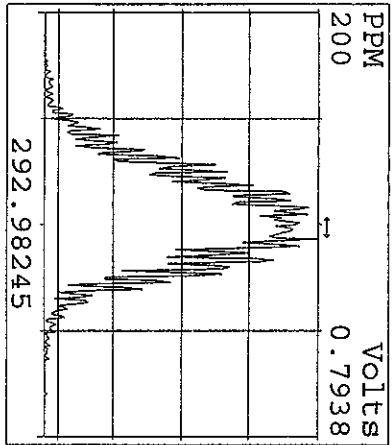
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Experiment: DIOXINRES Function: 6



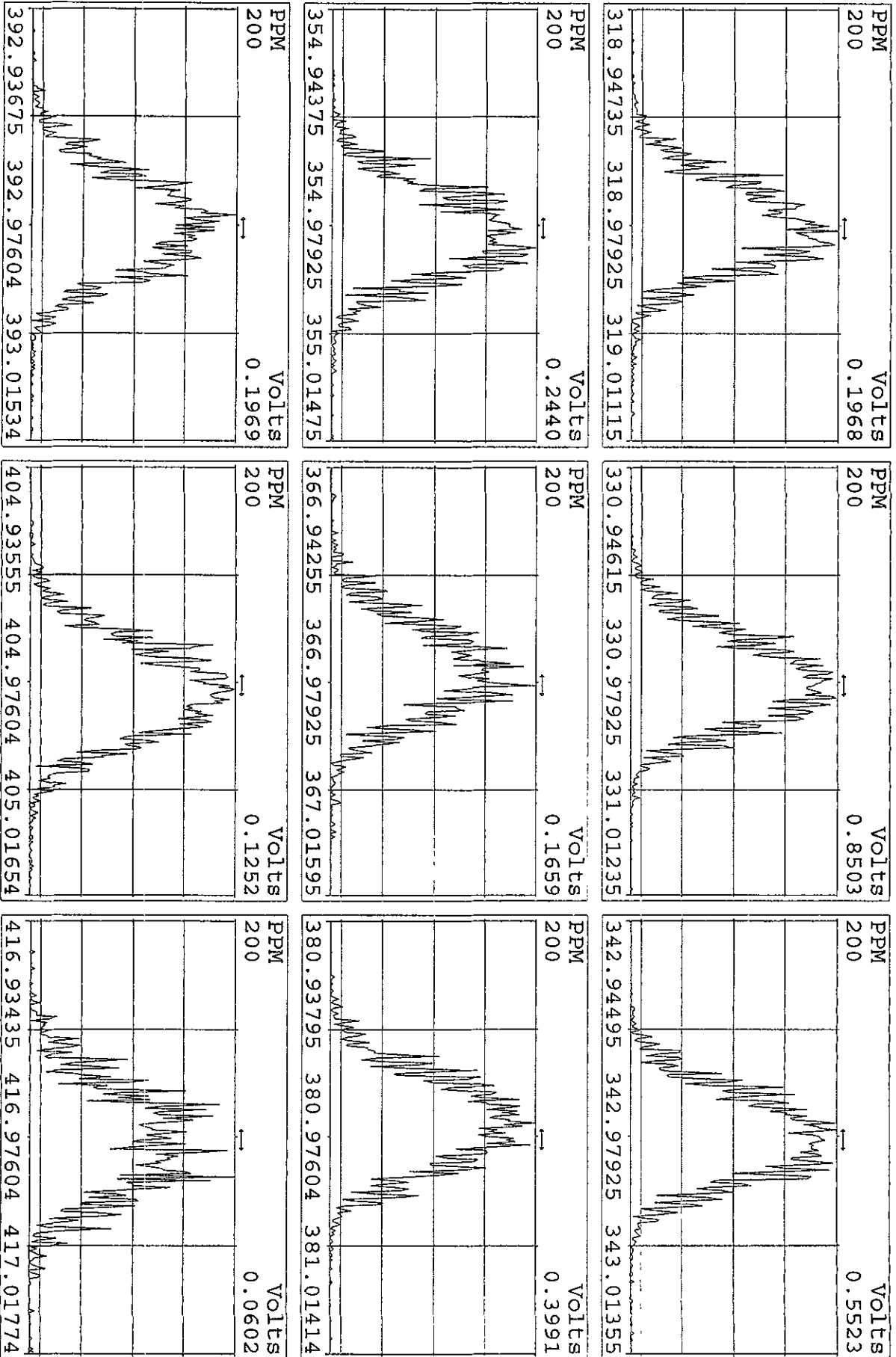
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Experiment: DIOXINRES Function: 7



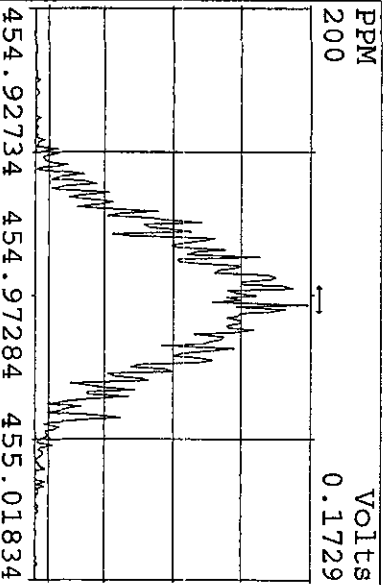
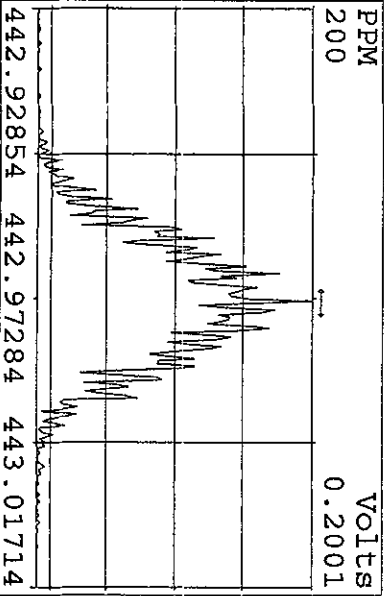
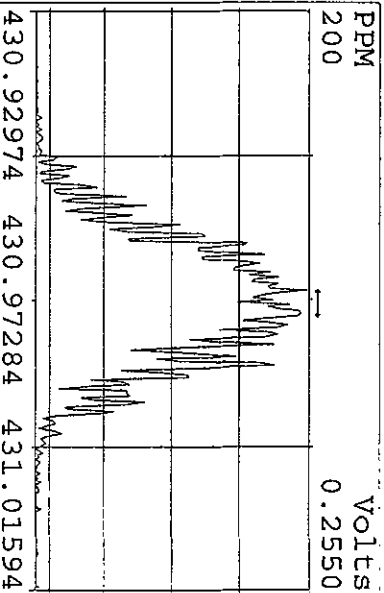
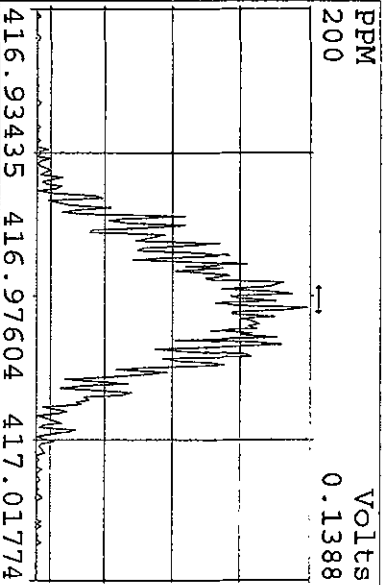
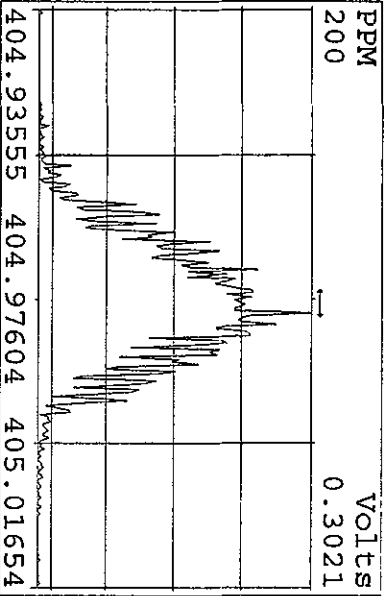
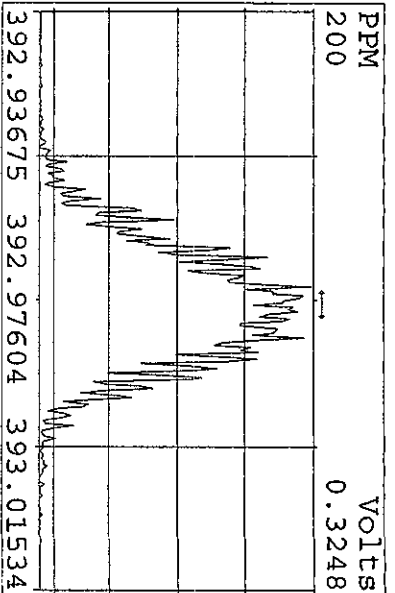
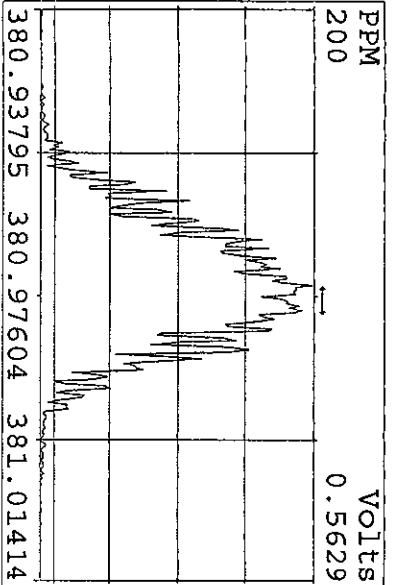
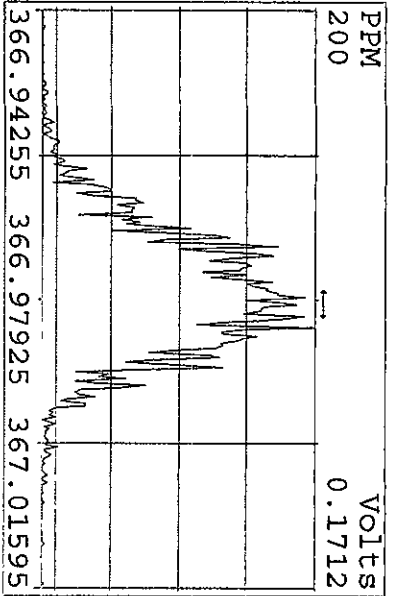
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Experiment:DIOXINRES Function:1 Reference:PFK



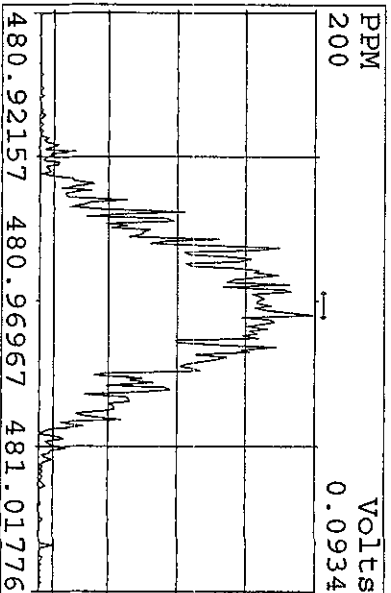
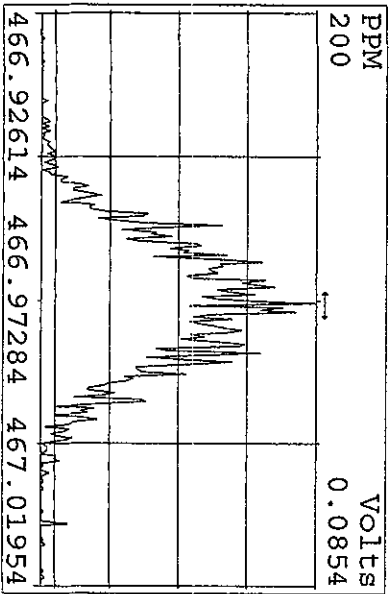
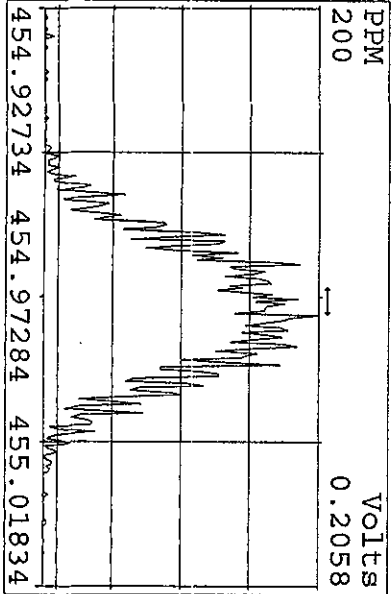
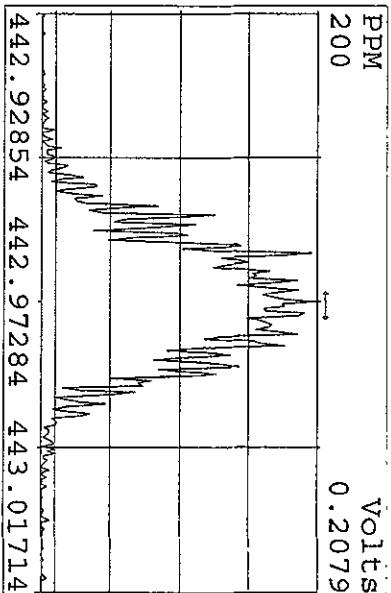
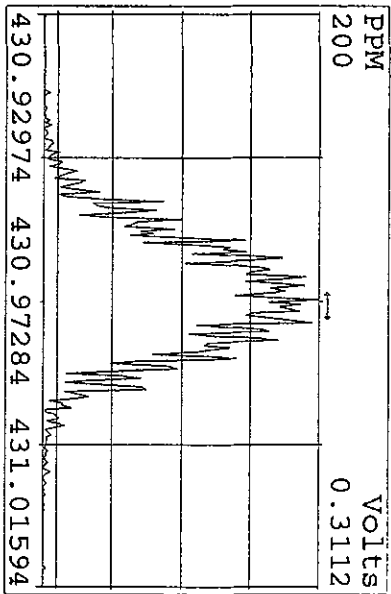
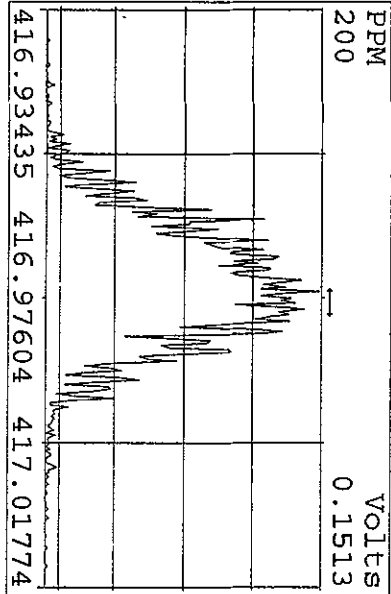
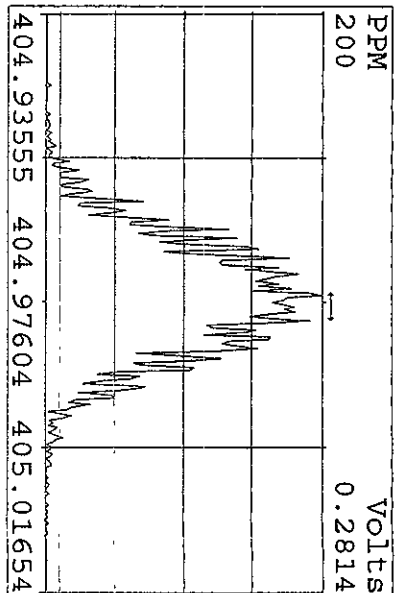
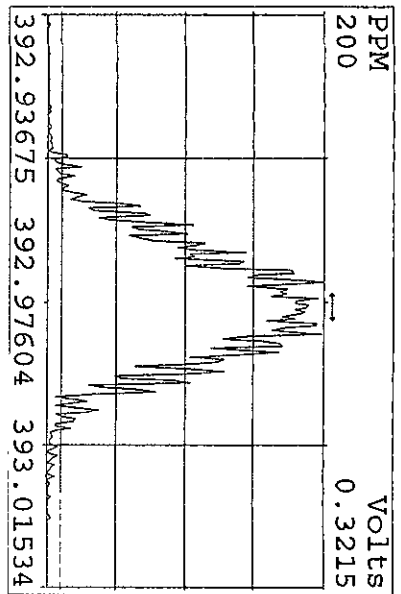
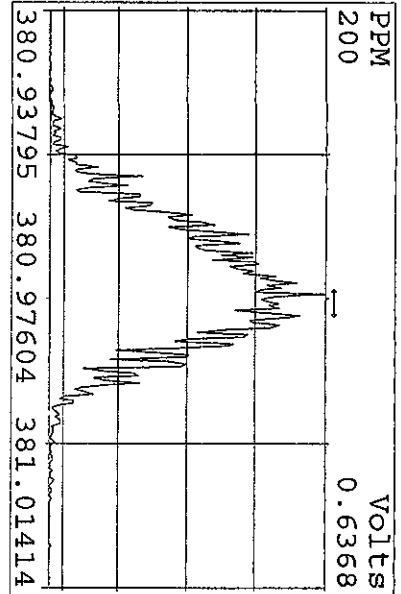
Peak Locate Examination: 28-SEP-2010:08:37 File: ENDRES27SE101D5  
Experiment: DIOXINRES Function: 2 Reference: PFK



Peak Locate Examination: 28-SEP-2010:08:38 File: ENDRES27SE101D5  
 Experiment: DIOXINRES Function: 3 Reference: PFK

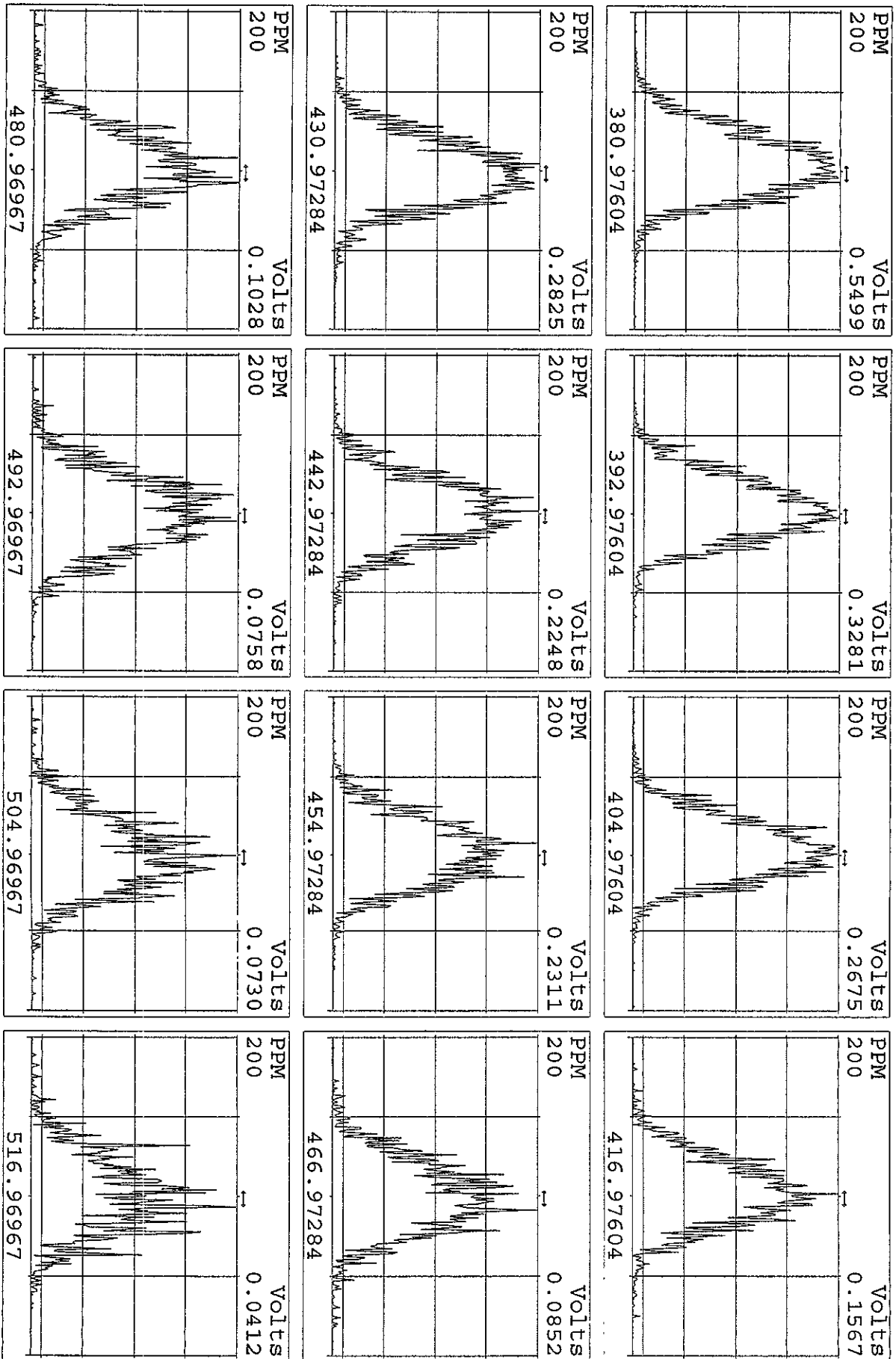


Peak Locate Examination: 28-SEP-2010:08:38 File: ENDRESS27SE101D5  
 Experiment: DIOXINRES Function: 4 Reference: PFK

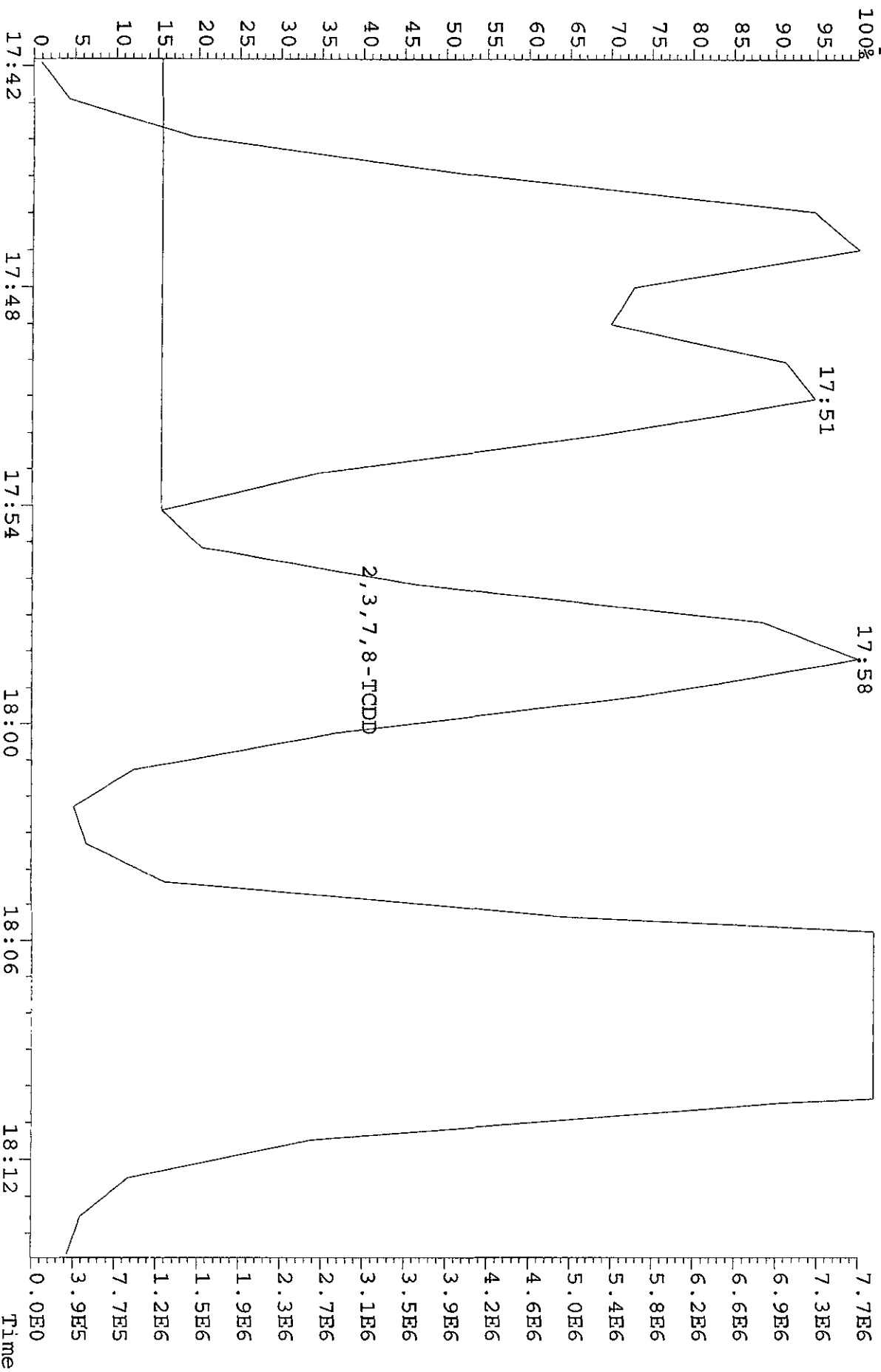




Peak Locate Examination:28-SEP-2010:08:39 File:ENDRES27SEI01D5  
Experiment:DIOXINRES Function:5 Reference:PFK



File: 27SEI01D5 #1-382 Acq: 27-SEP-2010 19:29:50 GC EI+ Voltage SIR 70SE  
321.8936 S:15 Exp: DIOXINRES  
Sample Text: CP0927A :DB-5 CPSM 3732-08



Run: 27SE101D5 Analyte: TO9 Cal: TO90914101D5

ST0914B : CS1 10DXN342 ST0914A : CS2 10DXN335 ST0914 : CS3 10DXN426  
 ST0914D : CS4 10DXN337 ST0914C : CS5 10DXN339

14SE101D5 14SE101D5 14SE101D5 14SE101D5 14SE101D5 14SE101D5

Name	Mean	S. D.	%RSD	S4 RRF1	S3 RRF2	S2 RRF3	S6 RRF4	S5 RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.563	0.037	2.40 %	1.57	1.61	1.55	1.57	1.51
2,3,7,8-TCDF	0.984	0.116	11.8 %	0.90	0.82	1.05	1.08	1.07
Total TCDF	0.984	0.116	11.8 %	0.90	0.82	1.05	1.08	1.07
13C-2,3,7,8-TCDD	0.921	0.041	4.42 %	0.95	0.94	0.96	0.87	0.88
2,3,7,8-TCDD	1.032	0.111	10.8 %	0.91	0.92	1.06	1.14	1.13
Total TCDD	1.032	0.111	10.8 %	0.91	0.92	1.06	1.14	1.13
37Cl-2,3,7,8-TCDD	1.226	0.171	14.0 %	1.03	1.10	1.20	1.37	1.43

13C-1,2,3,7,8-PeCDF	1.053	0.139	13.2 %	1.15	1.20	1.10	0.96	0.86
1,2,3,7,8-PeCDF	1.092	0.151	13.8 %	0.89	0.97	1.22	1.19	1.19
2,3,4,7,8-PeCDF	1.018	0.140	13.8 %	0.82	0.92	1.14	1.10	1.11
Total F2 PeCDF	1.055	0.145	13.8 %	0.85	0.95	1.18	1.15	1.15
Total F1 PeCDF	1.055	0.145	13.8 %	0.85	0.95	1.18	1.15	1.15
13C-1,2,3,7,8-PeCDD	0.561	0.085	15.1 %	0.61	0.65	0.59	0.51	0.44
1,2,3,7,8-PeCDD	1.070	0.156	14.6 %	0.89	0.92	1.16	1.16	1.22
Total PeCDD	1.070	0.156	14.6 %	0.89	0.92	1.16	1.16	1.22

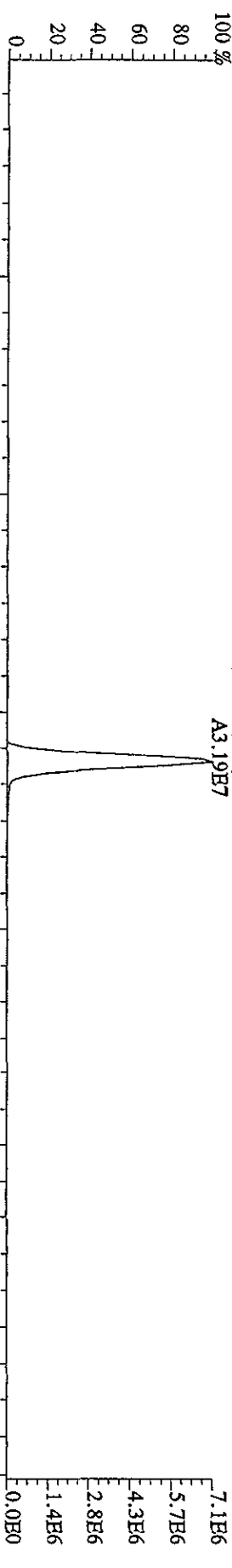
3C-1,2,3,7,8,9-HxCDD - %

3C-1,2,3,4,7,8-HxCDF	0.991	0.061	6.19 %	1.00	1.05	1.00	1.01	0.89
1,2,3,4,7,8-HxCDF	1.261	0.122	9.70 %	1.11	1.21	1.40	1.38	1.20
1,2,3,6,7,8-HxCDF	1.531	0.150	9.79 %	1.33	1.47	1.58	1.53	1.74
2,3,4,6,7,8-HxCDF	1.407	0.159	11.3 %	1.20	1.29	1.52	1.43	1.59
1,2,3,7,8,9-HxCDF	1.396	0.174	12.5 %	1.16	1.30	1.53	1.41	1.58
Total HxCDF	1.399	0.137	9.83 %	1.20	1.32	1.51	1.44	1.53

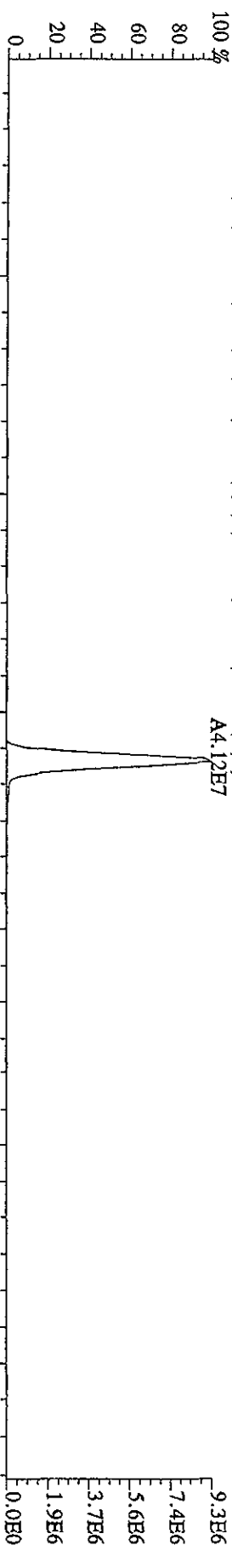
3C-1,2,3,6,7,8-HxCDD	0.739	0.034	4.62 %	0.75	0.75	0.73	0.69	0.78
1,2,3,4,7,8-HxCDD	1.120	0.159	14.2 %	0.89	1.05	1.25	1.28	1.13

1,2,3,6,7,8-HxCDD	1.141	0.145	12.7	%	0.94	1.04	1.25	1.26	1.22
1,2,3,7,8,9-HxCDD	1.354	0.182	13.4	%	1.14	1.23	1.58	1.49	1.32
Total HxCDD	1.205	0.158	13.1	%	0.99	1.11	1.36	1.35	1.22
-1,2,3,4,6,7,8-HpCDF	0.956	0.098	10.2	%	1.05	1.07	0.89	0.86	0.91
1,2,3,4,6,7,8-HpCDF	1.408	0.193	13.7	%	1.12	1.32	1.61	1.51	1.48
1,2,3,4,7,8,9-HpCDF	1.236	0.121	9.80	%	1.06	1.17	1.36	1.28	1.31
Total HpCDF	1.322	0.157	11.9	%	1.09	1.24	1.49	1.39	1.40
-1,2,3,4,6,7,8-HpCDD	0.712	0.085	11.9	%	0.78	0.82	0.67	0.63	0.66
1,2,3,4,6,7,8-HpCDD	1.134	0.139	12.3	%	0.94	1.03	1.26	1.21	1.23
Total HpCDD	1.134	0.139	12.3	%	0.94	1.03	1.26	1.21	1.23
13C-OCDD	0.353	0.054	15.4	%	0.40	0.42	0.32	0.29	0.34
OCDF	2.118	0.323	15.3	%	1.63	1.95	2.36	2.29	2.36
OCDD	1.371	0.158	11.5	%	1.17	1.23	1.52	1.47	1.47

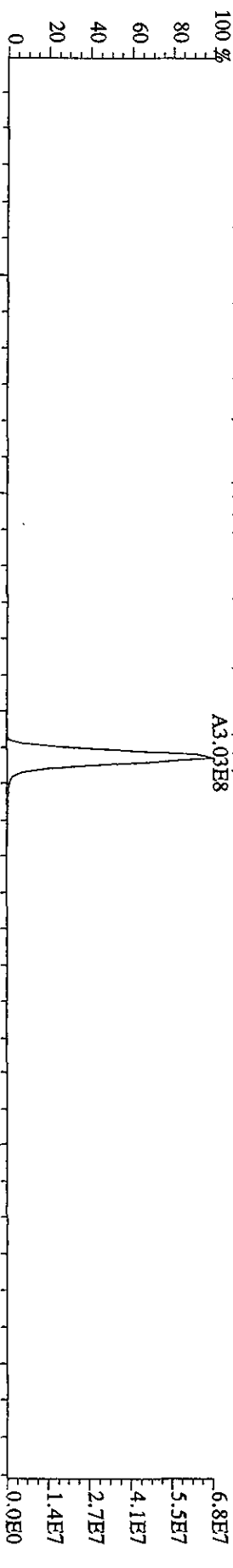
File:27SE101D5 #1-383 Acq:27-SEP-2010 20:12:49 GC EI+ Voltage SIR 70SE  
Sample#16 Text:ST0927A :CS3 10DXN426 Exp:DIOXINRES  
303.9016 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5184.0,1.00%,F,T)  
100% A3.19E7



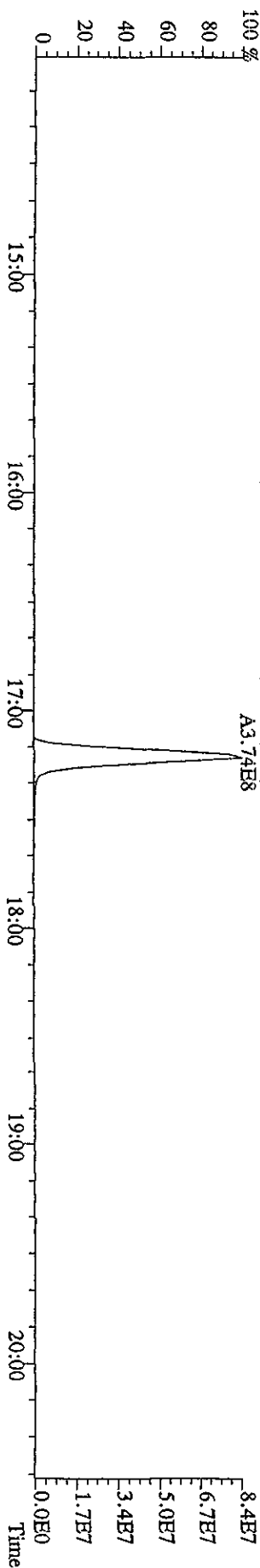
305.8987 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5748.0,1.00%,F,T)  
100% A4.12E7



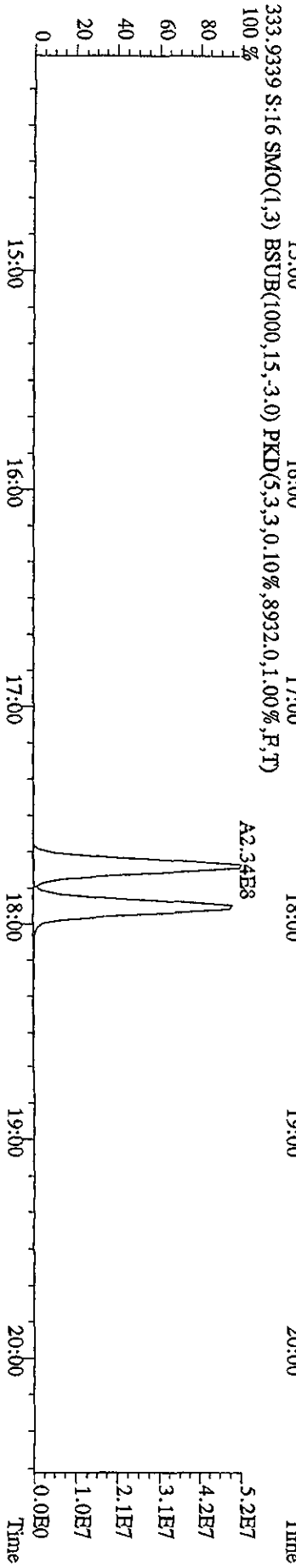
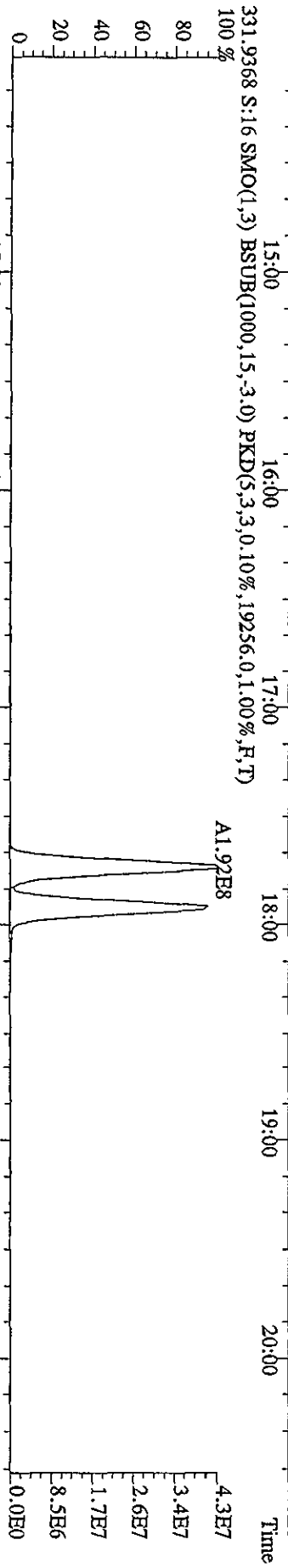
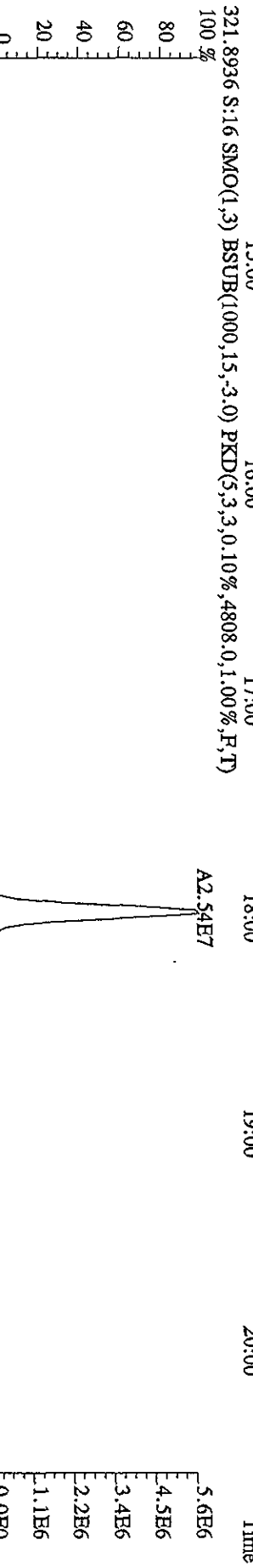
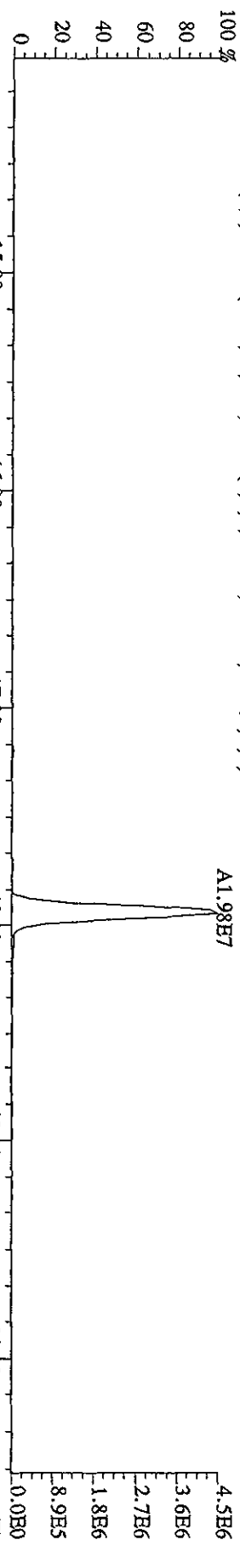
315.9419 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8424.0,1.00%,F,T)  
100% A3.03E8



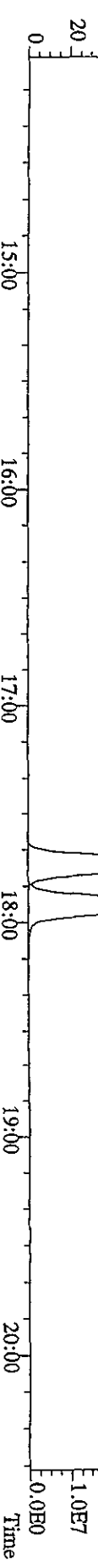
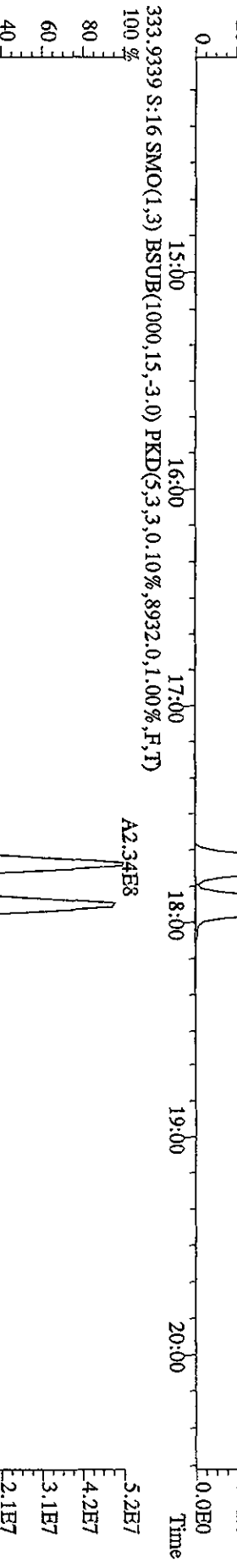
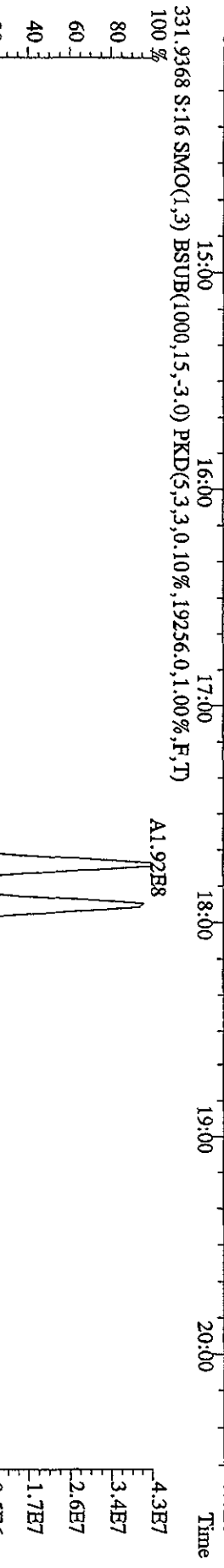
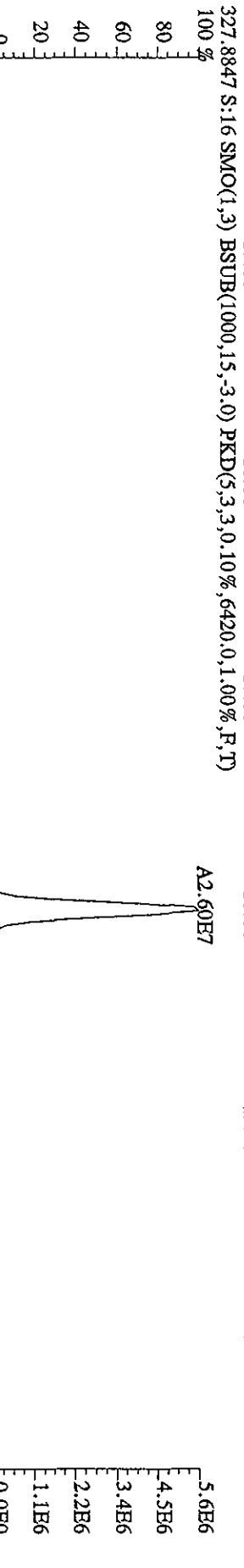
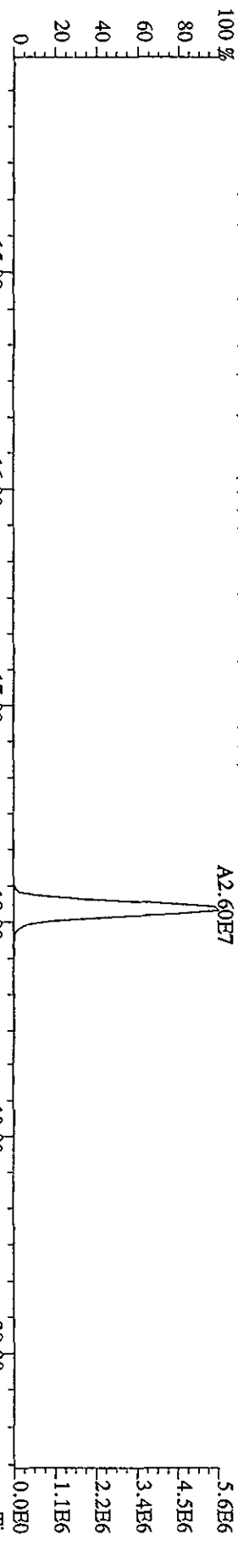
317.9389 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12568.0,1.00%,F,T)  
100% A3.74E8



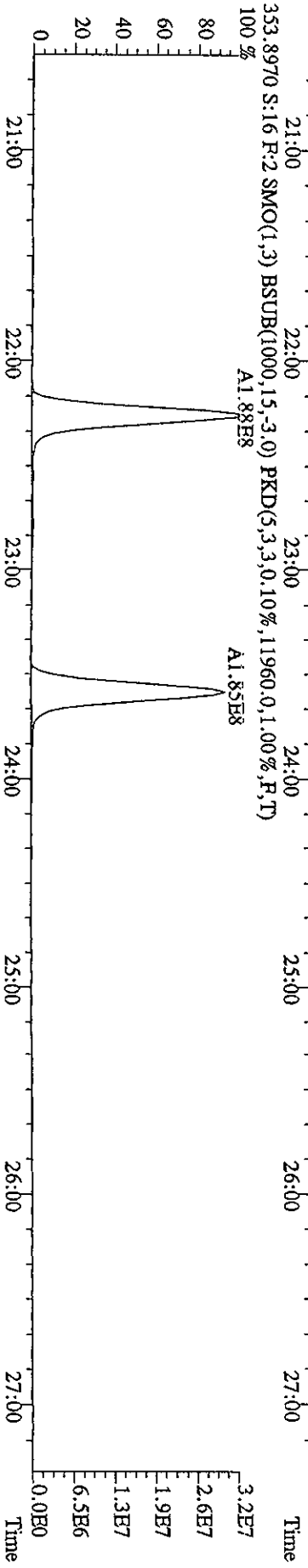
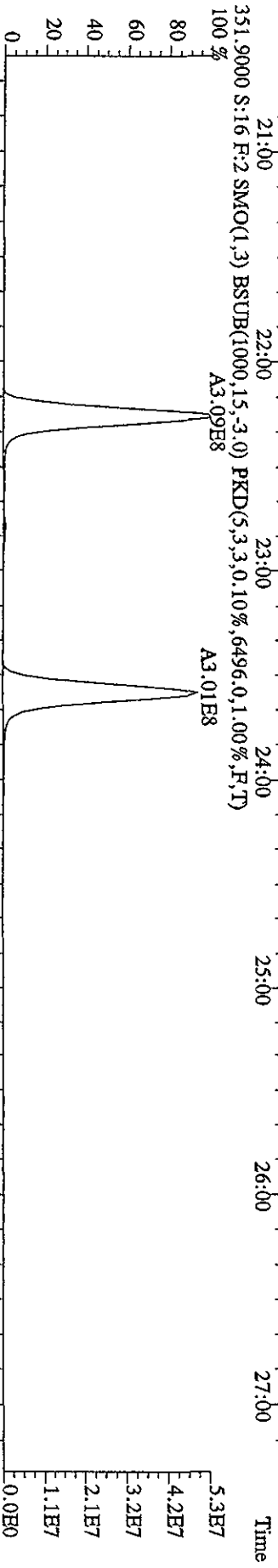
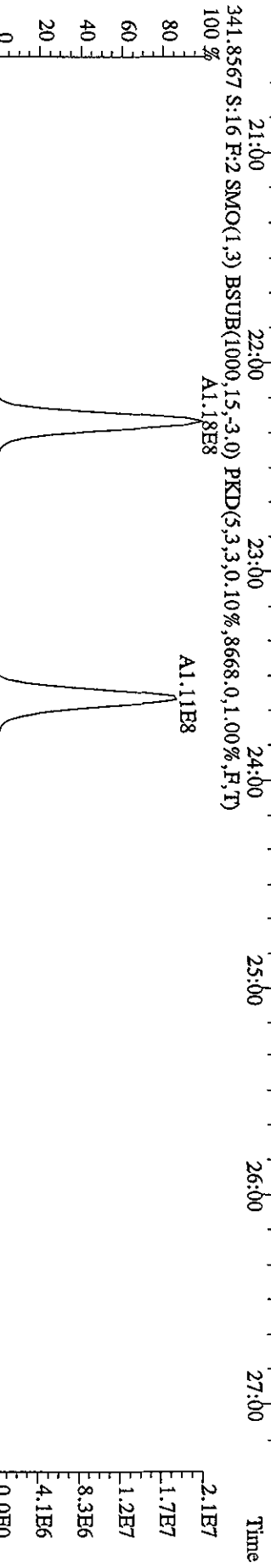
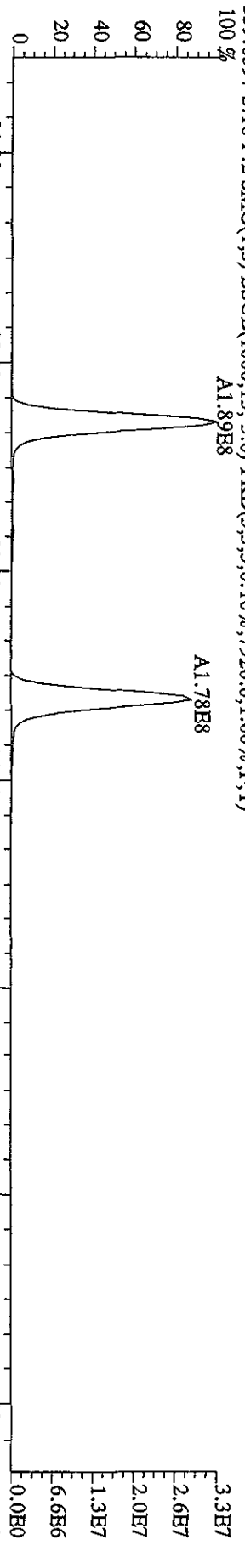
File: 27SE101D5 #1-383 Acq: 27-SEP-2010 20:12:49 GC EI+ Voltage SIR 70SE  
 Sample#16 Text: ST0927A :CS3 10DXN426 Exp: DIOXINRES  
 319.8965 S:16 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3140.0,1.00%,F,T)



File: 27SEI01D5 #1-383 Acq: 27-SEP-2010 20:12:49 GC EI+ Voltage SIR 70SE  
 Sample#16 Text: ST0927A :CS3 10DXN426 Exp: DIOXINRES  
 327.8847 S:16 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6420,0,1,00%,F,T)  
 100%

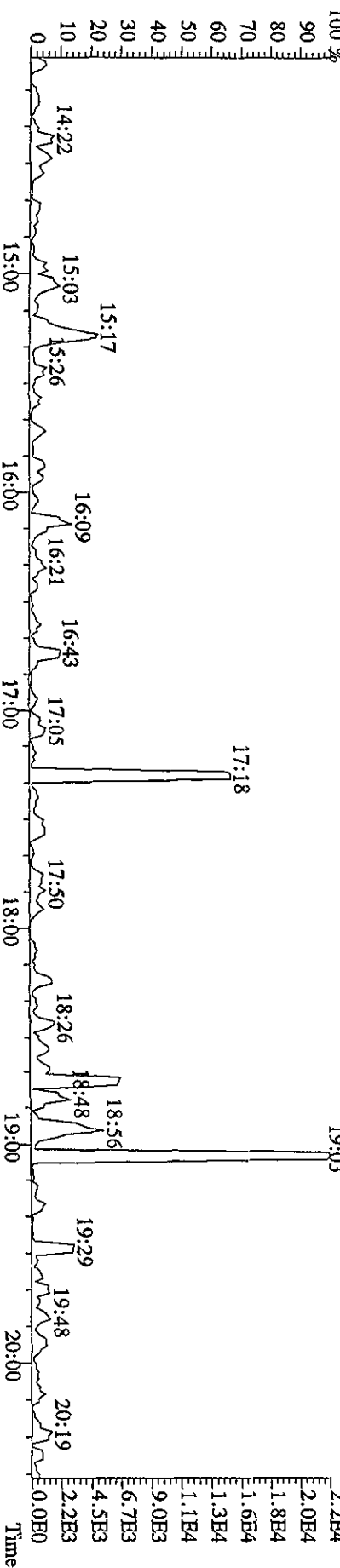
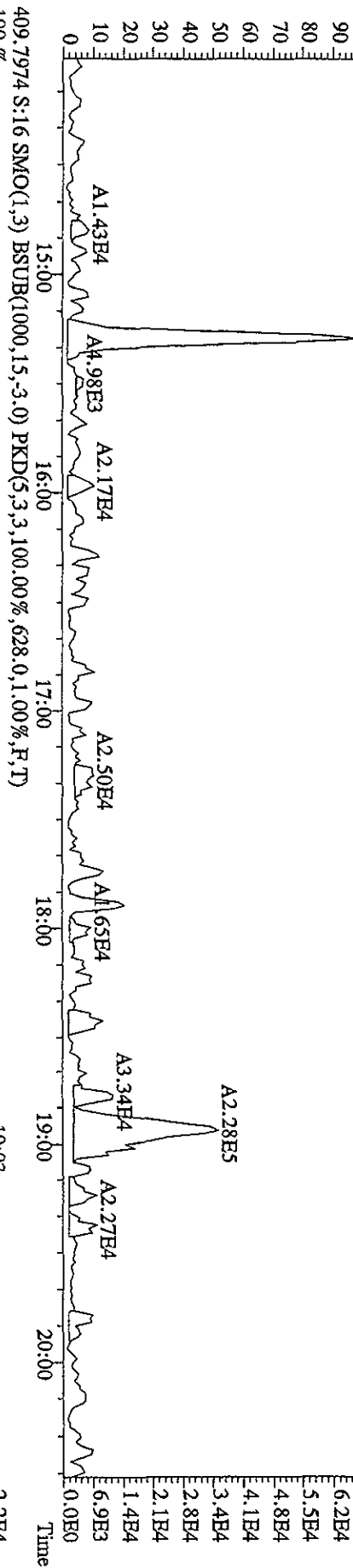
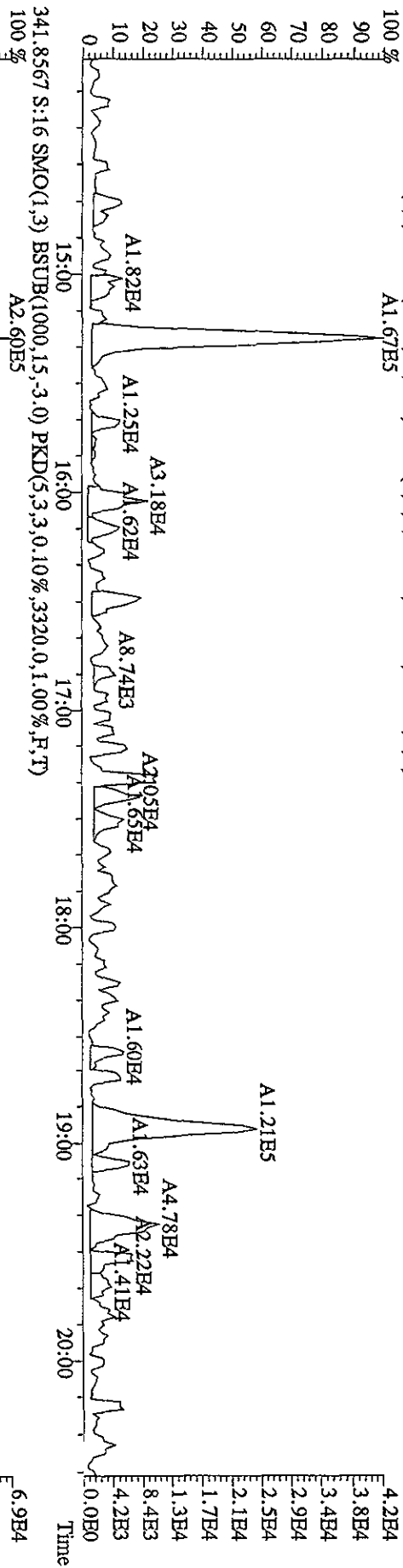


File: 27SEI01D5 #1-422 Acq: 27-SEP-2010 20:12:49 GC BF+ Voltage SIR 70SE  
 Sample#16 Text: ST0927A : CS3 10DXN426 Exp: DIOXINRES  
 339.8597 S:16 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7920.0,1.00%,F,T)  
 100%





File: 27SEB101D5 #1-383 Acq: 27-SBP-2010 20:12:49 GC BI+ Voltage STR 70SE  
 Sample#16 Text: ST0927A :CS3 10DXN426 Exp: DIOXINRES  
 339.8597 S:1.6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2.552,0,1.00%,F,T)  
 100% A1.67E5

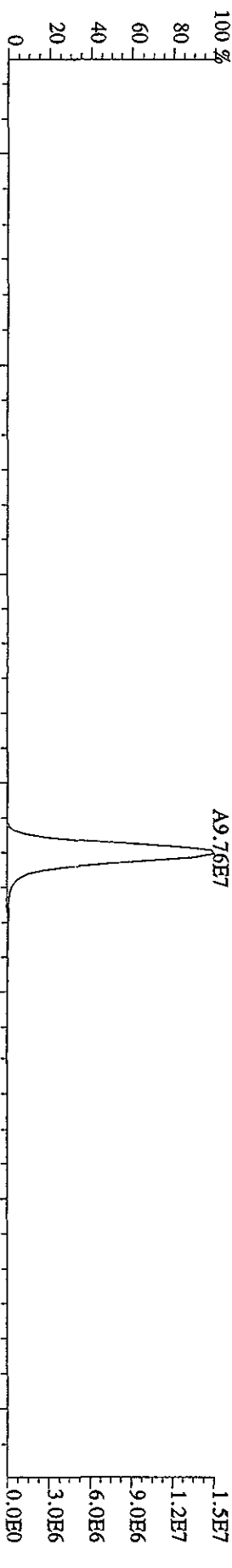


File:27SBE101D5 #1-422 Acq:27-SEP-2010 20:12:49 GC HI+ Voltage SIR 70SE

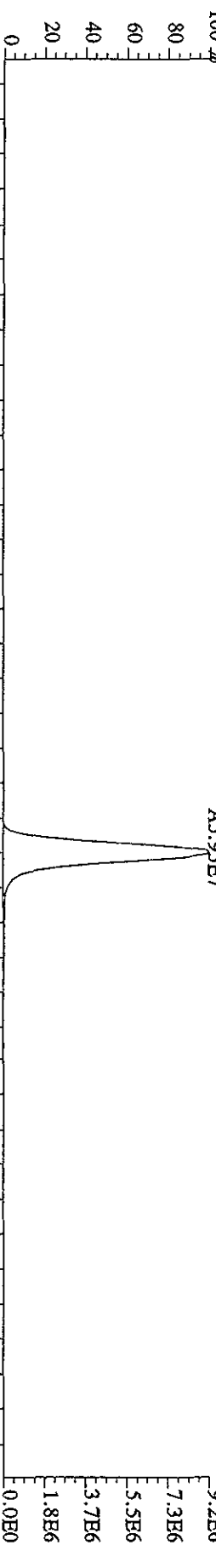
Sample#16 Text:ST0927A :CS3 10DXN426

Exp:DIOXINRES

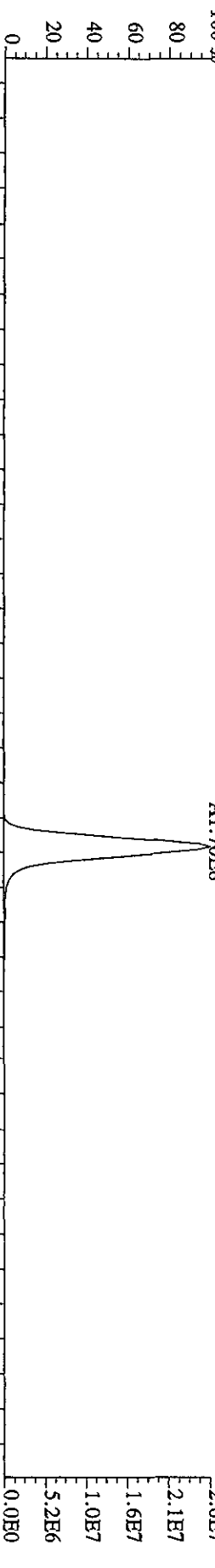
355.8546 S:16 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5240.0,1.00%,F,T) A9.76E7



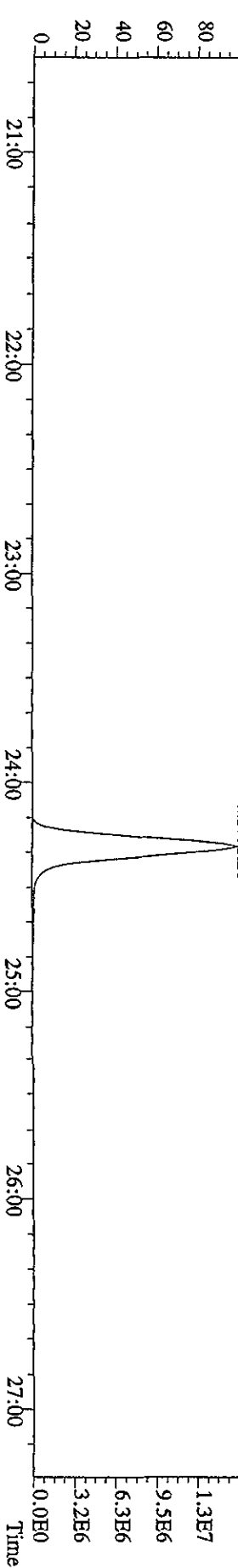
357.8516 S:16 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1840.0,1.00%,F,T) A5.95E7



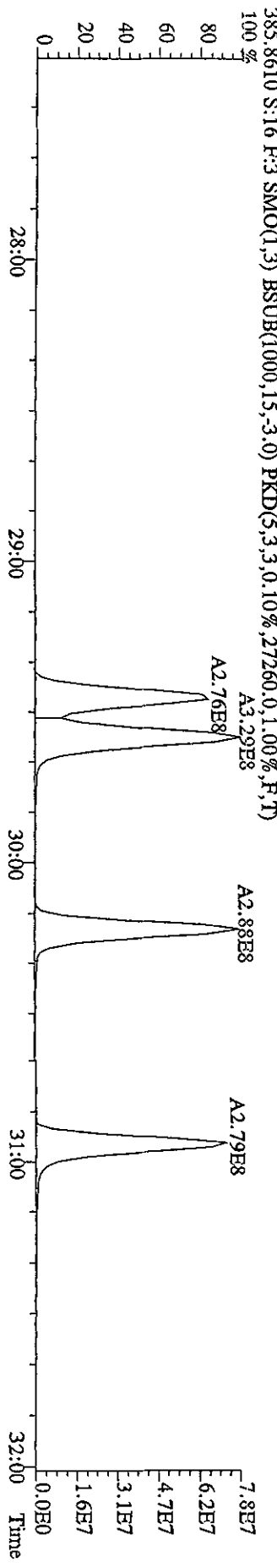
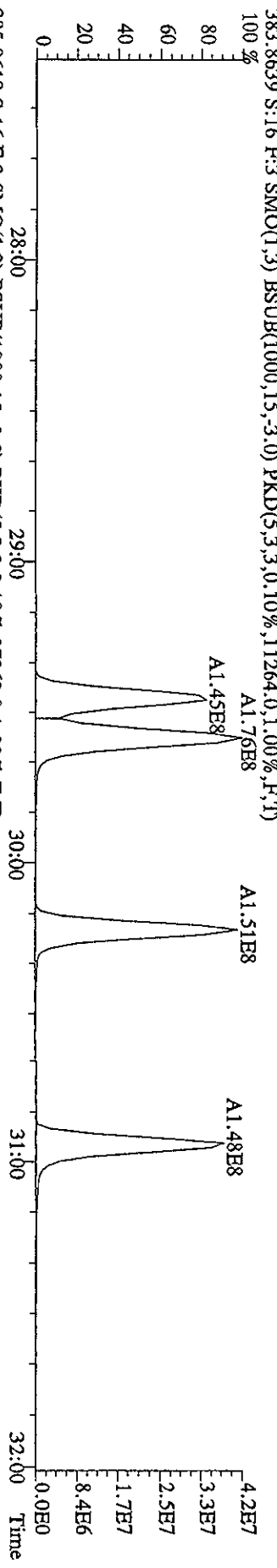
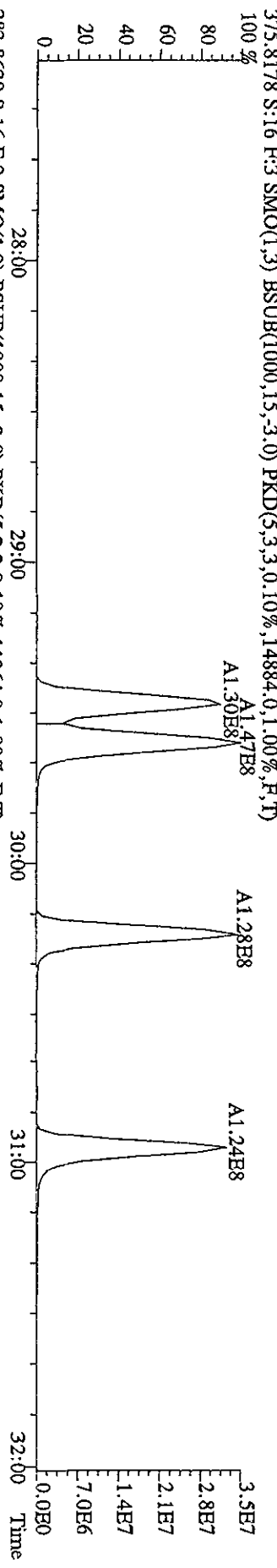
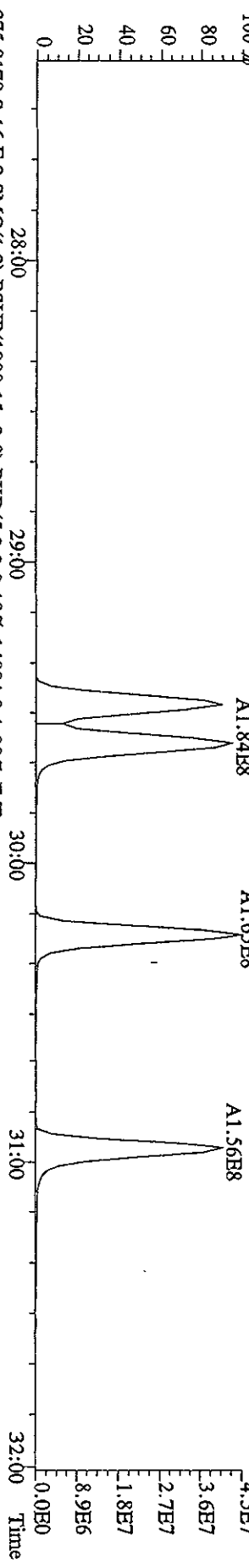
367.8949 S:16 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5724.0,1.00%,F,T) A1.70E8



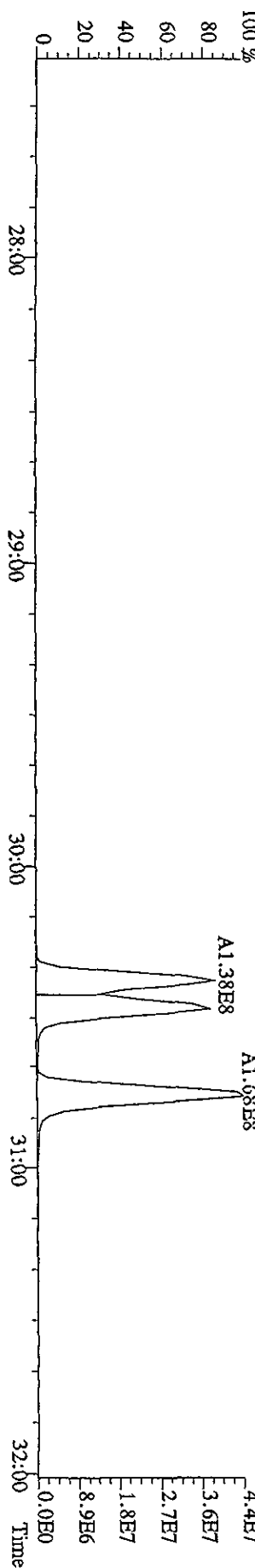
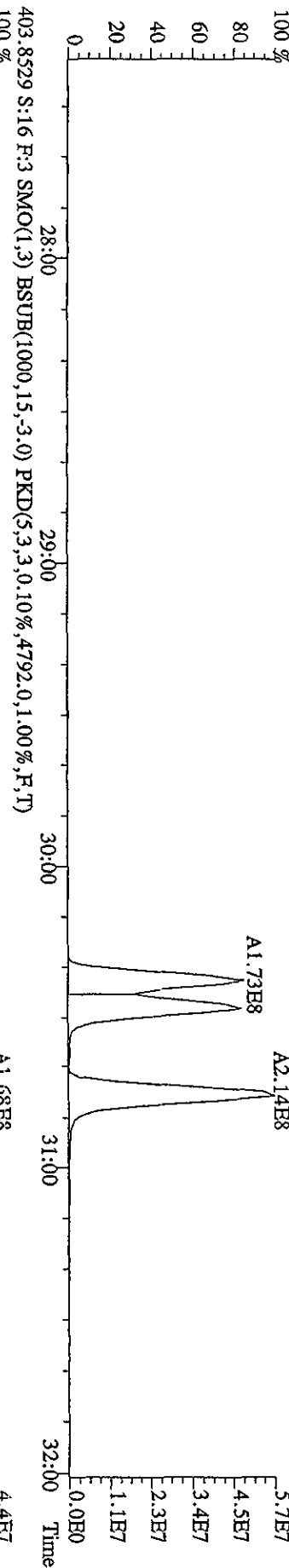
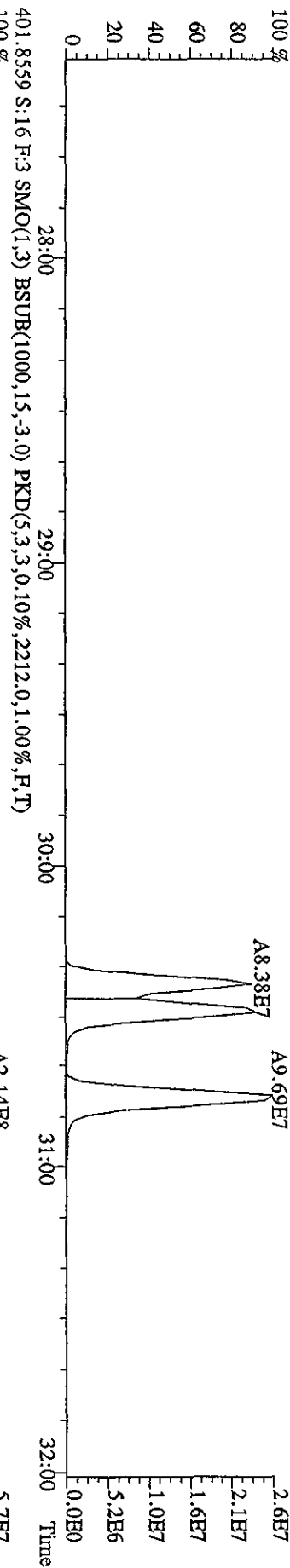
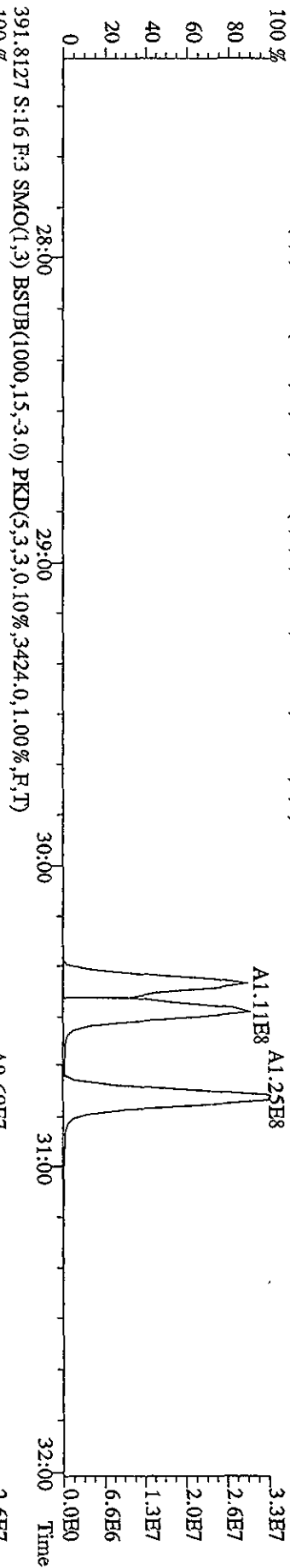
369.8919 S:16 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4396.0,1.00%,F,T) A1.01E8



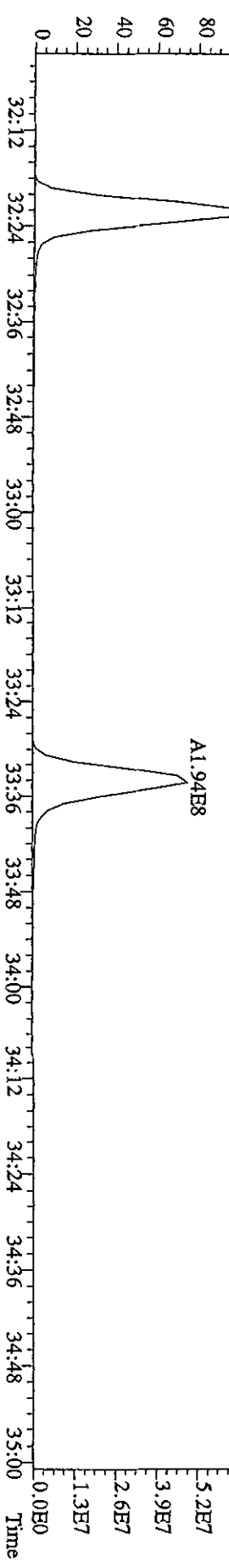
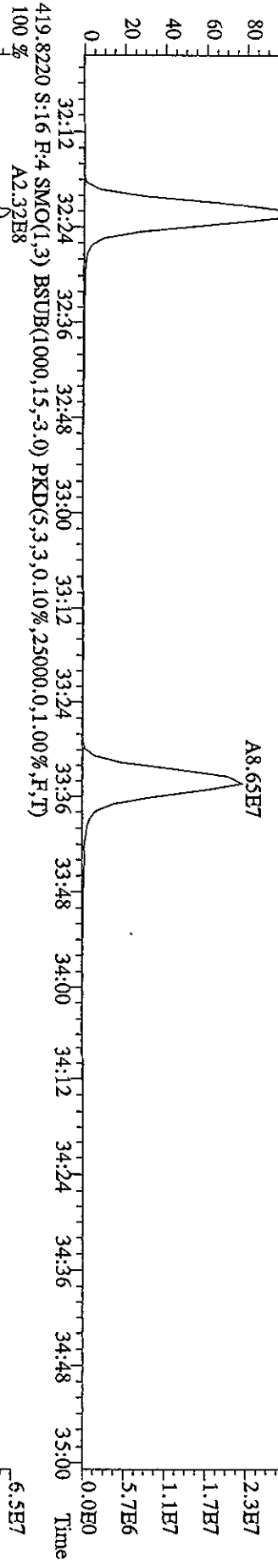
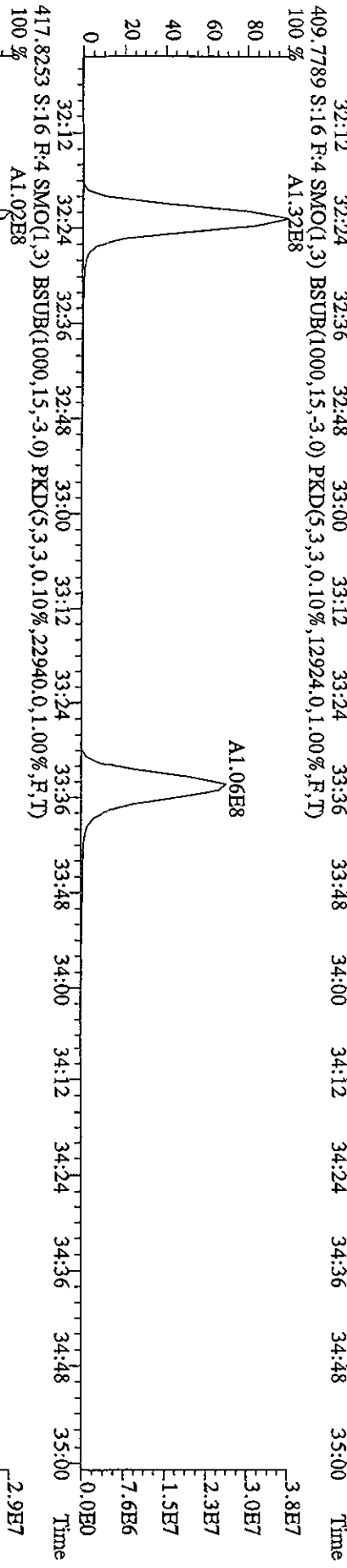
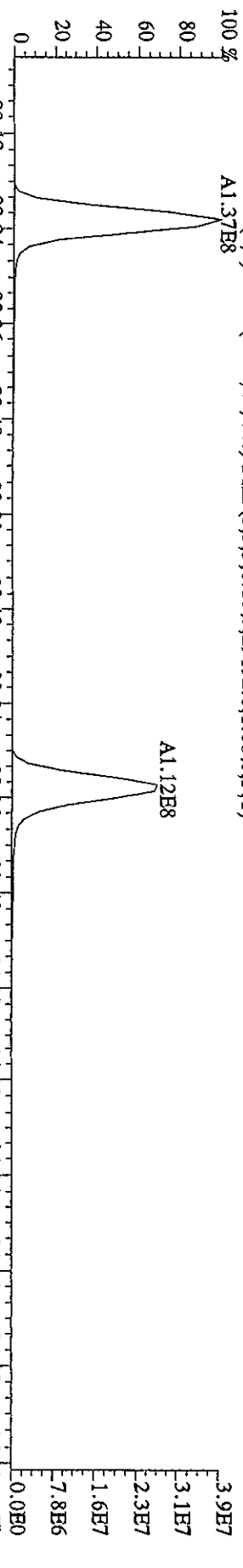
File:27SE101D5 #1-301 Acq:27-SEP-2010 20:12:49 GC EI+ Voltage SIR 70SE  
 Sample#16 Text:ST0927A :CS3 10DXN426 Exp:DIOXINRES  
 373.8208 S:16 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2668,0,1,100%,F,T)



File:27SE101D5 #1-301 Acq:27-SBP-2010 20:12:49 GC EI+ Voltage SIR 70SB  
 Sample#16 Text:ST0927A :CS3 10DDXN426 Exp:DIOXINRES  
 389.8157 S:16 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,10400,0,1,00%,F,T)

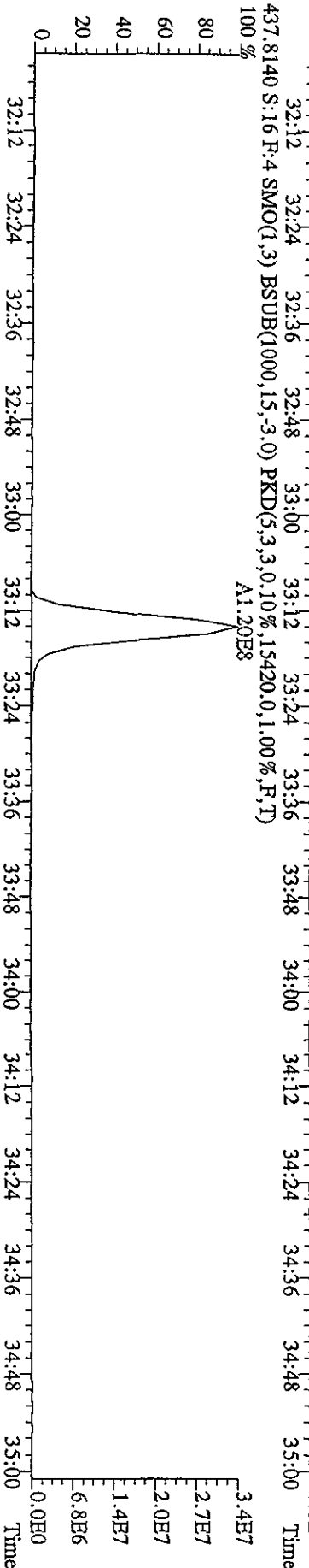
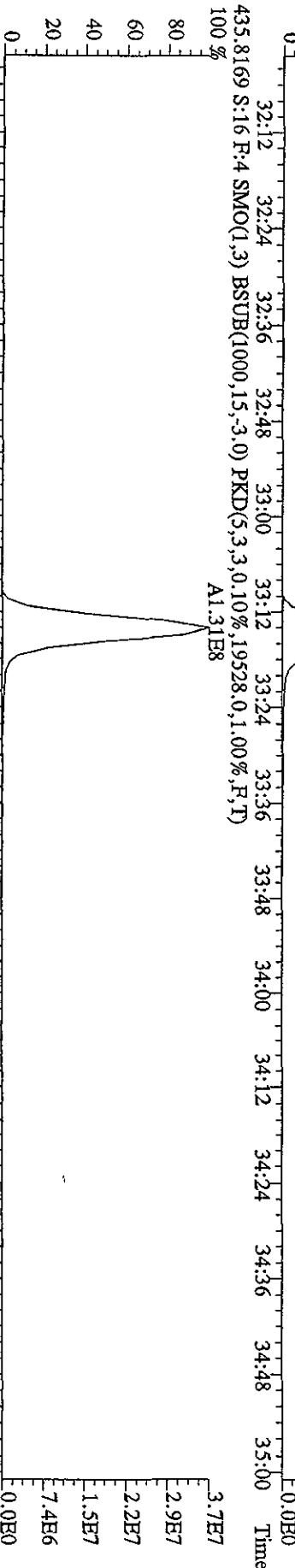
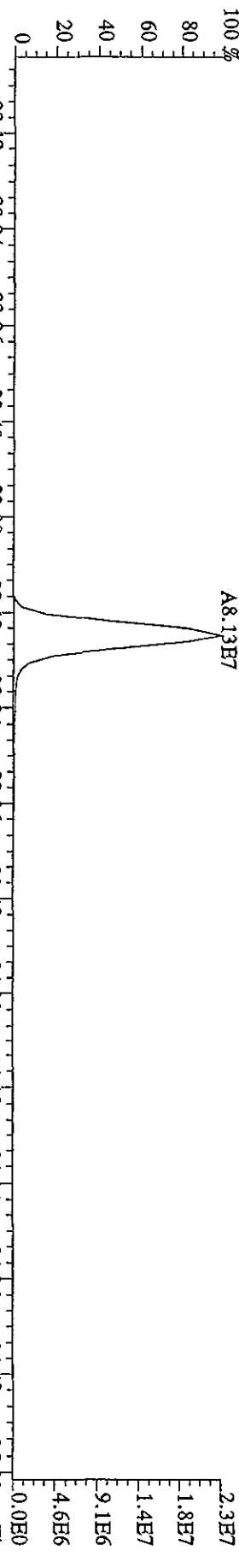


File:27SE101D5 #1-203 Acq:27-SEP-2010 20:12:49 GC EI+ Voltage SIR 70SE  
 Sample#16 Tex:ST0927A :CS3 10DXN426 Exp:DIOXINRES  
 407.7818 S:16 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,29192.0,1.00%,F,T)  
 100 % A1.37E8

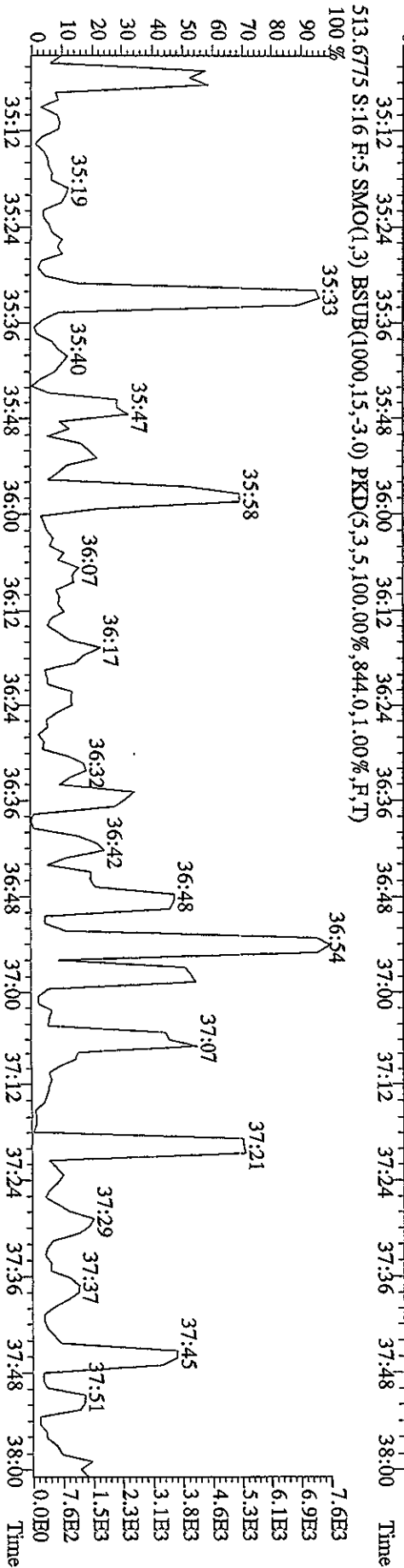
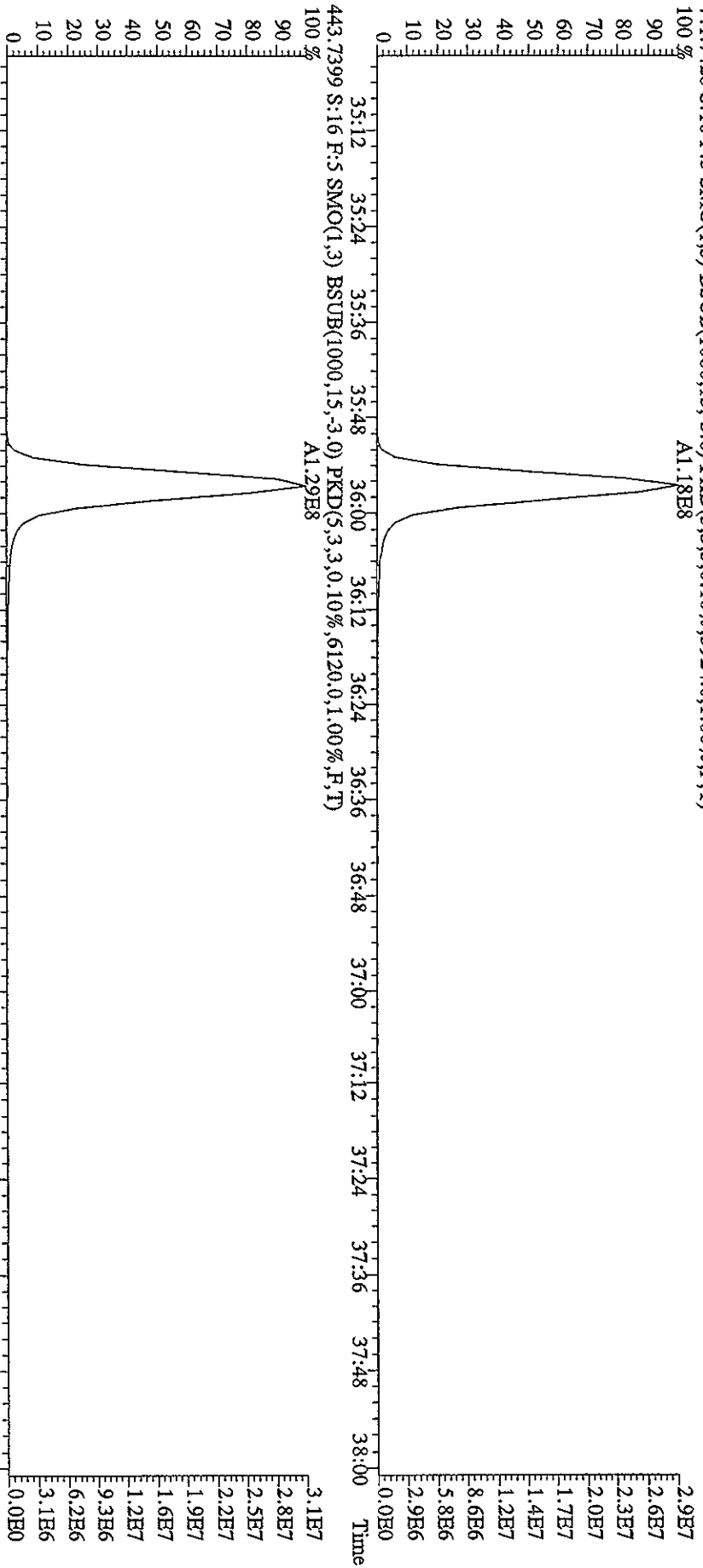


File:27SH101D5 #1-2003 Acq:27-SEP-2010 20:12:49 GC BI+ Voltage SIR 70SE

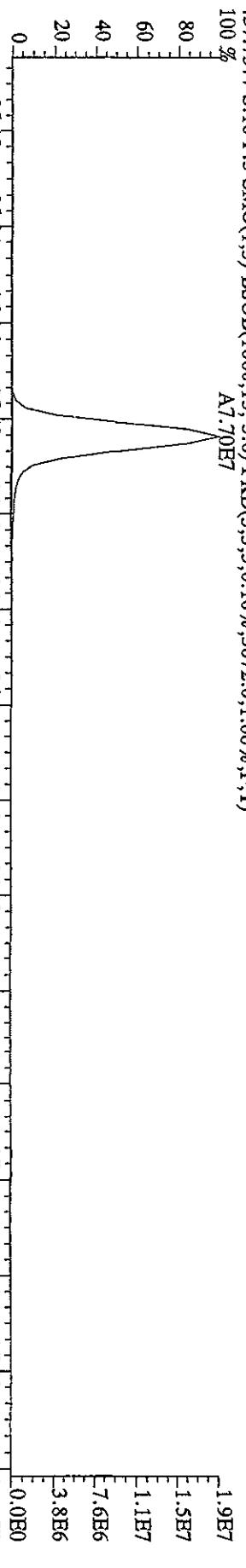
Sample#16 Text:ST0927A :CS3 10DDXN426 Exp:DIOXINRES



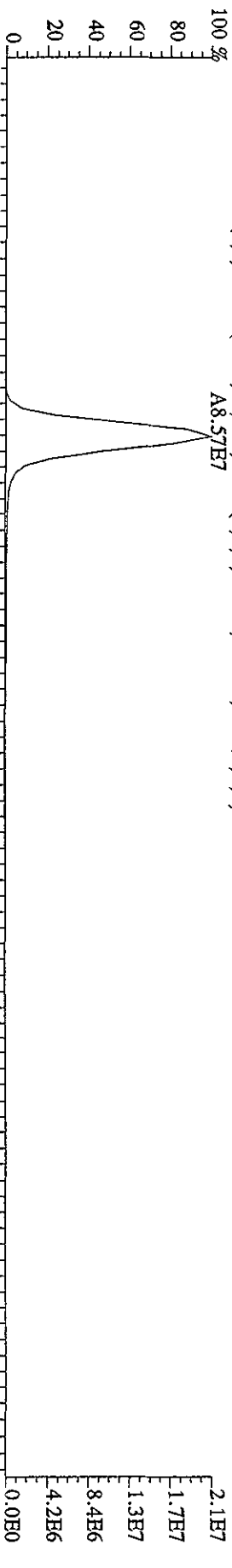
File: 27SE101D5 #1-196 Acq: 27-SEP-2010 20:12:49 GC EI+ Voltage SIR 70SB  
 Sample#16 Text: ST0927A :CS3 10DXN426 Exp: DIOXINES  
 441.7428 S:16 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5924,0,1,100%,F,T)  
 100% A1.18E8



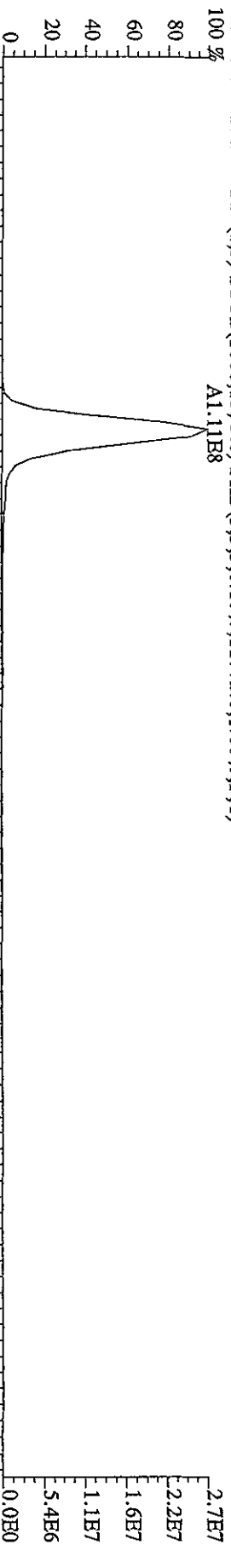
File: 27SE101D5 #1-196 Acq: 27-SEP-2010 20:12:49 GC EI+ Voltage SIR 70SE  
 Sample#16 Text: ST0927A :CS3 10DXN426 Exp: DIOXINRES  
 457.7377 S:16 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3072.0,1.00%,F,T)  
 100% A7.70E7



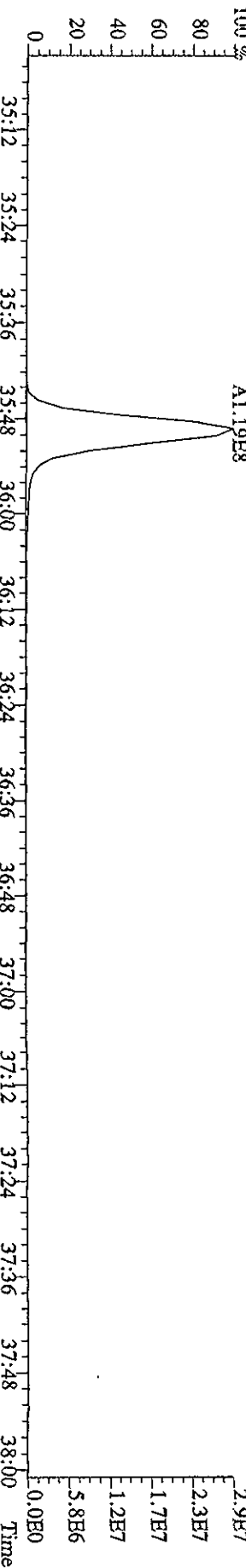
459.7348 S:16 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4924.0,1.00%,F,T)  
 100% A8.57E7



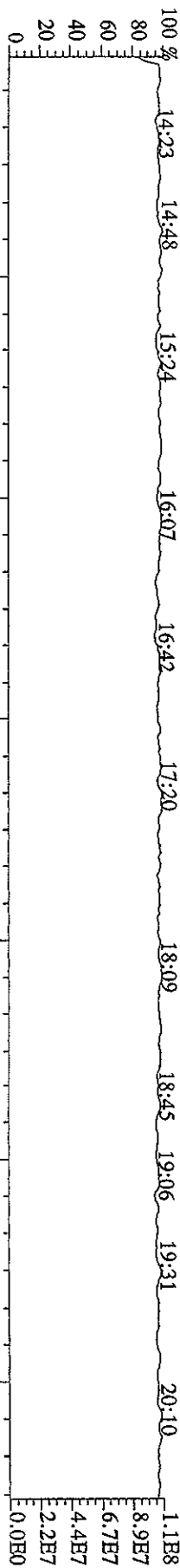
469.7779 S:16 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,11772.0,1.00%,F,T)  
 100% A1.11E8



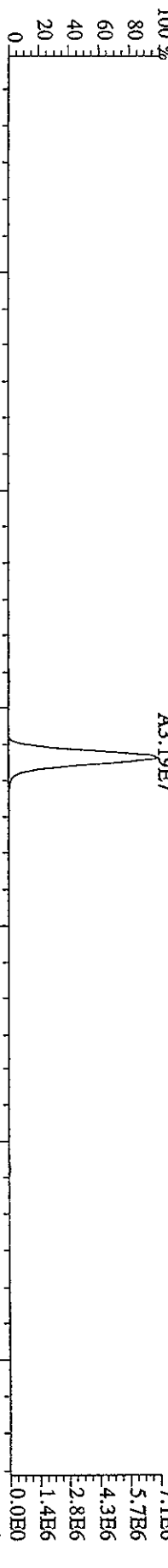
471.7750 S:16 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4728.0,1.00%,F,T)  
 100% A1.19E8



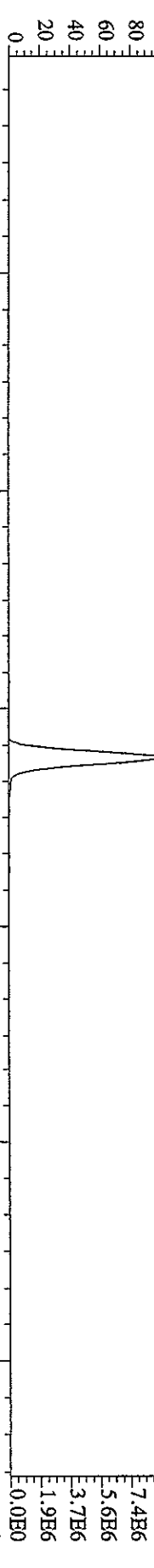




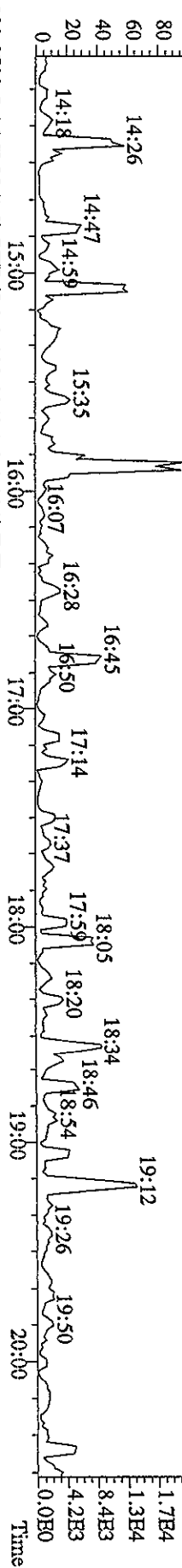
303.9016 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5748.0,1.00%,F,T)



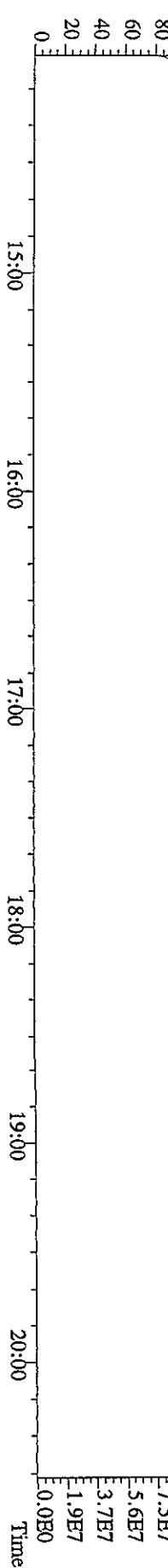
305.8987 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5748.0,1.00%,F,T)



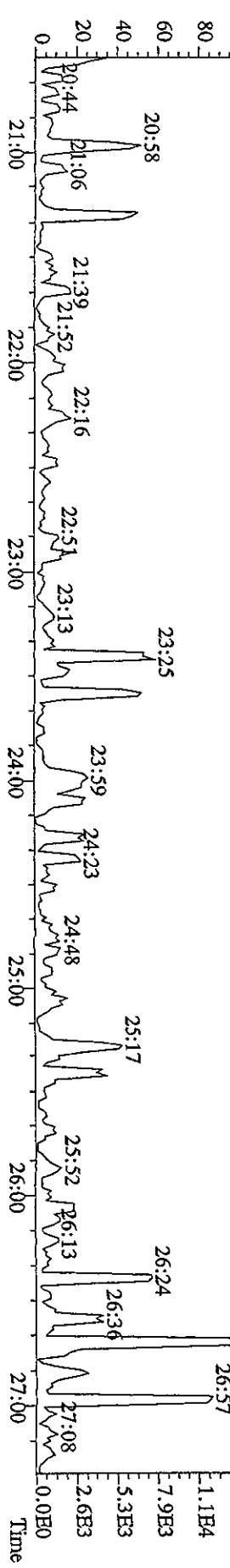
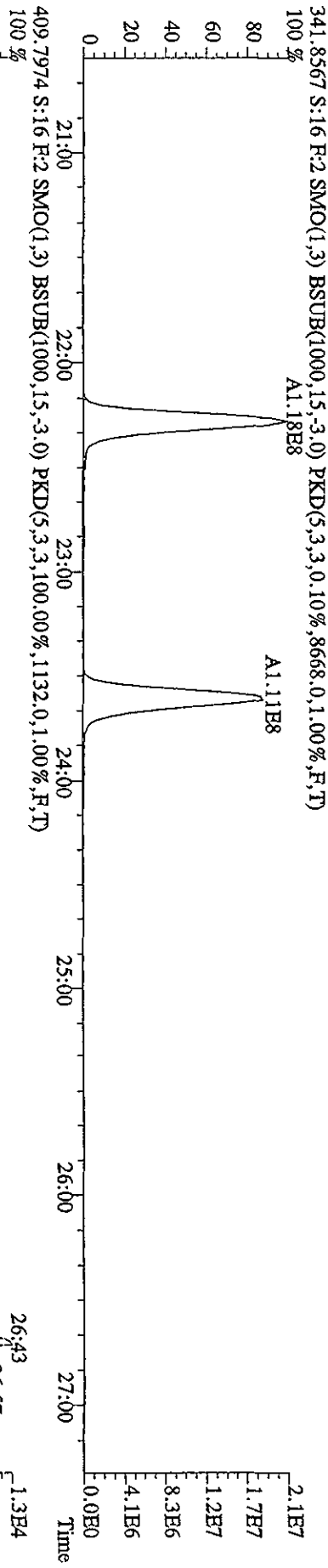
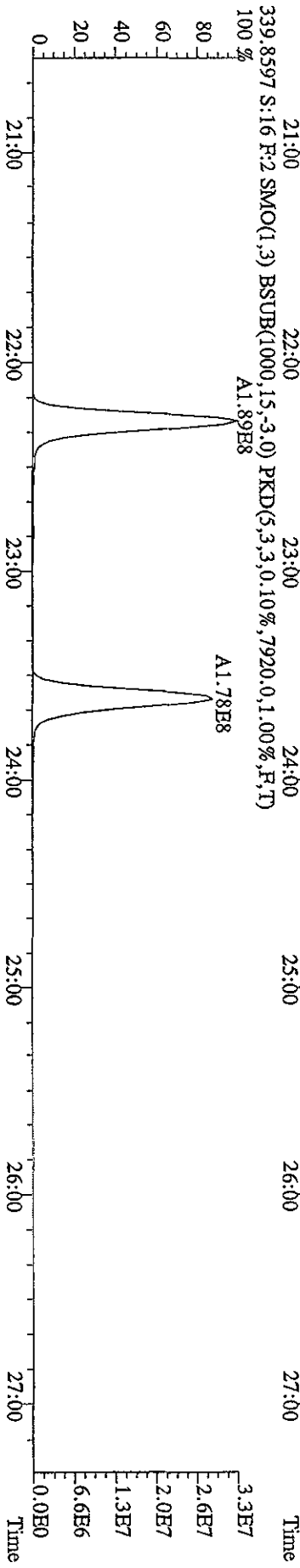
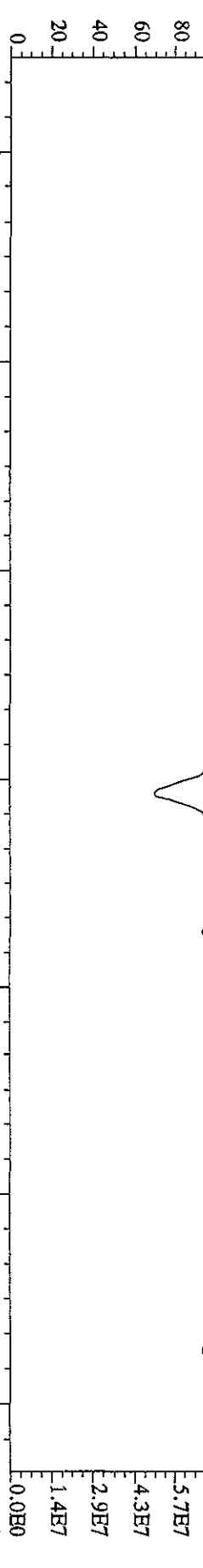
375.8364 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1604.0,1.00%,F,T)

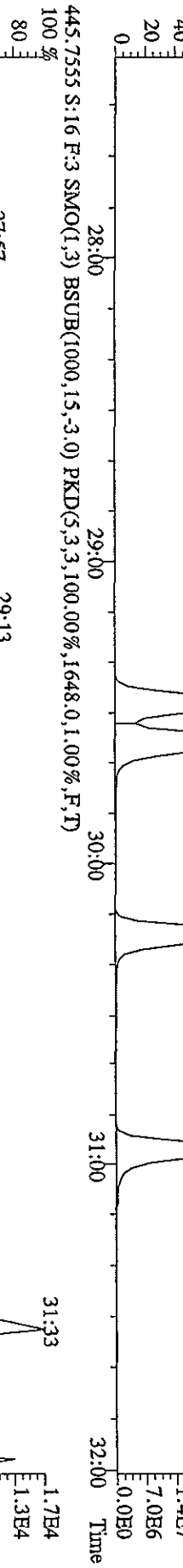
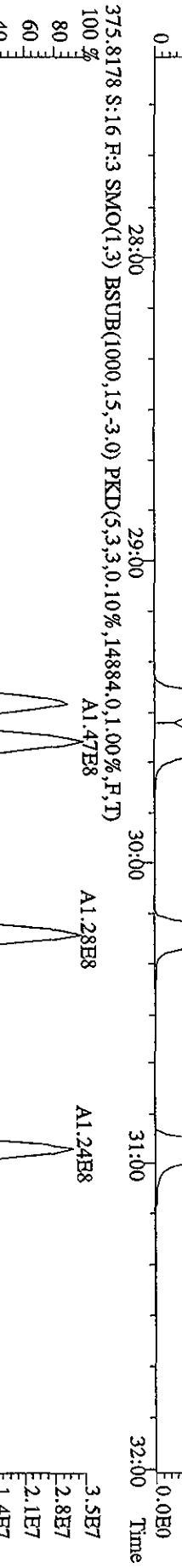
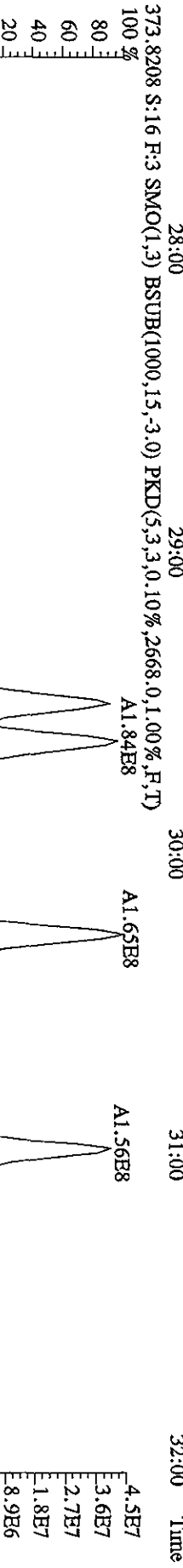
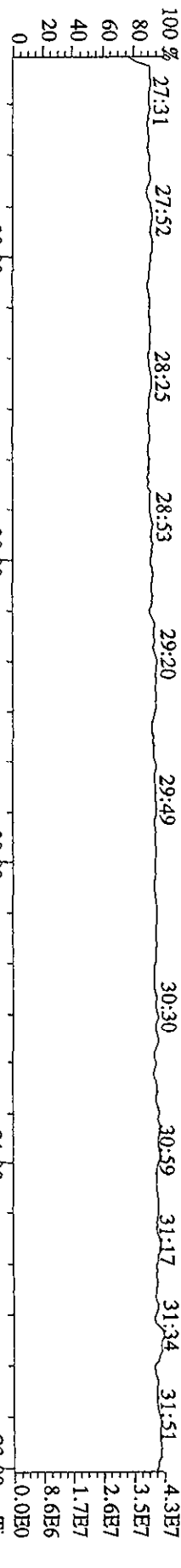


330.9792 S:16 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

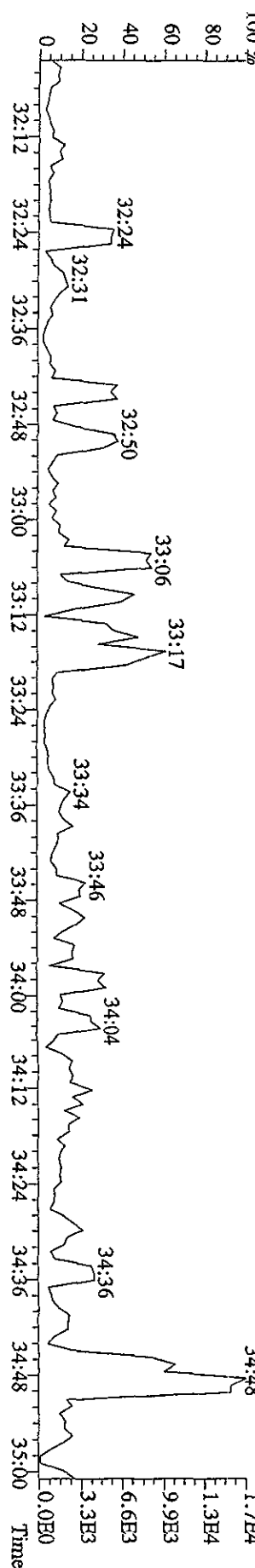
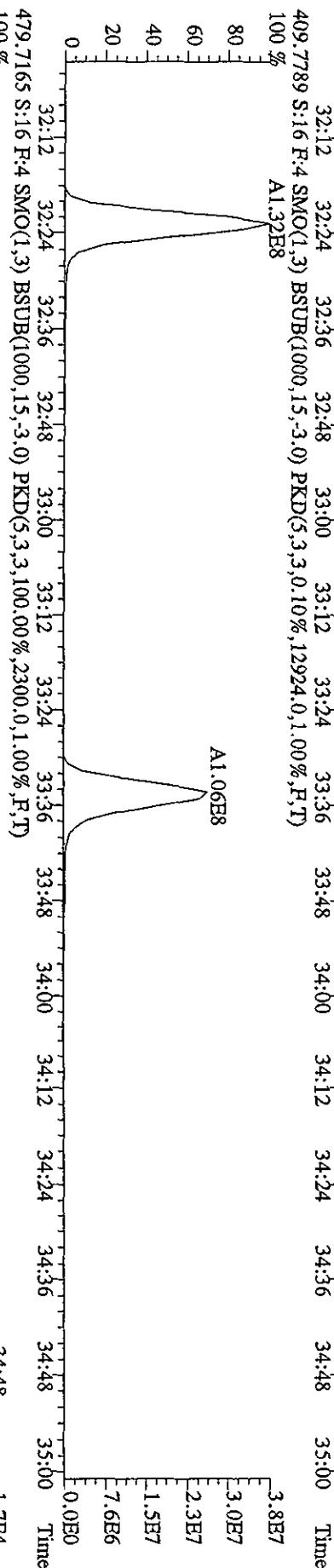
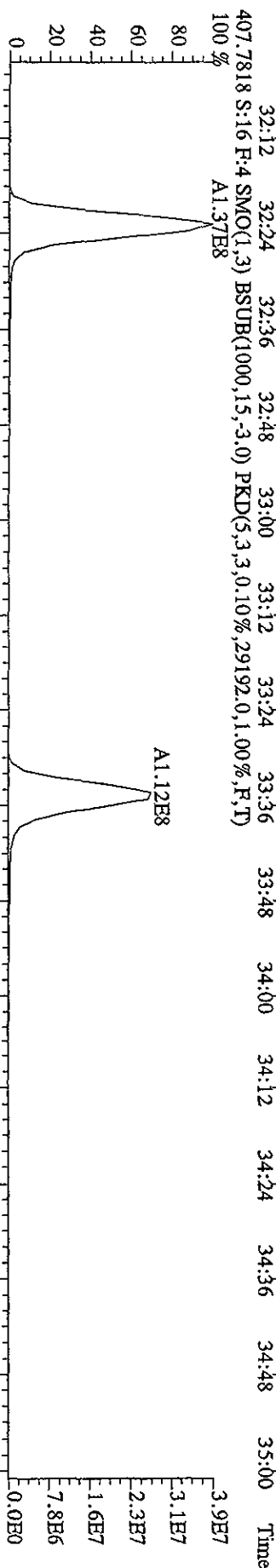
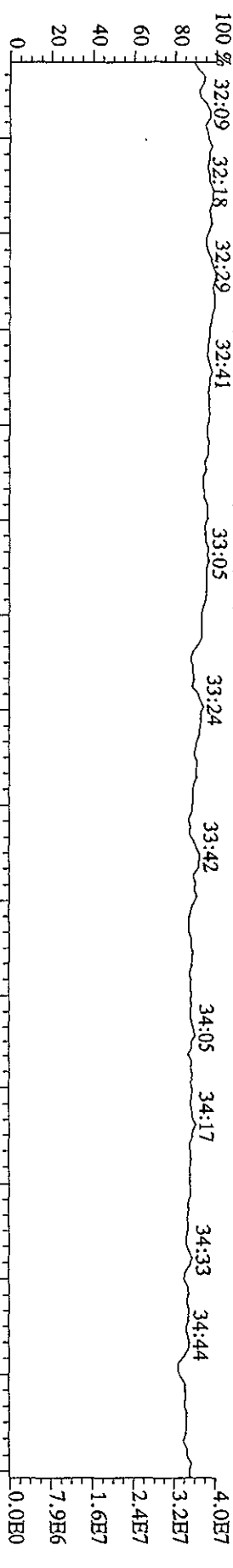


File: 27SBE101D5 #1-422 Acq: 27-SEP-2010 20:12:49 GC EI+ Voltage SIR 70SE  
 Sample#16 Text: ST0927A : CS3 10DXN426 Exp: DIOXINRES  
 342.9792 S:16 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100% 20:45 21:12 21:42 22:27 22:55 23:22 23:43





File:27SE101D5 #1-203 Acq:27-SEP-2010 20:12:49 GC BI+ Voltage SDR 70SB  
 Sample#16 Text:ST0927A :CS3 10DXN426 Exp.:DIOXINRES



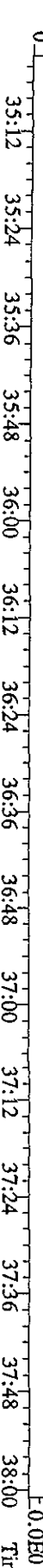
File:27SE101D5 #1-196 Acq:27-SBP-2010 20:12:49 GC EI+ Voltage SIR 70SE

Sample#16 Text:ST0927A :CS3 10DXN426 Exp:DIOXINRES

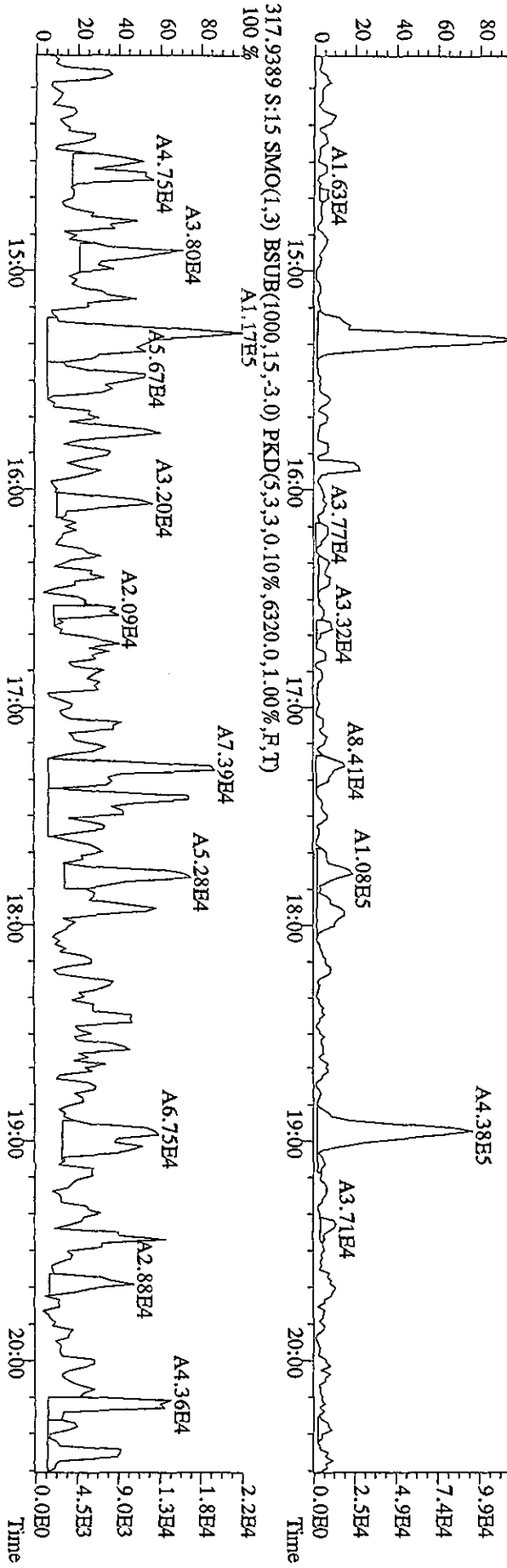
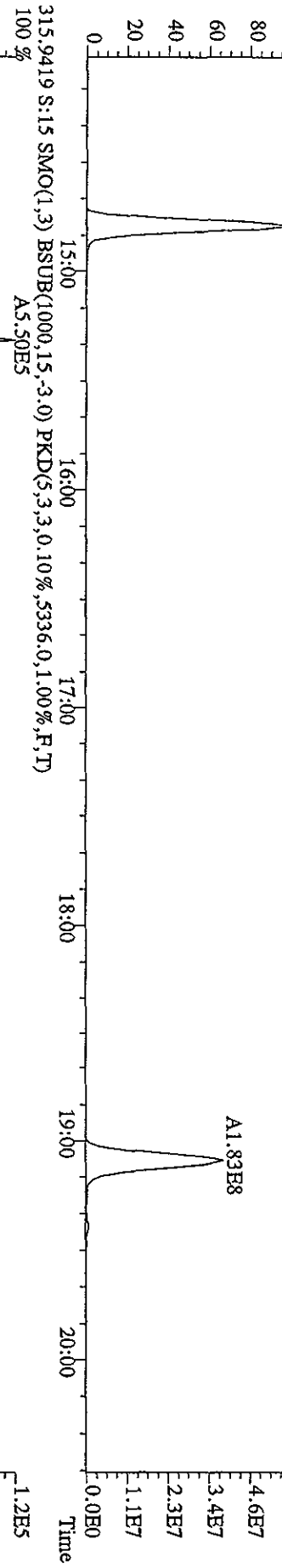
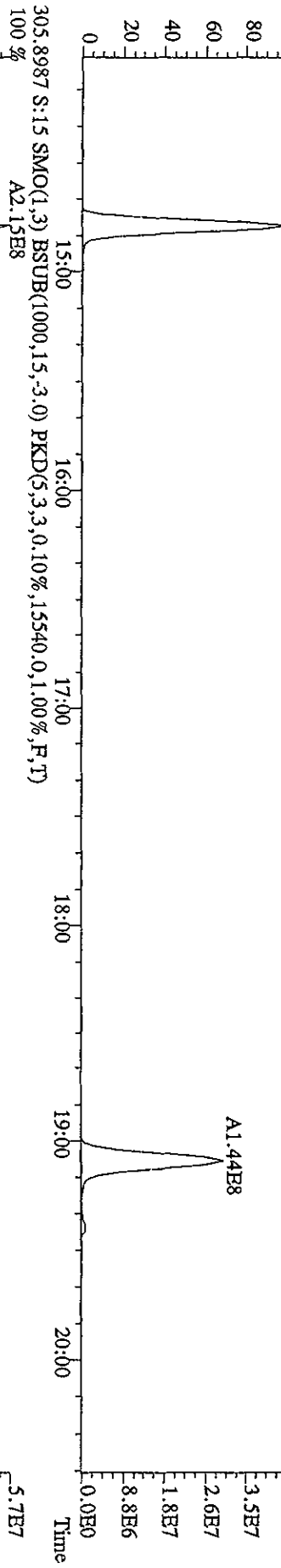
454.9728 S:16 R:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



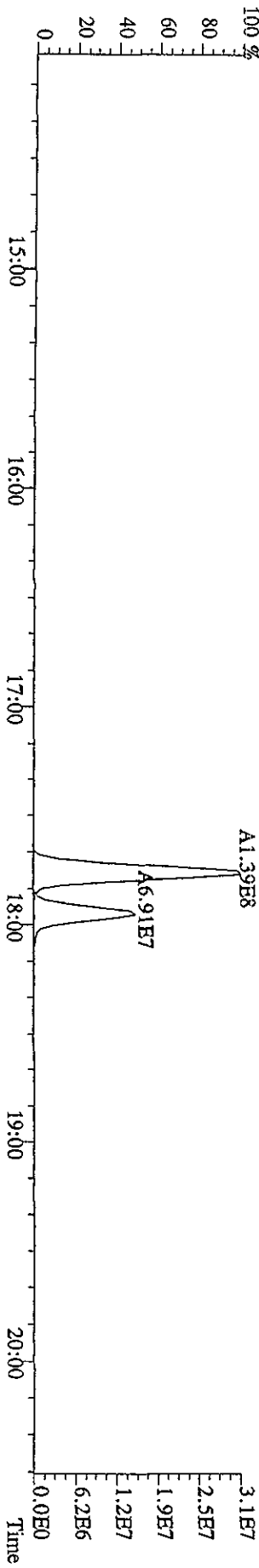
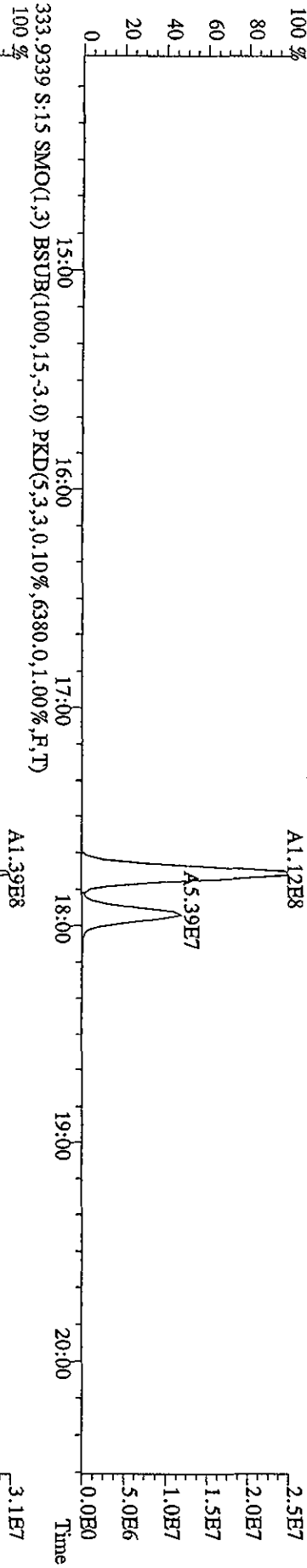
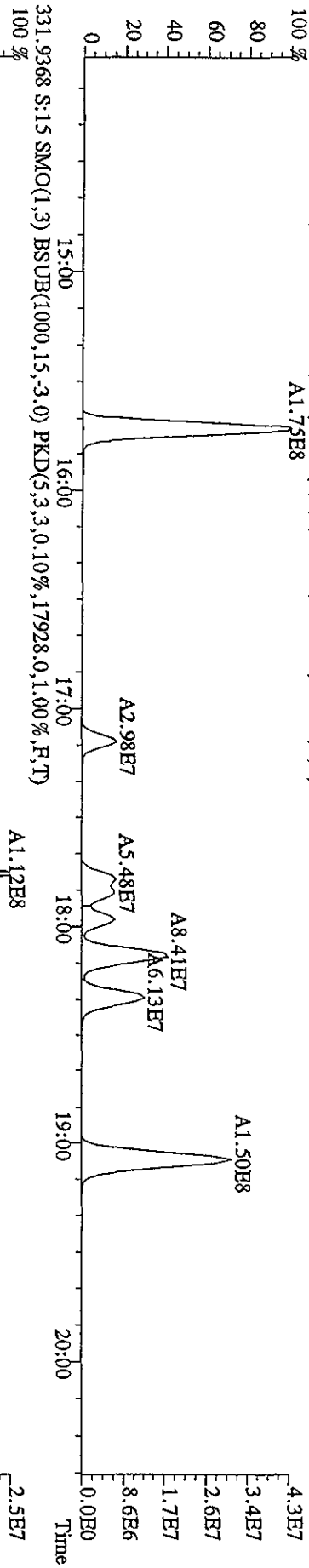
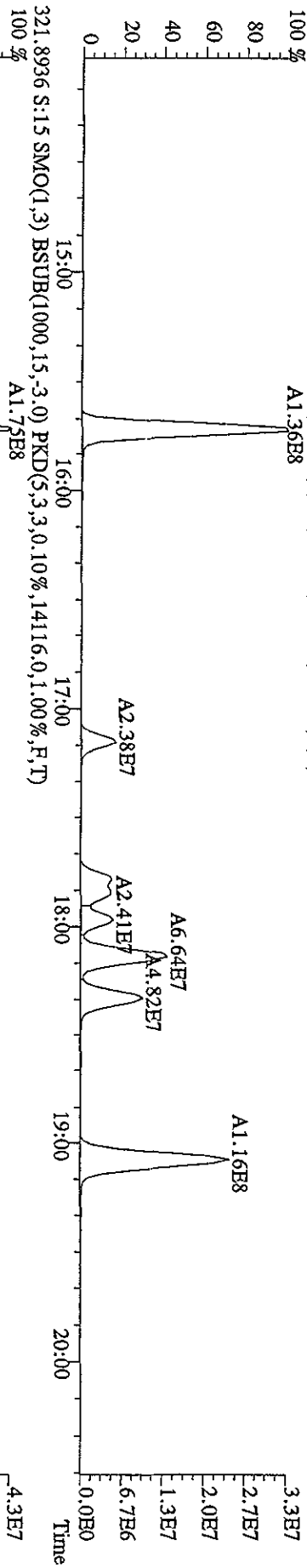
442.9728 S:16 R:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



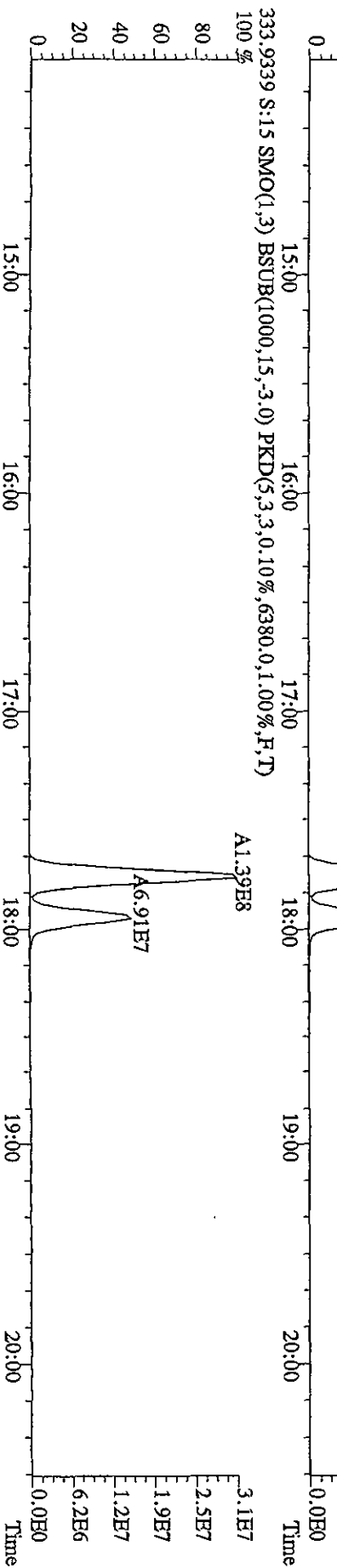
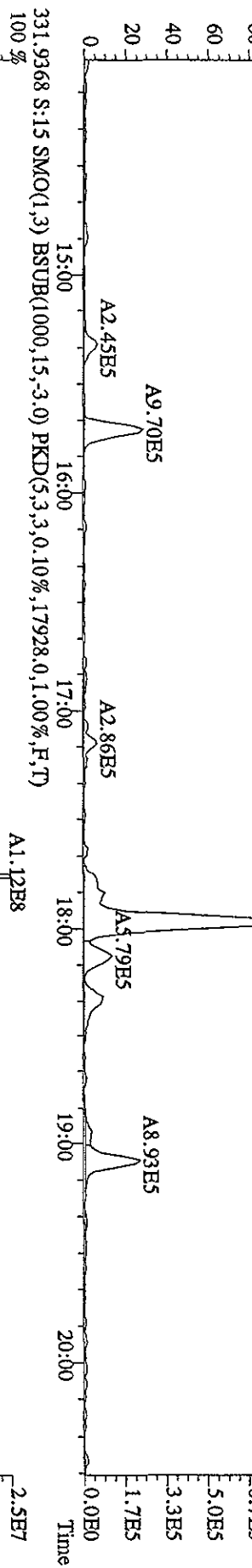
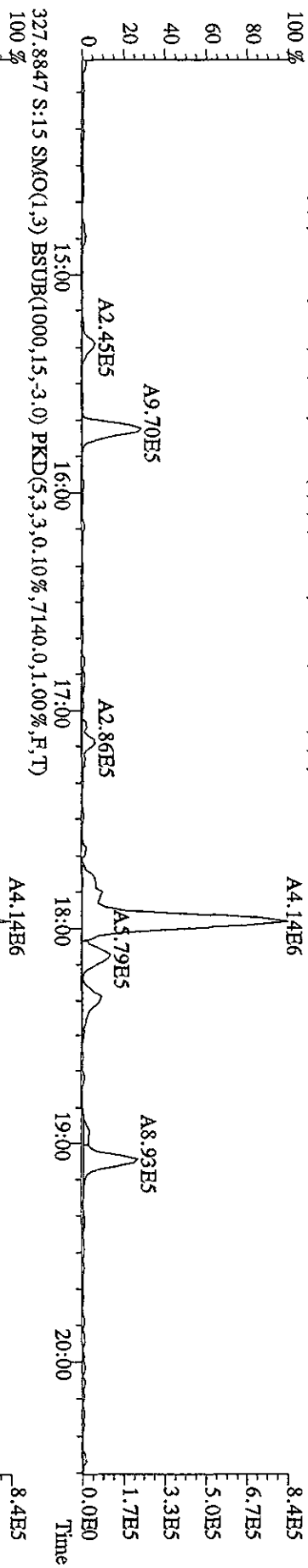
File:27SEI01D5 #1-382 Acq:27-SEP-2010 19:29:50 GC EI+ Voltage SIR 70SE  
 Sample#15 Text:CP0927A :DB-5 CP5M 3732-08 Exp:DIOXINRES  
 303.9016 S:15 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6096,0,1,00%,F,T)  
 100 % A1.67E8



File: 27SBE101D5 #1-382 Acq: 27-SEP-2010 19:29:50 GC EI+ Voltage: SIR 70SE  
 Sample#15 Text: CP0927A :DB-5 CPSM 3732-08 Exp: DIOXINRES  
 319.8965 S:1.5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9904,0,1,00%,F,T)  
 100% A1.36E8

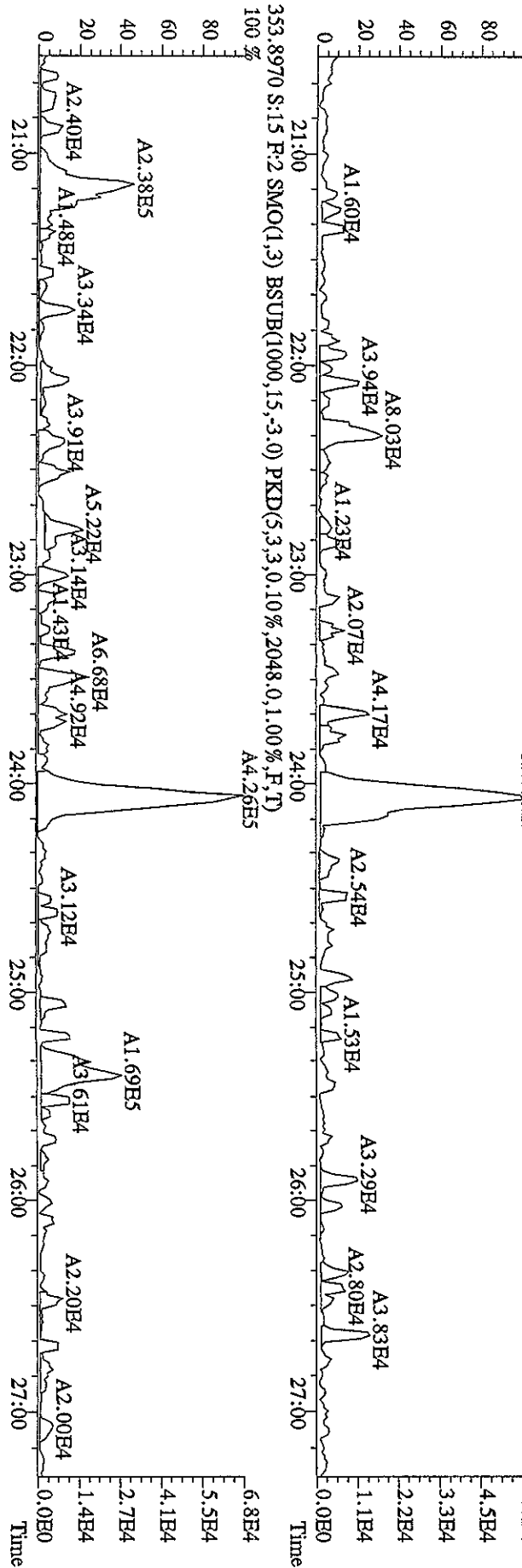
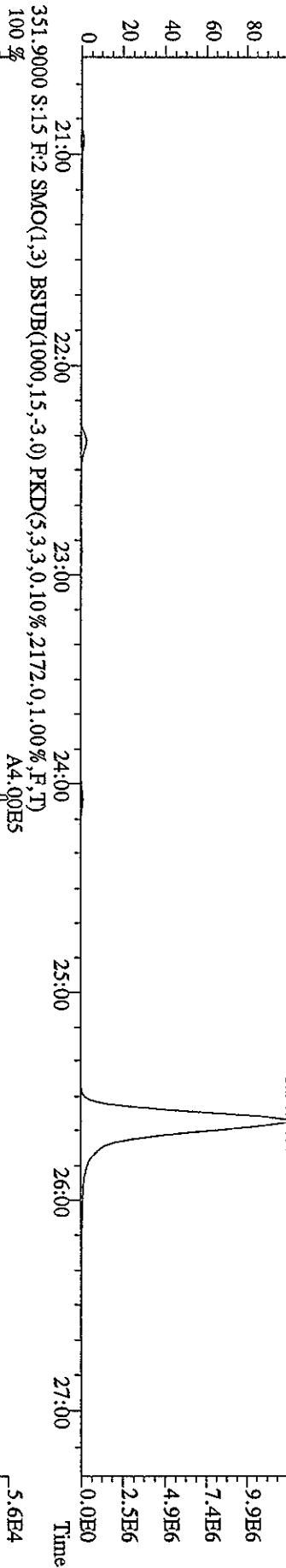
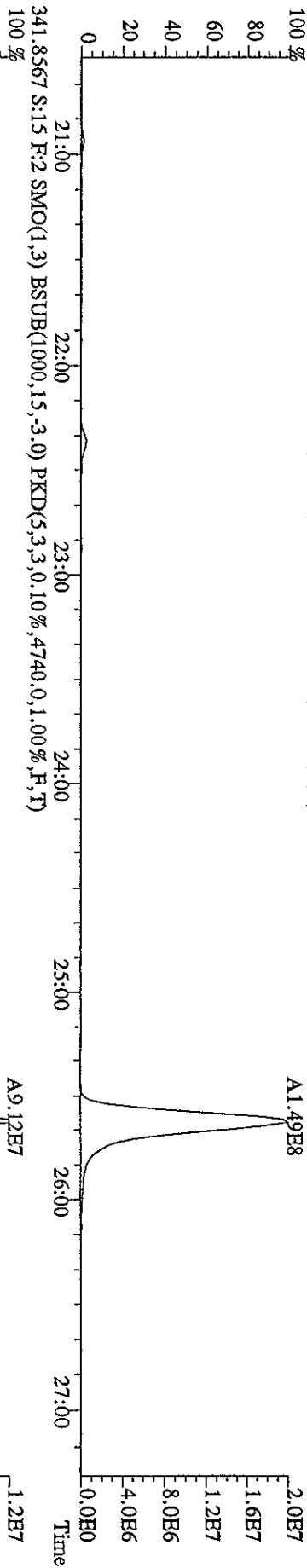


File:27SEB101D5 #1-382 Acq:27-SEP-2010 19:29:50 GC EI+ Voltage SIR 70SE  
 Sample#15 Text:CP0927A :DB-5 CPSM 3732-08 Exp:DIOXINRES  
 327.8847 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7140.0,1.00%,F,T)  
 100 %

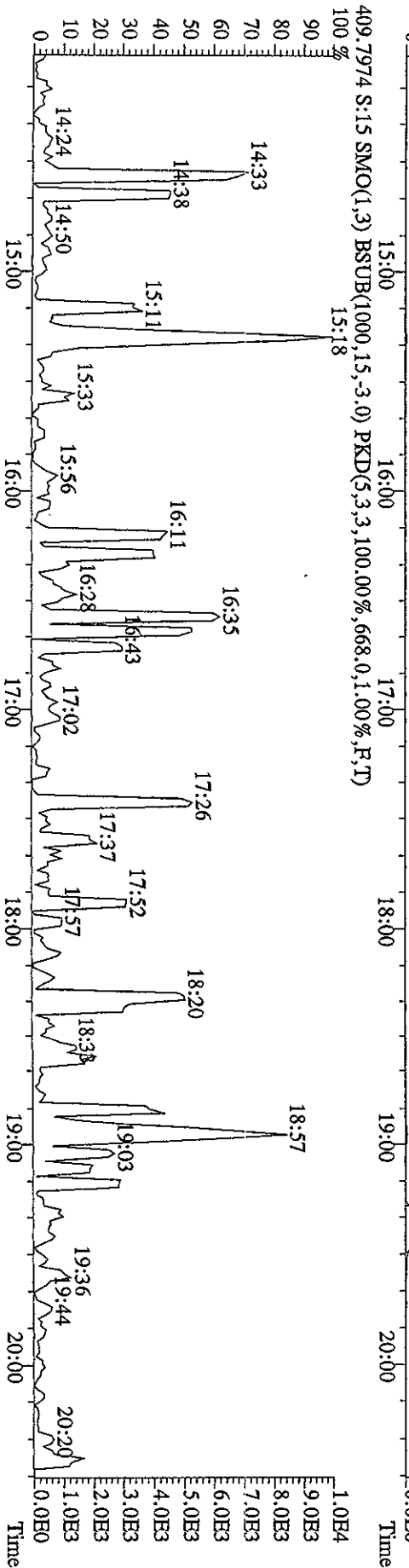
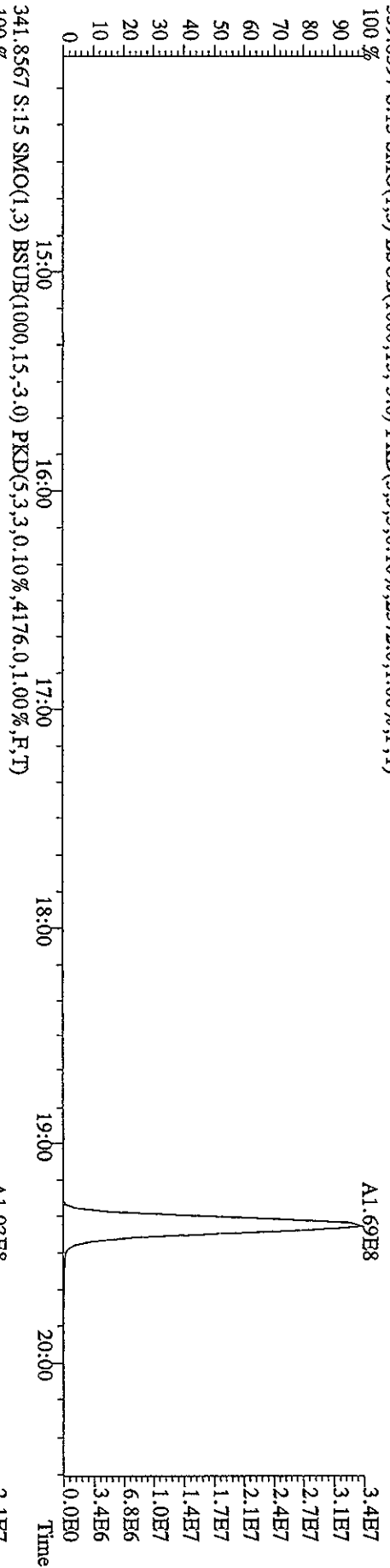




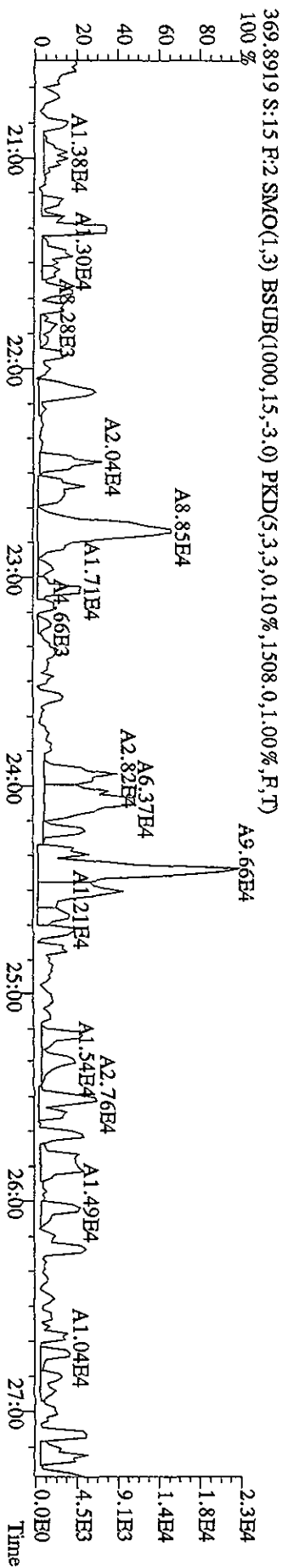
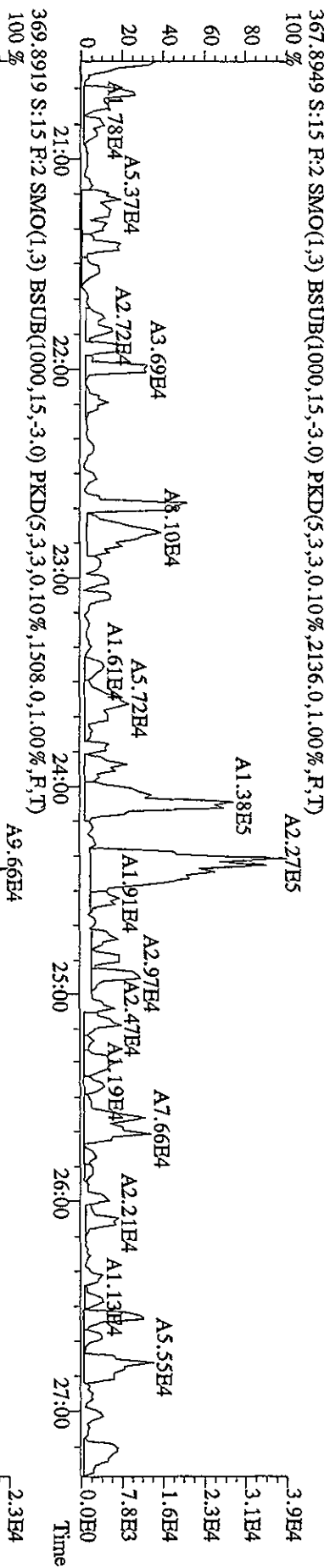
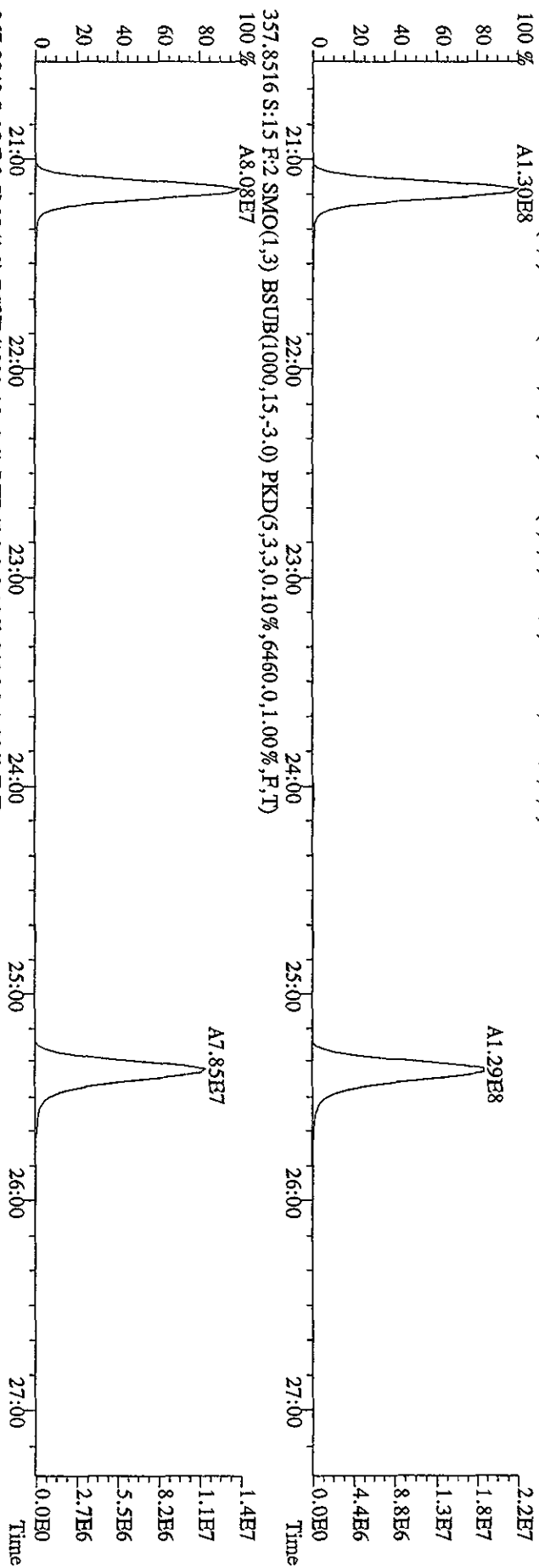
File:27SEI101D5 #1-422 Acq:27-SEP-2010 19:29:50 GC EI+ Voltage:500V SIR 705E  
 Sample#15 Text:CP0927A :DB-5 CP5M 3732-08 Exp:DIOXINRES  
 339.8597 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5712.0,1.00%,F,T)



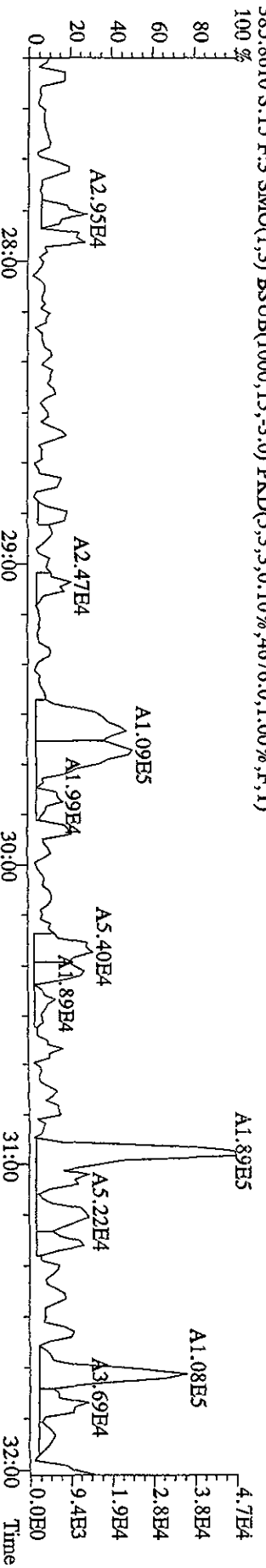
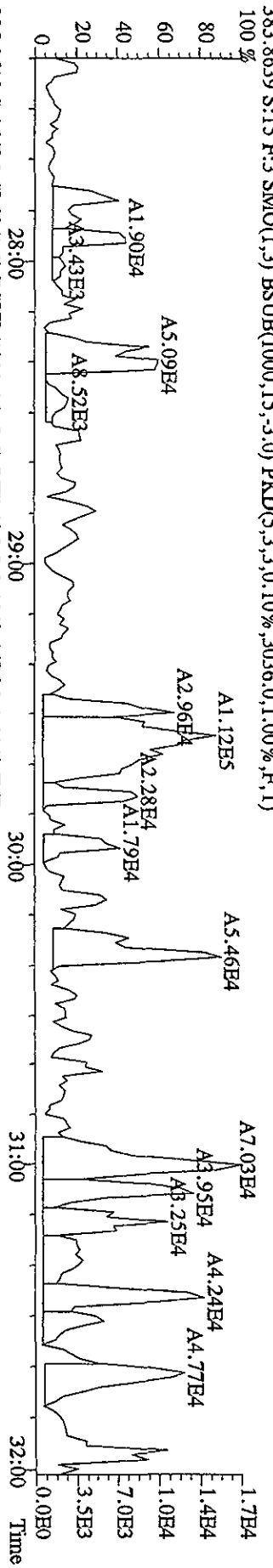
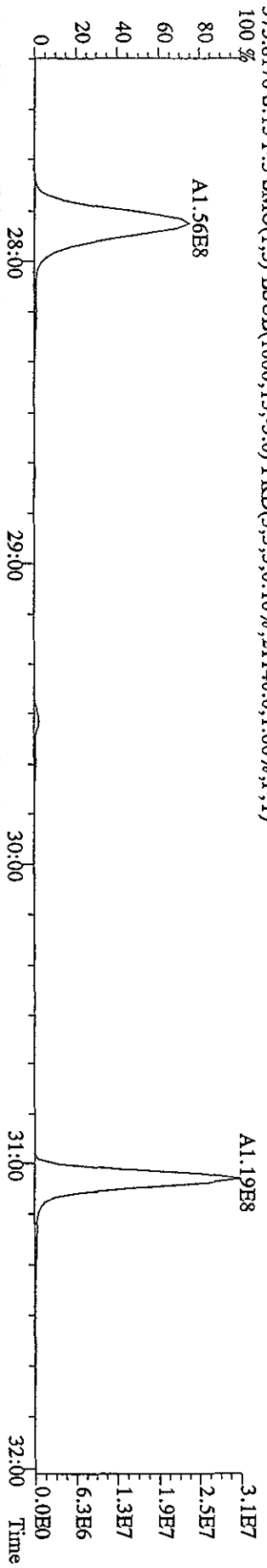
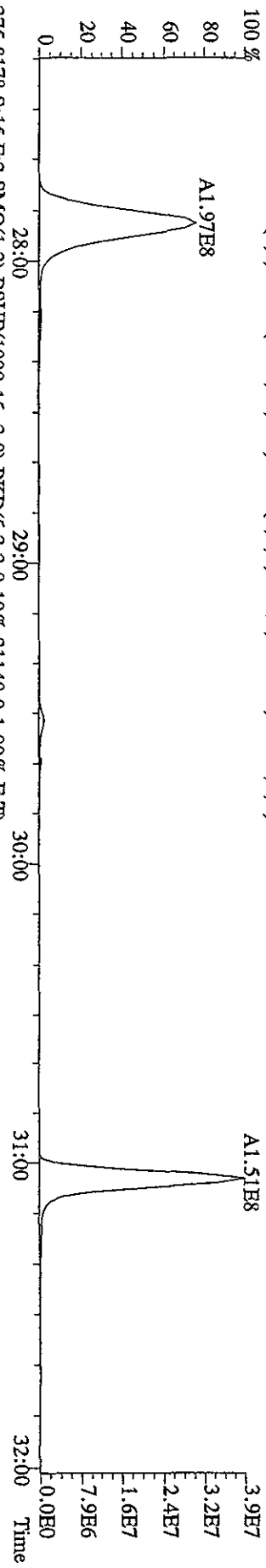
File:27SE101D5 #1-382 Acq:27-SEP-2010 19:29:50 GC EI+ Voltage SIR 70SE  
 Sample#15 Text:CP0927A :DB-5 CPSM 3732-08 Exp:DIOXINRES  
 339.8597 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2572.0,1.00%,F,T)



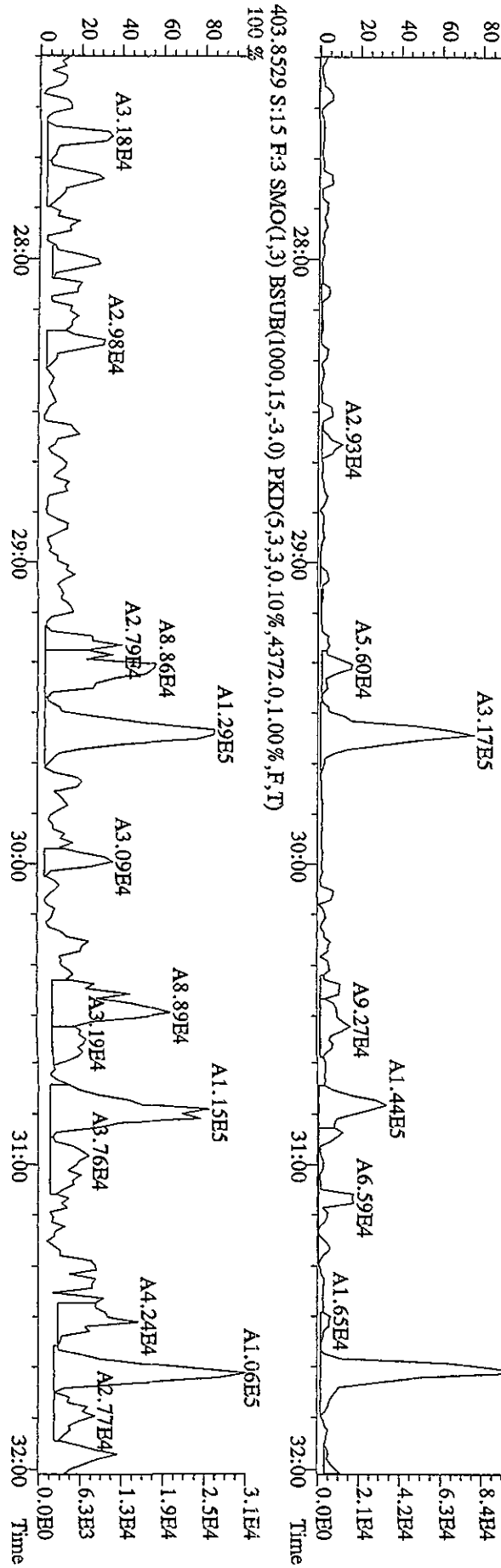
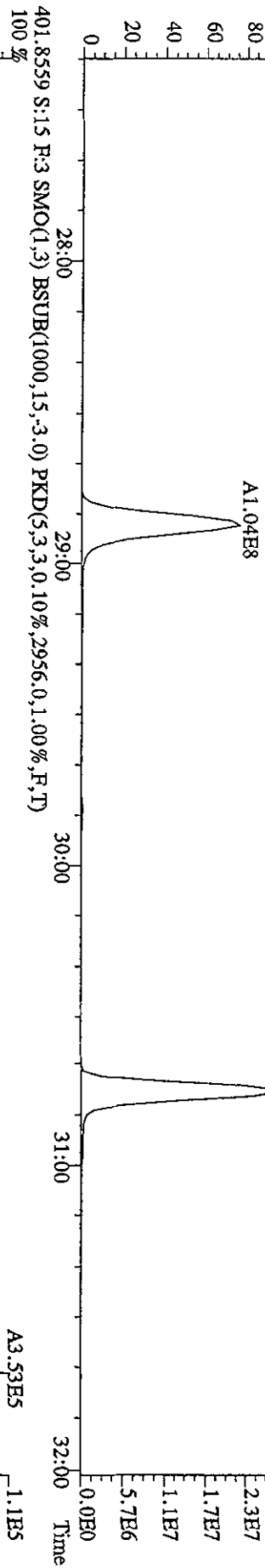
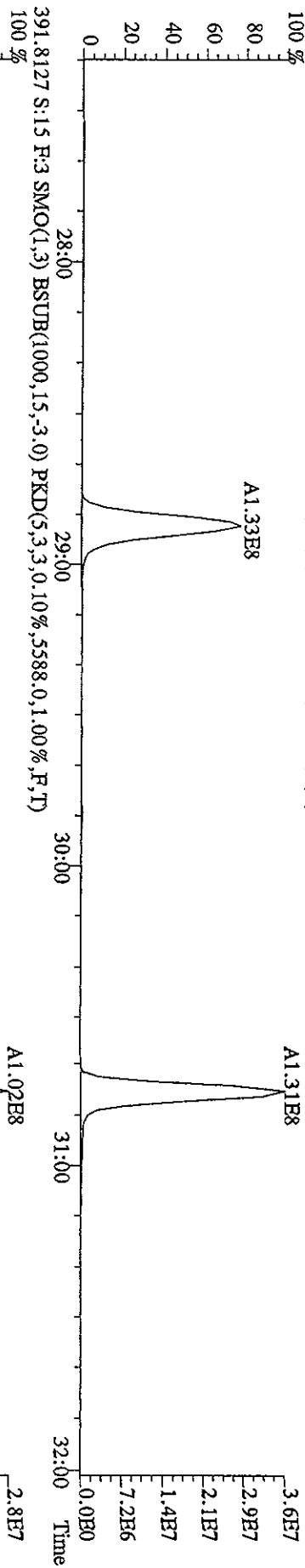
File: 27SE101D5 #1\_422 Acq: 27-SEP-2010 19:29:50 GC EI+ Voltage SIR 70SE  
 Sample#15 Text: CP0927A :DB-5 CPSM 3732-08 Exp: DIOXINRES  
 357.8516 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11572.0,1.00%,F,T)



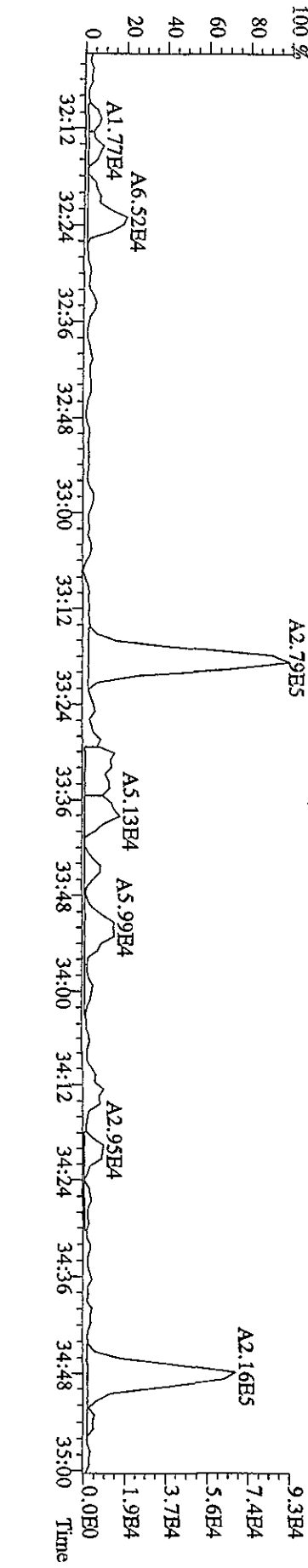
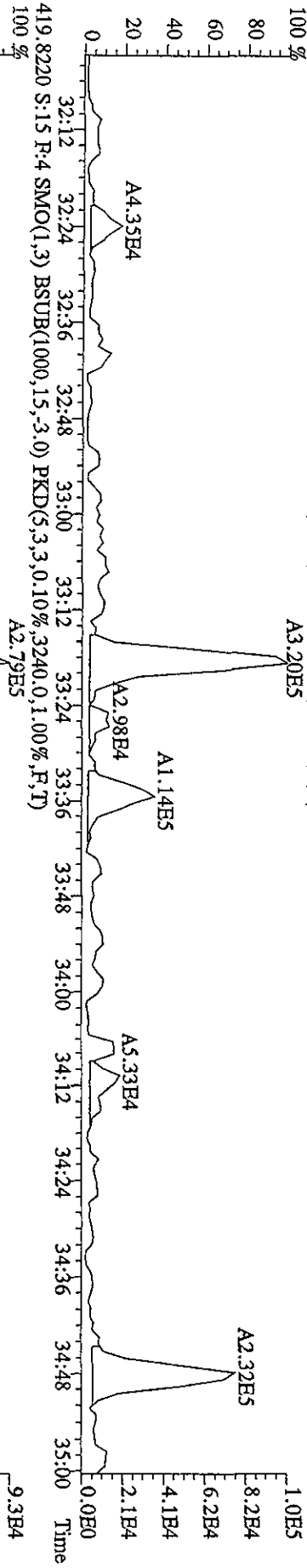
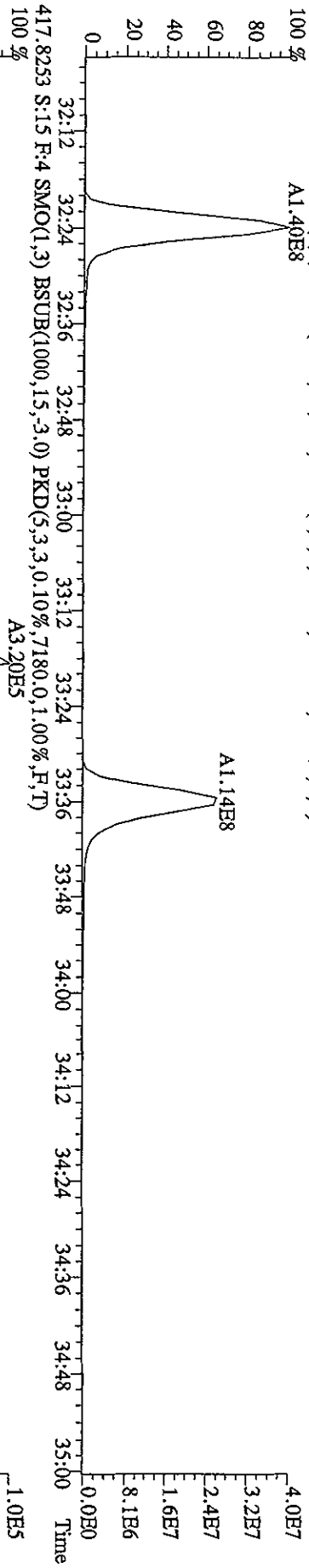
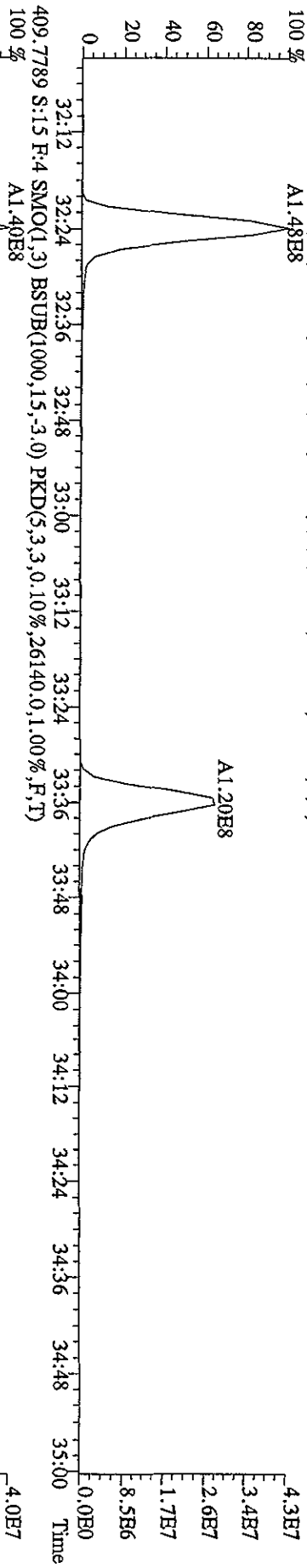
File: 27SE101D5 #1-302 Acq: 27-SEP-2010 19:29:50 GC EI+ Voltage SIR 70SE  
 Sample#15 Text: CP0927A :DB-5 CRSM 3732-08 Exp: DIOXINRES  
 373.8208 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27972.0,1.00%,F,T)



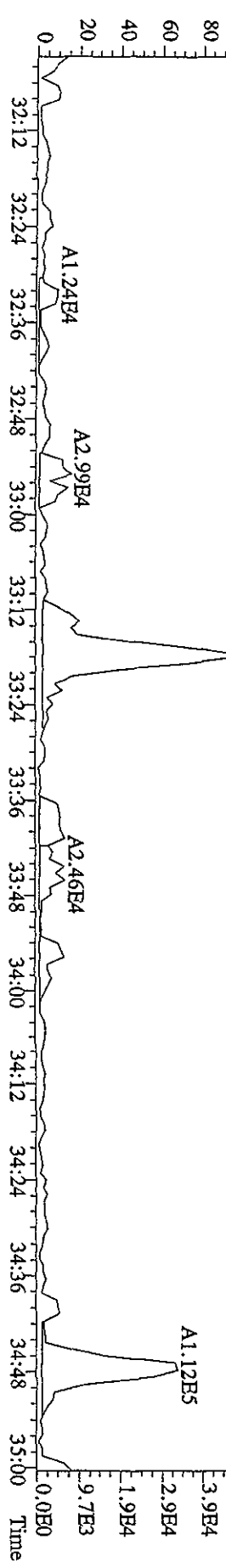
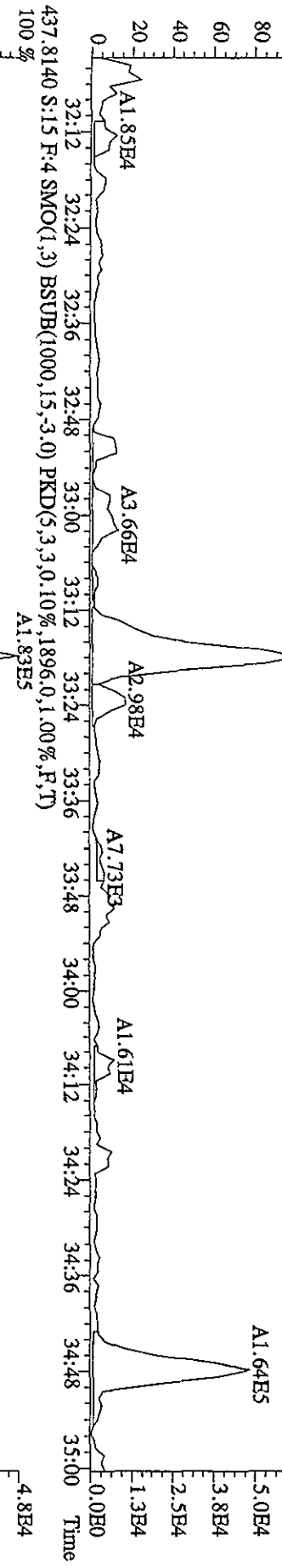
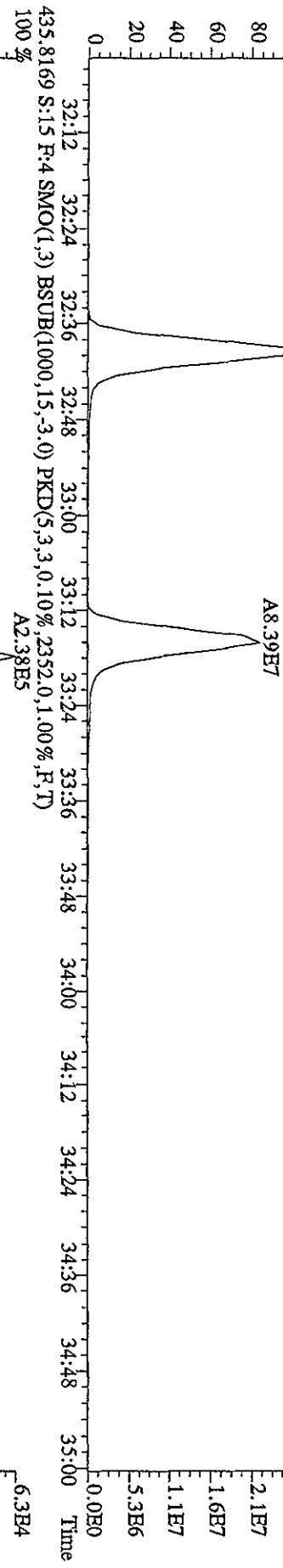
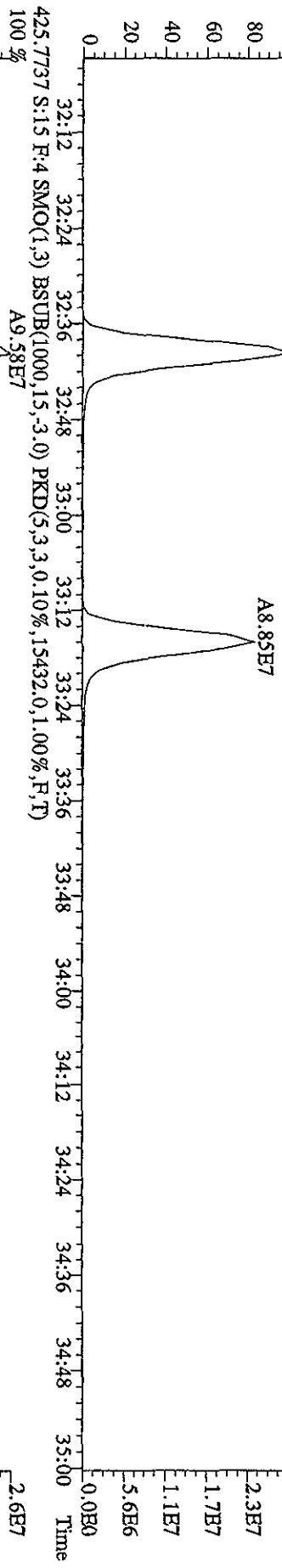
File: 27SE101D5 #1-302 Acq: 27-SEP-2010 19:29:50 GC EI+ Voltage: SIR 70SE  
 Sample#15 Text: CP0927A :DB-5 CPSM 3732-08 Exp: DIOXINRES  
 389.8157 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6952.0,1.00%,F,T)



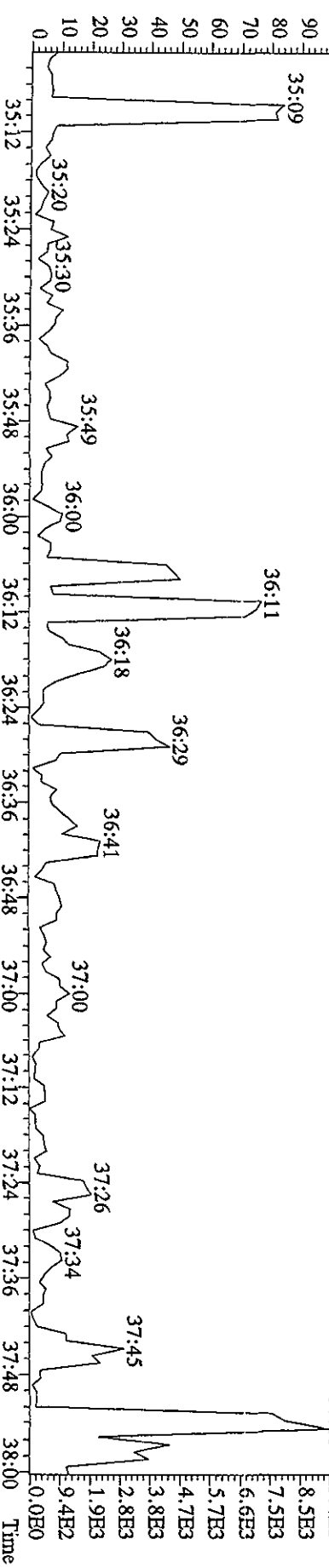
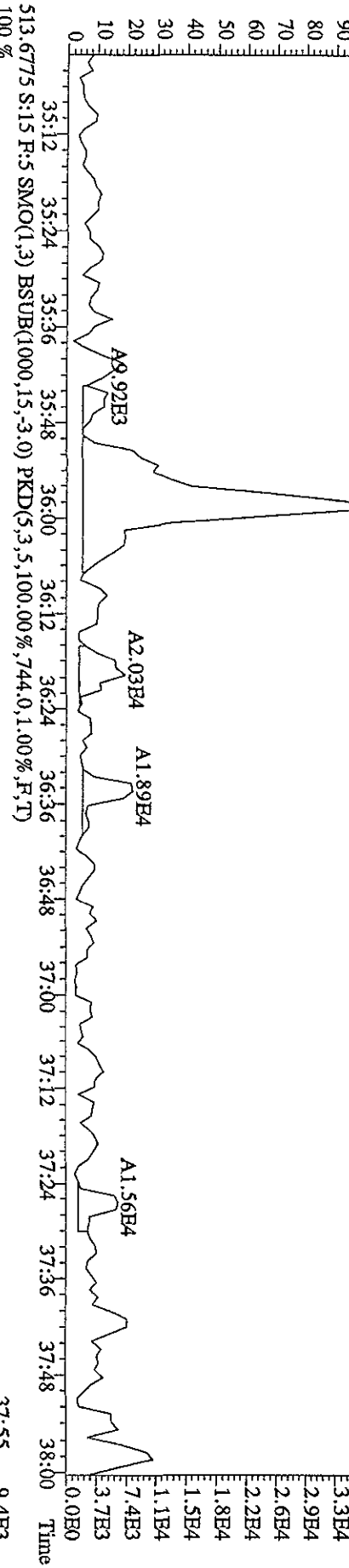
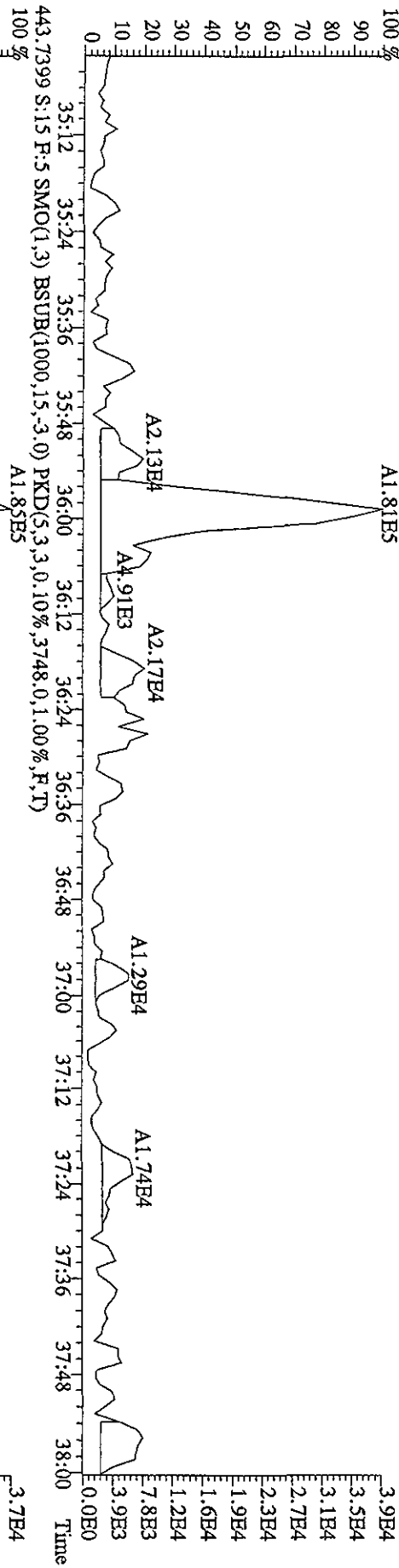
File:27SBI01D5 #1-202 Acq:27-SEP-2010 19:29:50 GC EI+ Voltage SIR 70SE  
 Sample#15 Text:CP0927A :DB-5 CPSM 3732-08 Exp:DIOXINRES  
 407.7818 S:15 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,27540.0,1.00%,F,T) A1.48E8



File: 27SE101D5 #1-202 Acq: 27-SEP-2010 19:29:50 GC EI+ Voltage SIR 70SE  
 Sample#15 Text: CP0927A :DB-5 CPSM 3732-08 Exp: DIOXINRES  
 423.7766 S:1.5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8124.0,1.00%,F,T)  
 100 % A1.01E8

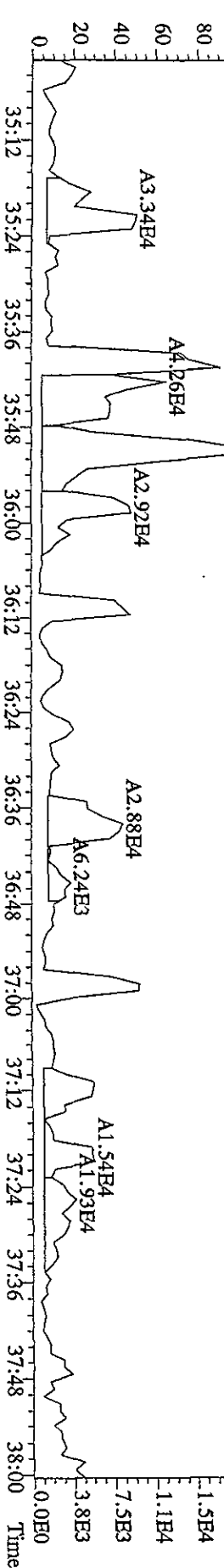
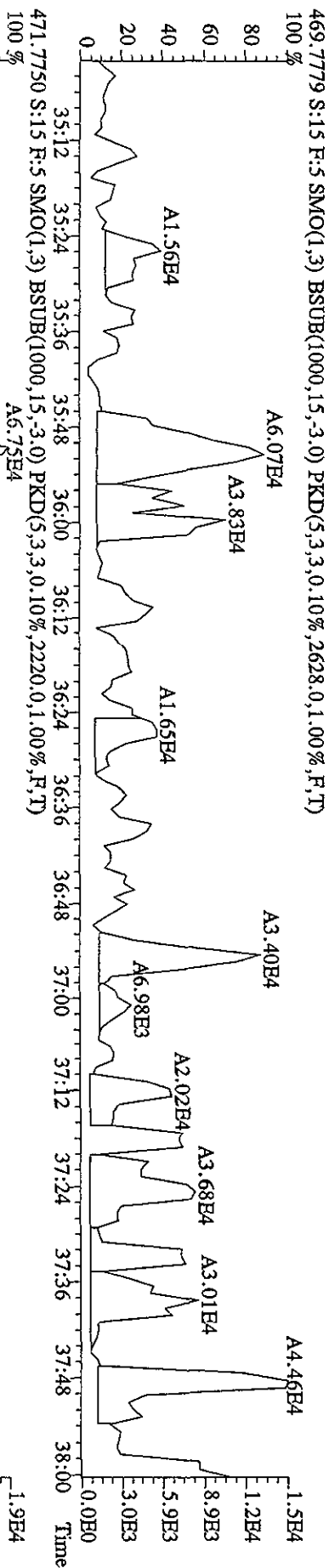
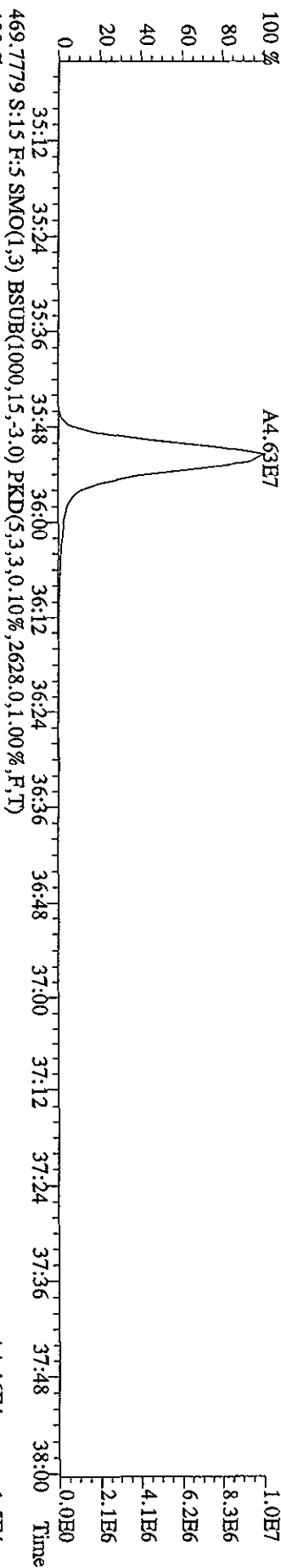
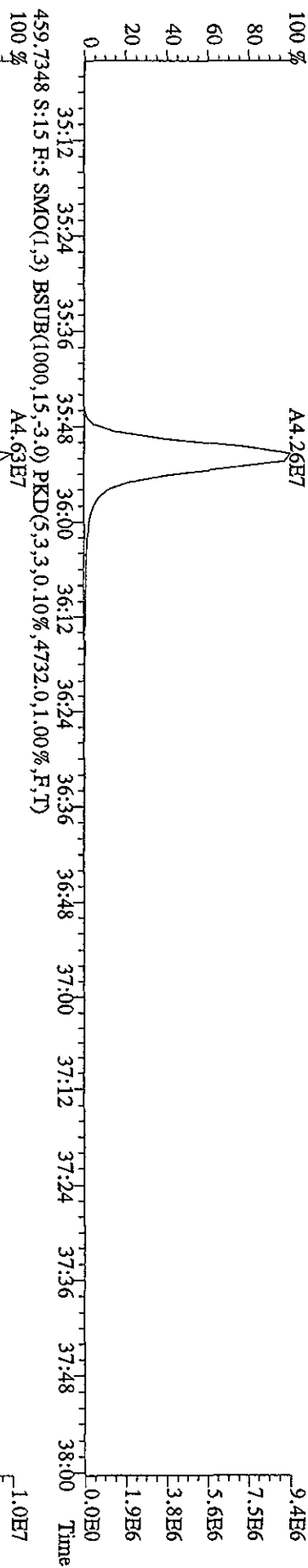


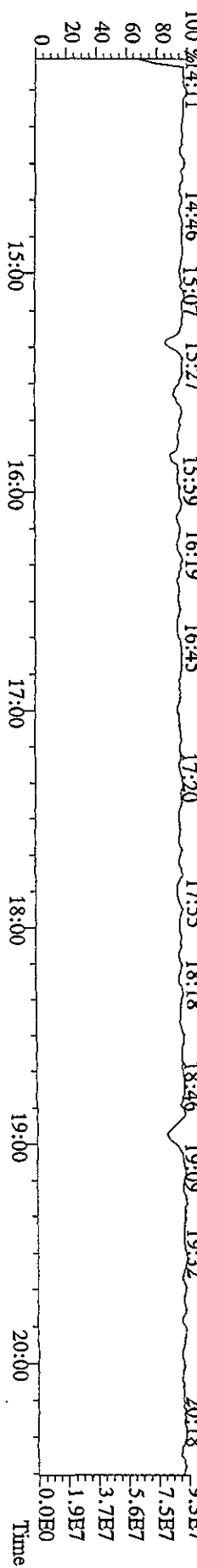
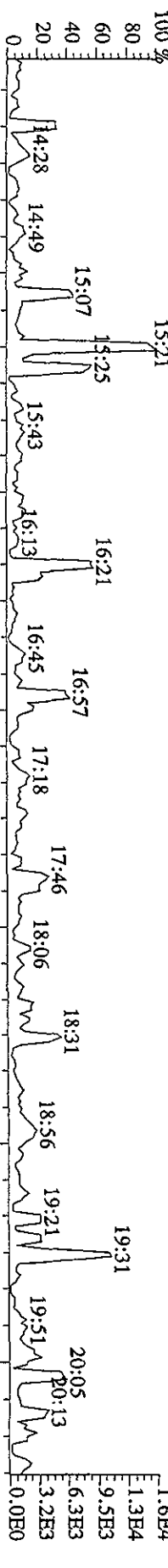
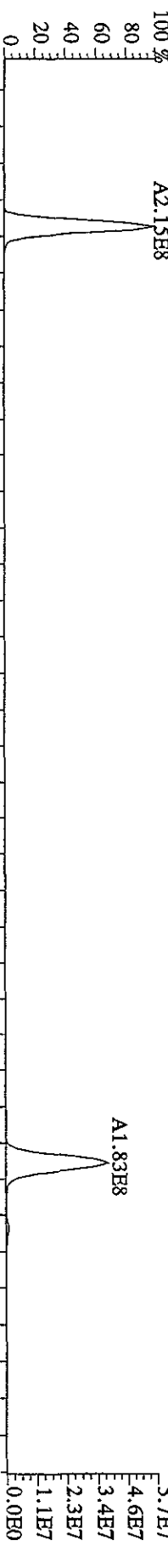
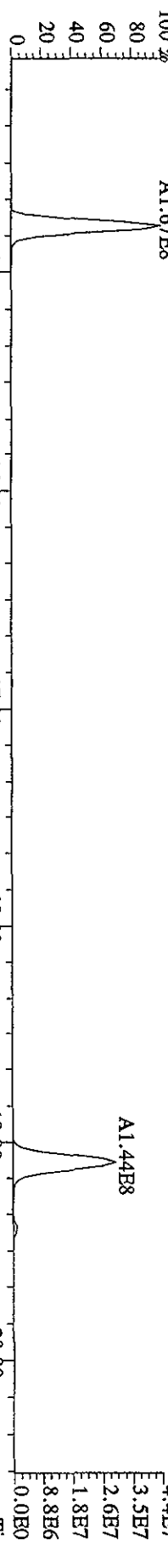
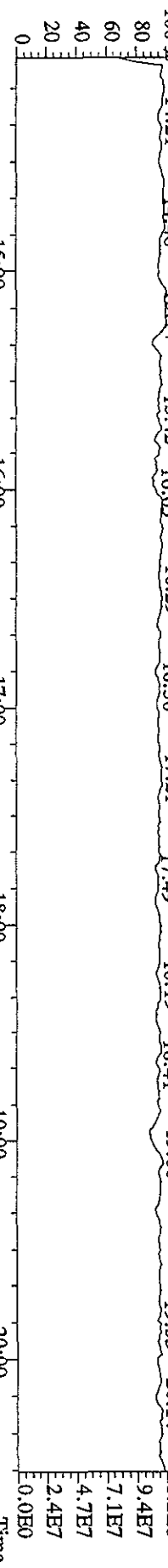
File:27/SH101D5 #1-196 Acq:27-SEP-2010 19:29:50 GC EI+ Voltage SIR 70SE  
 Sample#15 Text:CP0927A :DB-5 CPSM 3732-08 Exp:DIOXINRES  
 441.7428 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3176.0,1.00%,F,T) A1.81E5





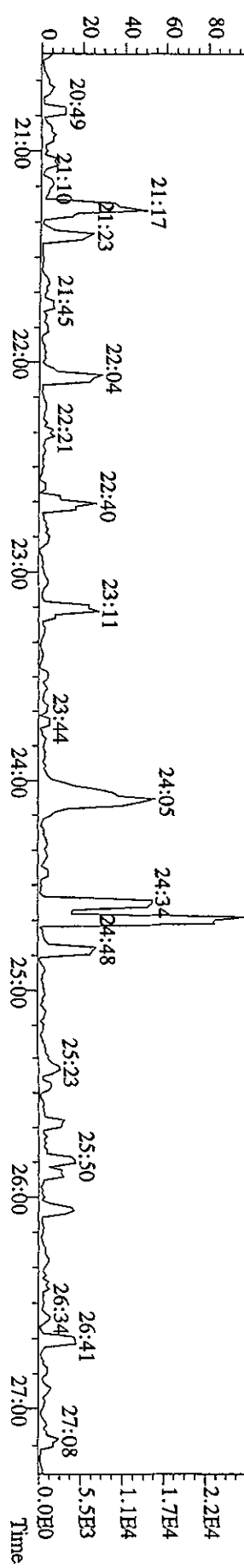
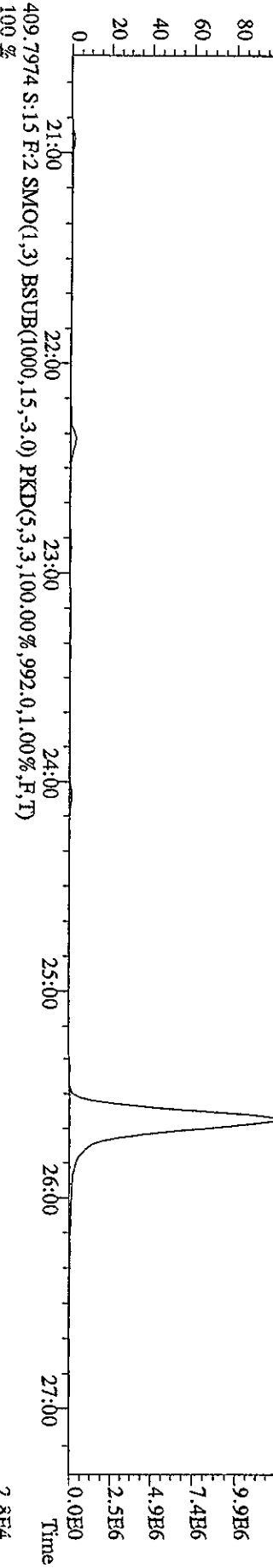
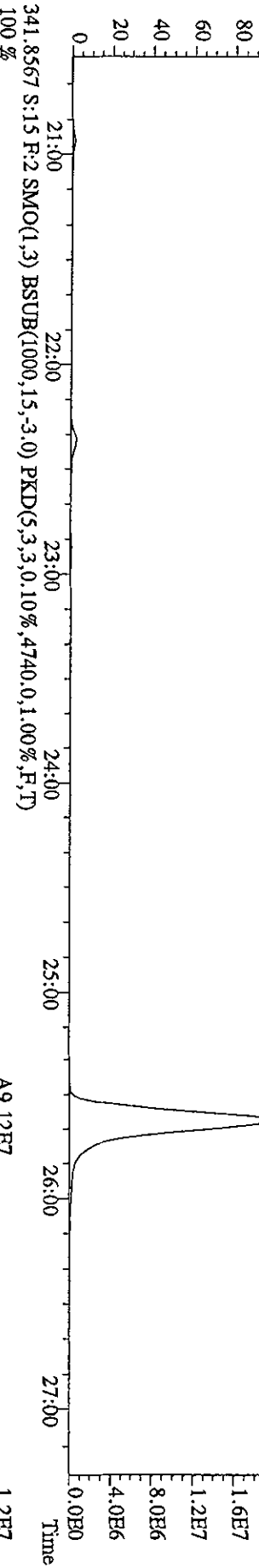
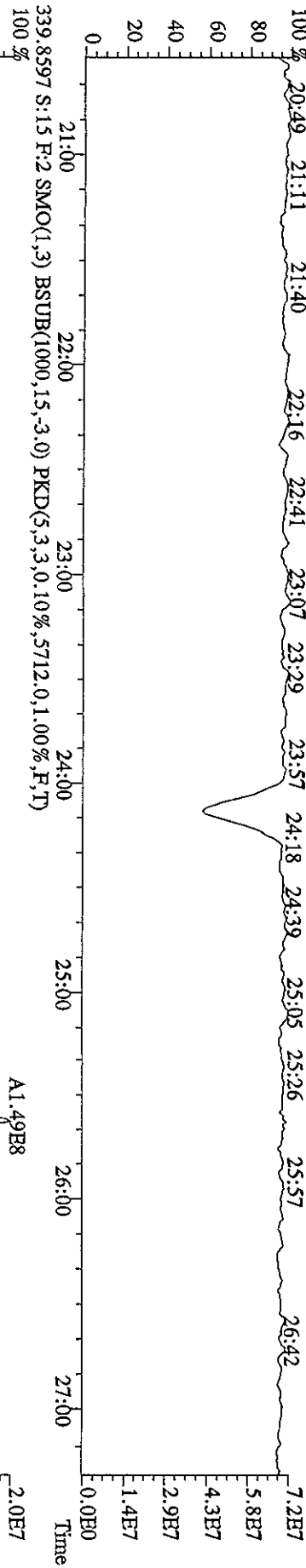
File:27SEI01D5 #1-196 Acq:27\_SEP-2010 19:29:50 GC EI+ Voltage SIR 70SE  
 Sample#15 Text:CP0927A :DB-5 CP5M 3732-08 Exp:DIOXINRES  
 457.7377 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4724.0,1.00%,F,T)  
 100 % A4.26E7





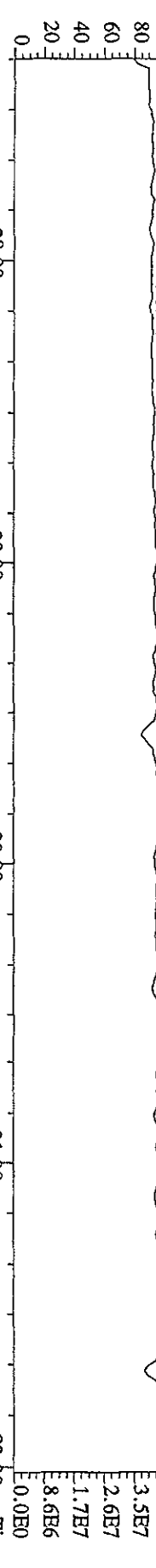
File:27SBI01D5 #1-422 Acq:27-SEP-2010 19:29:50 GC EI+ Voltage SFR 70SE  
Sample#15 Text:CP0927A :DB-5 CP5M 3732-08 Exp.:DIOXINRES

342.9792 S:15 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
100% 20:49 21:11 21:40 22:16 22:41 23:07 23:29 23:57 24:18 24:39 25:05 25:26 25:57 26:42

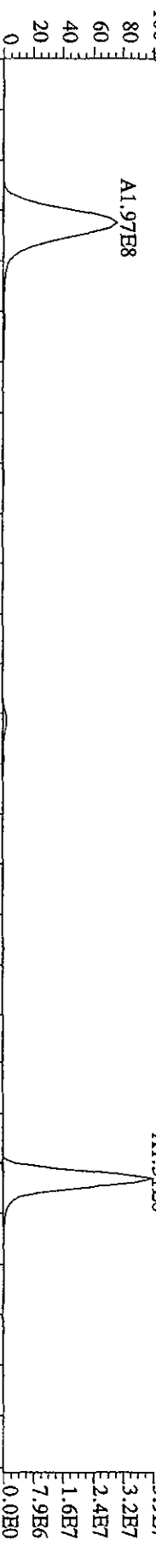


Rie:27SEI01D5 #1-302 Acq:27-SEP-2010 19:29:50 GC EI+ Voltage SIR 70SE  
 Sample#15 Text:CP0927A :DB-5 CPSM 3732-08 Exp:DIOXINRES

392.9760 S:15 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100% 27:33 27:48 28:11 28:29 28:58 29:16



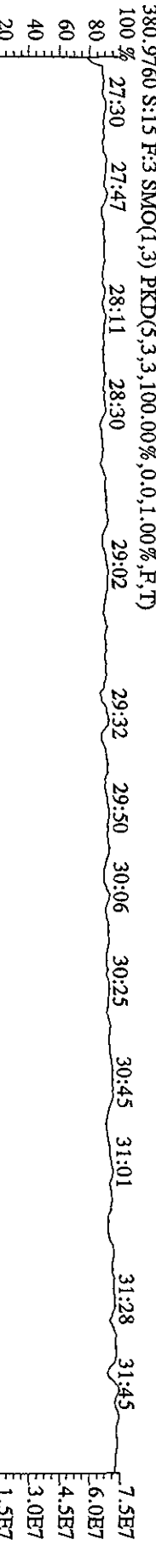
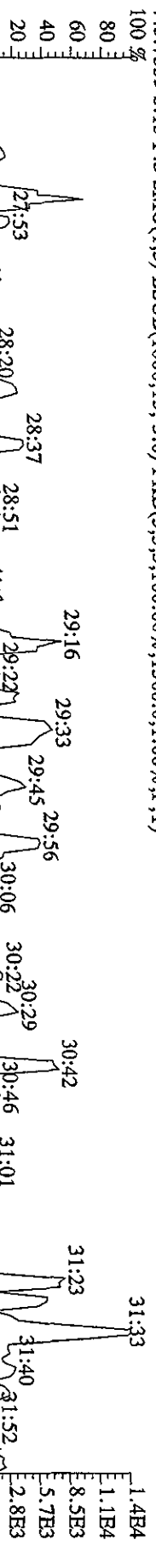
373.8208 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27972.0,1.00%,F,T)  
 100% 28:00 29:00 30:00 31:00 32:00



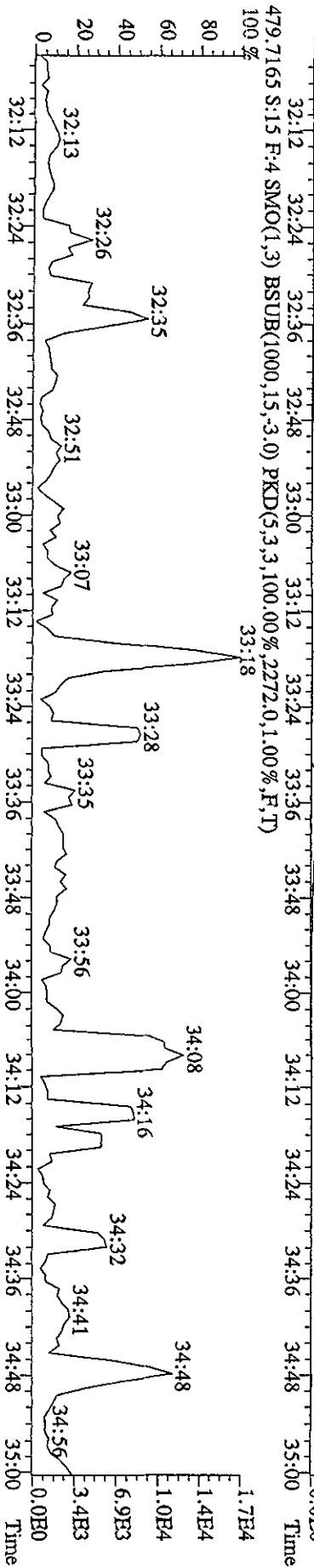
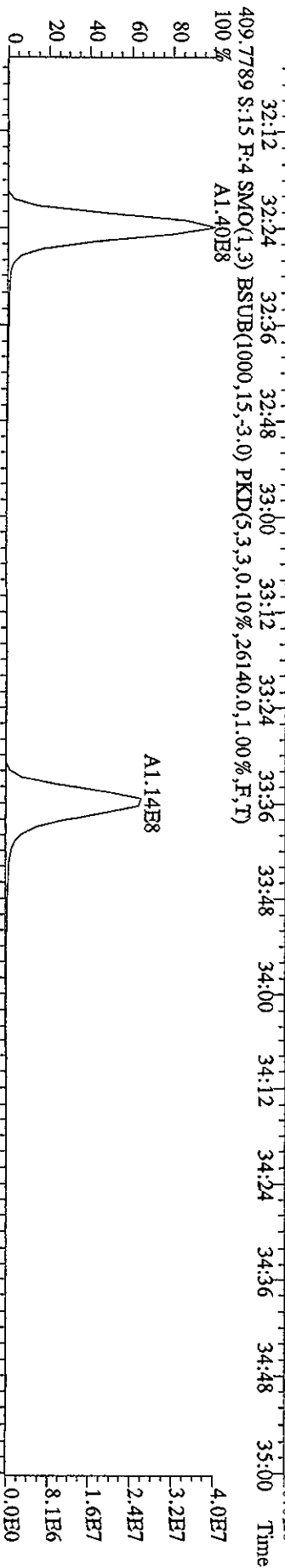
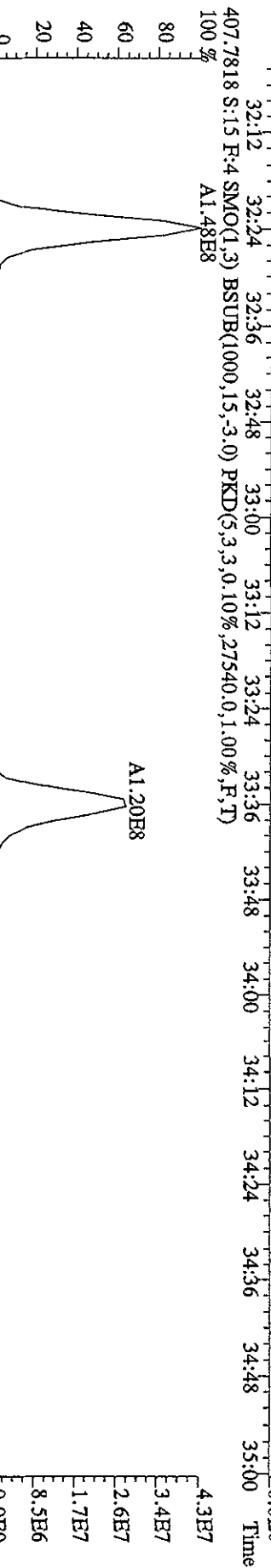
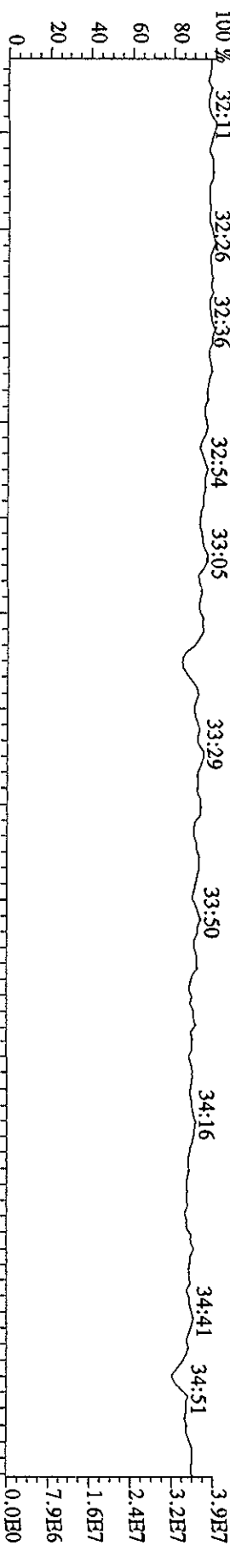
445.7555 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1360.0,1.00%,F,T)  
 100% 28:00 29:00 30:00 31:00 32:00



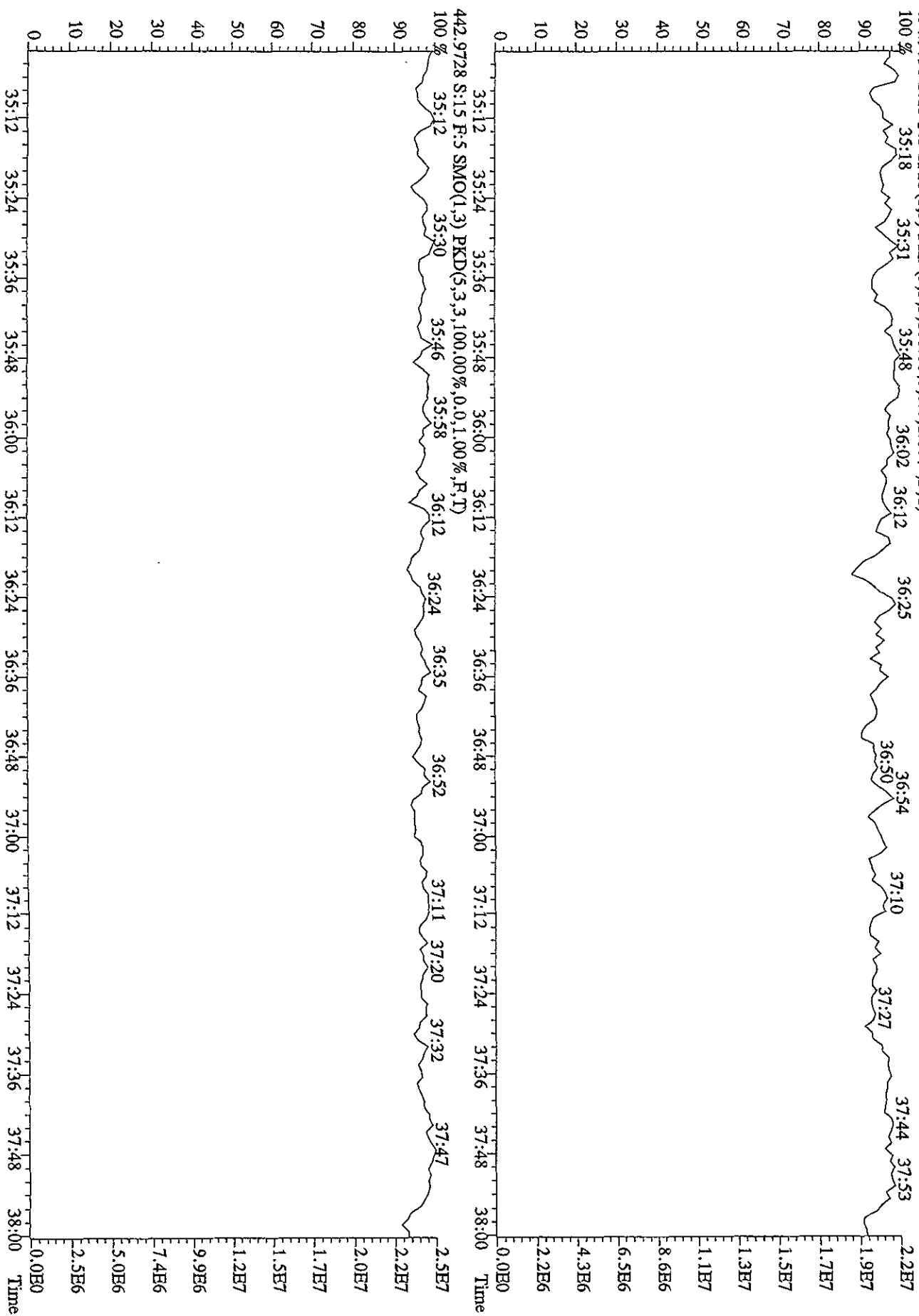
380.9760 S:15 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100% 27:30 27:47 28:11 28:30 29:00 29:02 29:32 29:50 30:06 30:25 30:45 31:01 31:28 31:45



File:27SEI01D5 #1-202 Acq:27-SEP-2010 19:29:50 GC EI+ Voltage SIR 70SE  
 Sample#15 Text:CP0927A :DB-5 CP5M 3732-08 Exp:DIOXINRES



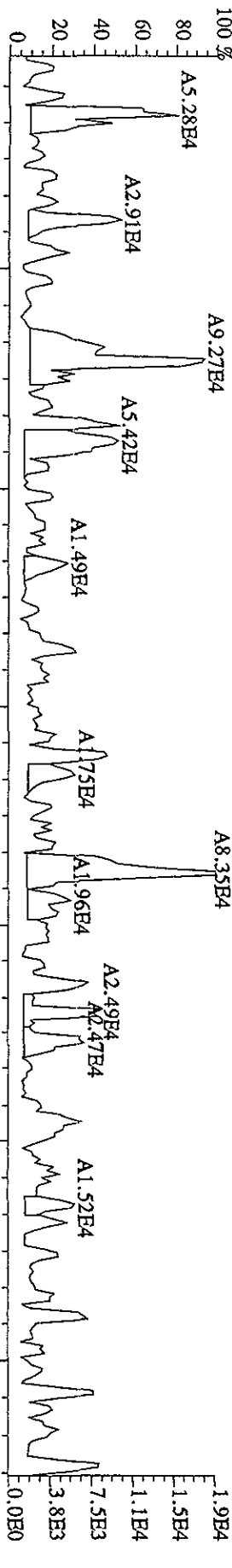
File: 27SEI01D5 #1-196 Acq: 27-SEP-2010 19:29:50 GC EI+ Voltage SIR 70SE  
 Sample#15 Text: CP0927A :DB-5 CPSM 3732-08 Exp: DIOXINRES  
 454.9728 S:1.5 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



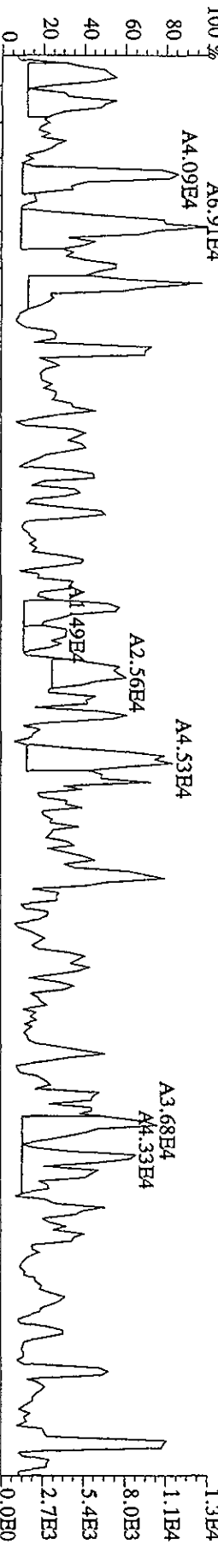
File:275E101D5 #1-382 Acq:27-SEP-2010 20:55:58 GC EI+ Voltage SIR 70SE

Sample#17 Text:L7EX6-1-AA :G0I230000-392B (491) Exp:DIOXINRES

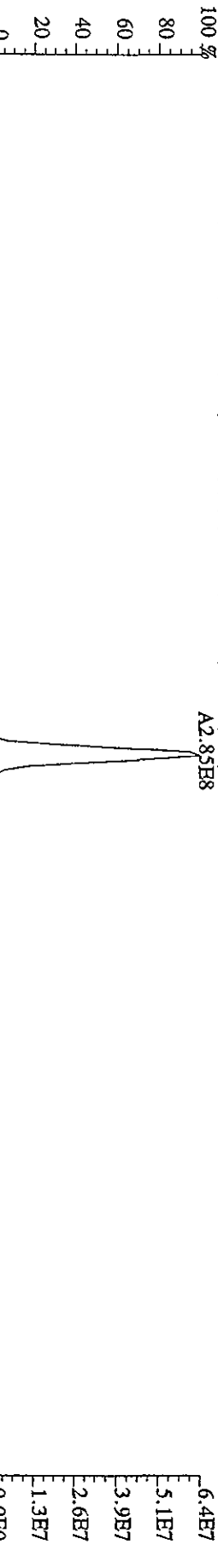
303.9016 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3416,0.1,0.0%,F,T)



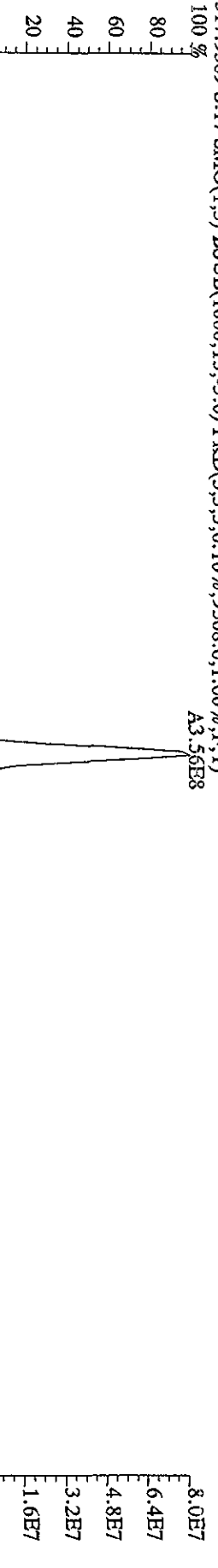
305.8987 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4076,0.1,0.0%,F,T)



315.9419 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8664,0.1,0.0%,F,T)



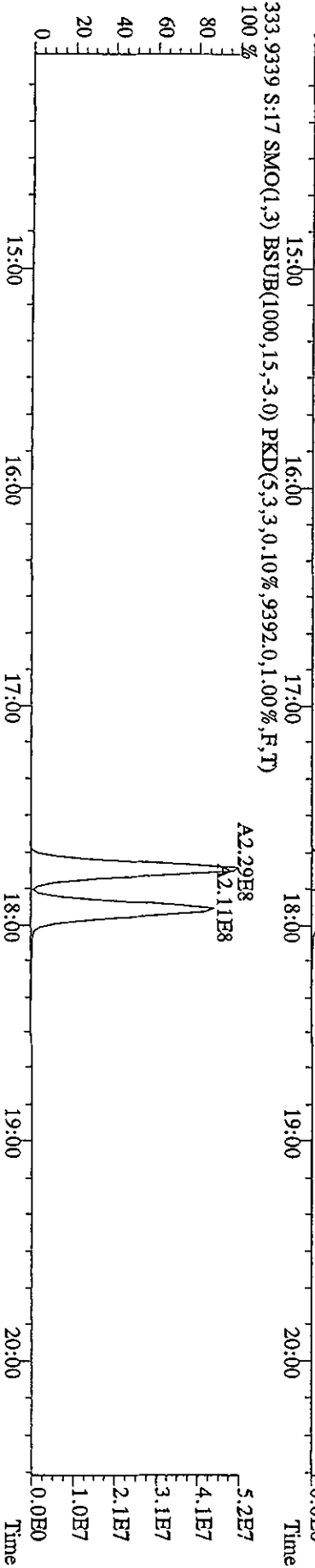
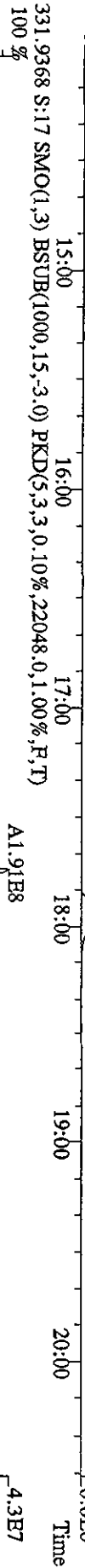
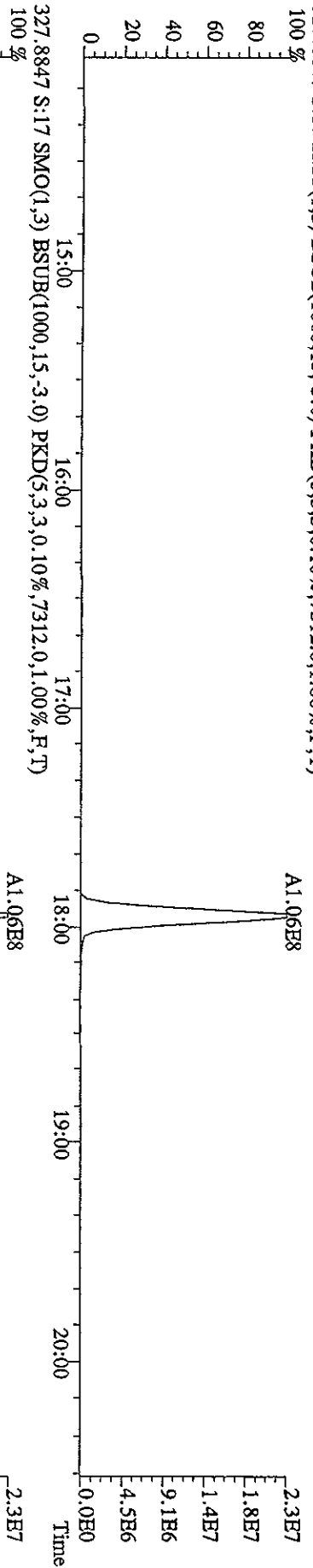
317.9389 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9508,0.1,0.0%,F,T)





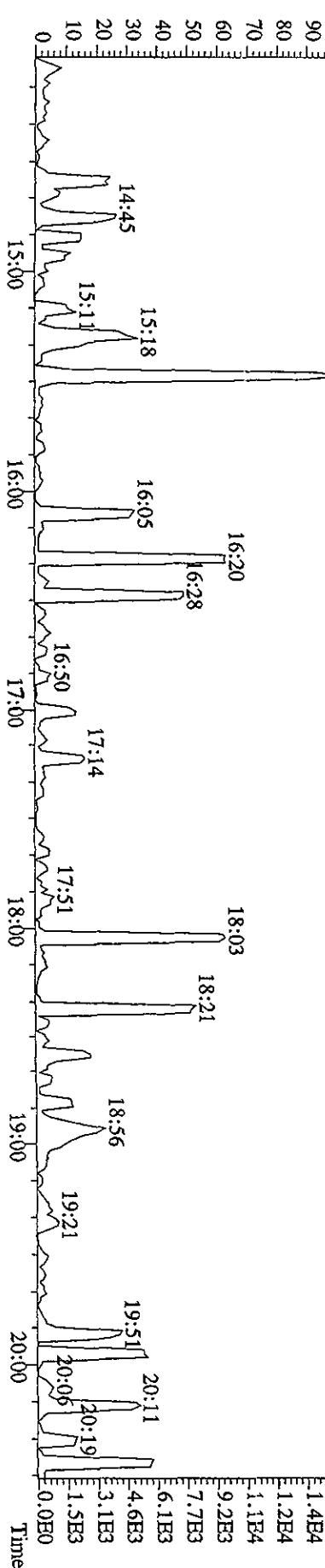
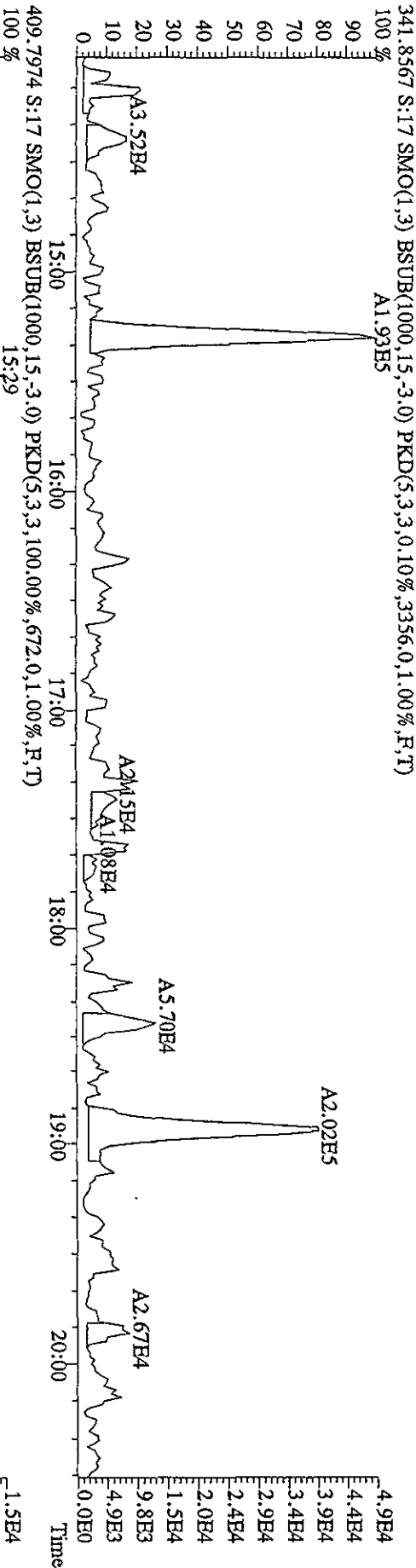
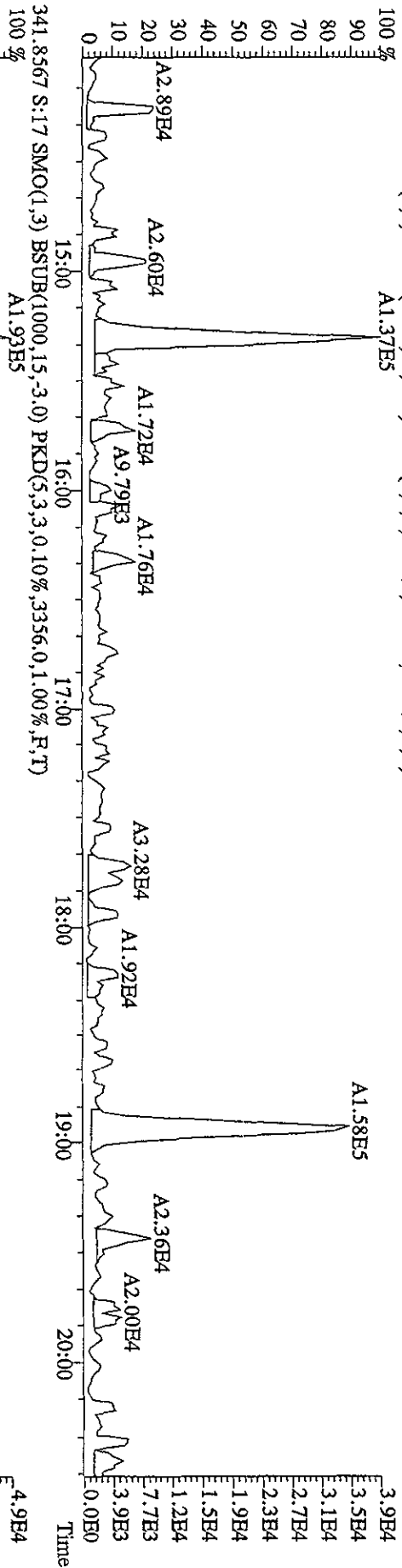


File: 27SE101D5 #1-382 Acq: 27-SEP-2010 20:55:58 GC EI+ Voltage SIR 70SE  
 Sample#17 Text: LTEX6-1-AA : G01230000-392B (491) Exp: DIOXINRES  
 327.8847 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7312.0,1.00%,F,T)





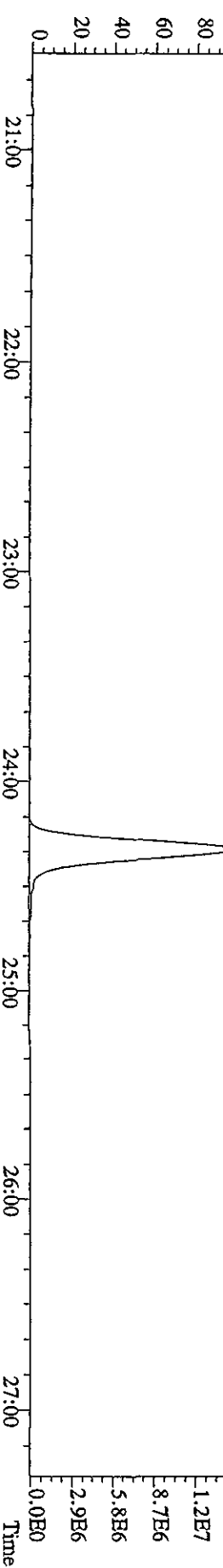
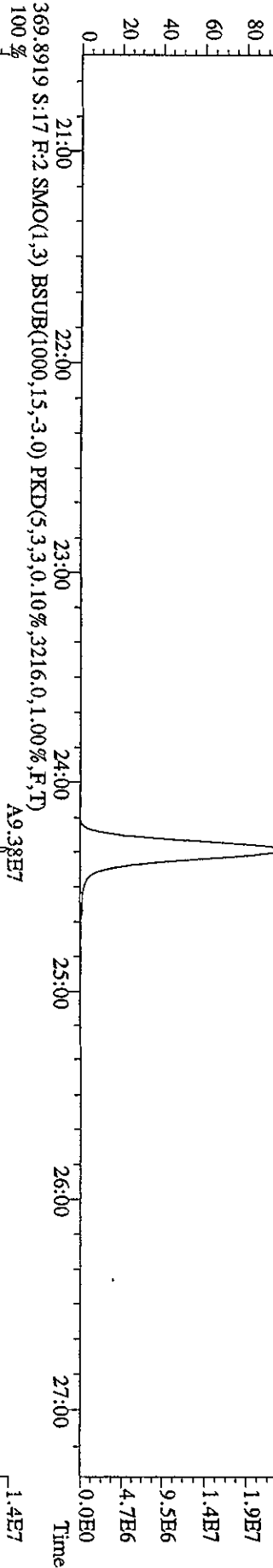
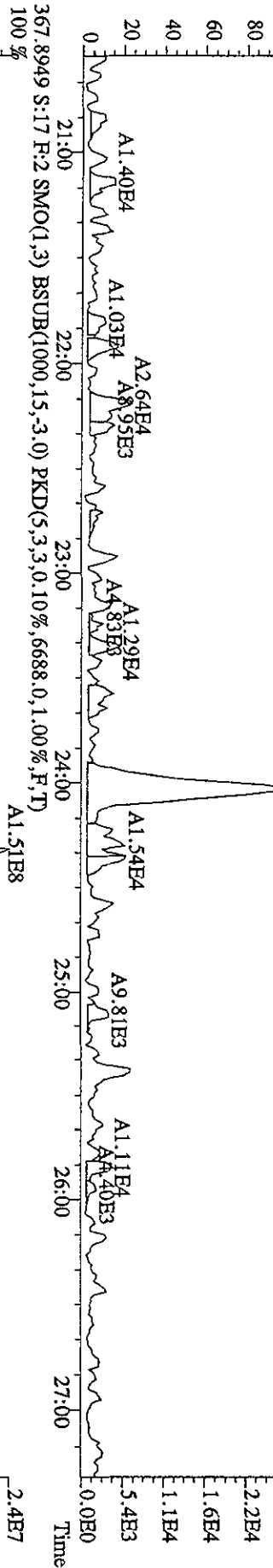
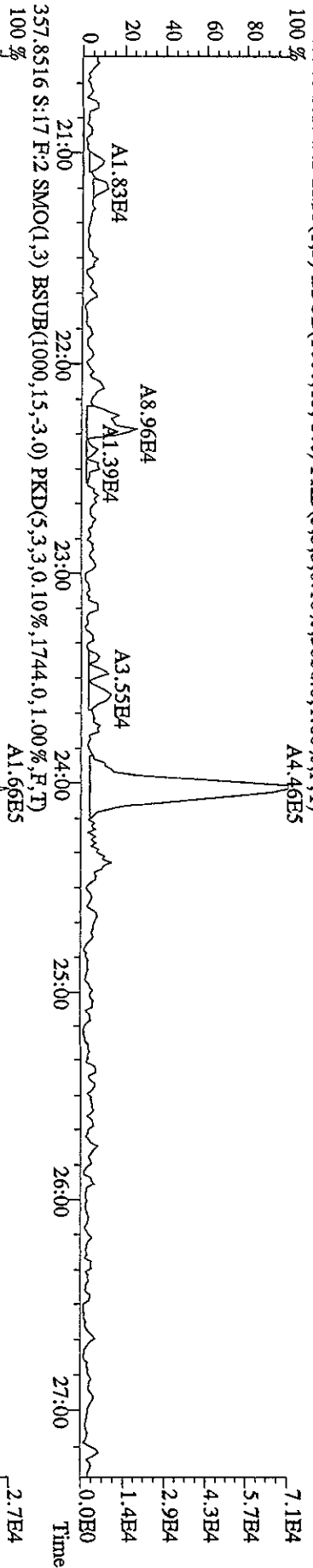
File: 27SE101D5 #1-382 Acq: 27-SHP-2010 20:55:58 GC EI+ Voltage: 500V  
 Sample# 17 Text: L7EX6-1-AA : G01230000-392B (491) Exp: DIOXINRES  
 339\_8597 S:17 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2264,0,1.00%,F,T)



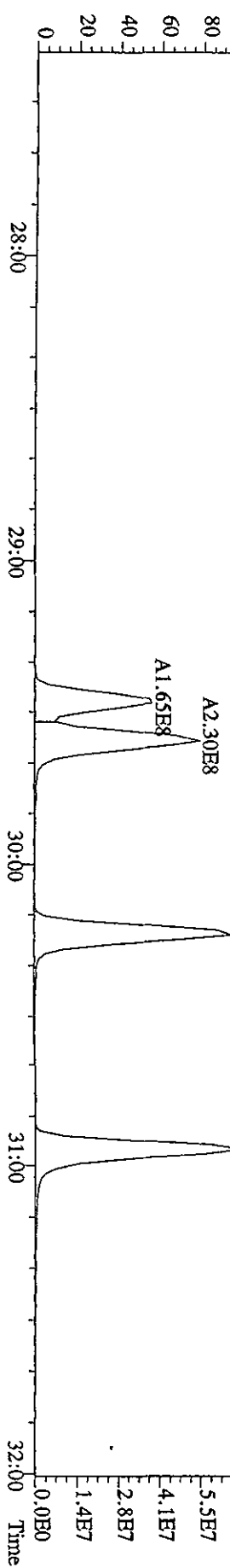
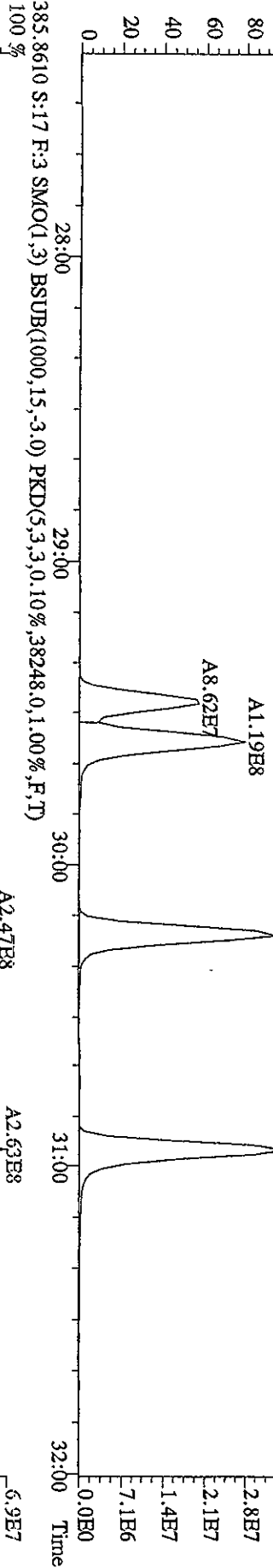
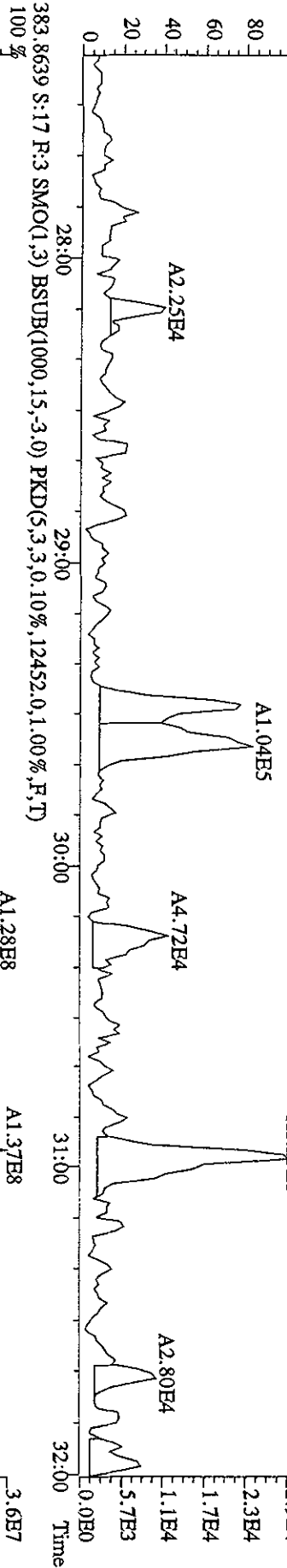
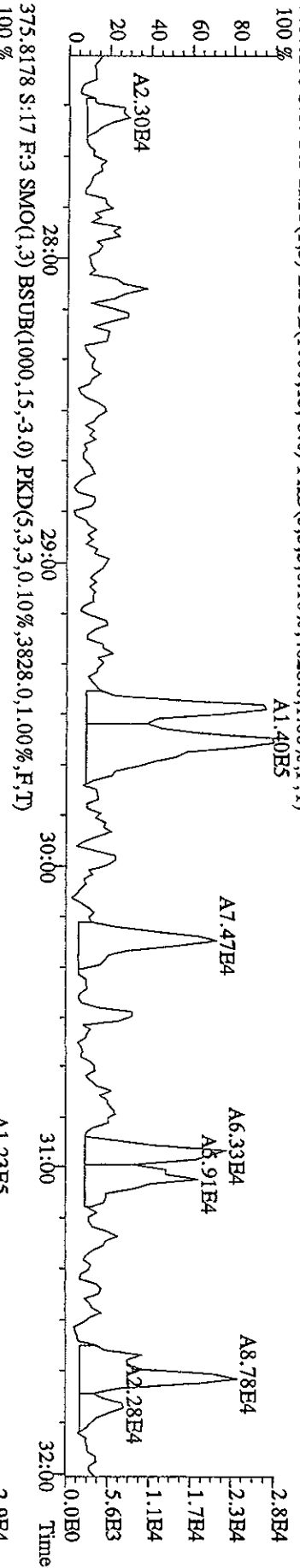
File:27SE101D5 #1-422 Acq:27-SEP-2010 20:55:58 GC EI+ Voltage SIR 70SE

Sample#17 Text:L7EX6-1-AA :G01230000-392B (491) Exp:DIOXINRES

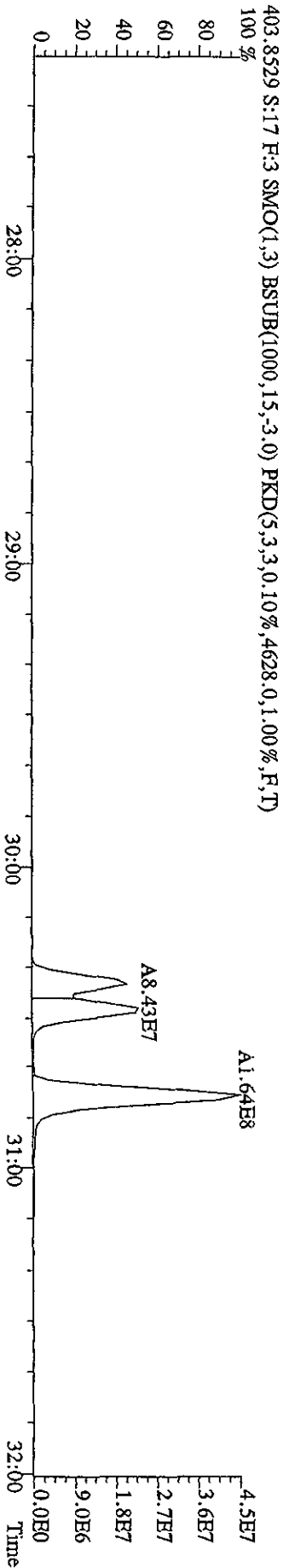
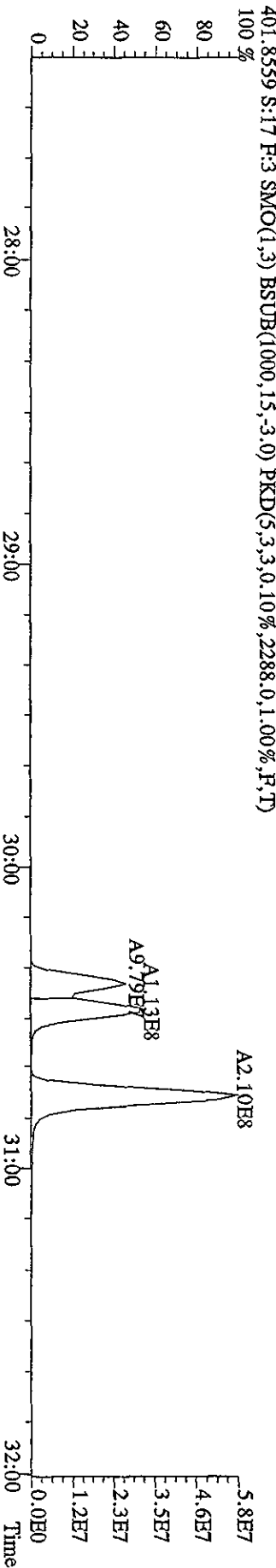
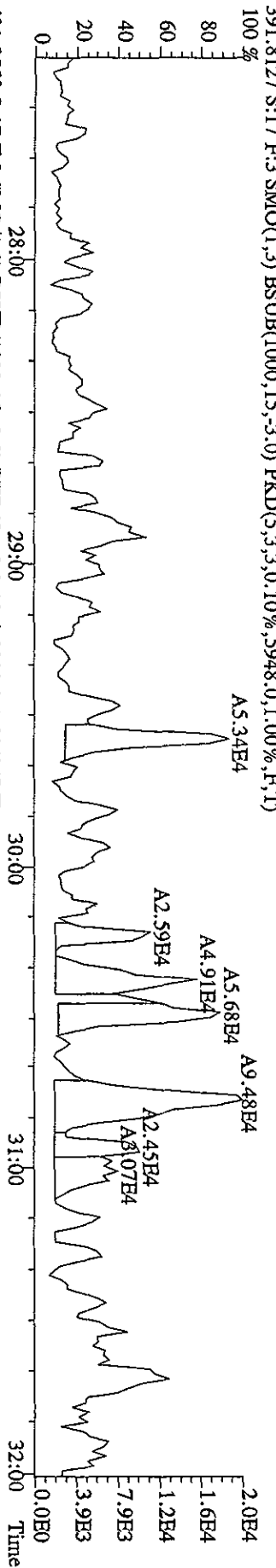
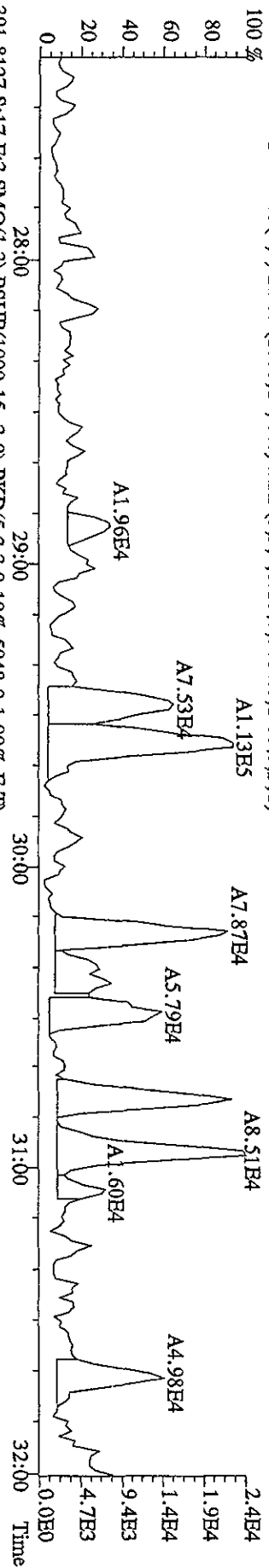
355.8546 S:17 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3856.0,1.00%,F,T)



File:27SE101D5 #1-301 Acq:27-SEP-2010 20:55:58 GC EI+ Voltage SIR 70SE  
 Sample#17 Text:L7EX6-1-AA :G0I230000-392B (491) Exp:DIOXINRES  
 373.8208 S:17 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4628,0,1,00%,F,T)  
 100 %



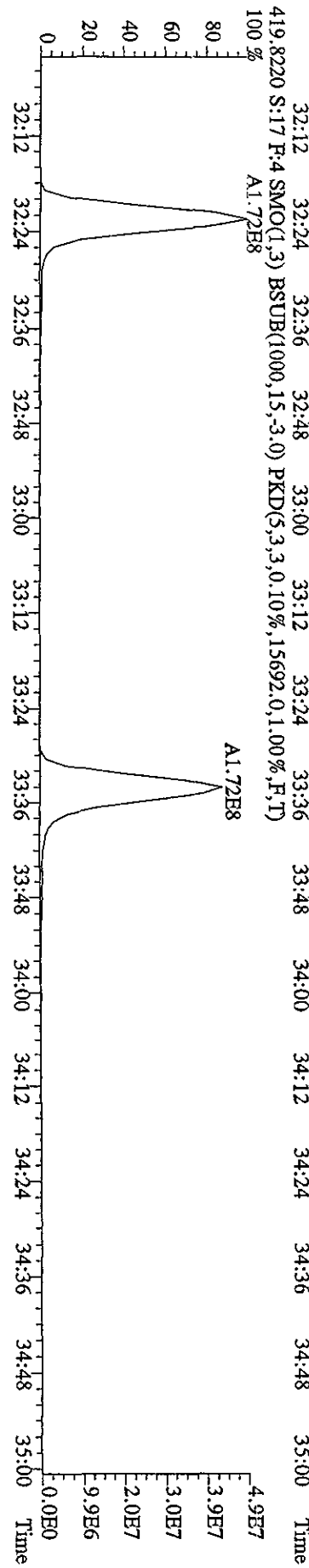
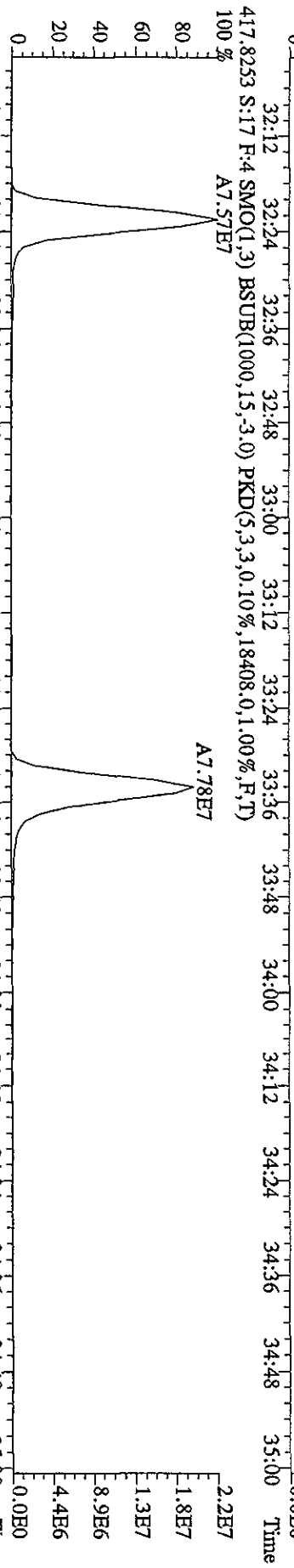
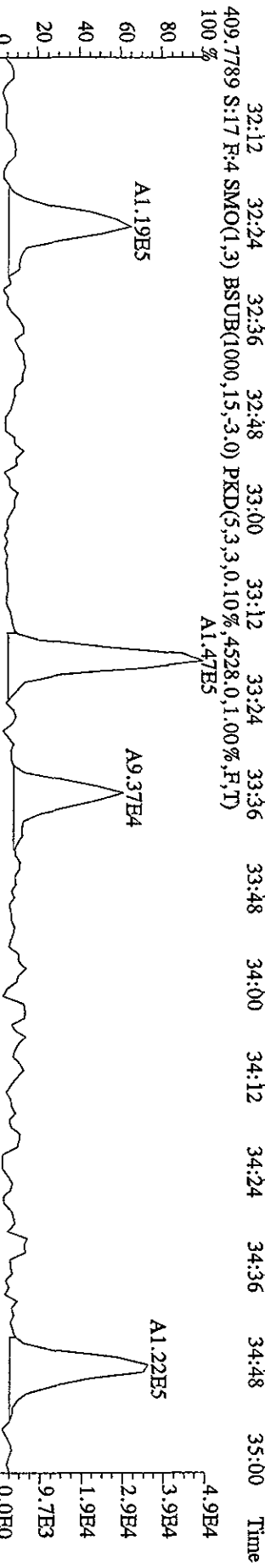
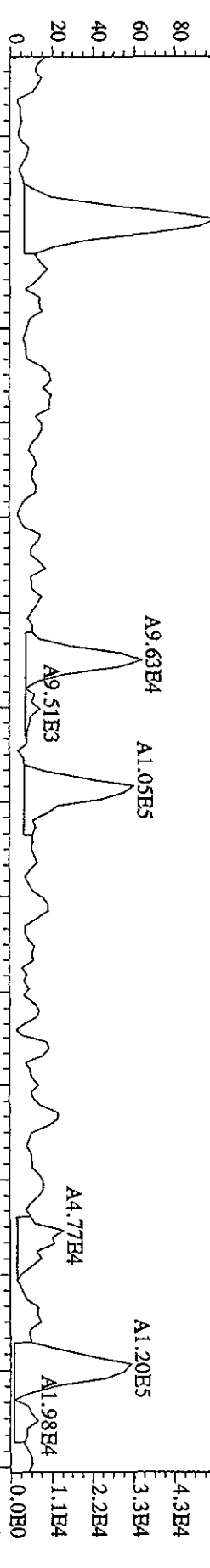
File: 27SE101D5 #1-301 Acq: 27-SEP-2010 20:55:58 GC EI+ Voltage SIR 70SE  
 Sample#17 Text: L7BX6-1-AA : G01230000-392B (491) Exp: DIOXINRES  
 389, 8157 S: 17 F: 3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3684,0,1,00%,F,T)



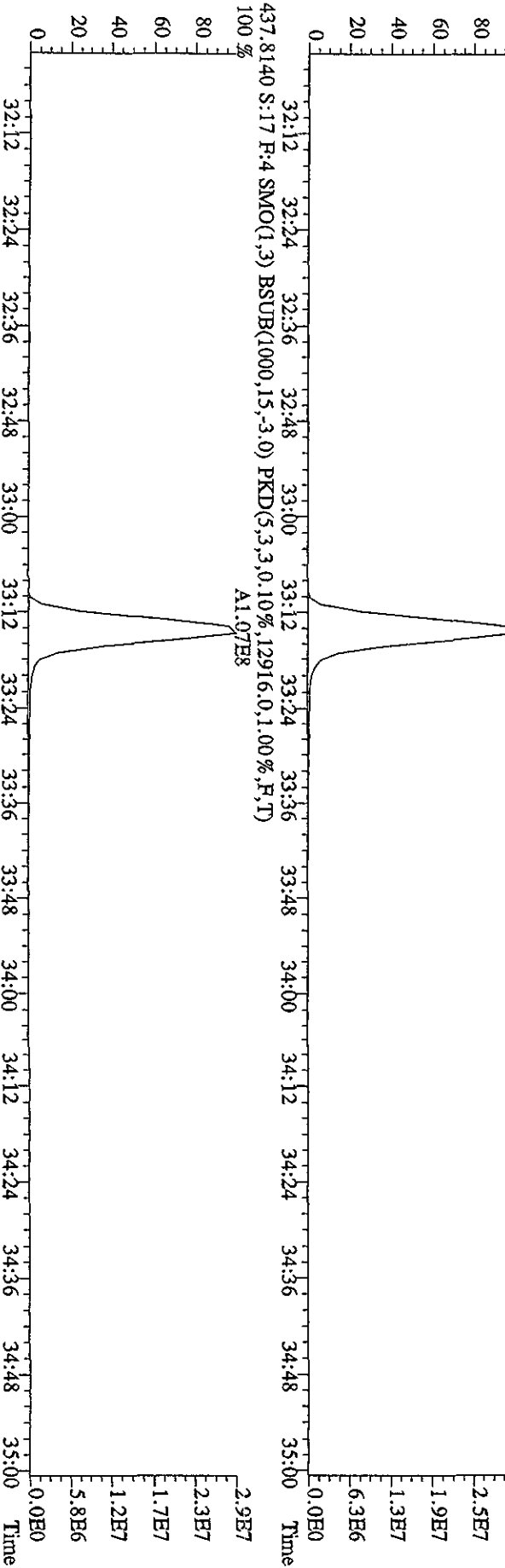
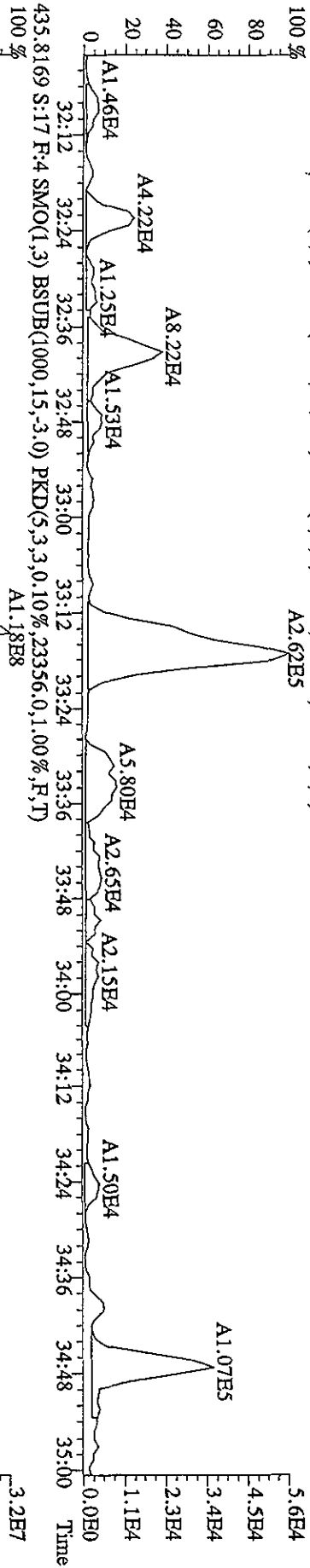
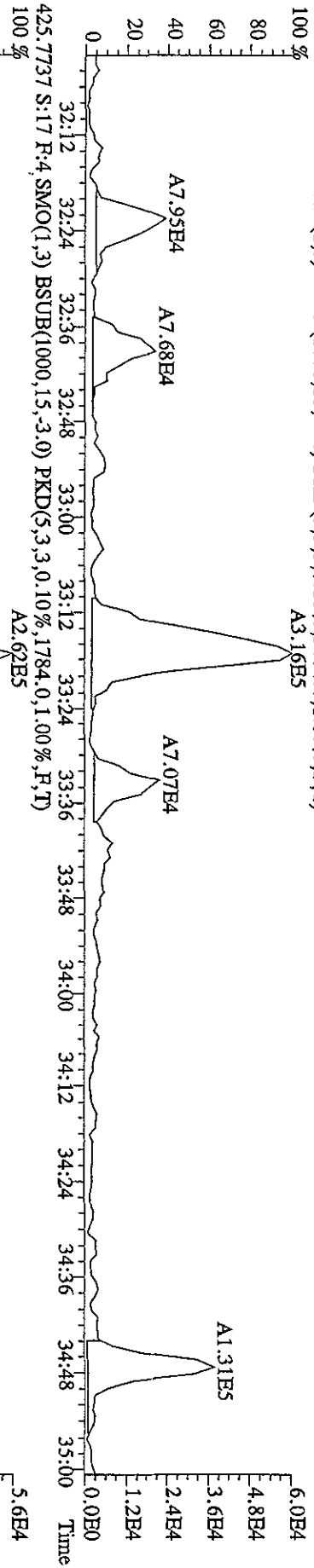
File: 27SEI01D5 #1-203 Acq: 27-SBP-2010 20:55:58 GC EI+ Voltage SIR 70SE

Sample# 17 Text: L7EX6-1-AA : G01230000-392B (491) Exp: DIOXINRES

407.7818 S: 17 F: 4 SMO(1.3) BSUB(1000,15,3.0) PKD(5,3,3,0,10%,7352.0,1.00%,F,T)

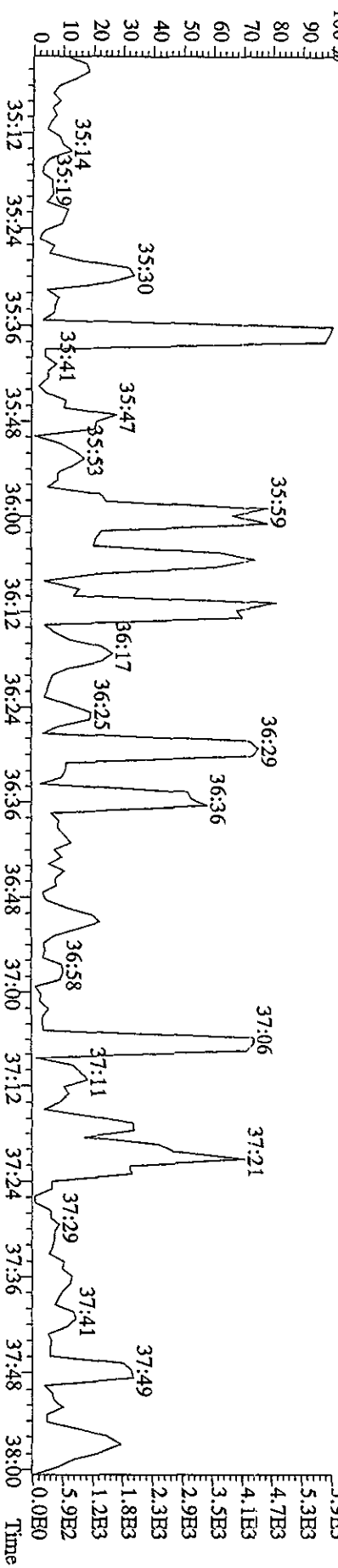
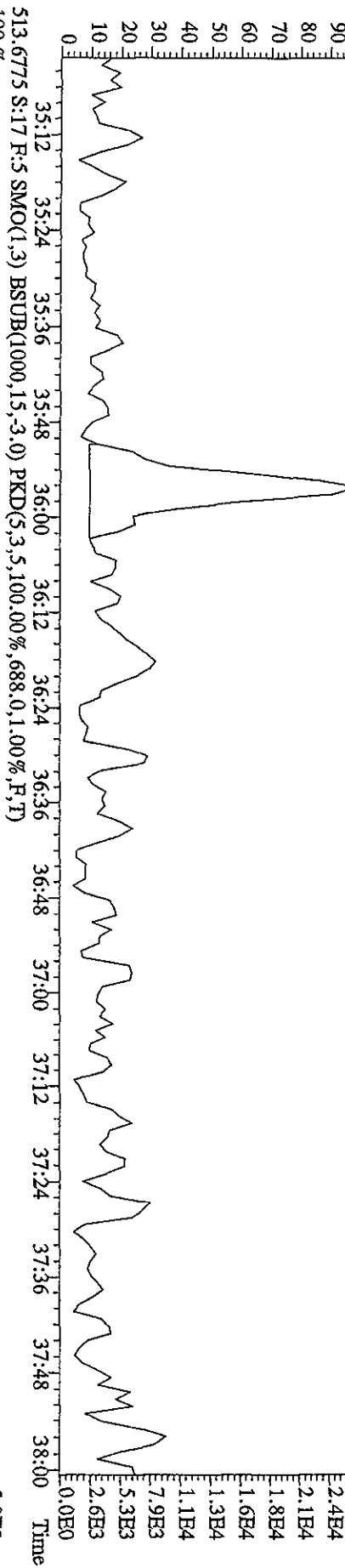
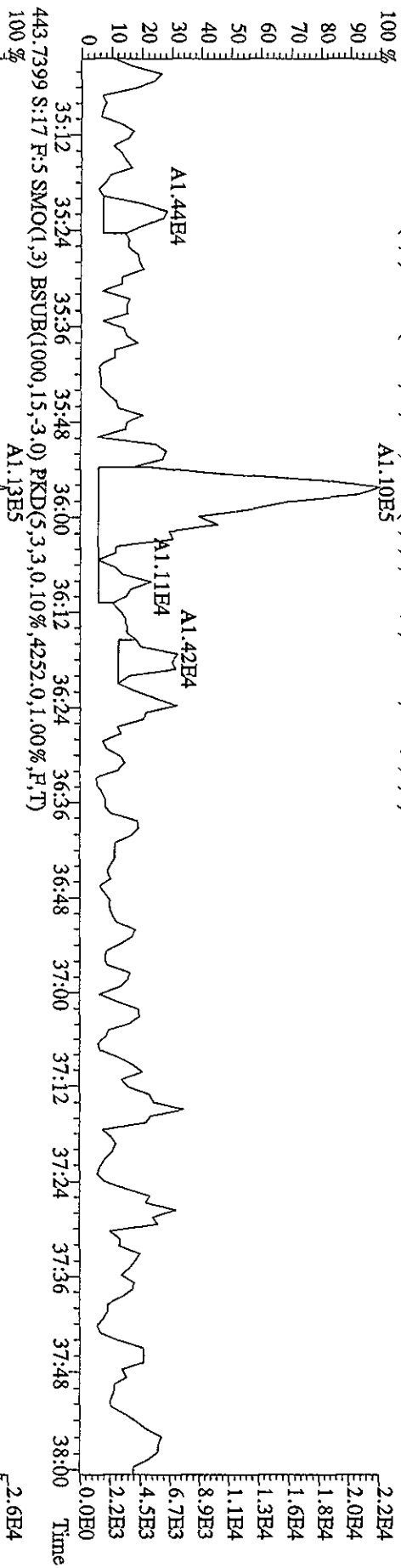


File:27SEI01D5 #1-203 Acq:27-SEP-2010 20:55:58 GC EI+ Voltage SIR 70SE  
 Sample#17 Text:LTEX6-1-AA :G01230000-392B (491) Exp:DIOXINRES  
 423.7766 S:17 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3404.0,1.00%,F,T)  
 100 % A3.16E5

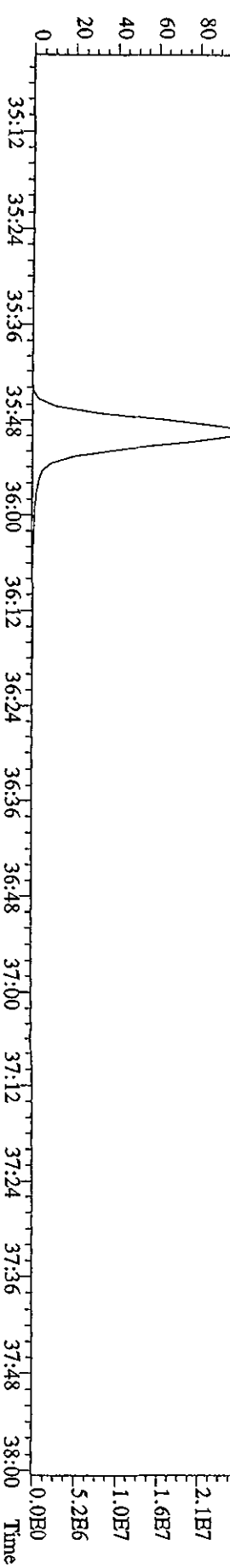
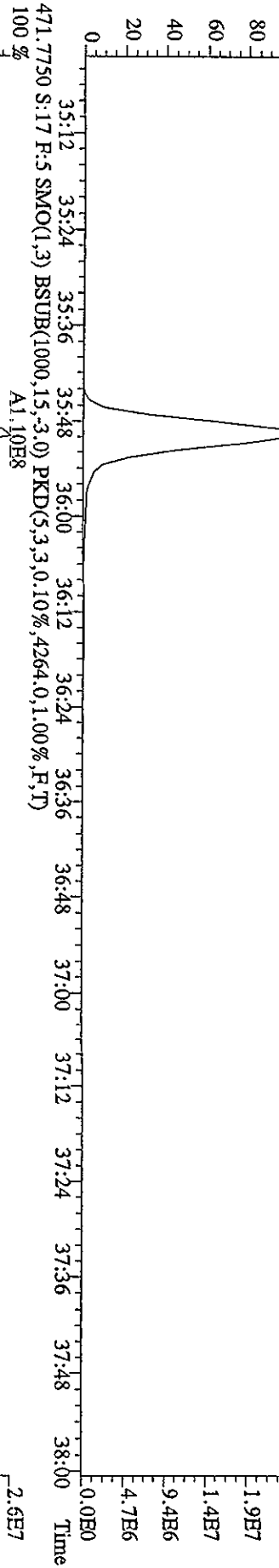
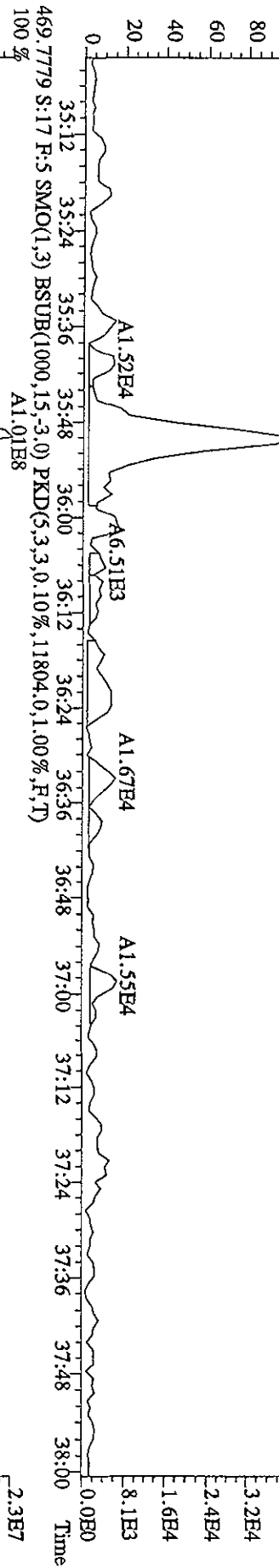
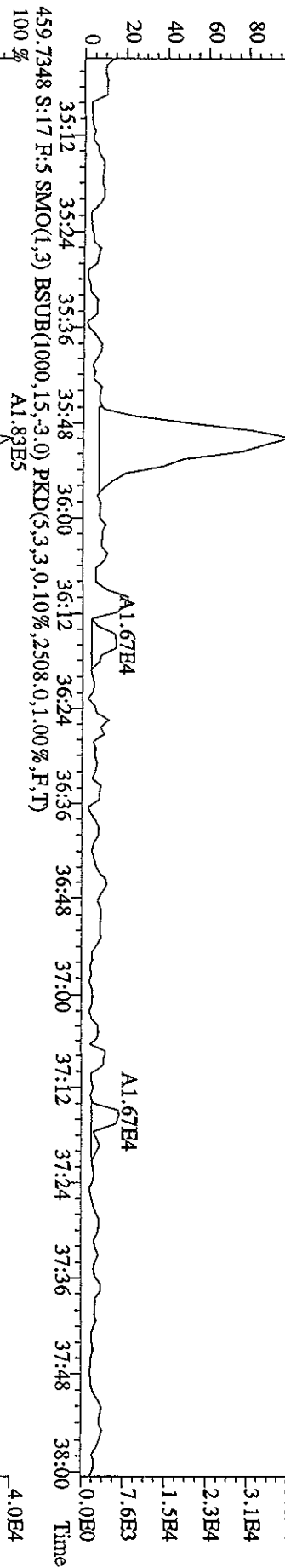




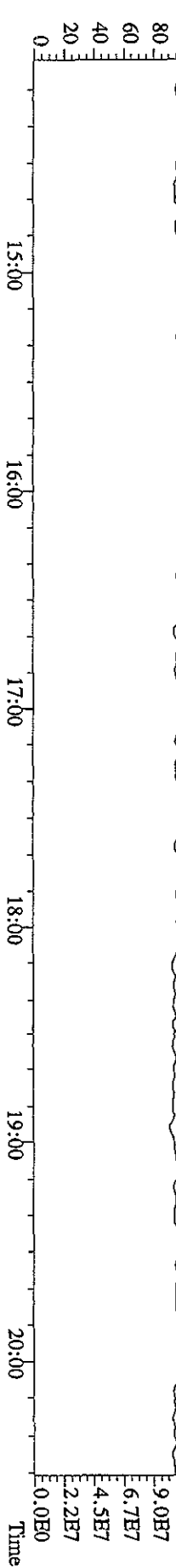
File: 27SEI01D5 #1-196 Acq: 27-SEP-2010 20:55:58 GC EI+ Voltage SIR 70SE  
 Sample#17 Text: L7EX6-1-AA : G0I230000-392B (491) Exp: DIOXINRES  
 441.7428 S:17 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3708.0,1.00%,F,T)



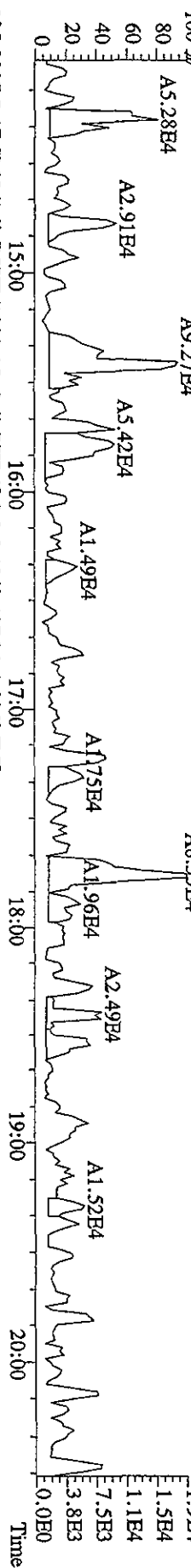
File:27SEI01D5 #1-196 Acq:27-SEP-2010 20:55:58 GC EI+ Voltage SIR 70SE  
 Sample#17 Text:L7EX6-1-AA :G01230000-392B (491) Exp:DIOXINRES  
 457.7377 S:17 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3336,0,1,100%,F,T)  
 100 % A1.69E5



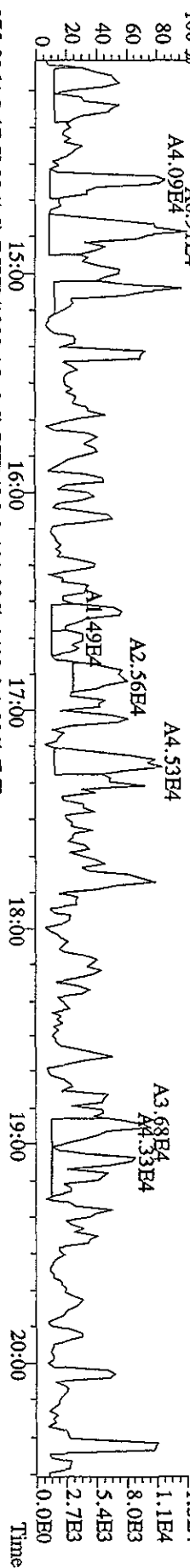
File: 27SE101D5 #1-382 Acq: 27-SEP-2010 20:55:58 GC EI+ Voltage SR 70SE  
 Sample#17 Text: L7EX6-1-AA :G01230000-392B (491) Exp: DIOXINRES  
 292.9825 S:17 SMO(1,3) PKD(5,3,5,100,00%,0,0,1,00%,F,T)  
 100% 14:22 15:02 15:43 16:33 17:13 17:41 18:02 18:37 19:25 19:53 20:21



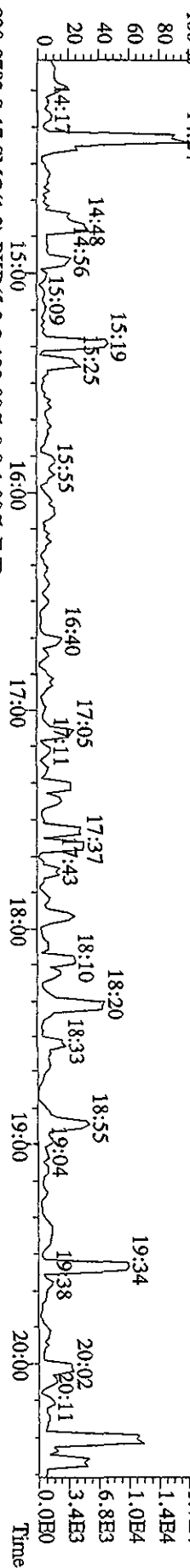
303.9016 S:17 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3416,0,1,00%,F,T)



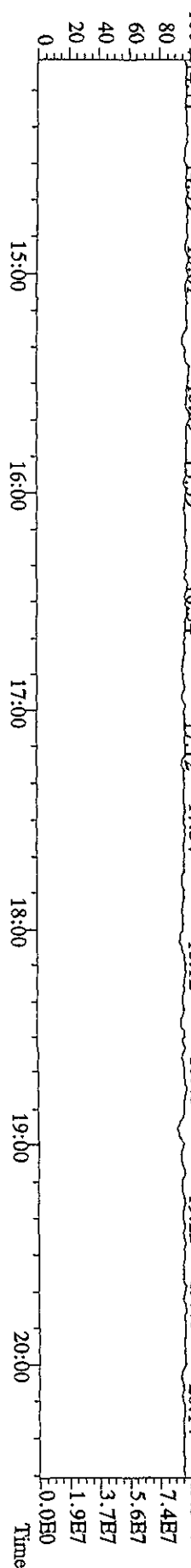
305.8987 S:17 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4076,0,1,00%,F,T)

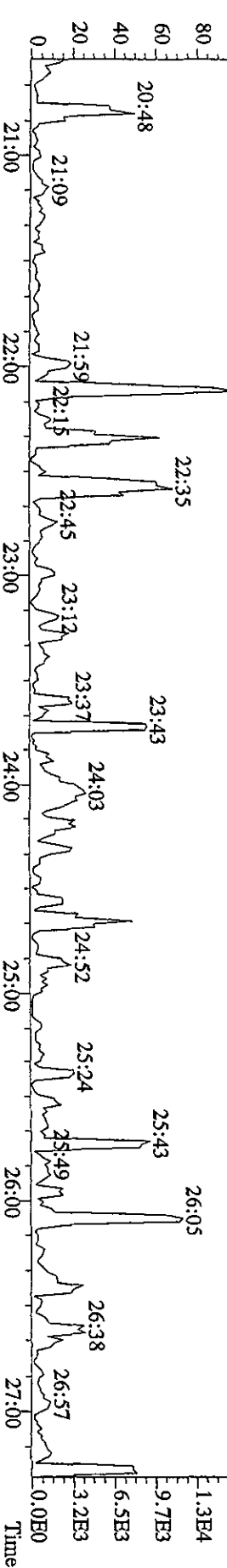
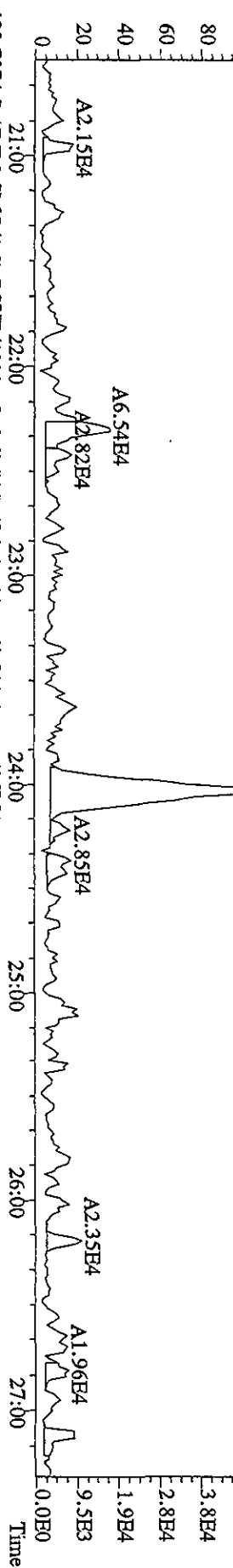
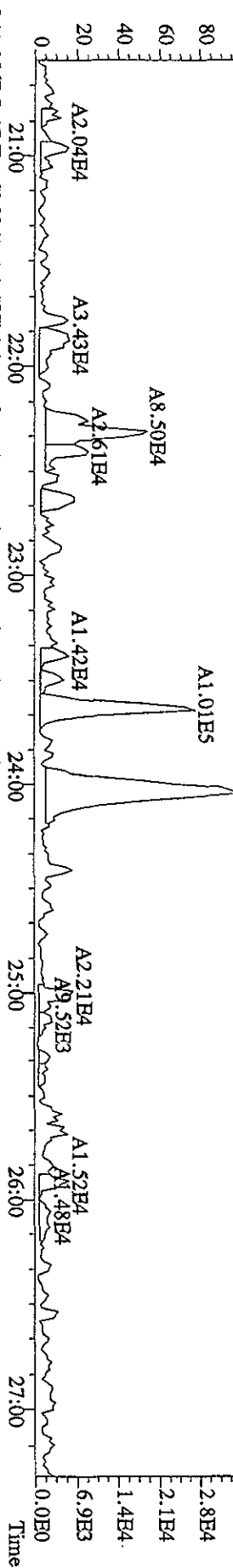
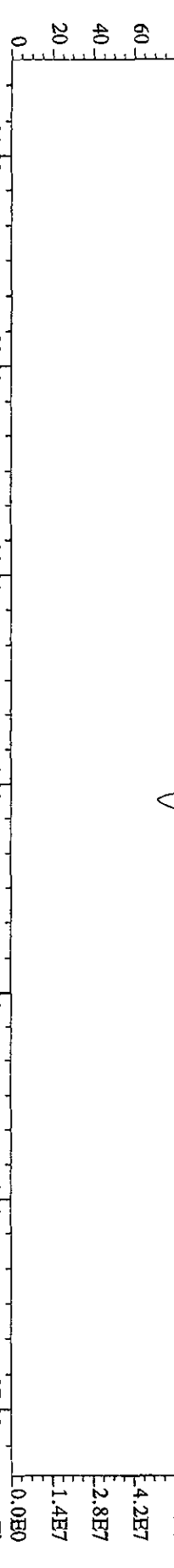


375.8364 S:17 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,1408,0,1,00%,F,T)



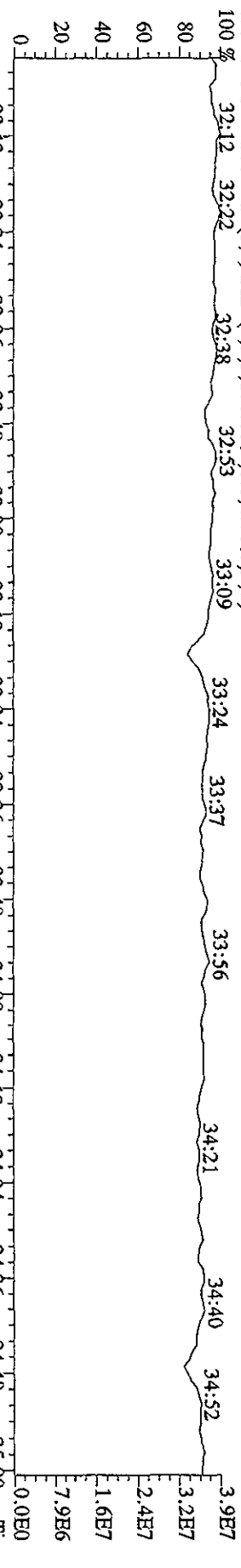
330.9792 S:17 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



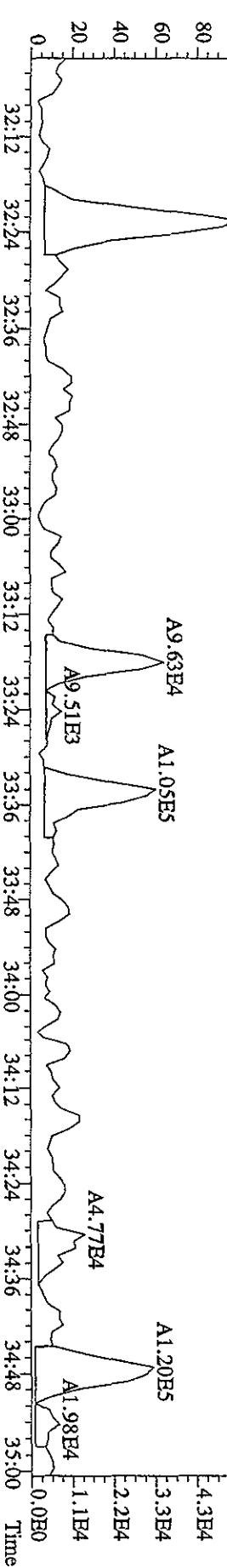




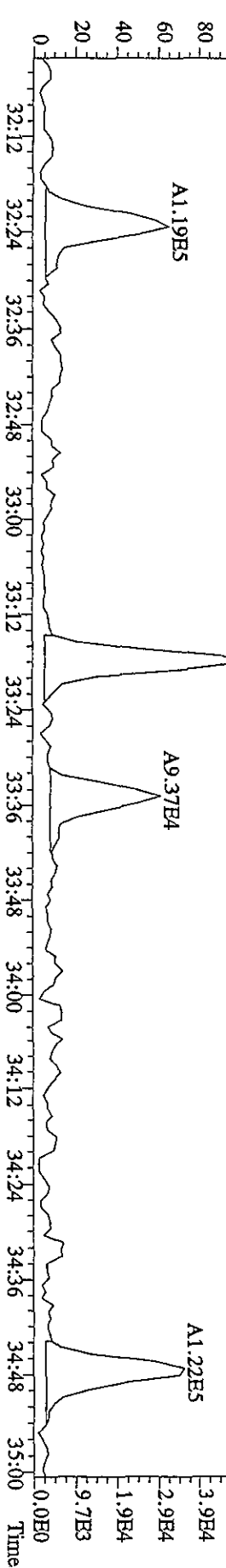
File:27SE101D5 #1-203 Acq:27-SEP-2010 20:55:58 GC EI+ Voltage STR 70SE  
 Sample#17 Text:L7EX6-1-AA :G01230000-392B (491) Exp:DIOXINRES  
 430.9728 S:17 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



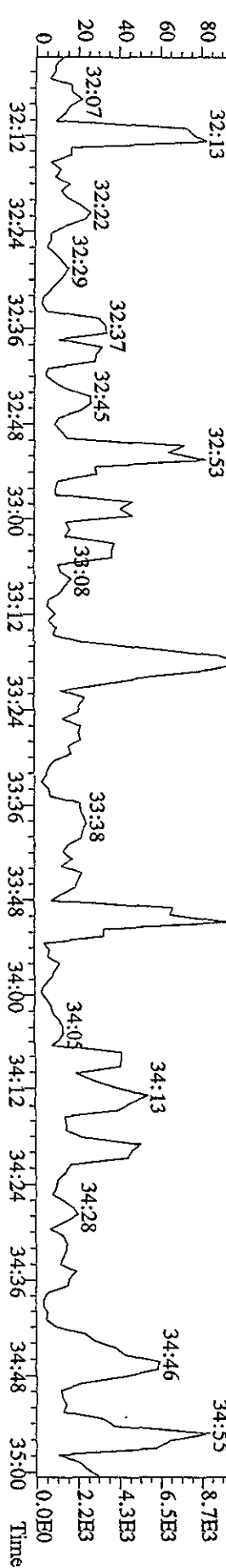
407.7818 S:17 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7352.0,1.00%,F,T)



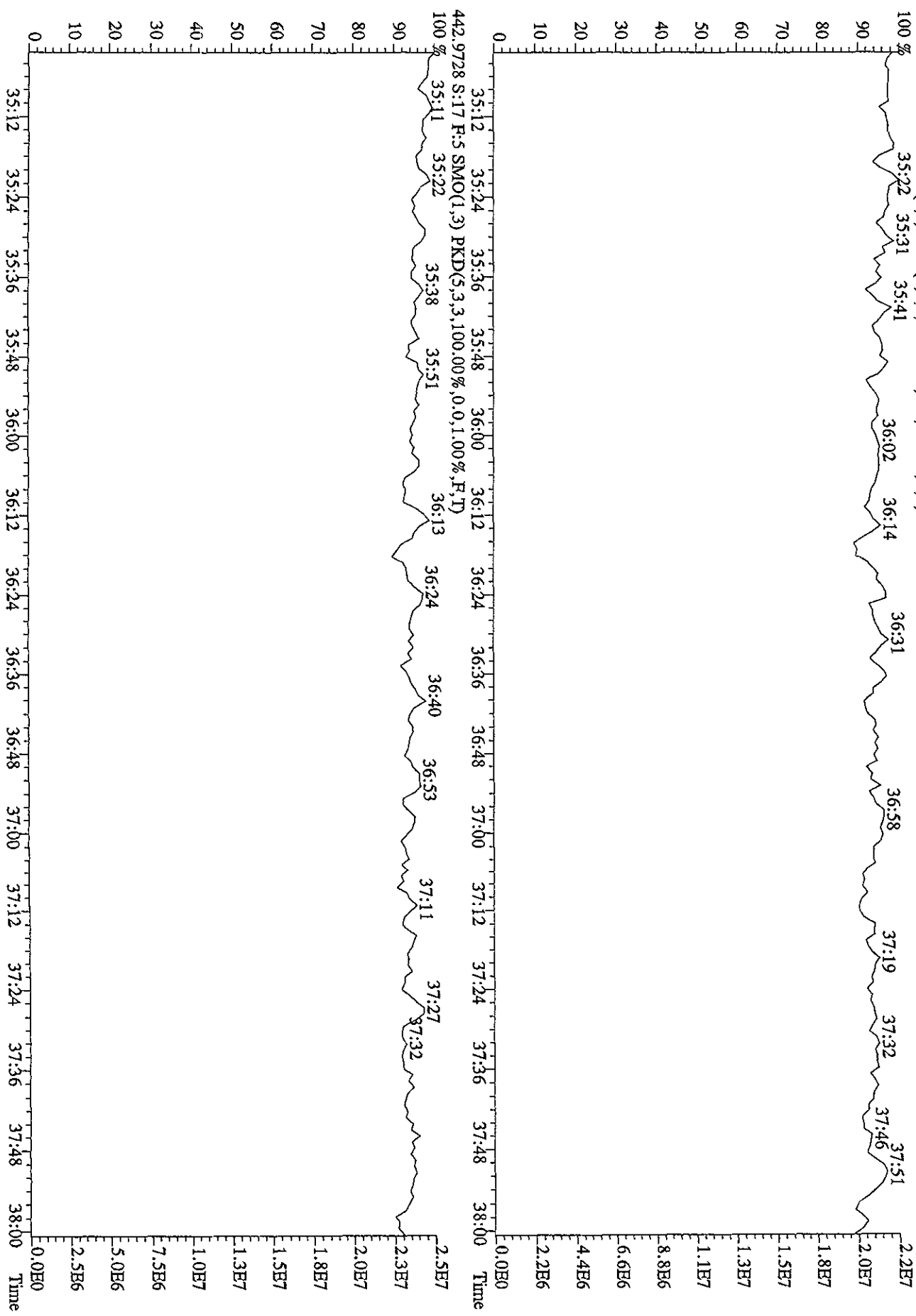
409.7789 S:17 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4528.0,1.00%,F,T)



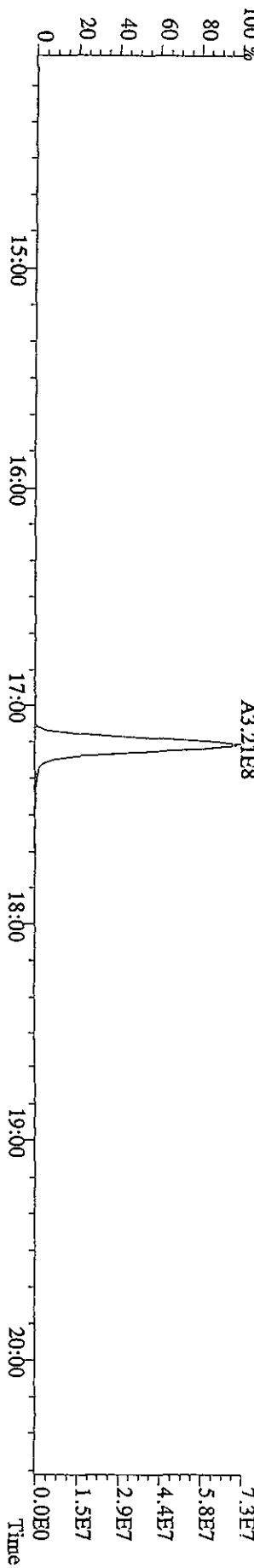
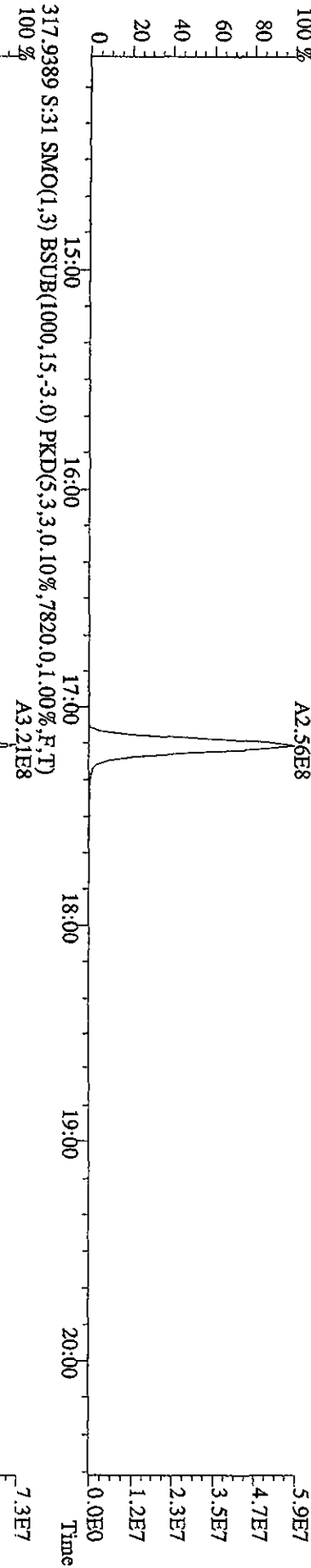
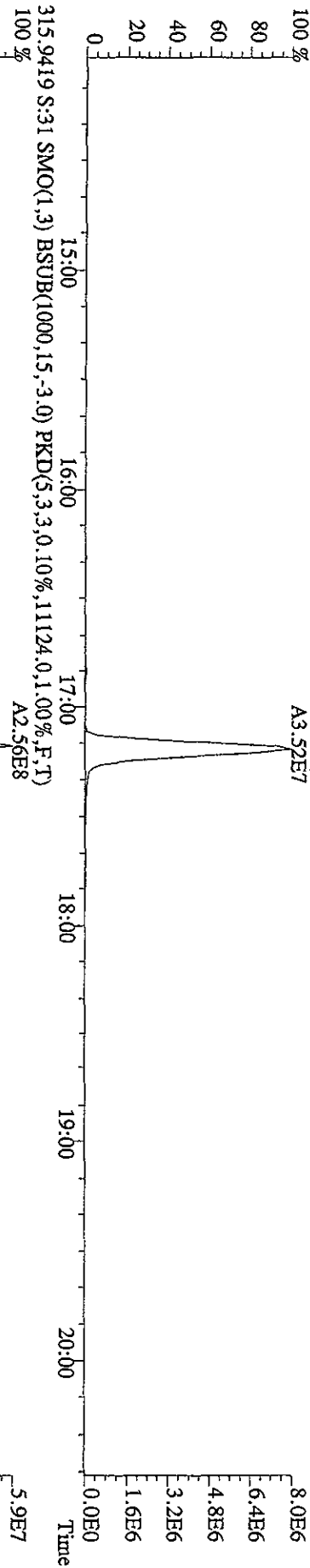
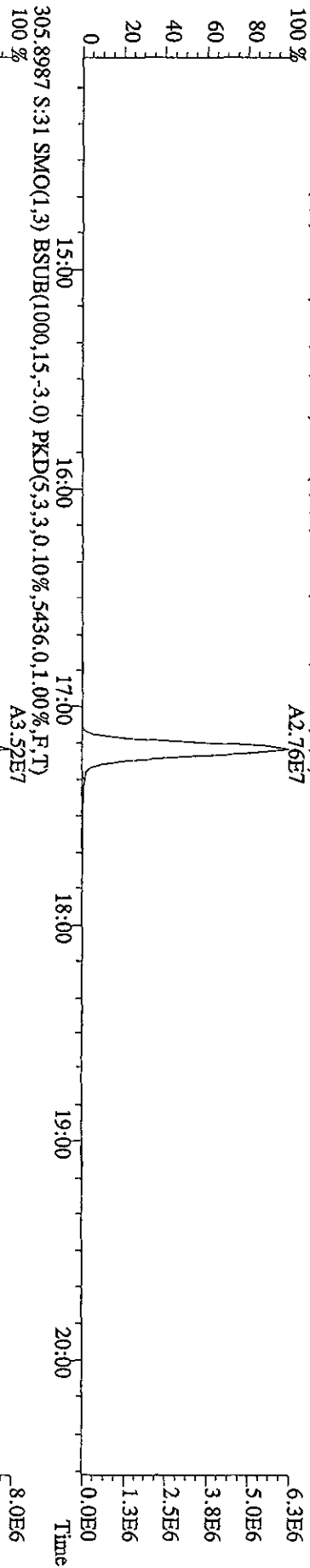
479.7165 S:17 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1460.0,1.00%,F,T)



File: 27SE101D5 #1-196 Acq: 27-SEP-2010 20:55:58 GC EI+ Voltage SIR 70SE  
 Sample#17 Text: L7BX6-1-AA :G01230000-392B (491) Exp: DIOXINRES  
 454.9728 S:17 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)

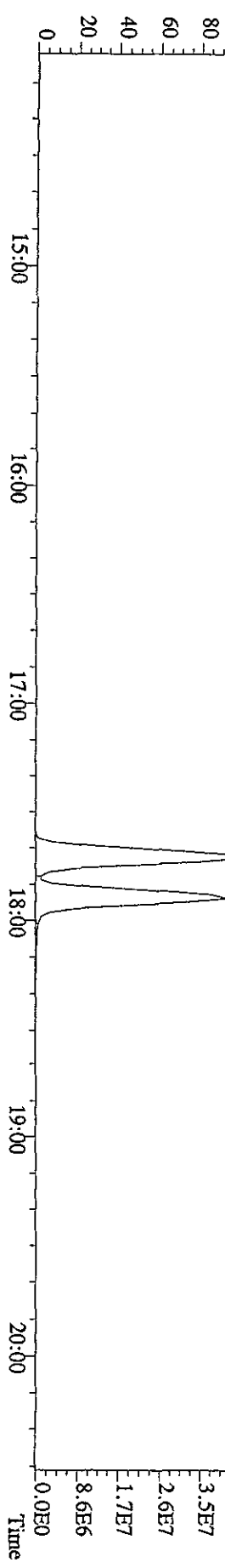
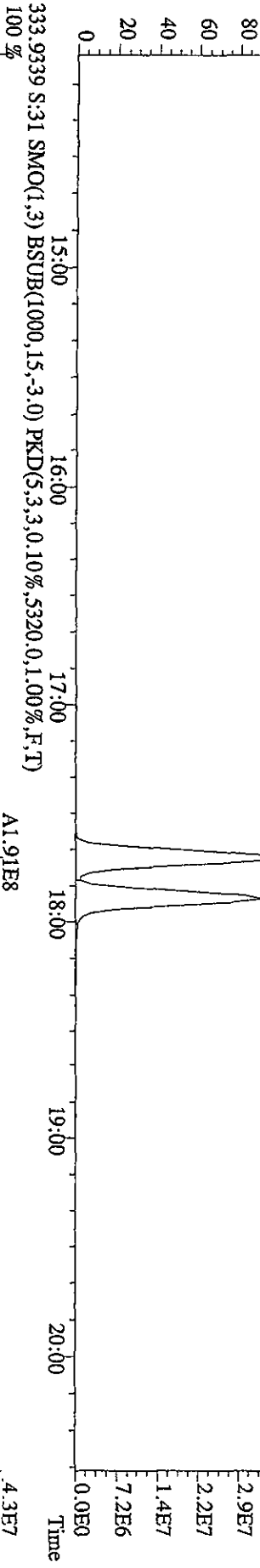
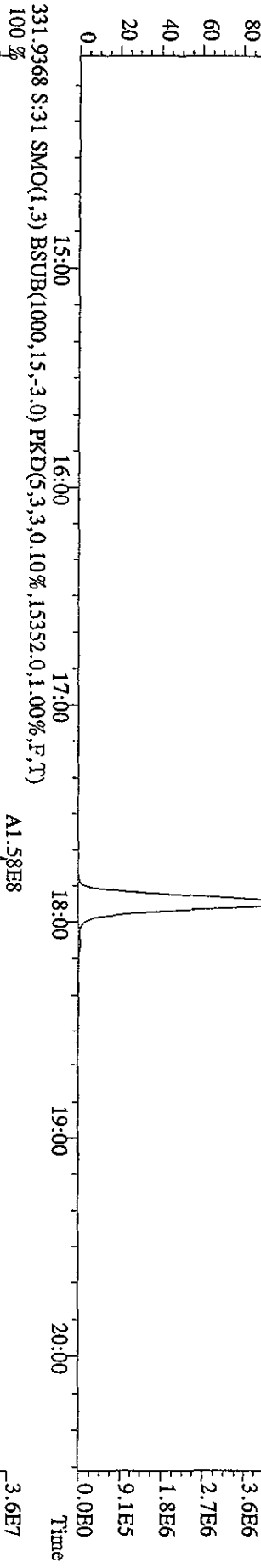
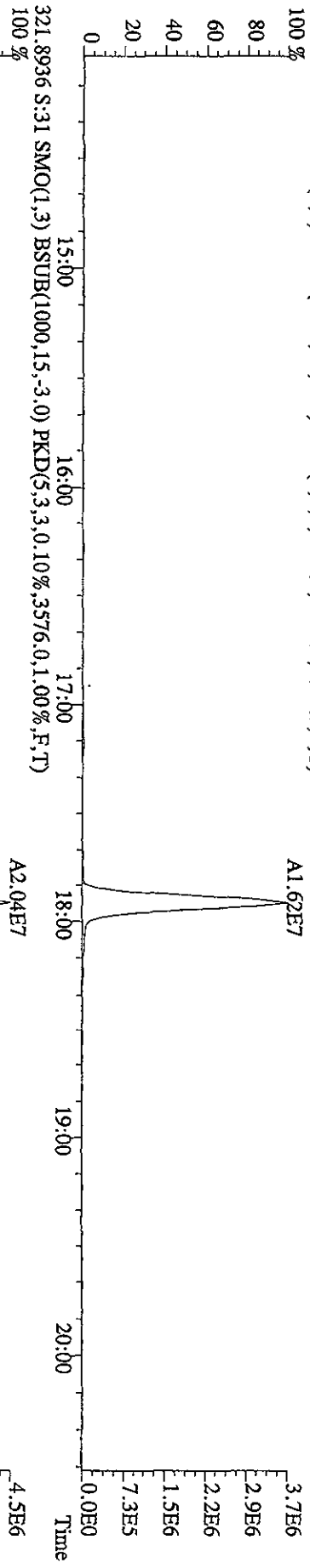


File:27SE101D5 #1-382 Acq:28-SEP-2010 06:57:21 GC EI+ Voltage STR 70SE  
 Sample#31 Text:ST0927B :CS3 10DXN426 Exp:DIOXINRES  
 303.9016 S:31 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2952.0,1.00%,F,T)  
 100 % A2.76E7

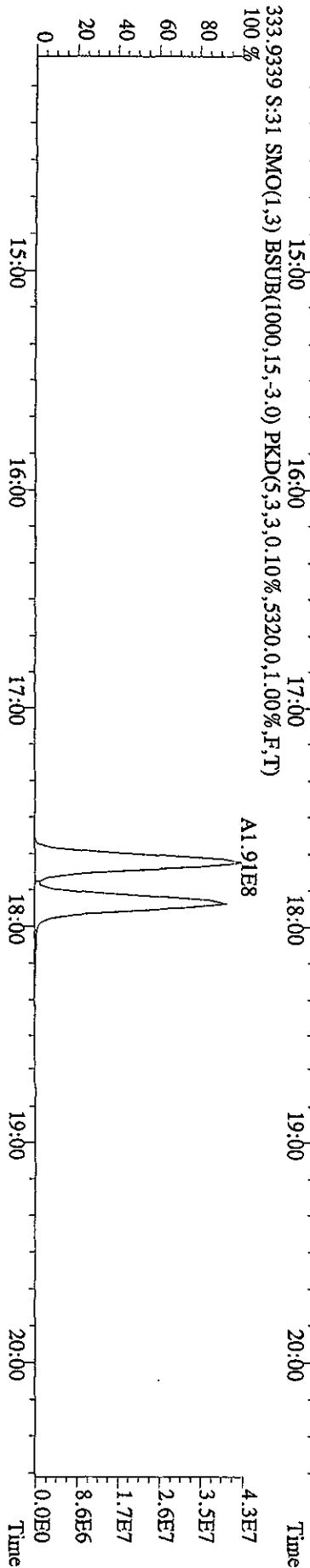
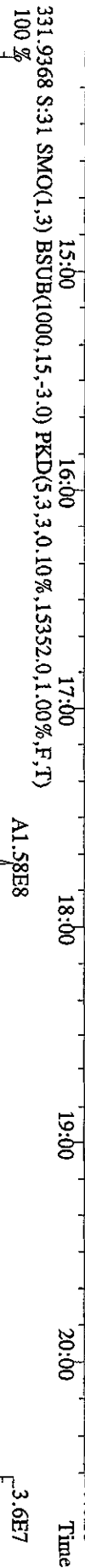
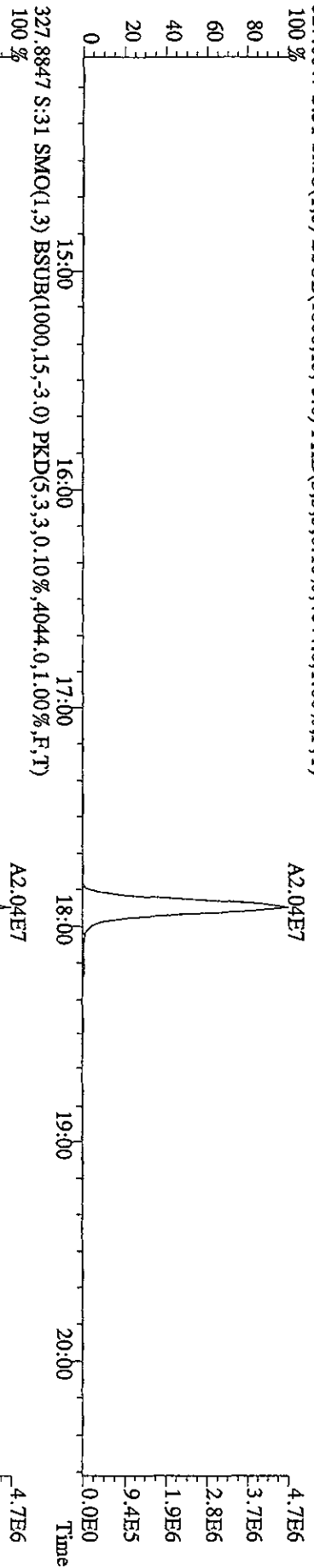




File: 27SE101D5 #1-382 Acq: 28-SEP-2010 06:57:21 GC EI+ Voltage SIR 70SE  
 Sample#31 Text: ST0927B : CSS 10DXN426 Exp: DIOXINRES  
 319.8965 S:31 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4396,0,1,00%,F,T)



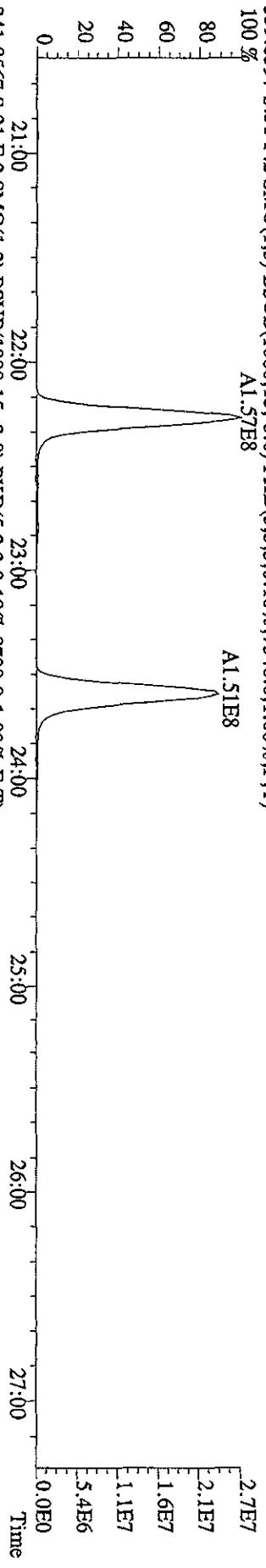
File:27SE101D5 #1-382 Acq:28-SEP-2010 06:57:21 GC EI + Voltage SIR 70SE  
Sample#31 Text:ST0927B :CS3 10DXN426 Exp:DIOXINRES  
327.8847 S:31 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4044,0,1.00%,F,T)  
100 %



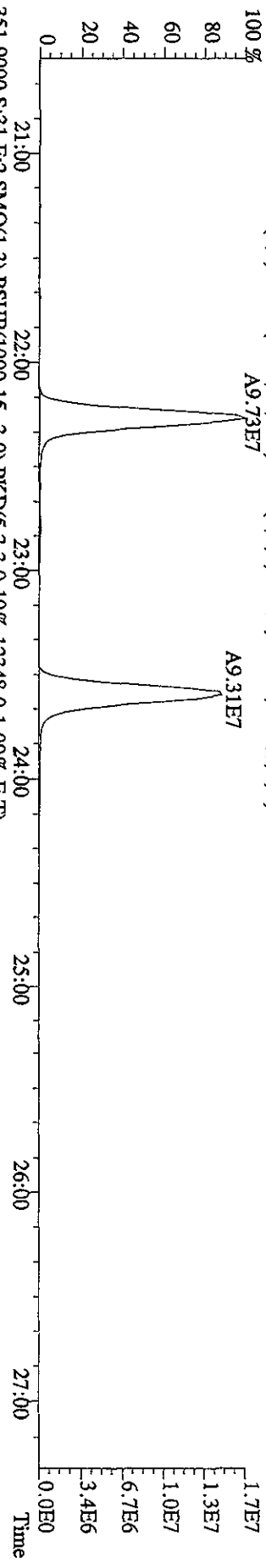
File:27SEI01ID5 #1-422 Acq:28-SEP-2010 06:57:21 GC EI+ Voltage SIR 70SE

Sample#31 Text:ST0927B :CS3 10DXN426 Exp:DIOXINRES

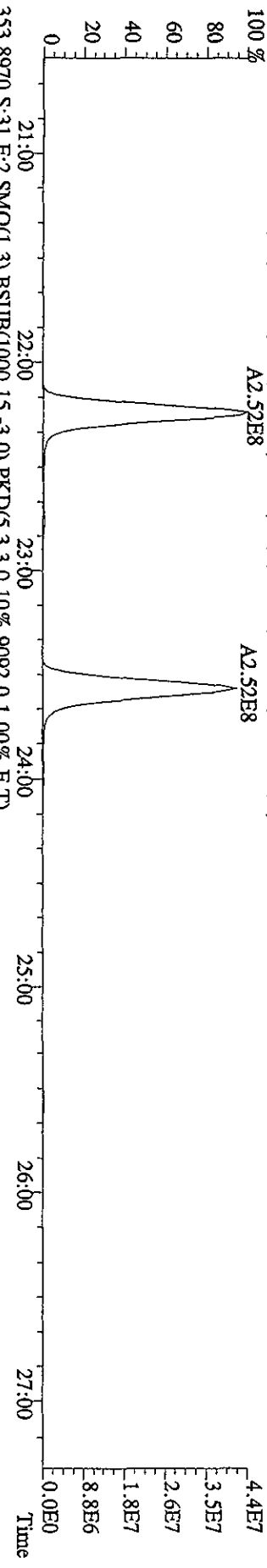
339.8597 S:31 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7548.0,1.00%,F,T) 100 %



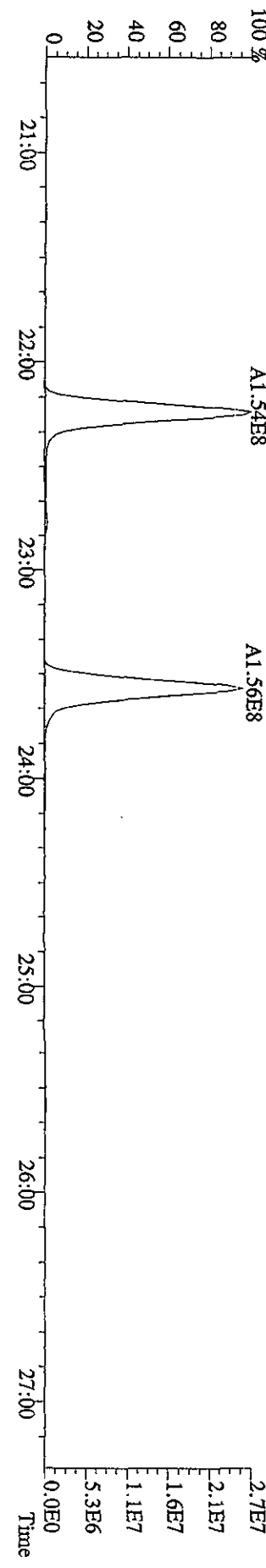
341.8567 S:31 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8708.0,1.00%,F,T) 100 %



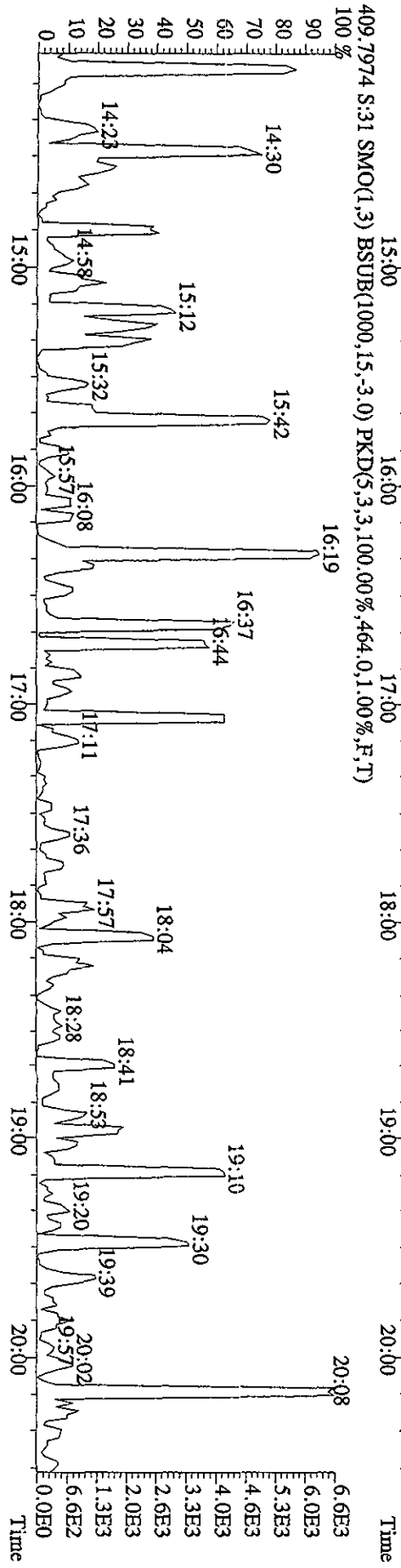
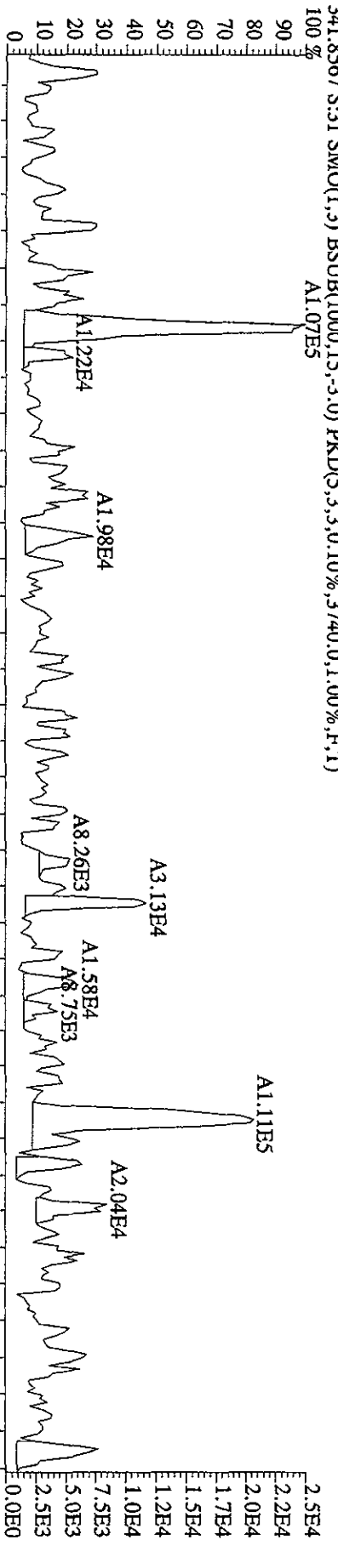
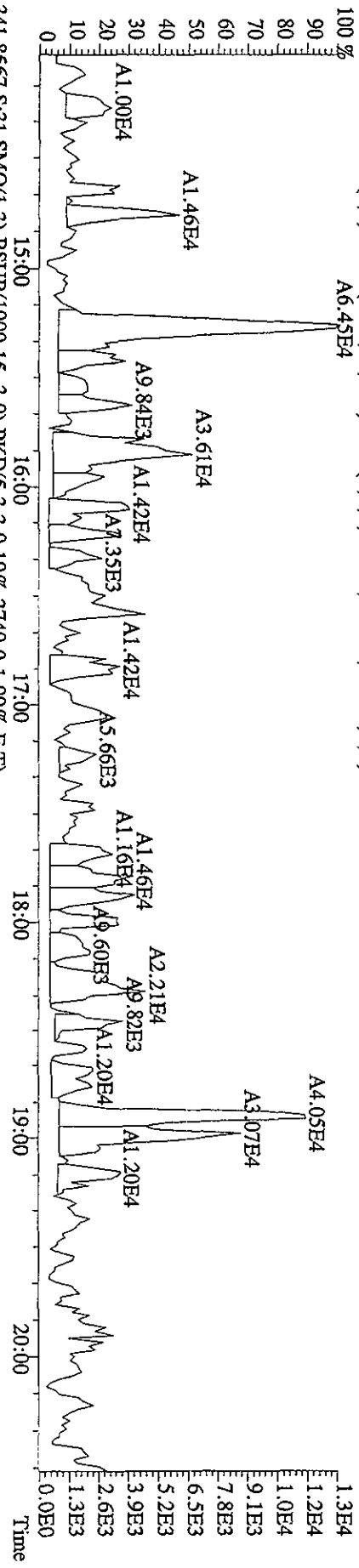
351.9000 S:31 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12348.0,1.00%,F,T) 100 %



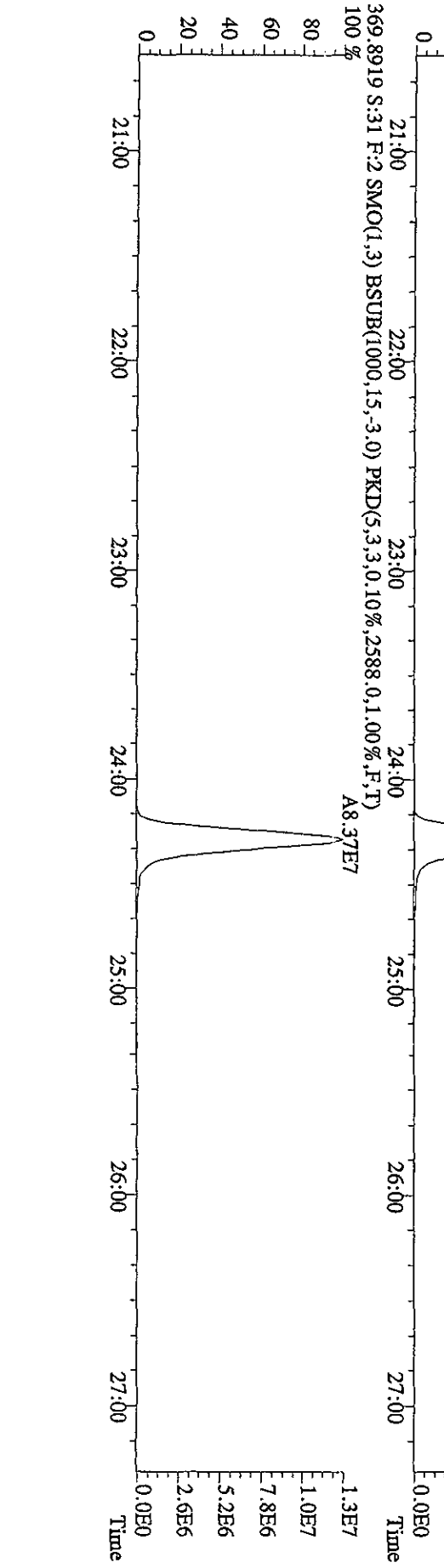
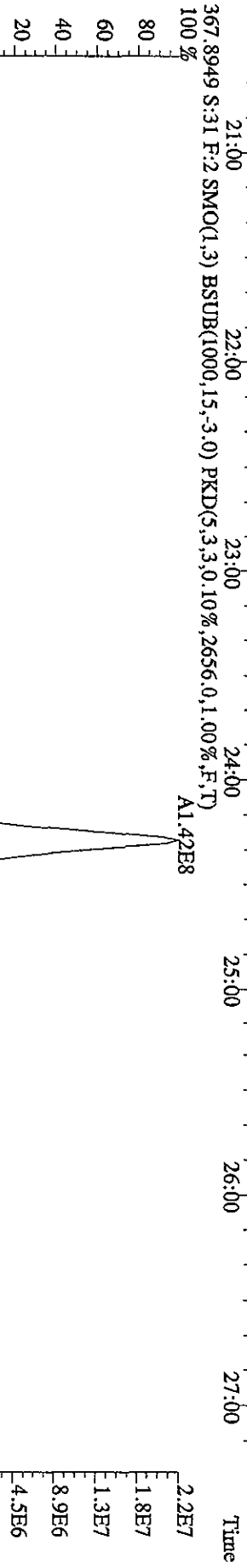
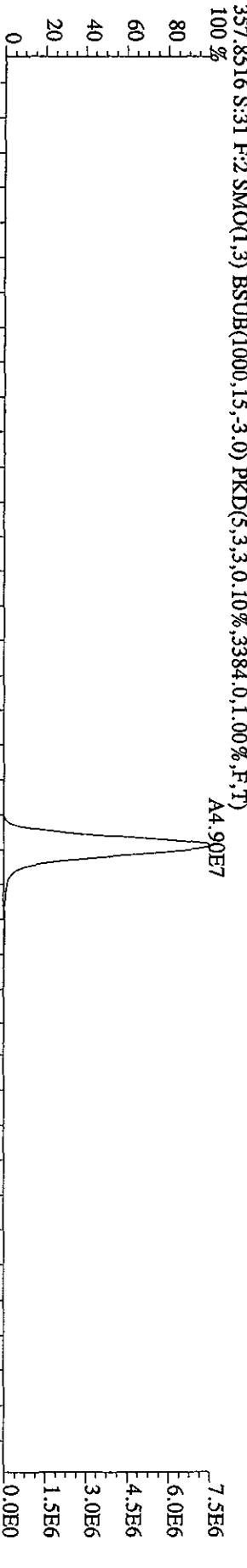
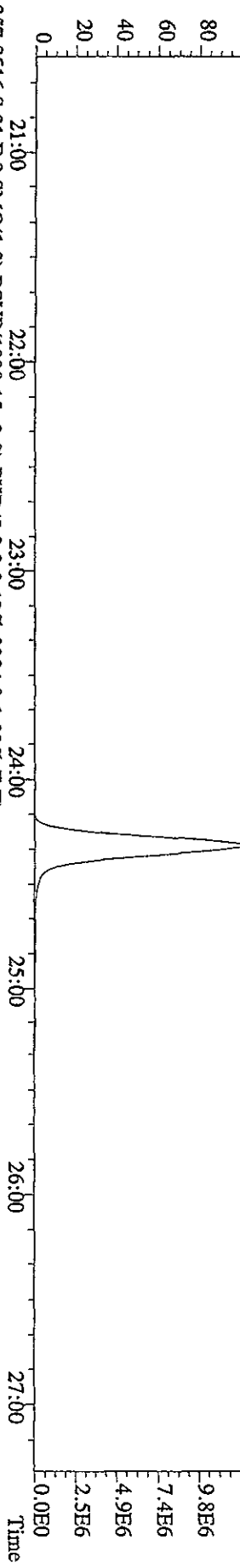
353.8970 S:31 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9092.0,1.00%,F,T) 100 %



File: 27SE101D5 #1-382 Acq: 28-SEP-2010 06:57:21 GC EI+ Voltage SIR 70SE  
 Sample#31 Text: ST0927B : CSS 10DXN426 Exp: DIOXINRES  
 339.8597 S:31 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0,10%,1612,0,1,00%,F,T)



File: 27SE101D5 #1-422 Acq: 28-SEP-2010 06:57:21 GC EI+ Voltage SIR 70SE  
 Sample#31 Text: ST0927B :CS3 10DXN426 Exp: DIOXINRES  
 355.8546 S:31 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3.0,10%,4948.0,1.00%,F,T)  
 100%

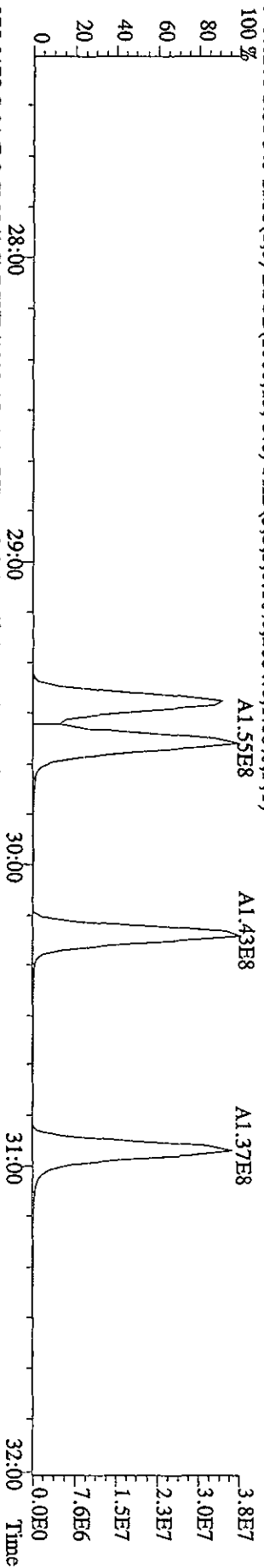


File:27SE101D5 #1-301 Acq:28-SEP-2010 06:57:21 GC EI+ Voltage SIR 70SE

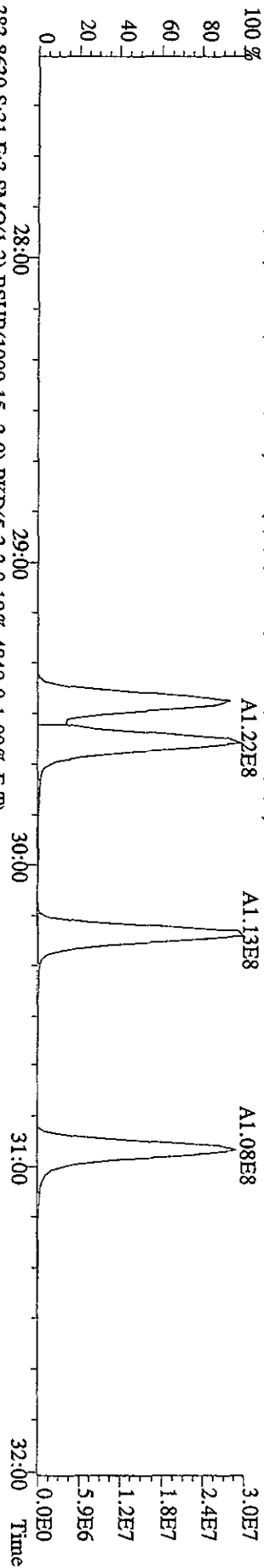
Sample#31 Text:ST0927B :CS3 10DXN426

Exp:DIOXINRES

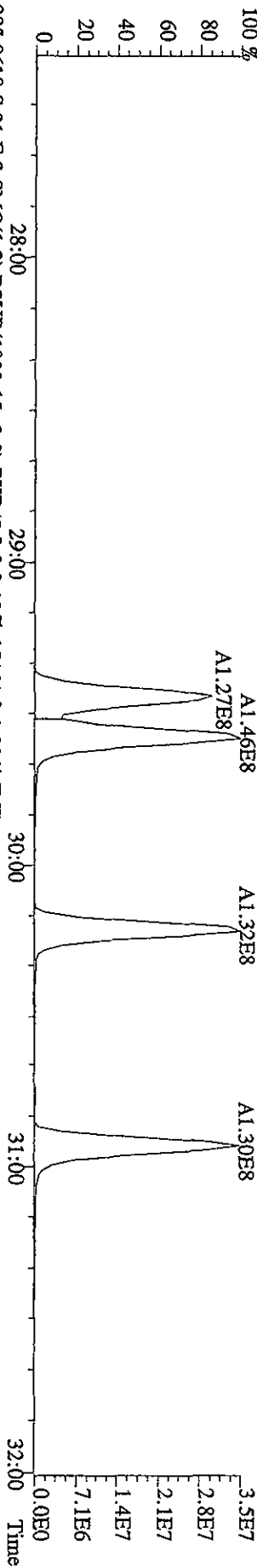
373.8208 S:31 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2684.0,1.00%,F,T)



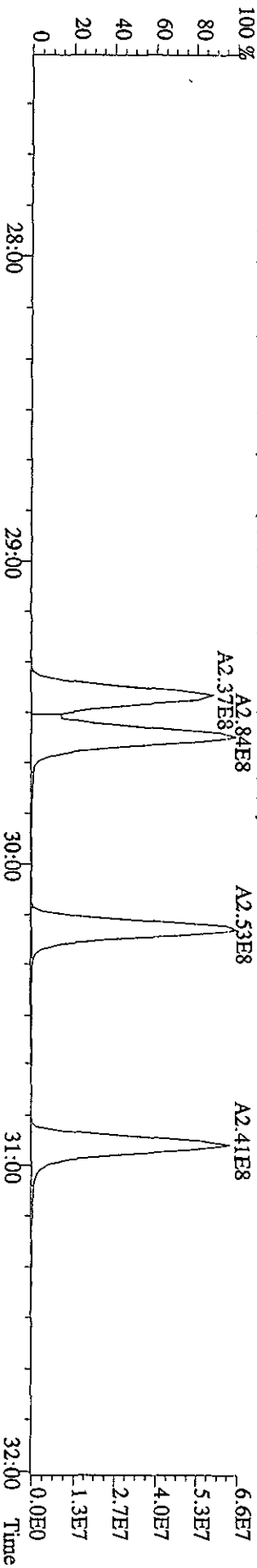
375.8178 S:31 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,12448.0,1.00%,F,T)



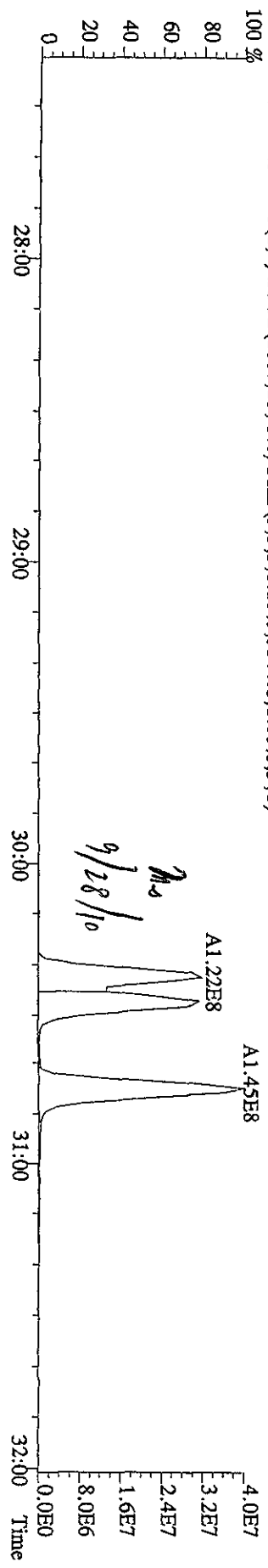
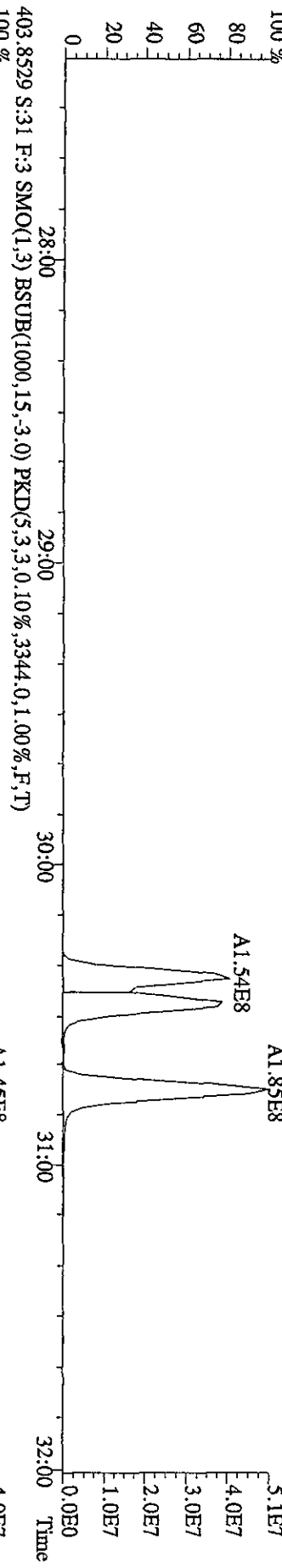
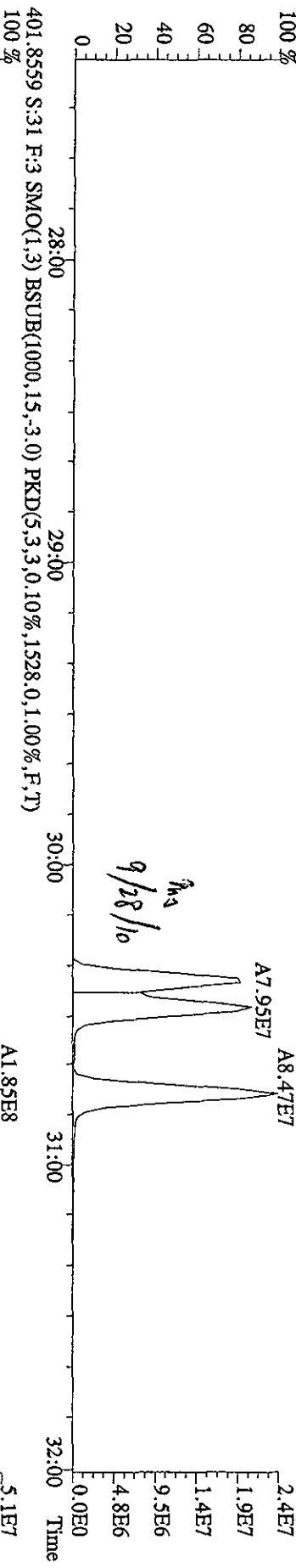
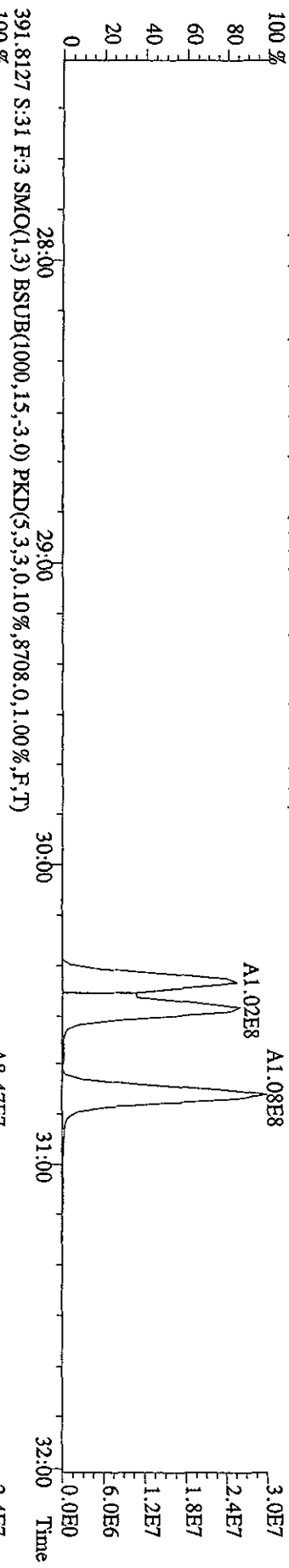
383.8639 S:31 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4840.0,1.00%,F,T)



385.8610 S:31 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,15464.0,1.00%,F,T)



File: 27SE101D5 #1-301 Acq: 28-SEP-2010 06:57:21 GC EI+ Voltage SIR 70SE  
 Sample#31 Text: ST0927B :CS3 10DXN426 Exp: DIOXINRES  
 389.8157 S:31 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3428,0,1,100%,F,T)  
 100%

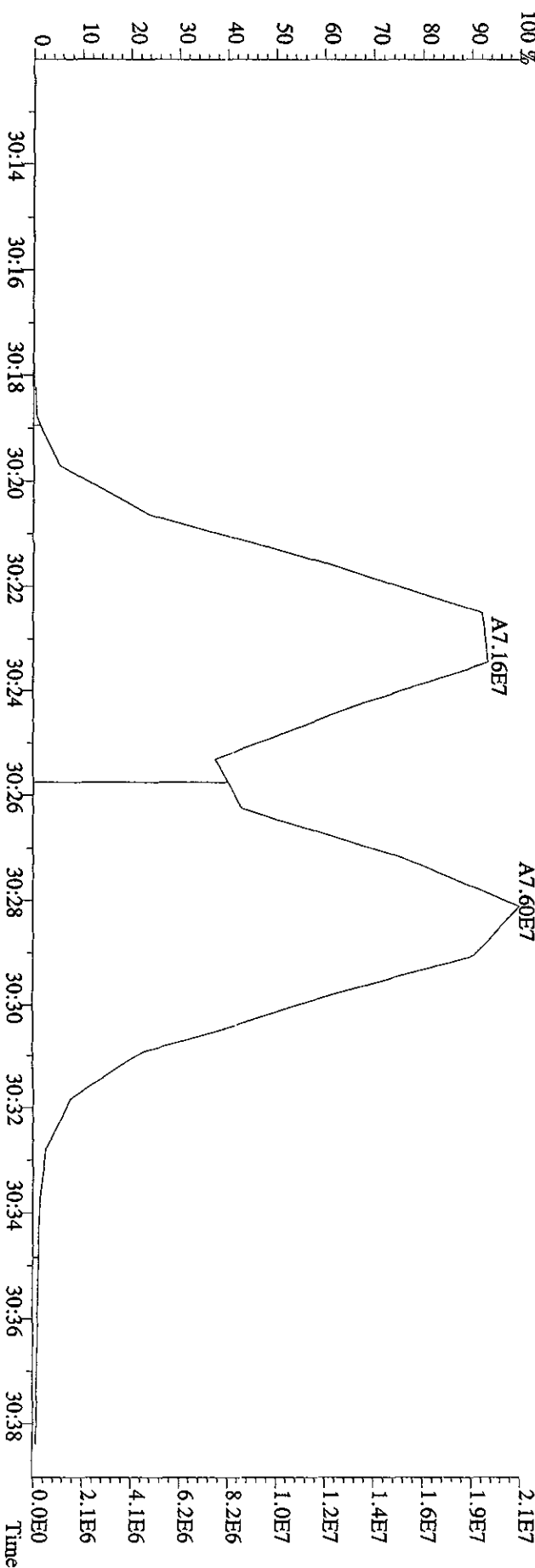
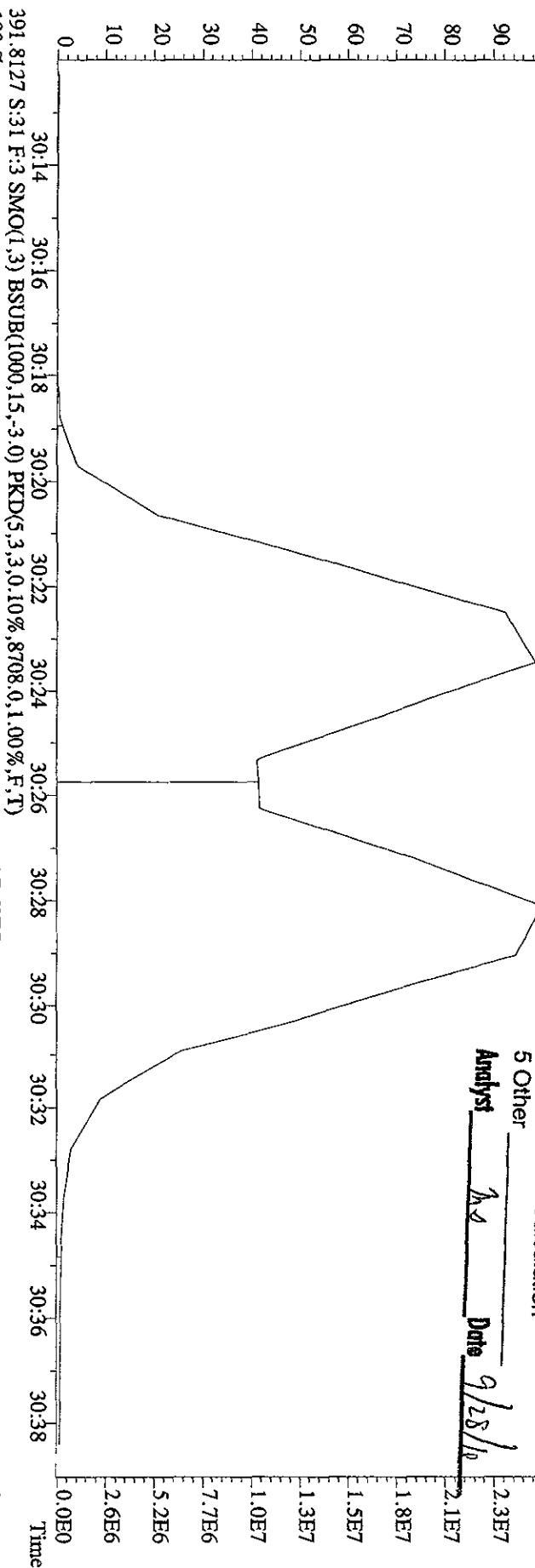


**MANUAL EDIT CODES**

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

Analyst As Date 9/28/10

File: 27SE101D5 #1-301 Acq: 28-SEP-2010 06:57:21 GC EI+ Voltage SIR 70SE  
 Sample# 31 Text: ST0927B .CS3 10DXN426 Exp: DIOXINRES  
 389.8157 S: 31 F: 3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8708,0,1,00%,F,T)



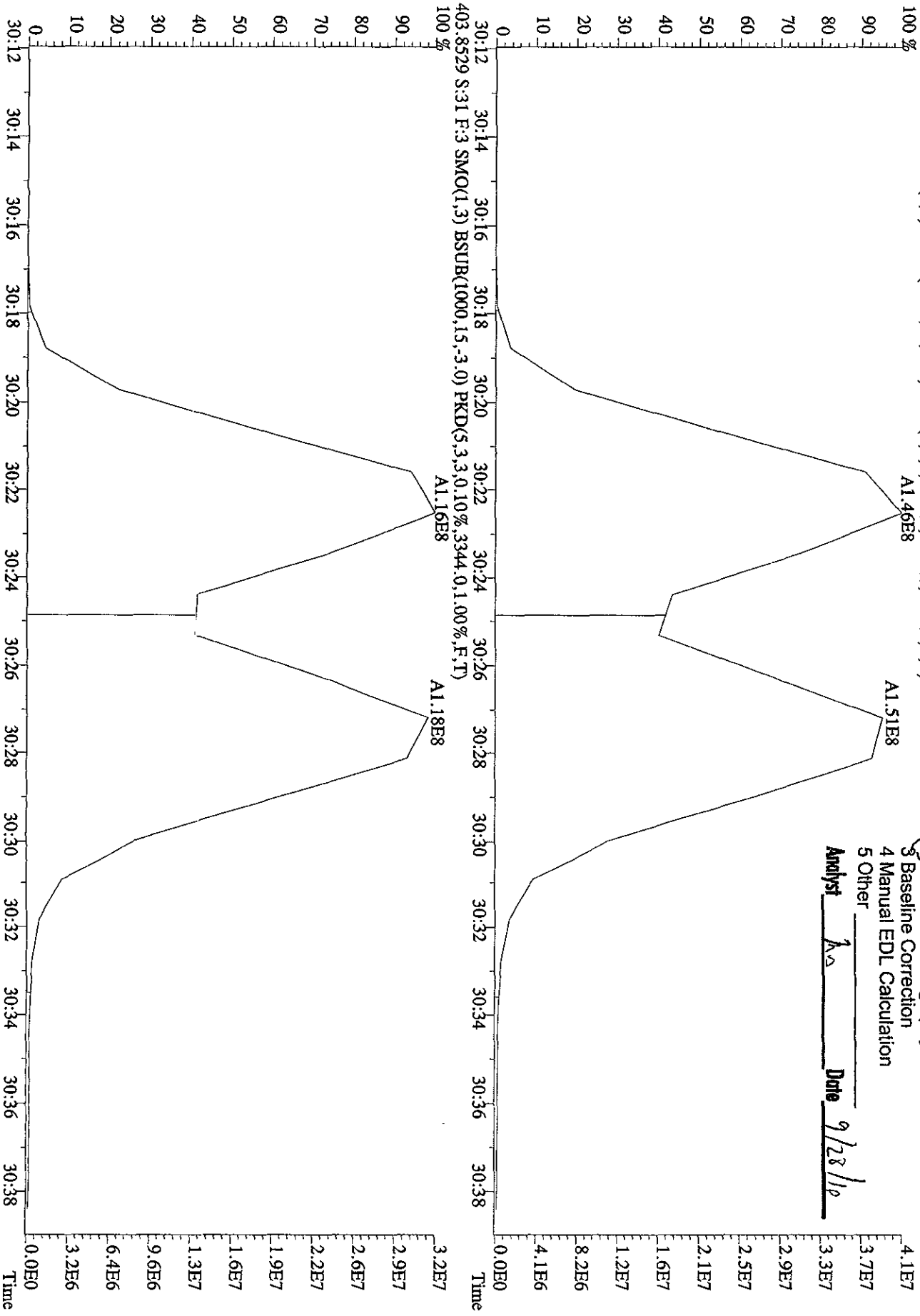


**MANUAL EDIT CODES**

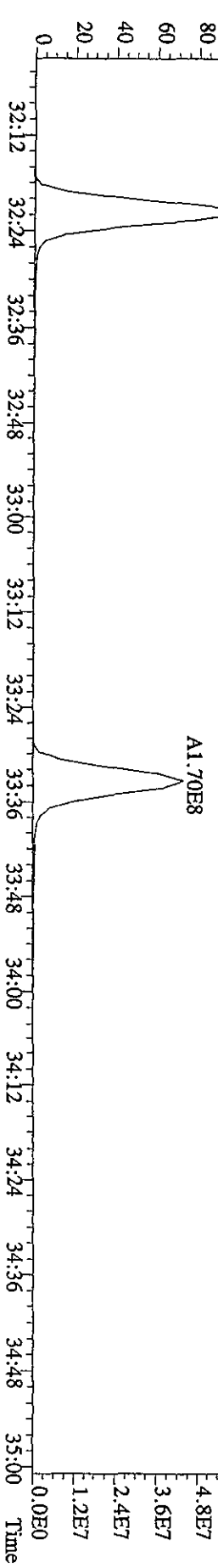
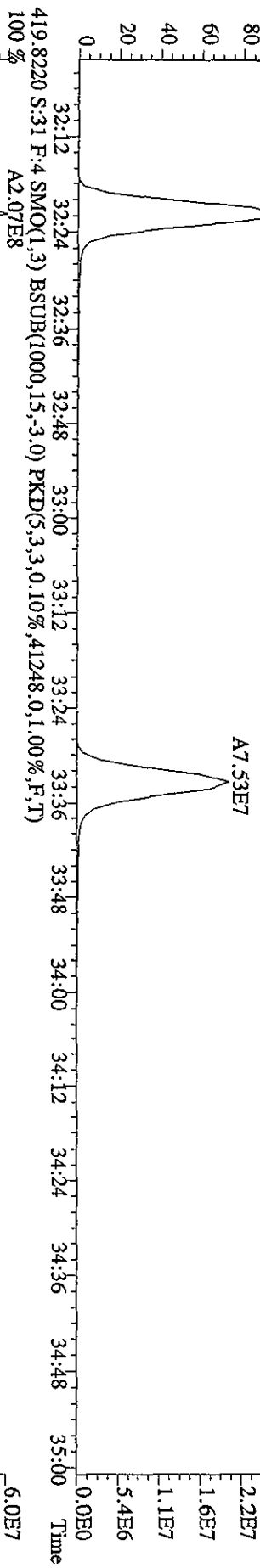
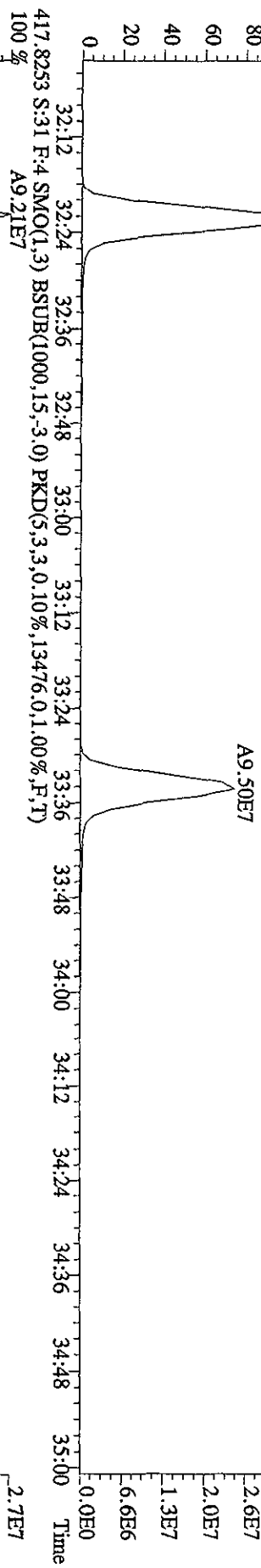
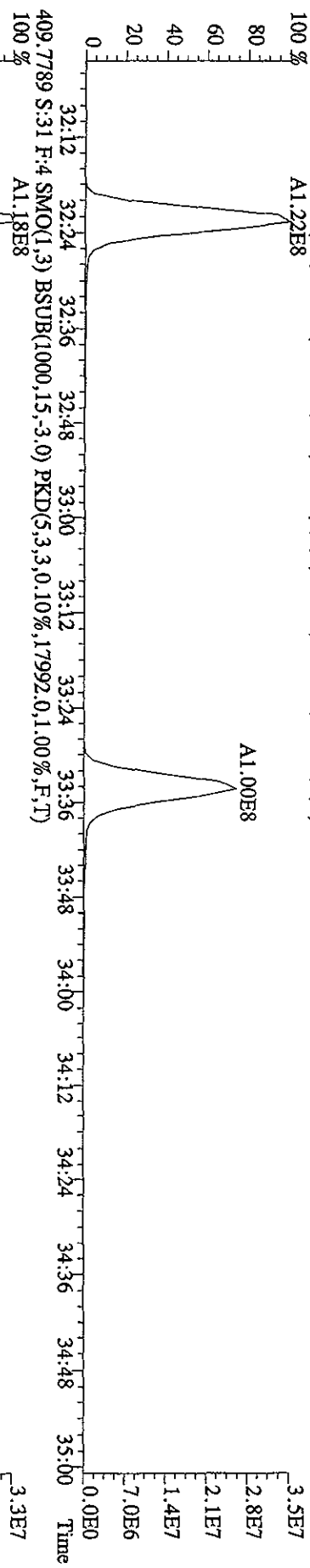
- 1 Peak not found
- 2 Poor Chromatography
- 3 Baseline Correction
- 4 Manual EDL Calculation
- 5 Other

Analyst As Date 9/28/10

File: 27SE101D5 #1-301 Acq: 28-SEP-2010 06:57:21 GC EI+ Voltage SIR 70SE  
 Sample# 31 Text: ST0927B : CS3 10DXN426 Exp: DIOXINRES  
 401.8559 S: 31 F: 3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1528,0,1,00%,F,T)  
 100 %



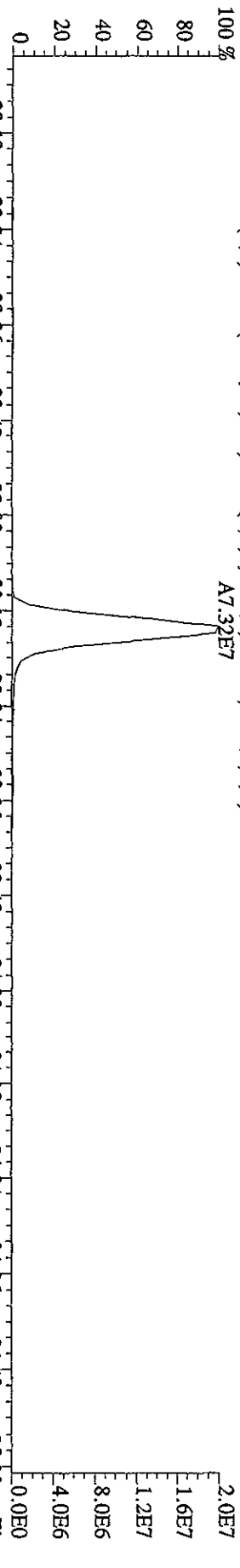
File: 27SE101D5 #1-203 Acq: 28-SEP-2010 06:57:21 GC EI+ Voltage SIR 70SE  
 Sample#31 Text: ST0927B :CS3 10DXN426 Exp: DIOXINRES  
 407.7818 S:31 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21488,0.1,00%,F,T)  
 100%



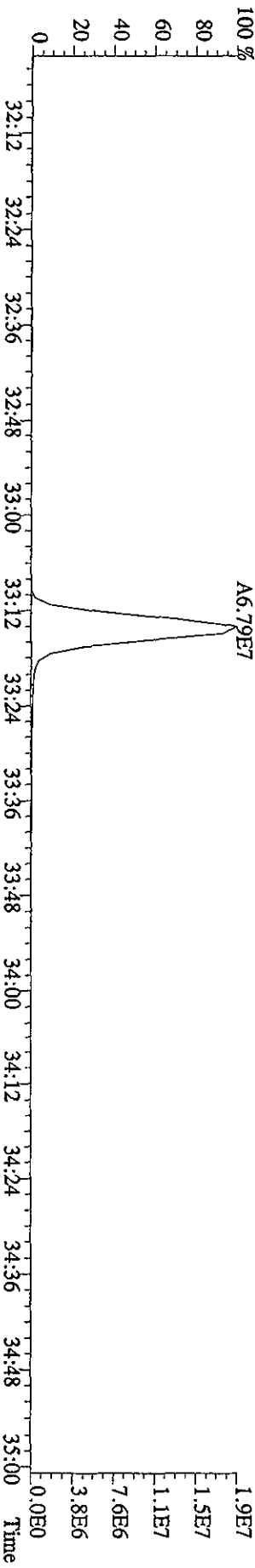
File:27SE101D5 #1-203 Acq:28-SEP-2010 06:57:21 GC EI+ Voltage SIR 70SE

Sample#31 Text:ST0927B :CS3 10DXN426 Exp:DIOXINRES

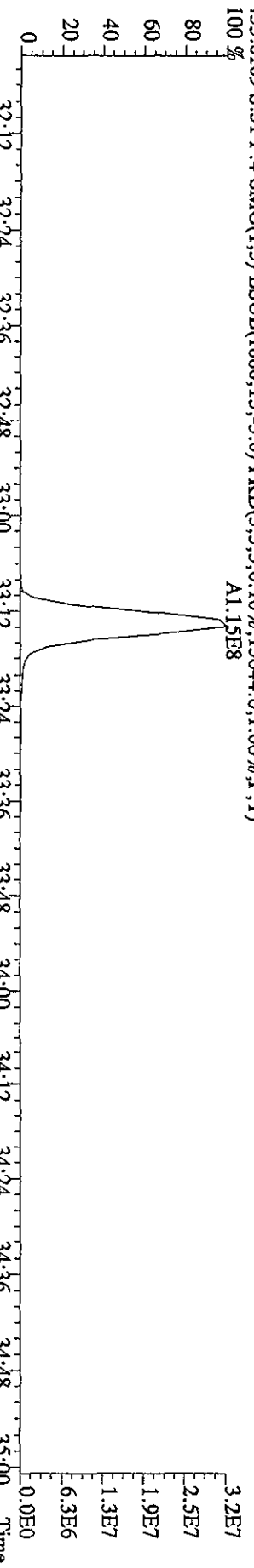
423.7766 S:31 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6972.0,1.00%,F,T) 100%



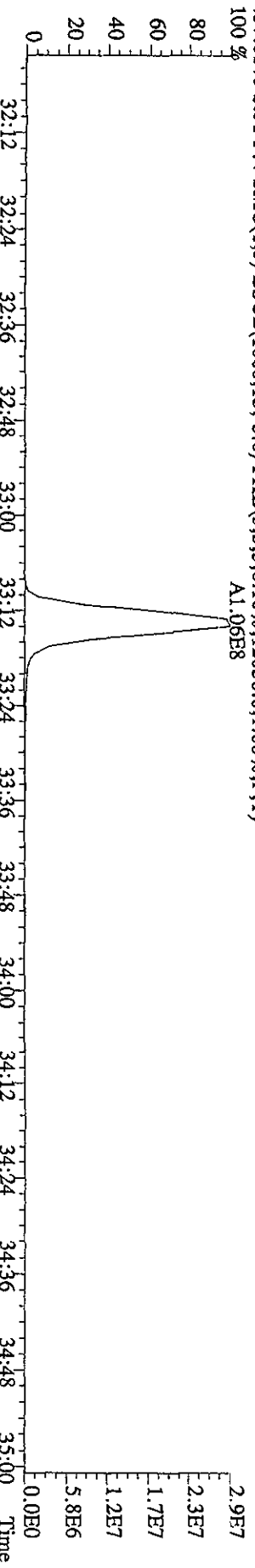
425.7737 S:31 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,12672.0,1.00%,F,T) 100%



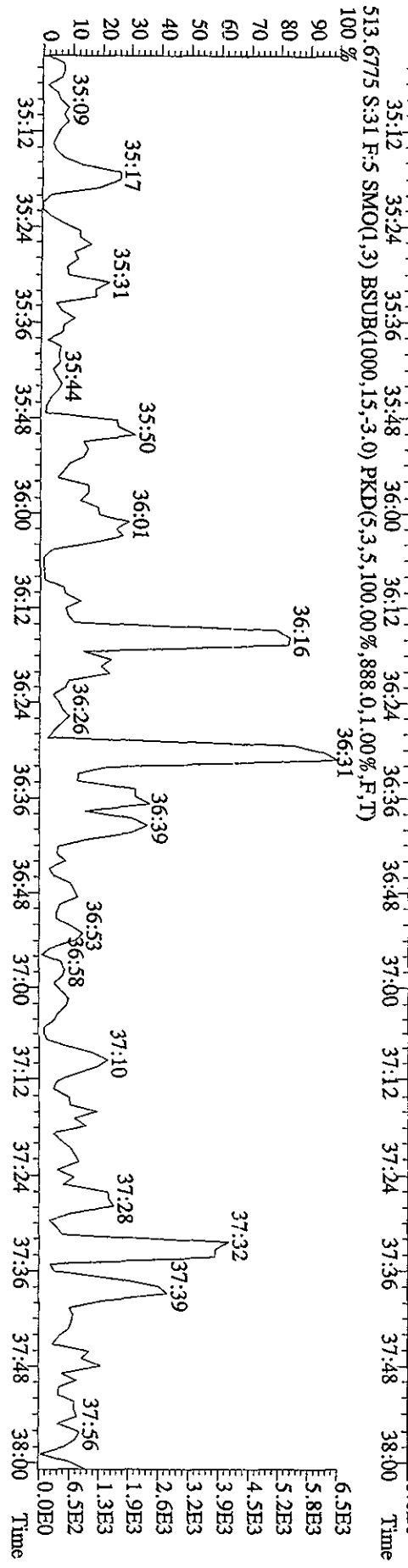
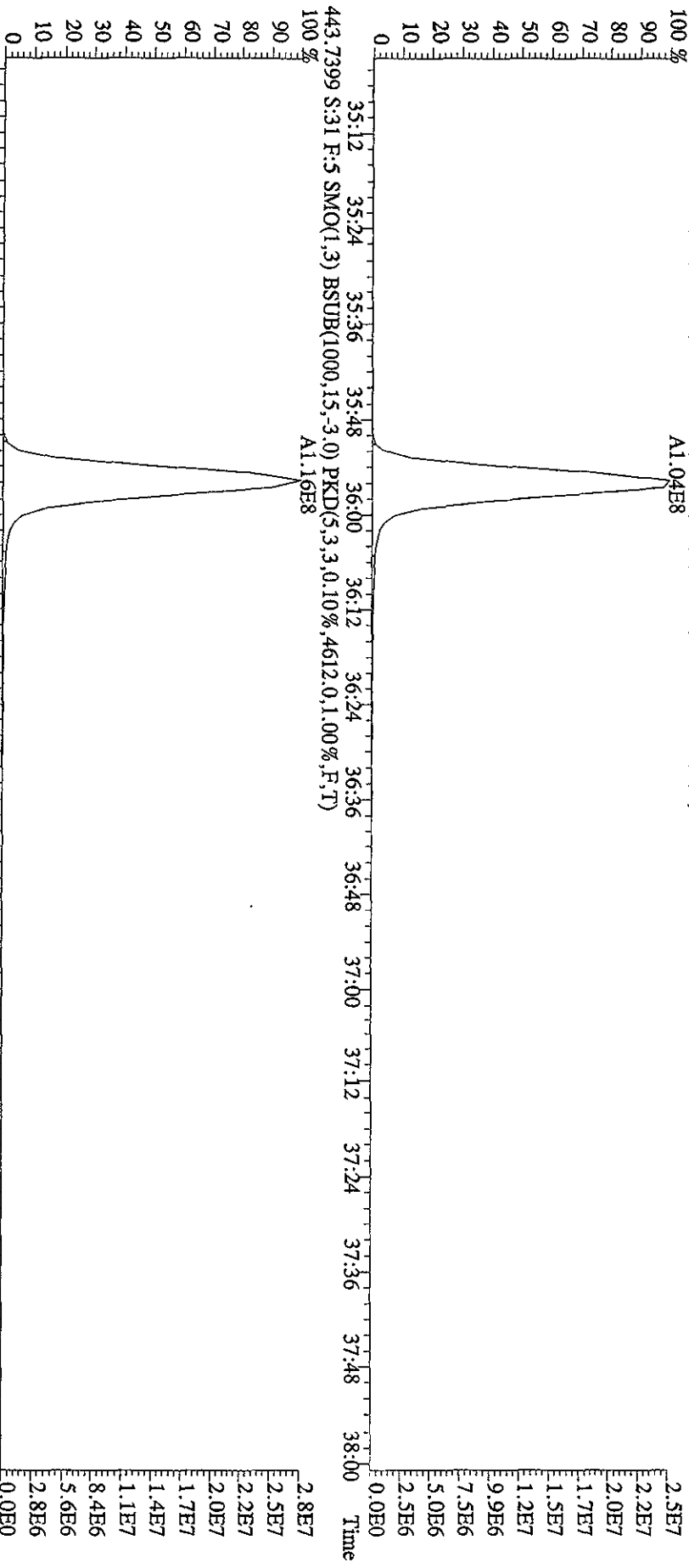
435.8169 S:31 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,15644.0,1.00%,F,T) 100%



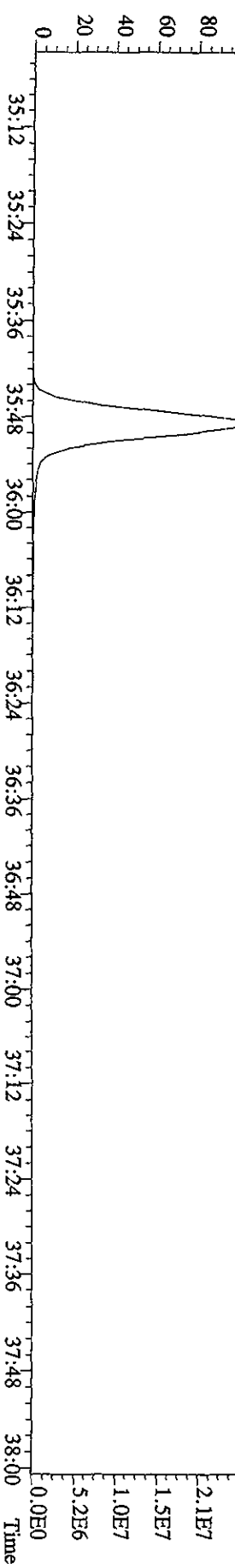
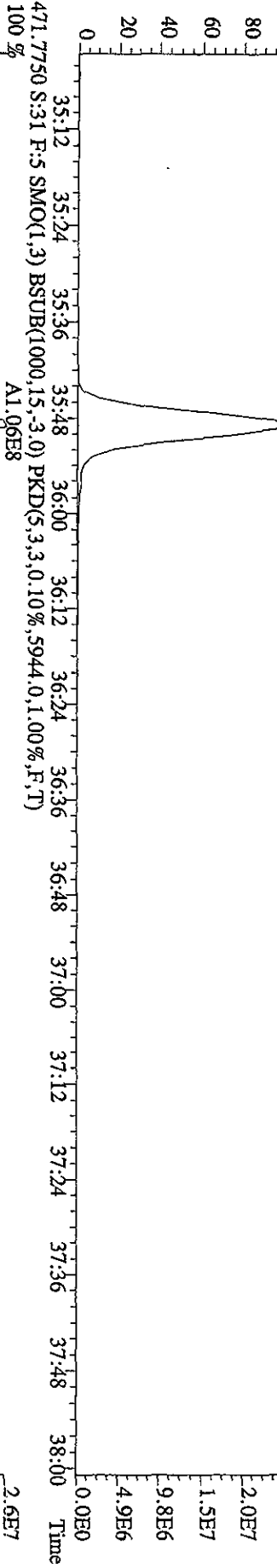
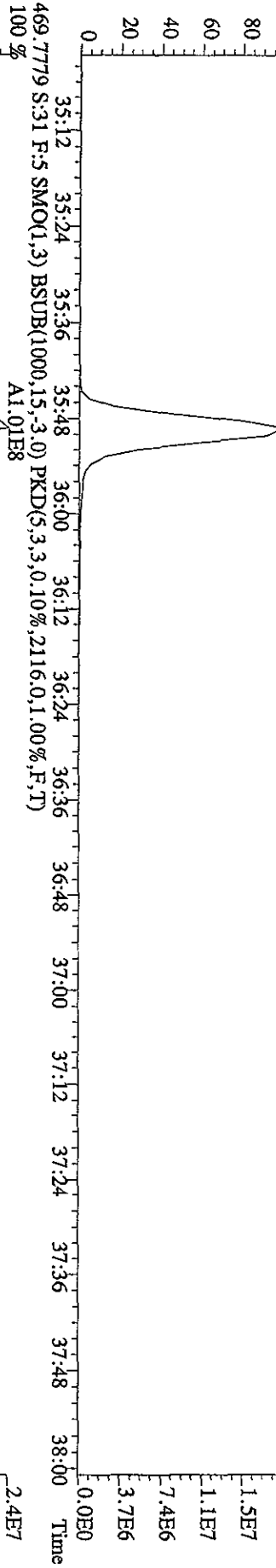
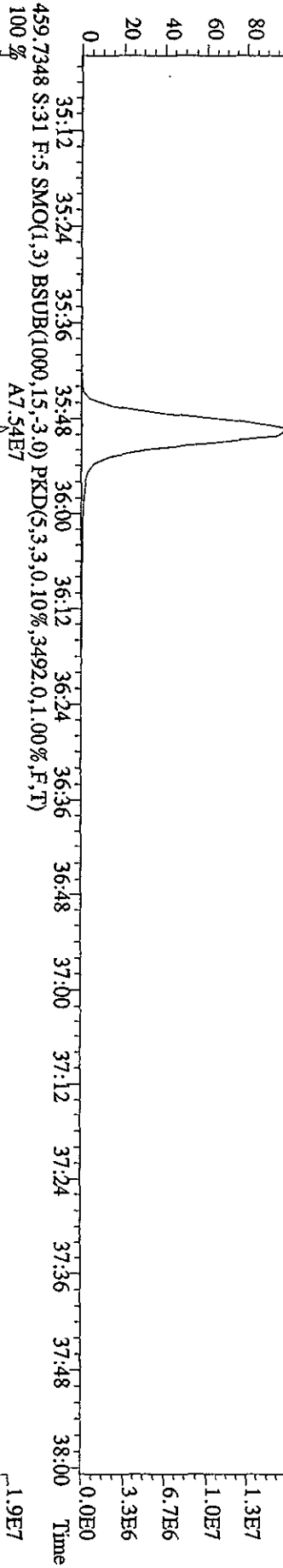
437.8140 S:31 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,12056.0,1.00%,F,T) 100%



File:27SE101D5 #1-196 Acq:28-SEP-2010 06:57:21 GC EI+ Voltage SIR 70SE  
 Sample#31 Text:ST0927B :CS3 10DXN426 Exp:DI0XINRES  
 441.7428 S:31 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5924,0.1,0.0%,F,T)  
 100% A1.04E8



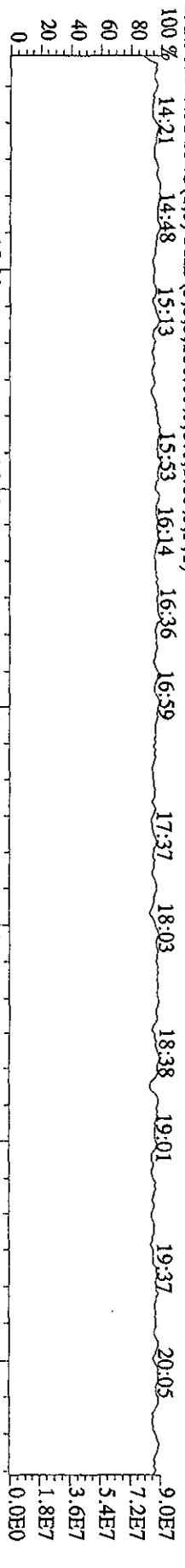
File: 27SE101D5 #1-196 Acq: 28-SEP-2010 06:57:21 GC EI+ Voltage SIR 70SE  
 Sample#31 Text: ST0927B :CS3 10DXN426 Exp: DIOXINRES  
 457.7377 S:31 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5676,0,1,00%,F,T)  
 100% A6:82E7



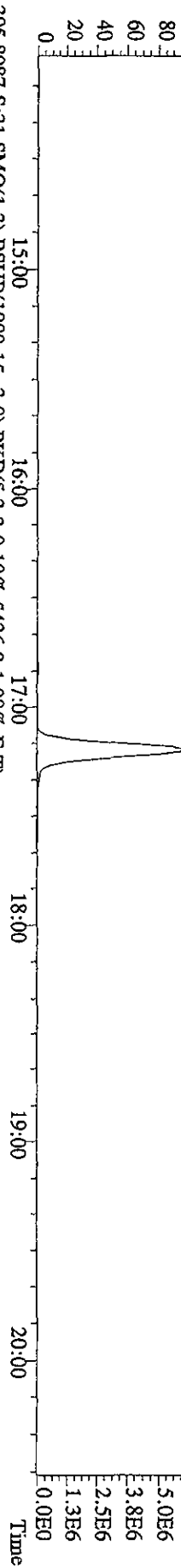
File: 27SE101D5 #1-382 Acq: 28-SEP-2010 06:57:21 GC EI+ Voltage SIR 70SE

Sample#31 Text: ST0927B :CS3 10DXN426 Exp: DIOXINRES

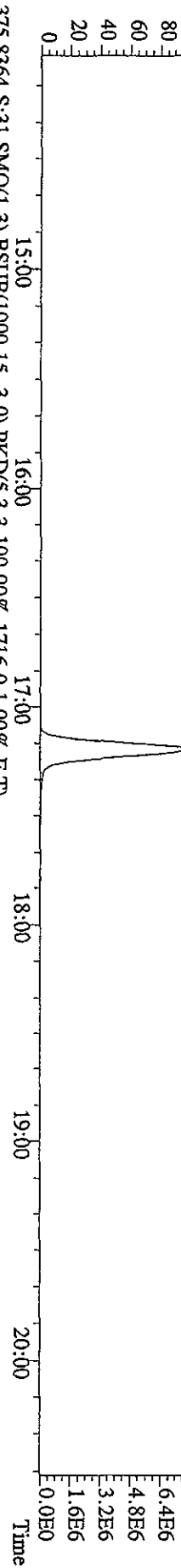
292.9825 S:31 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



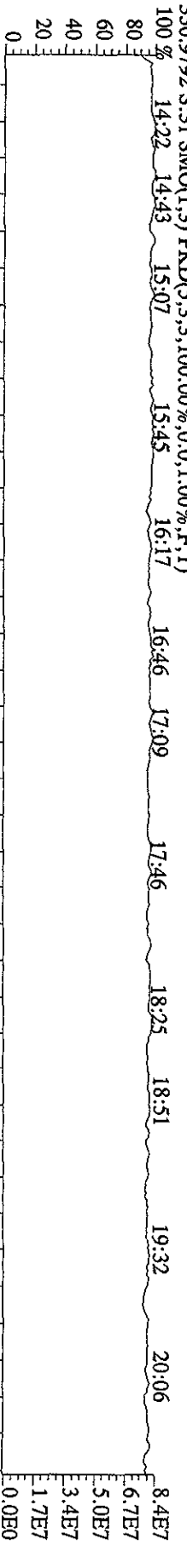
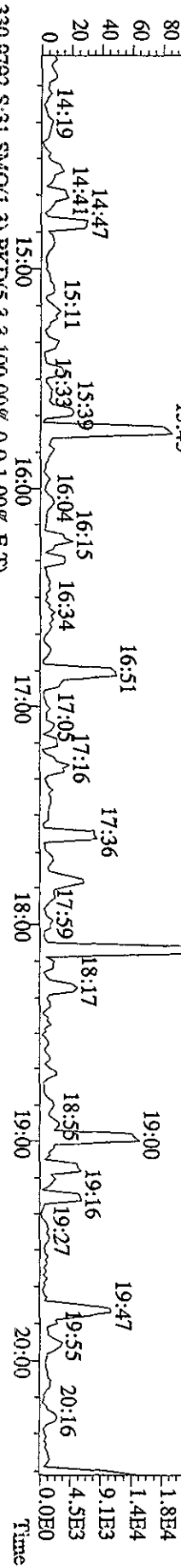
303.9016 S:31 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2952.0,1.00%,F,T)



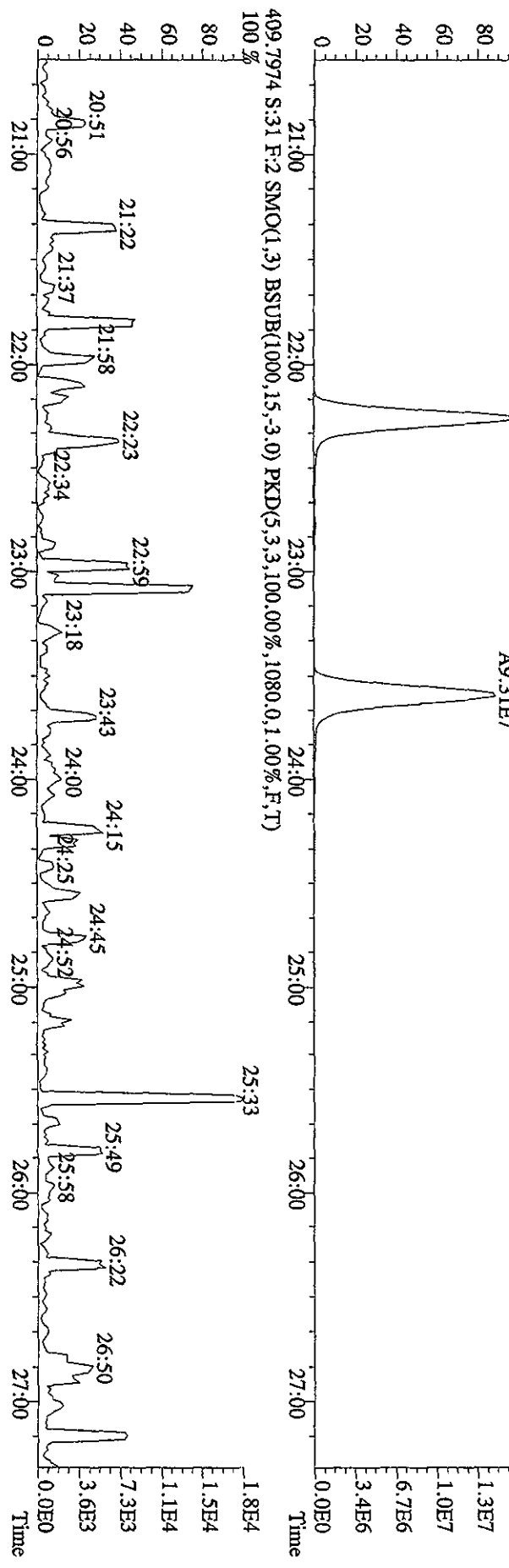
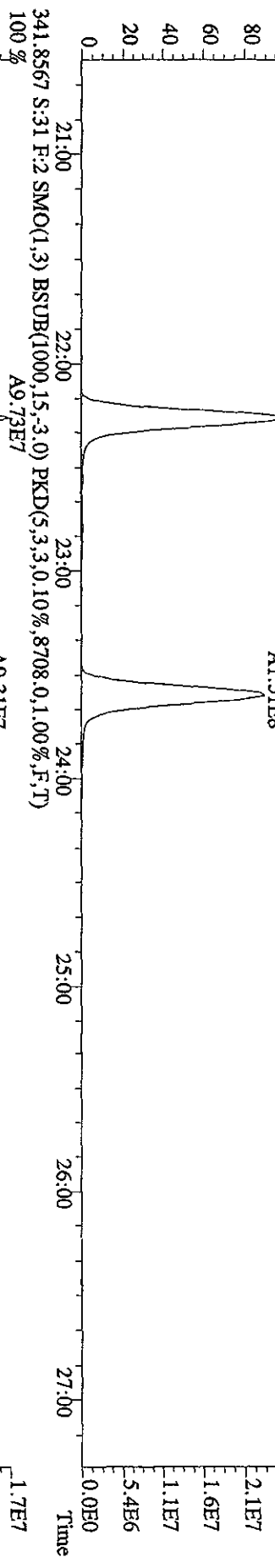
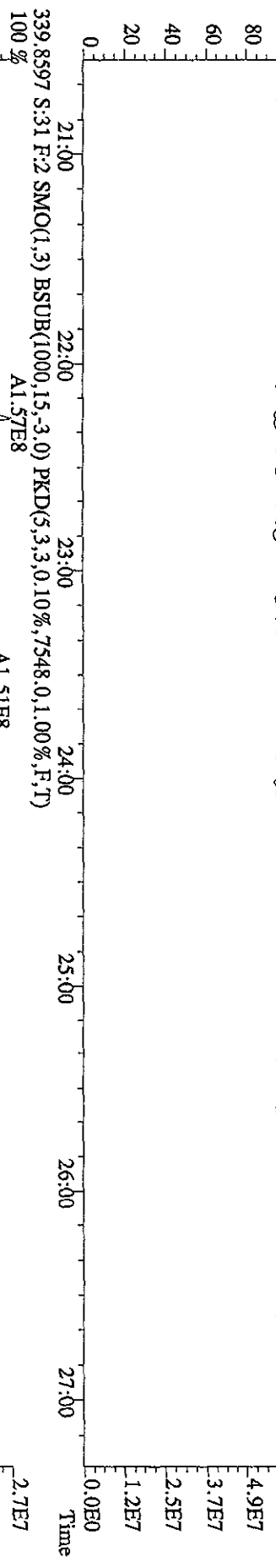
305.8987 S:31 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5436.0,1.00%,F,T)



375.8364 S:31 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1716.0,1.00%,F,T)



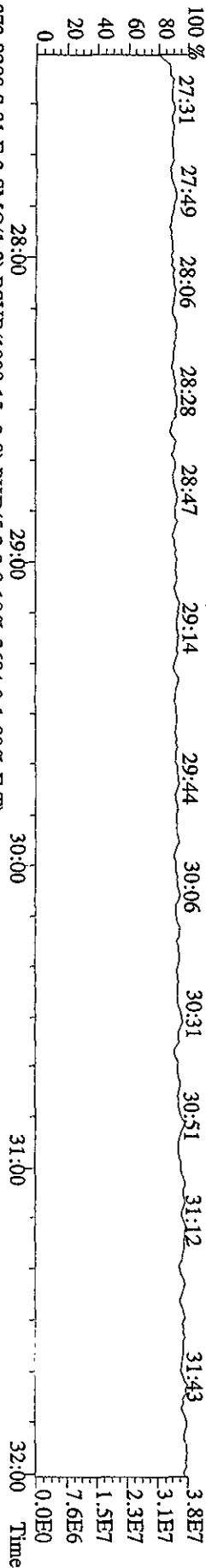
File:27SE101D5 #1-422 Acq:28-SEP-2010 06:57:21 GC EI+ Voltage SIR 70SE  
 Sample#31 Tex:ST0927B :CS3 10DXN426 Exp:DIOXINRES  
 342.9792 S:31 F:2 SMO(1.3) PKD(5.3,3.100.00%,0.0,1.00%,F,T)  
 100% 20:51 21:16 21:37 22:04 22:28 22:58 23:45 24:12 24:41 25:05 25:45 26:10 26:46



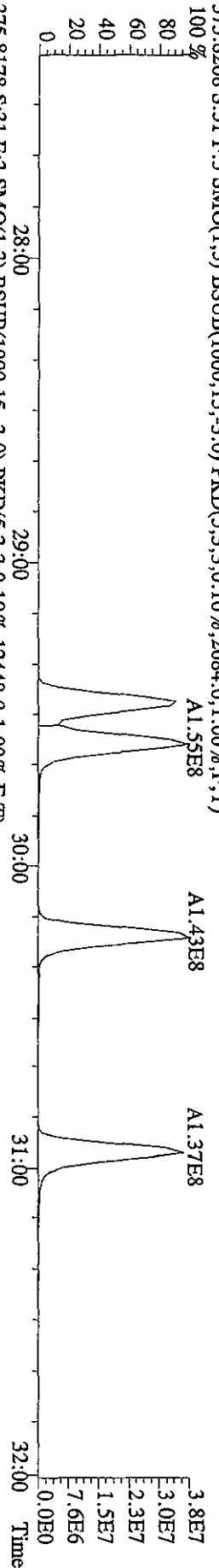
File: 27SE101D5 #1-301 Acq: 28-SEP-2010 06:57:21 GC EI+ Voltage SIR 70SE

Sample#31 Text: ST0927B :CS3 10DXN426 Exp: DIOXINRES

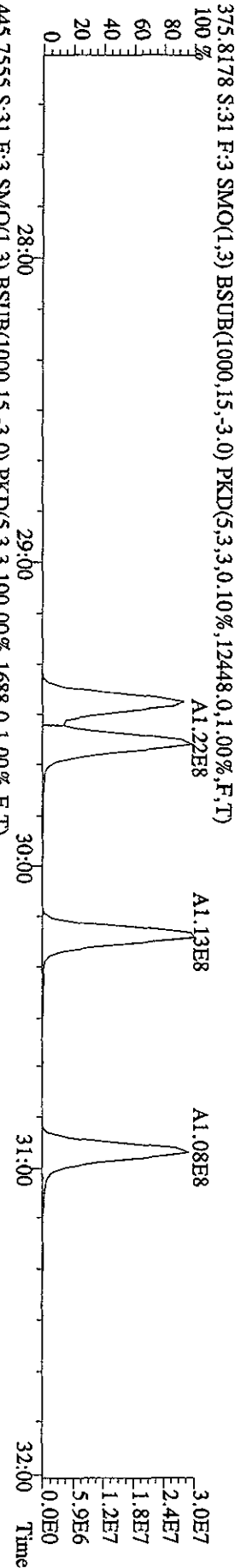
392.9760 S:31 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



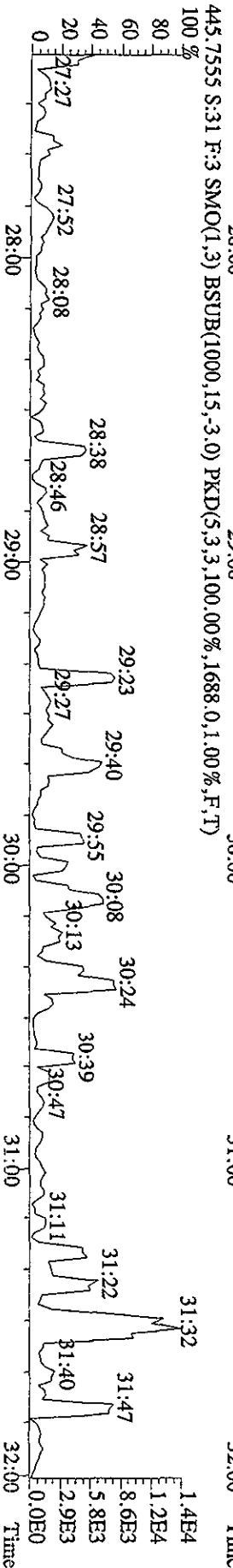
373.8208 S:31 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2684.0,1.00%,F,T)



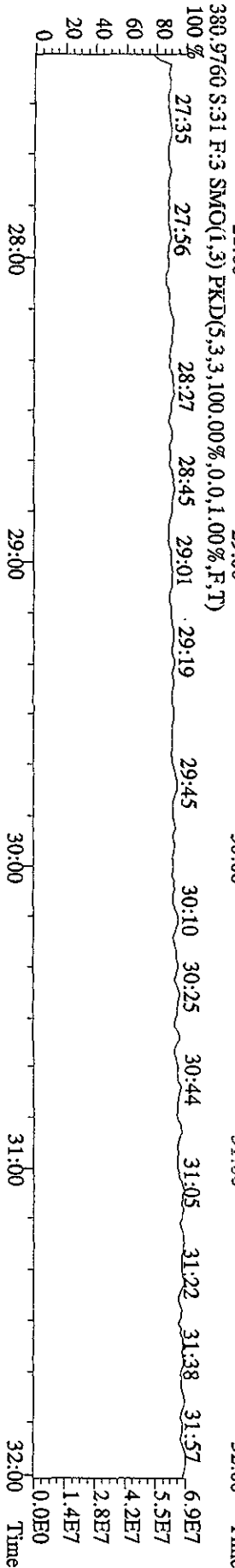
375.8178 S:31 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12448.0,1.00%,F,T)



445.7555 S:31 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1688.0,1.00%,F,T)

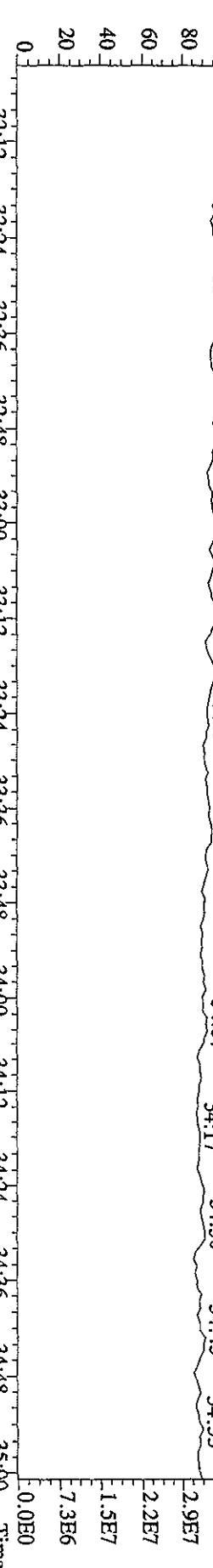


380.9760 S:31 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

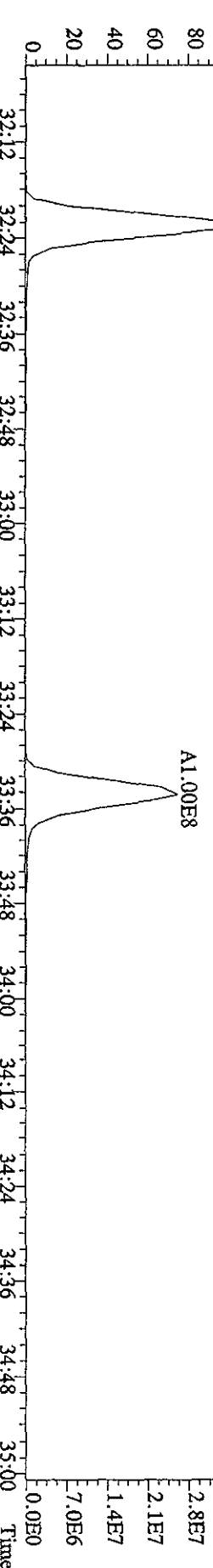




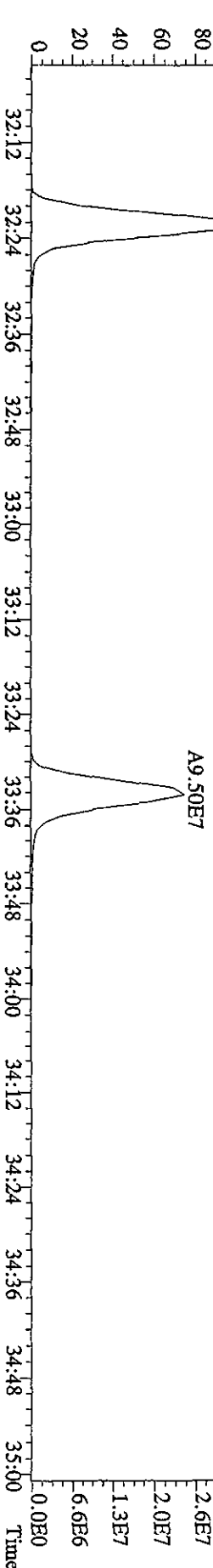
File: 27SE101D5 #1-203 Acq: 28-SEP-2010 06:57:21 GC EI+ Voltage SIR 70SE  
 Sample#31 Text: ST0927B :CS3 10DXN426 Exp: DIOXINRES  
 430.9728 S:31 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100% 32:09 32:33 32:45 33:01 33:12 33:25 33:39 34:04 34:17 34:30 34:43 34:55



407.7818 S:31 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21488,0,1.00%,F,T)  
 100% A1.22E8 A1.00E8  
 3.5E7 2.8E7 2.1E7 1.4E7 7.0E6 0.0E0



409.7789 S:31 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17992,0,1.00%,F,T)  
 100% A1.18E8 A9.50E7  
 3.3E7 2.6E7 2.0E7 1.3E7 6.6E6 0.0E0



479.7165 S:31 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1592,0,1.00%,F,T)  
 100% A3.2:04  
 1.1E4 9.1E3 6.8E3 4.6E3 2.3E3 0.0E0



File: 27SE101D5 #1-196 Acq: 28-SEP-2010 06:57:21 GC: EI+ Voltage: SIR 70SE

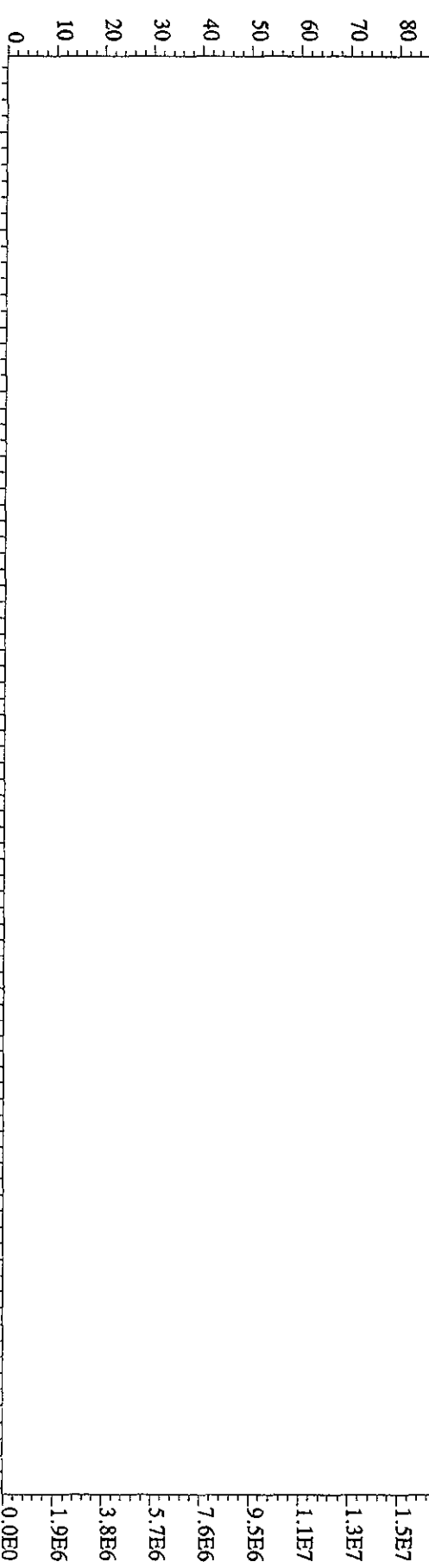
Sample#31 Text: ST0927B : CS3 10DXN426 Exp: DIOXINRES

454.9728 S:31 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 % 35:10 35:20 35:31 35:41 35:54 36:06 36:15

36:38 36:52 37:01 37:15 37:32 37:53

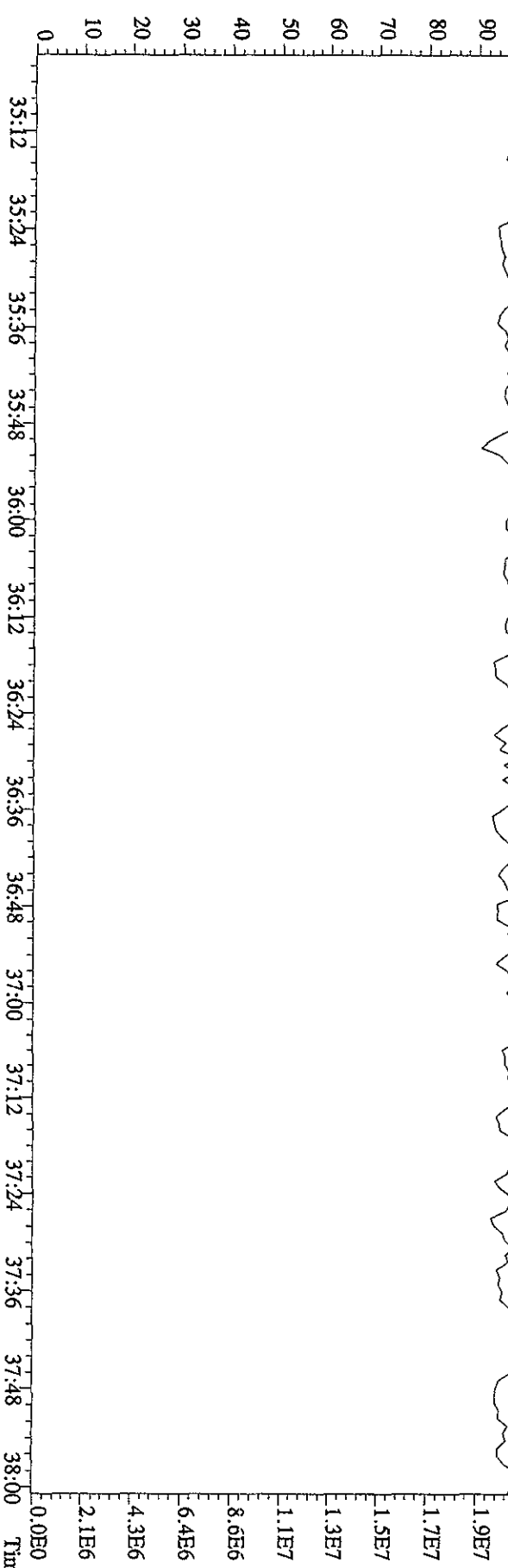
1.9E7



442.9728 S:31 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 % 35:07 35:32 35:48 35:57 36:11 36:23 36:34 36:52 37:02 37:11 37:24 37:42 37:53

2.1E7



0.0E0

Method ID DB225 (TO9/AIR)

Associated ICAL DB225AIR.0726105D2R

Column ID DB225

Instrument ID 5D2

STD ID ST0929, ST0929A

STD Solution 10DXN426

Analyzed by AS, KSS

Date Analyzed 9-29-10

Std. Pkg. By NK

Date Std. Pkg. Assembled 9-29-10

Std. Pkg. Reviewed By AS

Date Std. Pkg. Reviewed 09-30-10

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

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

\* Method 8290/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: ST0929 File text: ST0929 :CS3 10DXN426  
 Run #6 Filename 29SE105D2 S: 2 I: 1  
 Acquired: 29-SEP-10 09:42:33 Processed: 29-SEP-10 13:10:22  
 Run: 29SE105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2R Results: 29SE105D2DB225AIR

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	172833000	0.81 y	15:02	-	100.00	-	n
13C-2,3,7,8-TCDF	350063000	0.81 y	16:16	2.03	100.00	-4.1	n
2,3,7,8-TCDF	35348100	0.83 y	16:16	1.01	10.00	-4.4	n
13C-2,3,7,8-TCDD	166268900	0.77 y	14:44	0.96	100.00	8.7	n
2,3,7,8-TCDD	26977200	0.78 y	14:45	1.62	10.00	-0.8	n
37Cl-2,3,7,8-TCDD	26752400	1.00 y	14:45	1.61	10.00	10.3	n

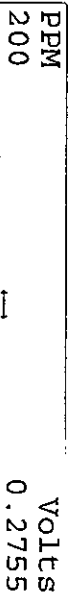
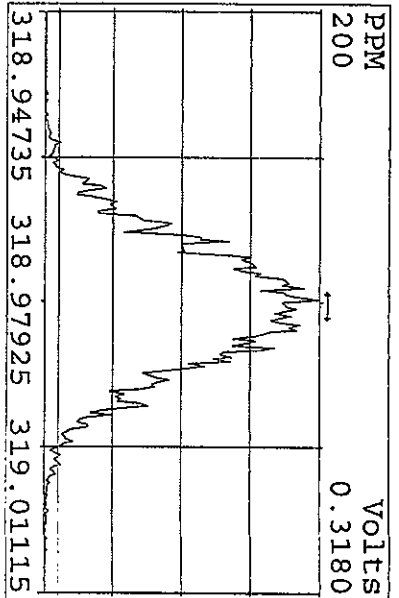
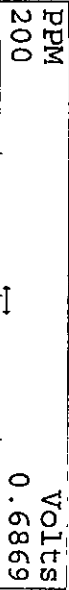
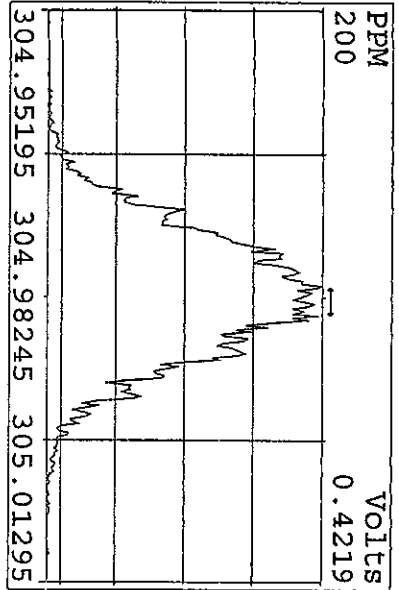
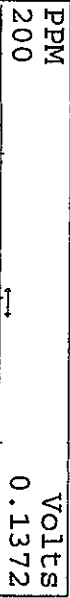
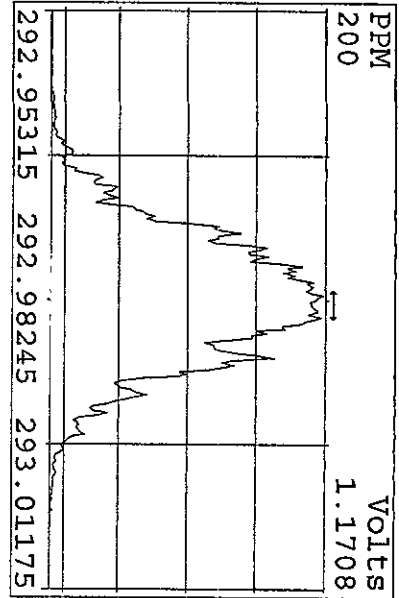
Run text: ST0929A File text: ST0929A :CS3 10DXN426  
 Run #12 Filename 29SE105D2 S: 19 I: 1  
 Acquired: 29-SEP-10 19:57:25 Processed: 30-SEP-10 09:56:19  
 Run: 29SE105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2R Results: 29SE105D2DB225AIR

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4--TCDD	165952416	0.80 y	15:03	-	100.00	-	n
13C-2,3,7,8--TCDF	326694592	0.79 y	16:16	1.97	100.00	-6.8	n
2,3,7,8--TCDF	31851296	0.81 y	16:17	0.97	10.00	-7.7	n
13C-2,3,7,8--TCDD	156572584	0.79 y	14:45	0.94	100.00	6.6	n
2,3,7,8--TCDD	25916871	0.80 y	14:46	1.66	10.00	1.2	n
37Cl-2,3,7,8--TCDD	25221192	1.00 y	14:46	1.61	10.00	10.5	n

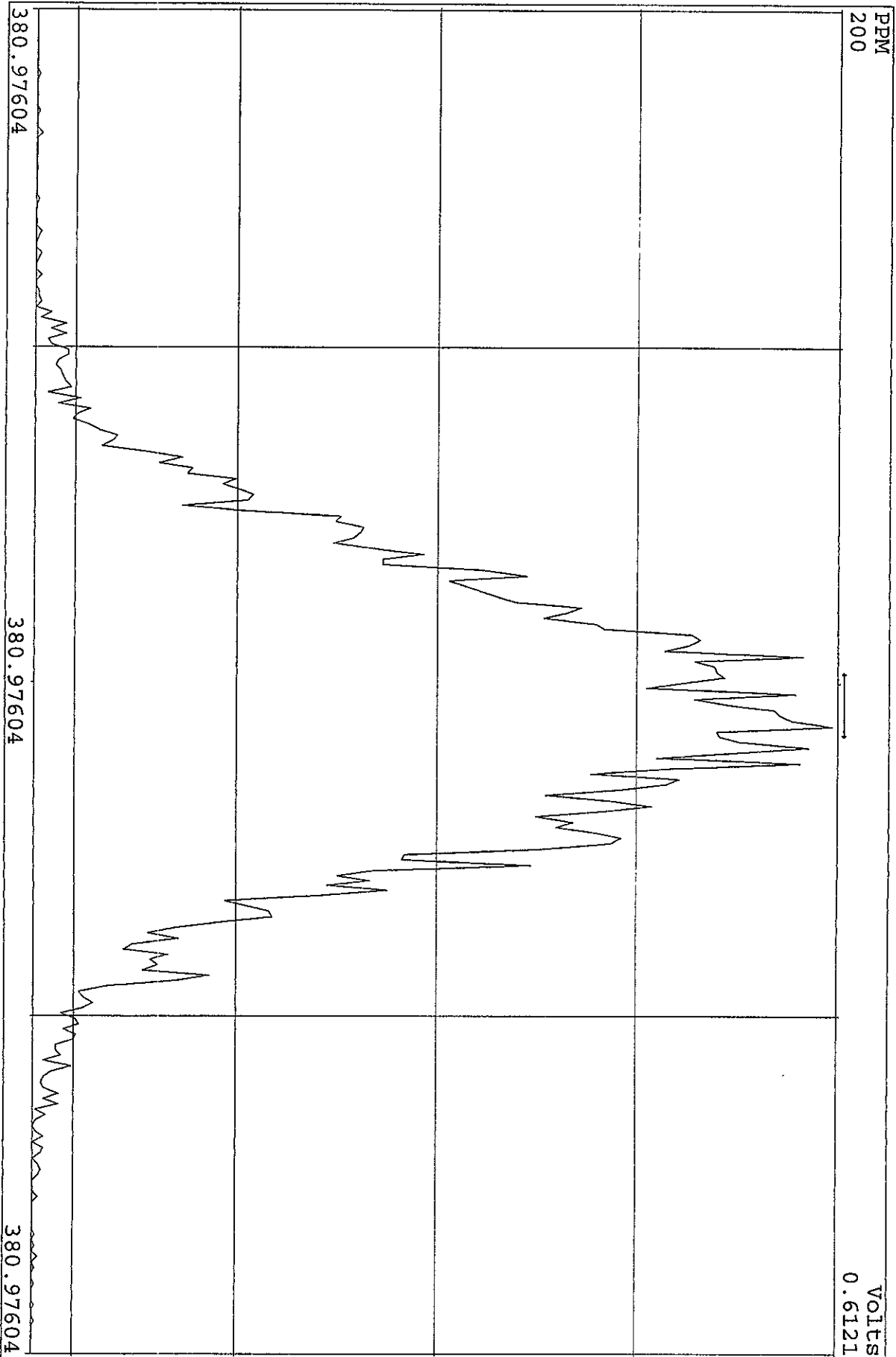
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
29SE105D2	1	CP0929	DB-225 CPSM 3732-06				1.0000	
29SE105D2	2	ST0929	CS3 10DXN426				1.0000	
29SE105D2	3	SB0929	Solvent Blank C-14				1.0000	
29SE105D2	4	L66G2-1-A3	G0I170626-11	20	8290/SOLID	58	10.0100	g
29SE105D2	5	L6QLN-1-AA	G0I090538-2	20	1613B/WATER	55	1.0560	L
29SE105D2	6	L7DQM-1-AA	G0I230491-3	20	TO9-AIR	58	0.5000	SAM
29SE105D2	7	L7DQR-1-AA	G0I230491-7	20	TO9-AIR		0.5000	SAM
29SE105D2	8	L7DRA-1-AA	G0I230491-15	20	TO9-AIR		0.5000	SAM
29SE105D2	9	L7DRH-1-AA	G0I230491-19	20	TO9-AIR		0.5000	SAM
29SE105D2	10	L6QLP-1-AA	G0I090538-3	20	1613B/WATER		1.0751	L
29SE105D2	11	L6T59-1-AA	G0I100604-1	20	1613B/WATER		1.0423	L
29SE105D2	12	L6DLJ-1-AC	G0H310592-1	10	8290/SOLID	48	10.2400	g
29SE105D2	13	L6DLK-1-AC	G0H310592-2	10	8290/SOLID		9.6200	g
29SE105D2	14	L7E0R-2-AD	G0I230625-1RX	20	8290/SOLID	62	10.3600	g
29SE105D2	15	L7E0T-2-AD	G0I230625-2RX	20	8290/SOLID		10.5600	g
29SE105D2	16	L7E0W-2-AD	G0I230626-1RX	20	8290/SOLID		10.8600	g
29SE105D2	17	L7E00-2-AD	G0I230626-2RX	20	8290/SOLID		10.7300	g
29SE105D2	18	L7E01-2-AD	G0I230627-1RX	20	8290/SOLID		10.1200	g
29SE105D2	19	ST0929A	CS3 10DXN426				1.0000	
29SE105D2	20	CP0929A	DB-225 CPSM 3732-06				1.0000	
29SE105D2	21	SB0929A	Solvent Blank C-14				1.0000	
29SE105D2	22	L58DW-1-AC	G0H270532-12 RI	10	8290/SOLID	36	10.5400	g
29SE105D2	23	L6DLQ-1-AC	G0H310592-7	10	8290/SOLID	48	10.4700	g
29SE105D2	24	L6DLR-1-AC	G0H310592-8	10	8290/SOLID		9.8200	g
29SE105D2	25	L6DLT-1-AC	G0H310592-9	10	8290/SOLID		9.9500	g
29SE105D2	26	L6DL2-1-AC	G0H310592-10	10	8290/SOLID		9.8400	g
29SE105D2	27	L6DL2-1-AC	G0H310592-11	10	8290/SOLID		9.8400	g
29SE105D2	28	L6DL6-1-AC	G0H310592-12	10	8290/SOLID		10.2500	g
29SE105D2	29	L6DL8-1-AC	G0H310592-13	10	8290/SOLID		9.5800	g
29SE105D2	30	L6DL8-1-AD	G0H310592-13MS	10	8290/SOLID		10.0700	g
29SE105D2	31	L6DL8-1-AE	G0H310592-13MSD	10	8290/SOLID		9.8600	g
29SE105D2	32	L6DL9-1-AC	G0H310592-14	10	8290/SOLID		10.2200	g
29SE105D2	33	L6DMC-1-AC	G0H310592-15	10	8290/SOLID		10.1500	g
29SE105D2	34	L6DMD-1-AC	G0H310592-16	10	8290/SOLID		9.9000	g
29SE105D2	35	SB0929B	Solvent Blank C-14				1.0000	
29SE105D2	36	ST0929B	CS3 10DXN426				1.0000	
29SE105D2	37	CP0929B	DB-225 CPSM 3732-06				1.0000	
29SE105D2	38	SB0929D	Solvent Blank C-14				1.0000	
29SE105D2	39	L6DF4-1-AC	G0H310579-21	10	8290/SOLID	47	10.4400	g
29SE105D2	40	L6DF4-1-AE	G0H310579-21MS	10	8290/SOLID		9.9100	g
29SE105D2	41	L6DF4-1-AE	G0H310579-21MSD	10	8290/SOLID		9.9100	g
29SE105D2	42	L6DF6-1-AC	G0H310579-23	10	8290/SOLID		10.1800	g
29SE105D2	43	L6DF5-1-AC	G0H310579-22	10	8290/SOLID		9.7200	g
29SE105D2	44	SB0929C	Solvent Blank C-14				1.0000	
29SE105D2	45						1.0000	
29SE105D2	46						1.0000	
29SE105D2	47						1.0000	
29SE105D2	48		KSS,AS 09-29-10				1.0000	

*log file vid file 9/29/10*

Peak Locate Examination: 29-SEP-2010:09:05 File: 29SE105D2  
 Experiment: DB225RFS Function: 1 Reference: PFK

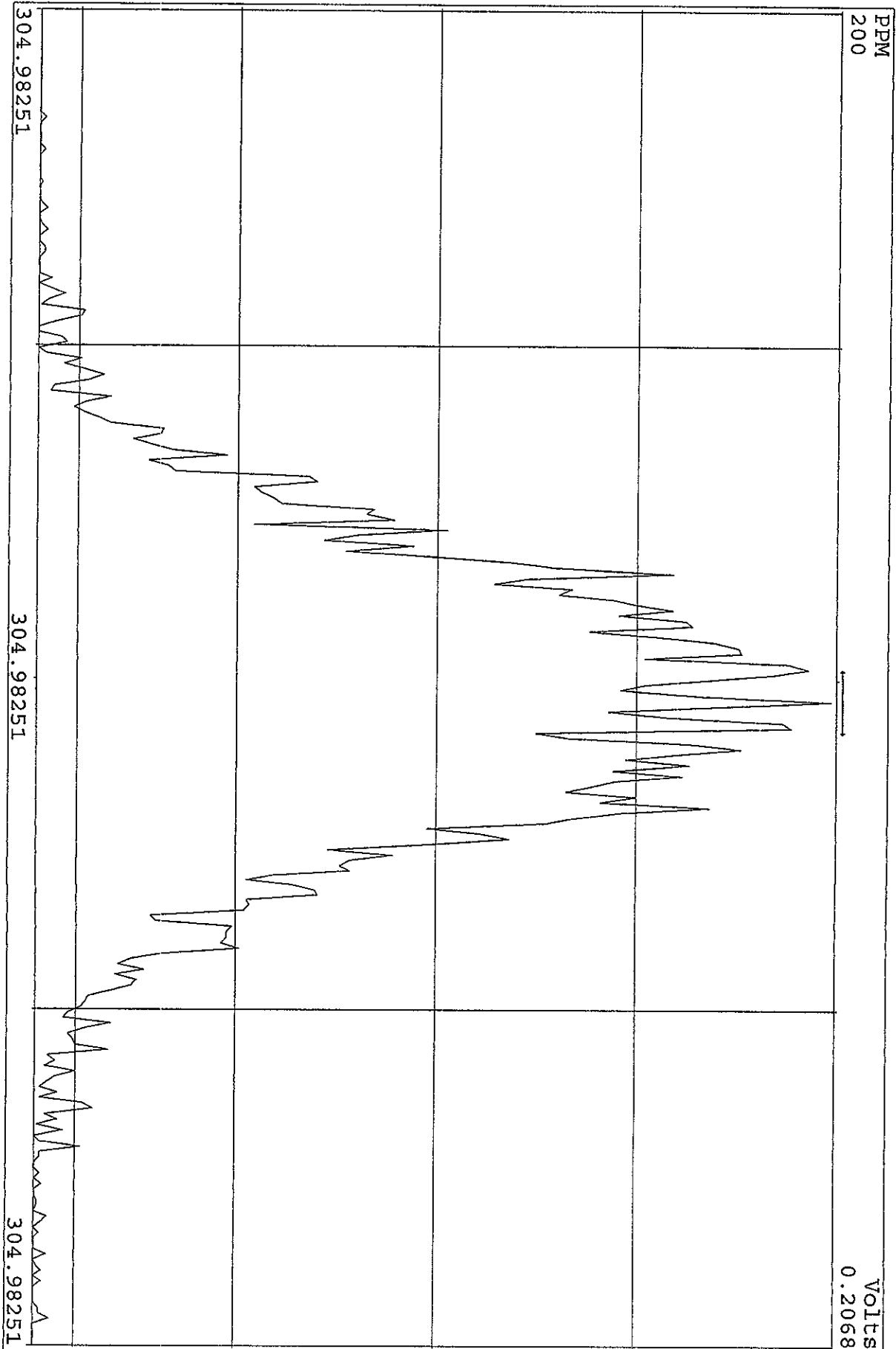


SIRLM Examination: 29-SEP-2010:19:11 File: 29SE104D5  
Experiment: DIOXINRES Function: 6

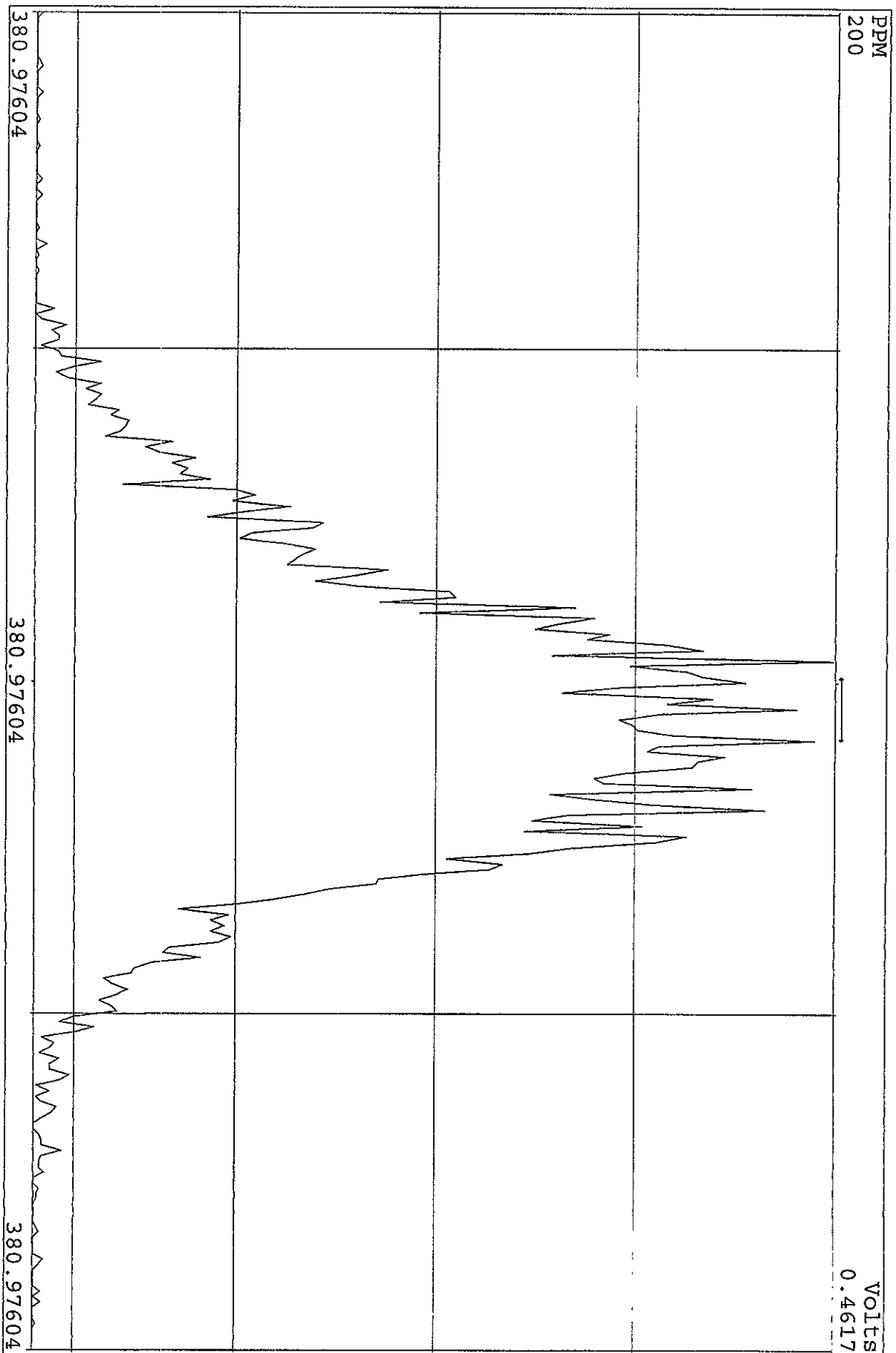




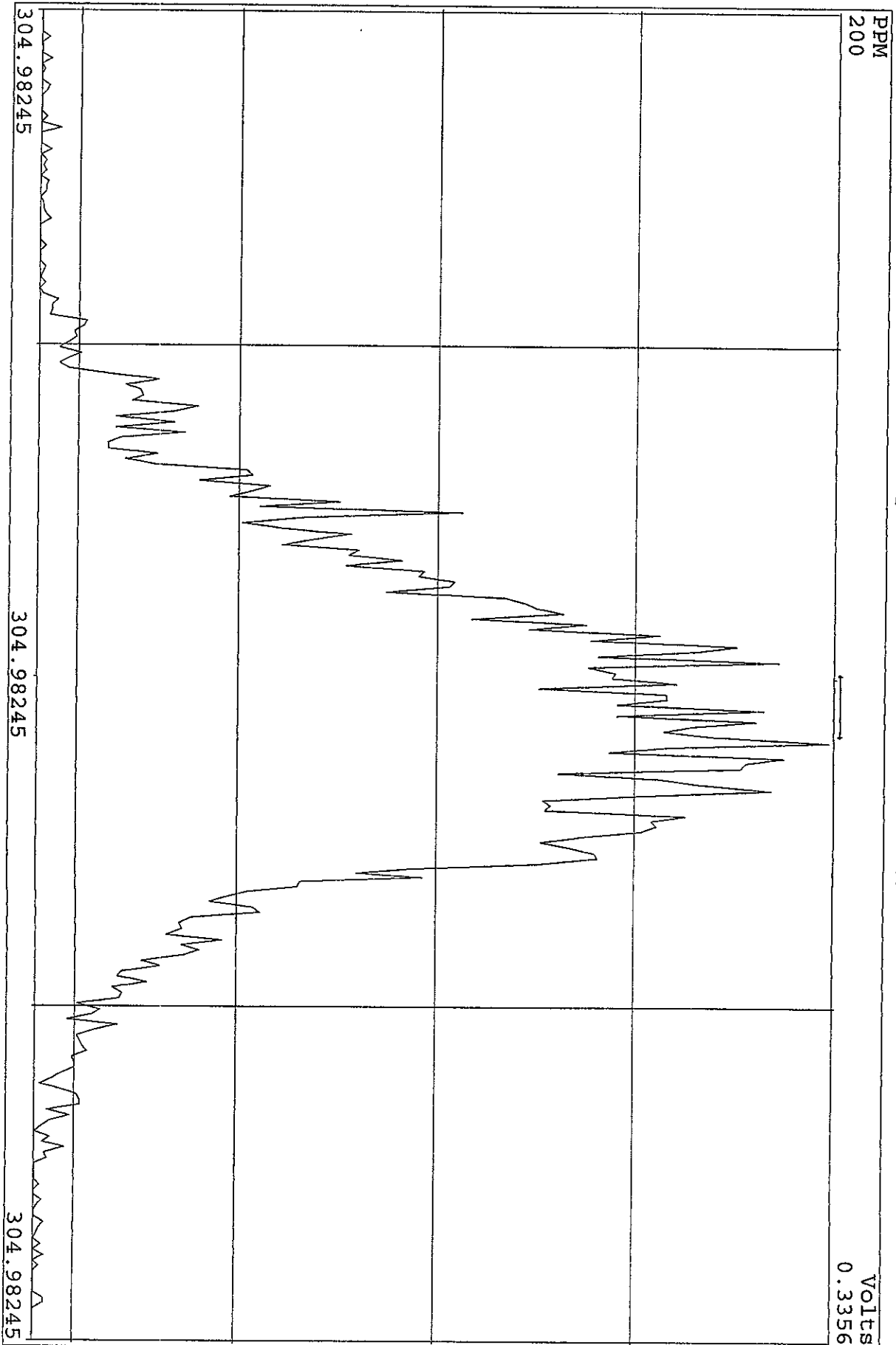
SIRLM Examination: 29-SEP-2010: 19:12 File: 29SE104D5  
Experiment: DIOXINRES Function: 7



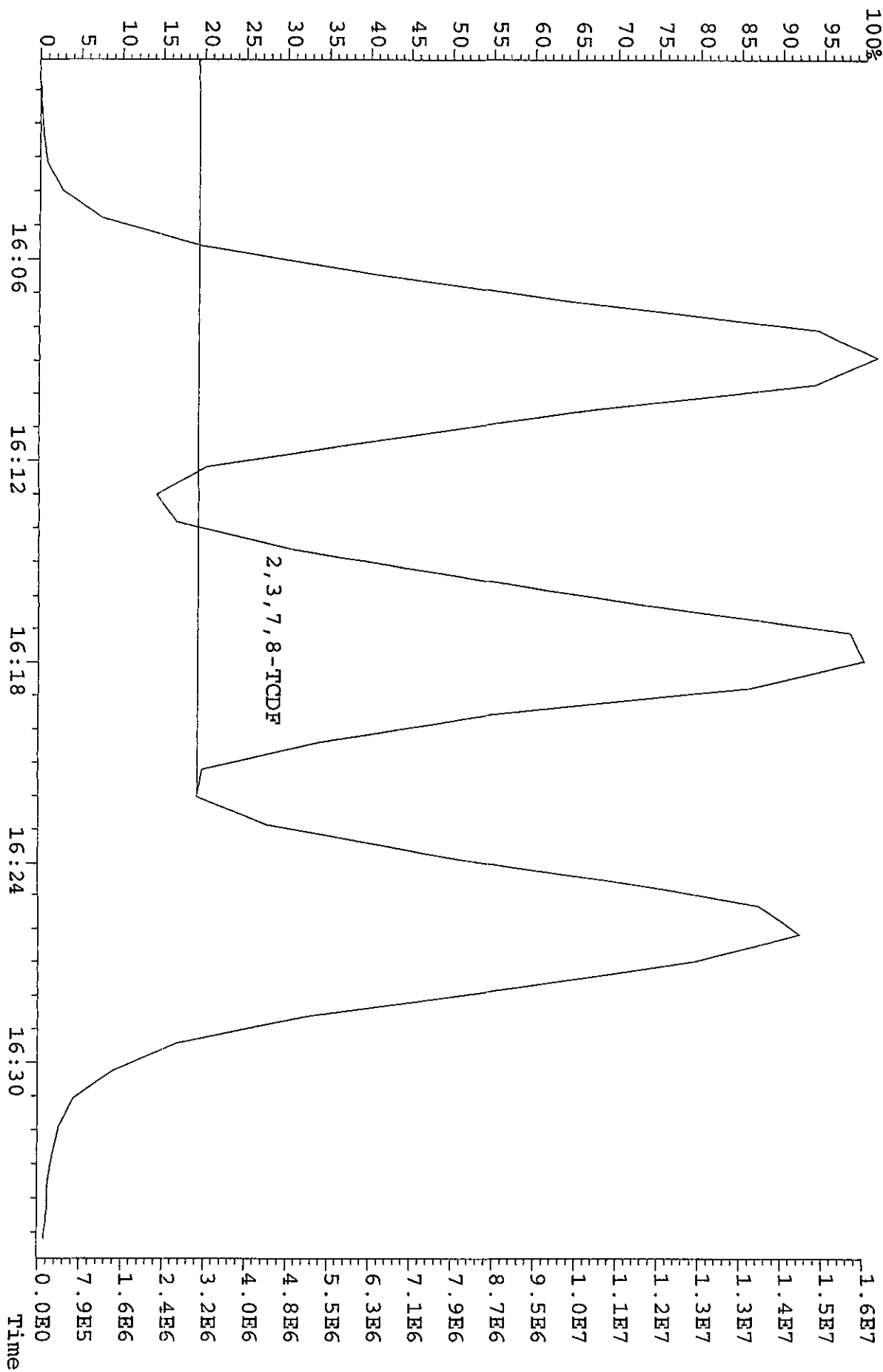
SIRLM Examination: 29-SEP-2010: 20:22 File: 29SEF105D2  
Experiment: DB225RES Function: 2



SIRLM Examination: 29-SEP-2010:20:24 File: 29SSE105D2  
Experiment: DB225RES Function: 3



File: 29SEI105D2 #1-1242 Acq: 29-SEP-2010 09:06:27 GC EI+ Voltage SIR 70SE  
 303.9016 BSUB(128,15,-3.0) Exp: DB225RES Noise: 1336  
 Sample Text: CP0929 : DB-225 CPSM 3732-06

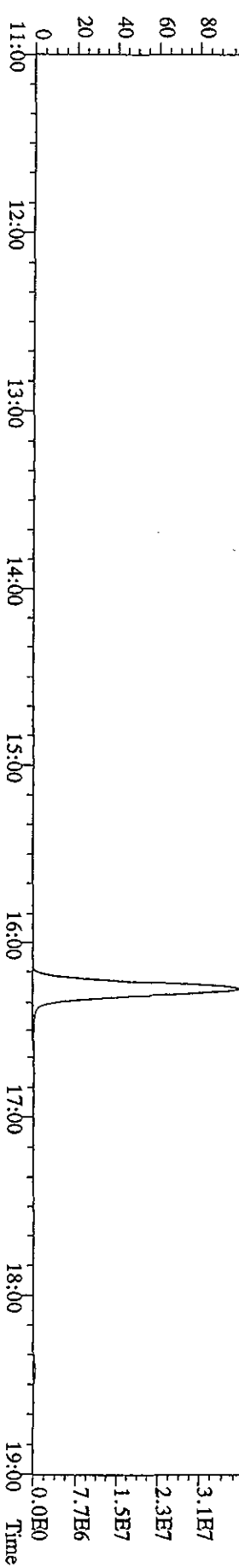
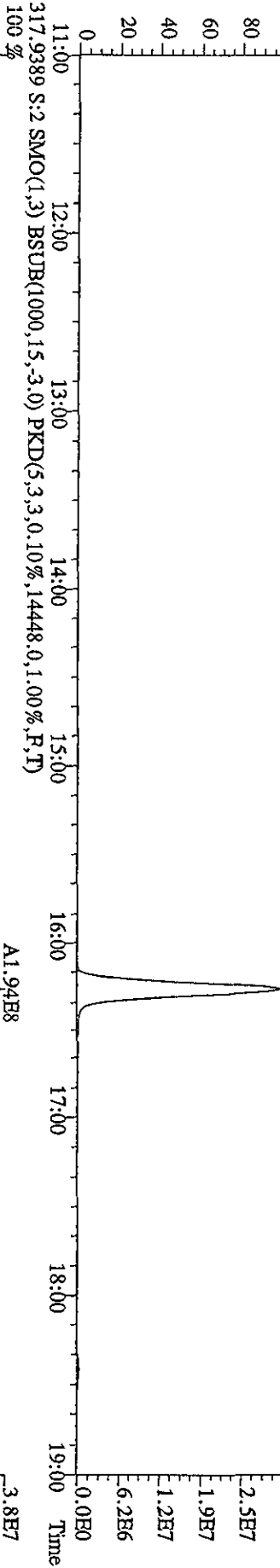
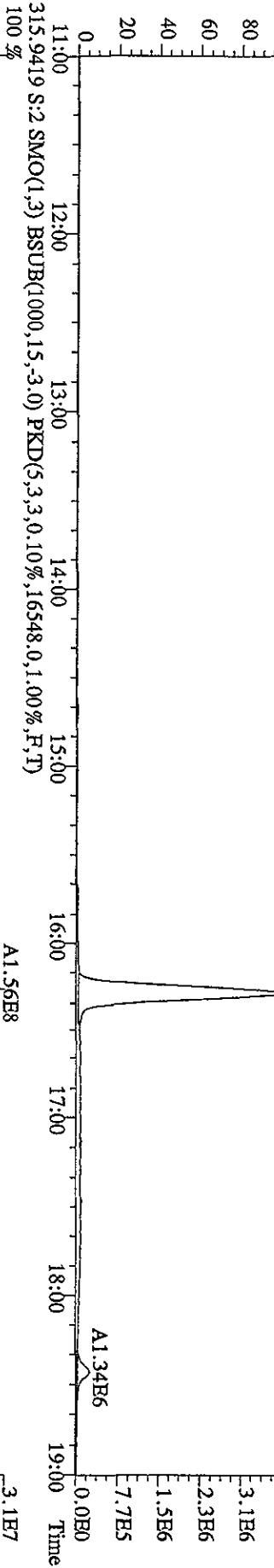
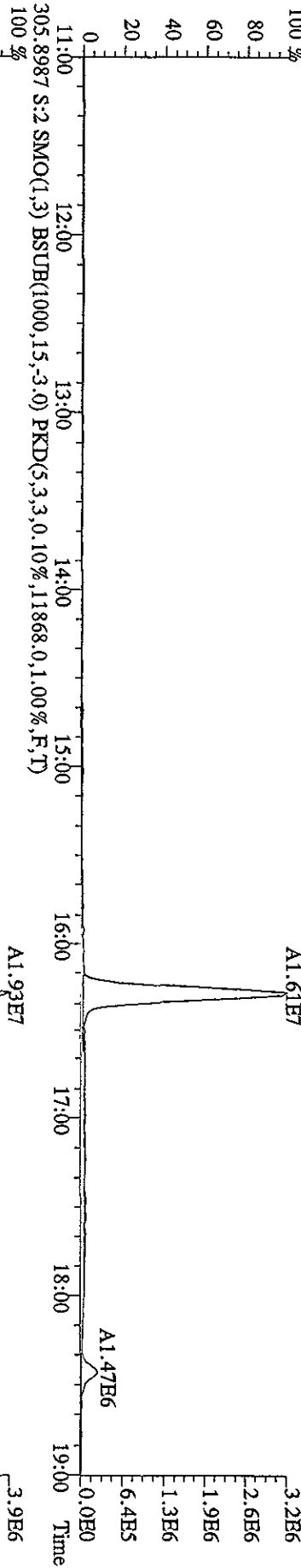


Run: 29SE105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2R

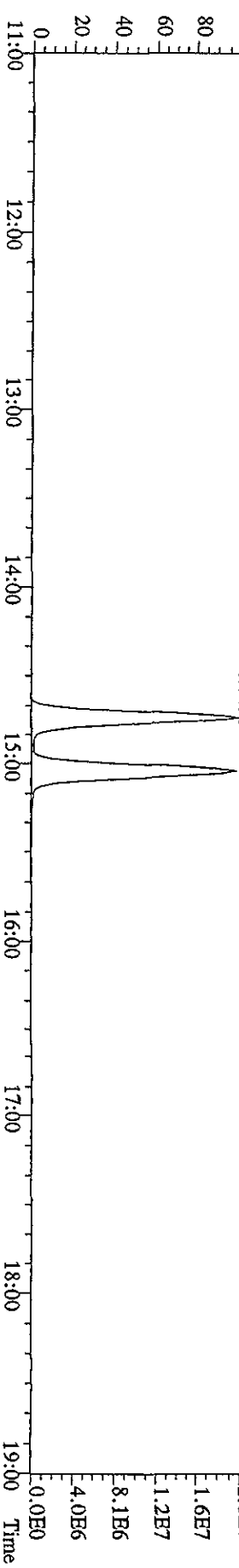
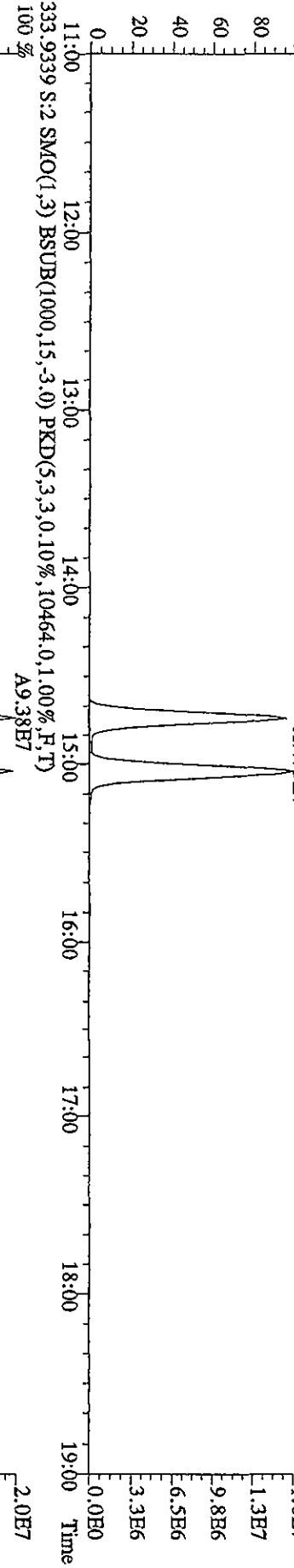
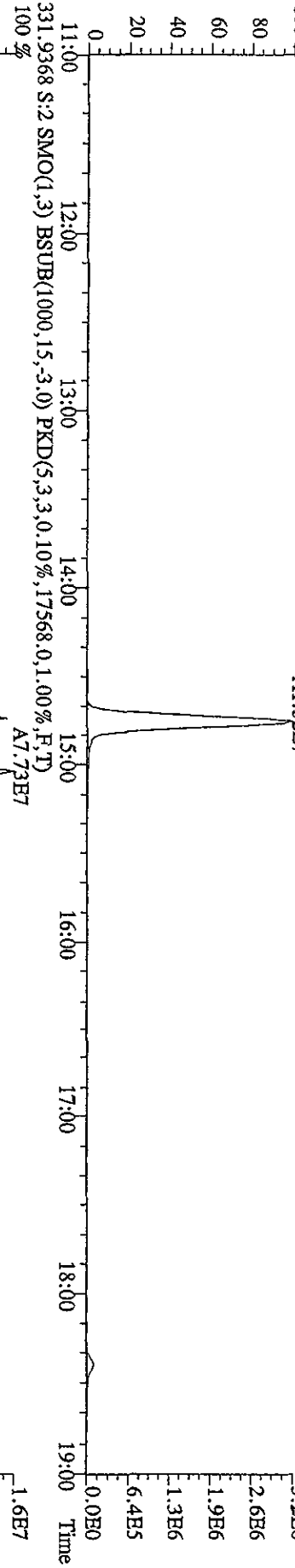
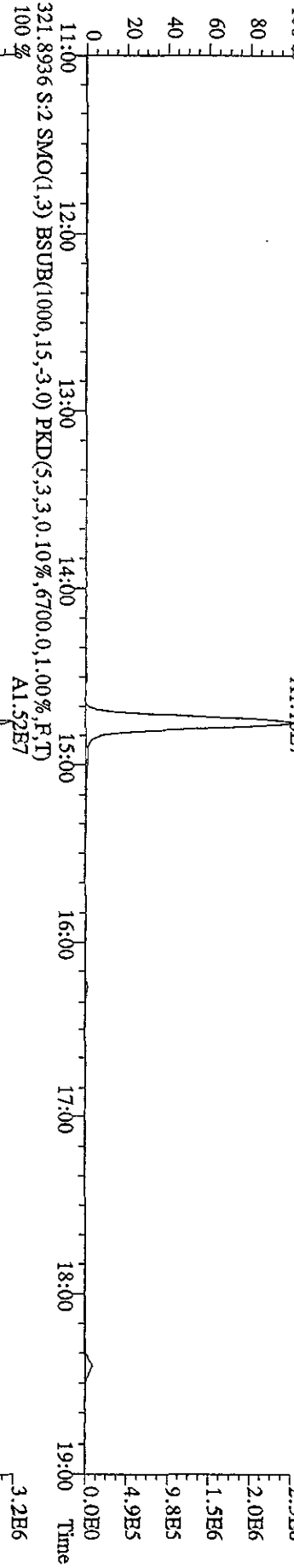
ST0726A :CS-1 10DXN342 RI ST0726B :CS-2 10DXN335 ST0726C :CS-3 10DXN336  
 ST0726E :CS-4 10DXN337 ST0726D :CS-5 10DXN339

Name	Mean	S. D.	%RSD	26JL105D2				
				RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	2.111	0.055	2.59 %	2.14	2.09	2.12	2.03	2.18
2,3,7,8-TCDF	1.056	0.035	3.32 %	1.11	1.04	1.02	1.06	1.04
13C-2,3,7,8-TCDD	0.885	0.025	2.78 %	0.91	0.87	0.91	0.86	0.87
2,3,7,8-TCDD	1.636	0.024	1.44 %	1.64	1.67	1.61	1.63	1.62
37Cl-2,3,7,8-TCDD	1.458	0.044	3.01 %	1.40	1.42	1.47	1.49	1.50

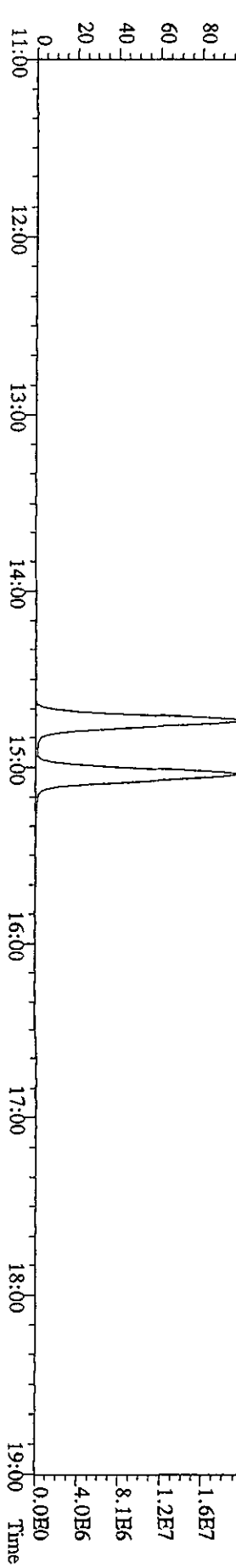
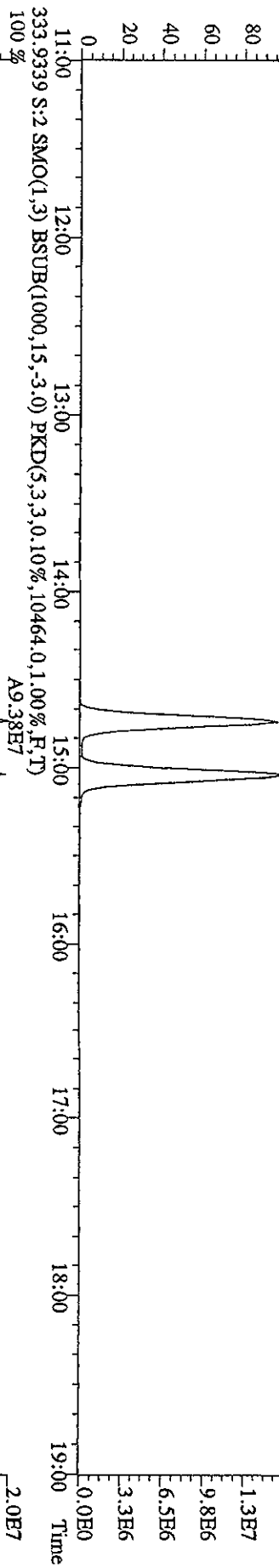
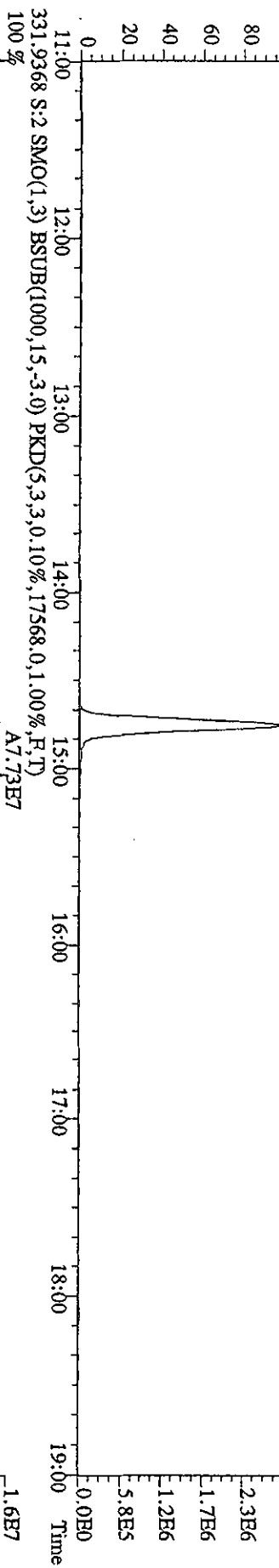
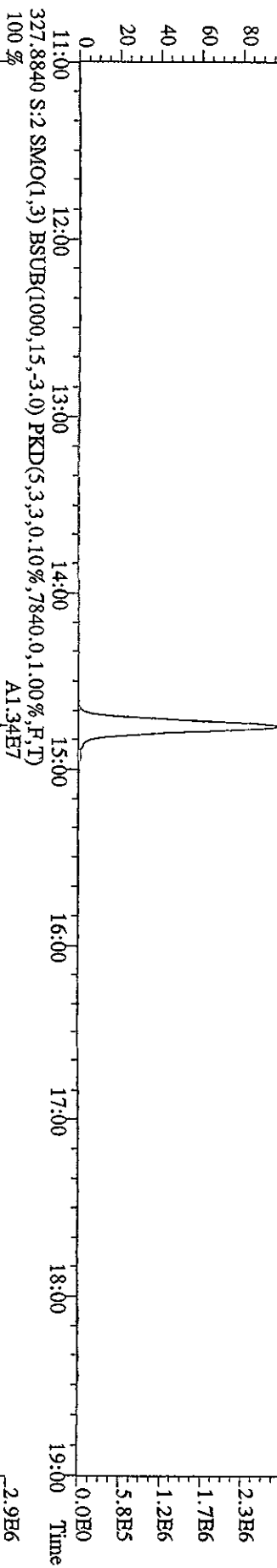
File: 29SE105D2 #1-1242 Acq: 29-SEP-2010 09:42:33 GC HI+ Voltage SIR 70SE  
 Sample#2 Text: ST0929 :CS3 10DXN426 Exp: DB225RES  
 303.9016 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,8196.0,1.00%,F,T)



File: 29SE105D2 #1-1242 Acq: 29-SEP-2010 09:42:33 GC EI+ Voltage SIR 70SE  
 Sample#2 Text: ST0929 :CS3 10DXN426 Exp: DB225RES  
 319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4756.0,1.00%,F,T) A1.18E7  
 100%

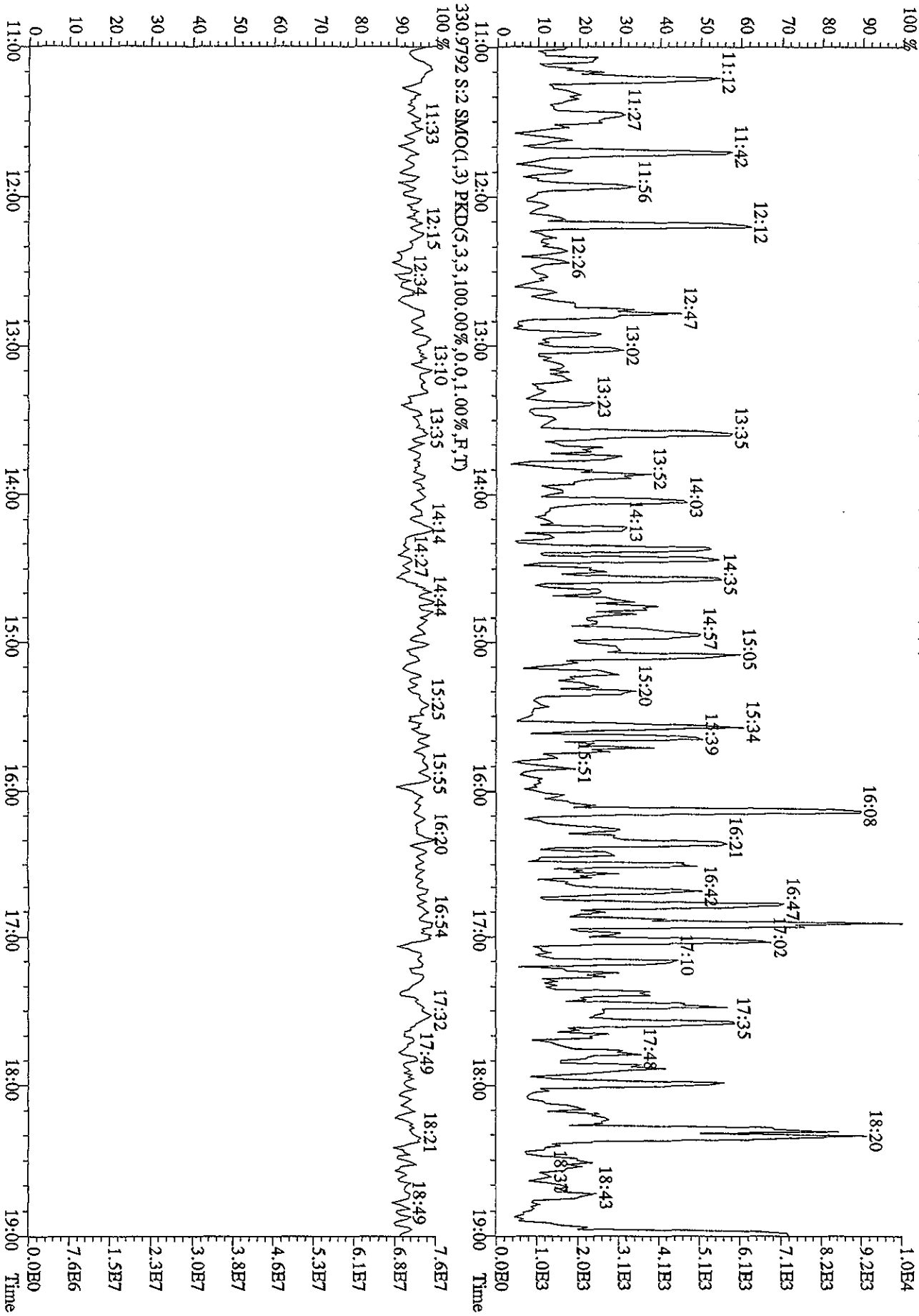


File: 29SEI05D2 #1-1242 Acq: 29-SEP-2010 09:42:33 GC EI+ Voltage SIR 70SE  
 Sample#2 Text: ST0929 :CS3 10DYXN426 Exp: DB225RES  
 327.8840 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7840,0,1,00%,F,T)  
 100%

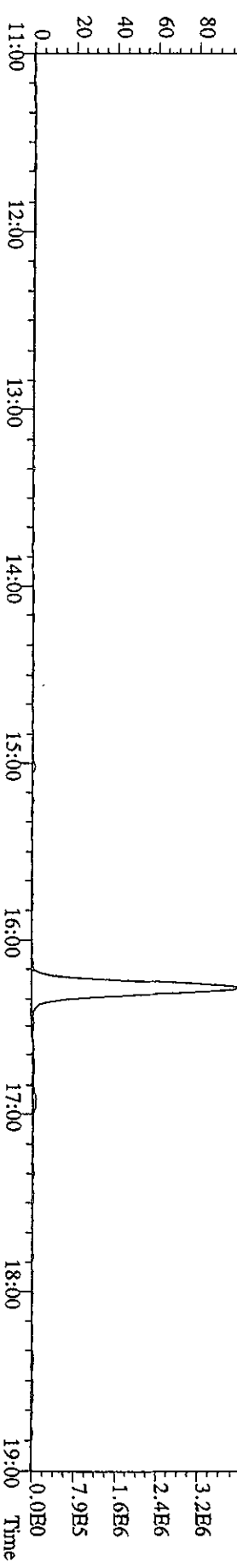
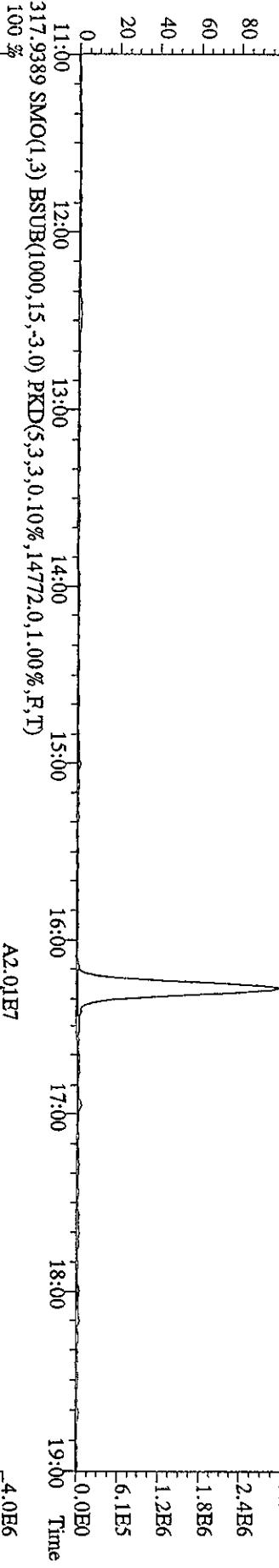
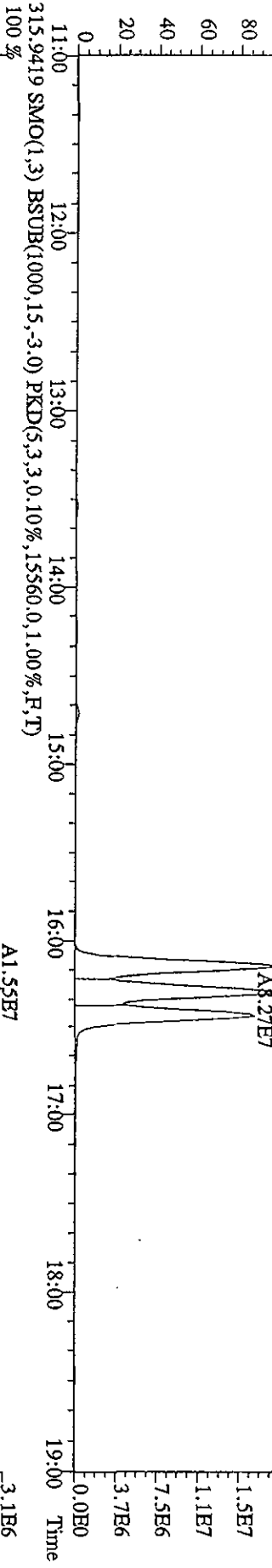
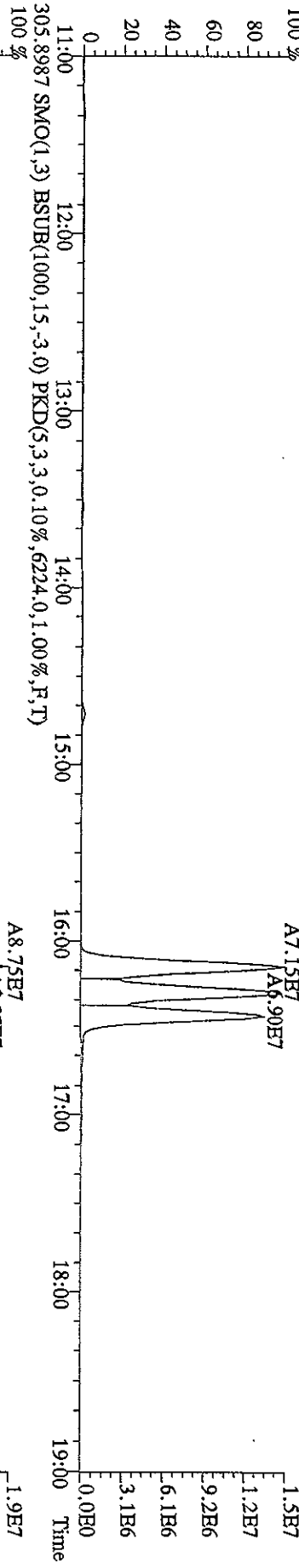




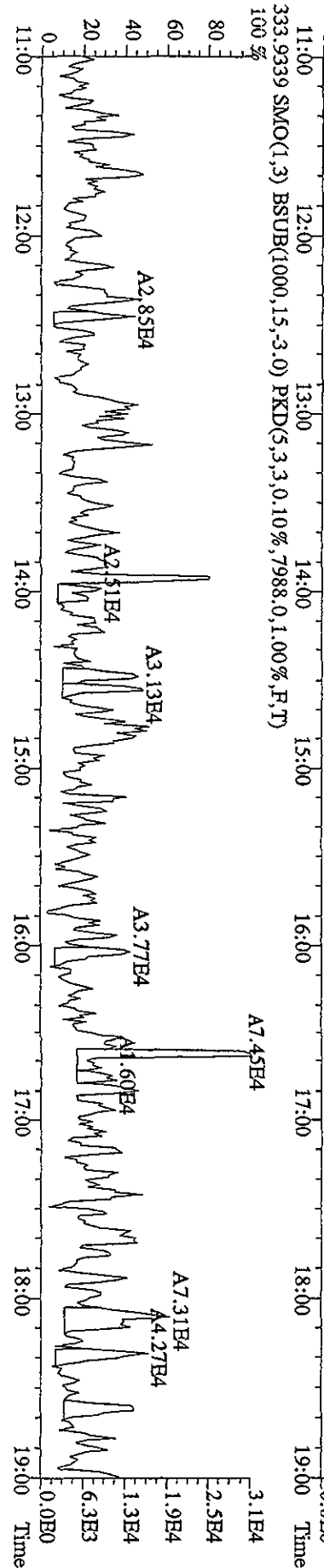
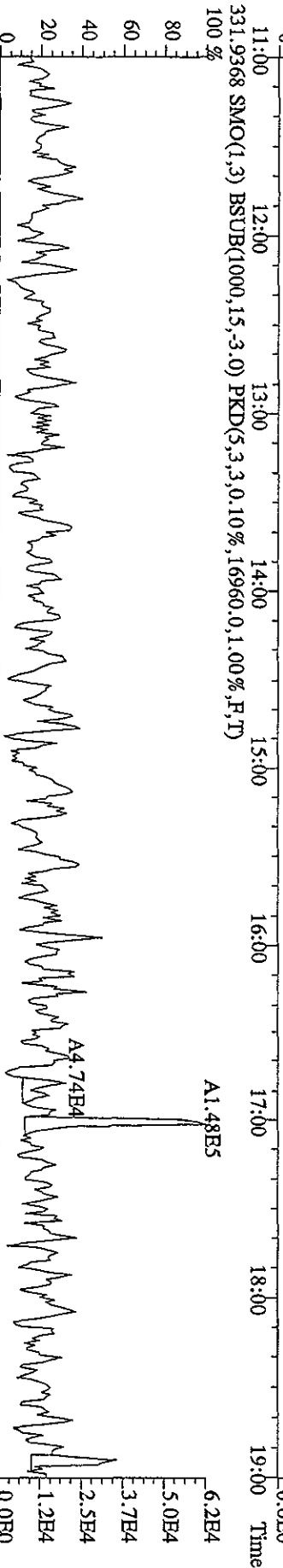
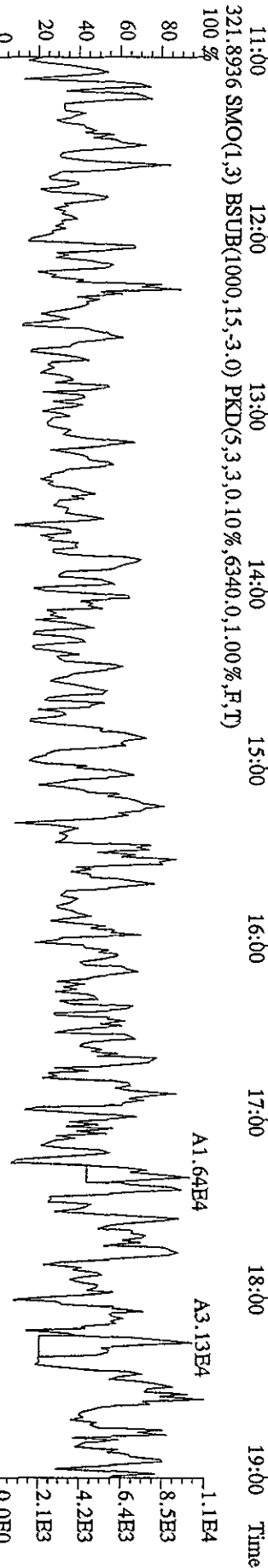
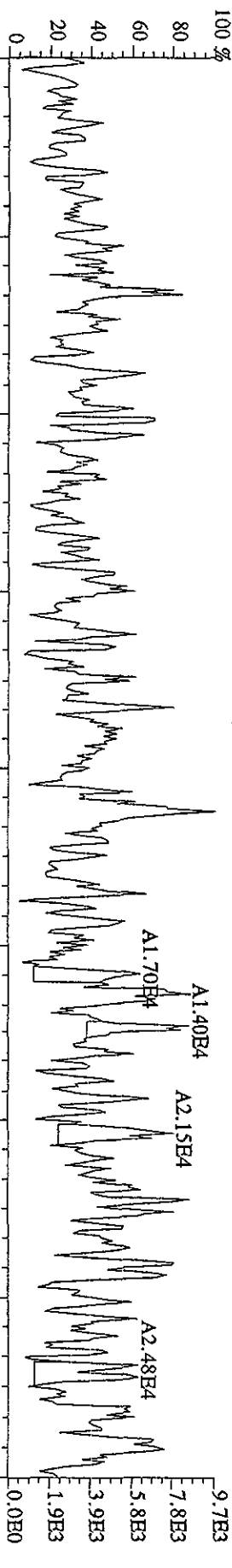
File: 29SE105D2 #1-1242 Acq: 29-SEP-2010 09:42:33 GC EI+ Voltage SIR 70SE  
 Sample#2 Text: ST0929 :CS3 10DXN426 Exp: DB225RES  
 375.8364 S:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,1804.0,1.00%,F,T)



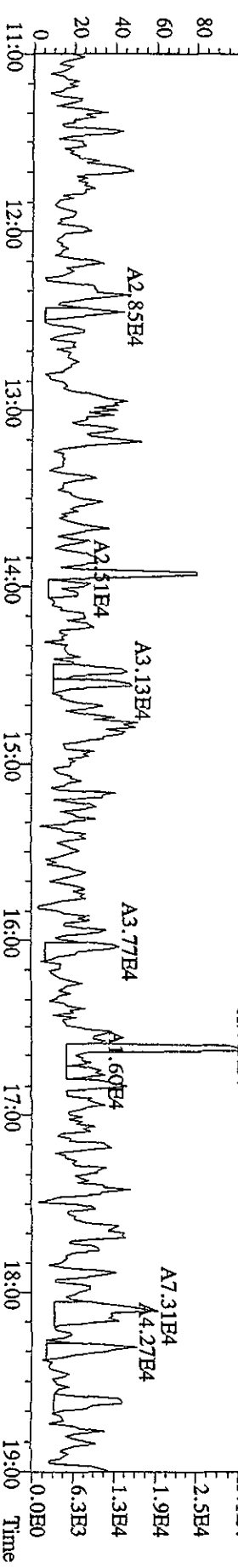
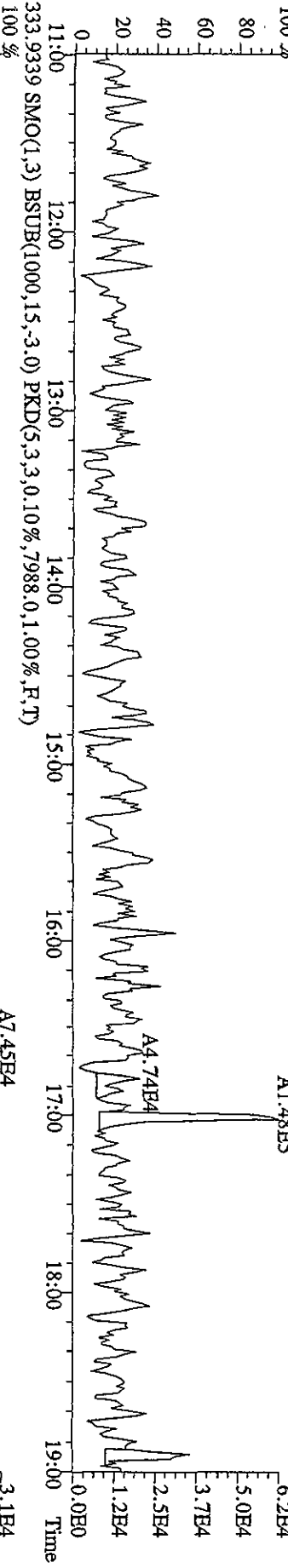
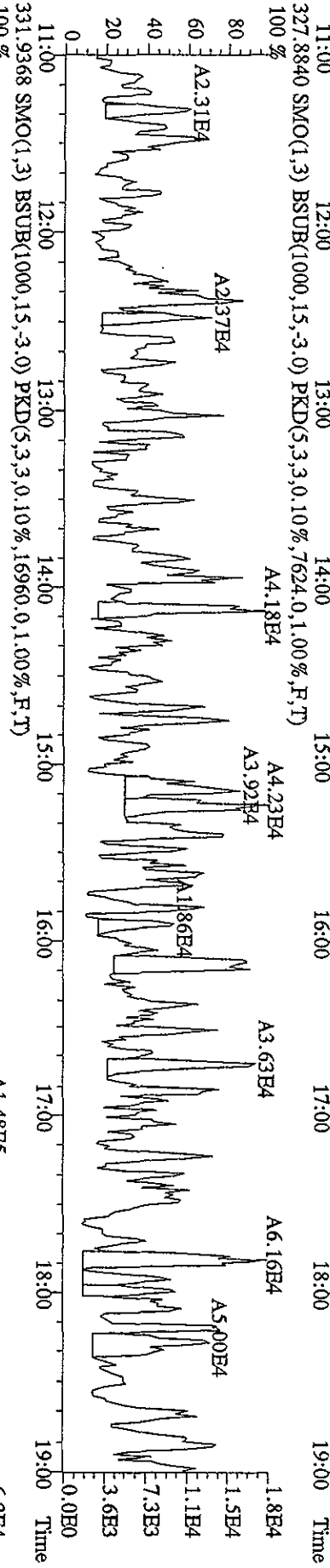
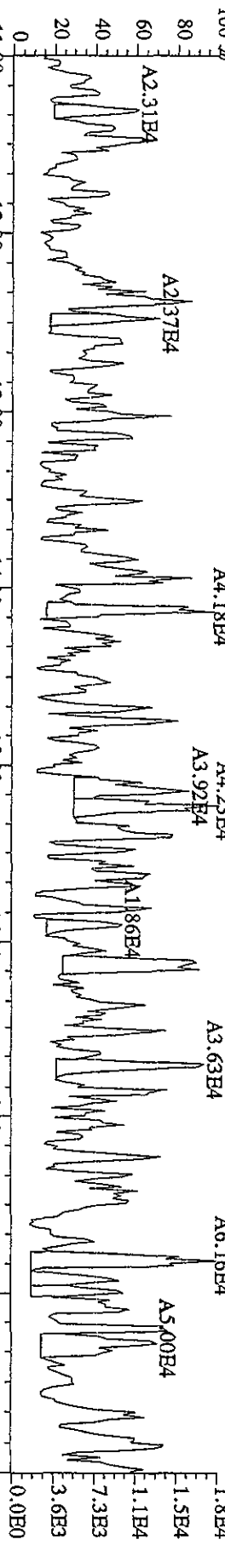
File:29SE105D2 #1-1242 Acq:29-SEP-2010 09:06:27 GC BI+ Voltage SIR 70SE  
 Sample#1 Text:CP0929 :DB-225 CFSM 3732-06 Exp:DB225RES  
 303.9016 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5320.0,1.00%,F,T)  
 100%



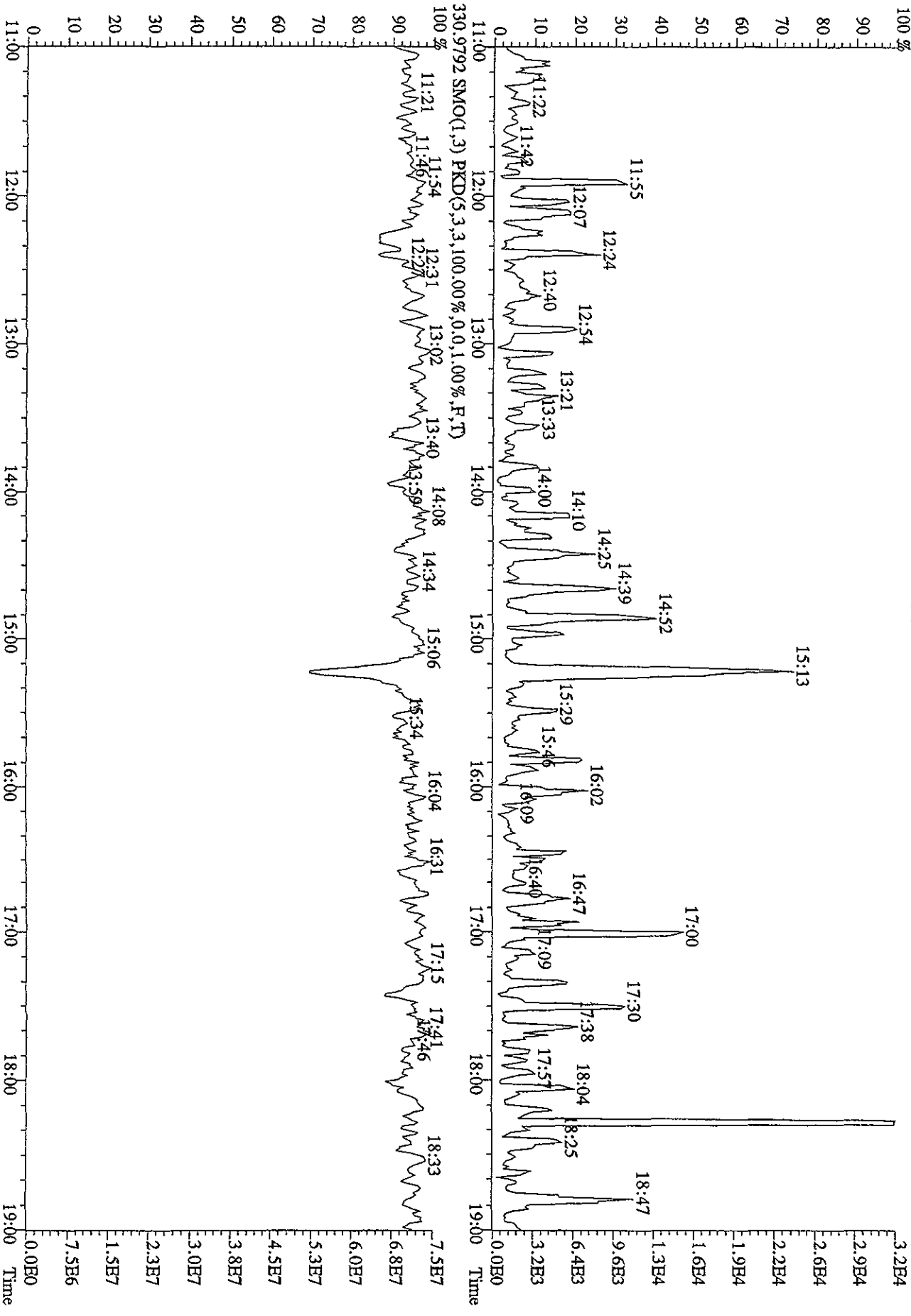
File:29SBI05D2 #1-1242 Acq:29-SEP-2010 09:06:27 GC HI+ Voltage SIR 70SE  
 Sample#1 Text:CP0929 :DB-225 CPISM 3732-06 Exp:DB225RES  
 319.8965 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4416,0.1,00%,F,T)  
 100 %



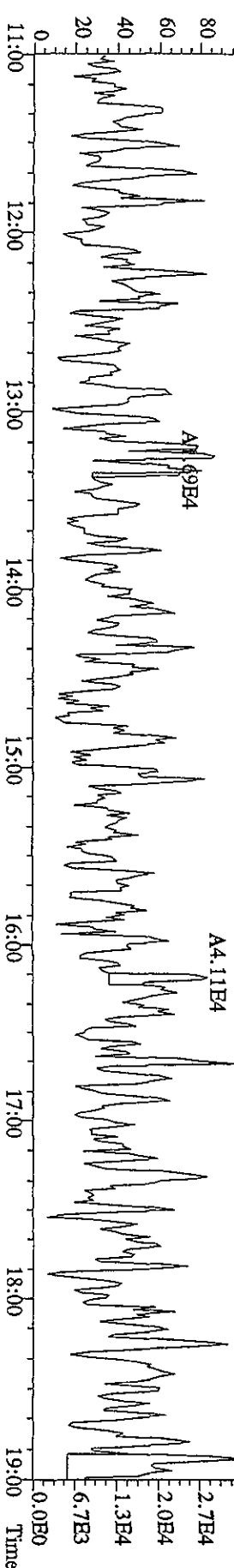
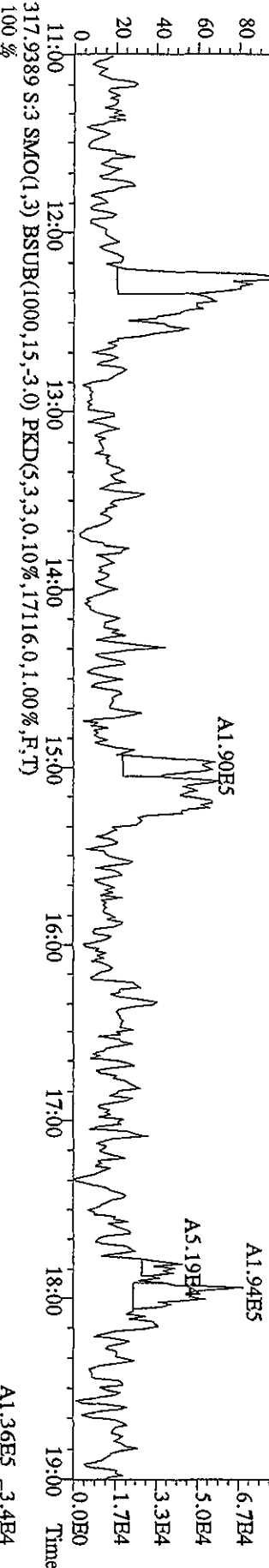
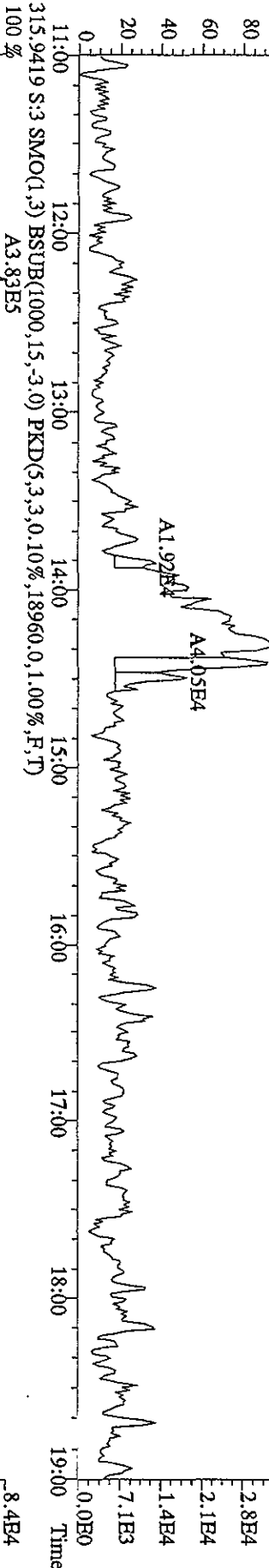
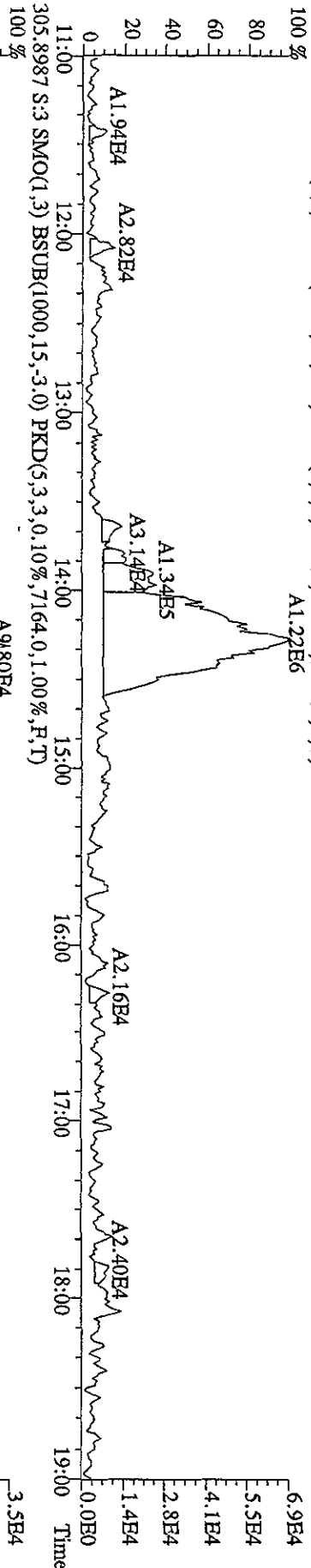
File: 29SE105D2 #1-1242 Acq: 29-SEP-2010 09:06:27 GC BI+ Voltage SIR 70SE  
 Sample#1 Text: CP0929 :DB-225 CP5M 3732-06 Exp: DB225RES  
 327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7624.0,1.00%,F,T)



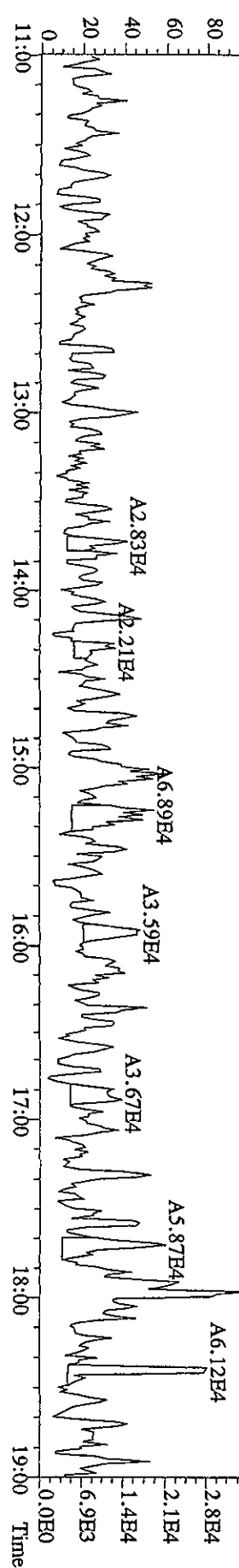
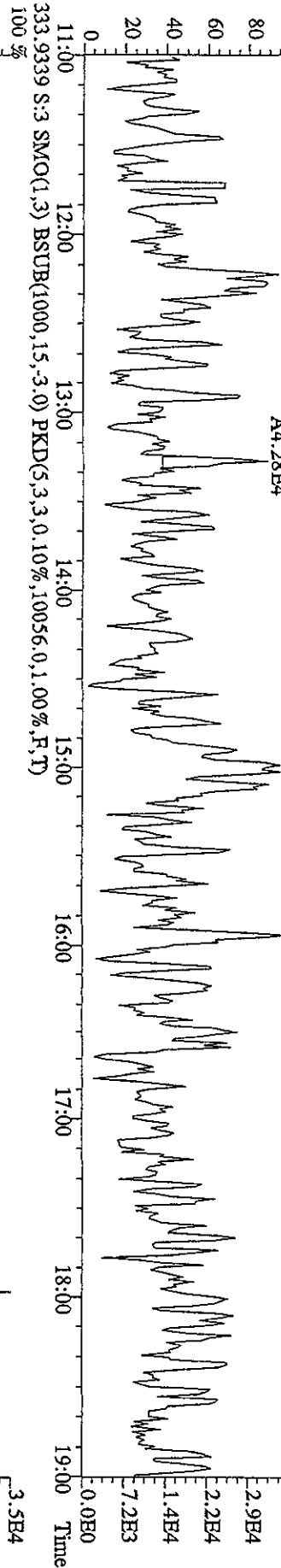
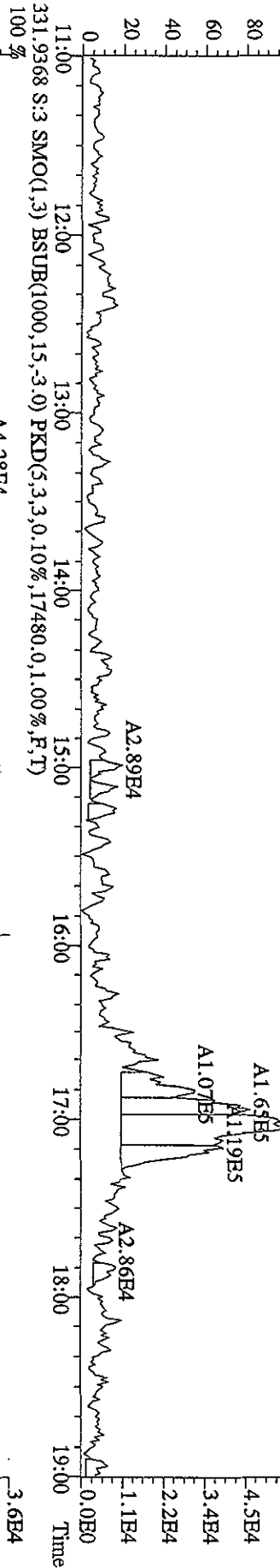
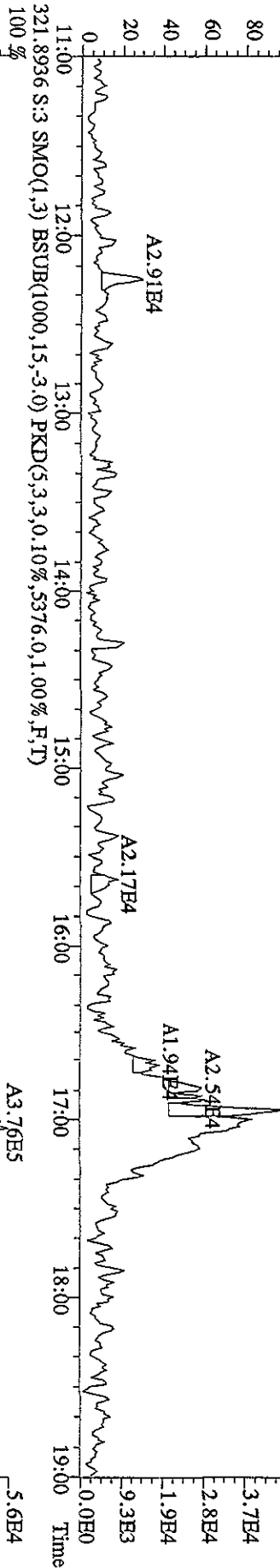
File: 29SE105D2 #1-1242 Acq: 29-SEP-2010 09:06:27 GC EI+ Voltage SIR 70SE  
 Sample#1 Text: CP0929 :DB-225 CP5M 3732-06 Exp: DB225RES  
 375.8364 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1804.0,1.00%,F,T)



File:29SEI05D2 #1-1242 Acq:29-SEP-2010 10:18:43 GC EI+ Voltage SIR 70SE  
 Sample#3 Text:SB0929 :Solvent Blank C-14 Exp:DB25RBS  
 303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5660.0,1.00%,F,T)



File: 29SBI05D2 #1-1242 Acq: 29-SEP-2010 10:18:43 GC FI+ Voltage SDR 70SE  
 Sample#3 Text: SB0929 : Solvent Blank C-14 Exp: DB225RES  
 319.8965 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5224.0,1.00%,F,T)  
 100%

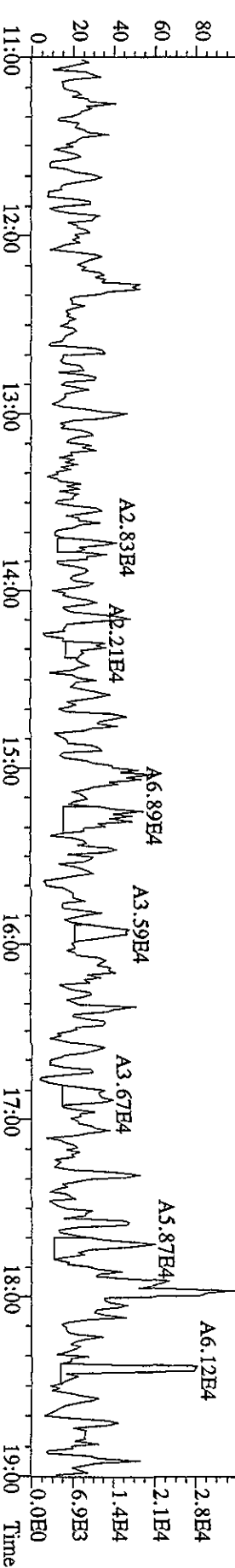
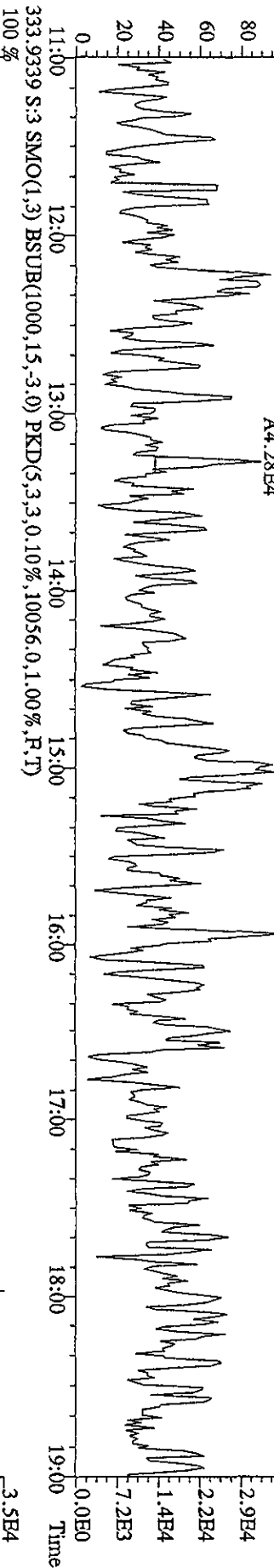
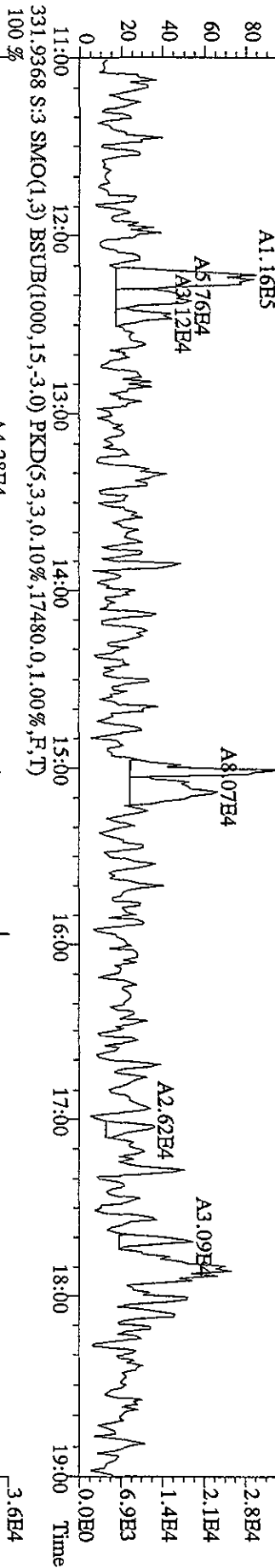
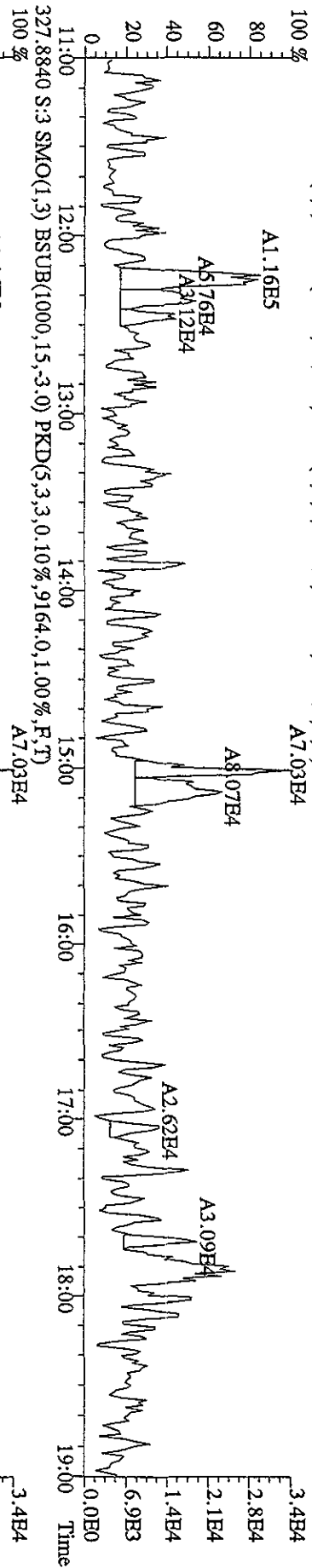


File:29SHE105D2 #1-1242 Acq:29-SRP-2010 10:18:43 GC HI+ Voltage SIR 70SE

Sample#3 Text:SB0929 :Solvent Blank C-14 Exp:DB25RES

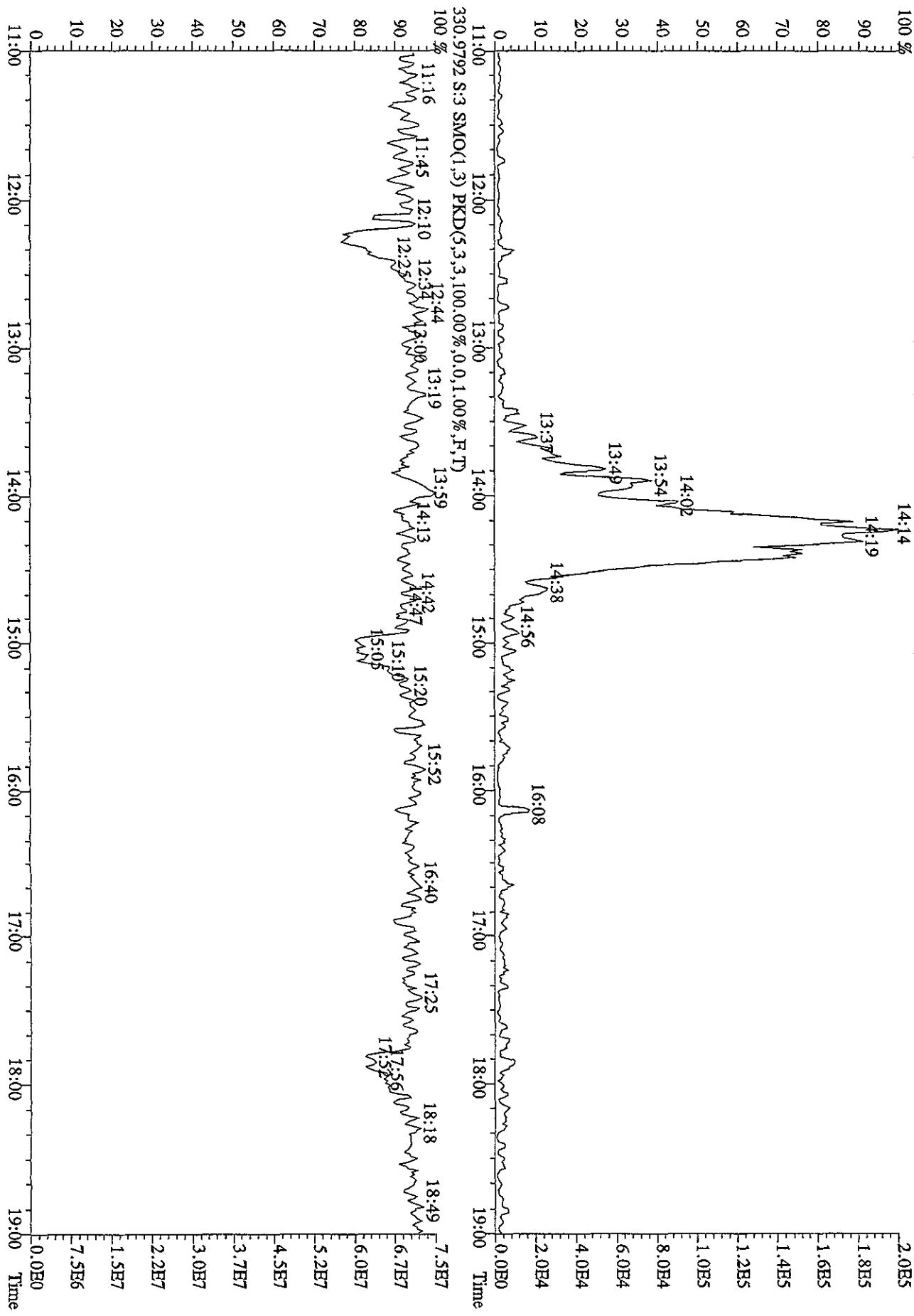
327.8840 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,9164,0,1.00%,F,T)

100%

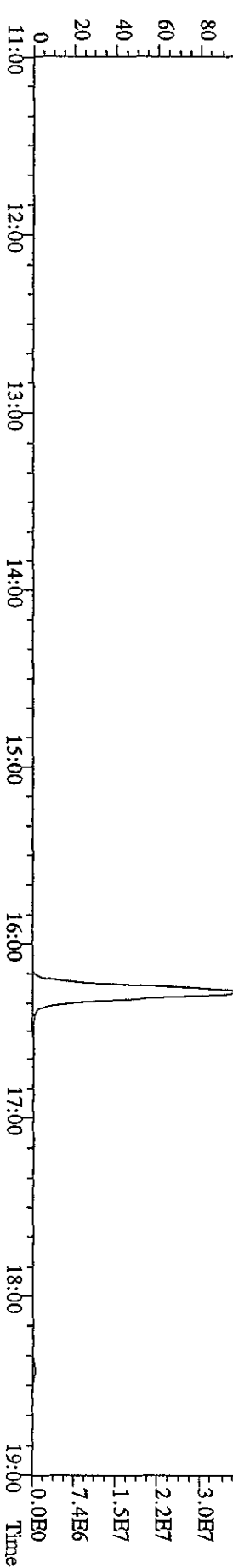
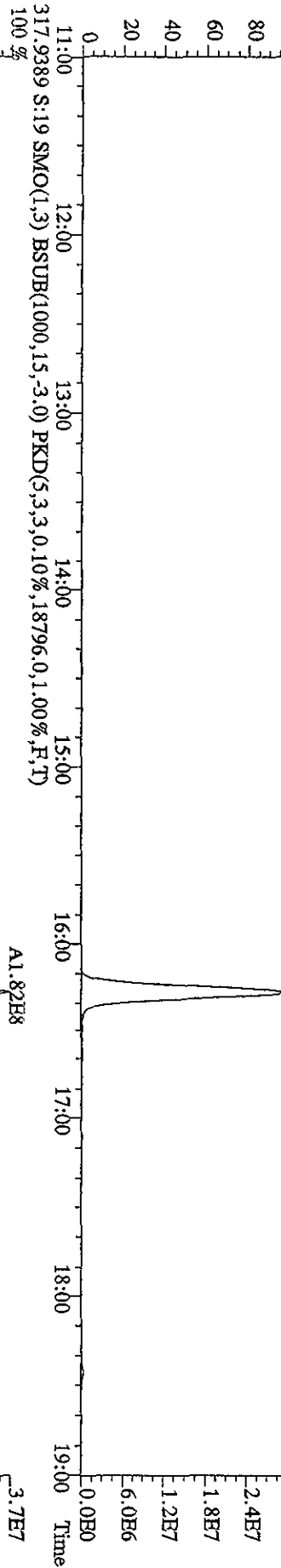
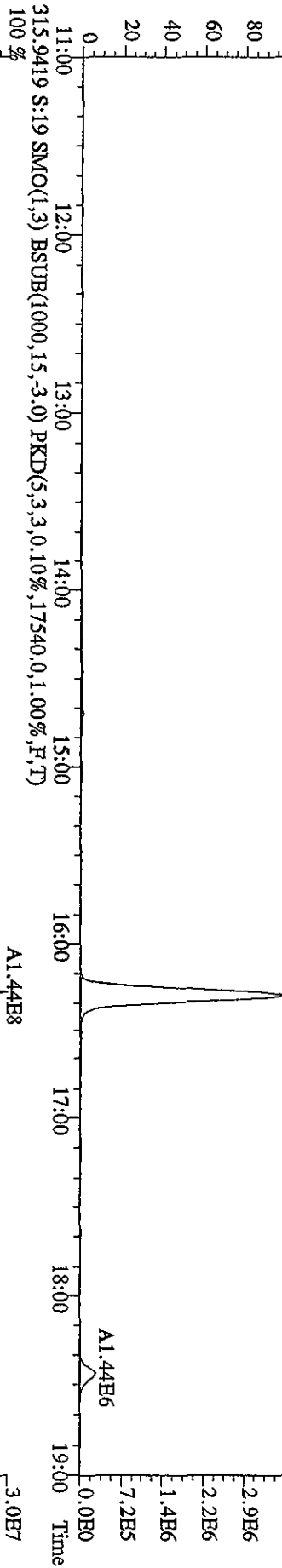
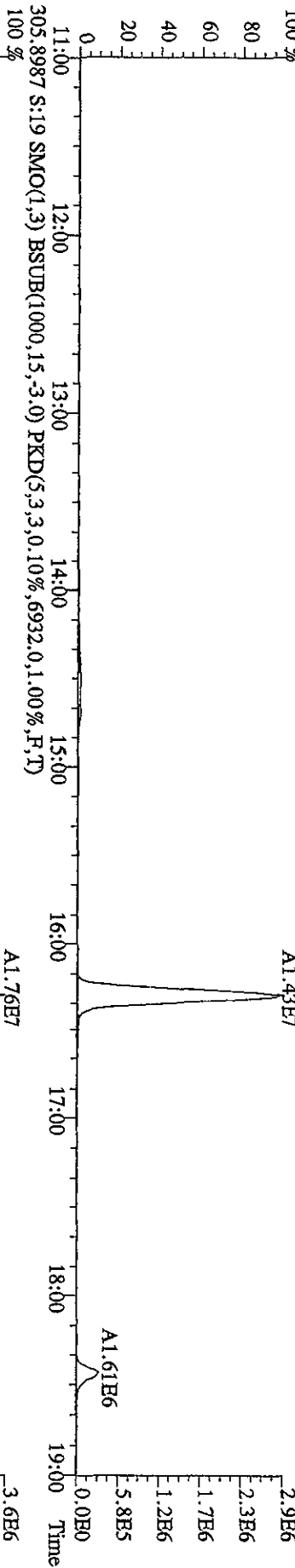




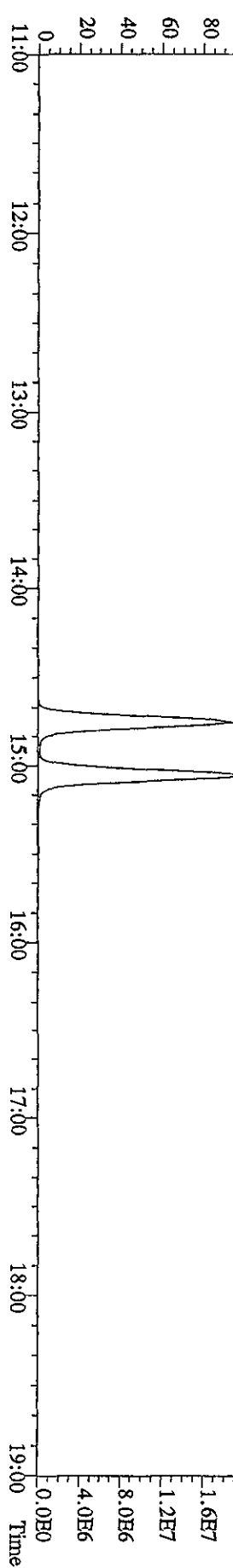
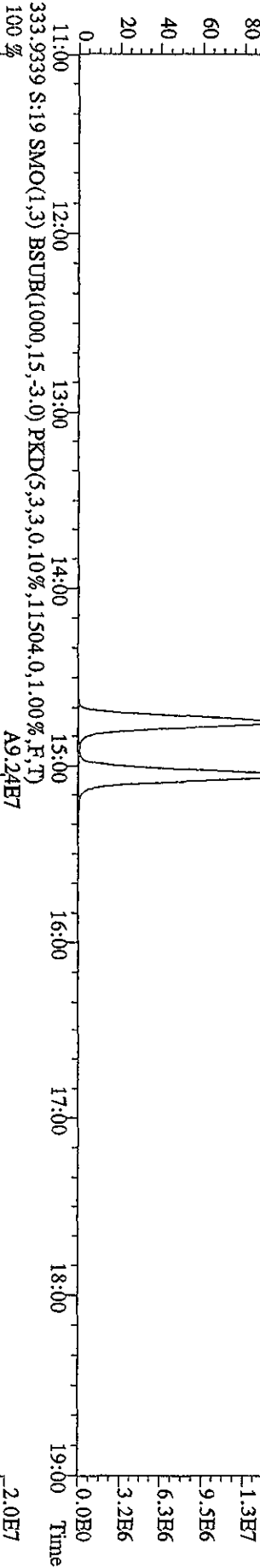
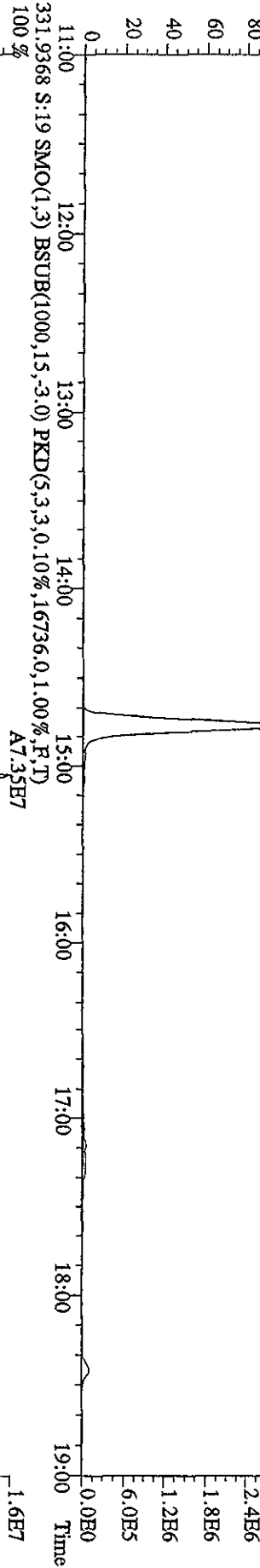
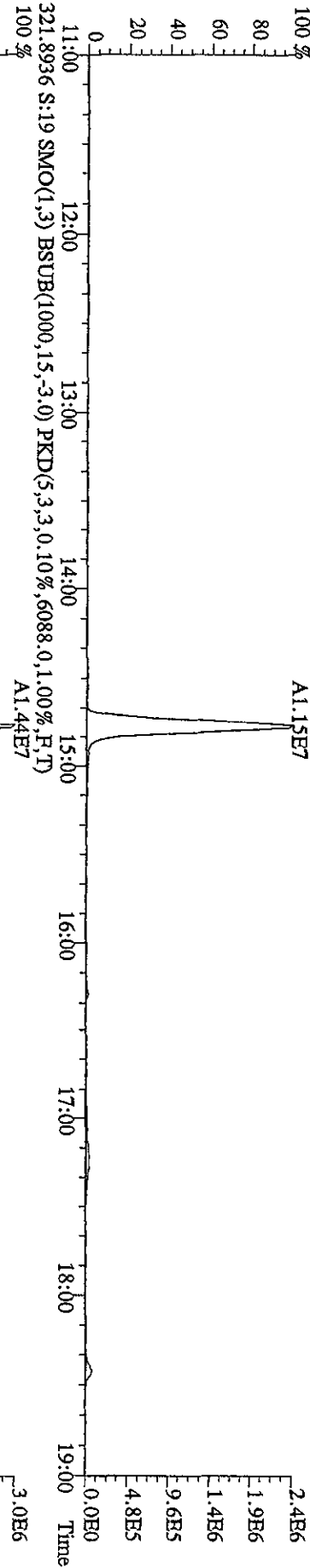
File: 29SE105D2 #1-1242 Acq: 29-SEP-2010 10:18:43 GC EI+ Voltage SIR 70SE  
 Sample#3 Text: SB0929 : Solvent Blank C-14 Exp: DB225RBS  
 375.8364 S:3 SMO(1,3) BSTUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100%



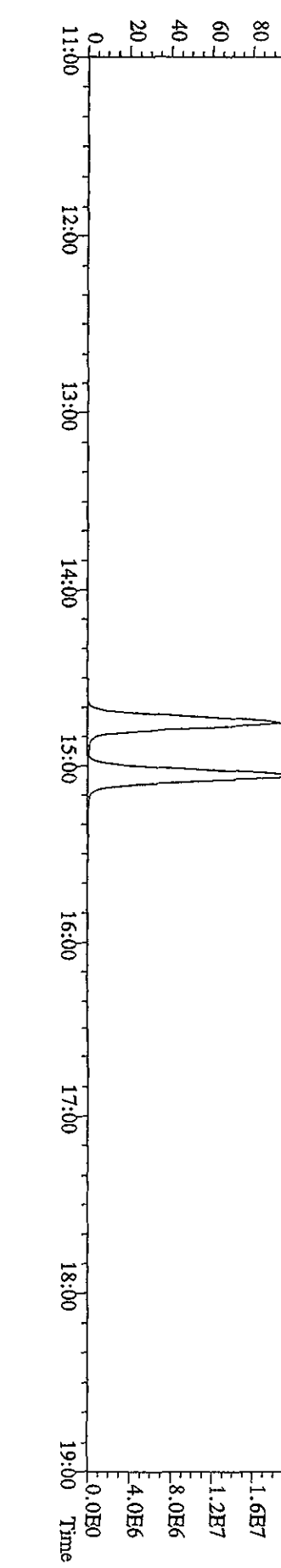
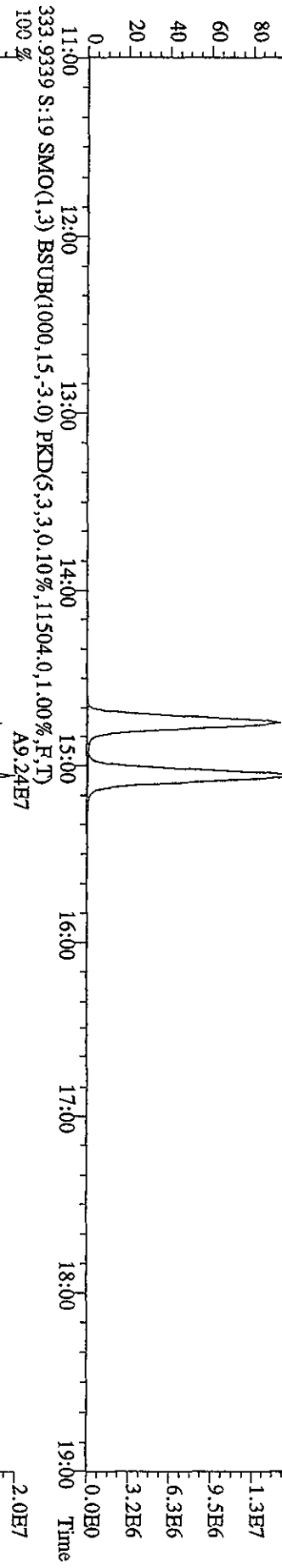
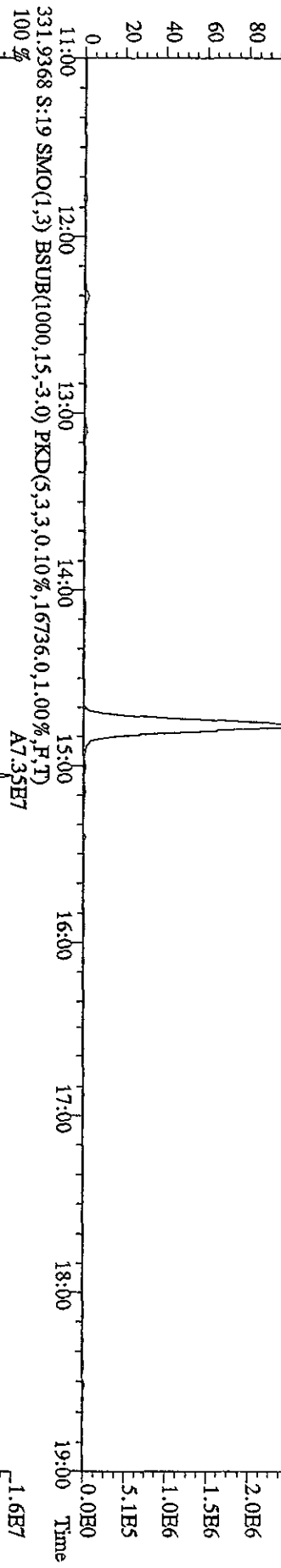
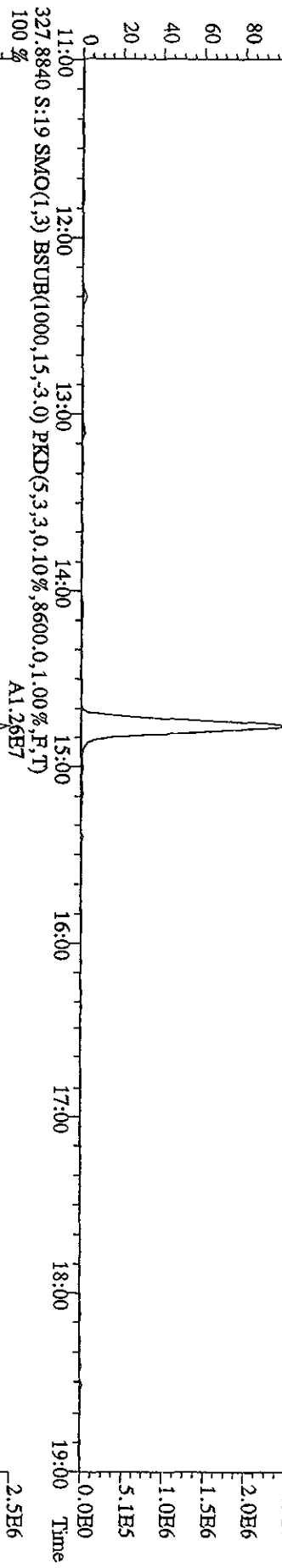
File:29SEI05D2 #1-1242 Acq:29-SEP-2010 19:57:25 GC FI + Voltage SIR 70SE  
 Sample#19 Text:ST0929A :CS3 10DXN426 Exp:DB225RES  
 303.9016 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4620,0,1.00%,F,T)  
 100 %



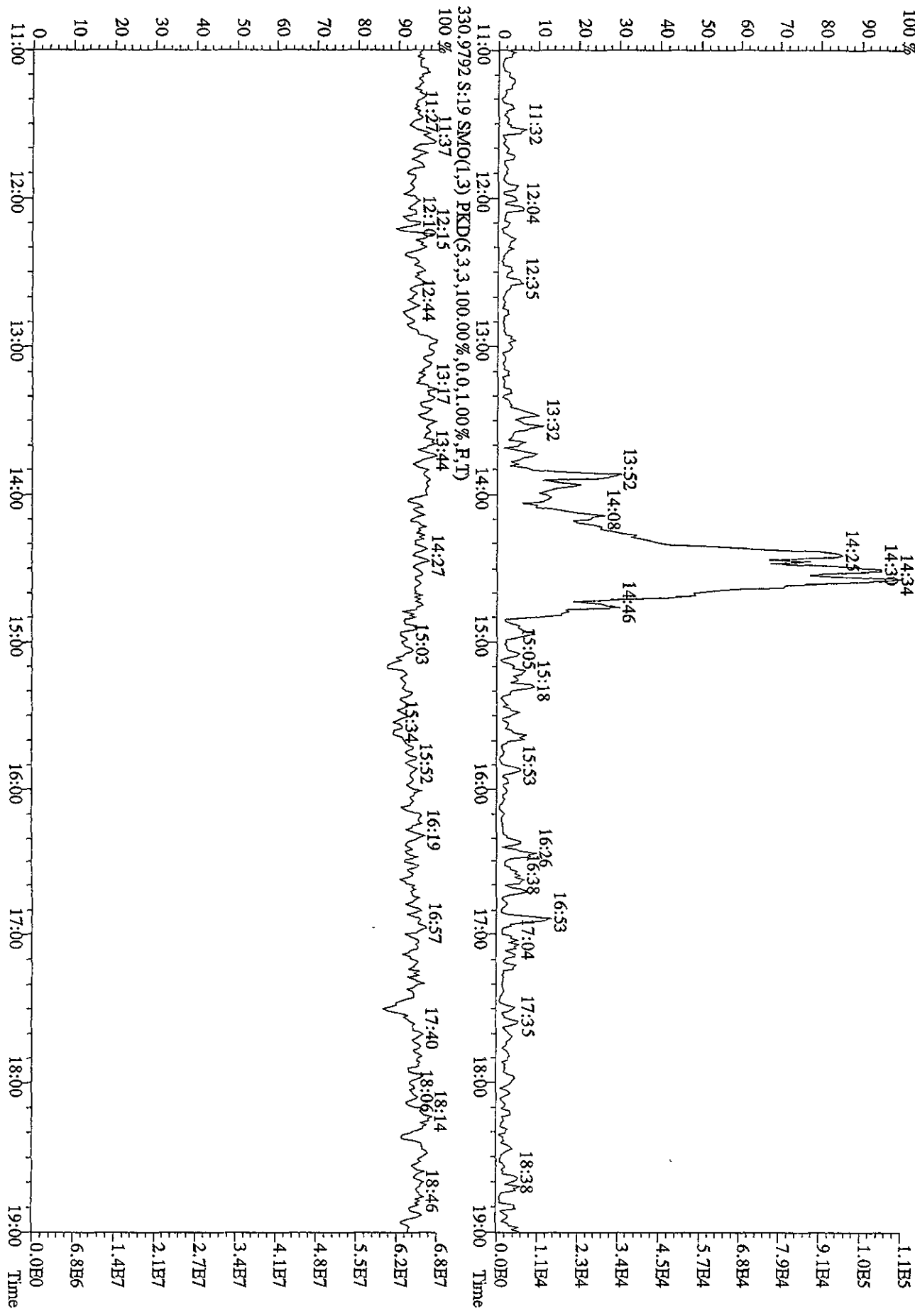
File:29SIB105D2 #1-1242 Acq:29-SEP-2010 19:57:25 GC.HI+ Voltage SIR 70SB  
 Sample#19 Text:ST0929A :CS3 10DXN426 Exp:DB225RES  
 319.8965 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5392.0,1.00%,F,T)  
 100% A1.15E7



File:29SEI105D2 #1-1242 Acq:29-SEP-2010 19:57:25 GC HI+ Voltage SIR 70SB  
 Sample#19 Text:ST0929A :CS3 10DXN426 Exp:DB225RES  
 327.8840 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8600.0,1.00%,F,T)  
 100% A1.26E7



File: 29SBI05D2 #1-1242 Acq: 29-SEP-2010 19:57:25 GC.HI+ Voltage SIR 70SB  
 Sample#19 Text: ST0929A :CS3 10DDXN426 Exp: DB225RBS  
 375.8364 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2708,0.1,0.00%,F,T)



# **Initial Calibration**

***Includes (as applicable):***

***runlog***

***standard raw data***

***statistical summary***

***ms tune data***

## Initial Calibration Checklist Dioxin Methods

ICAL ID (8290, 1613, TO9, 23, 0023A, TETRA) 091410105

Method ID 8290, 1613B, TO9, 23, 0023A Date Scanned 3/16

Column ID DB5 Instrument ID 105

STD ID's ST0914(B, A, -, D, C) STD Solution 10DXN (342, 335, 426, 337, 329)

GC Program DCDDMG Multiplier Setting 270

Analyzed By M.G. Date Analyzed 9/14/10

Prepared By M.G. Date Prepared 9/15/10

Reviewed By JRB Date Reviewed 9/15/10

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

COMMENTS:

13C-1,2,3,4-TCDD 17:59  
13C-1,2,3,7,8,9-HxCDD 30:57

\*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: 14SE101D5 Analyte: TO9 Cal: TO90914101D5

ST0914B :CS1 10DXN342 ST0914A :CS2 10DXN335 ST0914 :CS3 10DXN426  
 ST0914D :CS4 10DXN337 ST0914C :CS5 10DXN339

14SE101D5 14SE101D5 14SE101D5 14SE101D5 14SE101D5

Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-

13C-2,3,7,8-TCDF	1.563	0.037	2.40 %	1.57	1.61	1.55	1.57	1.51
2,3,7,8-TCDF	0.984	0.116	11.8 %	0.90	0.82	1.05	1.08	1.07
Total TCDF	0.984	0.116	11.8 %	0.90	0.82	1.05	1.08	1.07

13C-2,3,7,8-TCDD	0.921	0.041	4.42 %	0.95	0.94	0.96	0.87	0.88
2,3,7,8-TCDD	1.032	0.111	10.8 %	0.91	0.92	1.06	1.14	1.13
Total TCDD	1.032	0.111	10.8 %	0.91	0.92	1.06	1.14	1.13

37Cl-2,3,7,8-TCDD	1.226	0.171	14.0 %	1.03	1.10	1.20	1.37	1.43
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13C-1,2,3,7,8-PeCDF	1.053	0.139	13.2 %	1.15	1.20	1.10	0.96	0.86
1,2,3,7,8-PeCDF	1.092	0.151	13.8 %	0.89	0.97	1.22	1.19	1.19
2,3,4,7,8-PeCDF	1.018	0.140	13.8 %	0.82	0.92	1.14	1.10	1.11
Total F2 PeCDF	1.055	0.145	13.8 %	0.85	0.95	1.18	1.15	1.15
Total F1 PeCDF	1.055	0.145	13.8 %	0.85	0.95	1.18	1.15	1.15

13C-1,2,3,7,8-PeCDD	0.561	0.085	15.1 %	0.61	0.65	0.59	0.51	0.44
1,2,3,7,8-PeCDD	1.070	0.156	14.6 %	0.89	0.92	1.16	1.16	1.22
Total PeCDD	1.070	0.156	14.6 %	0.89	0.92	1.16	1.16	1.22

13C-1,2,3,7,8-HxCDD	-	-	- %	-	-	-	-	-
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13C-1,2,3,4,7,8-HxCDF	0.991	0.061	6.19 %	1.00	1.05	1.00	1.01	0.89
1,2,3,4,7,8-HxCDF	1.261	0.122	9.70 %	1.11	1.21	1.40	1.38	1.20
1,2,3,6,7,8-HxCDF	1.531	0.150	9.79 %	1.33	1.47	1.58	1.53	1.74
2,3,4,6,7,8-HxCDF	1.407	0.159	11.3 %	1.20	1.29	1.52	1.43	1.59
1,2,3,7,8,9-HxCDF	1.396	0.174	12.5 %	1.16	1.30	1.53	1.41	1.58
Total HxCDF	1.399	0.137	9.83 %	1.20	1.32	1.51	1.44	1.53

13C-1,2,3,6,7,8-HxCDD	0.739	0.034	4.62 %	0.75	0.75	0.73	0.69	0.78
1,2,3,4,7,8-HxCDD	1.120	0.159	14.2 %	0.89	1.05	1.25	1.28	1.13



1,2,3,6,7,8-HxCDD	1.141	0.145	12.7	%	0.94	1.04	1.25	1.26	1.22
1,2,3,7,8,9-HxCDD	1.354	0.182	13.4	%	1.14	1.23	1.58	1.49	1.32
Total HxCDD	1.205	0.158	13.1	%	0.99	1.11	1.36	1.35	1.22
1,2,3,4,6,7,8-HpCDF	0.956	0.098	10.2	%	1.05	1.07	0.89	0.86	0.91
1,2,3,4,6,7,8-HpCDD	1.408	0.193	13.7	%	1.12	1.32	1.61	1.51	1.48
1,2,3,4,7,8,9-HpCDF	1.236	0.121	9.80	%	1.06	1.17	1.36	1.28	1.31
Total HpCDF	1.322	0.157	11.9	%	1.09	1.24	1.49	1.39	1.40
1,2,3,4,6,7,8-HpCDD	0.712	0.085	11.9	%	0.78	0.82	0.67	0.63	0.66
1,2,3,4,6,7,8-HpCDD	1.134	0.139	12.3	%	0.94	1.03	1.26	1.21	1.23
Total HpCDD	1.134	0.139	12.3	%	0.94	1.03	1.26	1.21	1.23
1,2,3,4,6,7,8-HpCDD	0.353	0.054	15.4	%	0.40	0.42	0.32	0.29	0.34
OCDF	2.118	0.323	15.3	%	1.63	1.95	2.36	2.29	2.36
OCDD	1.371	0.158	11.5	%	1.17	1.23	1.52	1.47	1.47

Run #1    Filename 14SE101D5    S: 4    I: 1  
 Acquired: 14-SEP-10 12:45:23    Processed: 14-SEP-10 15:11:08  
 Run: 14SE101D5    Analyte: TO9    Cal: TO90914101D5

Comments:

Sample text: ST0914B :CS1 10DXN342

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	217757500	0.82 y	18:02	-	100.00	n
13C-2,3,7,8-TCDF	342526000	0.83 y	17:29	1.57	100.00	n
2,3,7,8-TCDF	1544346	0.86 y	17:30	0.90	0.50	n
Total TCDF	-	- n	-	0.90	0.50	n
13C-2,3,7,8-TCDD	206632500	0.81 y	18:13	0.95	100.00	n
2,3,7,8-TCDD	942260	0.87 y	18:15	0.91	0.50	n
Total TCDD	-	- n	-	0.91	0.50	n
37Cl-2,3,7,8-TCDD	1067370	1.00 y	18:14	1.03	0.50	n
13C-1,2,3,7,8-PeCDF	249582300	1.61 y	22:42	1.15	100.00	n
1,2,3,7,8-PeCDF	5547560	1.72 y	22:44	0.89	2.50	n
2,3,4,7,8-PeCDF	5105770	1.60 y	24:07	0.82	2.50	n
Total F2 PeCDF	-	- n	-	0.85	5.00	n
Total F1 PeCDF	-	- n	-	0.85	5.00	n
13C-1,2,3,7,8-PeCDD	132054700	1.72 y	24:49	0.61	100.00	n
1,2,3,7,8-PeCDD	2923000	1.50 y	24:51	0.89	2.50	n
Total PeCDD	-	- n	-	0.89	2.50	n
13C-1,2,3,7,8,9-HxCDD	227515900	1.32 y	30:59	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	228486500	0.53 y	29:44	1.00	100.00	n
1,2,3,4,7,8-HxCDF	6361060	1.36 y	29:45	1.11	2.50	n
1,2,3,6,7,8-HxCDF	7610610	1.22 y	29:53	1.33	2.50	n
2,3,4,6,7,8-HxCDF	6873540	1.31 y	30:29	1.20	2.50	n
1,2,3,7,8,9-HxCDF	6602240	1.19 y	31:10	1.16	2.50	n
Total HxCDF	-	- n	-	1.20	10.00	n
13C-1,2,3,6,7,8-HxCDD	170360900	1.31 y	30:42	0.75	100.00	n
1,2,3,4,7,8-HxCDD	3797170	1.27 y	30:38	0.89	2.50	n
1,2,3,6,7,8-HxCDD	3982690	1.30 y	30:43	0.94	2.50	n
1,2,3,7,8,9-HxCDD	4863240	1.28 y	31:00	1.14	2.50	n
Total HxCDD	-	- n	-	0.99	7.50	n
13C-1,2,3,4,6,7,8-HpCDF	239354800	0.46 y	32:35	1.05	100.00	n
1,2,3,4,6,7,8-HpCDF	6687110	1.10 y	32:36	1.12	2.50	n
1,2,3,4,7,8,9-HpCDF	6339150	1.04 y	33:48	1.06	2.50	n
Total HpCDF	-	- n	-	1.09	5.00	n
13C-1,2,3,4,6,7,8-HpCDD	177392900	1.08 y	33:27	0.78	100.00	n
1,2,3,4,6,7,8-HpCDD	4179990	1.06 y	33:28	0.94	2.50	n
Total HpCDD	-	- n	-	0.94	2.50	n
13C-OCDD	182068900	0.94 y	36:04	0.40	200.00	n
OCDF	7410000	0.80 y	36:11	1.63	5.00	n

OCDD 5332880 0.86 y 36:05 1.17 5.00 n

Run #2    Filename 14SE101D5    S: 3    I: 1  
 Acquired: 14-SEP-10 12:02:26    Processed: 14-SEP-10 15:11:08  
 Run: 14SE101D5    Analyte: TO9    Cal: TO90914101D5

## Comments:

Sample text: ST0914A :CS2 10DXN335

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	289623000	0.82 y	18:03	-	100.00	n
13C-2,3,7,8-TCDF	465726000	0.80 y	17:30	1.61	100.00	n
2,3,7,8-TCDF	7633250	0.73 y	17:30	0.82	2.00	n
Total TCDF	-	- n	-	0.82	2.00	n
13C-2,3,7,8-TCDD	271341000	0.81 y	18:14	0.94	100.00	n
2,3,7,8-TCDD	4973300	0.81 y	18:15	0.92	2.00	n
Total TCDD	-	- n	-	0.92	2.00	n
37Cl-2,3,7,8-TCDD	5944440	1.00 y	18:15	1.10	2.00	n
13C-1,2,3,7,8-PeCDF	347627000	1.63 y	22:42	1.20	100.00	n
1,2,3,7,8-PeCDF	33792700	1.62 y	22:44	0.97	10.00	n
2,3,4,7,8-PeCDF	32045800	1.61 y	24:06	0.92	10.00	n
Total F2 PeCDF	-	- n	-	0.95	20.00	n
Total F1 PeCDF	-	- n	-	0.95	20.00	n
13C-1,2,3,7,8-PeCDD	189230600	1.73 y	24:49	0.65	100.00	n
1,2,3,7,8-PeCDD	17361110	1.65 y	24:50	0.92	10.00	n
Total PeCDD	-	- n	-	0.92	10.00	n
13C-1,2,3,7,8,9-HxCDD	306085000	1.26 y	30:59	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	321465000	0.53 y	29:44	1.05	100.00	n
1,2,3,4,7,8-HxCDF	38950600	1.28 y	29:45	1.21	10.00	n
1,2,3,6,7,8-HxCDF	47402900	1.28 y	29:53	1.47	10.00	n
2,3,4,6,7,8-HxCDF	41568700	1.27 y	30:28	1.29	10.00	n
1,2,3,7,8,9-HxCDF	41849700	1.28 y	31:10	1.30	10.00	n
Total HxCDF	-	- n	-	1.32	40.00	n
13C-1,2,3,6,7,8-HxCDD	229169000	1.25 y	30:41	0.75	100.00	n
1,2,3,4,7,8-HxCDD	24039000	1.31 y	30:37	1.05	10.00	n
1,2,3,6,7,8-HxCDD	23921800	1.34 y	30:42	1.04	10.00	n
1,2,3,7,8,9-HxCDD	28230500	1.28 y	30:59	1.23	10.00	n
Total HxCDD	-	- n	-	1.11	30.00	n
13C-1,2,3,4,6,7,8-HpCDF	327683000	0.45 y	32:35	1.07	100.00	n
1,2,3,4,6,7,8-HpCDF	43176900	1.03 y	32:35	1.32	10.00	n
1,2,3,4,7,8,9-HpCDF	38352900	1.04 y	33:47	1.17	10.00	n
Total HpCDF	-	- n	-	1.24	20.00	n
13C-1,2,3,4,6,7,8-HpCDD	252214000	1.08 y	33:27	0.82	100.00	n
1,2,3,4,6,7,8-HpCDD	26020700	1.06 y	33:28	1.03	10.00	n
Total HpCDD	-	- n	-	1.03	10.00	n
13C-OCDD	254330000	0.93 y	36:04	0.42	200.00	n
OCDF	49492200	0.88 y	36:11	1.95	20.00	n
OCDD	31289700	0.90 y	36:05	1.23	20.00	n

Run #3 Filename 14SE101D5 S: 2 I: 1  
 Acquired: 14-SEP-10 11:17:57 Processed: 14-SEP-10 15:11:09  
 Run: 14SE101D5 Analyte: TO9 Cal: TO90914101D5

## Comments:

Sample text: ST0914 :CS3 10DXN426

Name	Resp	RA	RT	RRF	Mod?
13C-1,2,3,4-TCDD	357156000	0.80 y	17:59	-	100.00 n
13C-2,3,7,8-TCDF	555370000	0.80 y	17:27	1.55	100.00 n
2,3,7,8-TCDF	58577500	0.75 y	17:28	1.05	10.00 n
Total TCDF	-	- n	-	1.05	10.00 n
13C-2,3,7,8-TCDD	343962000	0.82 y	18:11	0.96	100.00 n
2,3,7,8-TCDD	36563200	0.73 y	18:12	1.06	10.00 n
Total TCDD	-	- n	-	1.06	10.00 n
37Cl-2,3,7,8-TCDD	41323600	1.00 y	18:12	1.20	10.00 n
13C-1,2,3,7,8-PeCDF	391403000	1.64 y	22:38	1.10	100.00 n
1,2,3,7,8-PeCDF	238177800	1.63 y	22:40	1.22	50.00 n
2,3,4,7,8-PeCDF	222708000	1.61 y	24:01	1.14	50.00 n
Total F2 PeCDF	-	- n	-	1.18	100.00 n
Total F1 PeCDF	-	- n	-	1.18	100.00 n
13C-1,2,3,7,8-PeCDD	211605800	1.64 y	24:44	0.59	100.00 n
1,2,3,7,8-PeCDD	123197100	1.65 y	24:46	1.16	50.00 n
Total PeCDD	-	- n	-	1.16	50.00 n
13C-1,2,3,7,8,9-HxCDD	357457000	1.27 y	30:57	-	100.00 n
13C-1,2,3,4,7,8-HxCDF	357535000	0.51 y	29:42	1.00	100.00 n
1,2,3,4,7,8-HxCDF	249750000	1.27 y	29:43	1.40	50.00 n
1,2,3,6,7,8-HxCDF	282274000	1.26 y	29:51	1.58	50.00 n
2,3,4,6,7,8-HxCDF	271872000	1.27 y	30:27	1.52	50.00 n
1,2,3,7,8,9-HxCDF	274357000	1.27 y	31:08	1.53	50.00 n
Total HxCDF	-	- n	-	1.51	200.00 n
13C-1,2,3,6,7,8-HxCDD	262329000	1.28 y	30:40	0.73	100.00 n
1,2,3,4,7,8-HxCDD	163952700	1.25 y	30:35	1.25	50.00 n
1,2,3,6,7,8-HxCDD	163357400	1.28 y	30:41	1.25	50.00 n
1,2,3,7,8,9-HxCDD	207869000	1.26 y	30:58	1.58	50.00 n
Total HxCDD	-	- n	-	1.36	150.00 n
13C-1,2,3,4,6,7,8-HpCDF	317477600	0.45 y	32:33	0.89	100.00 n
1,2,3,4,6,7,8-HpCDF	255385000	1.06 y	32:34	1.61	50.00 n
1,2,3,4,7,8,9-HpCDF	216392000	1.05 y	33:46	1.36	50.00 n
Total HpCDF	-	- n	-	1.49	100.00 n
13C-1,2,3,4,6,7,8-HpCDD	240997000	1.09 y	33:25	0.67	100.00 n
1,2,3,4,6,7,8-HpCDD	151444000	1.06 y	33:26	1.26	50.00 n
Total HpCDD	-	- n	-	1.26	50.00 n
13C-OCDD	228085000	0.94 y	36:02	0.32	200.00 n
OCDF	269129000	0.90 y	36:09	2.36	100.00 n
OCDD	173389800	0.91 y	36:03	1.52	100.00 n

Run #4    Filename 14SE101D5    S: 6    I: 1  
 Acquired: 14-SEP-10 14:11:20    Processed: 14-SEP-10 15:11:10  
 Run: 14SE101D5    Analyte: TO9    Cal: TO90914101D5

## Comments:

Sample text: ST0914D :CS4 10DXN337

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	535520000	0.81 y	18:04	-	100.00	n
13C-2,3,7,8-TCDF	842813000	0.80 y	17:32	1.57	100.00	n
2,3,7,8-TCDF	362427000	0.79 y	17:33	1.08	40.00	n
Total TCDF	-	- n	-	1.08	40.00	n
13C-2,3,7,8-TCDD	466344000	0.81 y	18:16	0.87	100.00	n
2,3,7,8-TCDD	212495900	0.79 y	18:17	1.14	40.00	n
Total TCDD	-	- n	-	1.14	40.00	n
37Cl-2,3,7,8-TCDD	256370000	1.00 y	18:17	1.37	40.00	n
13C-1,2,3,7,8-PeCDF	511683000	1.64 y	22:41	0.96	100.00	n
1,2,3,7,8-PeCDF	1219739000	1.58 y	22:43	1.19	200.00	n
2,3,4,7,8-PeCDF	1127043000	1.58 y	24:04	1.10	200.00	n
Total F2 PeCDF	-	- n	-	1.15	400.00	n
Total F1 PeCDF	-	- n	-	1.15	400.00	n
13C-1,2,3,7,8-PeCDD	274657000	1.64 y	24:48	0.51	100.00	n
1,2,3,7,8-PeCDD	638842000	1.59 y	24:49	1.16	200.00	n
Total PeCDD	-	- n	-	1.16	200.00	n
13C-1,2,3,7,8,9-HxCDD	462770000	1.27 y	30:57	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	468583000	0.56 y	29:44	1.01	100.00	n
1,2,3,4,7,8-HxCDF	1292220000	1.25 y	29:45	1.38	200.00	n
1,2,3,6,7,8-HxCDF	1430910000	1.26 y	29:52	1.53	200.00	n
2,3,4,6,7,8-HxCDF	1339583000	1.26 y	30:28	1.43	200.00	n
1,2,3,7,8,9-HxCDF	1316898000	1.27 y	31:10	1.41	200.00	n
Total HxCDF	-	- n	-	1.44	800.00	n
13C-1,2,3,6,7,8-HxCDD	317580000	1.28 y	30:41	0.69	100.00	n
1,2,3,4,7,8-HxCDD	814845000	1.40 y	30:37	1.28	200.00	n
1,2,3,6,7,8-HxCDD	802389000	1.14 y	30:42	1.26	200.00	n
1,2,3,7,8,9-HxCDD	945931000	1.27 y	30:58	1.49	200.00	n
Total HxCDD	-	- n	-	1.35	600.00	n
13C-1,2,3,4,6,7,8-HpCDF	398825000	0.45 y	32:35	0.86	100.00	n
1,2,3,4,6,7,8-HpCDF	1206583000	1.05 y	32:35	1.51	200.00	n
1,2,3,4,7,8,9-HpCDF	1018709000	1.05 y	33:47	1.28	200.00	n
Total HpCDF	-	- n	-	1.39	400.00	n
13C-1,2,3,4,6,7,8-HpCDD	290273000	1.07 y	33:27	0.63	100.00	n
1,2,3,4,6,7,8-HpCDD	700815000	1.06 y	33:28	1.21	200.00	n
Total HpCDD	-	- n	-	1.21	200.00	n
13C-OCDD	265263000	0.94 y	36:03	0.29	200.00	n
OCDF	1216609000	0.91 y	36:11	2.29	400.00	n
OCDD	778765000	0.91 y	36:04	1.47	400.00	n

Run #5    Filename 14SE101D5    S: 5    I: 1  
 Acquired: 14-SEP-10 13:28:23    Processed: 14-SEP-10 15:11:11  
 Run: 14SE101D5    Analyte: TO9    Cal: TO90914101D5

## Comments:

Sample text: ST0914C :CS5 10DXN339

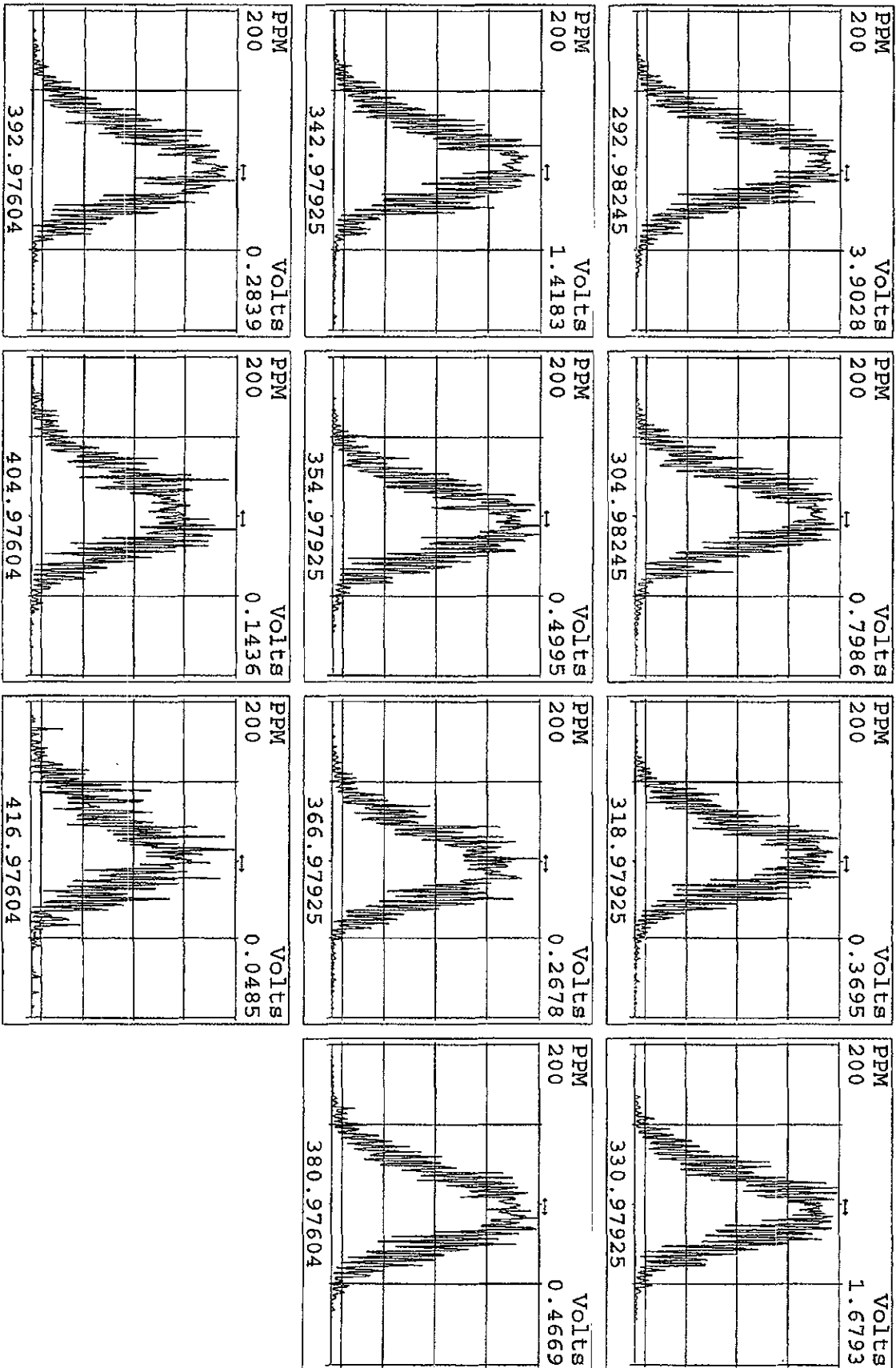
Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	347112000	0.80 y	18:00	-	100.00	n
13C-2,3,7,8-TCDF	522588000	0.81 y	17:27	1.51	100.00	n
2,3,7,8-TCDF	1115977000	0.78 y	17:28	1.07	200.00	n
Total TCDF	-	- n	-	1.07	200.00	n
13C-2,3,7,8-TCDD	307117000	0.80 y	18:12	0.88	100.00	n
2,3,7,8-TCDD	692640000	0.79 y	18:13	1.13	200.00	n
Total TCDD	-	- n	-	1.13	200.00	n
37Cl-2,3,7,8-TCDD	876576000	1.00 y	18:13	1.43	200.00	n
13C-1,2,3,7,8-PeCDF	300248000	1.65 y	22:40	0.86	100.00	n
1,2,3,7,8-PeCDF	3574990000	1.58 y	22:42	1.19	1000.00	n
2,3,4,7,8-PeCDF	3329380000	1.58 y	24:03	1.11	1000.00	n
Total F2 PeCDF	-	- n	-	1.15	2000.00	n
Total F1 PeCDF	-	- n	-	1.15	2000.00	n
13C-1,2,3,7,8-PeCDD	152444200	1.63 y	24:47	0.44	100.00	n
1,2,3,7,8-PeCDD	1862059000	1.60 y	24:49	1.22	1000.00	n
Total PeCDD	-	- n	-	1.22	1000.00	n
13C-1,2,3,7,8,9-HxCDD	287274000	1.27 y	30:58	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	254792000	0.50 y	29:43	0.89	100.00	n
1,2,3,4,7,8-HxCDF	3066580000	1.22 y	29:44	1.20	1000.00	n
1,2,3,6,7,8-HxCDF	4440590000	1.26 y	29:51	1.74	1000.00	n
2,3,4,6,7,8-HxCDF	4051220000	1.25 y	30:28	1.59	1000.00	n
1,2,3,7,8,9-HxCDF	4033520000	1.27 y	31:09	1.58	1000.00	n
Total HxCDF	-	- n	-	1.53	4000.00	n
13C-1,2,3,6,7,8-HxCDD	224019200	1.30 y	30:41	0.78	100.00	n
1,2,3,4,7,8-HxCDD	2521560000	1.25 y	30:36	1.13	1000.00	n
1,2,3,6,7,8-HxCDD	2729310000	1.28 y	30:42	1.22	1000.00	n
1,2,3,7,8,9-HxCDD	2959990000	1.26 y	30:59	1.32	1000.00	n
Total HxCDD	-	- n	-	1.22	3000.00	n
13C-1,2,3,4,6,7,8-HpCDF	260830600	0.46 y	32:34	0.91	100.00	n
1,2,3,4,6,7,8-HpCDF	3870970000	1.04 y	32:35	1.48	1000.00	n
1,2,3,4,7,8,9-HpCDF	3413660000	1.05 y	33:46	1.31	1000.00	n
Total HpCDF	-	- n	-	1.40	2000.00	n
13C-1,2,3,4,6,7,8-HpCDD	188408700	1.09 y	33:26	0.66	100.00	n
1,2,3,4,6,7,8-HpCDD	2324050000	1.07 y	33:27	1.23	1000.00	n
Total HpCDD	-	- n	-	1.23	1000.00	n
13C-OCDD	196611600	0.93 y	36:03	0.34	200.00	n
OCDF	4641040000	0.92 y	36:10	2.36	2000.00	n
OCDD	2881020000	0.92 y	36:03	1.47	2000.00	n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
14SE101D5	1	CP0914	DB-5 CPSM 3732-07				1.00000	
14SE101D5	2	ST0914	CS3 10DXN426				1.00000	
14SE101D5	3	ST0914A	CS2 10DXN335				1.00000	
14SE101D5	4	ST0914B	CS1 10DXN342				1.00000	
14SE101D5	5	ST0914C	CS5 10DXN339				1.00000	
14SE101D5	6	ST0914D	CS4 10DXN337				1.00000	
14SE101D5	7	ST0914E	2nd Source 10DXN340				1.00000	
14SE101D5	8	ST0914F	CS3 10DXN426				1.00000	
14SE101D5	9	ST0914G	CS2 10DXN335				1.00000	
14SE101D5	10	L6HRQ-1-AA	G0I030000-170B	20	8290/1613B	28	10.00000	g
14SE101D5	11	L53H4-1-AD	G0H240520-1MS	20	1613B/SOLID		10.06000	g
14SE101D5	12	L53H4-1-AE	G0H240520-1SD	20	1613B/SOLID		10.23000	g
14SE101D5	13	L58JX-1-AC	G0H270560-1	20	1613B/SOLID	23	10.29000	g
14SE101D5	14	L6HRQ-1-AC	G0I030000-170C	20	8290/1613B	28	10.00000	g
14SE101D5	15	L6HRQ-1-AD	G0I030000-170L	20	8290/1613B		10.00000	g
14SE101D5	16	ST0914H	CS2 10DXN335				1.00000	
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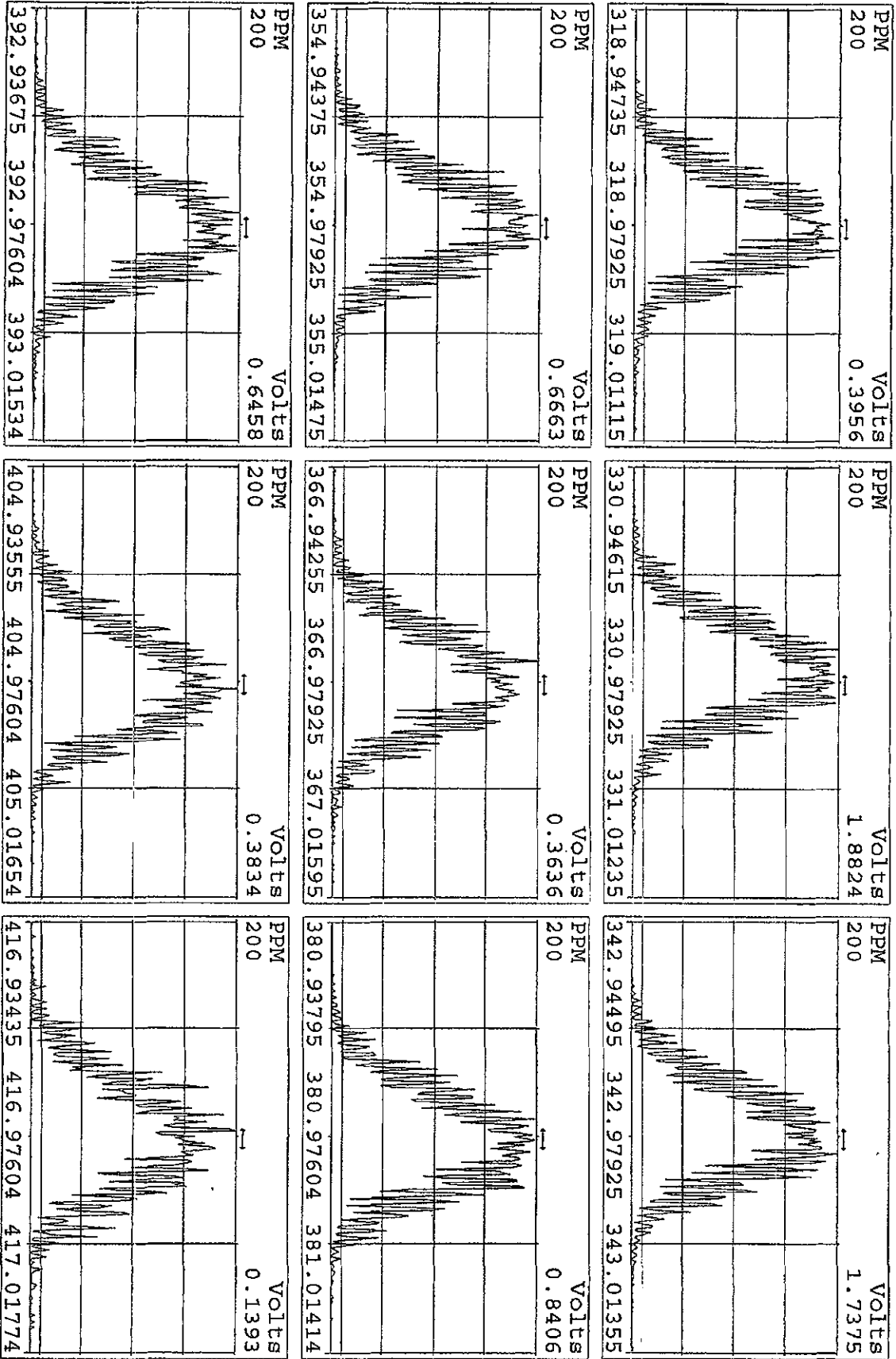
log file reviewed  
9-14-10 AW



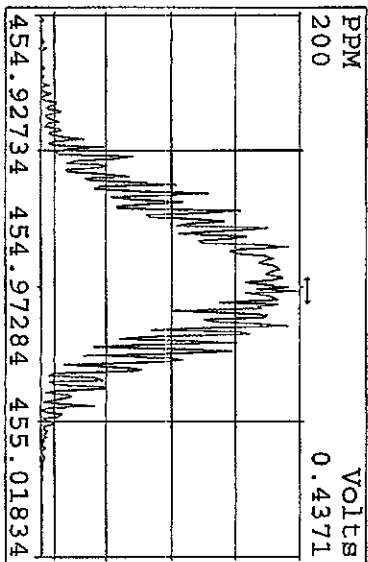
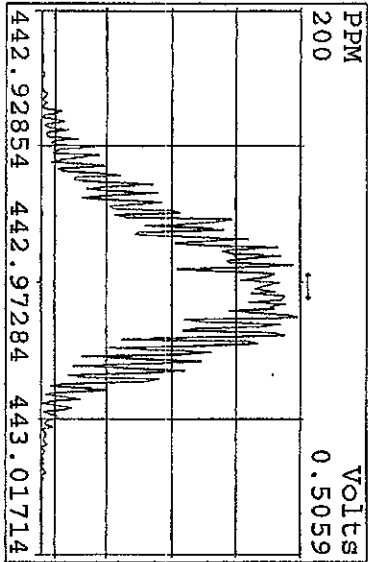
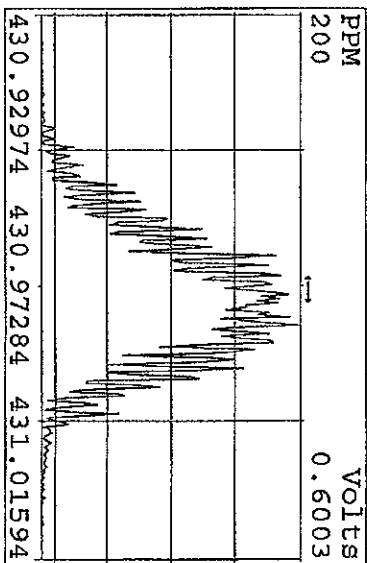
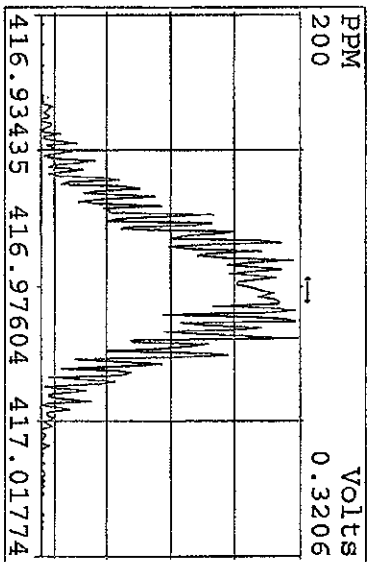
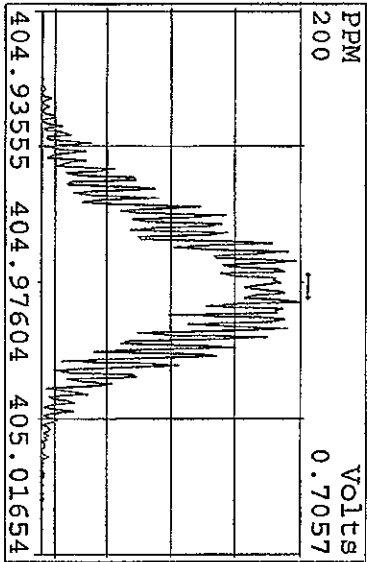
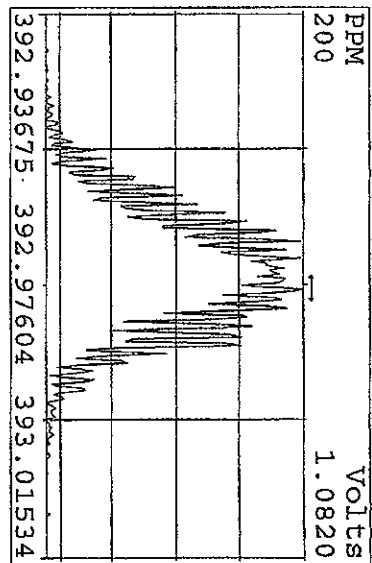
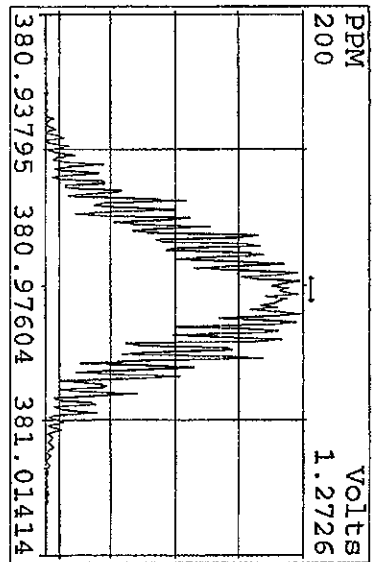
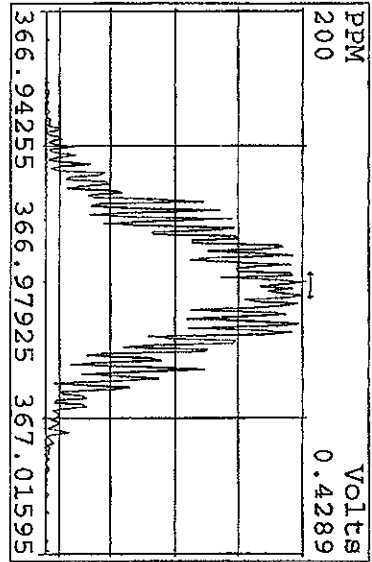
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Experiment:DIOXINRES Function:1 Reference:PFK



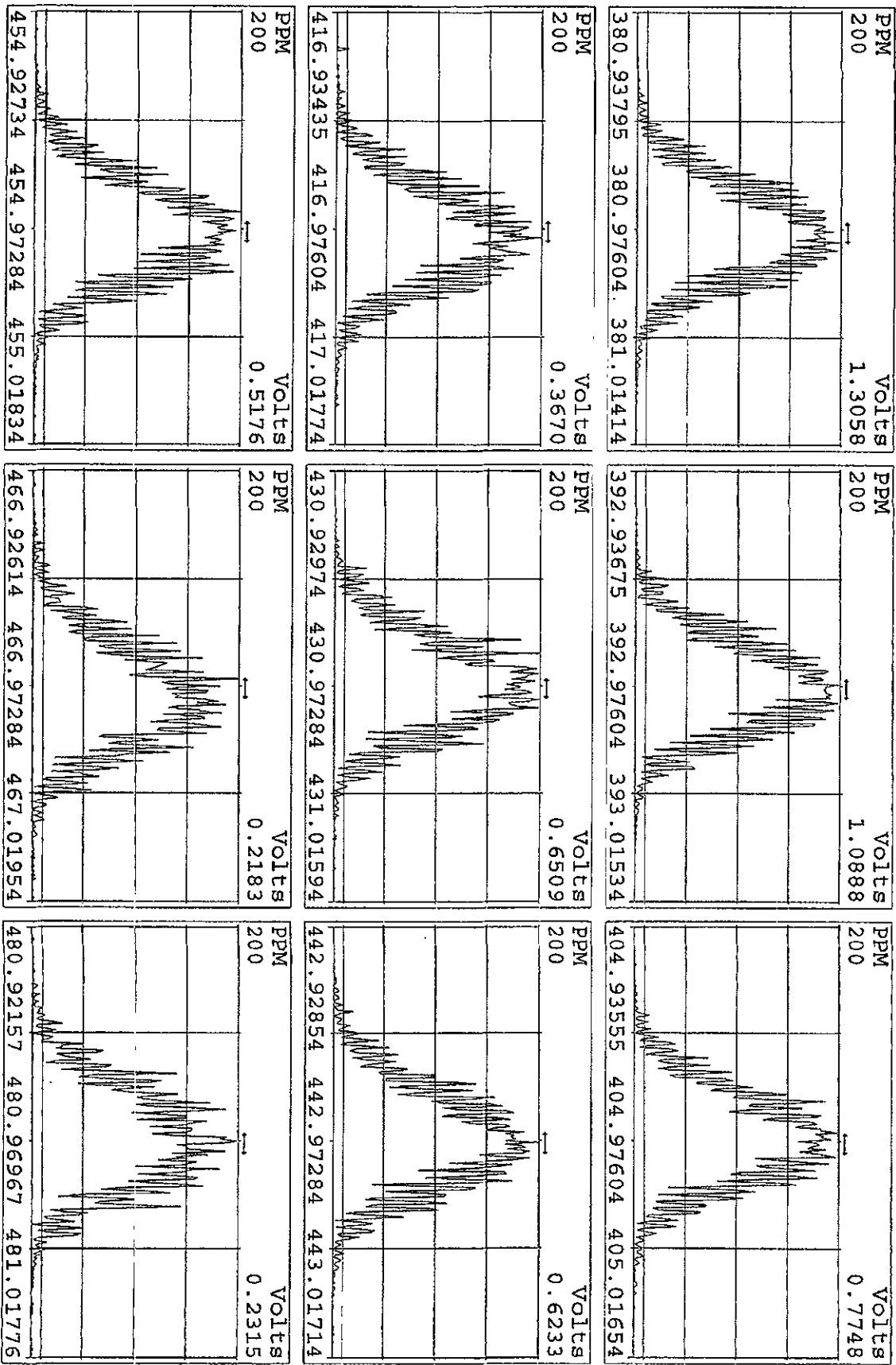
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 Experiment:DIOXINRES Function:2 Reference:PFK



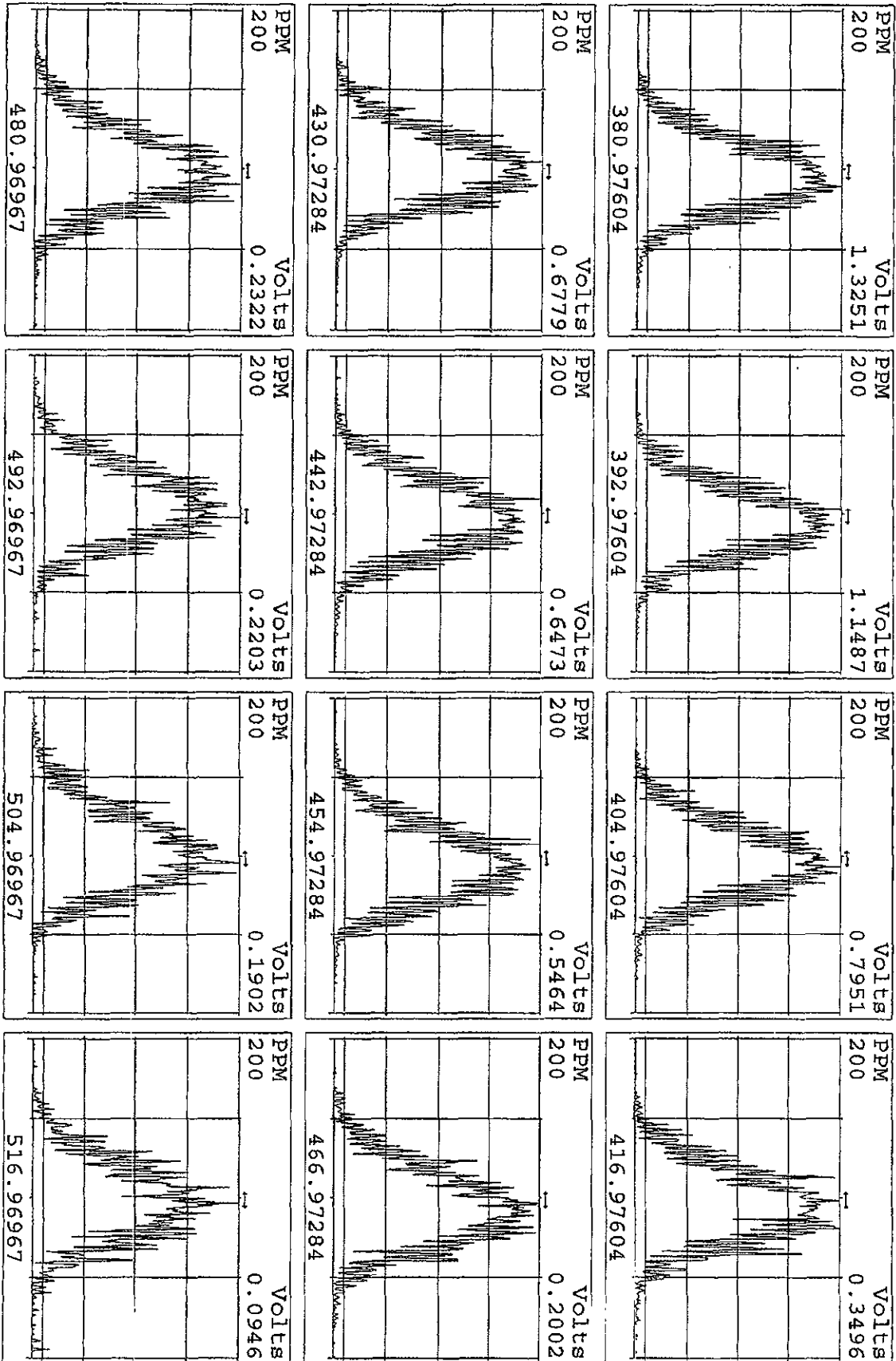
Peak Locate Examination:14-SEP-2010:10:32 File:14SE101D5  
 Experiment:DIOXINRES Function:3 Reference:PFK



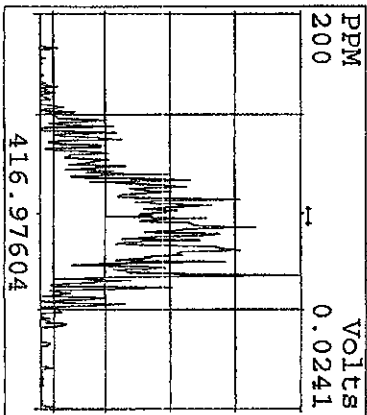
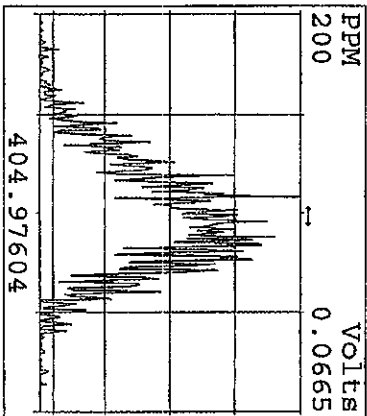
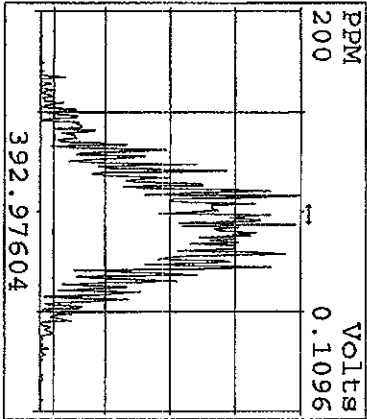
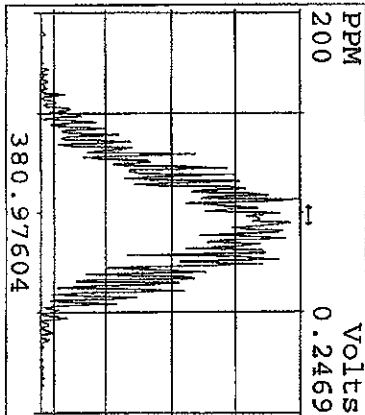
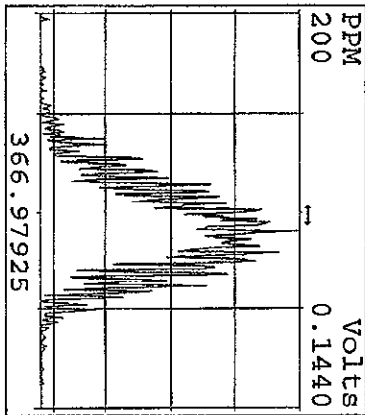
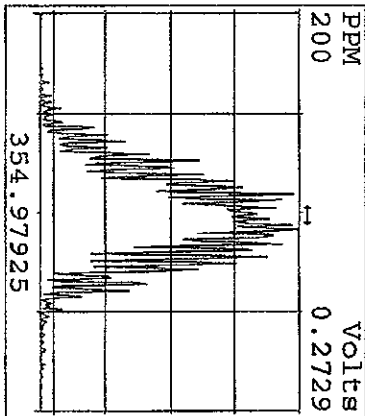
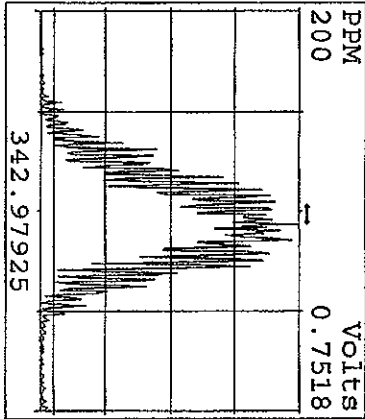
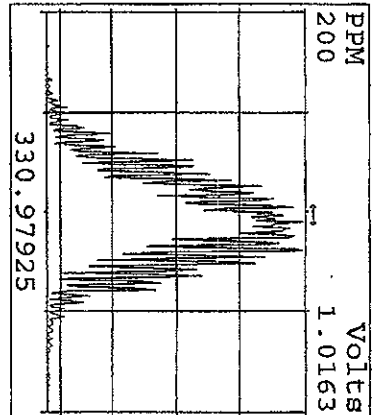
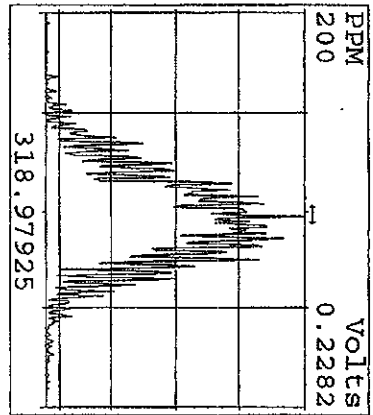
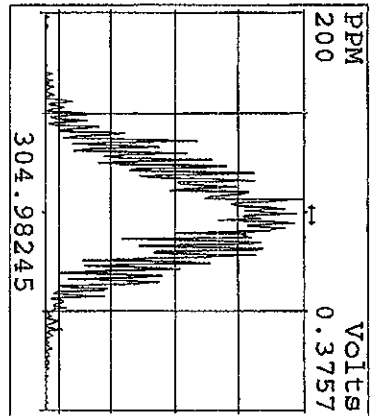
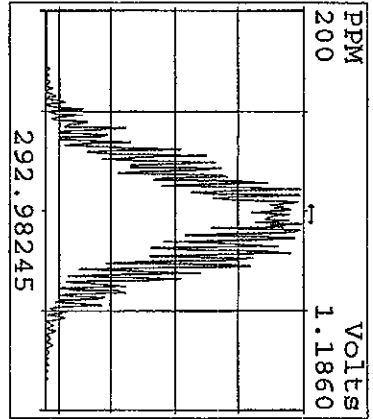
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 Experiment:DIOXINRES Function:4 Reference:PFK



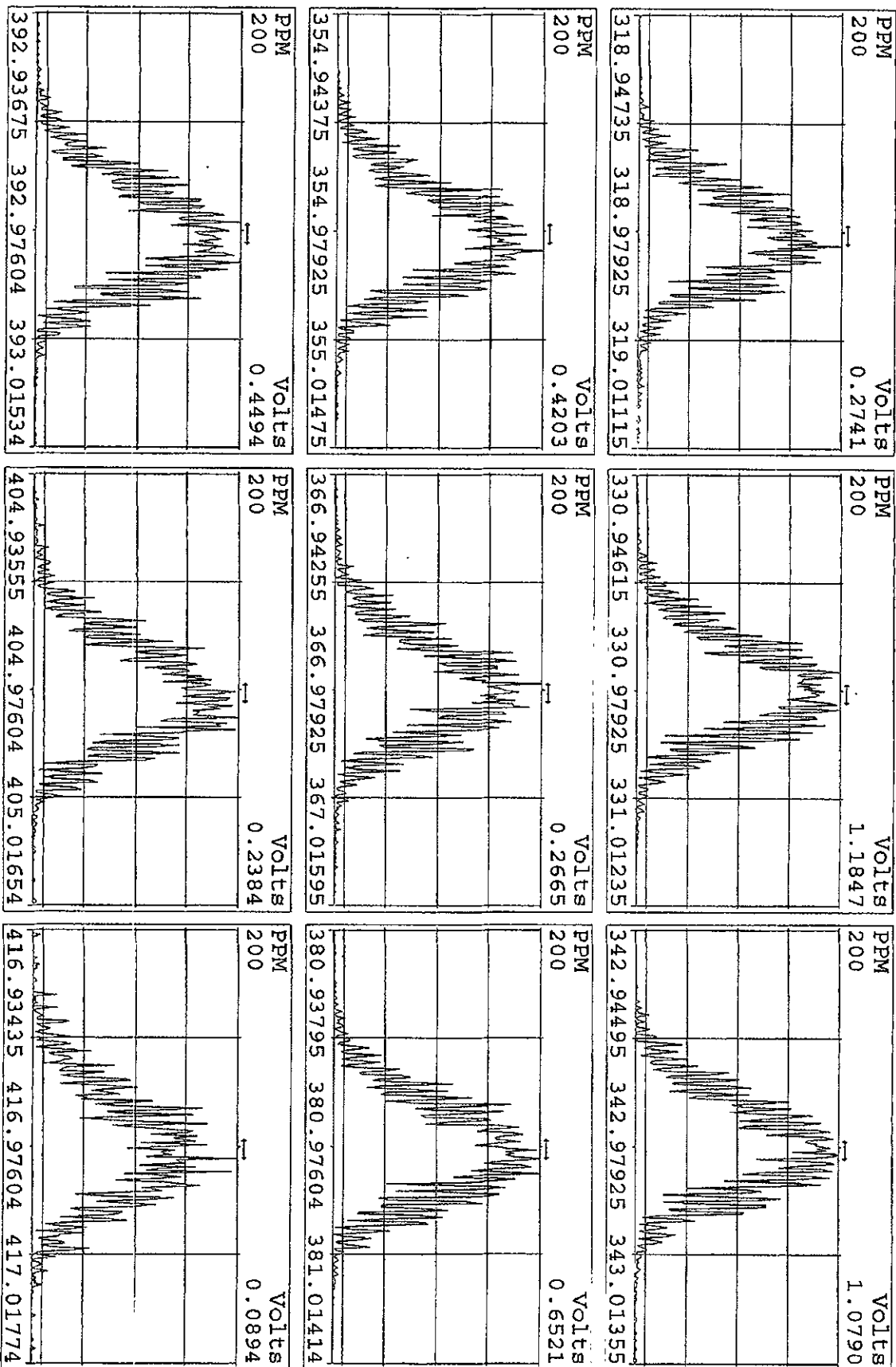
Peak Locate Examination:14-SEP-2010:10:33 File:14SE101D5  
Experiment:DIOXINRES Function:5 Reference:PFK



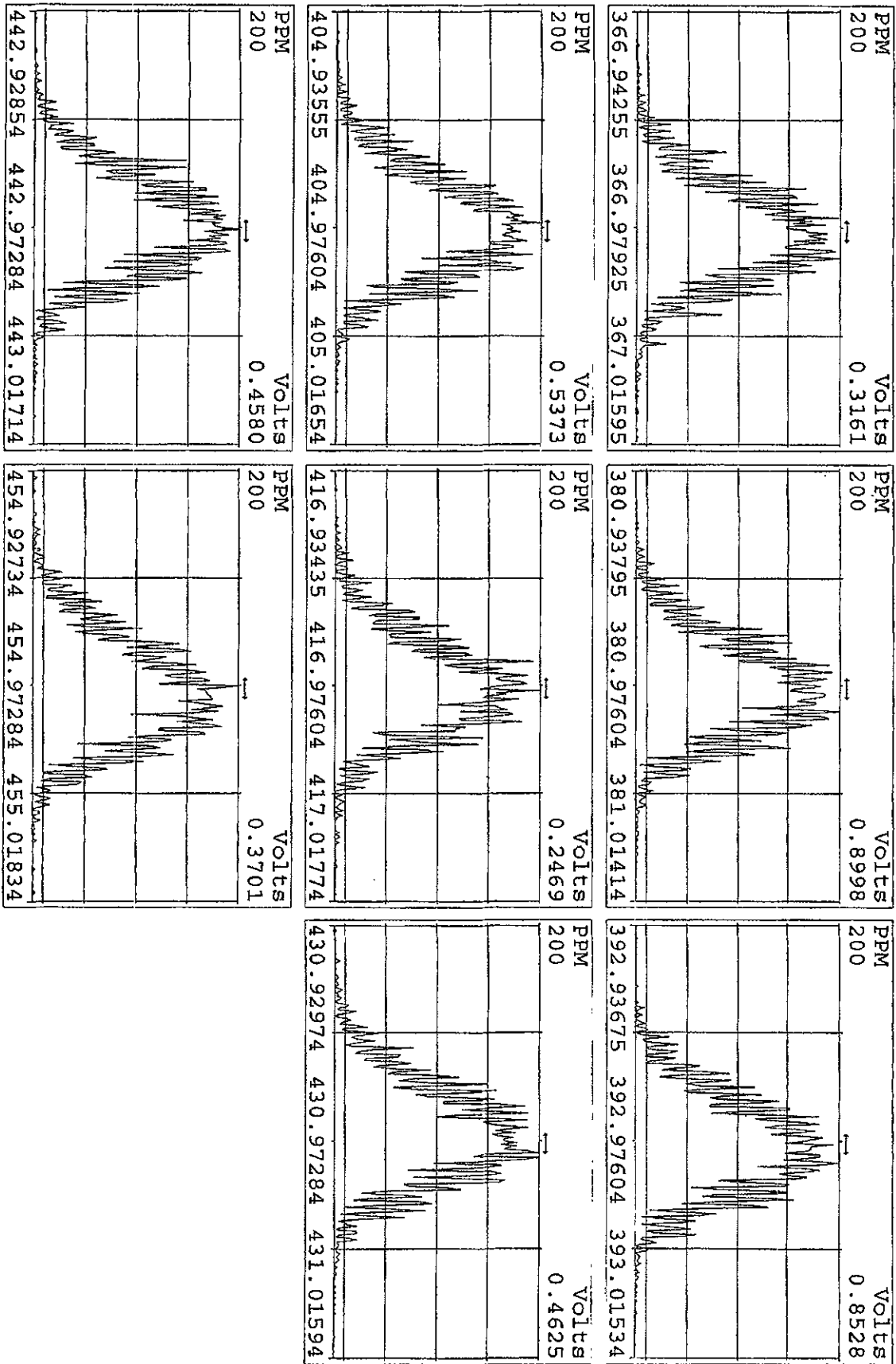
Peak Locate Examination:14-SEP-2010:22:10 File:RHSCHK14SE101D5  
Experiment:DIOXINRES Function:1 Reference:PKK



Peak Locate Examination: 14-SEP-2010: 22:12 File: RESCHK14SE101D5  
 Experiment: DIOXINRES Function: 2 Reference: PFK

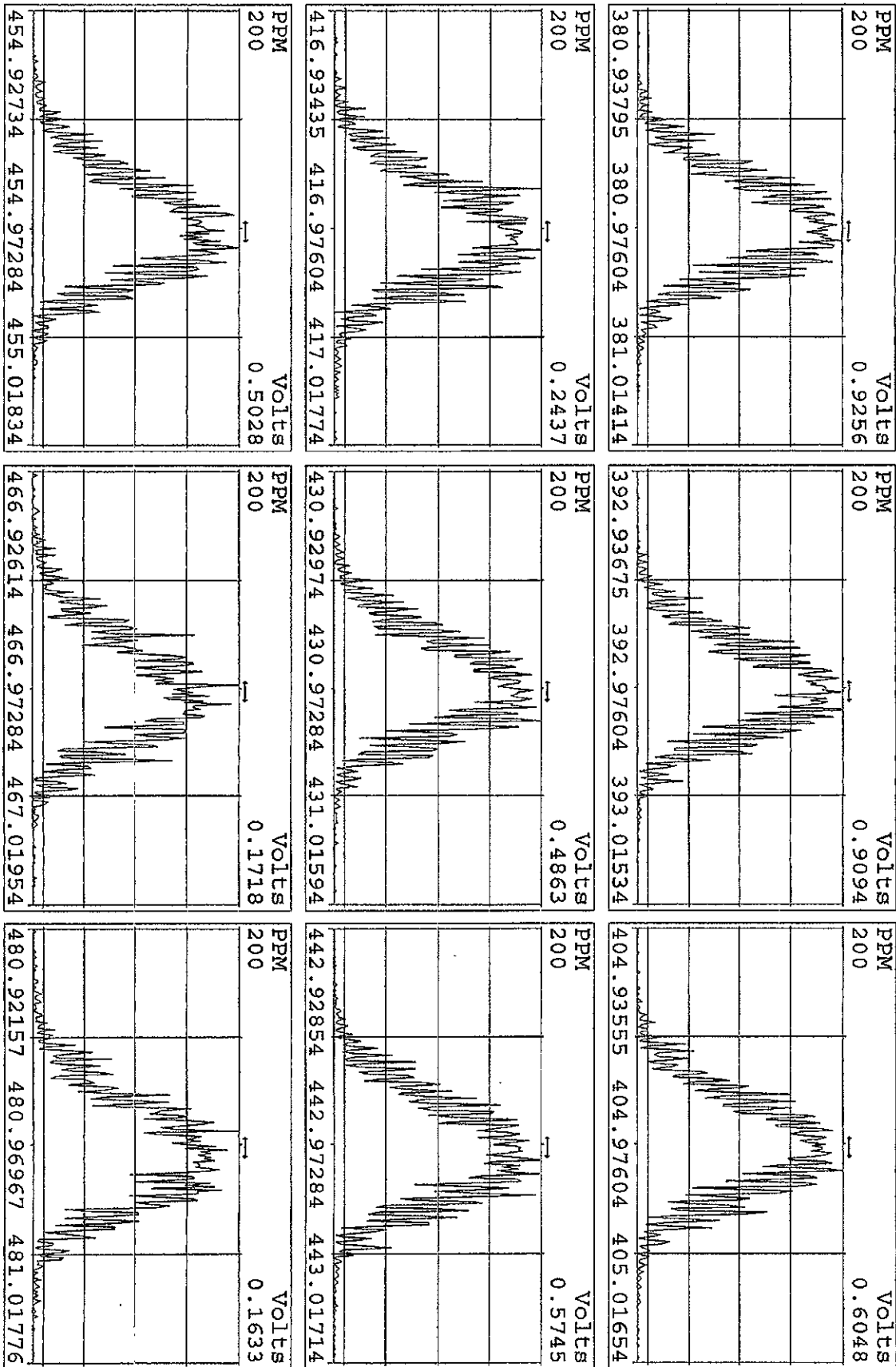


Peak Locate Examination:14-SEP-2010:22:15 File:RESCHK14SEI01DS  
 Experiment:DIOXINRES Function:3 Reference:PFK

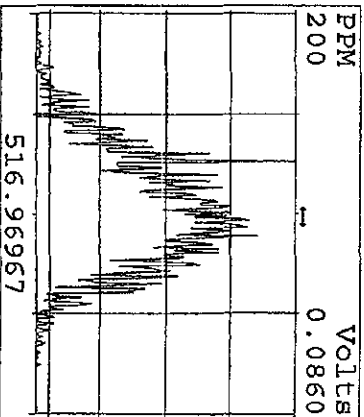
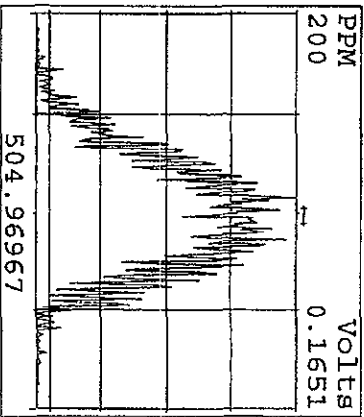
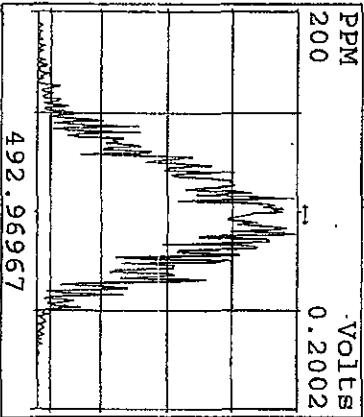
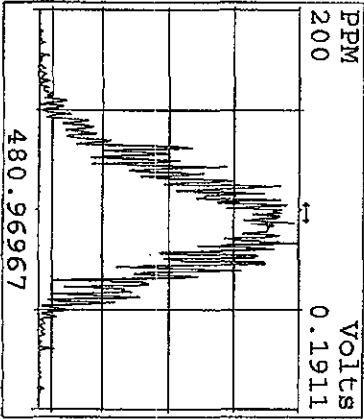
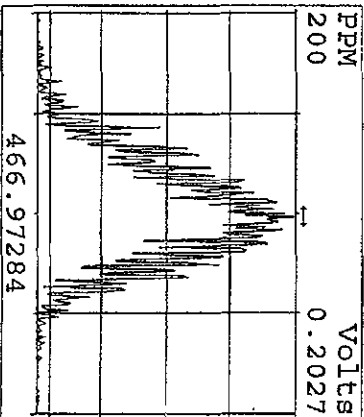
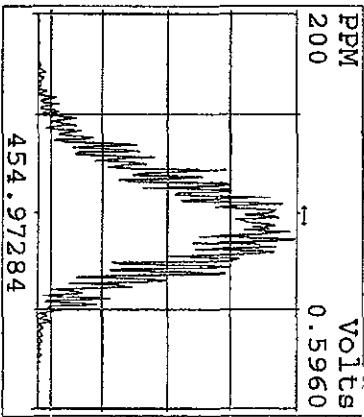
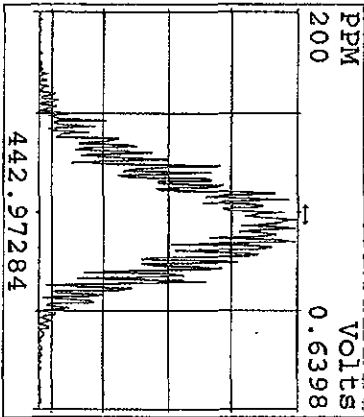
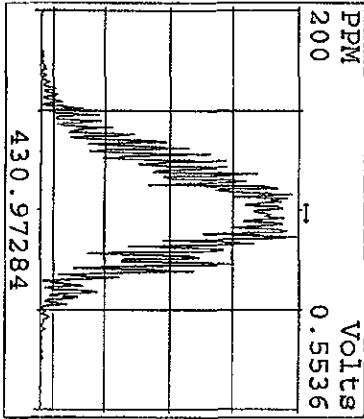
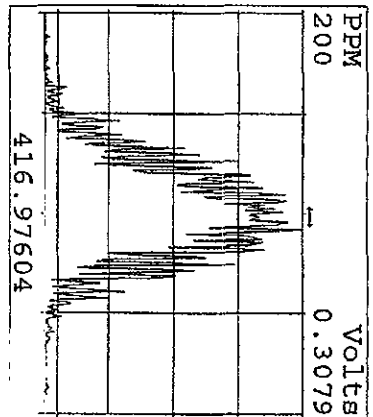
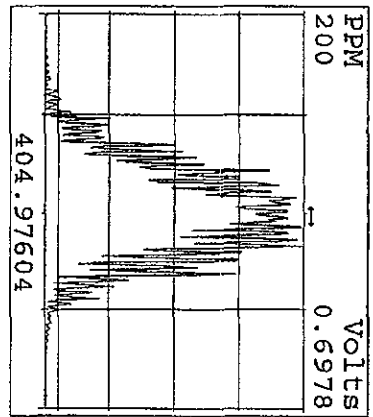
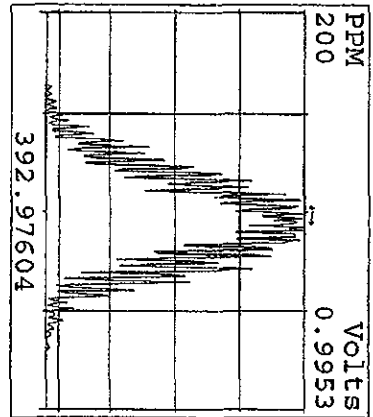
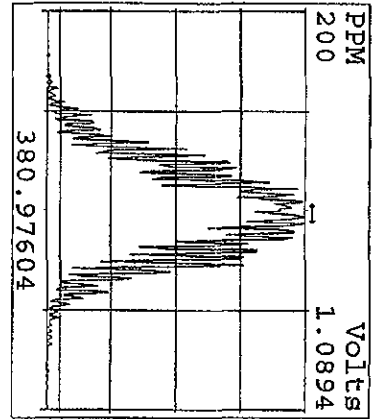




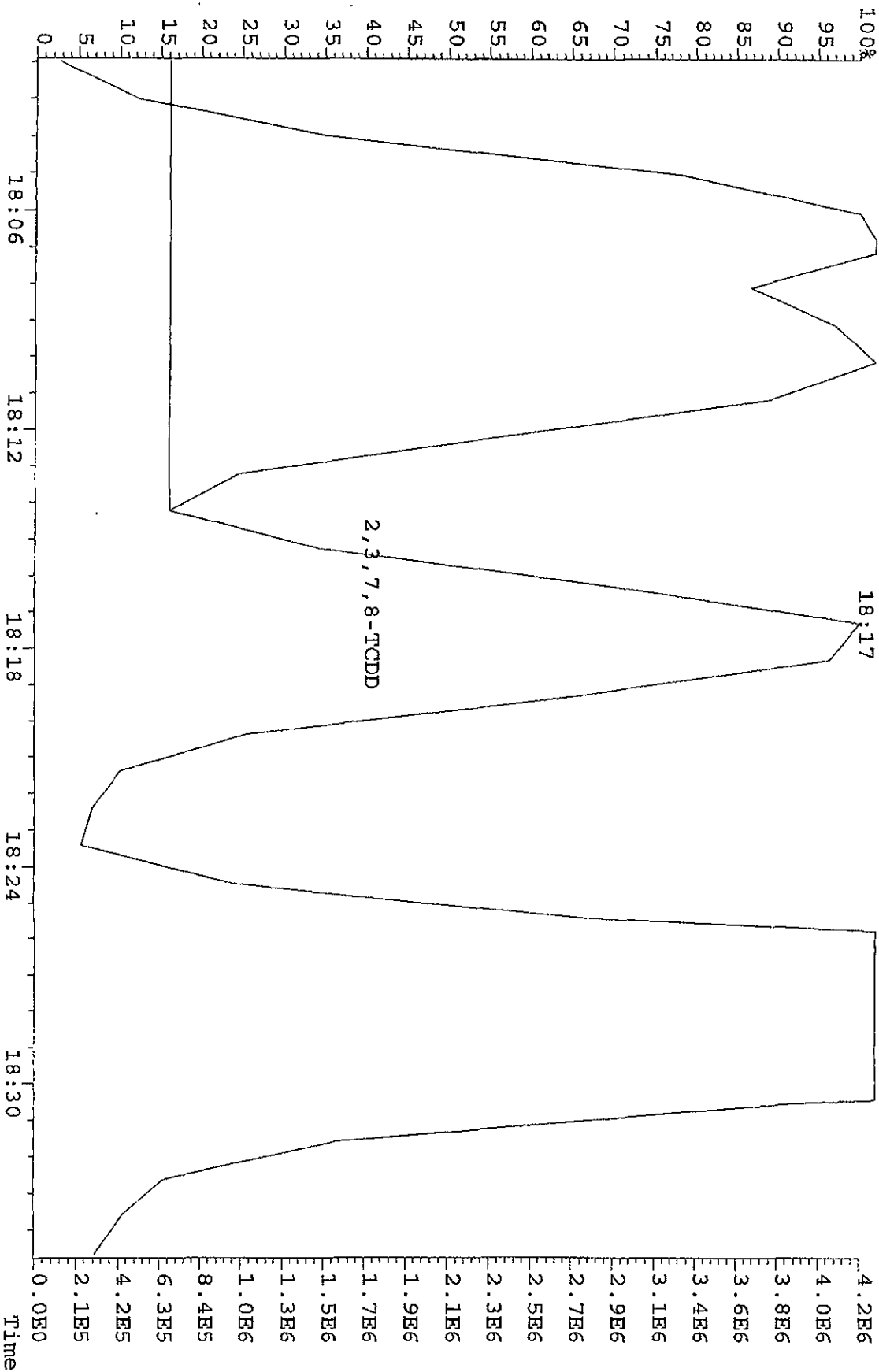
Peak Locate Examination: 14-SEP-2010:22:16 File: RESCHK14SE101DS  
 Experiment: DIOXINRES Function: 4 Reference: PFK



Peak Locate Examination:14-SEP-2010:22:21 File:RESCHK14SEP101D5  
Experiment:DIOXINRES Function:5 Reference:PFK



File: 14SE101D5 #1-383 Acq: 14-SEP-2010 10:35:01 GC EI+ Voltage SIR 70SE  
321.8936 Exp: DIOXINRES  
Sample Text: CP0914 : DB-5 CFSM 3732-07

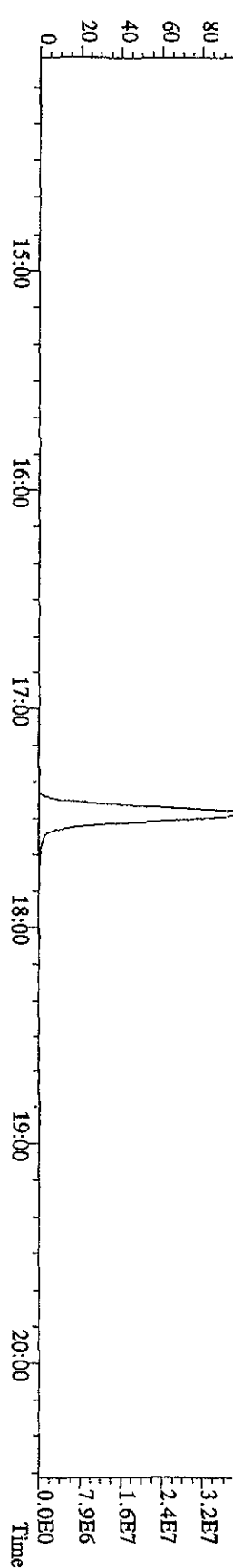
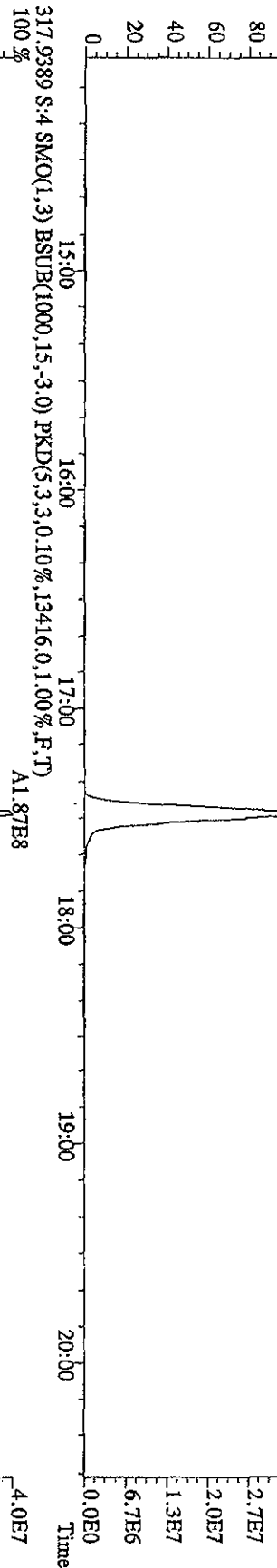
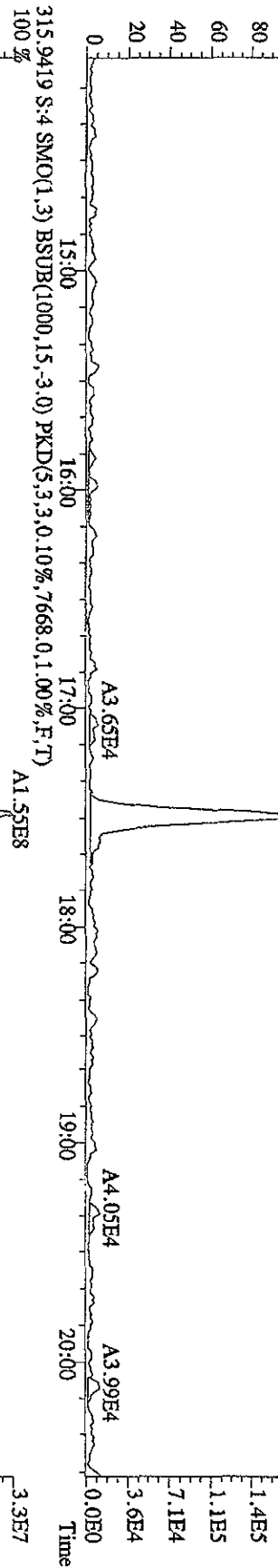
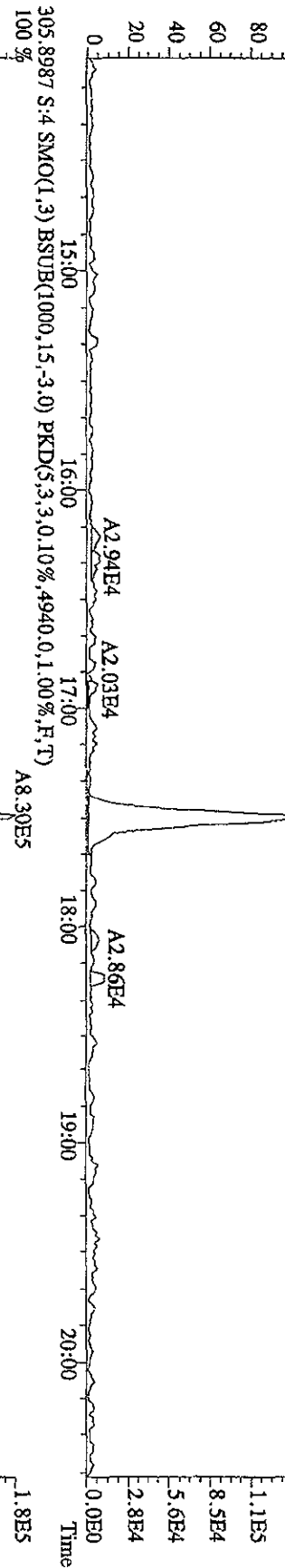


Run text: ST0914E Sample text: ST0914E :2nd Source 10DXN340  
 Run #6 Filename: 14SE101D5 S: 7 I: 1 Results: 14SE101D51613  
 Acquired: 14-SEP-10 14:54:17 Processed: 14-SEP-10 21:06:22  
 Run: 14SE101D5 Analyte: 1613 Cal: 16130914101D5  
 Factor 1: 800.000 Factor 2: 20.000 Sample size: 1.000000

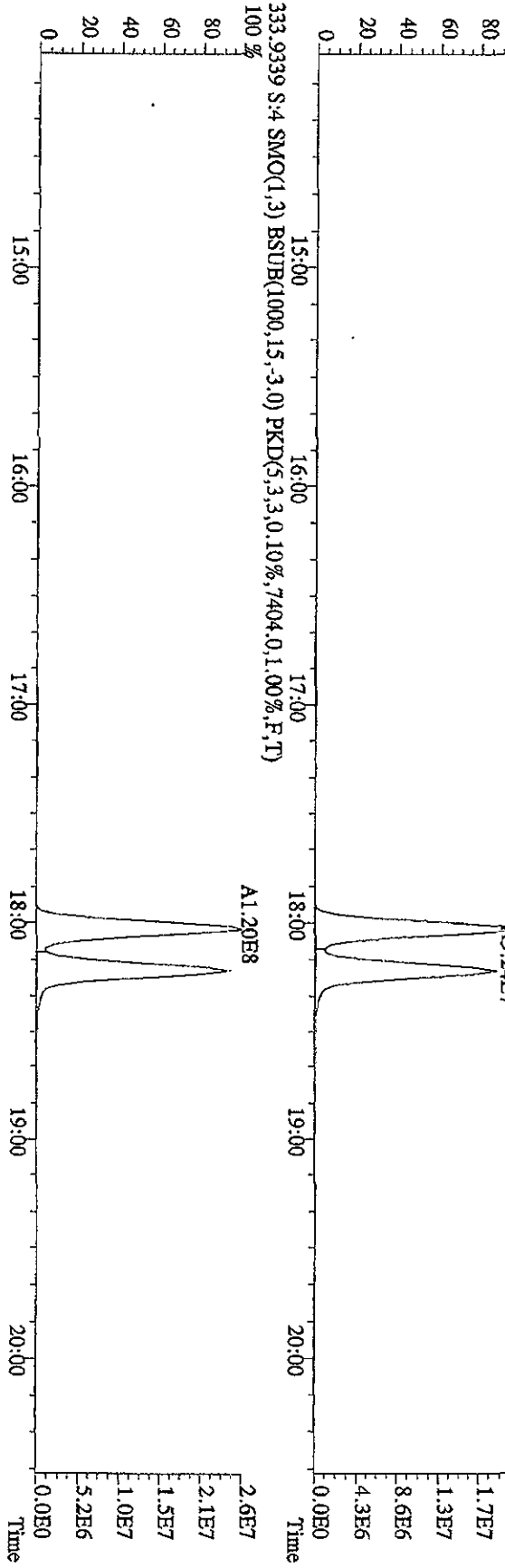
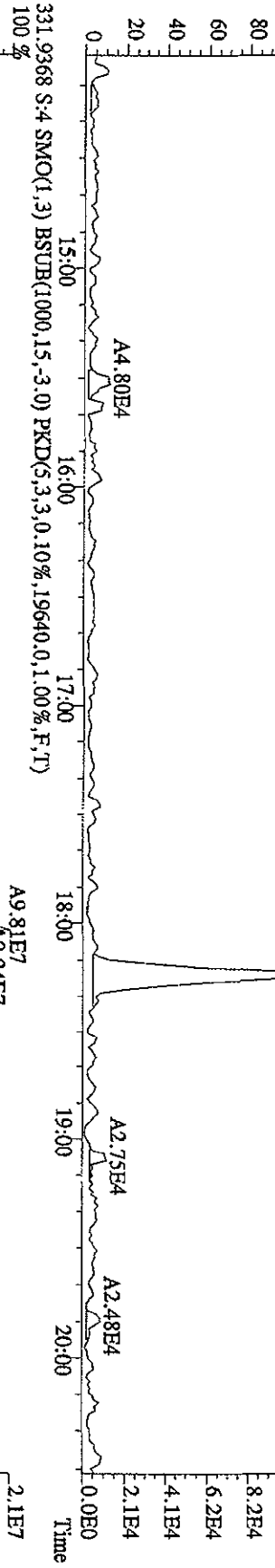
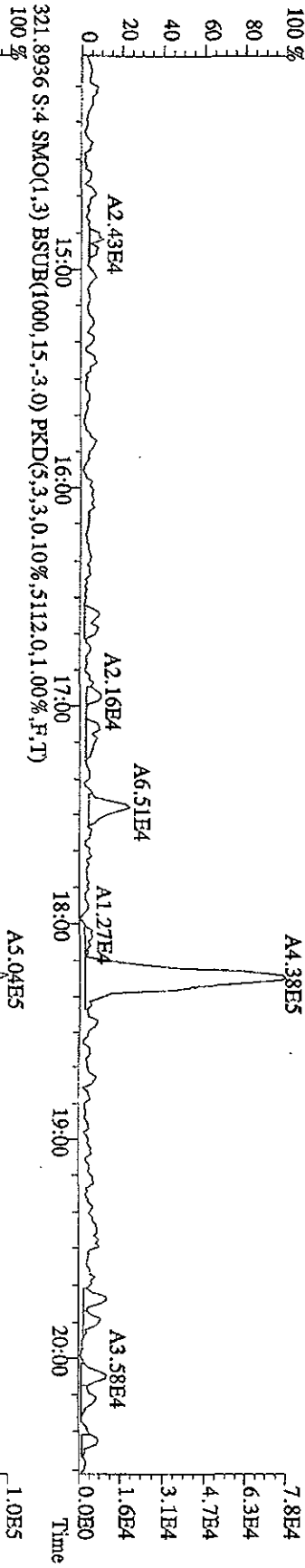
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	294707000	0.83 y	18:01	-	84.34	-	4.2	n
13C-2,3,7,8-TCDF	504927000	0.81 y	17:29	1.56	2192.25	0.84	109.6	n
2,3,7,8-TCDF	45869100	0.74 y	17:30	0.98	184.69	0.39	-	n
Total TCDF	46046046	1.11 n	17:06	0.98	185.40	0.39	-	n
13C-2,3,7,8-TCDD	290657000	0.79 y	18:12	0.92	2141.97	3.25	107.1	n
2,3,7,8-TCDD	27099900	0.81 y	18:13	1.03	180.75	0.94	-	n
Total TCDD	27099900	0.81 y	18:13	1.03	180.75	0.94	-	n
37Cl-2,3,7,8-TCDD	73359000	1.00 y	18:13	1.12	442.68	1.28	110.7	n
13C-1,2,3,7,8-PeCDF	369828000	1.63 y	22:41	1.05	2384.48	1.65	119.2	n
1,2,3,7,8-PeCDF	91904300	1.62 y	22:43	1.09	455.07	1.01	-	n
13C-2,3,4,7,8-PeCDF	352541000	1.64 y	24:03	1.03	2326.05	1.69	116.3	n
2,3,4,7,8-PeCDF	85889400	1.59 y	24:05	1.05	466.16	1.22	-	n
Total F2 PeCDF	179869859	1.36 y	21:19	1.07	931.99	1.11	-	n
Total F1 PeCDF	470418	0.68 n	15:13	1.07	2.44	0.78	-	n
13C-1,2,3,7,8-PeCDD	194246700	1.68 y	24:49	0.56	2350.36	1.07	117.5	n
1,2,3,7,8-PeCDD	44763900	1.67 y	24:50	1.07	430.61	1.58	-	n
Total PeCDD	44950087	2.35 n	23:19	1.07	432.40	1.58	-	n
13C-1,2,3,7,8,9-HxCDD	312431000	1.27 y	30:58	-	95.19	-	-	n
13C-1,2,3,4,7,8-HxCDF	326959000	0.53 y	29:44	0.99	2112.34	2.10	105.6	n
1,2,3,4,7,8-HxCDF	106342300	1.35 y	29:46	1.26	515.88	1.70	-	n
13C-1,2,3,6,7,8-HxCDF	458136000	0.54 y	29:51	1.29	2276.48	1.61	113.8	n
1,2,3,6,7,8-HxCDF	127771800	1.22 y	29:52	1.18	471.57	1.32	-	n
13C-2,3,4,6,7,8-HxCDF	407372000	0.53 y	30:28	1.15	2275.96	1.81	113.8	n
2,3,4,6,7,8-HxCDF	112225700	1.25 y	30:28	1.22	452.83	1.26	-	n
13C-1,2,3,7,8,9-HxCDF	400528000	0.52 y	31:10	1.17	2182.35	1.77	109.1	n
1,2,3,7,8,9-HxCDF	112624000	1.28 y	31:10	1.18	478.46	1.37	-	n
Total HxCDF	458963800	1.35 y	29:46	1.21	1918.74	1.40	-	n
13C-1,2,3,4,7,8-HxCDD	252413000	1.30 y	30:37	0.79	2056.70	0.85	102.8	n
1,2,3,4,7,8-HxCDD	61457200	1.28 y	30:37	1.05	461.65	0.75	-	n
13C-1,2,3,6,7,8-HxCDD	264678000	1.30 y	30:42	0.74	2291.20	0.91	114.6	n
1,2,3,6,7,8-HxCDD	64770600	1.33 y	30:42	1.14	428.87	0.69	-	n
1,2,3,7,8,9-HxCDD	75705800	1.29 y	30:59	1.31	446.13	0.60	-	n
Total HxCDD	202056137	2.68 n	29:51	1.17	1337.46	0.68	-	n
13C-1,2,3,4,6,7,8-HpCDF	329233000	0.46 y	32:35	0.96	2204.31	2.87	110.2	n
1,2,3,4,6,7,8-HpCDF	111093700	1.04 y	32:35	1.41	479.25	1.00	-	n
13C-1,2,3,4,7,8,9-HpCDF	293714500	0.45 y	33:47	0.84	2240.40	3.27	112.0	n
1,2,3,4,7,8,9-HpCDF	95348300	1.08 y	33:48	1.41	460.79	1.17	-	n
Total HpCDF	206442000	1.04 y	32:35	1.41	940.04	1.08	-	n

13C-1,2,3,4,6,7,8-HpCDD	249861000	1.09	y	33:27	0.71	2245.81	1.90	112.3	n
1,2,3,4,6,7,8-HpCDD	65188500	1.08	y	33:27	1.13	460.00	0.66	-	n
Total HpCDD	65582438	2.91	n	32:35	1.13	462.78	0.66	-	n
13C-OCDD	237180000	0.92	y	36:04	0.35	4304.94	3.77	107.6	n
OCDF	120958900	0.88	y	36:12	2.12	963.37	1.13	-	n
OCDD	76632000	0.92	y	36:04	1.37	942.58	1.77	-	n

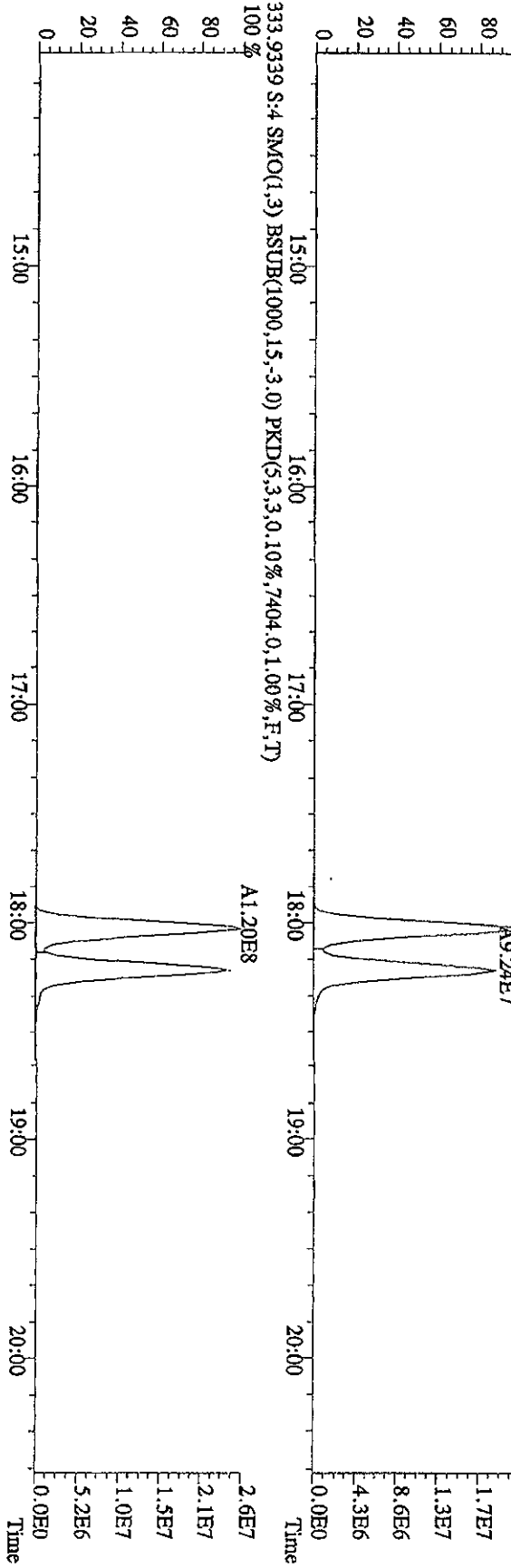
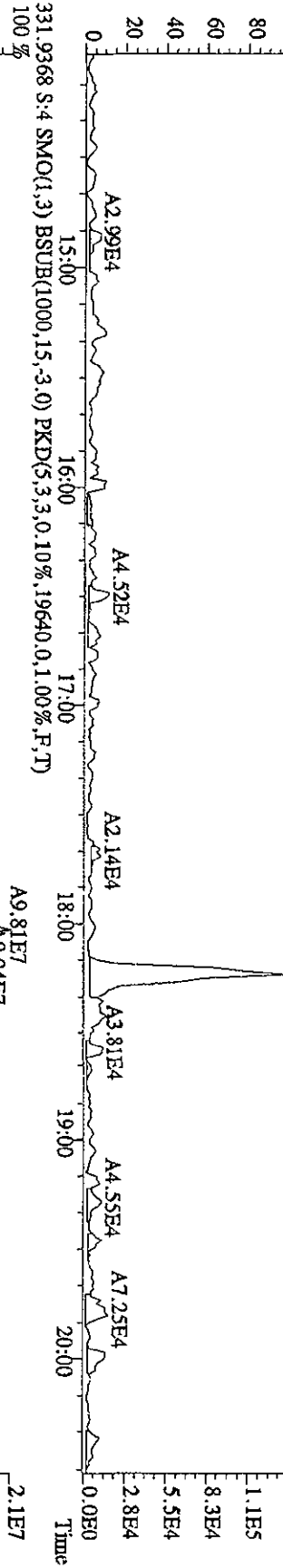
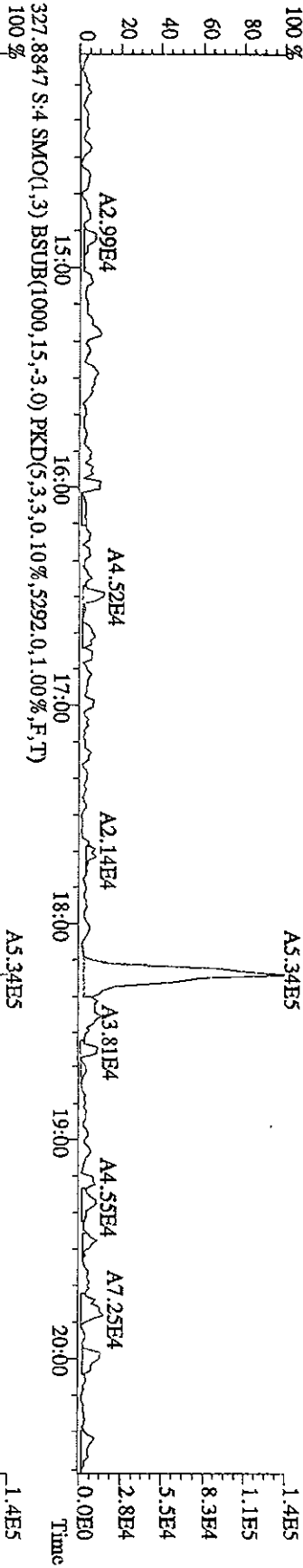
File: 14SE101D5 #1-382 Acq: 14-SEP-2010 12:45:23 GC EI+ Voltage: SIR 70SE  
 Sample#4 Text: ST0914B .CSI 10DXN342 Exp: DIOXINRES  
 303.9016 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3936,0,1,00%,F,T)  
 100%



File:14SEI01D5 #1-382 Acq:14-SEP-2010 12:45:23 GC EI+ Voltage SIR 70SE  
 Sample#4 Text:ST0914B :CSI 10DXN342 Exp:DIOXINRES  
 319.8965 S-4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3932,0,1,00%,F,T)

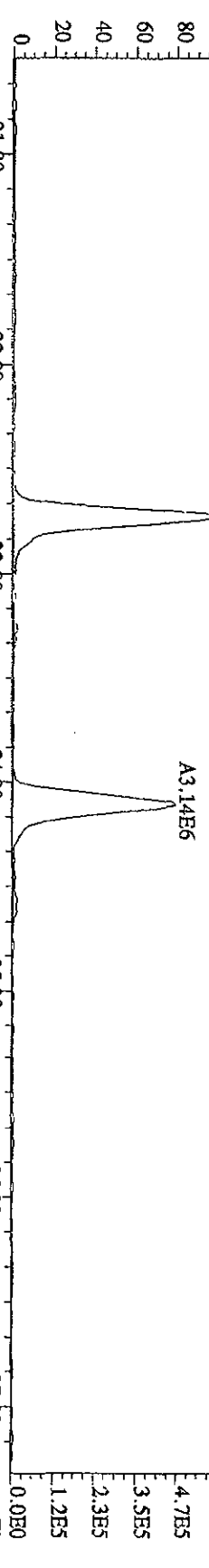


File: 14SE101D5 #1-382 Acq-14-SEP-2010 12:45:23 GC EI+ Voltage SFR 70SE  
 Sample#4 Text: ST10914B :CSI 10DXN342 Exp: DIOXINES  
 327.8847 S-4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.5292,0,1.00%,F,T)

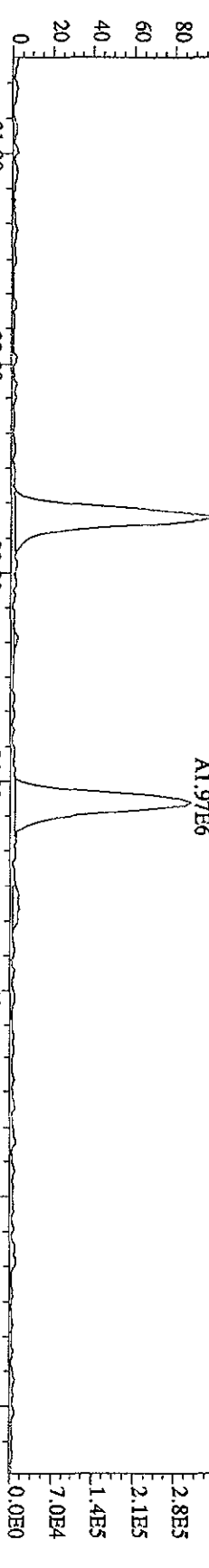




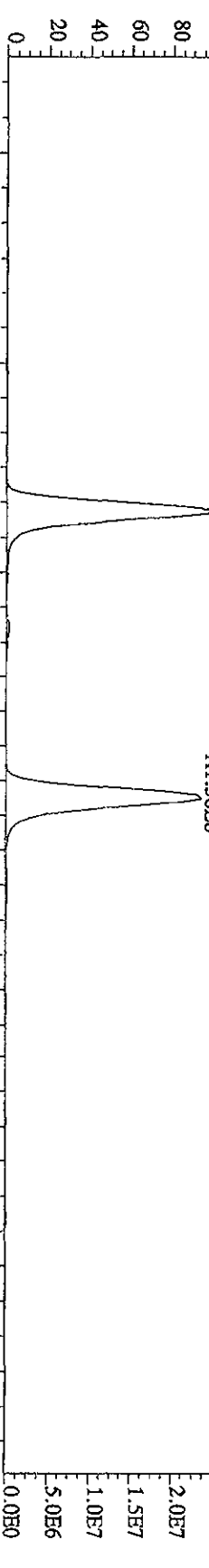
File: 14SEP10ID5 #1-422 Acq: 14-SEP-2010 12:45:23 GC EI+ Voltage SIR 70SE  
 Sample#4 Text: ST0914B :CSI 10DXN342 Exp: DIOXINRES  
 339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5104,0,1,00%,F,T)  
 100% A3.51E6



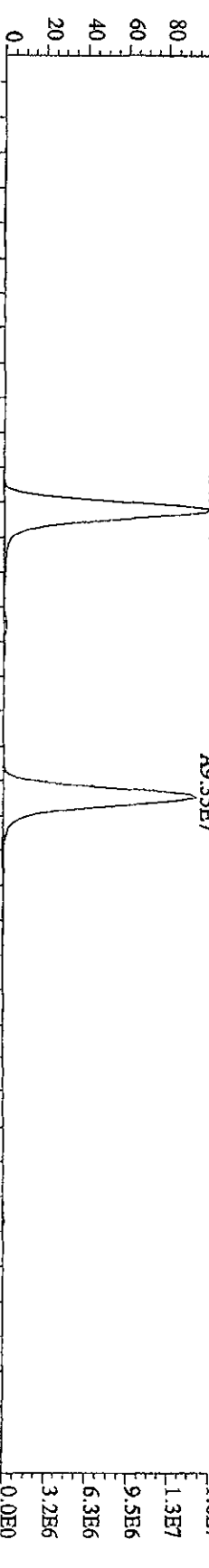
341.8567 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5868,0,1,00%,F,T)  
 100% A2.04E6



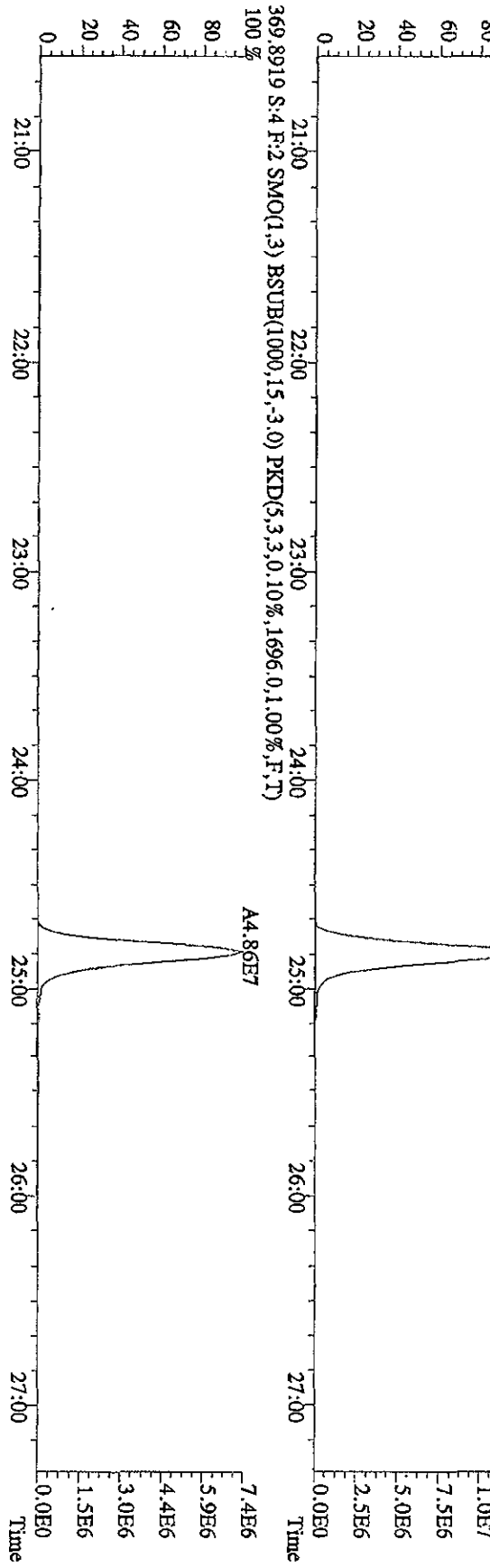
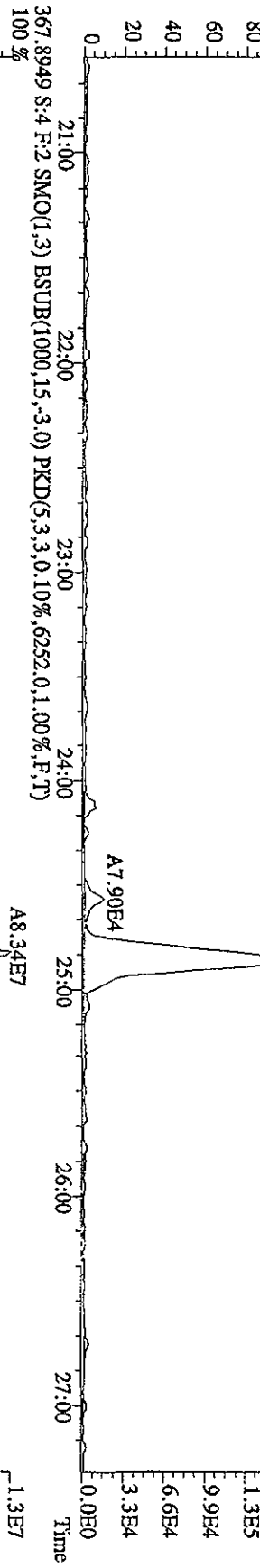
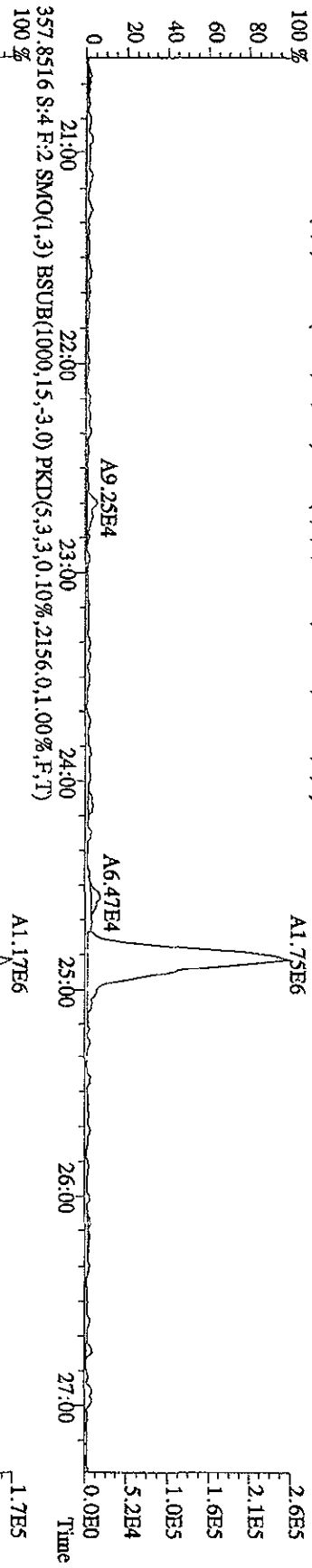
351.9000 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5012,0,1,00%,F,T)  
 100% A1.54E8



353.8970 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5104,0,1,00%,F,T)  
 100% A9.57E7



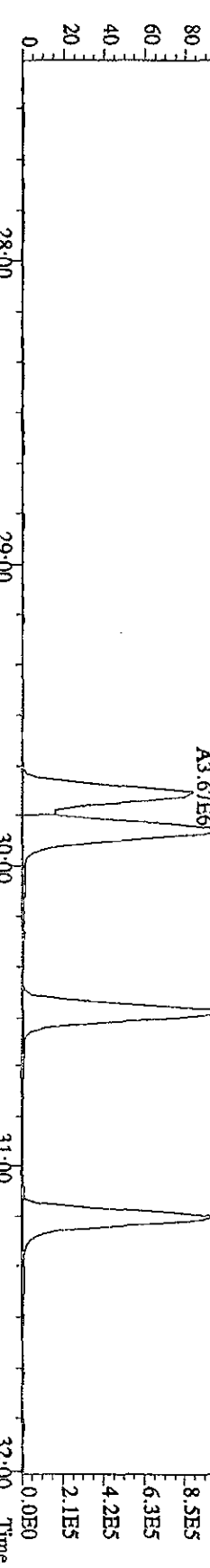
File: 14SE101D5 #1-422 Acq: 14-SEP-2010 12:45:23 GC EI + Voltage SIR 70SE  
 Sample#4 Text: ST0914B .CSI 10DXN342 Exp: DIOXINRES  
 355.8546 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4152.0,1.00%,F,T)  
 100%



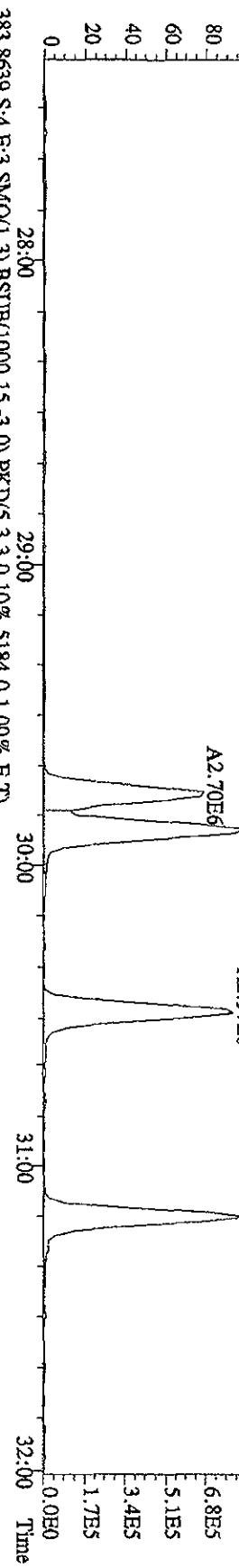
File: 14SEP101D5 #1-301 Acq: 14-SEP-2010 12:45:23 GC EI+ Voltage SIR 70SE

Sample#4 Text: ST0914B :CSI 10DXN342 Exp: DIOXINRES

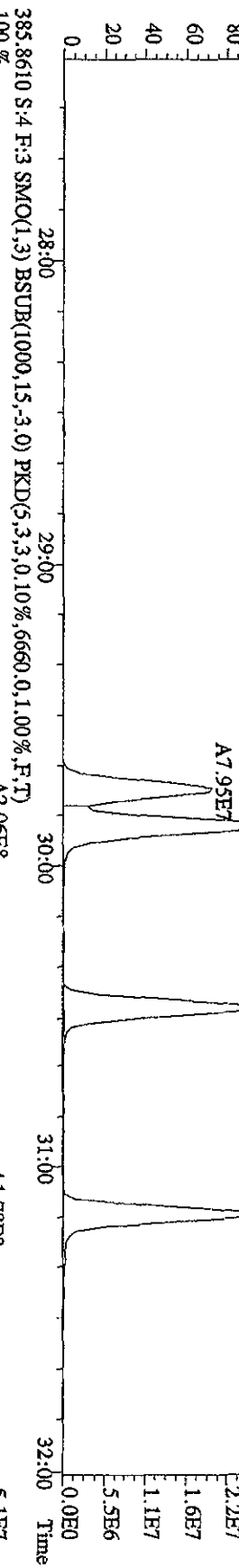
373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4940,0,1,00%,F,T)



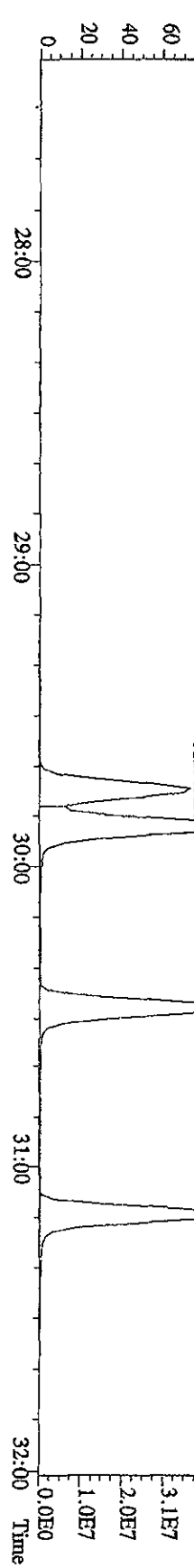
375.8178 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3960,0,1,00%,F,T)



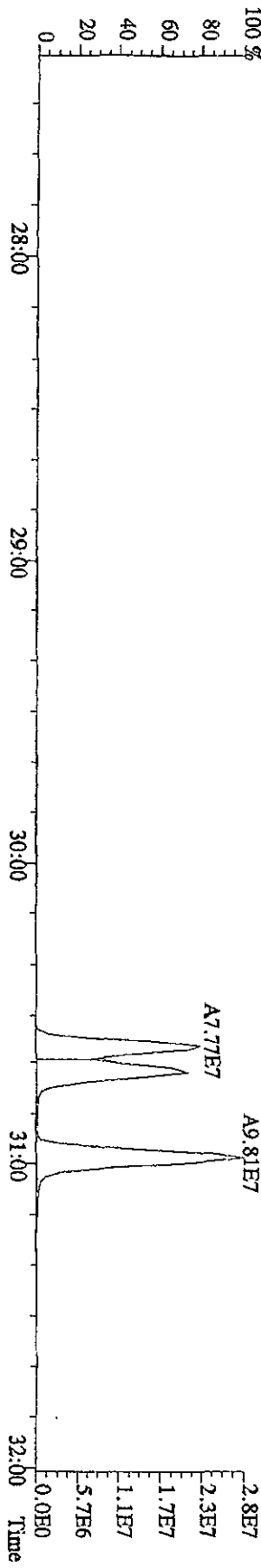
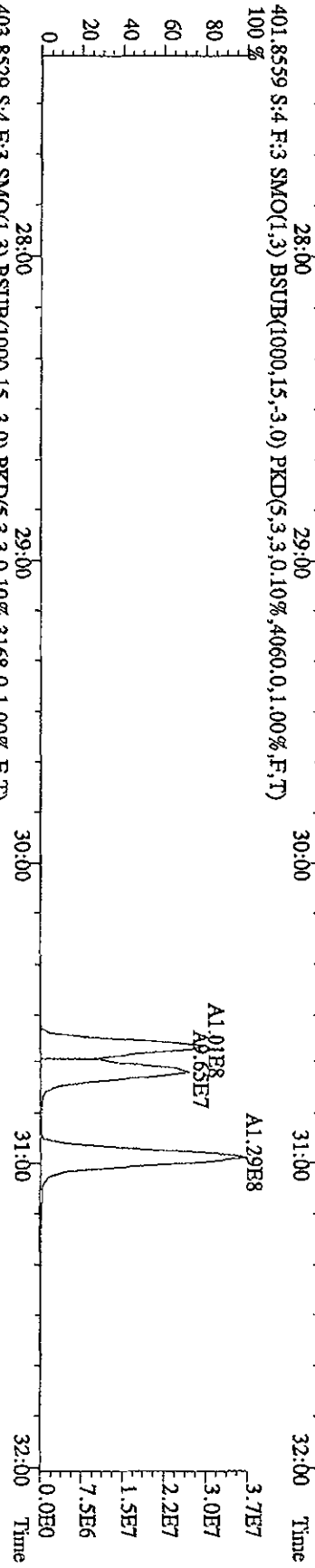
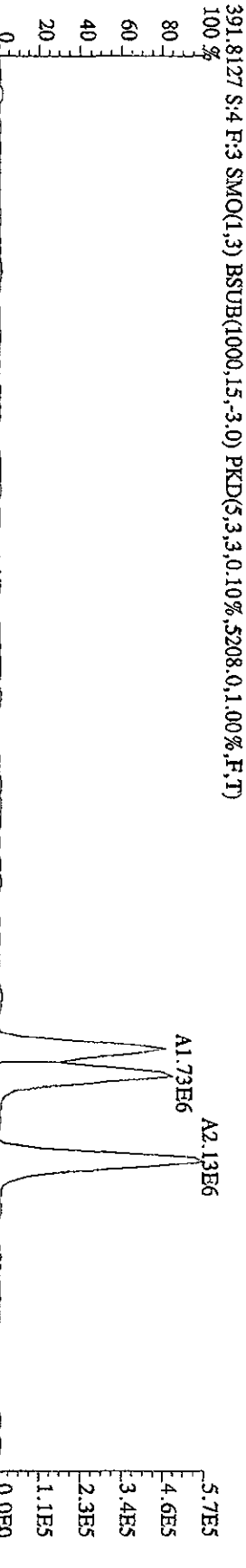
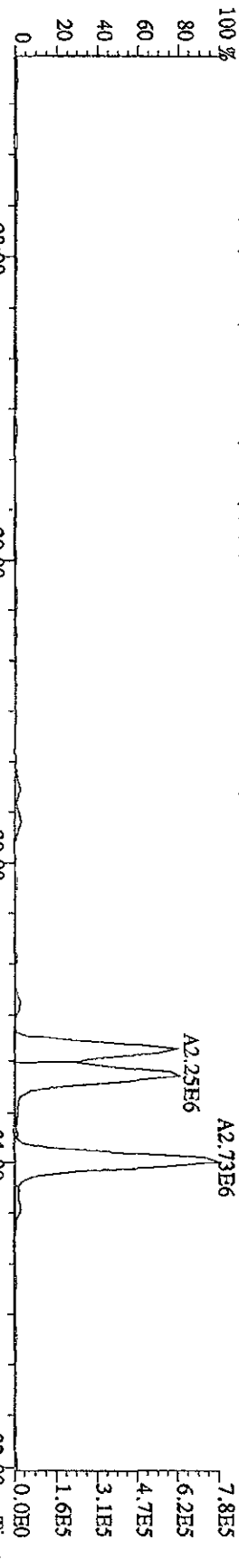
383.8639 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5184,0,1,00%,F,T)



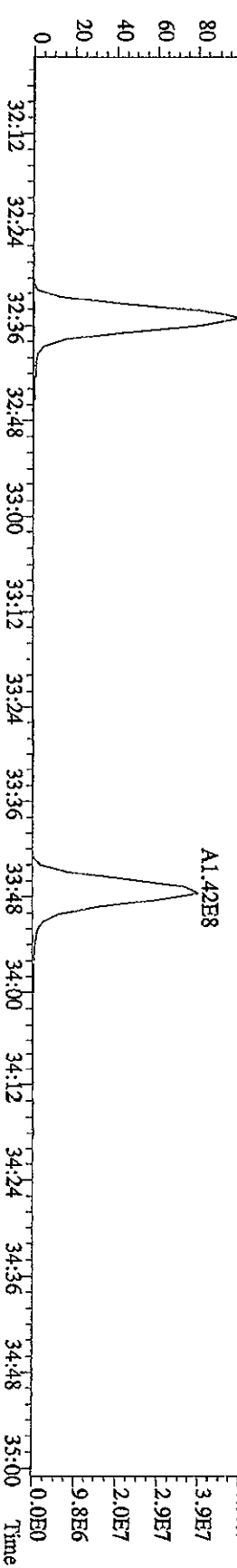
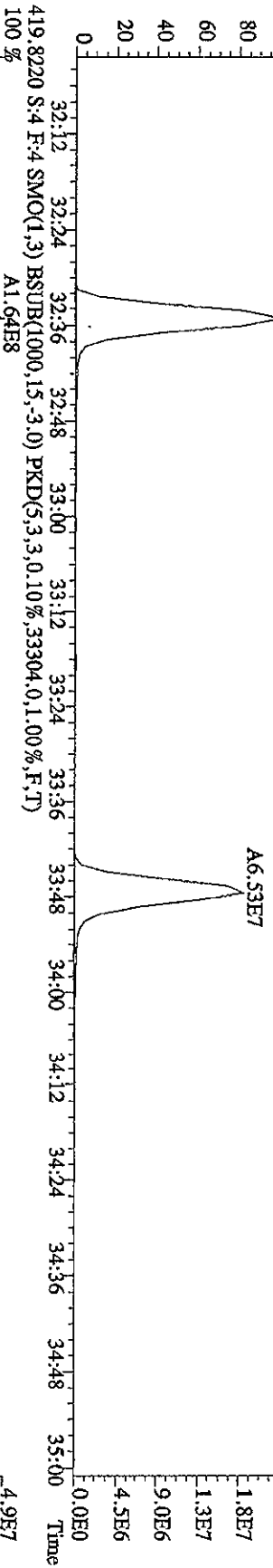
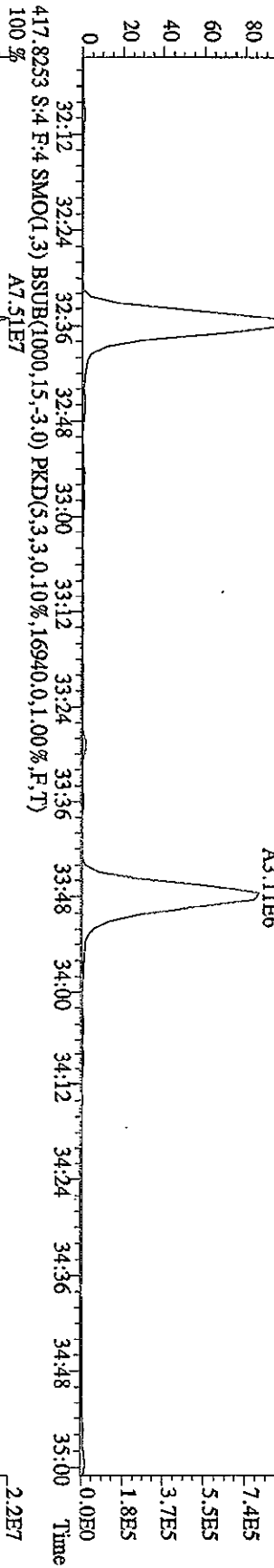
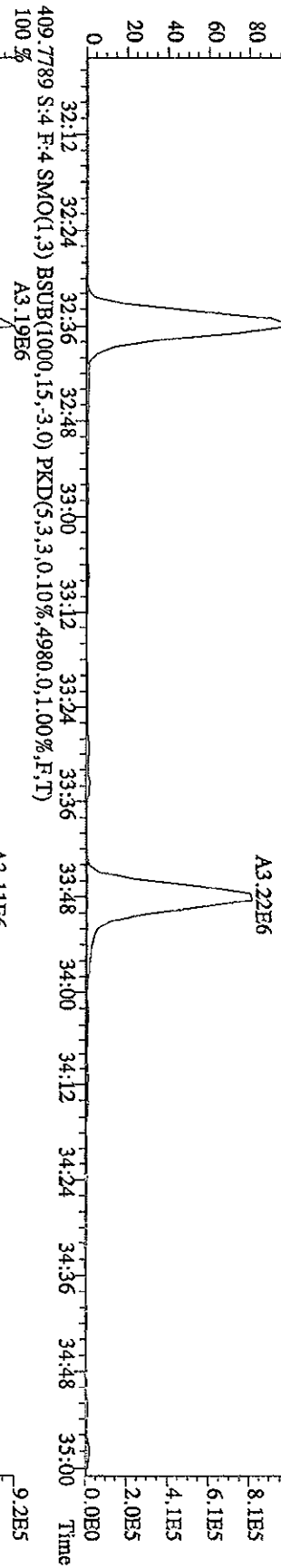
385.8610 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6660,0,1,00%,F,T)



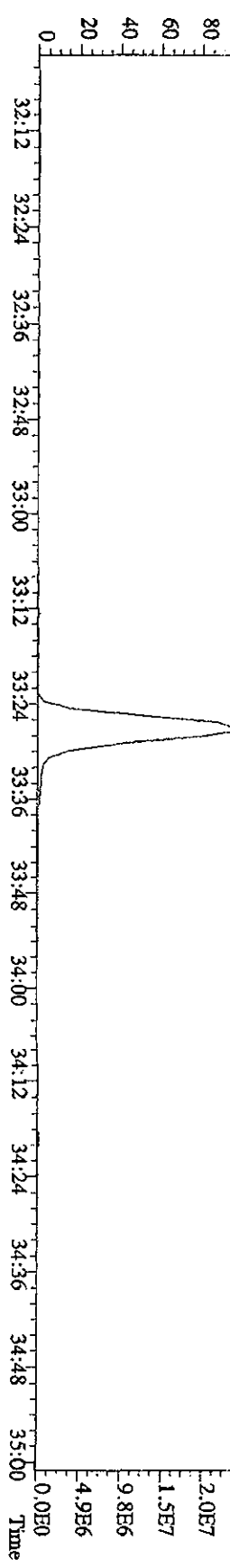
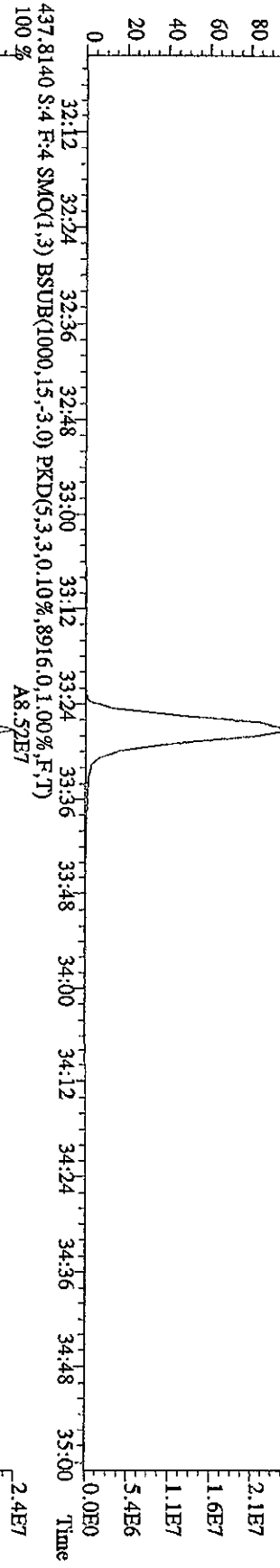
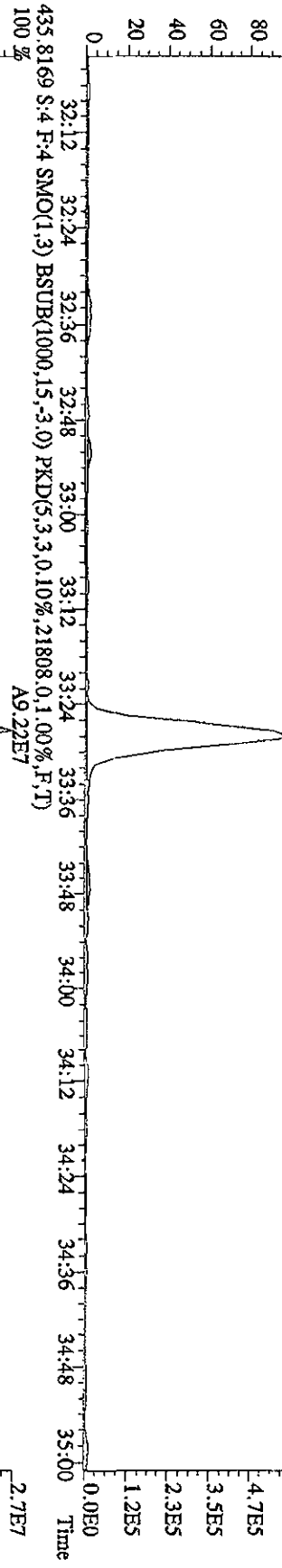
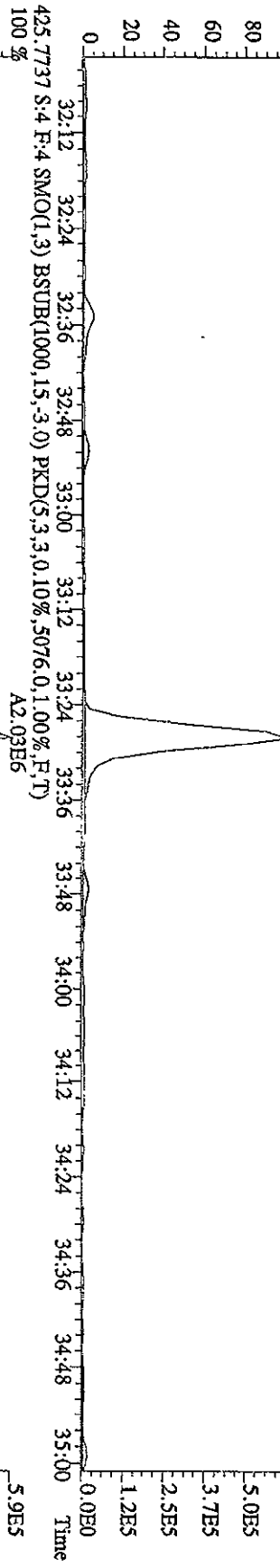
File: 14SE101D5 #1-301 Acq:14-SEP-2010 12:45:23 GC EI+ Voltage SIR 70SE  
 Sample#4 Text:ST0914B :CSI 10DXN342 Exp:DIOXINRES  
 389.8157 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3584,0.1,00%,F,T)  
 100%



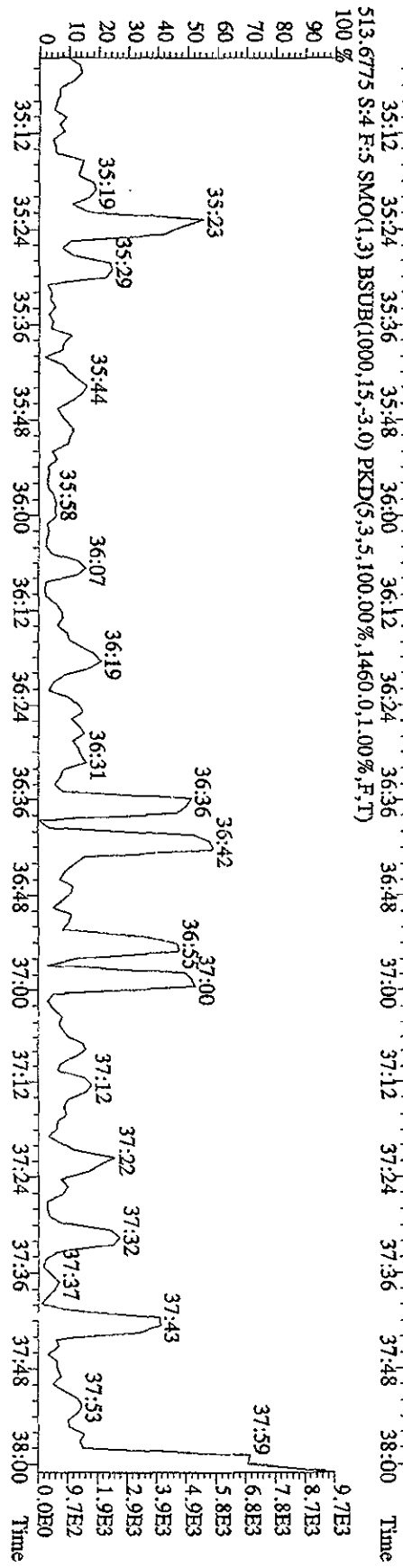
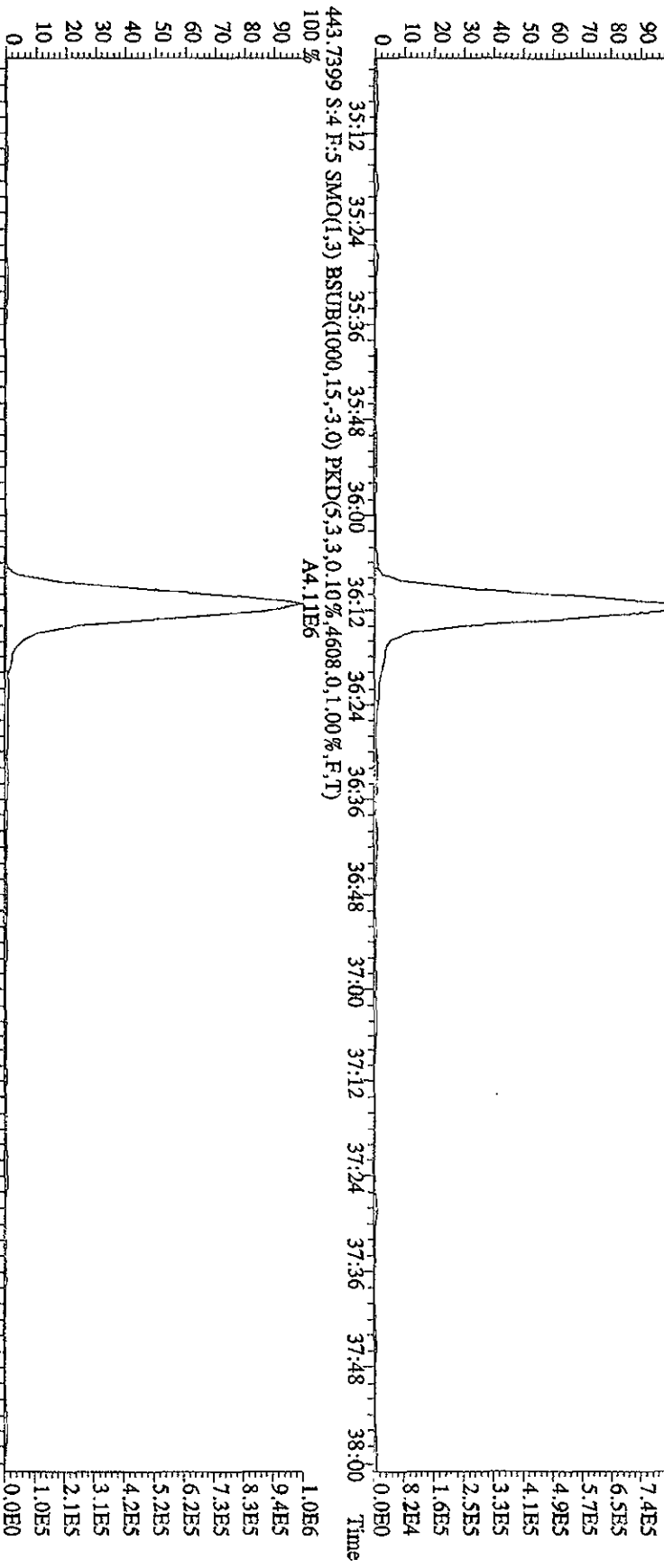
File:14SEI01D5 #1-203 Acq:14-SEP-2010 12:45:23 GC EI + Voltage SIR 70SE  
 Sample#4 Text:ST0914B :CSI 10DXN342 Exp:DIOXINRES  
 407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7392.0,1.00%,F,T)  
 100%



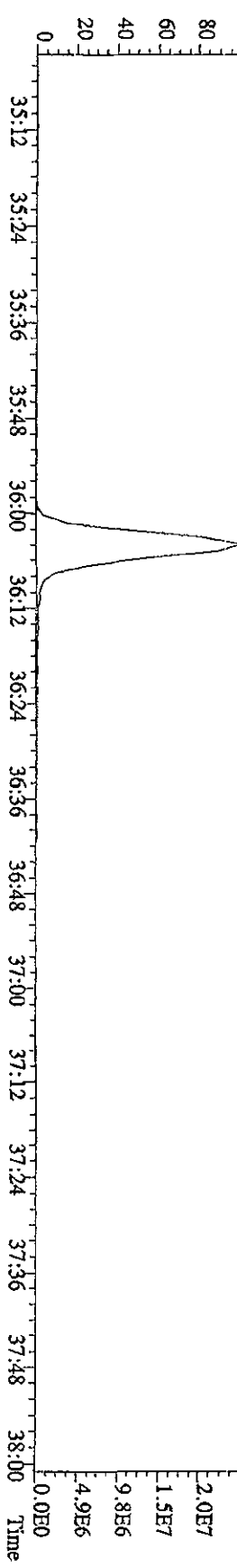
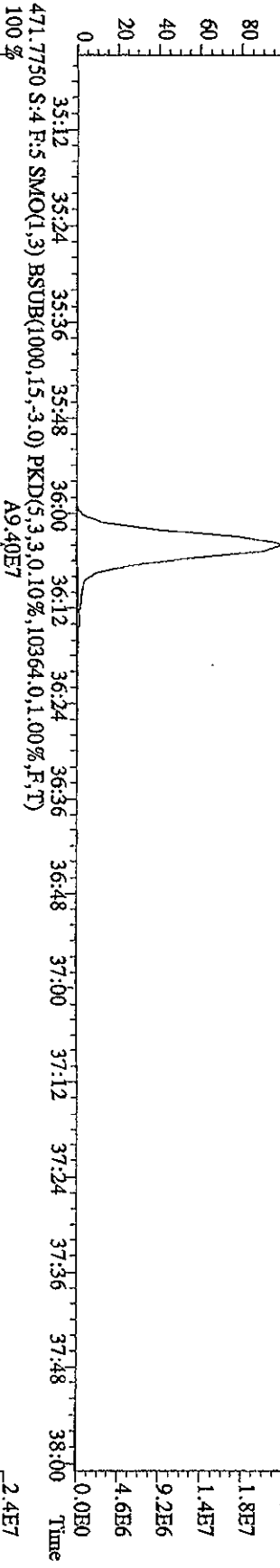
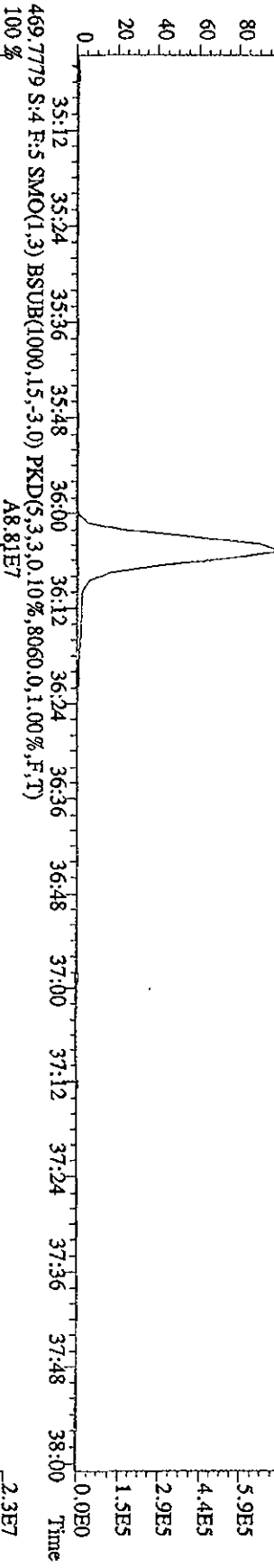
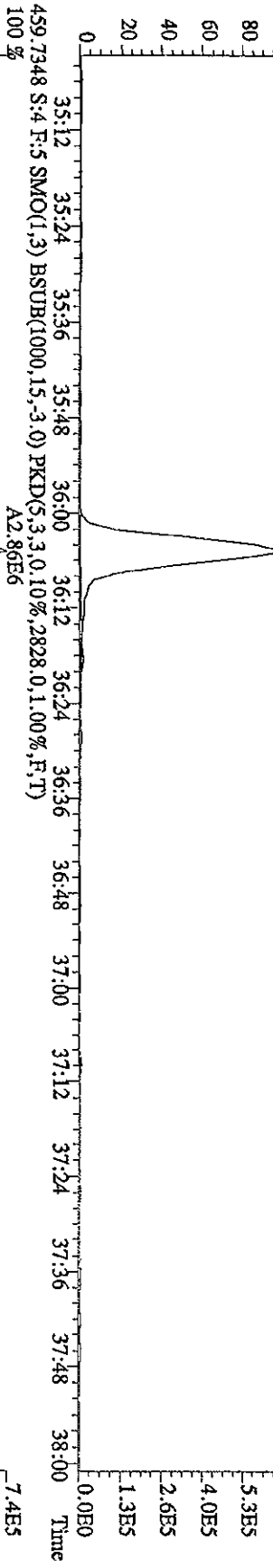
File:14SEI01D5 #L-203 Acq:14-SEP-2010 12:45:23 GC EI + Voltage SFR 70SE  
 Sample#4 Text:ST0914B :CSI 10DXN342 Exp:DIOXINRES  
 423.7766 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5556,0.1,00%,F,T)  
 100 % A2.15E6



File: 14SEI01D5 #1-196 Acq: 14-SEP-2010 12:45:23 GC EI + Voltage SIR 70SE  
 Sample#4 Text: ST0914B :CS1 10DXN342 Exp: DIOXINRES  
 441.7428 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3.0,10%,3704.0,1.00%,F,T)  
 100% A3.30E6

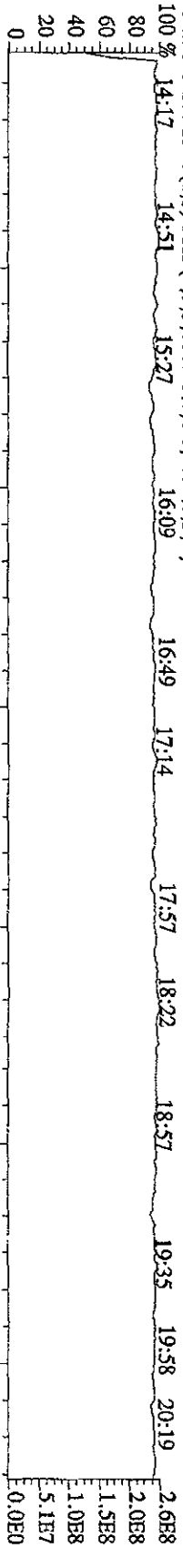


File:14SE101D5 #1-196 Acq:14-SEP-2010 12:45:23 GC EI+ Voltage SIR 70SE  
 Sample#4 Text:ST0914B :CSI 10DXN342 Exp:DIOXINRES  
 457.7377 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3.0,10%,3480,0,1.00%,F,T)  
 100% A2.47E6

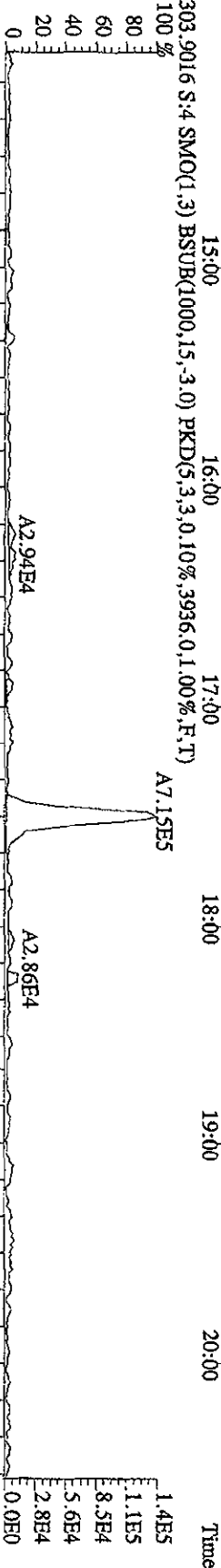




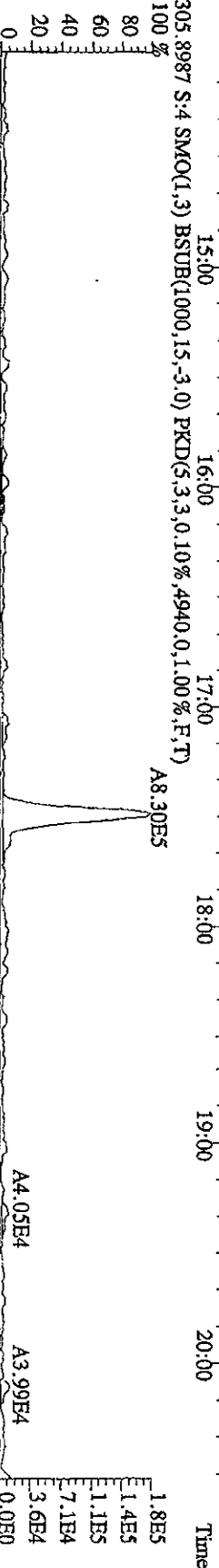
File: 14SEI01D5 #1-382 Acq: 14-SEP-2010 12:45:23 GC EI + Voltage SIR 70SE  
 Sample#4 Text: ST0914B :CSI 10DXN342 Exp: DIOXINRES  
 292.9825 S:4 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)  
 100% 14:17 14:51 15:27 16:09 16:49 17:14 17:57 18:22 18:57 19:35 19:58 20:19



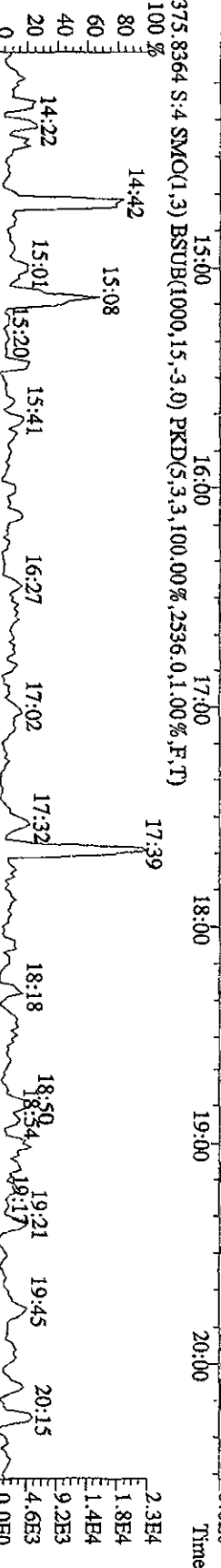
303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3936,0,1.00%,F,T)  
 100% 15:00 16:00 17:00 18:00 19:00 20:00



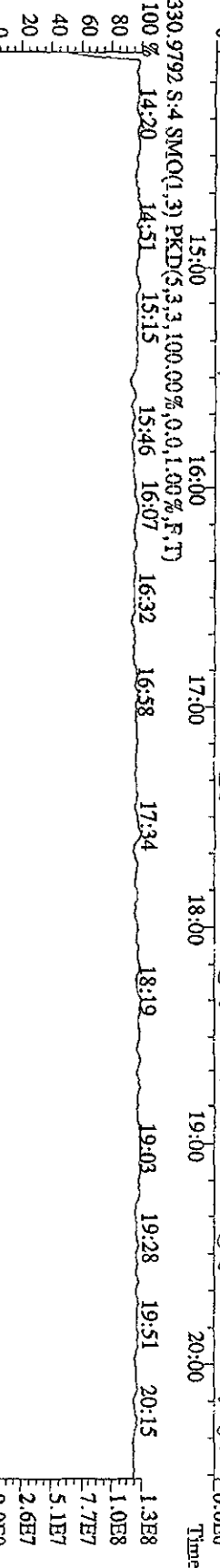
305.8987 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4940,0,1.00%,F,T)  
 100% 15:00 16:00 17:00 18:00 19:00 20:00



375.8364 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2536,0,1.00%,F,T)  
 100% 14:42 15:08 15:20 15:41 16:00 16:27 17:02 17:32 17:39 18:00 18:18 18:50 18:54 19:03 19:21 19:45 20:00 20:15

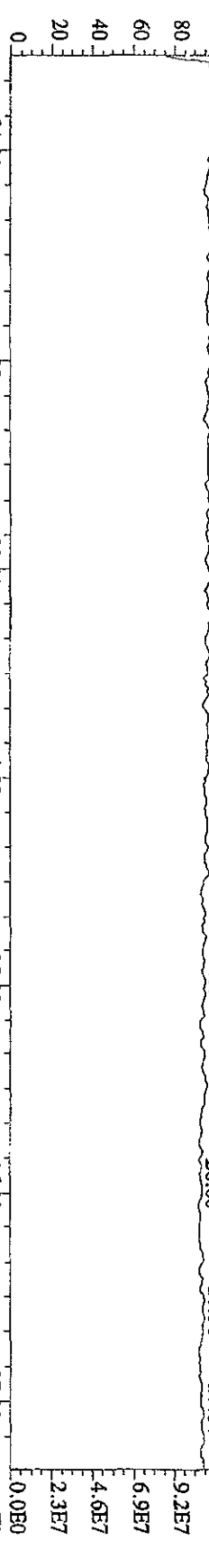


330.9792 S:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100% 14:20 14:51 15:15 15:46 16:07 16:32 16:58 17:34 18:19 19:03 19:28 19:51 20:15

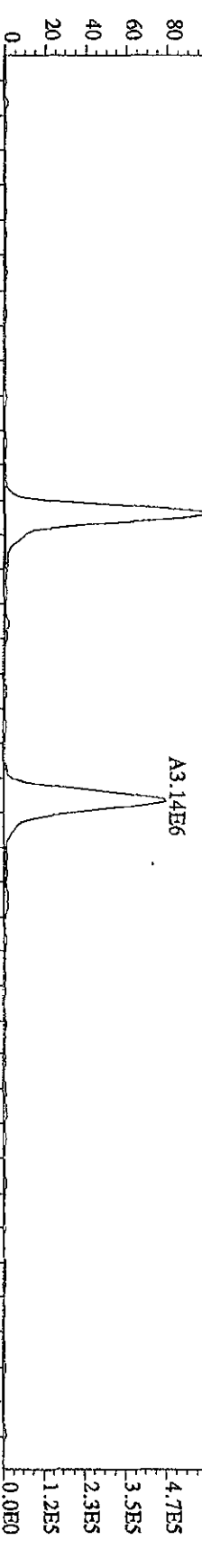


File: 14SE101D5 #1-422 Acq: 14-SEP-2010 12:45:23 GC EI + Voltage: SFR 70SE  
 Sample#4 Text: ST0914B : CSI 10DXN342 Exp: DIOXINRES

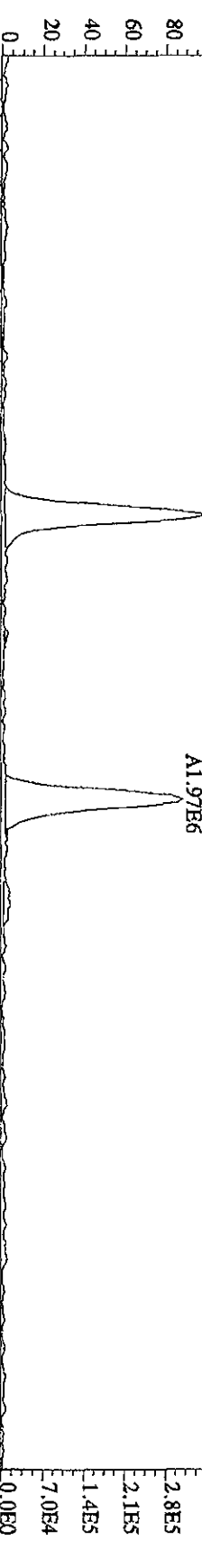
342.9792 S:4 F:2 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)  
 100% 20:49 21:33 22:01 22:41 23:13 23:36 23:57 24:27 24:59 25:29 26:00 26:36 27:04



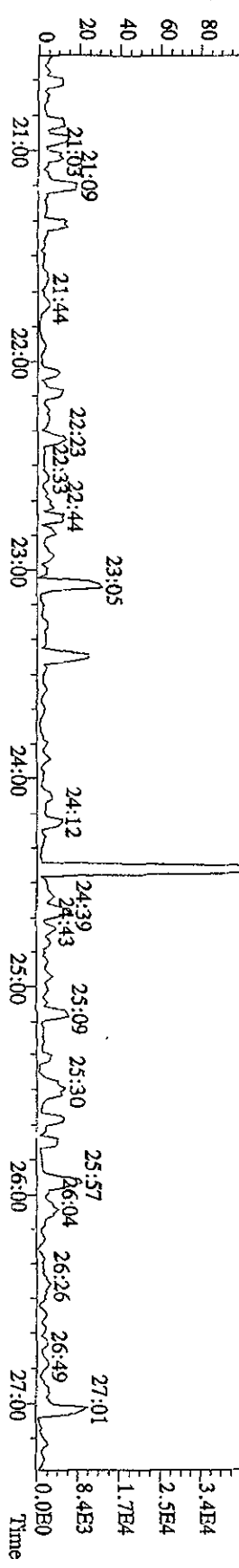
339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3448,0,1,00%,F,T)  
 100% 21:00 22:00 23:00 24:00 25:00 26:00 27:00



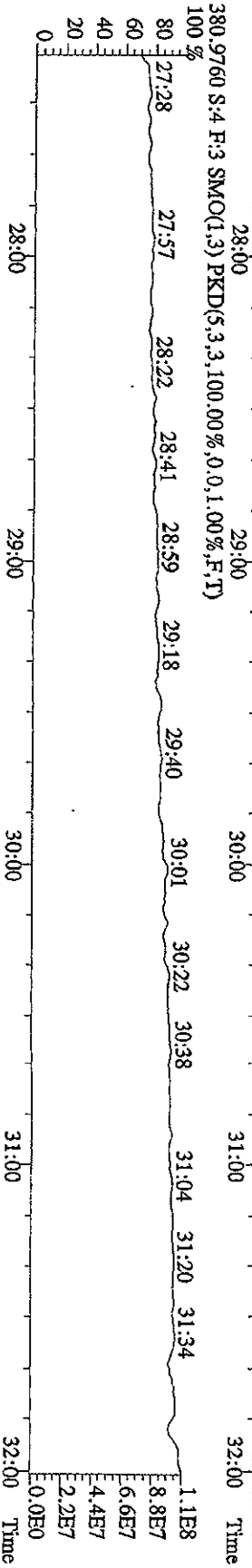
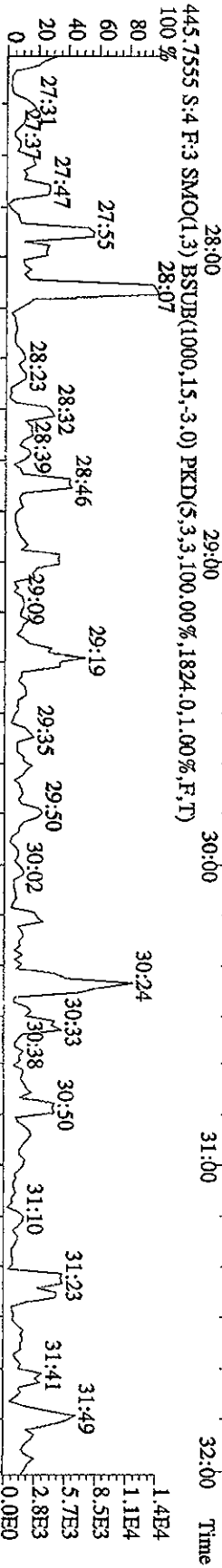
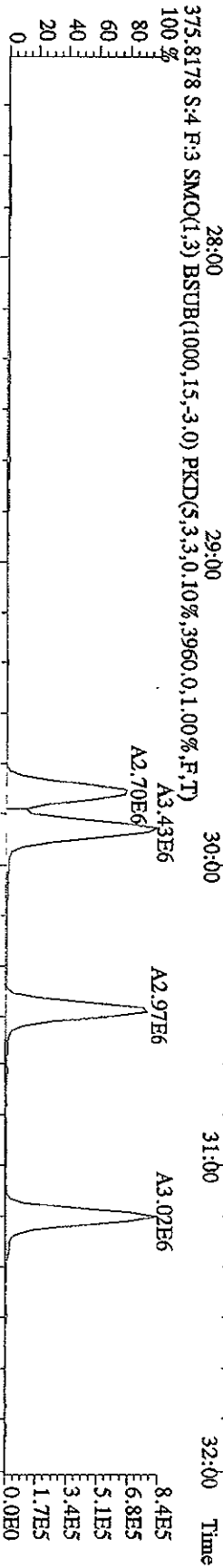
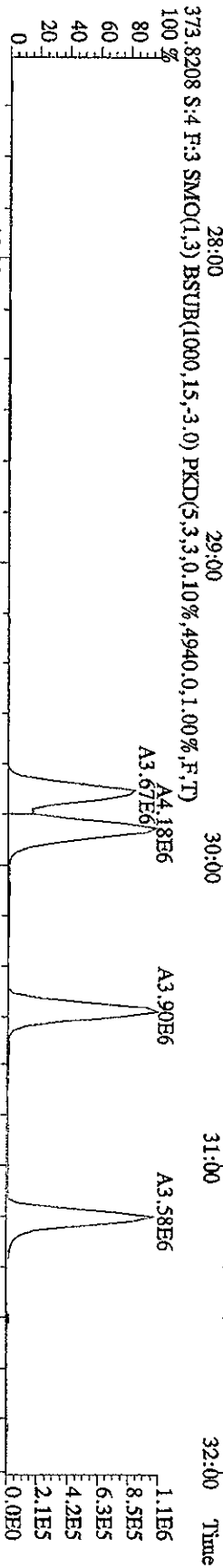
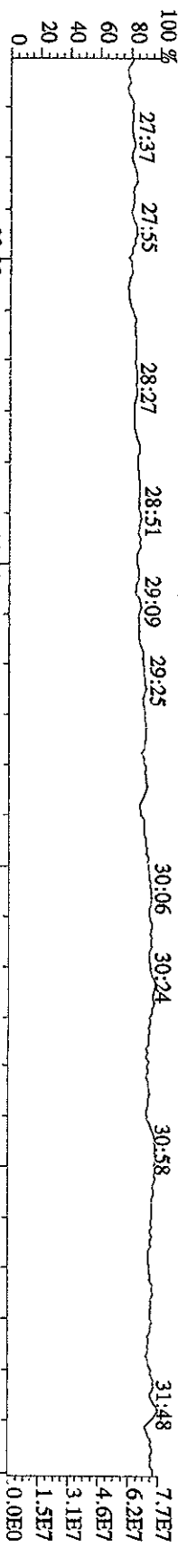
341.8567 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5868,0,1,00%,F,T)  
 100% 21:00 22:00 23:00 24:00 25:00 26:00 27:00



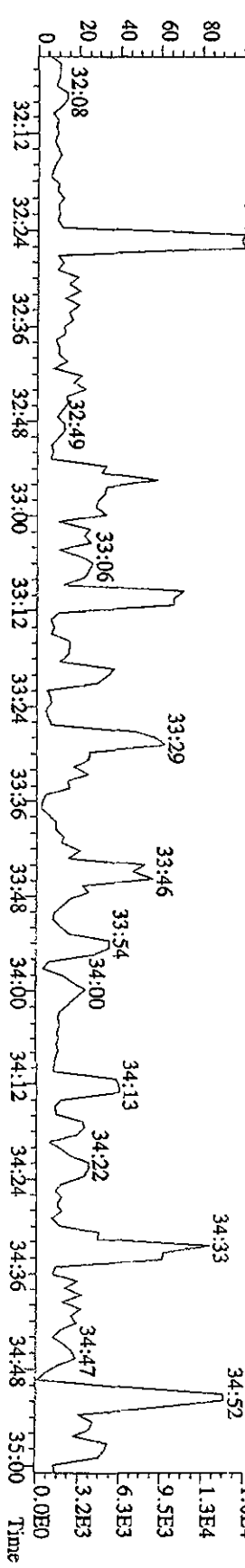
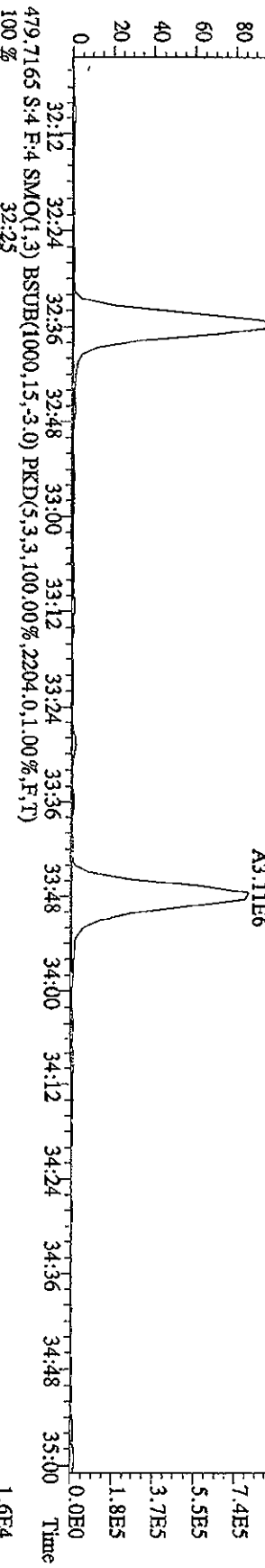
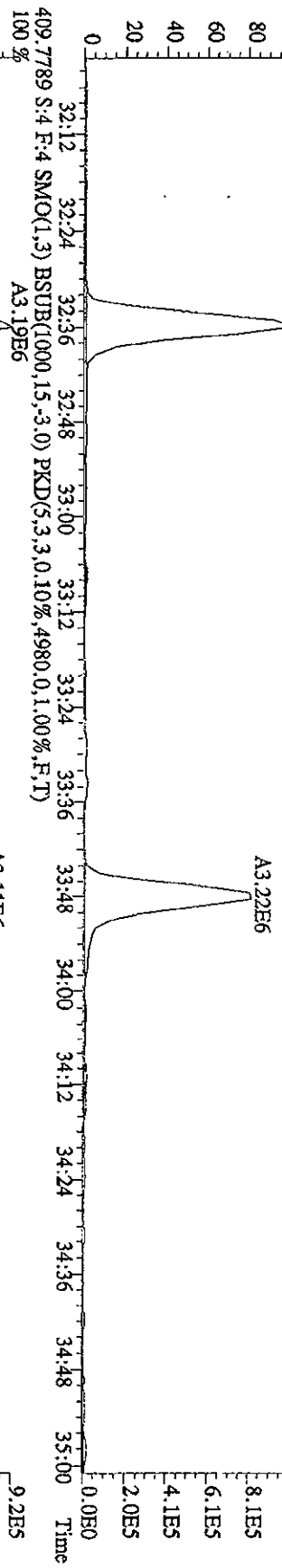
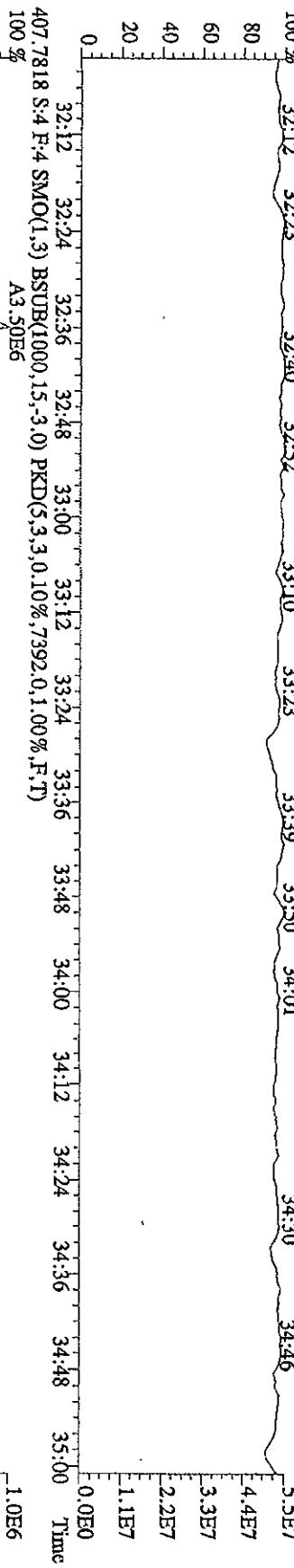
409.7974 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,2048,0,1,00%,F,T)  
 100% 21:00 22:00 23:00 24:00 25:00 26:00 27:00



File:14SEI01D5 #1-301 Acq:14-SEP-2010 12:45:23 GC EI+ Voltage SIR 70SE  
 Sample#4 Text:ST0914B :CSI 10DXN342 Exp:DI0XNRES  
 392.9760 S:4 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 380.9760 S:4 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

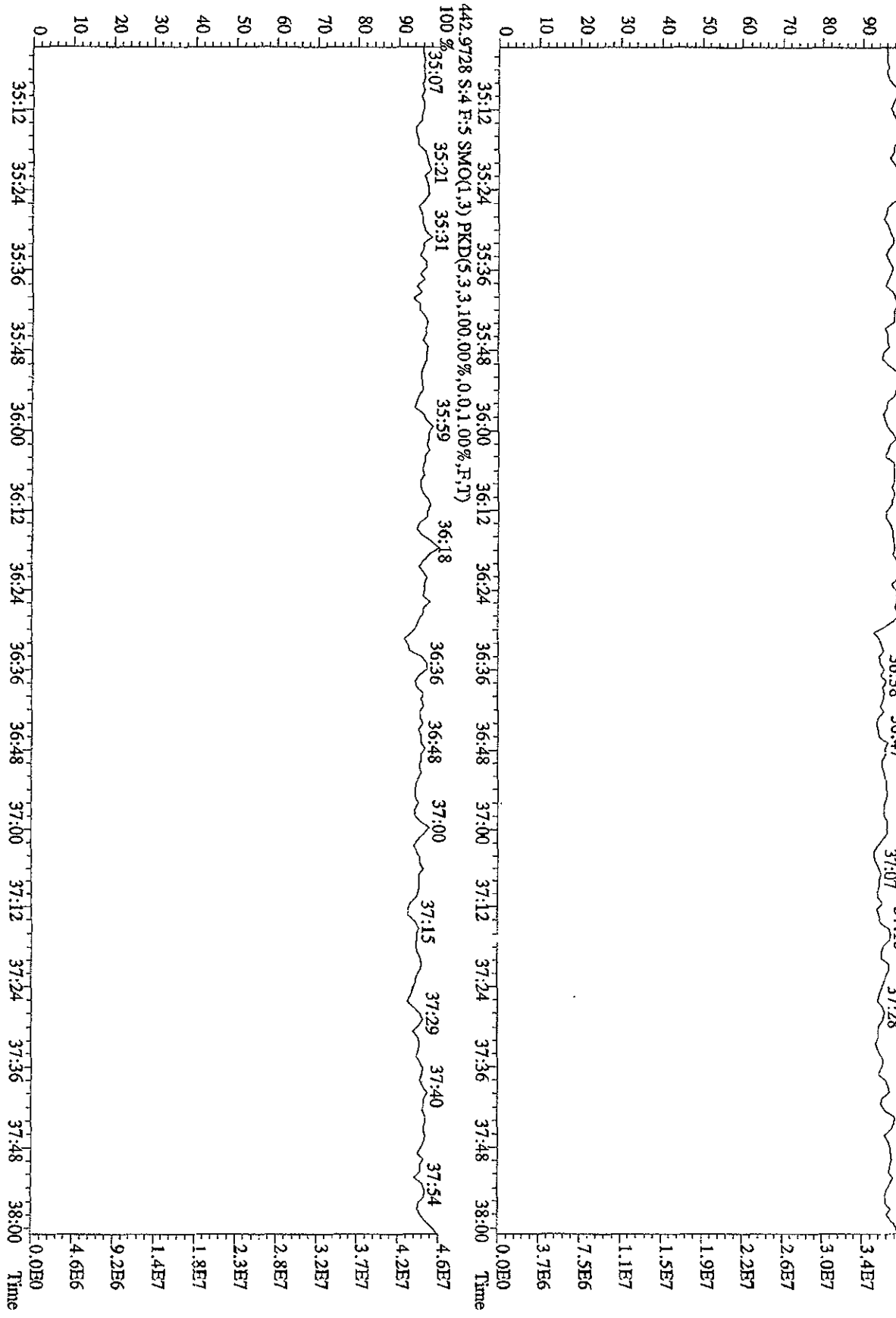


File:14SE101D5 #1-203 Acq:14-SEP-2010 12:45:23 GC EI + Voltage SIR 70SE  
 Sample#4 Text:ST0914B :CSI 10DXN342 Exp:DIOXINRES  
 430.9728 S:4 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100 % 32:12 32:23 32:40 32:52 33:10 33:23 33:39 33:50 34:01 34:30 34:46

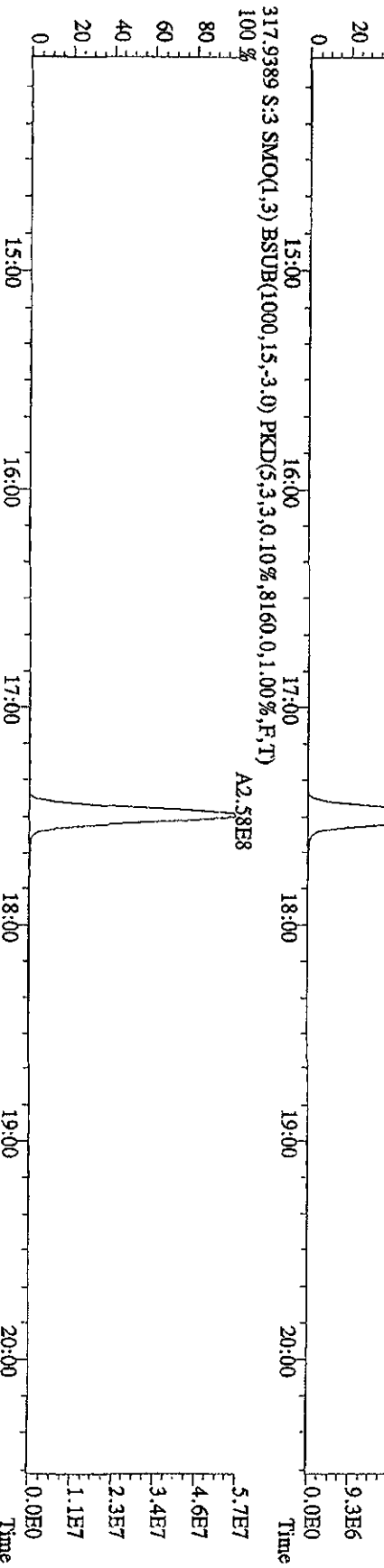
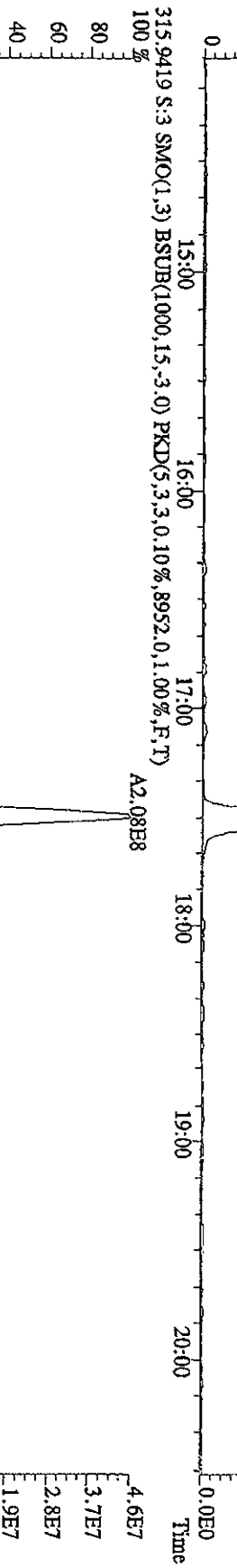
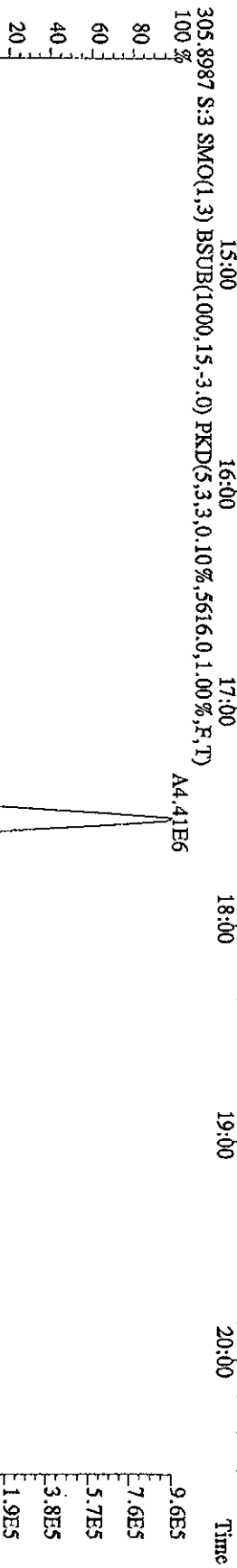
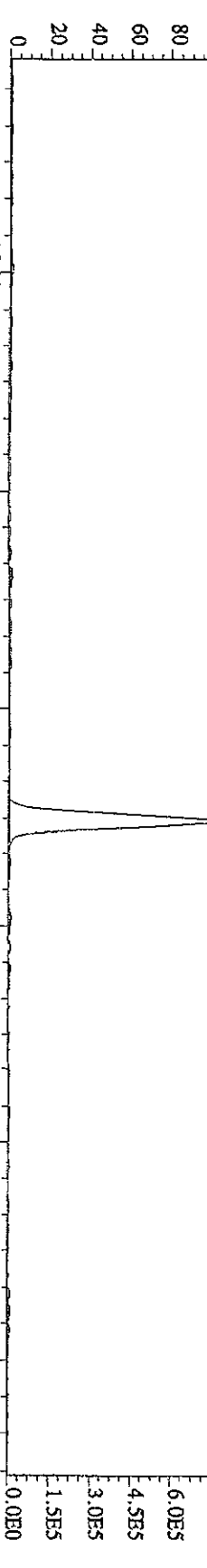


File: 14SE101D5 #1-196 Acq: 14-SEP-2010 12:45:23 GC EI+ Voltage SIR 70SE  
 Sample#4 Text: ST0914B :CSI 10DXN342 Exp: DIOXINES

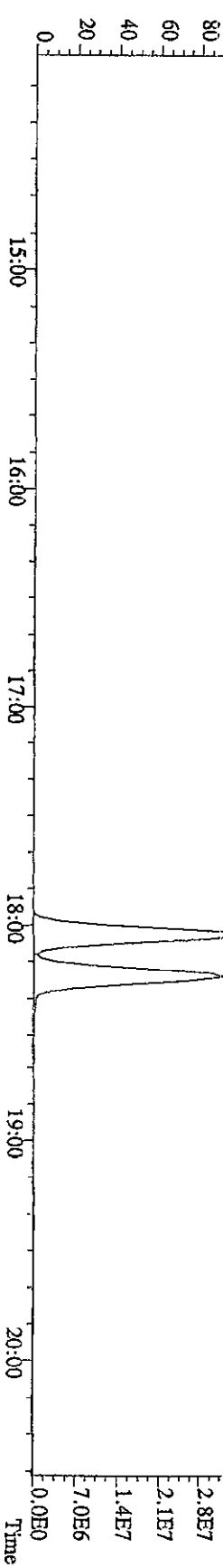
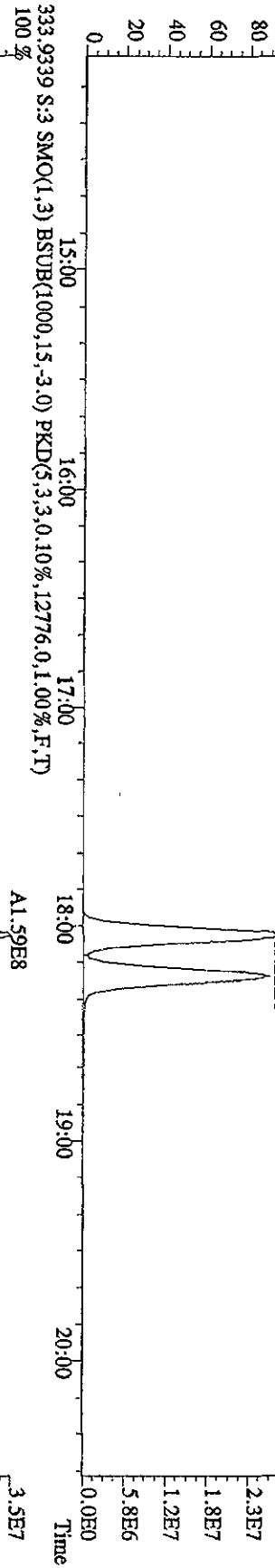
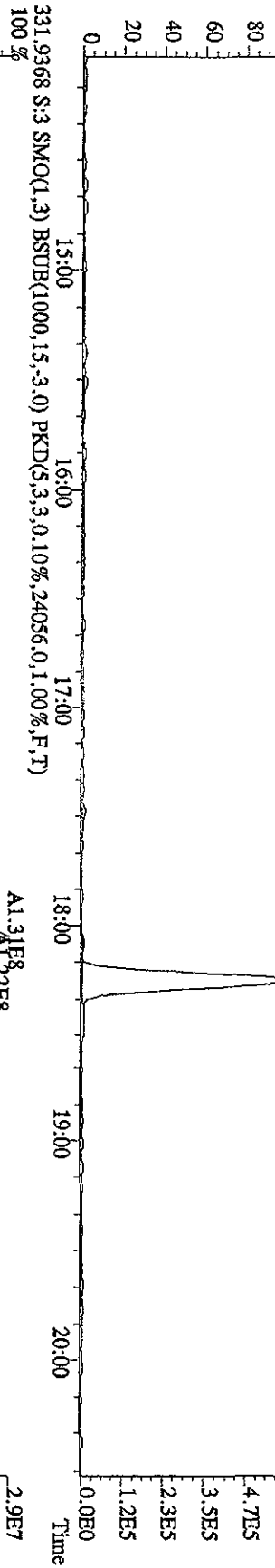
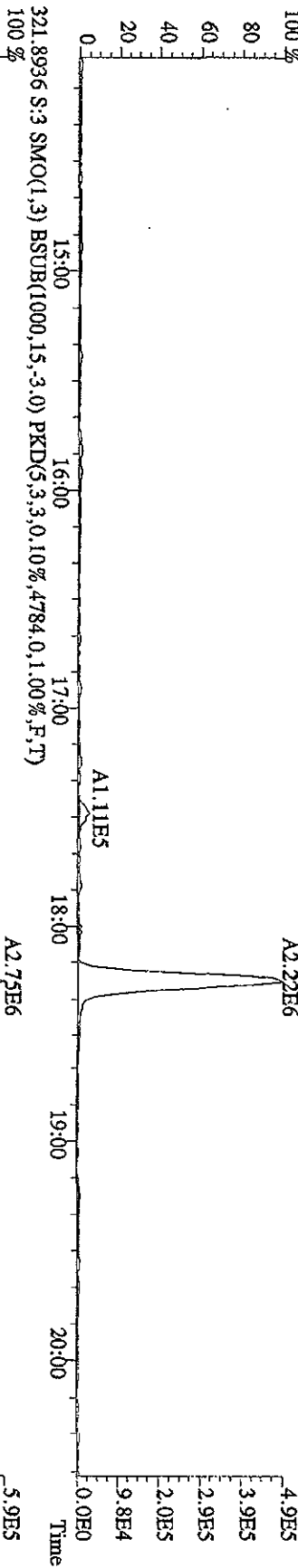
454.9728 S:4 F:5 SMO(1.3) PKD(5,3,3,100.00% 0.0,1.00%,F,T)  
 100% 35:09 35:22 35:32 35:41 35:53 36:09 36:21 36:38 36:47 37:07 37:16 37:28 37:43



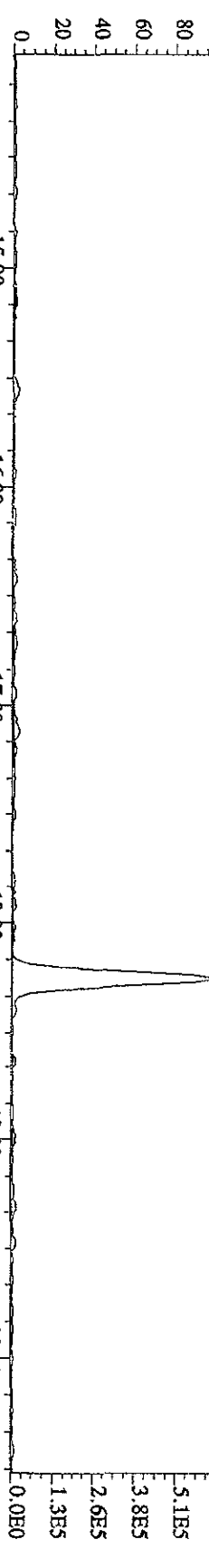
File:14SEI01D5 #1-382 Acq:14-SEP-2010 12:02:26 GC EI+ Voltage SIR 70SE  
Sample#3 Text:ST0914A :CS2 10DXN335 Exp:DIOXINRES  
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2892.0,1.00%,F,T)  
100%



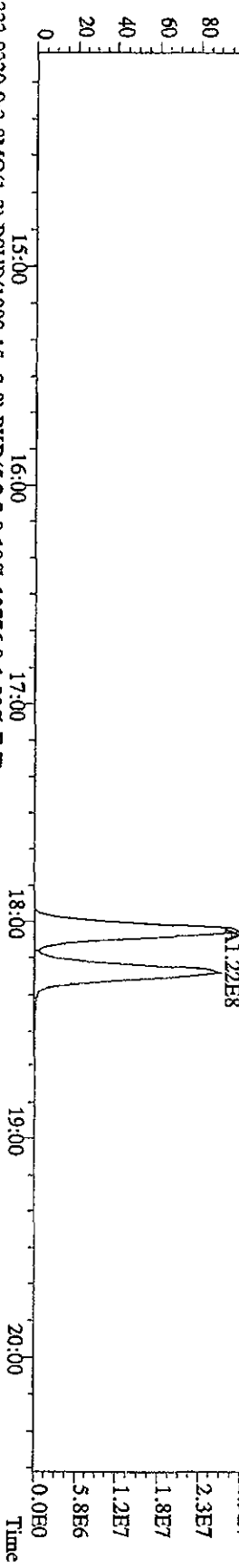
File: 14SEP101D5 #1-382 Acq: 14-SEP-2010 12:02:26 GC EI+ Voltage: STR 70SE  
 Sample#3 Text: ST0914A :CS2 10DXN335 Exp.: DIOXINRES  
 319.8965 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3512,0,1,00%,F,T)



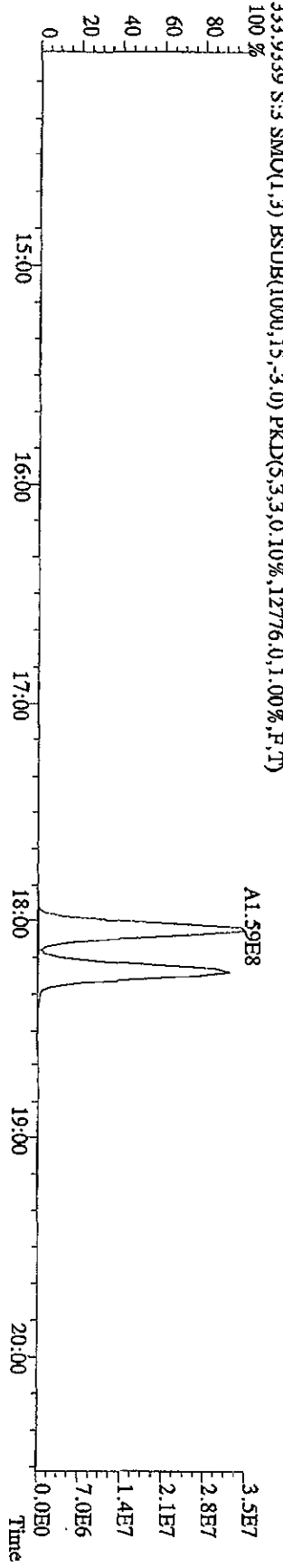
File: 14SE1011D5 #1-382 Acq: 14-SEP-2010 12:02:26 GC EI + Voltage SIR 70SE  
 Sample#3 Text: ST0914A :CS2 10DXN335 Exp: DIOXINRES  
 327.8847 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5132,0,1.00%,F,T)  
 100%



331.9368 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,24056,0,1.00%,F,T)  
 100%



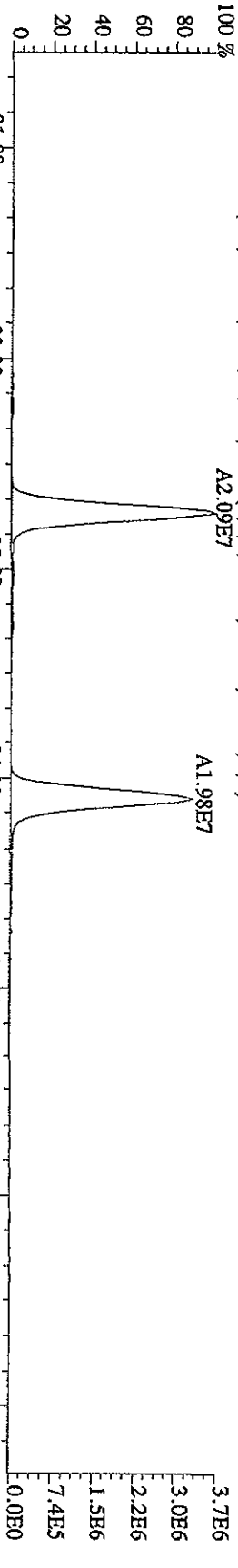
333.9339 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,12776,0,1.00%,F,T)  
 100%



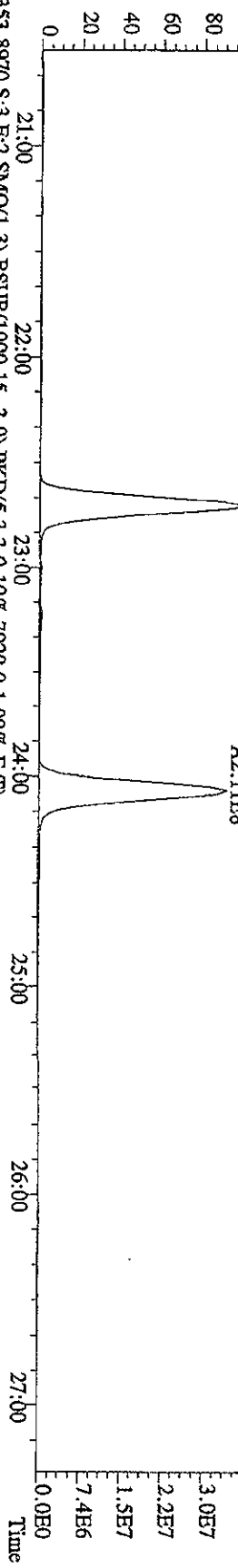


File: 14SE101D5 #1-422 Acq: 14-SEP-2010 12:02:26 GC EI+ Voltage STR 70SE

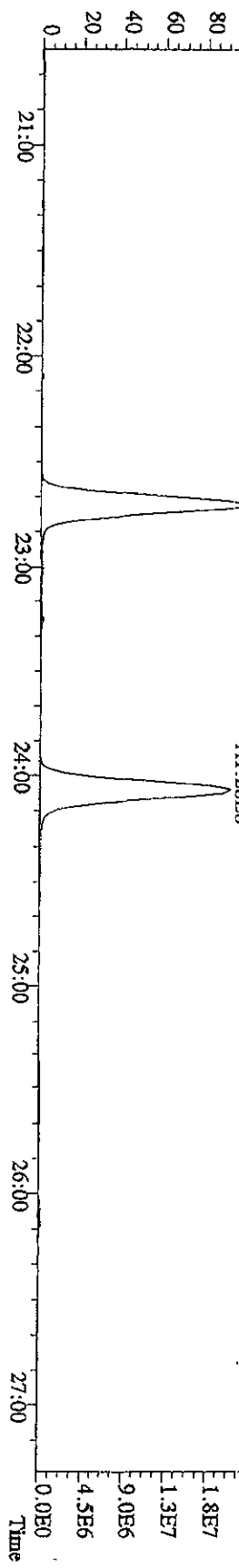
Sample#3 Text: ST0914A :CS2 10DXN335 Exp: DIOXINRES  
339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0.10%,3992.0,1.00%,F,T) A2.09E7



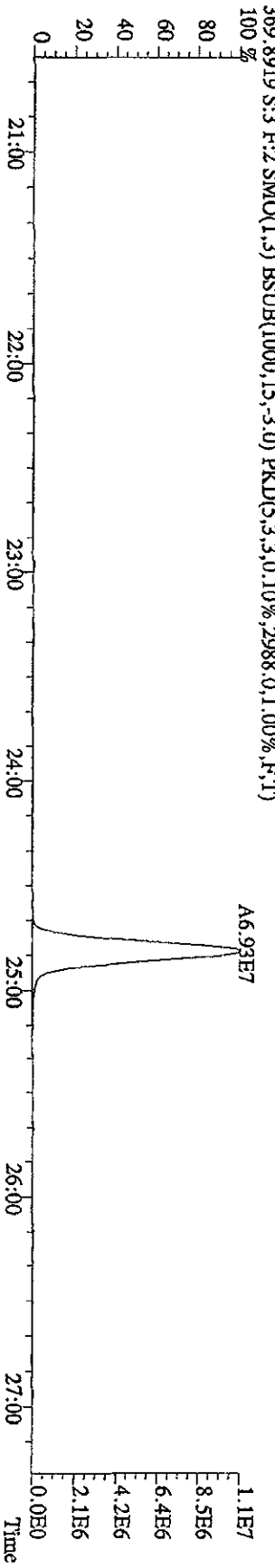
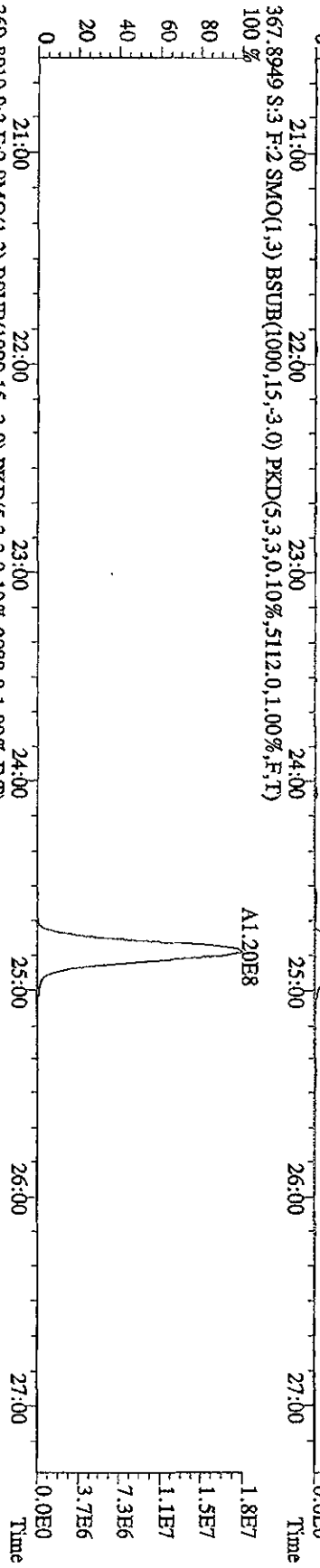
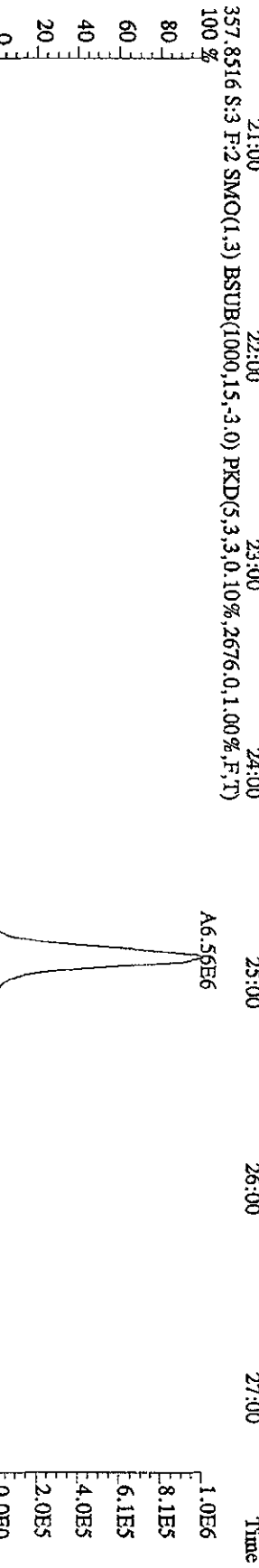
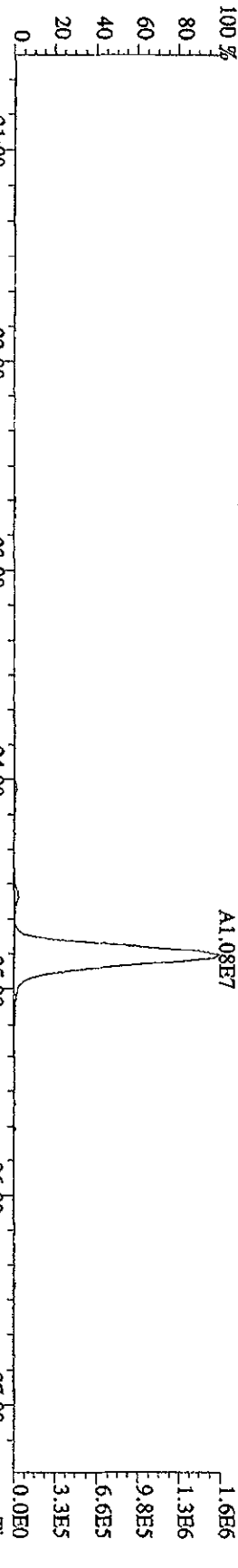
351.9000 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0.10%,6060.0,1.00%,F,T) A2.15E8



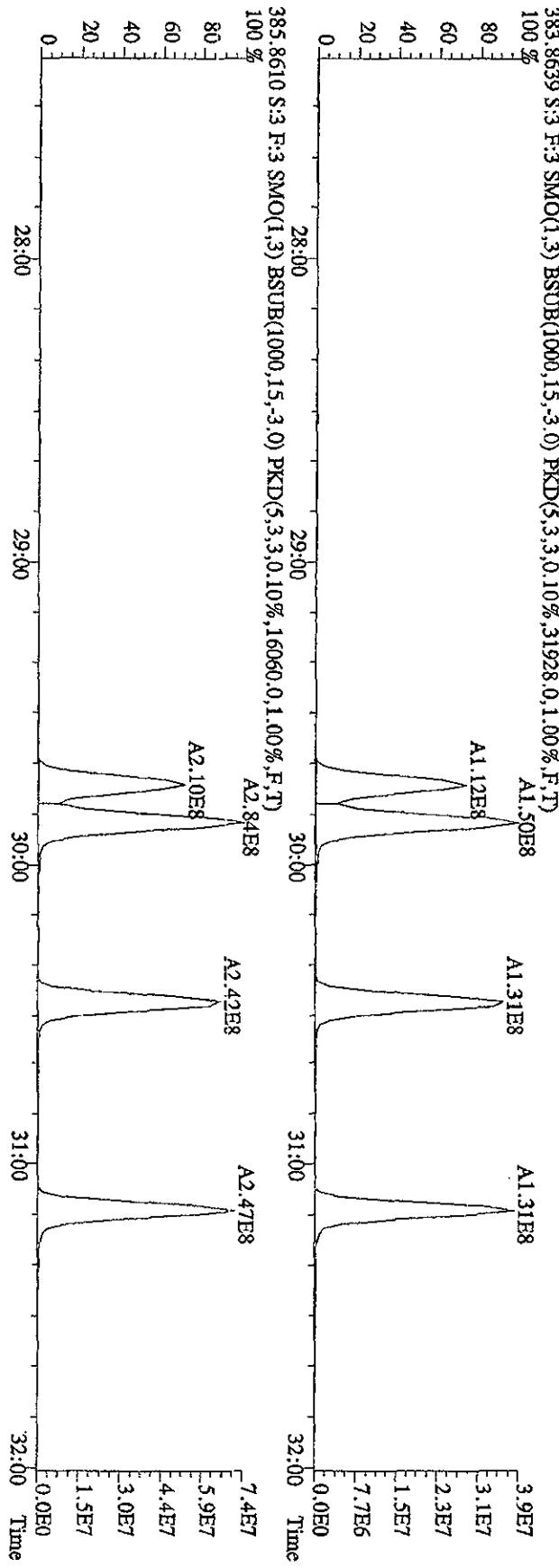
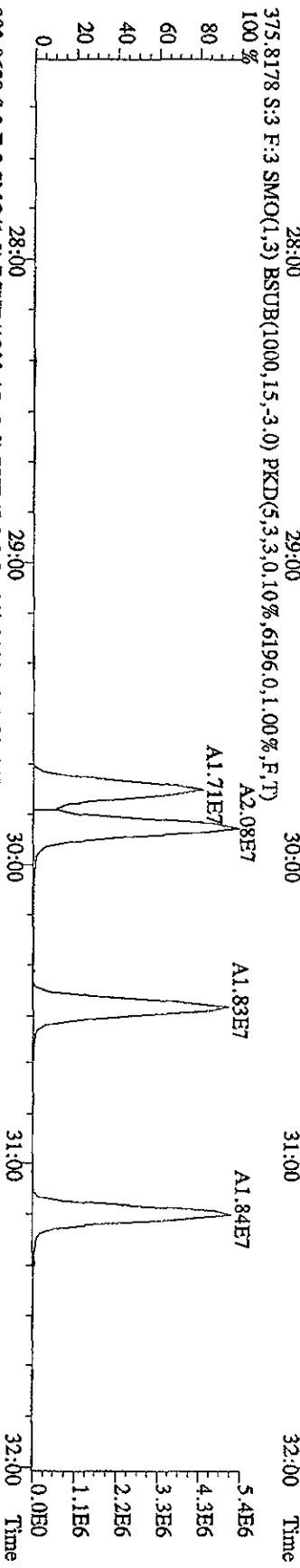
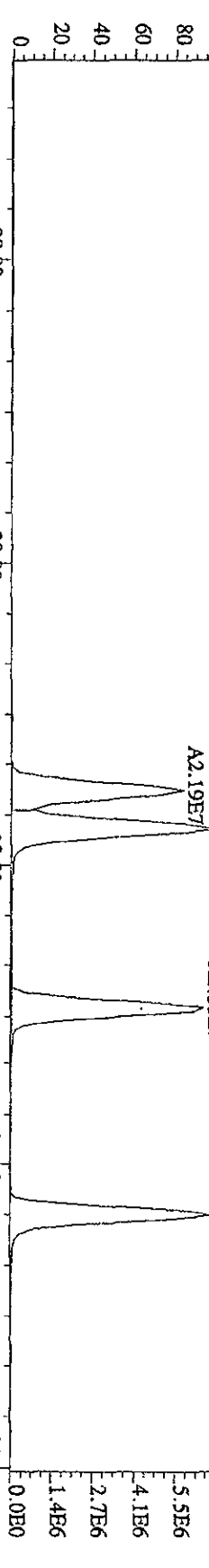
353.8970 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0.10%,7920.0,1.00%,F,T) A1.32E8



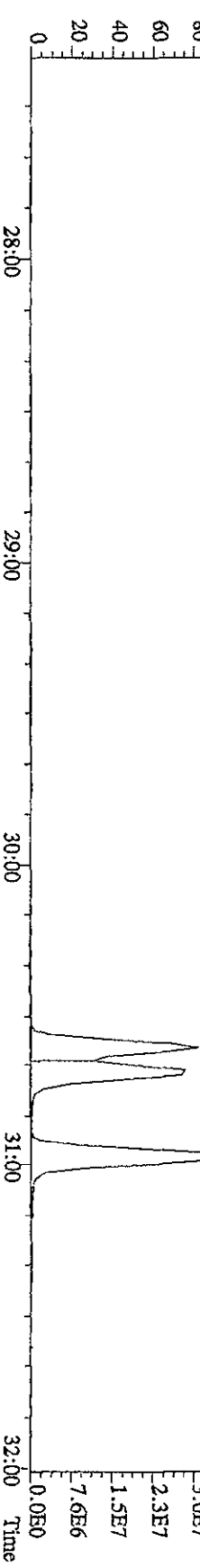
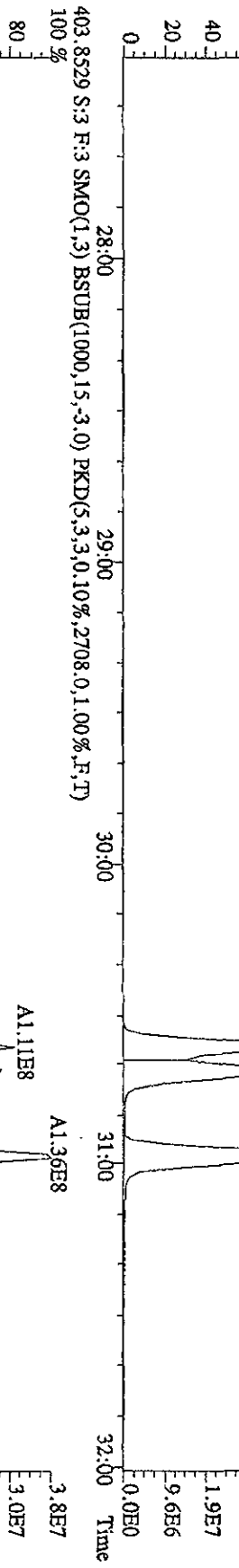
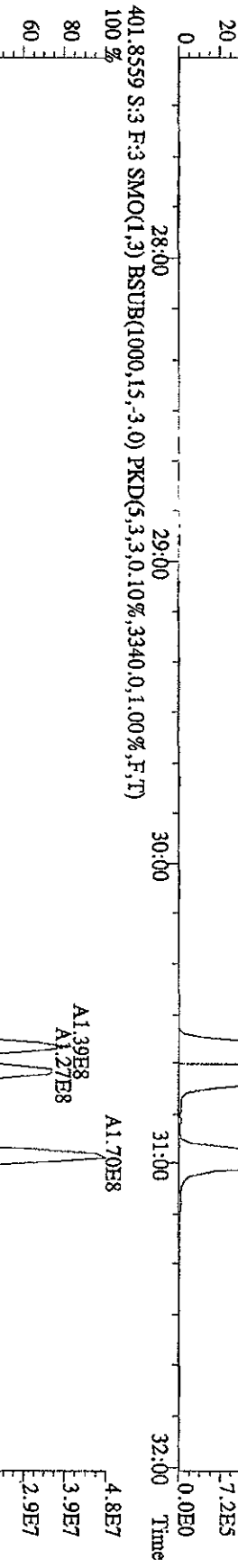
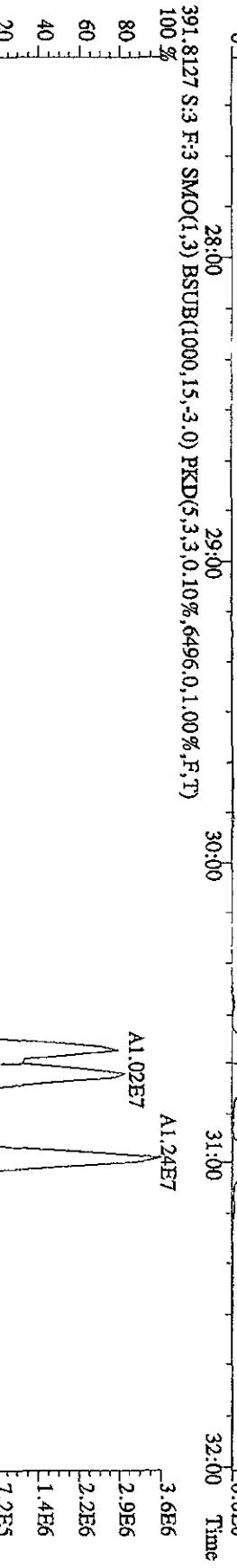
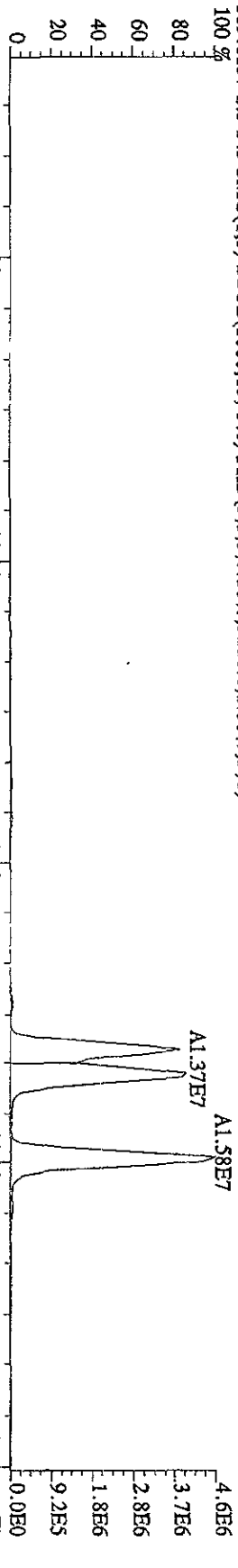
File: 14SEI01D5 #1-422 Acq: 14-SEP-2010 12:02:26 GC EI+ Voltage SIR 70SE  
 Sample#3 Text: ST0914A :CS2 10DXN335 Exp: DIOXINRES  
 355.8546 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4752.0,1.00%,F,T)  
 100%



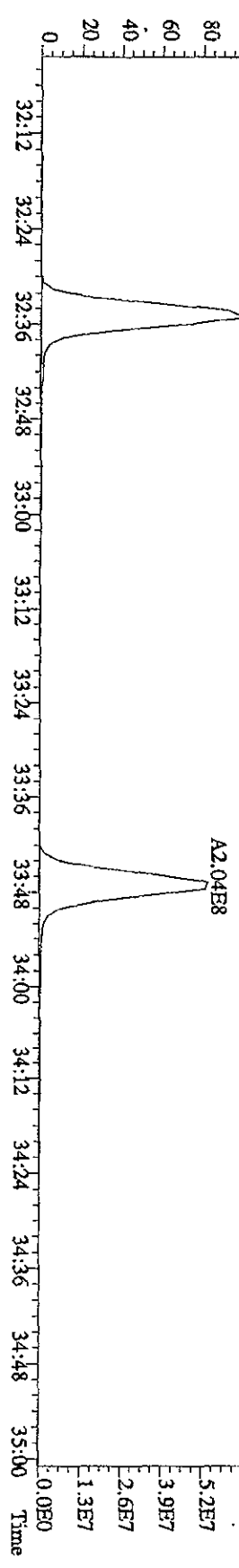
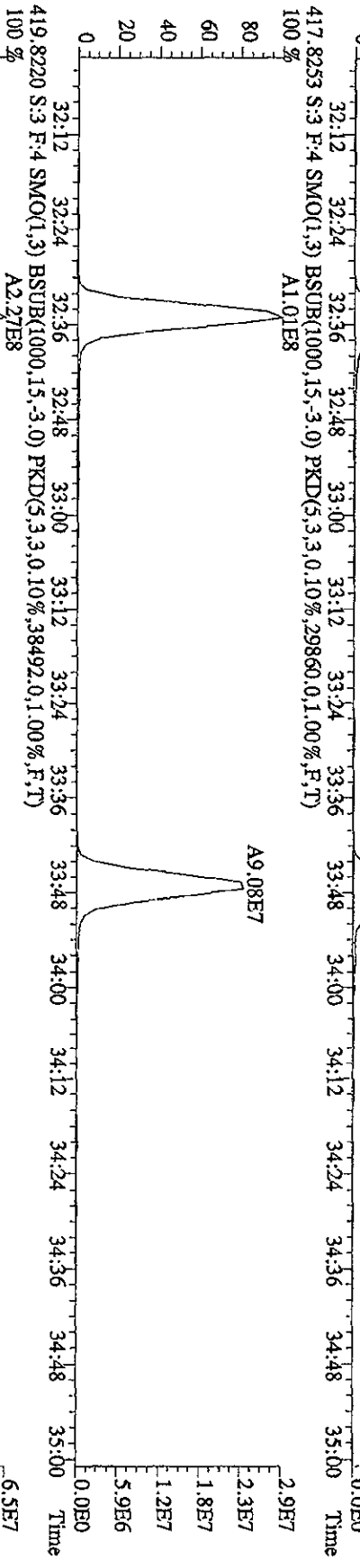
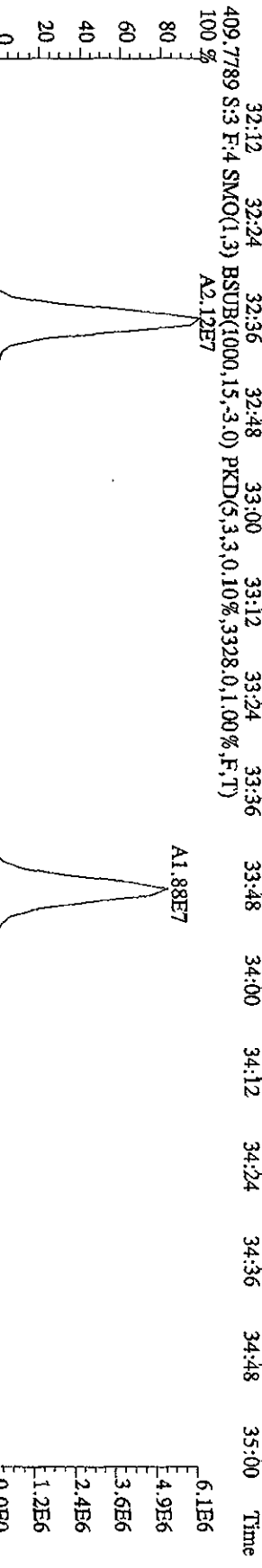
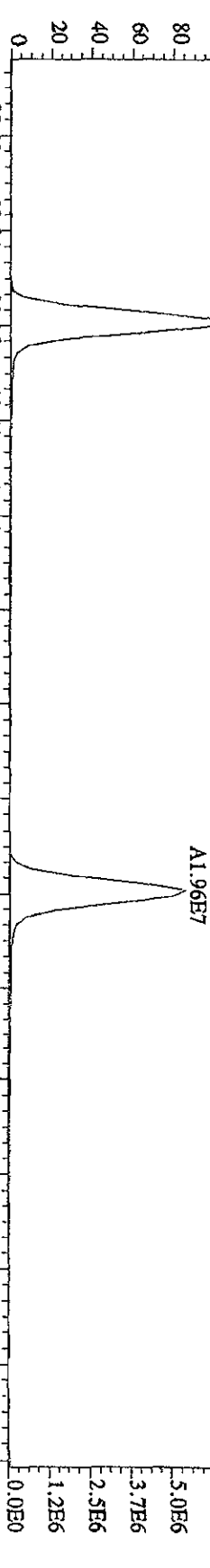
File:14SEP10ID5 #1-301 Acq:14-SEP-2010 12:02:26 GC EI+ Voltage SIR 70SE  
 Sample#3 Text:ST0914A :CS2 10DXN335 Exp.:DIOXINRES  
 373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9840.0,1.00%,F,T)



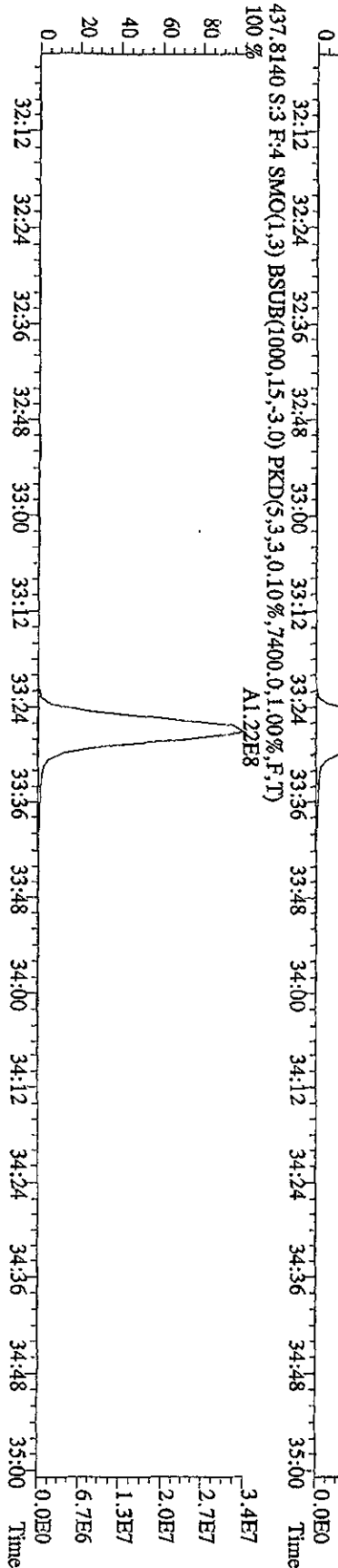
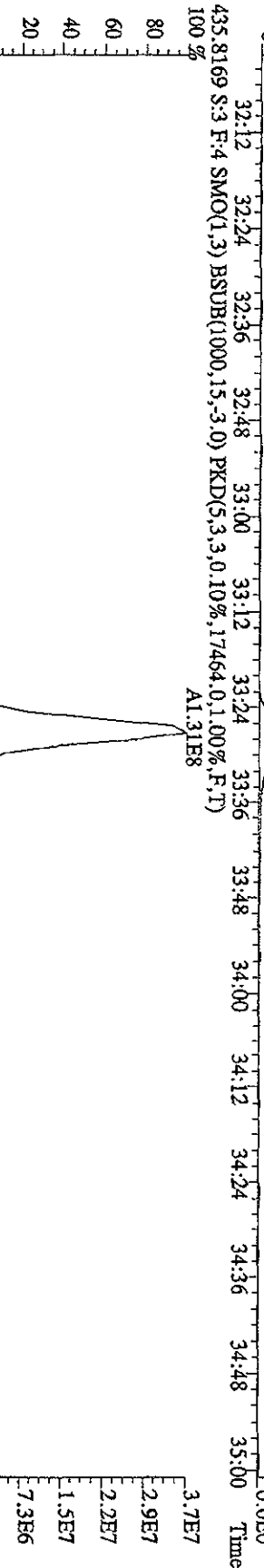
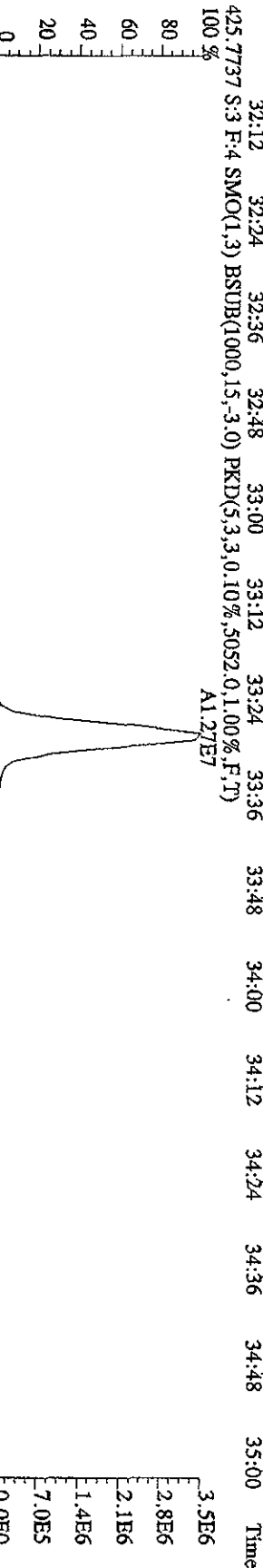
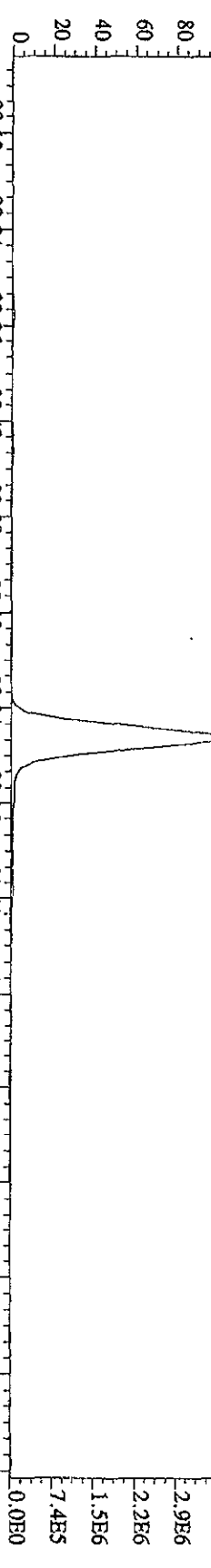
File: 14SEI01D5 #1-301 Acq: 14-SEP-2010 12:02:26 GC EI + Voltage SIR 70SE  
 Sample#3 Text: ST0914A :CS2 10DXN335 Exp: DIOXINRES  
 389.8157 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3216,0,1,00%,F,T)



File: 14SEP101D5 #1-203 Acq: 14-SEP-2010 12:02:26 GC EI+ Voltage SIR 70SE  
 Sample#3 Text: ST0914A :CS2 10DXN335 Exp: DIOXINRES  
 407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10608,0.1,00%,F,T)



File: 14SEI01D5 #1-203 Acq: 14-SEP-2010 12:02:26 GC EI + Voltage SIR 70SE  
 Sample#3 Text: ST0914A :CS2 10DXN335 Exp: DIOXINES  
 423.7766 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4228,0.1,00%,F,T)  
 100% A1.34E7

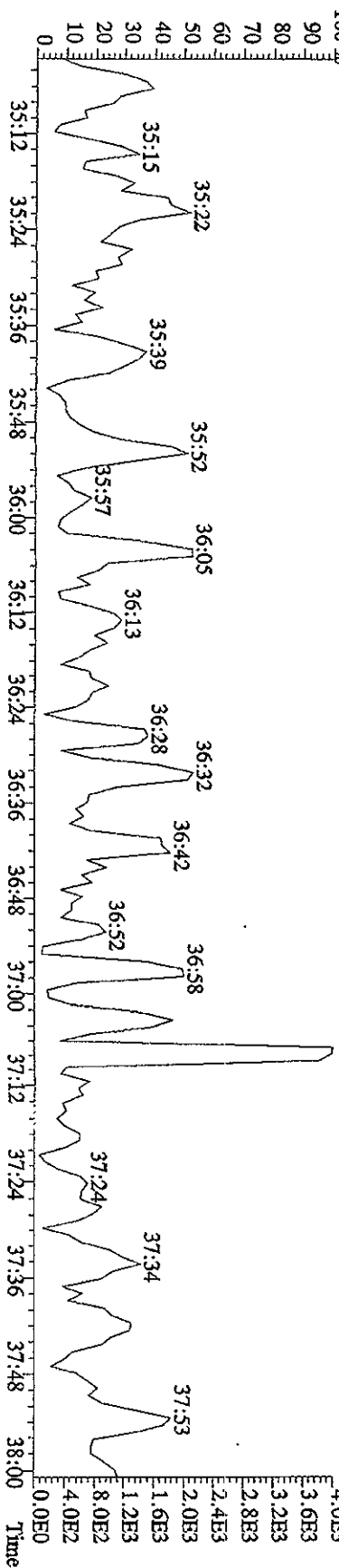
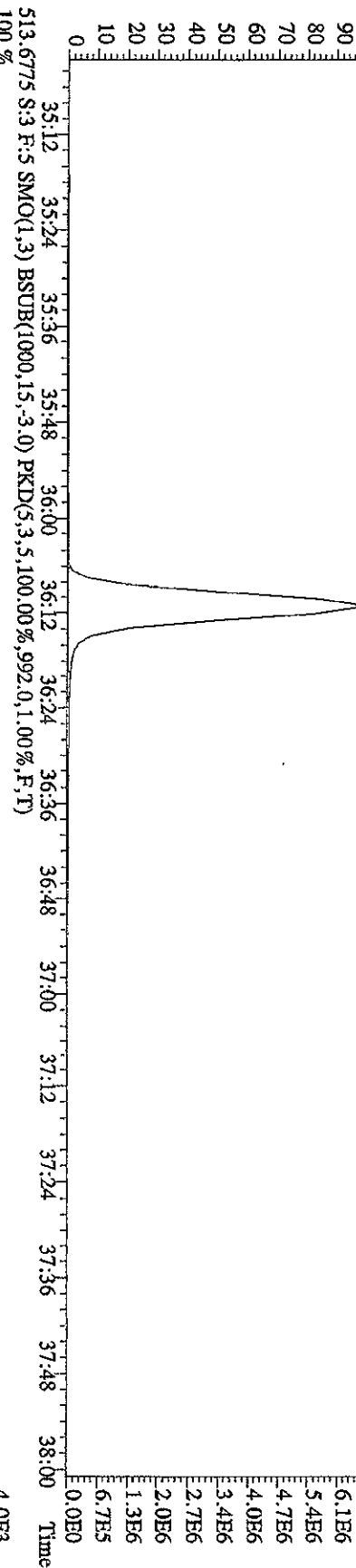
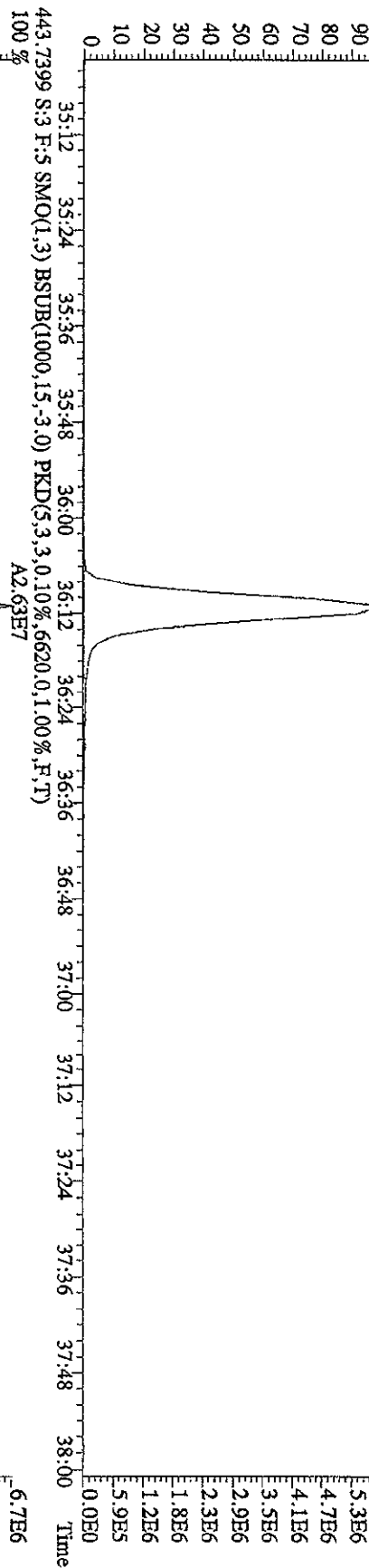


File: 14SEI01D5 #1-196 Acq: 14-SEP-2010 12:02:26 GC EI+ Voltage SIR 70SE

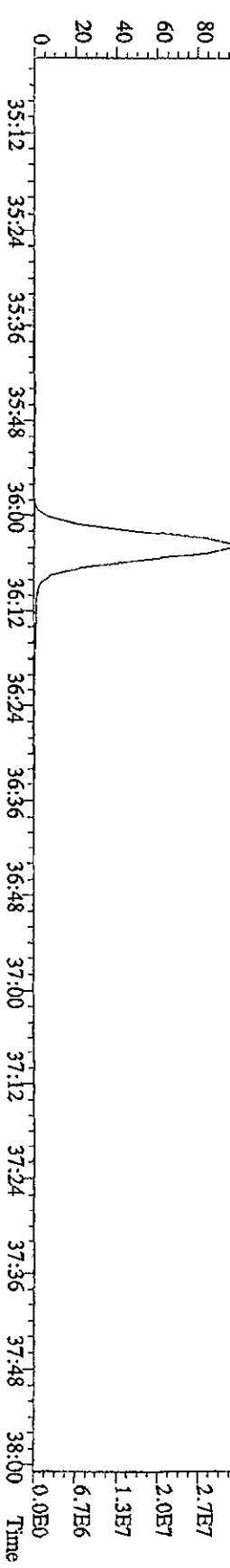
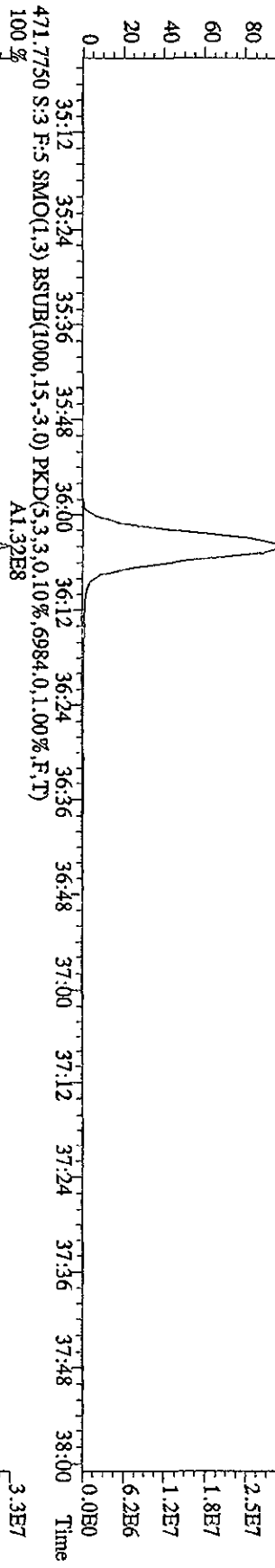
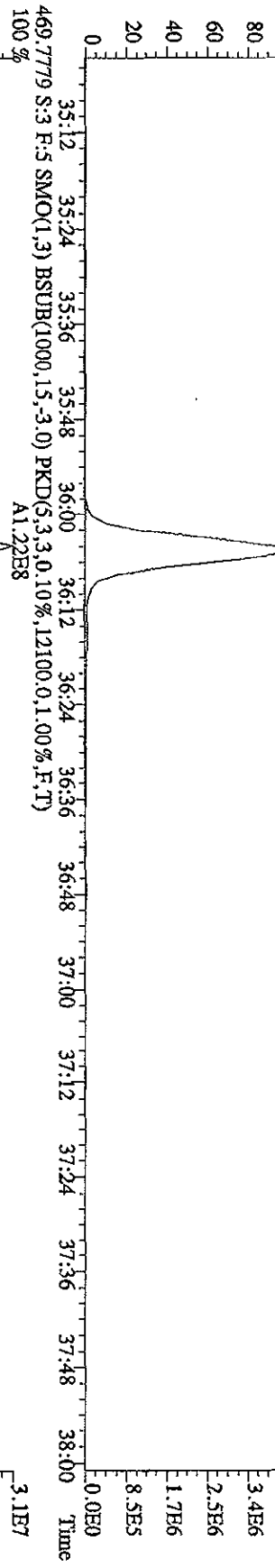
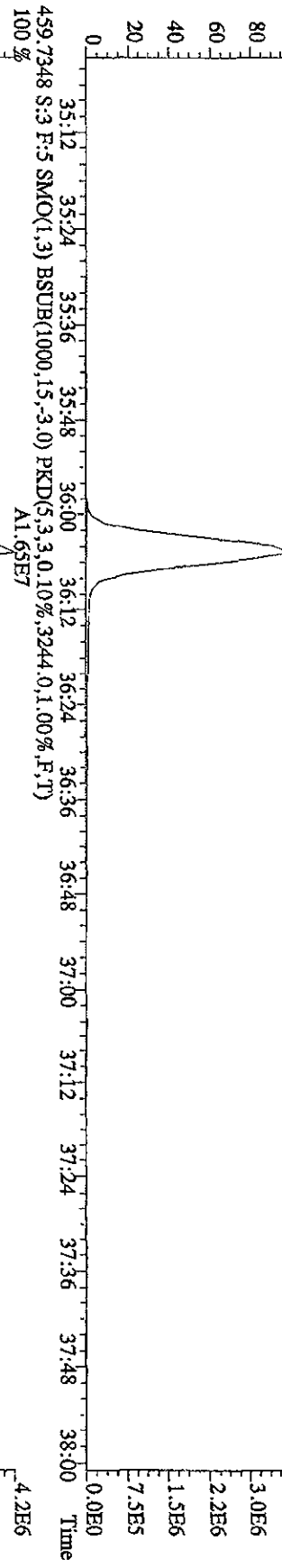
Sample#3 Text: ST0914A :CS2 10DXN335 Exp: DIOXINRES

441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4992,0,1,00%,F,T)

A2.32E7

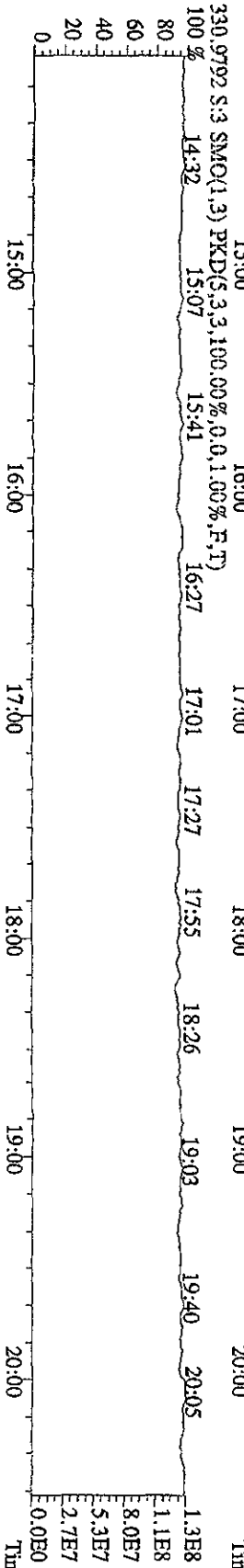
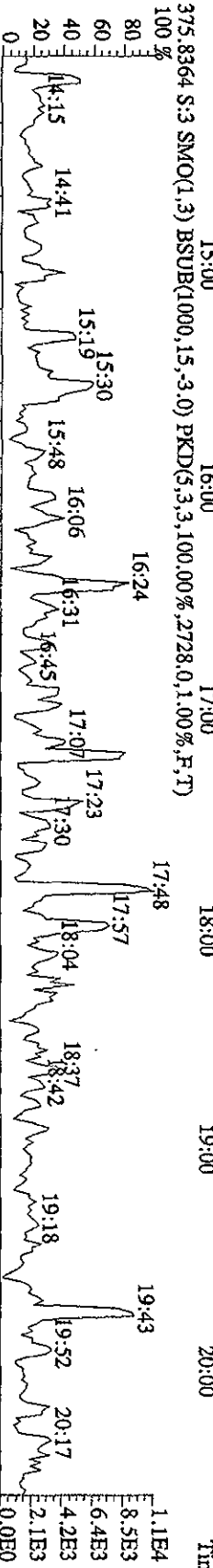
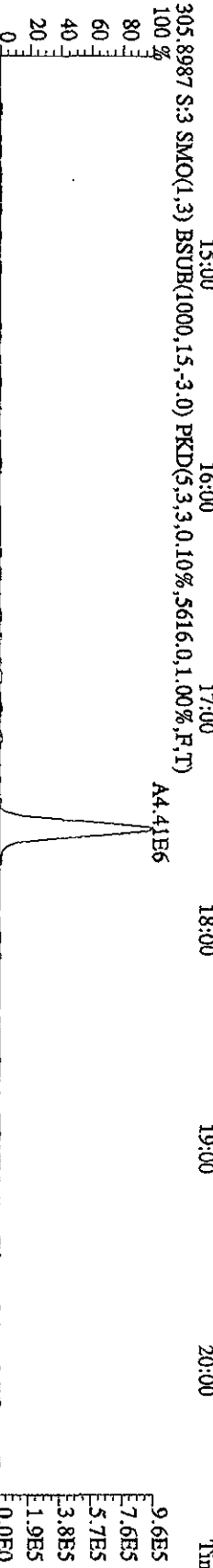
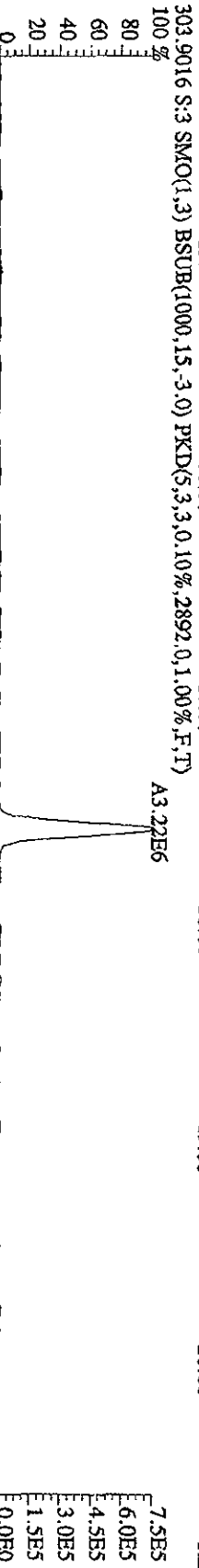
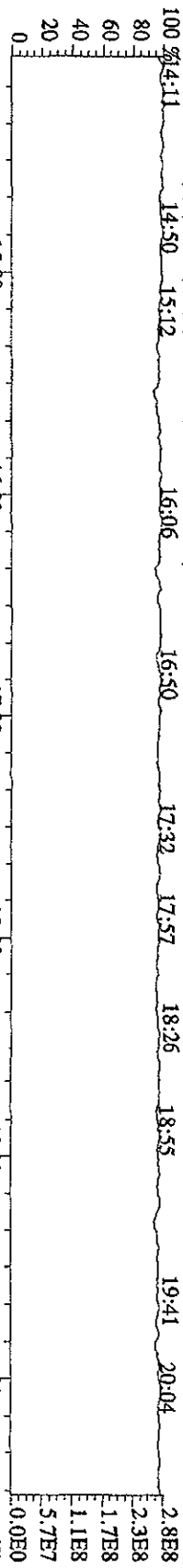


File:14SE10ID5 #1-196 Acq:14-SEP-2010 12:02:26 GC EI + Voltage SIR 70SE  
 Sample#3 Text:ST0914A :CS2 10DXN335 Exp:DI0XNRES  
 457.7377 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5104.0,1.00%,F,T)  
 100%



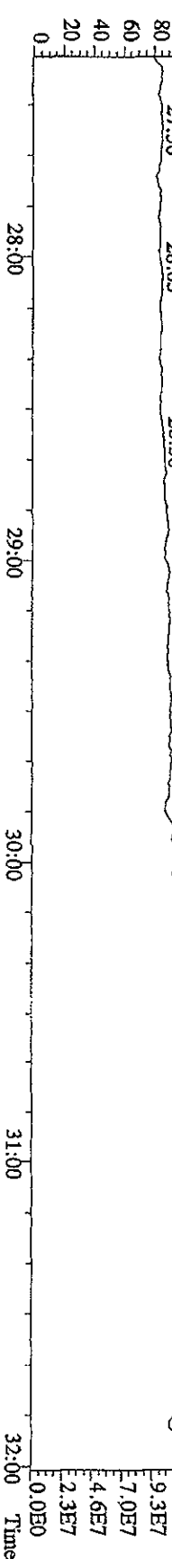
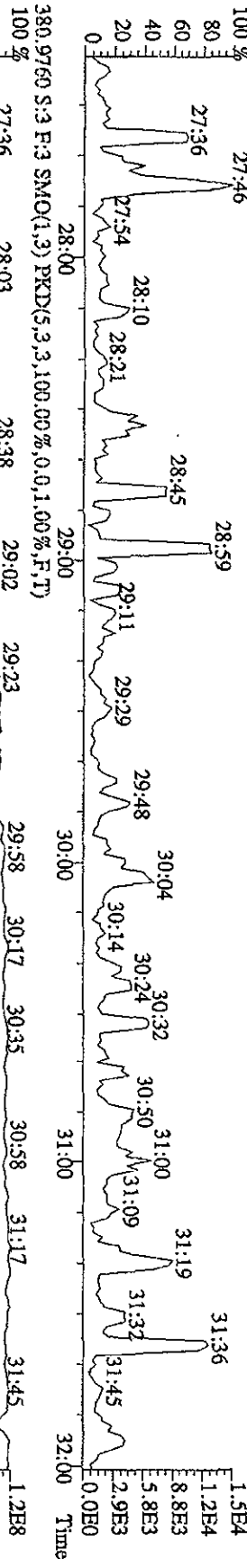
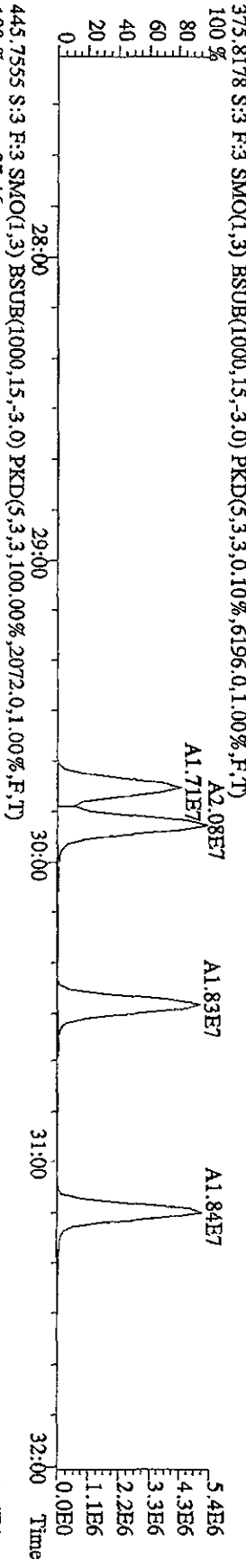
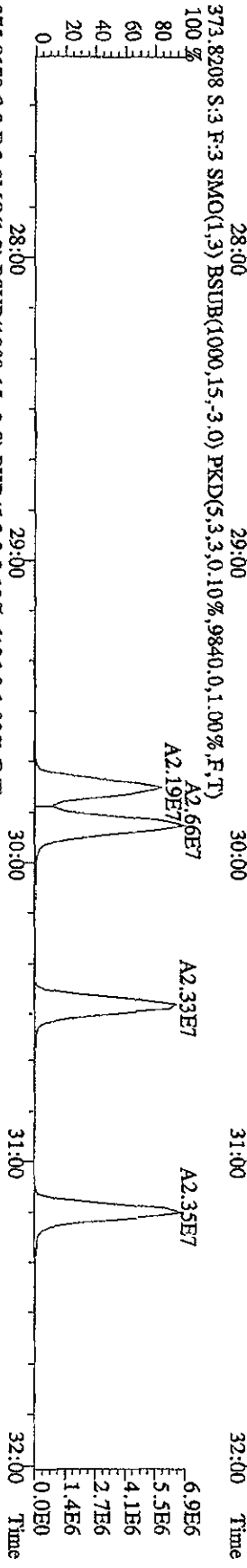
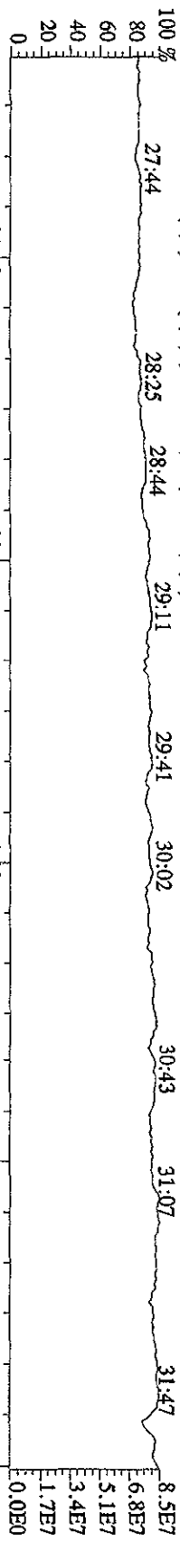


File: 14SEI01D5 #1-382 Acq: 14-SEP-2010 12:02:26 GC EI+ Voltage SIR 70SE  
 Sample#3 Text: ST0914A :CS2 10DXN335 Exp: DIOXINRES

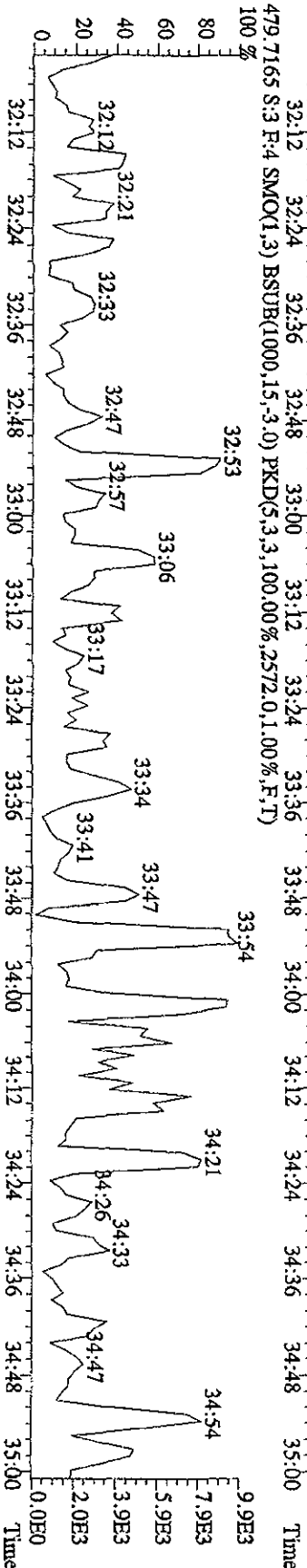
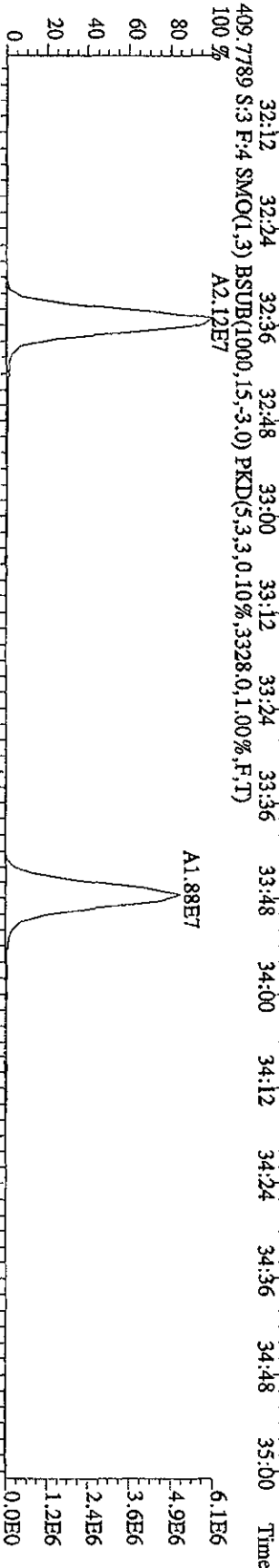
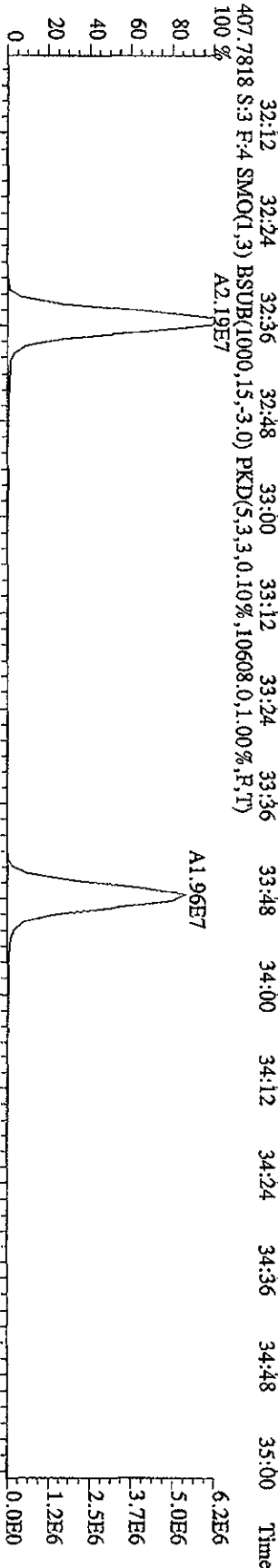
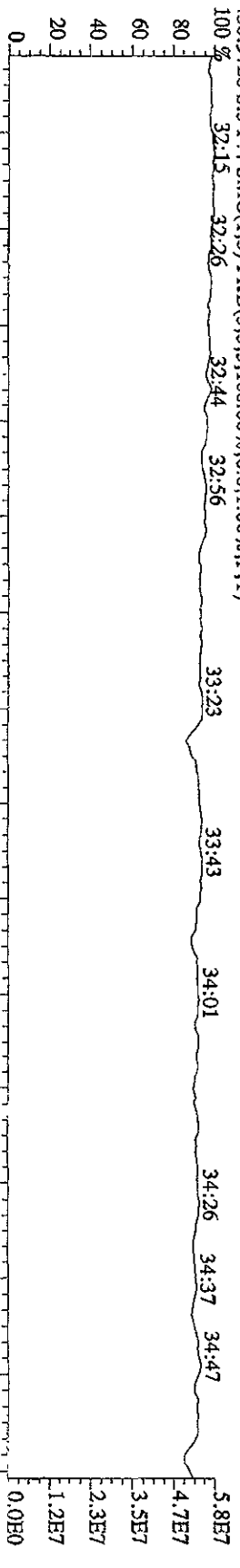




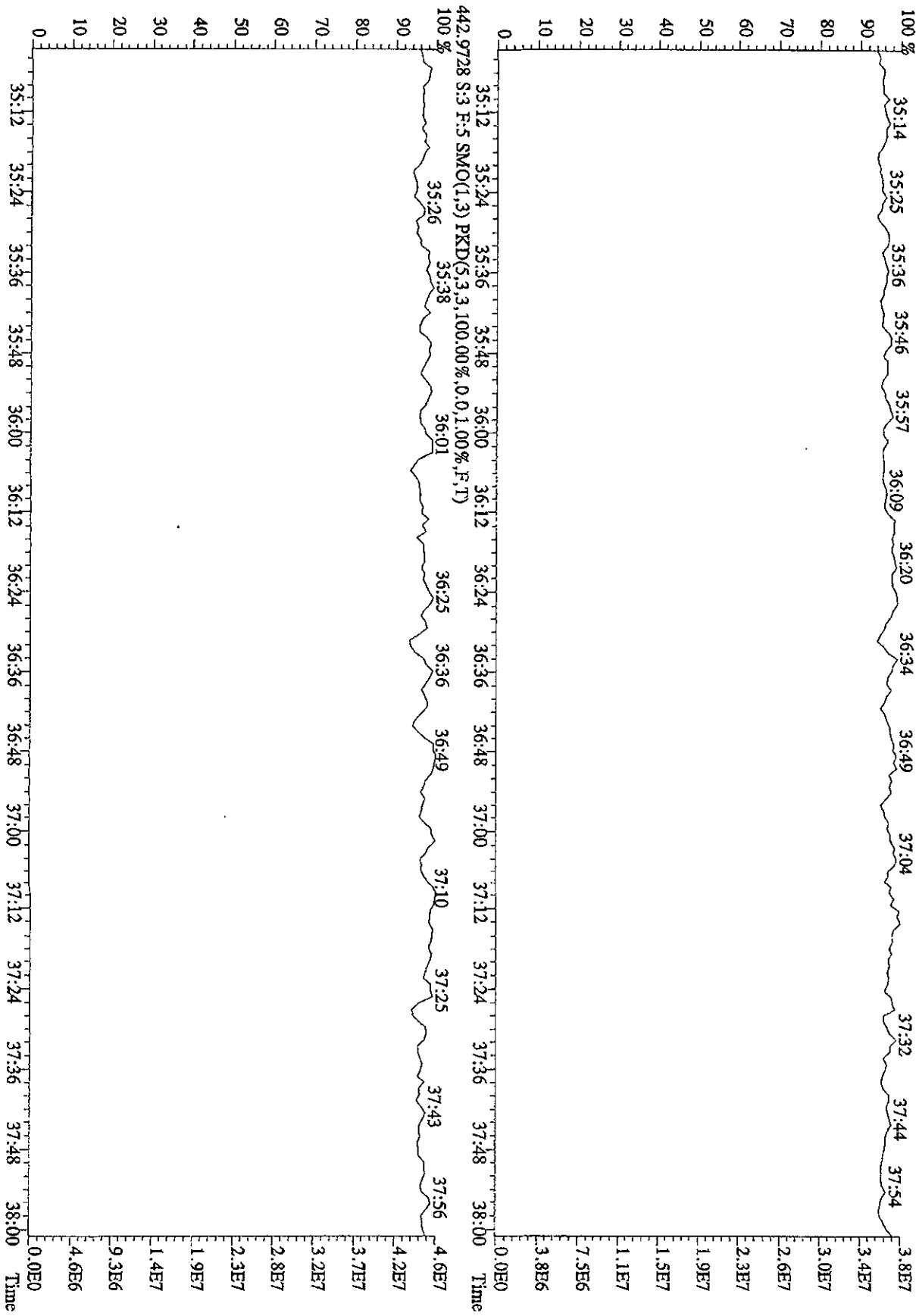
File: 14SE101D5 #1-301 Acq: 14-SEP-2010 12:02:26 GC EI+ Voltage SIR 70SE  
 Sample#3 Text: ST0914A :CS2 10DXN335 Exp: DIOXINRES  
 392.9760 S:3 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100%



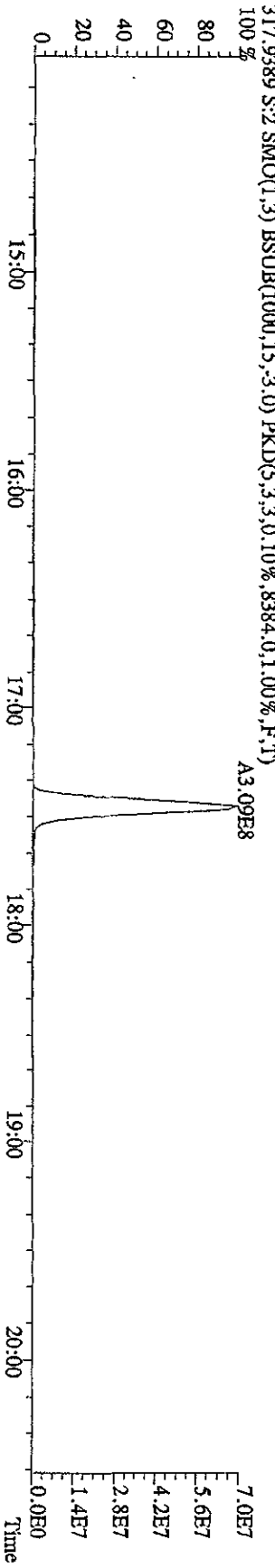
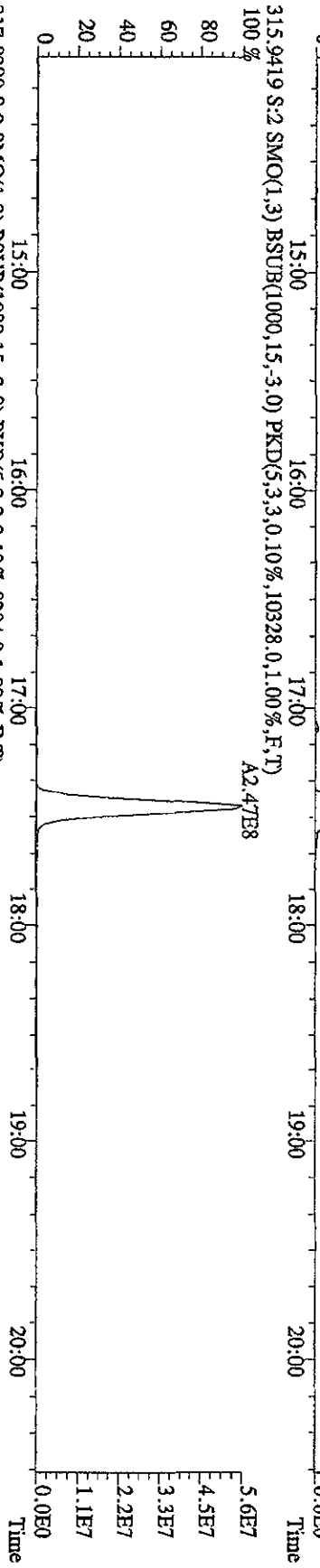
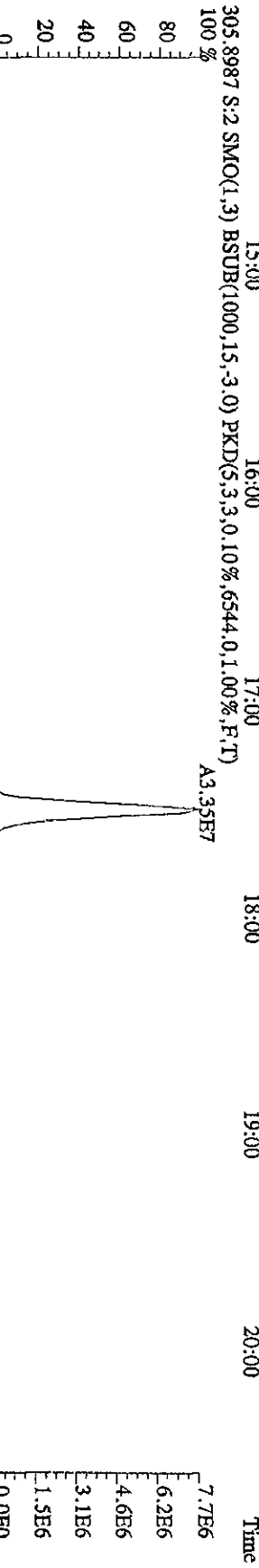
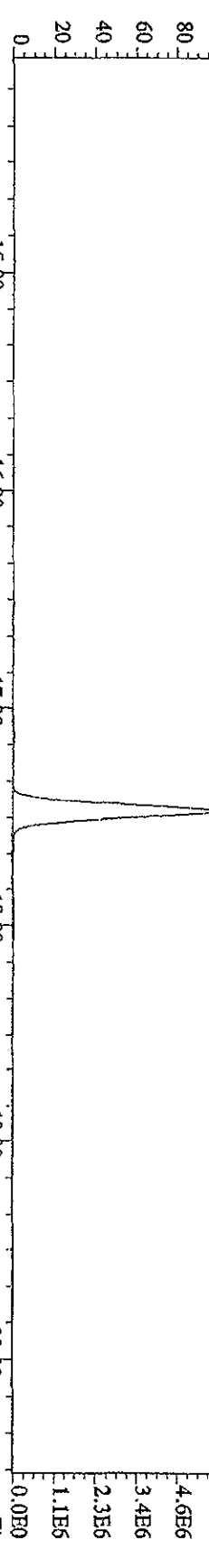
File:14SEI01D5 #1-203 Acq:14-SEP-2010 12:02:26 GC EI+ Voltage SIR 70SE  
 Sample#3 Text:ST0914A :CS2 10DXN335 Exp:DIOXINRES  
 430.9728 S:3 F:4 SMO(1,3) PKD(S,3,3,100.00%,0.0,1.00%,F,T)



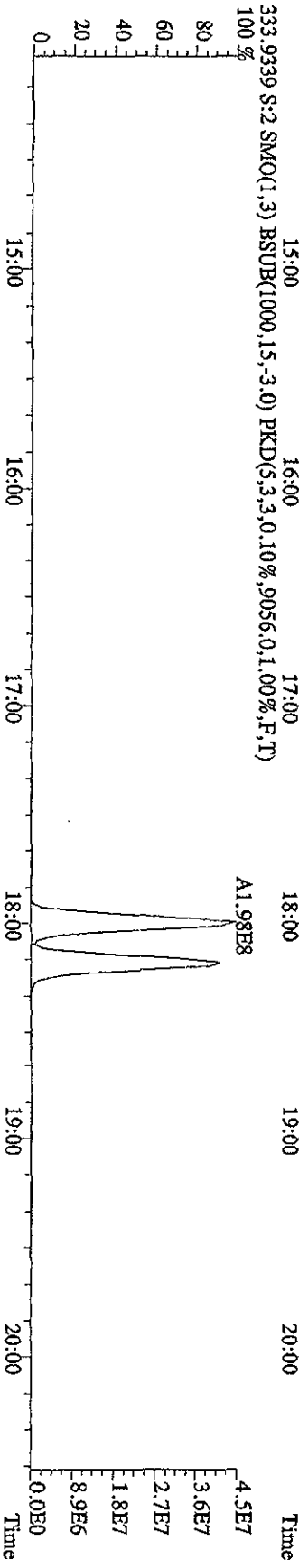
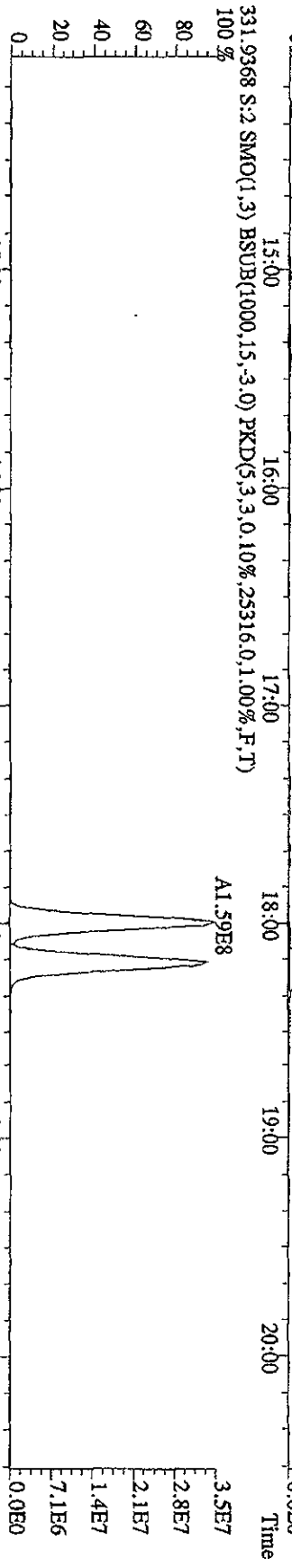
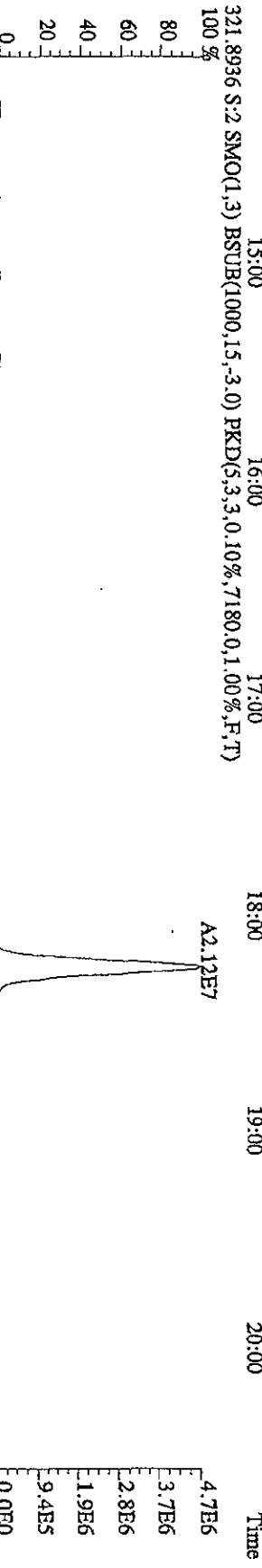
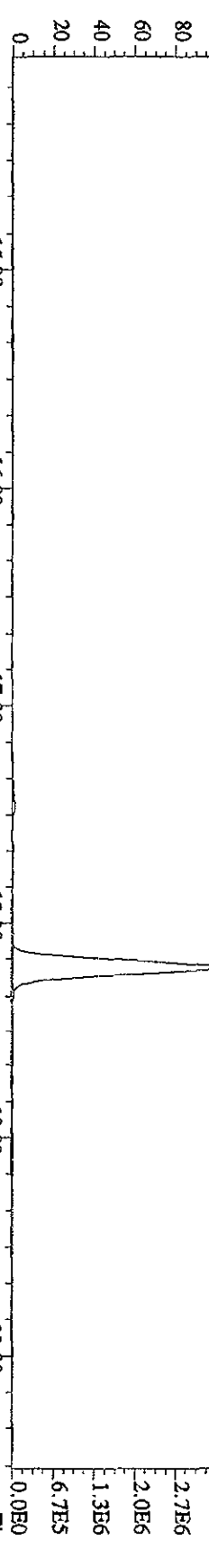
File: IASEI01D5 #1-196 Acq: 14 SEP 2010 12:02:26 GC EI+ Voltage SIR 70SE  
 Sample#3 Text: ST0914A : CS2 10DXN335 Exp: DIOXINRES  
 454.9728 S.3 F.5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



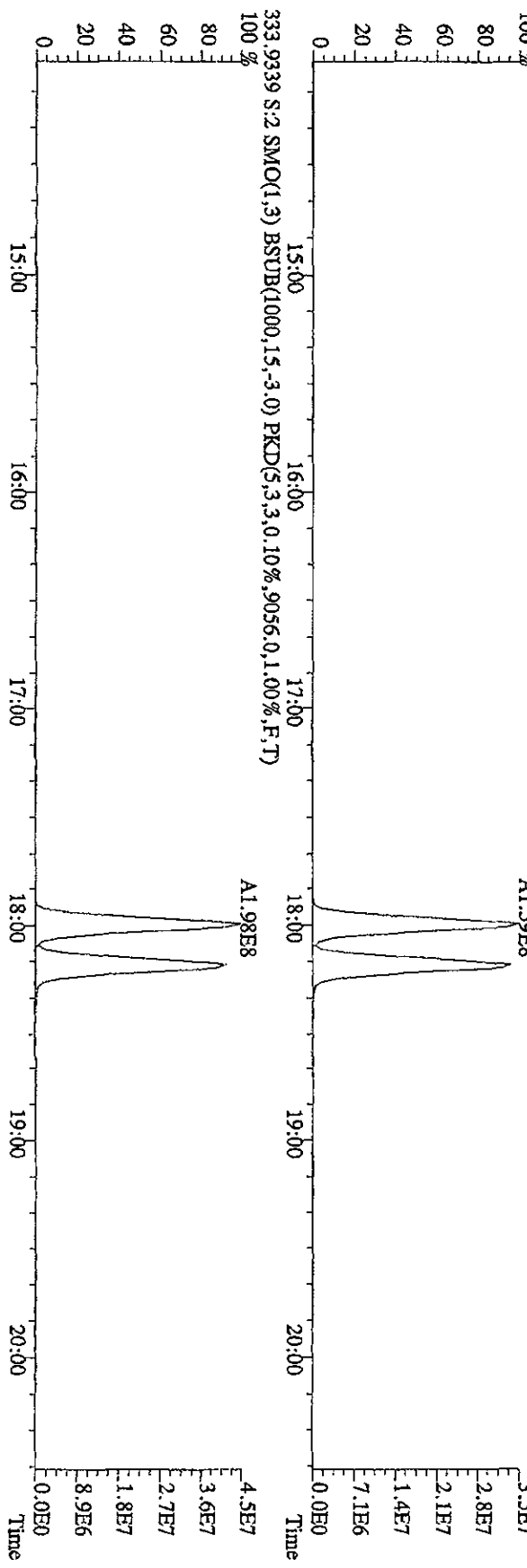
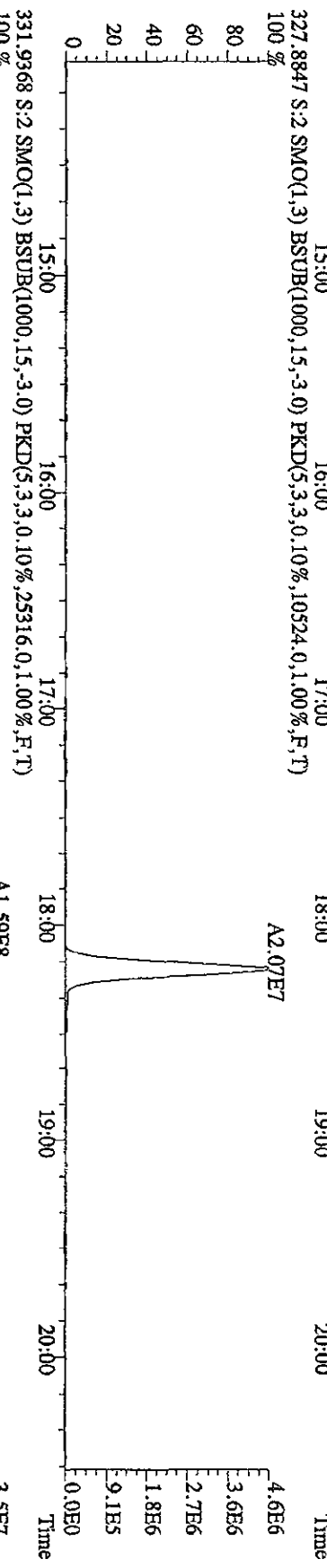
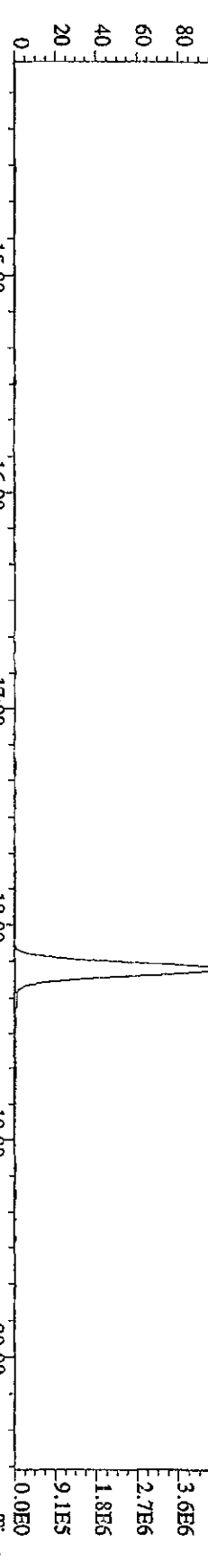
File: 14SE101D5 #1-382 Acq:14-SEP-2010 11:17:57 GC EI+ Voltage SIR 70SE  
 Sample#2 Text:ST0914 :CS3 10DXN426 Exp:DIOXINRES  
 303.9016 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5980,0,1,00%,F,T)



File: 14SE1010IDS #1-382 Acq: 14-SEP-2010 11:17:57 GC EI+ Voltage STR 70SE  
 Sample#2 Text: ST0914 :CS3 10DXN426 Exp: DIOXINRES  
 319.8965 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6308,0,1,00%,F,T)  
 100%



File: 14SEI101D5 #1-382 Acq: 14-SEP-2010 11:17:57 GC EI+ Voltage SIR 70SE  
 Sample#2 Text: ST0914 : CSS 10DYXN426 Exp: DIOXINRES  
 327.8847 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,10524,0,1,100%,F,T)





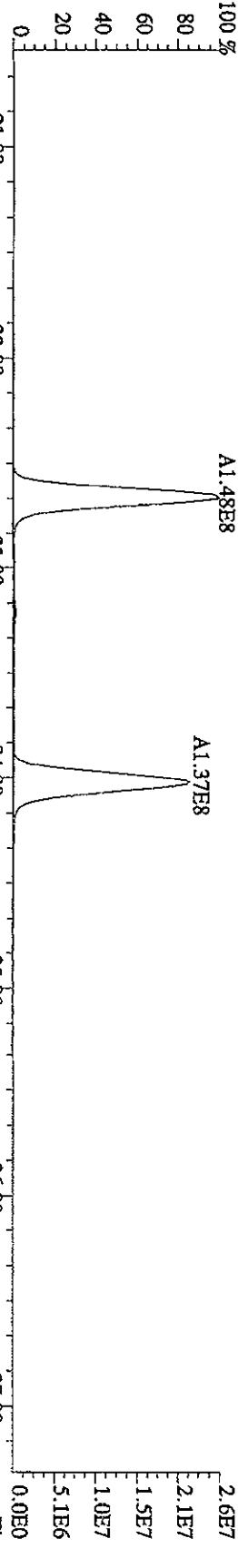
File:14SE101D5 #1-422 Acq:14-SEP-2010 11:17:57 GC EI+ Voltage SIR 70SE

Sample#2 Text:ST0914 :CS3 10DXN426

Exp:DIOXINRES

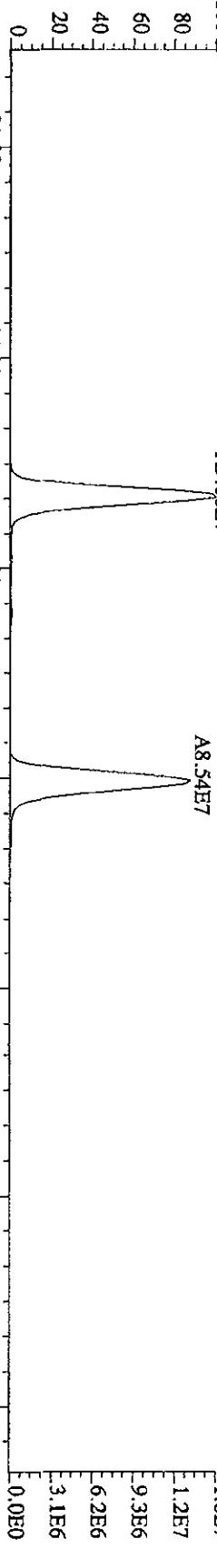
339.8597 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,10000,0,1,00%,F,T)

100% A1.48E8



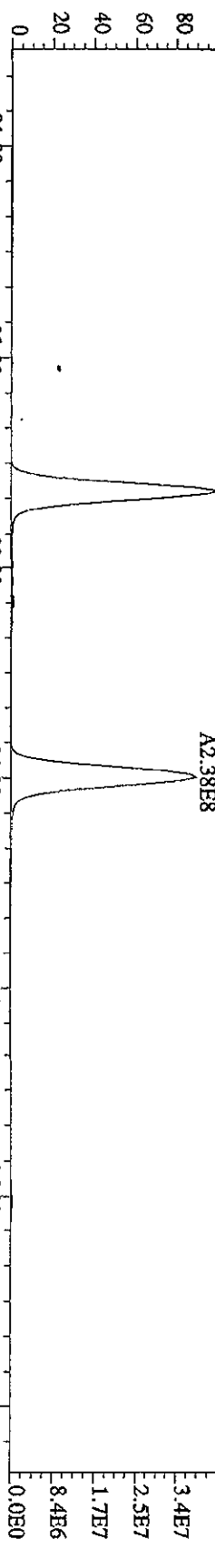
341.8567 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,10000,0,1,00%,F,T)

100% A9.06E7



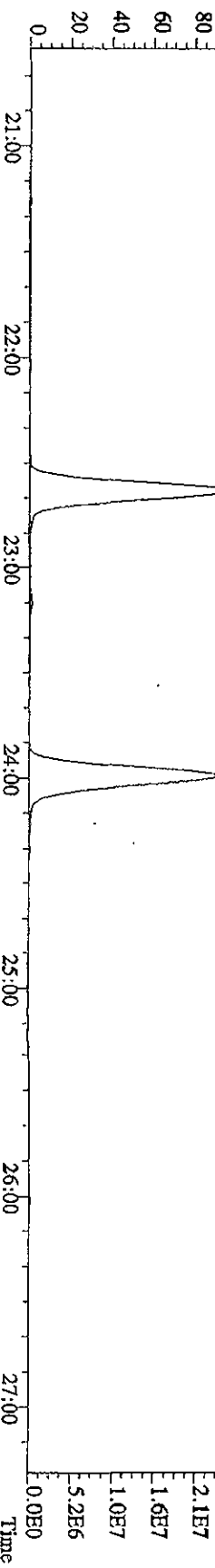
351.9000 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,10176,0,1,00%,F,T)

100% A2.43E8

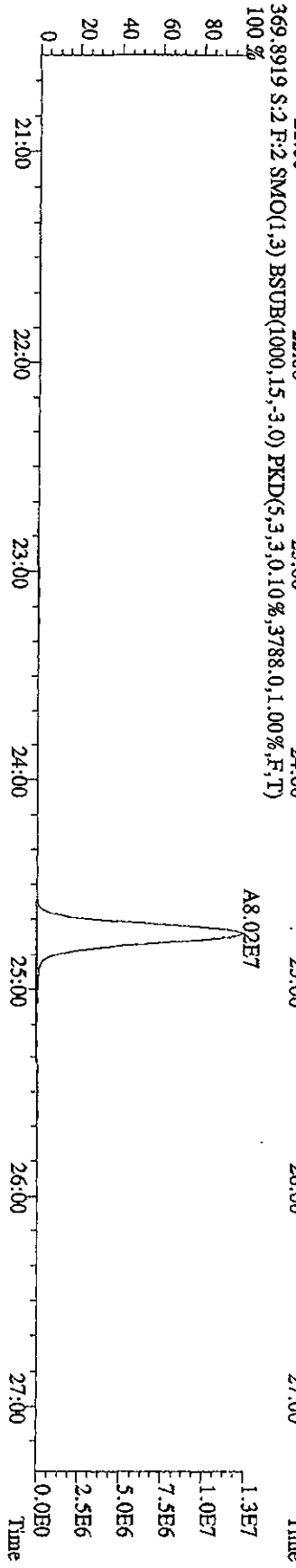
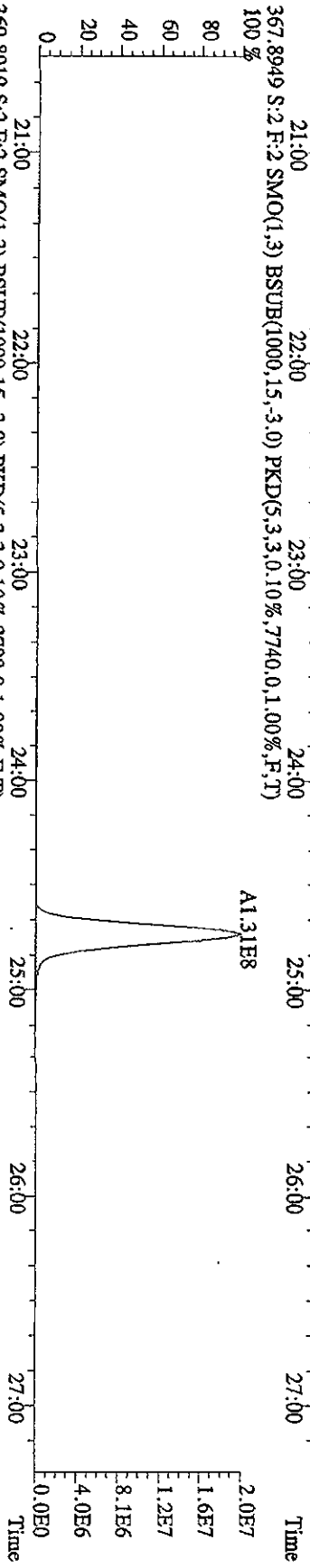
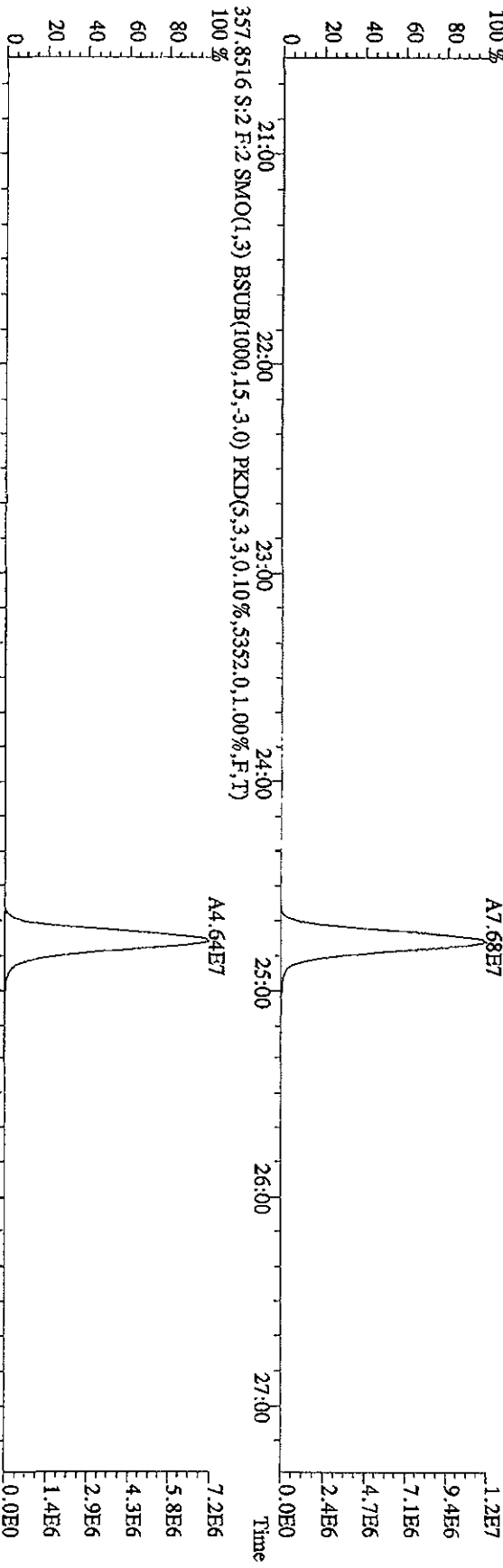


353.8970 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6400,0,1,00%,F,T)

100% A1.48E8

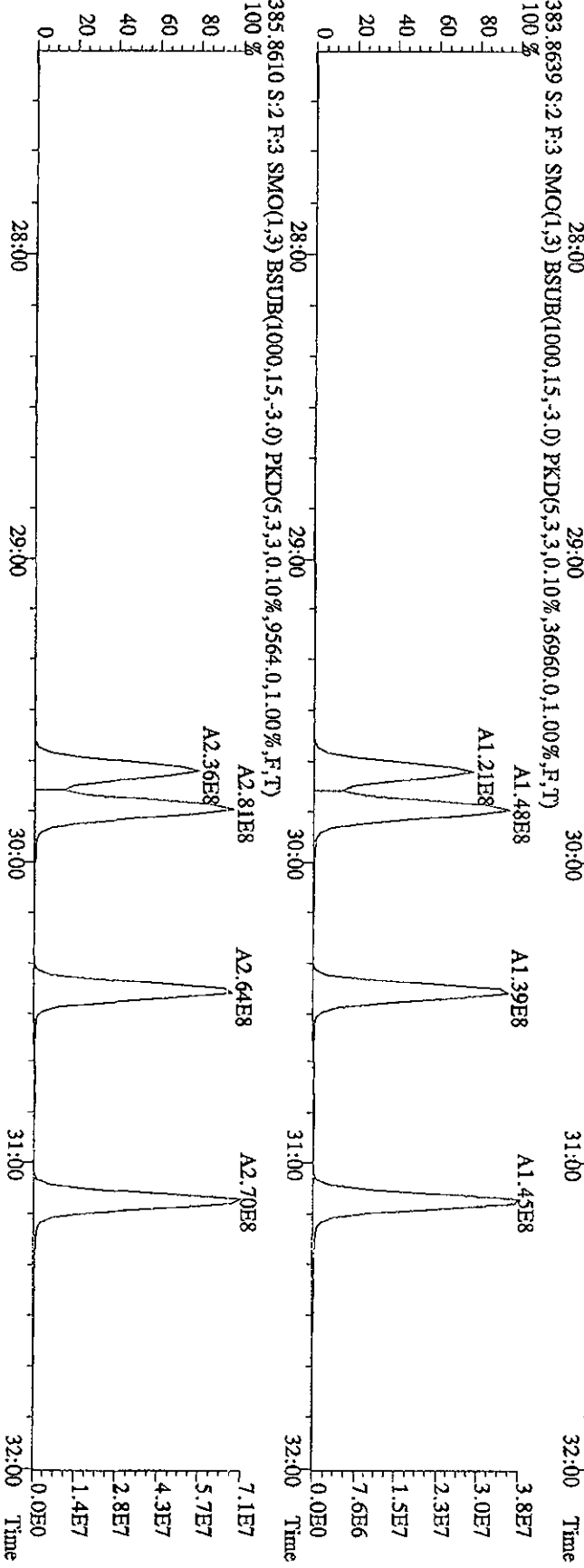
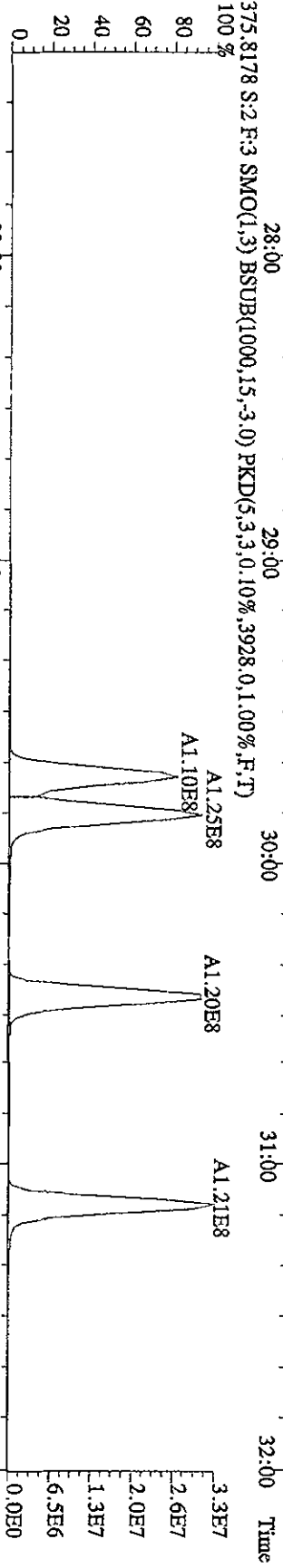
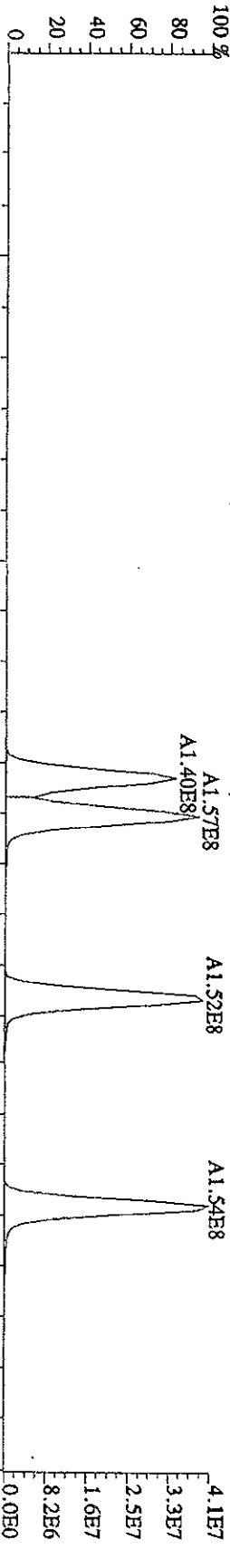


File:14SEI01D5 #L-422 Acq:14-SEP-2010 11:17:57 GC EI+ Voltage:SR 70SE  
 Sample#2 Text:ST0914 :CS3 10DXN426 Exp:DIOXNRES  
 357.8516 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6848,0.1,00%,F,T)  
 100%

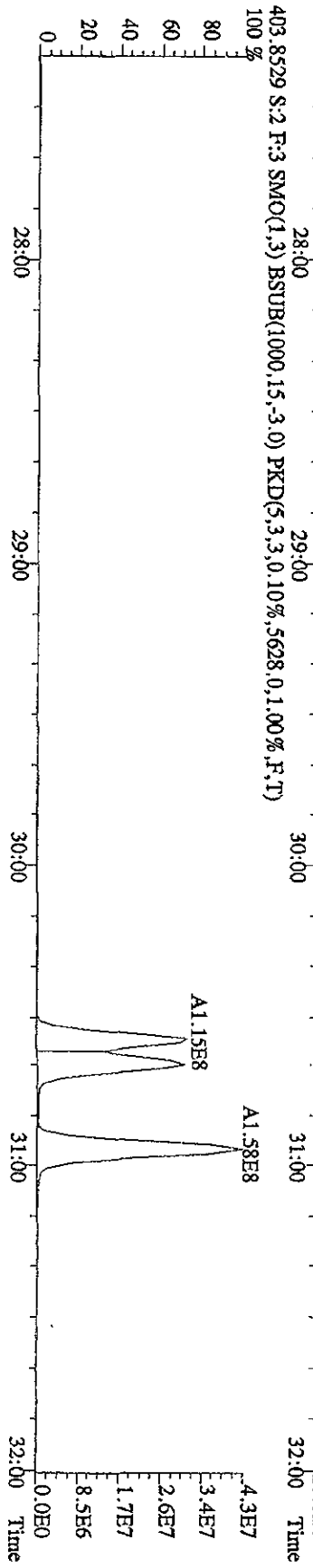
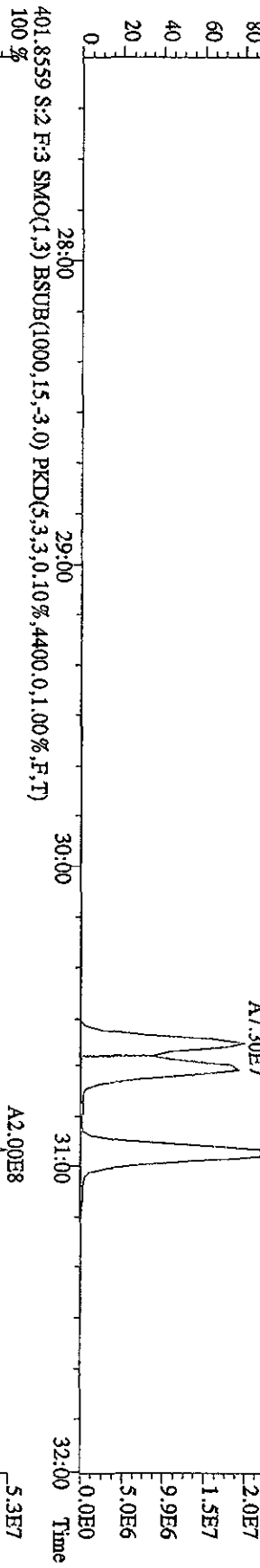
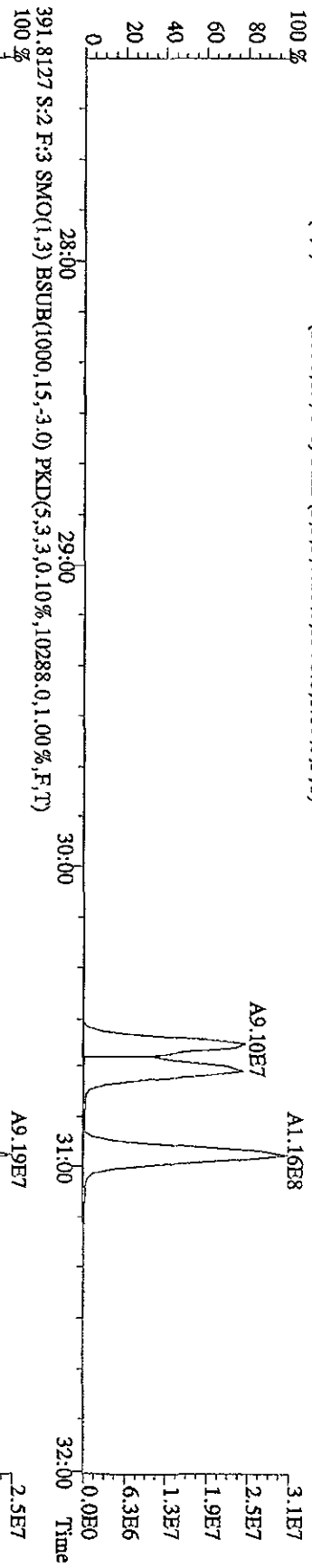


File:14SEI01D5 #1-301 Acq:14-SEP-2010 11:17:57 GC EI+ Voltage SFR 70SE

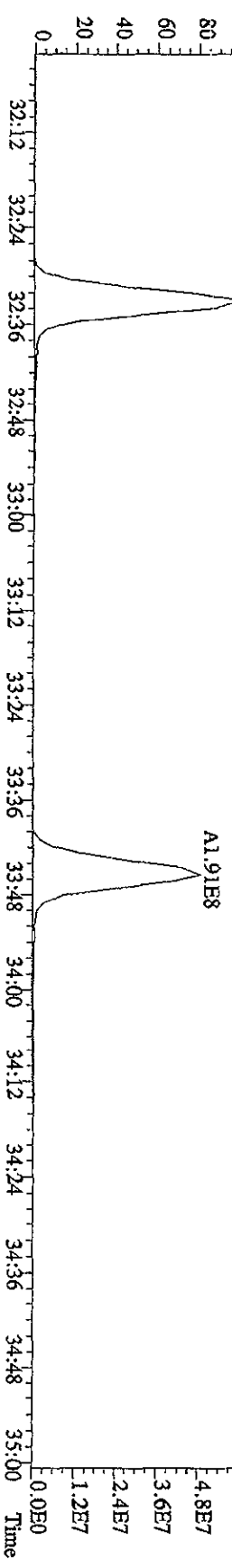
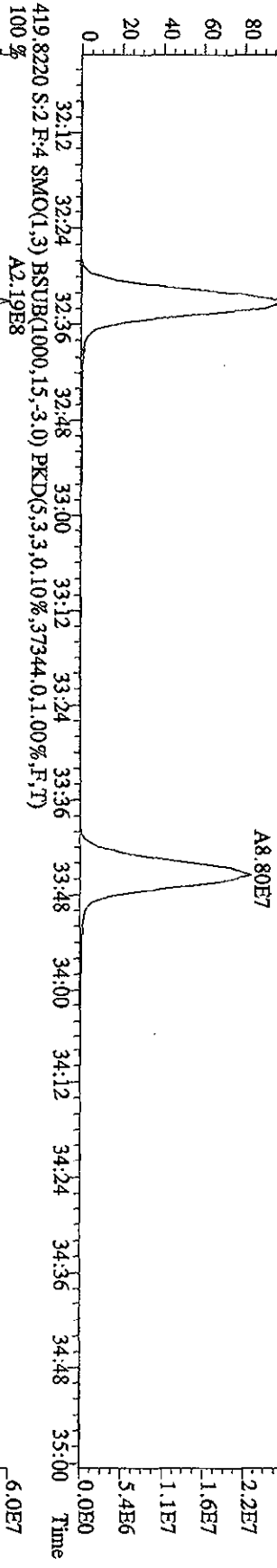
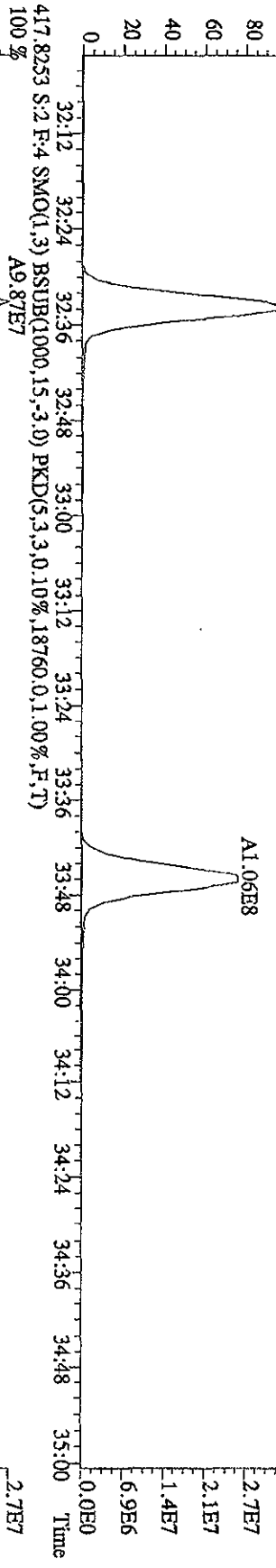
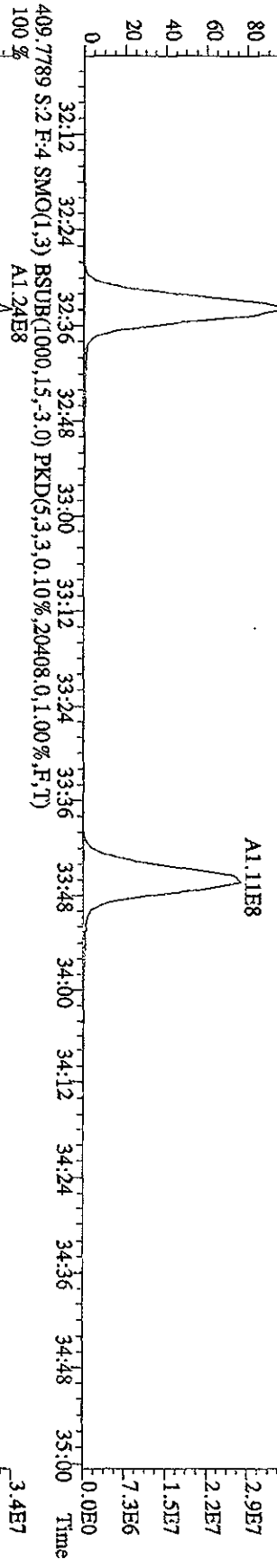
Sample#2 Text:ST0914 :CS3 10DXN426 Exp:DIOXINRES



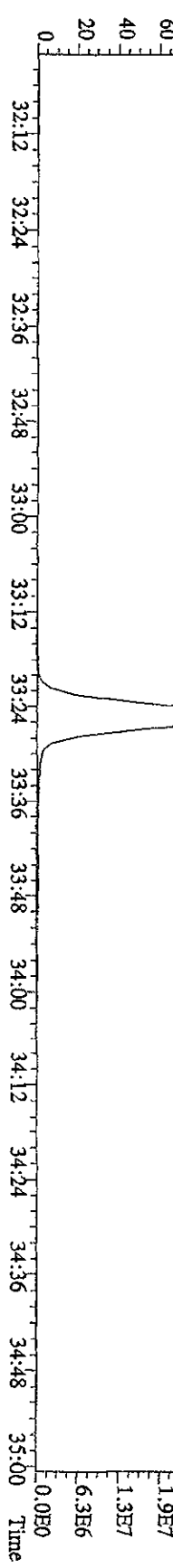
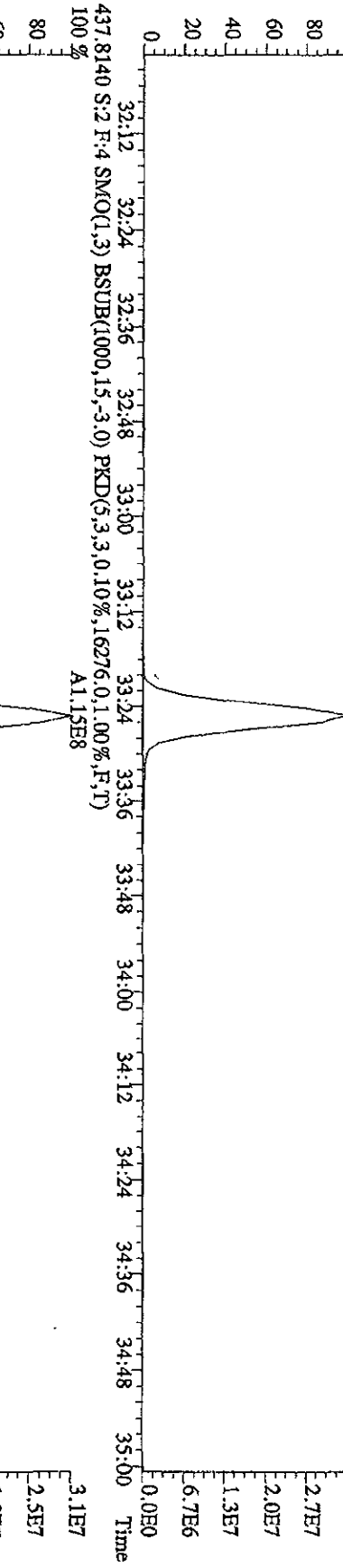
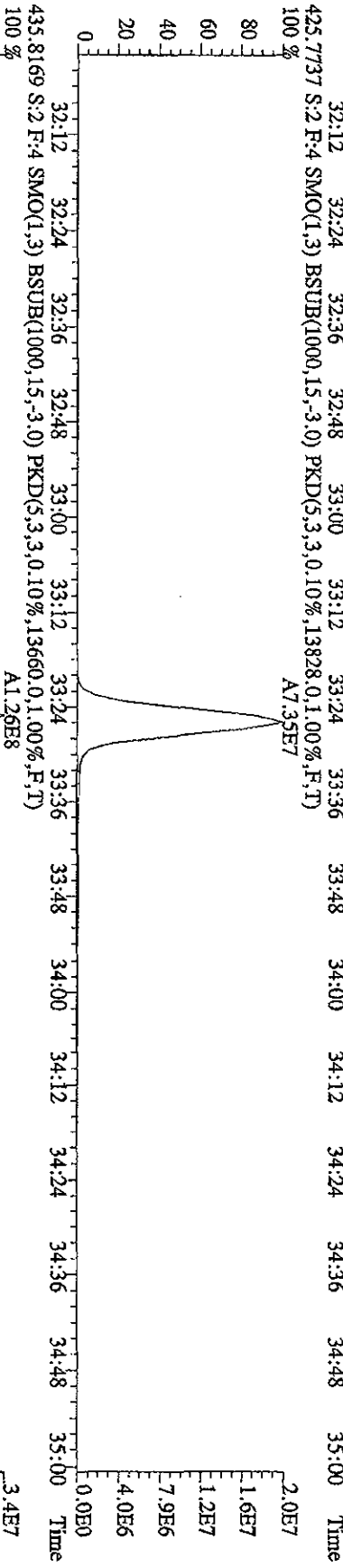
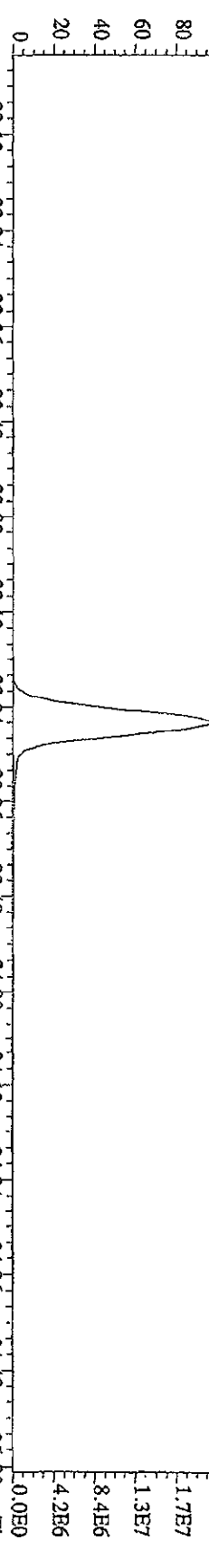
File:14SE101D5 #1-301 Acq:14-SEP-2010 11:17:57 GC EI + Voltage SIR 70SE  
 Sample#2 Text:ST0914 :CS3 10DXN426 Exp:DIOXINRES  
 389.8157 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3976.0,1.00%,F,T) 100%



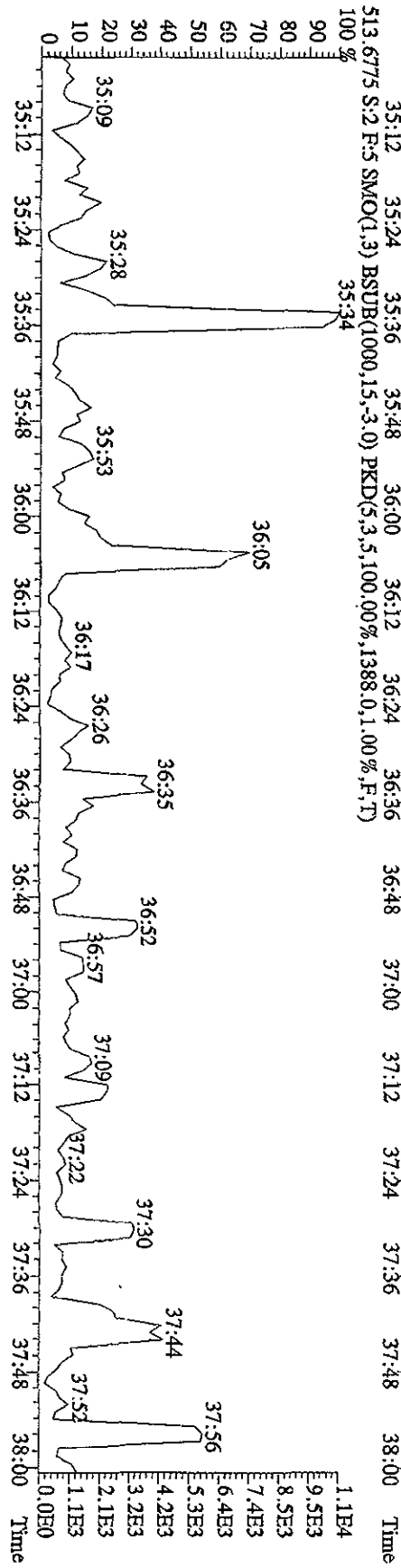
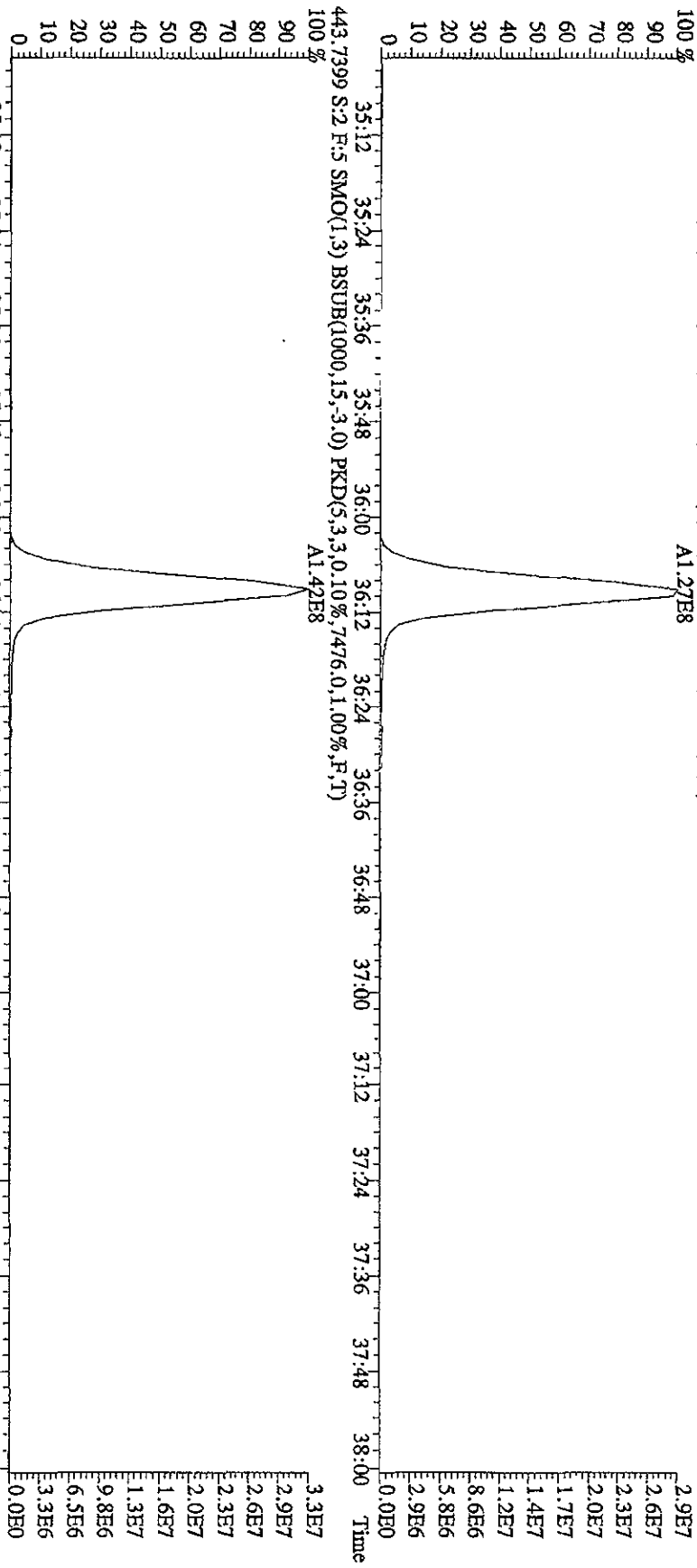
File: 14SE101D5 #1-203 Acq: 14-SEP-2010 11:17:57 GC EI+ Voltage STR 70SE  
 Sample#2 Text: ST0914 : CS3 10DXN426 Exp: DIOXINRES  
 407.7818 S:2 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,19552,0,1,00%,F,T)  
 100%



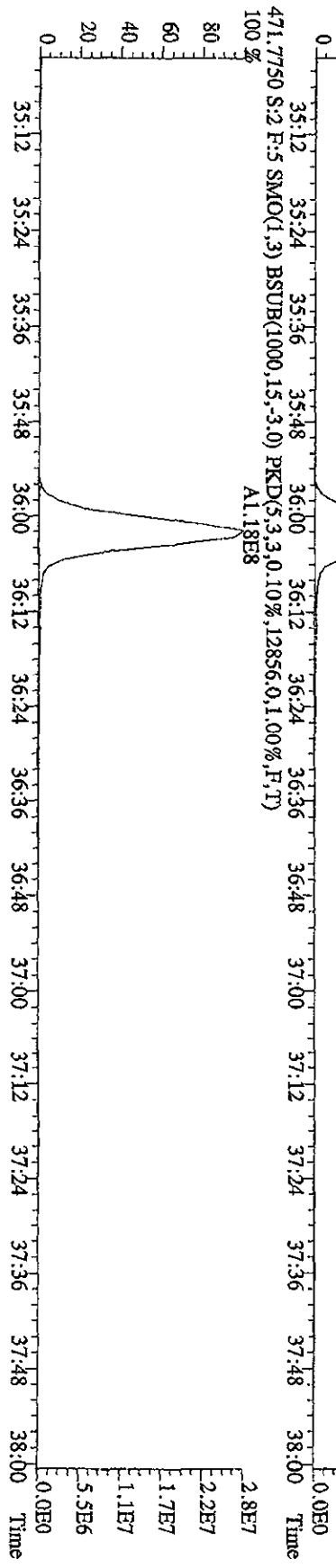
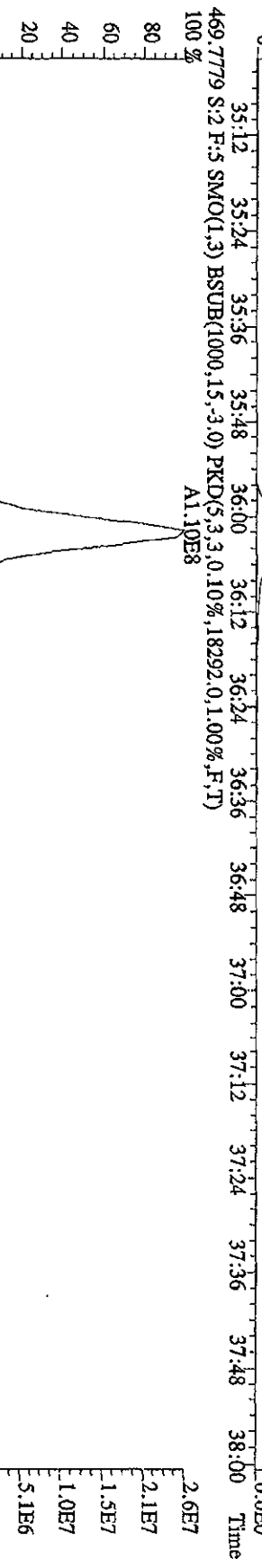
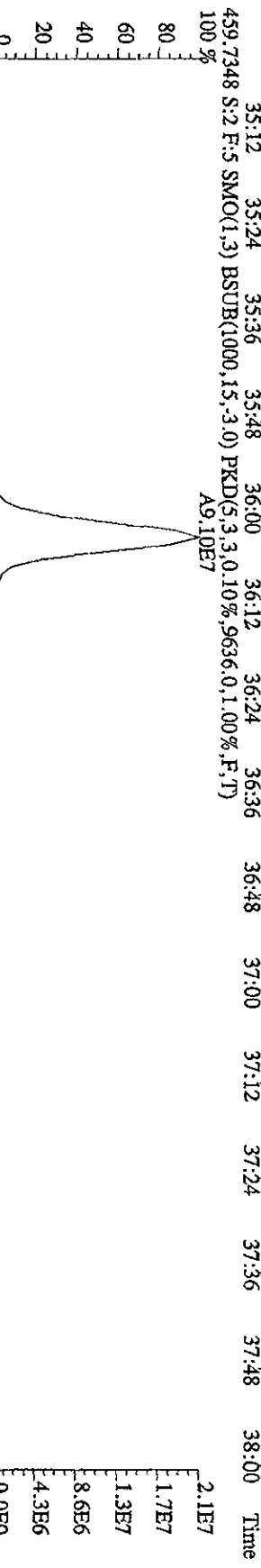
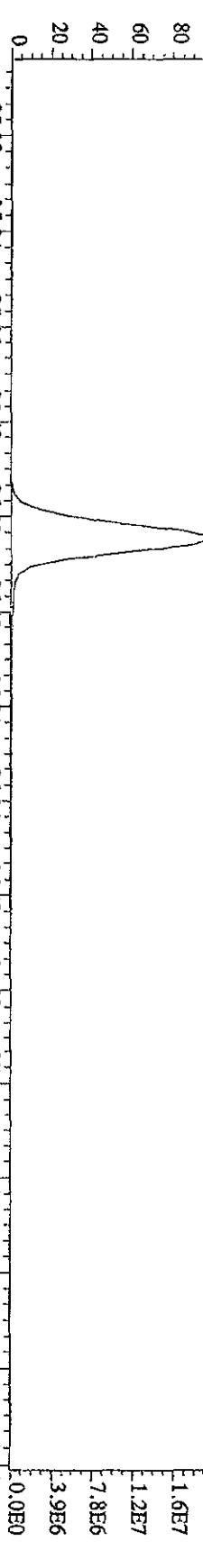
File:14SEP10ID5 #1-203 Acq:14-SEP-2010 11:17:57 GC EI + Voltage SIR 70SE  
 Sample#2 Text:ST0914 :CSS 10DXN426 Exp:DIOXINRES  
 423.7737 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11004,0.1,00%,F,T)  
 100 % A7.79E7



File:14SEI01D5 #1-196 Acq:14-SEP-2010 11:17:57 GC EI+ Voltage SIR 70SE  
 Sample#2 Text:ST0914 :CS3 10DYXN426 Exp:DIOXINRES  
 441.7428 S:2 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7112.0,1.00%,F,T)  
 100%



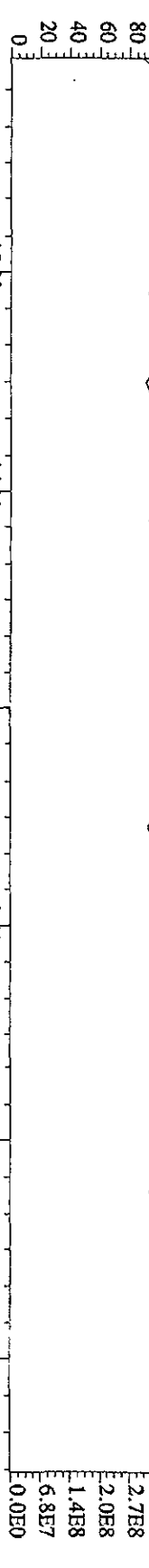
File:14SE101D5 #1-196 Acq:14-SEP-2010 11:17:57 GC EI+ Voltage STR 70SE  
 Sample#2 Text:ST0914 :CS3 10DXN426 Exp:DIOXINRES  
 457.7377 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6272.0,1.00%,F,T)  
 100%



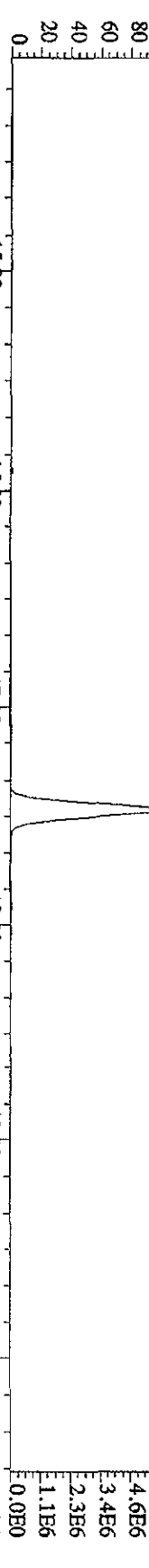


File: 14SEI01D5 #1.382 Acq: 14-SEP-2010 11:17:57 GC EI+ Voltage: 500V SRR 70SE  
 Sample#2 Text: ST0914 :CS3 10DXK426 Exp: DIOXINRES

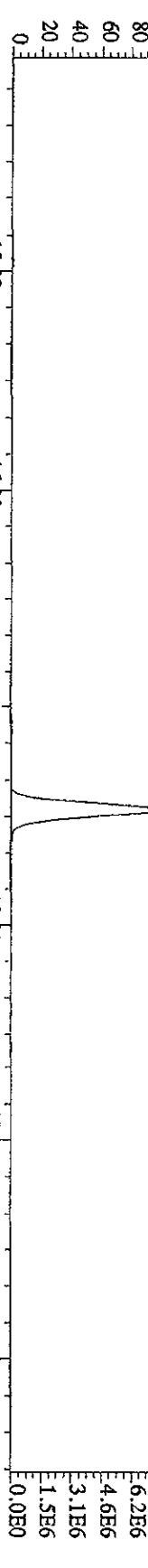
292.9825 S:2 SMO(1,3) PKD(5,3,5,100,00%,0,0,1,00%,F,T)  
 100% 14:17 14:52 15:25 15:49 16:13 16:37 16:57 17:18 17:54 18:40 19:07 19:34 20:12



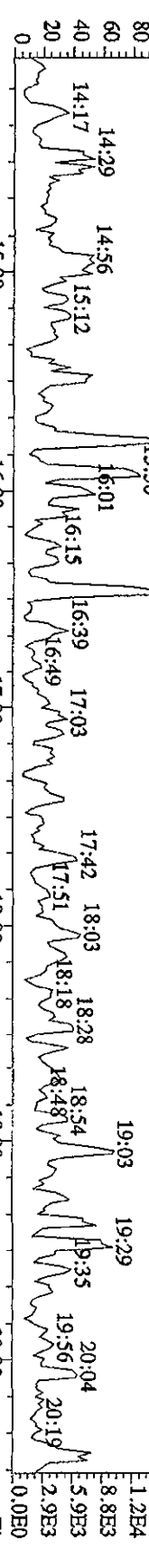
303.9016 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5980,0,1,00%,F,T)  
 100% 15:00 16:00 17:00 18:00 19:00 20:00



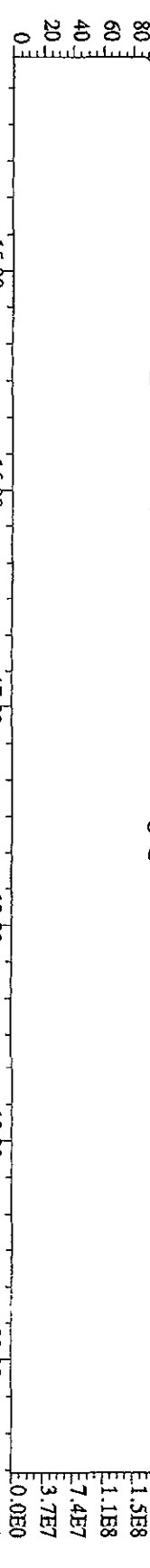
305.8987 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6544,0,1,00%,F,T)  
 100% 15:00 16:00 17:00 18:00 19:00 20:00



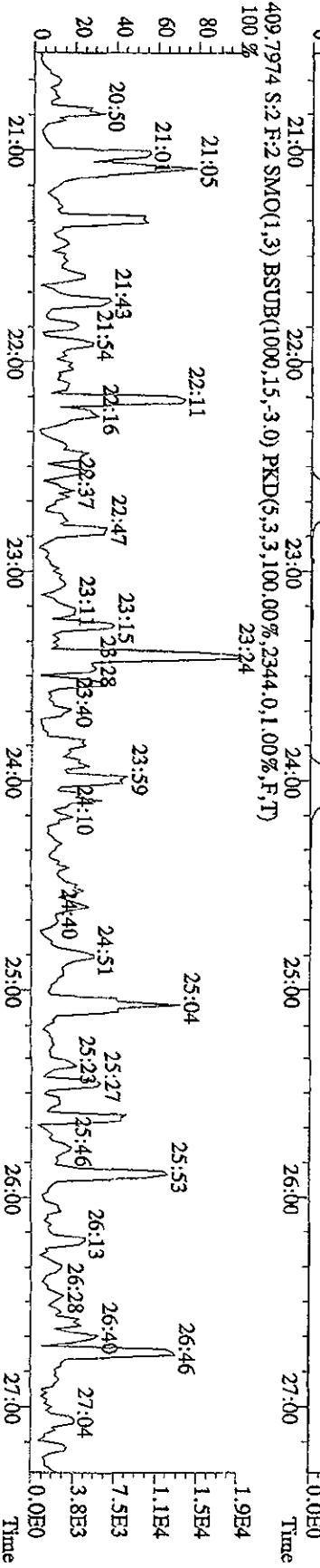
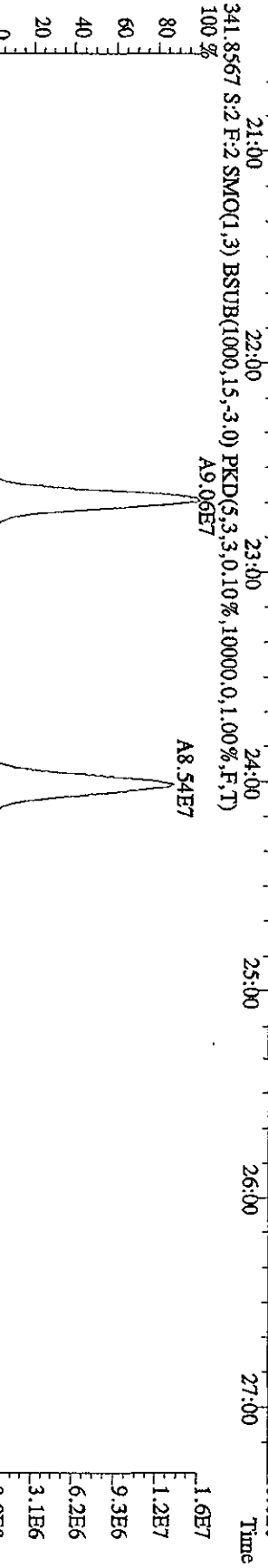
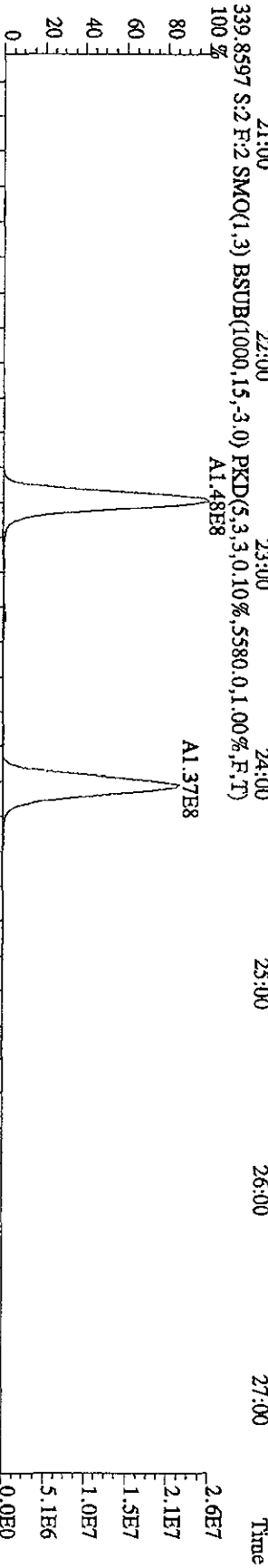
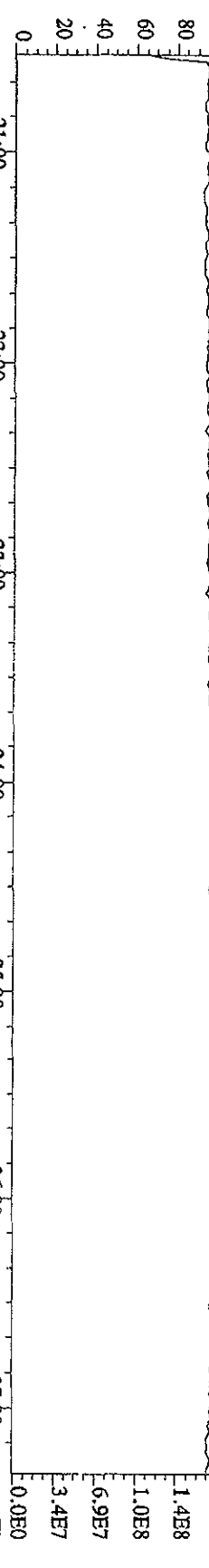
375.8364 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,4000,0,1,00%,F,T)  
 100% 15:00 16:00 17:00 18:00 19:00 20:00



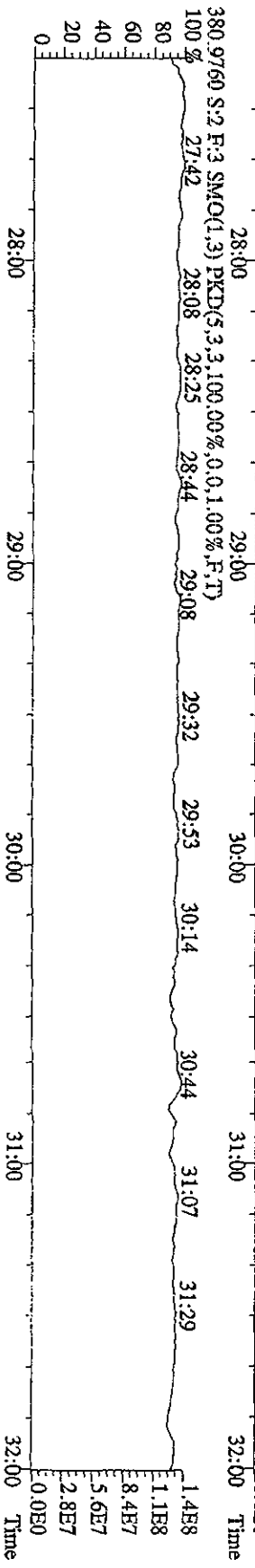
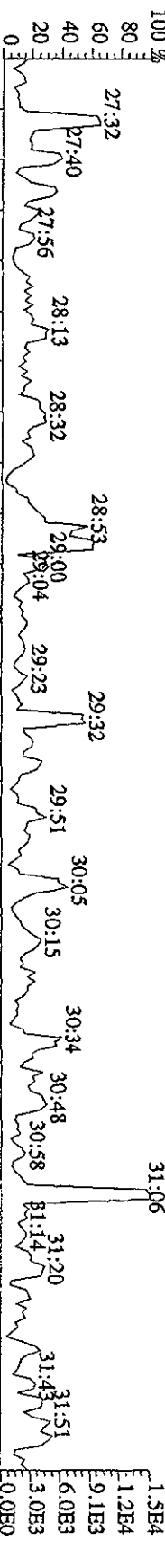
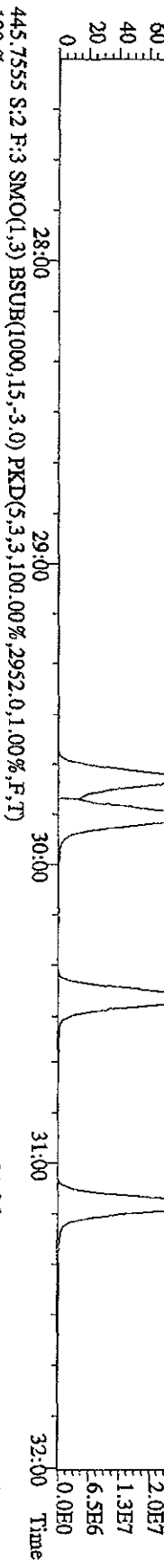
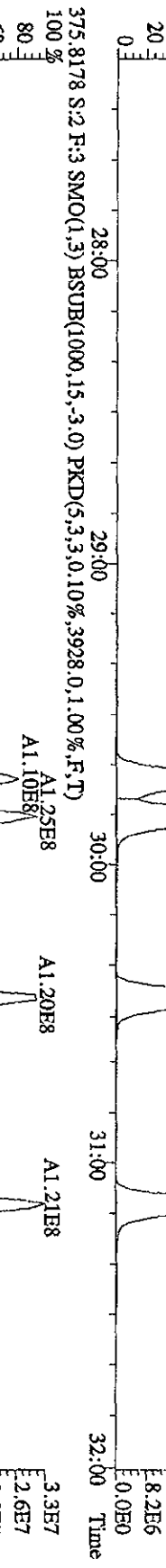
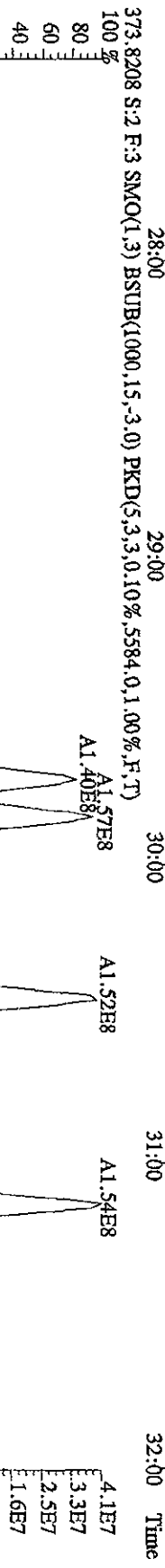
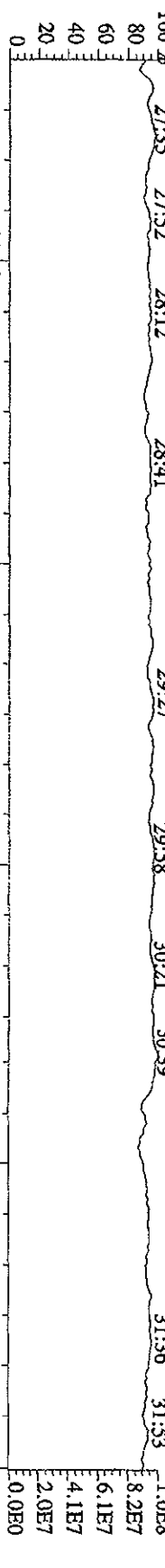
330.9792 S:2 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)  
 100% 14:26 15:13 15:38 16:08 16:37 17:29 17:52 18:23 19:01 19:22 19:54



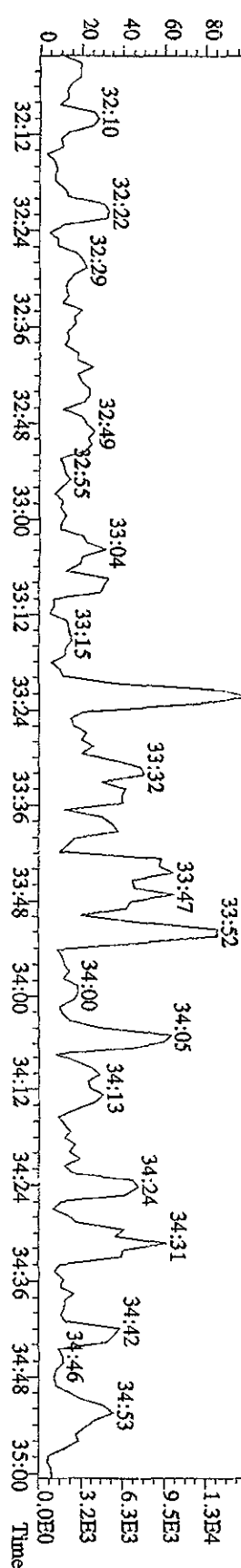
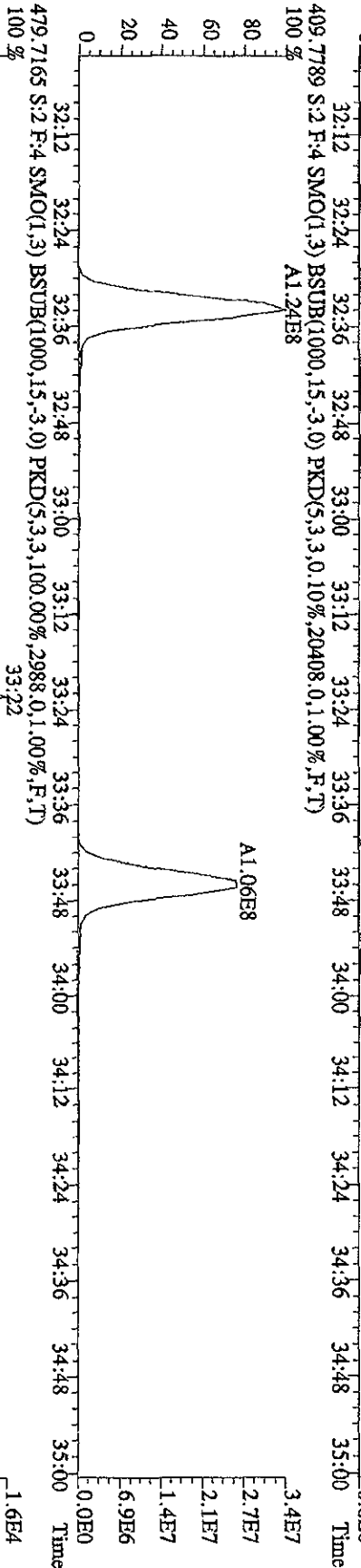
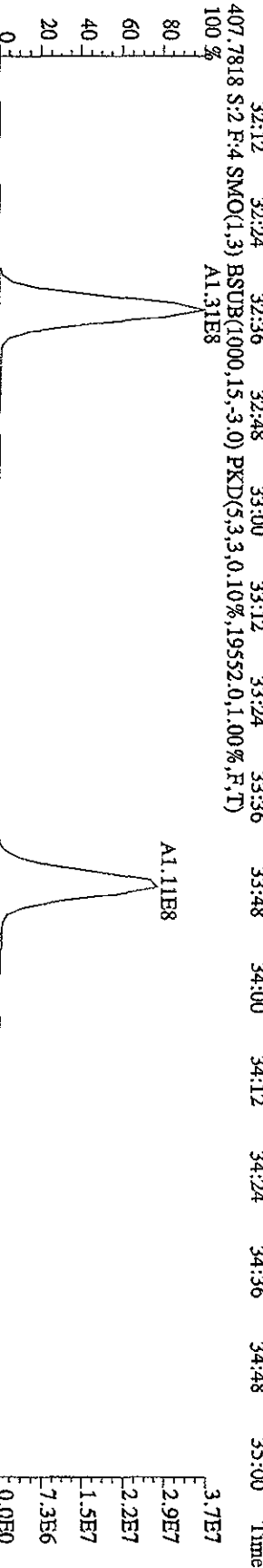
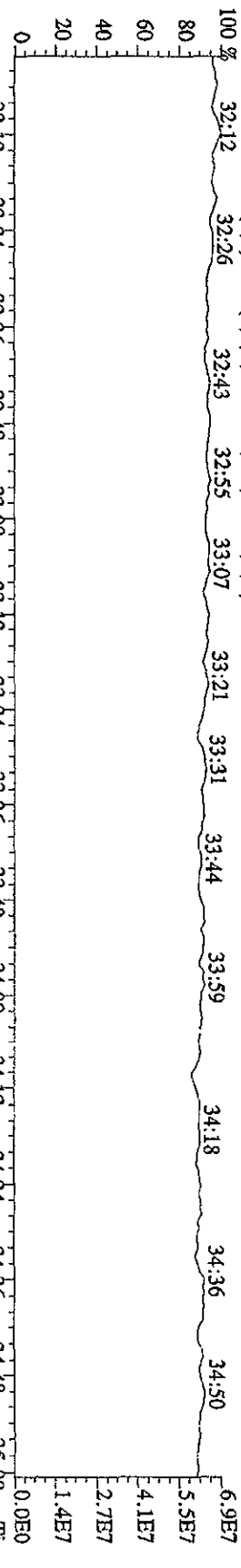
File: 14SEI01D5 #1-422 Acq: 14-SEP-2010 11:17:57 GC EI+ Voltage SIR 70SE  
 Sample#2 Text: ST0914 : CS3 10DXN426 Exp: DIOXINRES  
 342.9792 S:2 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 21:02 21:25 21:53 22:35 23:09 23:40 24:02 24:23 25:02 25:34 26:00 26:43 27:07



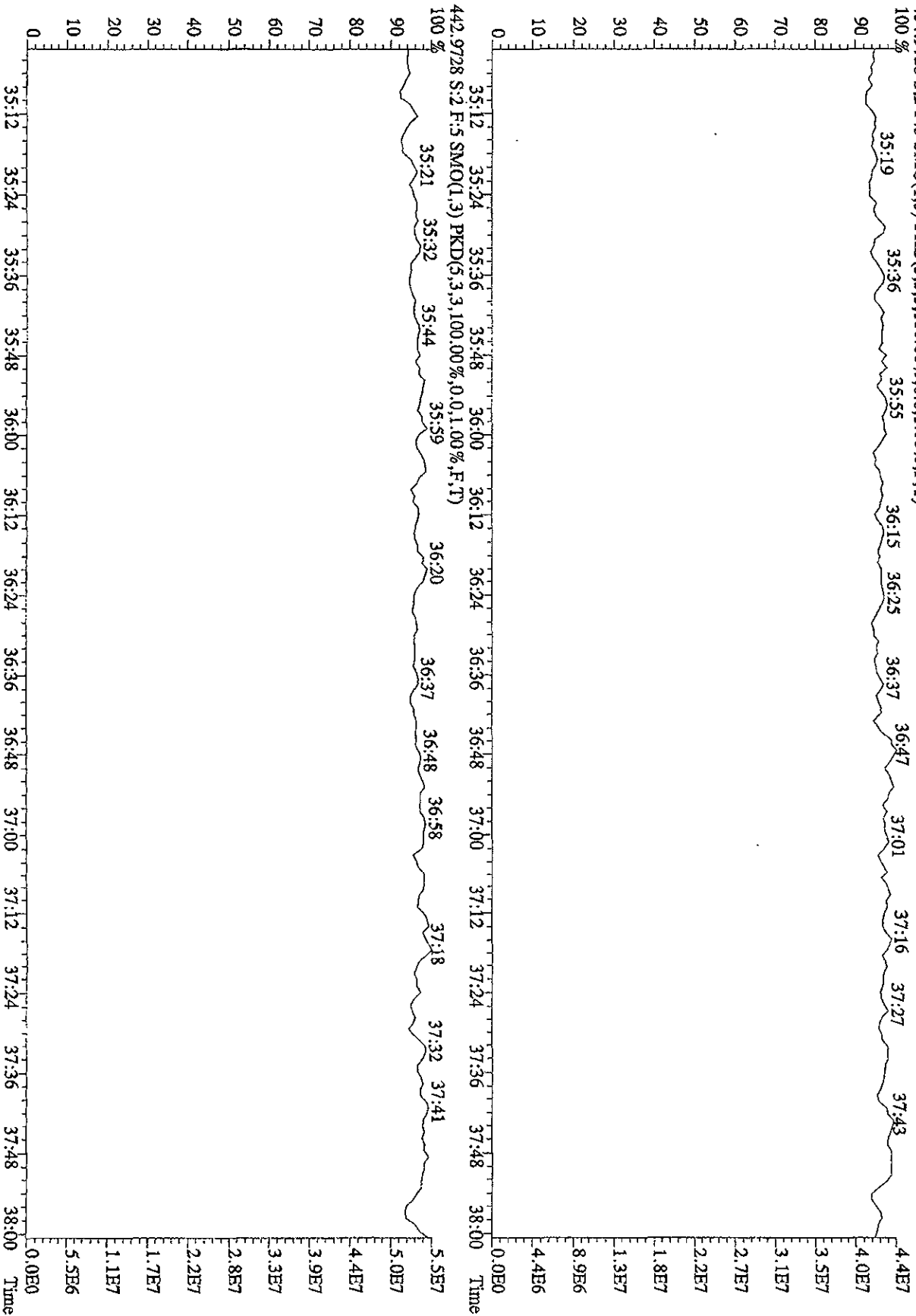
File: 14SE101D5 #1-301 Acq: 14-SEP-2010 11:17:57 GC EI + Voltage SIR 70SE  
 Sample#2 Text: ST0914 :CS3 10DXM426 Exp: DIOXINRES  
 392.9760 S:2 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100% 27:35 27:52 28:12 28:41 29:27 29:58 30:21 30:39 31:36 31:53



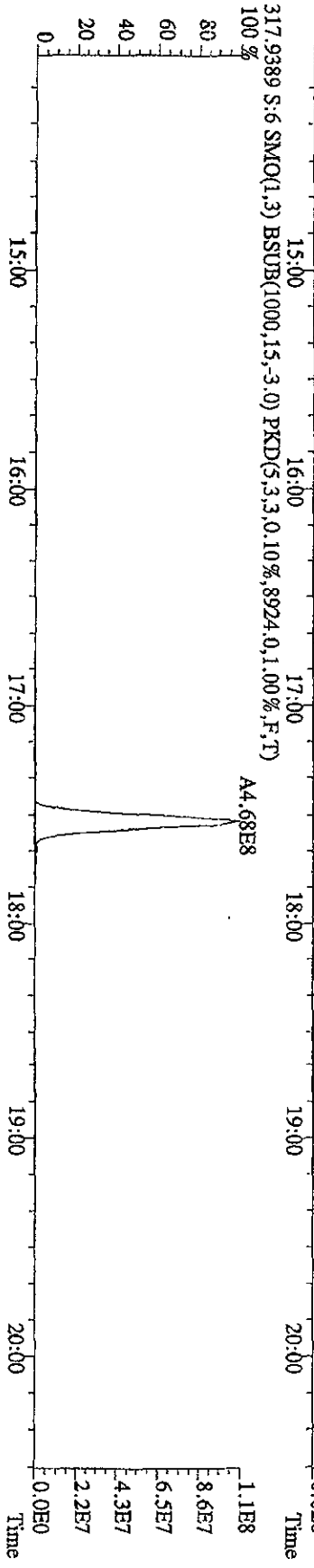
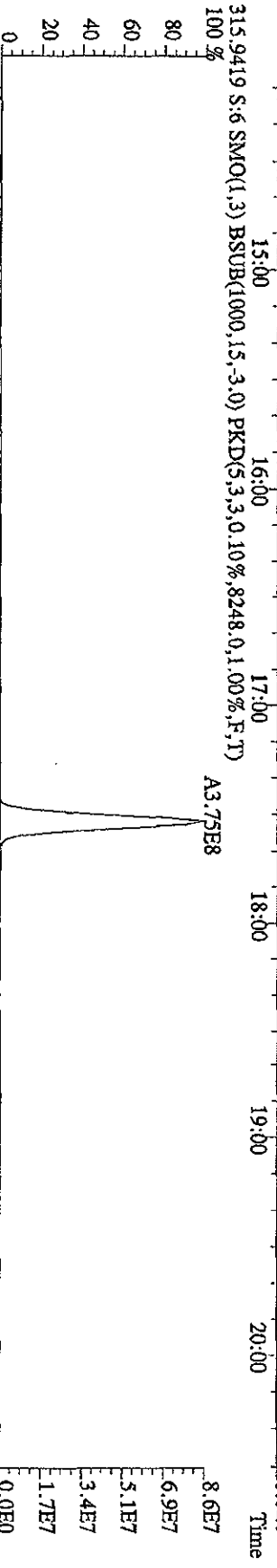
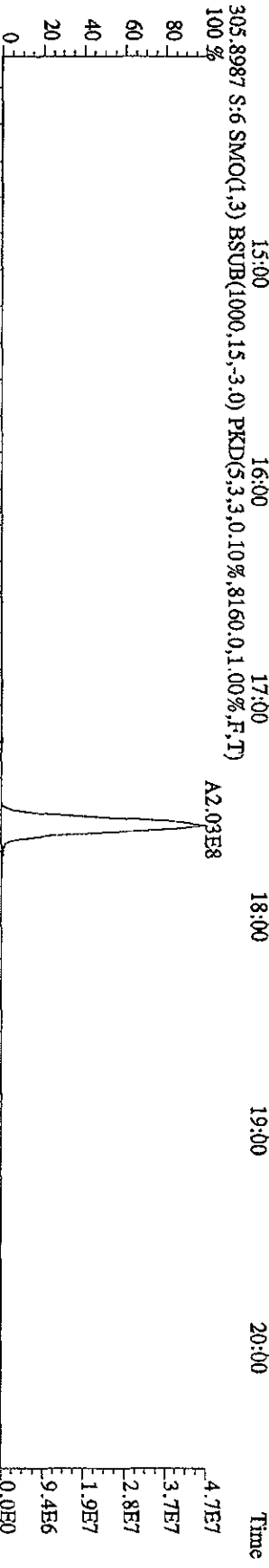
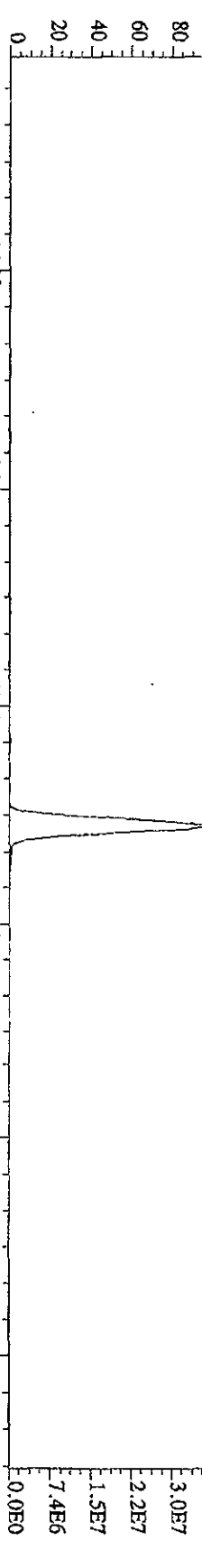
File: 14SE101D5 #1-203 Acq: 14-SEP-2010 11:17:57 GC EI+ Voltage SIR 70SE  
 Sample#2 Text: ST0914 :CS3 10DXN426 Exp: DIOXNRES



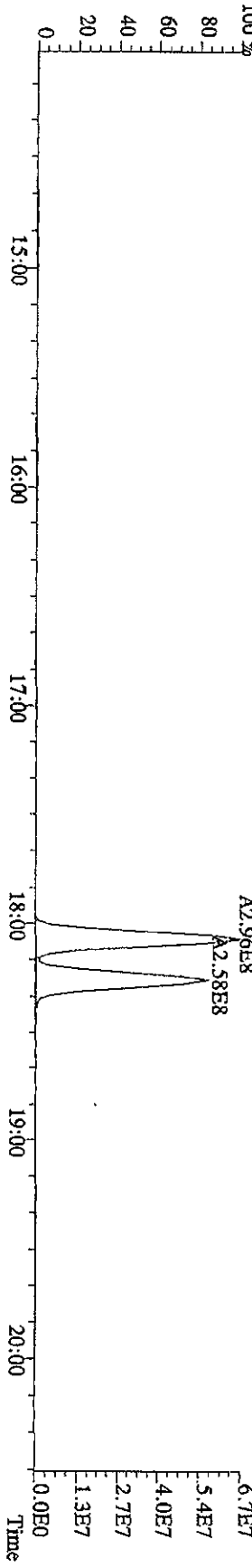
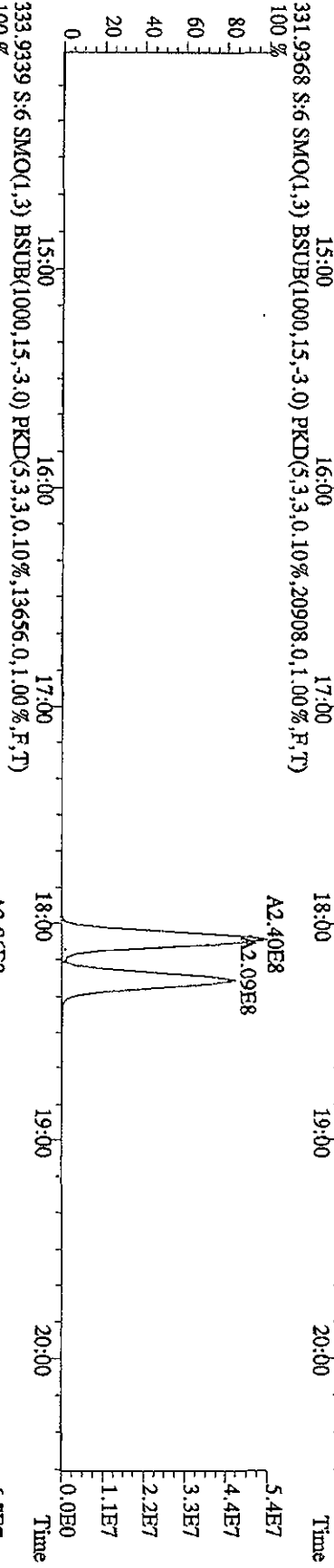
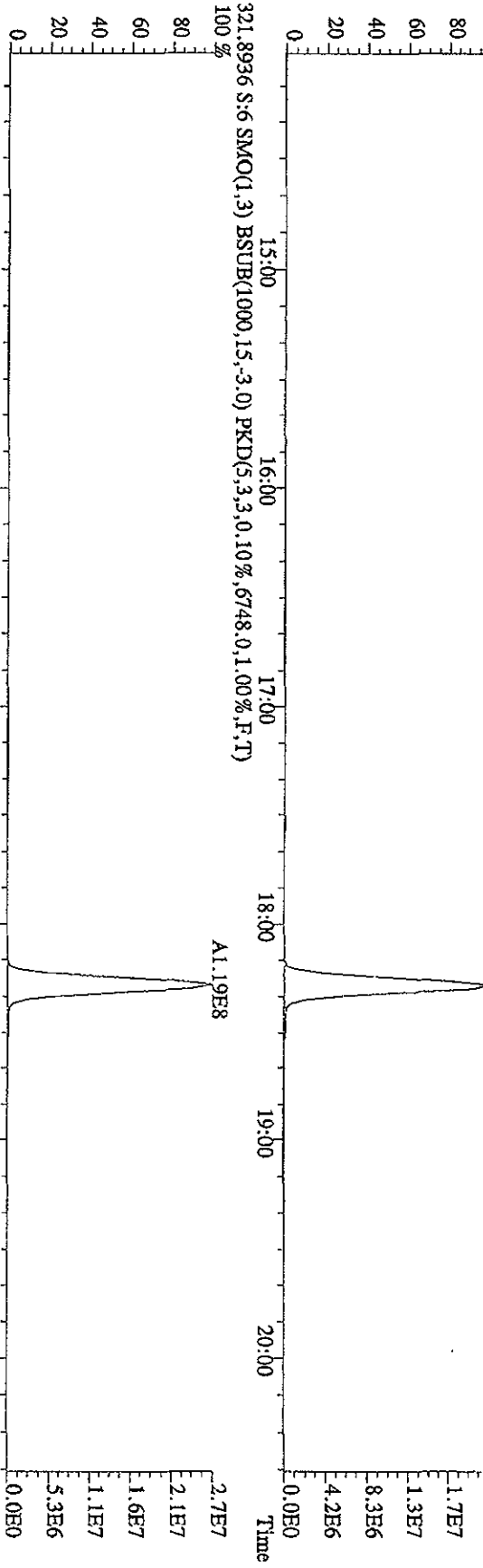
File:14SEI01D5 #1-196 Acq:14-SEP-2010 11:17:57 GC EI+ Voltage SIR 70SE  
 Sample#2 Text:ST0914 :CS3 10DXN426 Exp.:DIOXINRES  
 454.9728 S:2 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



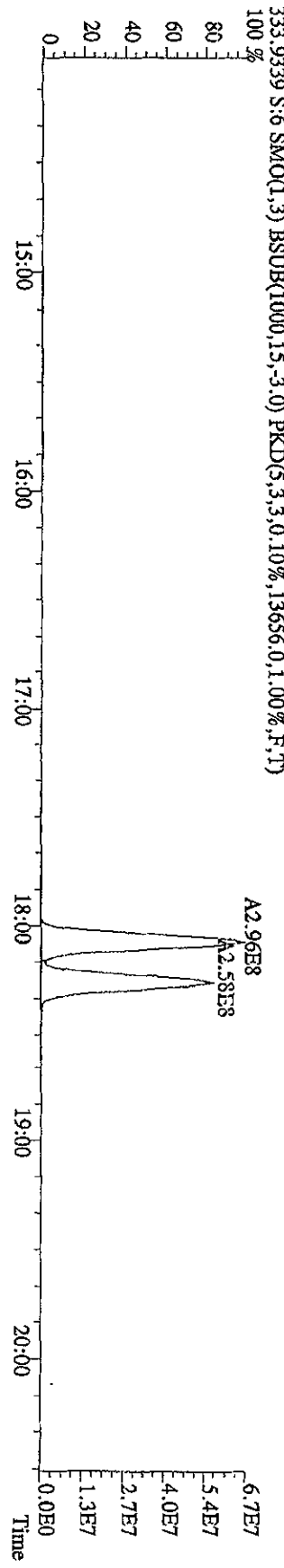
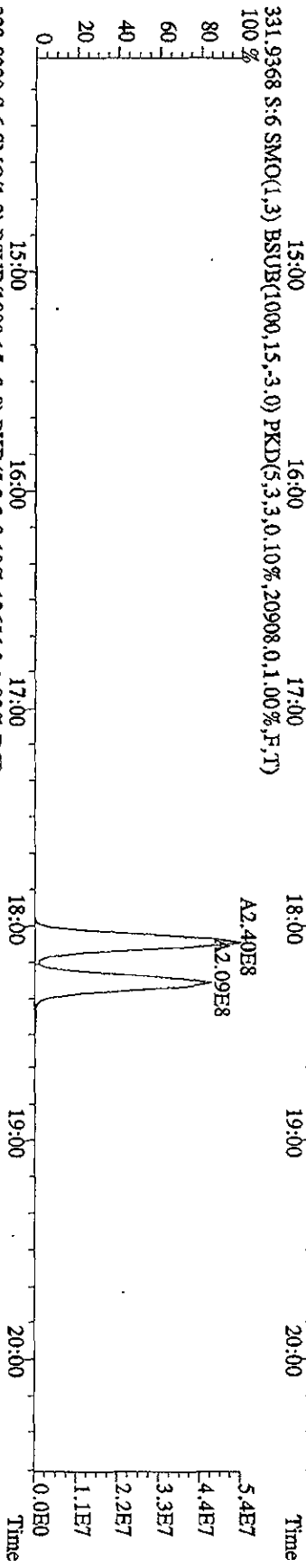
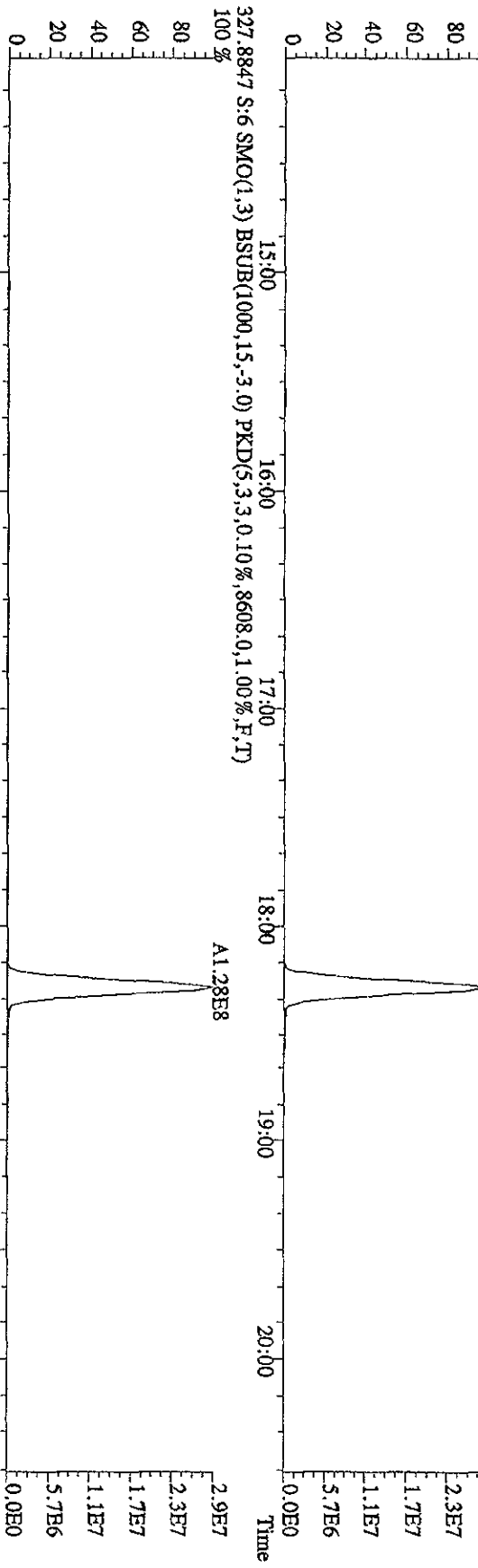
File: 14SEI01D5 #1-382 Acq: 14-SEP-2010 14:11:20 GC EI+ Voltage STR 70SE  
 Sample#6 Text: ST0914D .CS4 10DXN337 Exp: DIOXINRES  
 303.9016 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5308,0,1,00%,F,T)  
 100 %



File:14SEI01D5 #1-382 Acq:14-SEP-2010 14:11:20 GC EI + Voltage SIR 70SE  
 Sample#6 Text:ST0914D :CS4 10DXN337 Exp:DIOXINRES  
 319.8965 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7144.0,1.00%,F,T)  
 100 %

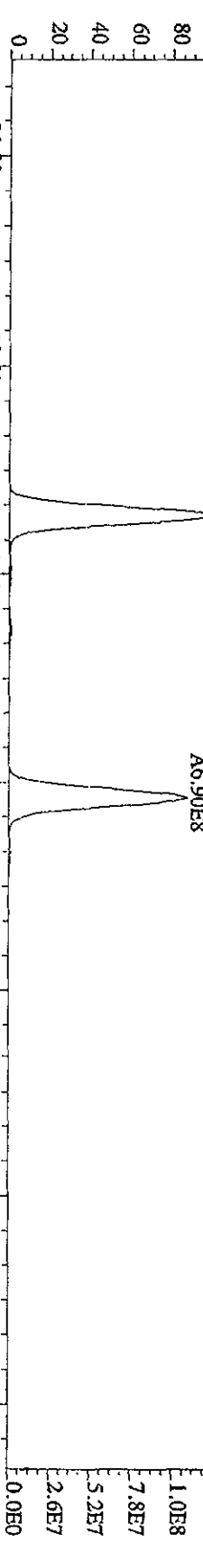


File:14SEI01D5 #1-382 Acq:14-SEP-2010 14:11:20 GC EI+ Voltage SIR 70SE  
 Sample#6 Text:ST0914D .CS4 10DXN337 Exp:DIOXINRES  
 327,8847 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8608,0,1,00%,F,T)  
 100 %

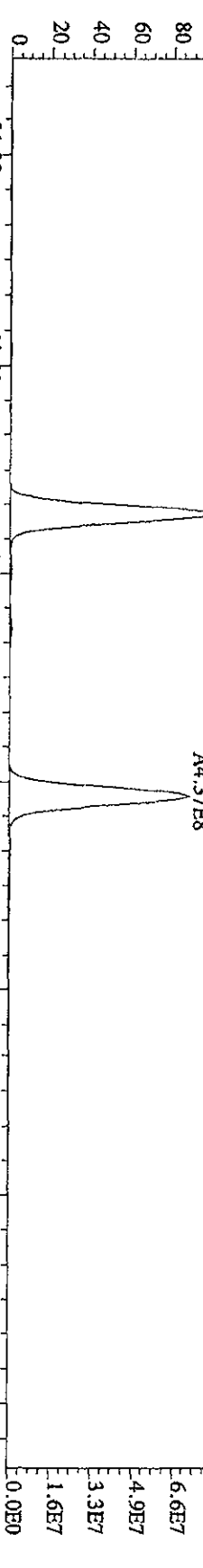




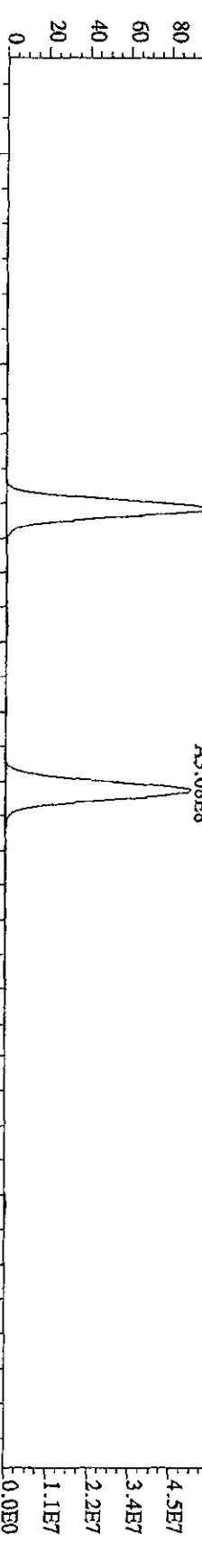
File:14SE101D5 #1-422 Acq:14-SEP-2010 14:11:20 GC EI+ Voltage SIR 70SE  
 Sample#6 Text:ST0914D :CS4 10DXN337 Exp.:DIOXINRES  
 339.8597 S:6 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8920,0,1.00%,F,T)  
 100 % A7.46E8



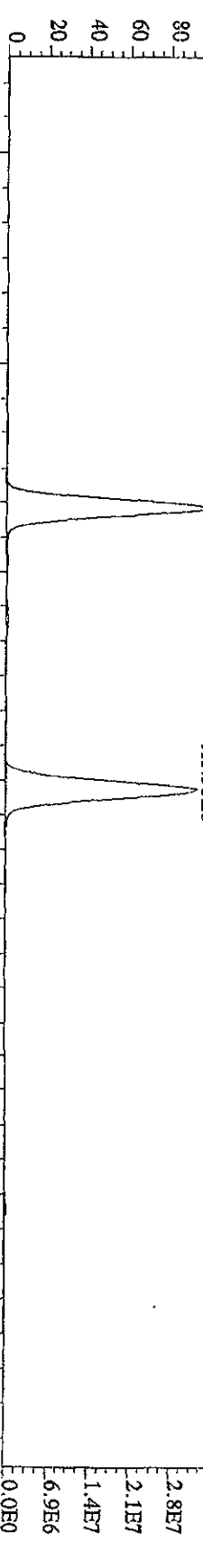
341.8567 S:6 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12968,0,1.00%,F,T)  
 100 % A4.73E8



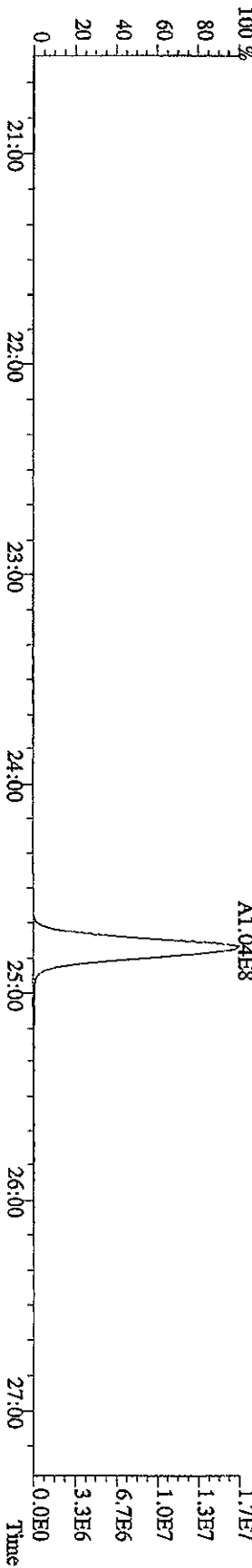
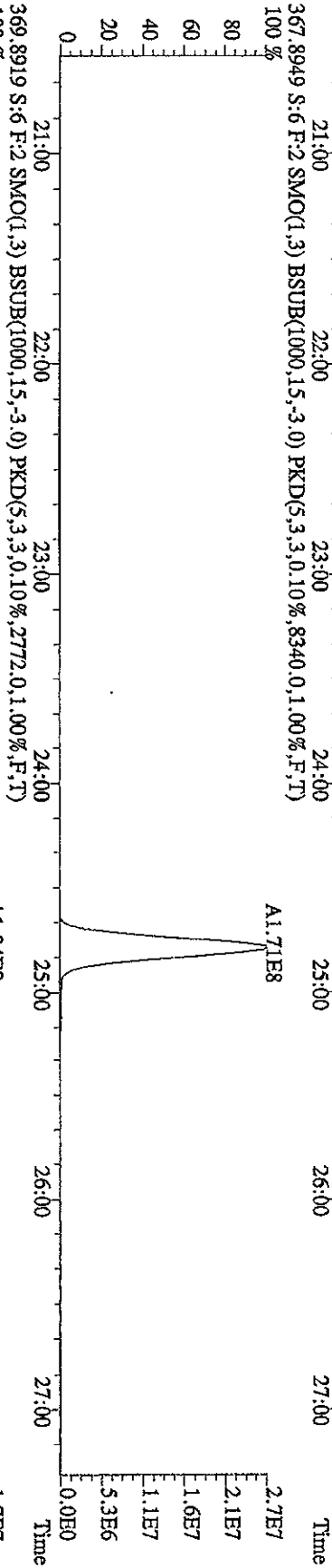
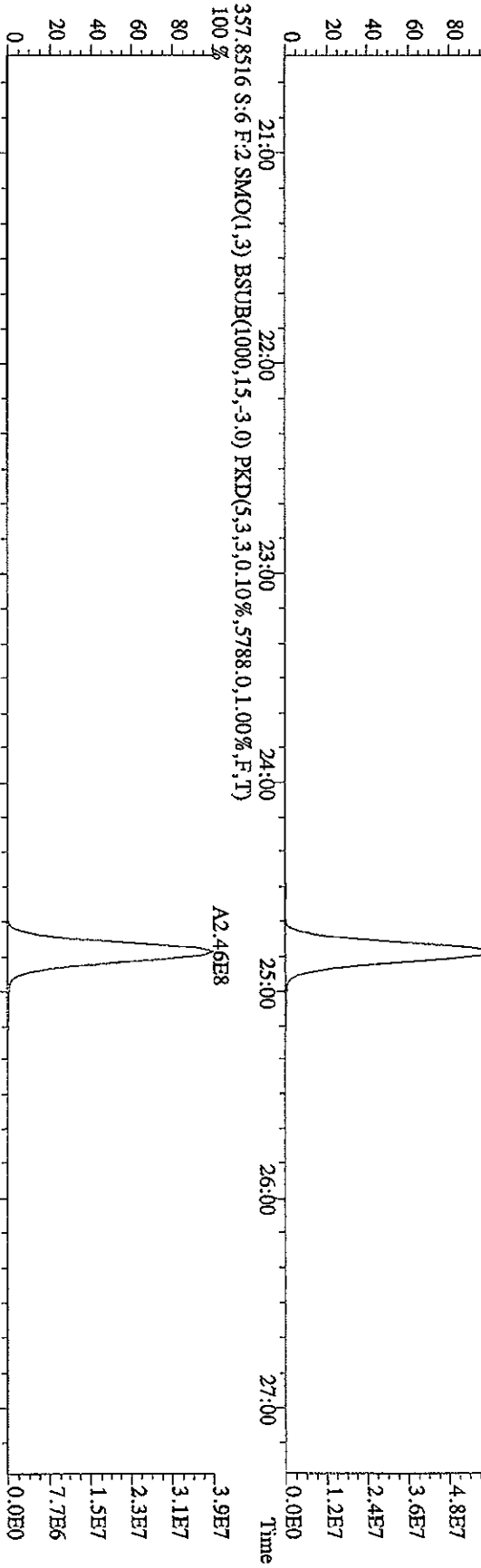
351.9000 S:6 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3404,0,1.00%,F,T)  
 100 % A3.18E8



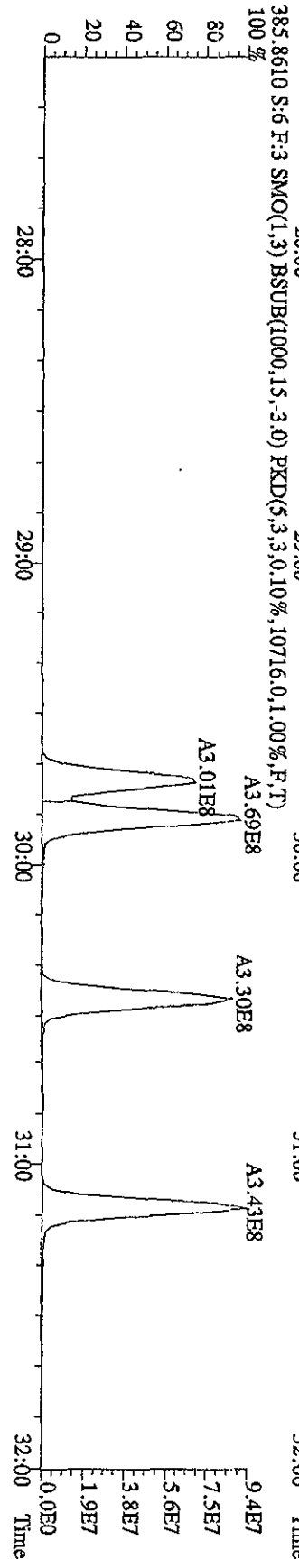
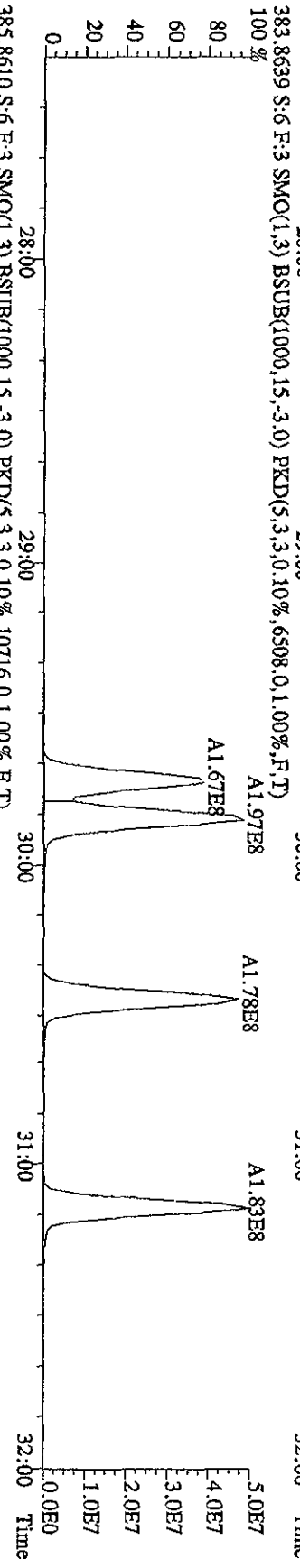
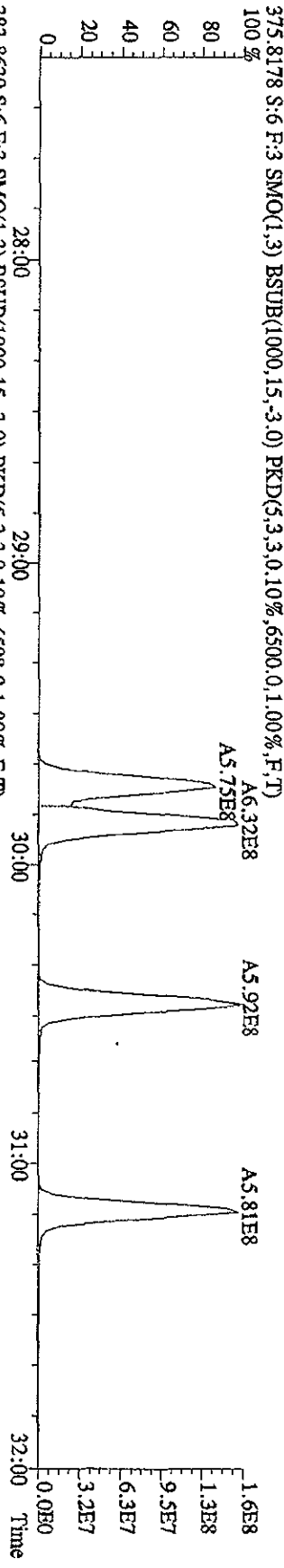
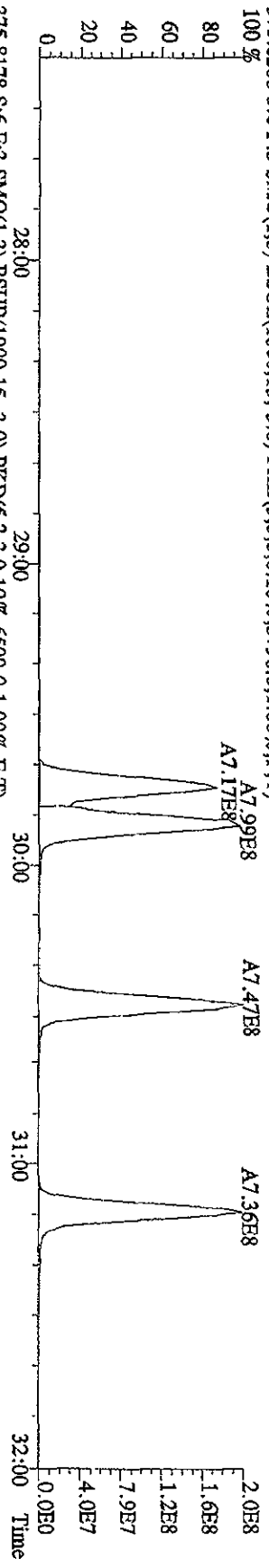
353.8970 S:6 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6696,0,1.00%,F,T)  
 100 % A1.94E8



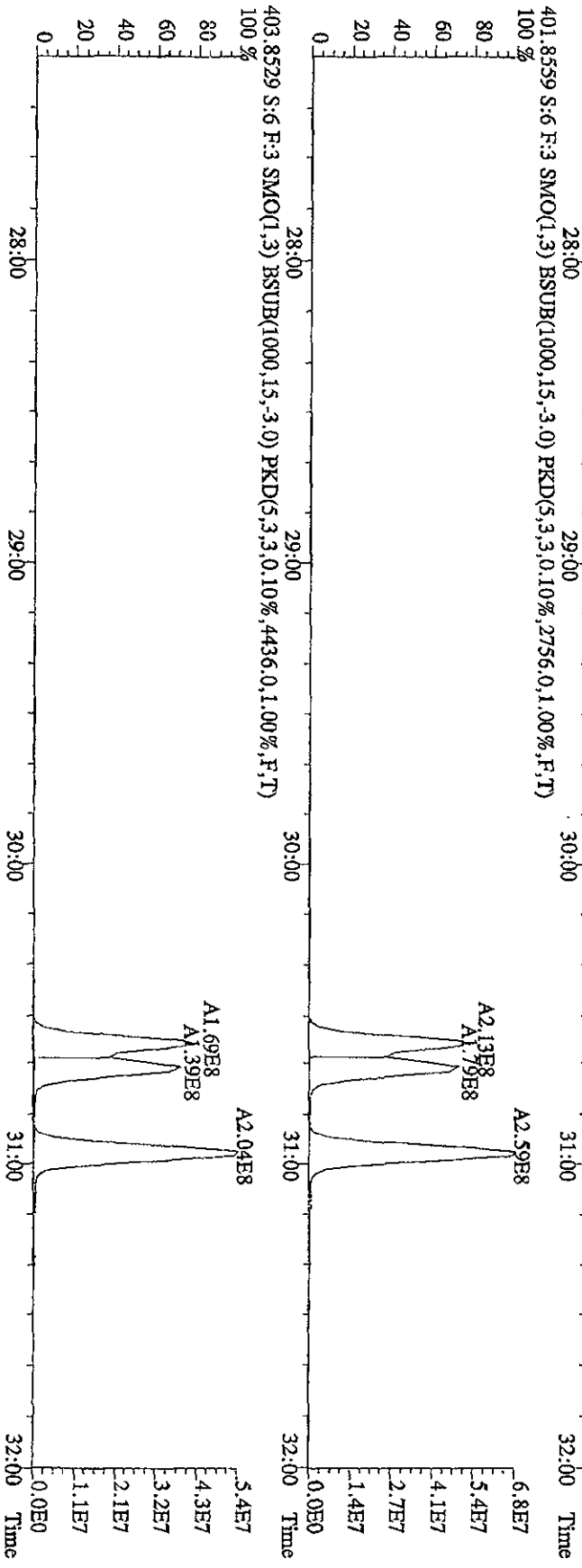
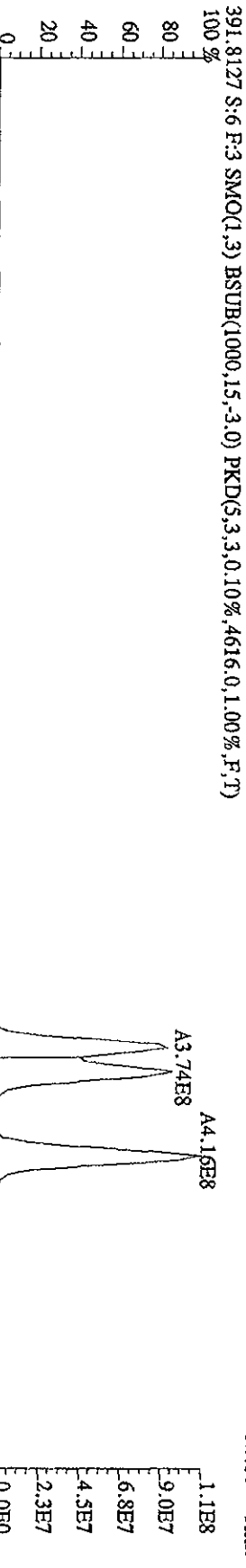
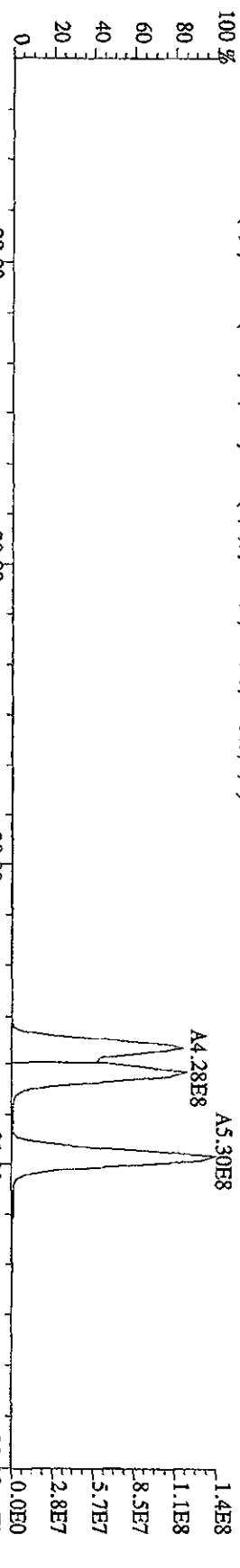
File: 14SEI01D5 #1-422 Acq: 14-SEP-2010 14:11:20 GC BI+ Voltage SIR 70SE  
 Sample#6 Text: ST0914D :CS4 10DXN337 Exp: DIOXINRES  
 355.8546 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7464,0.1,0.00%,F,T)  
 100 %



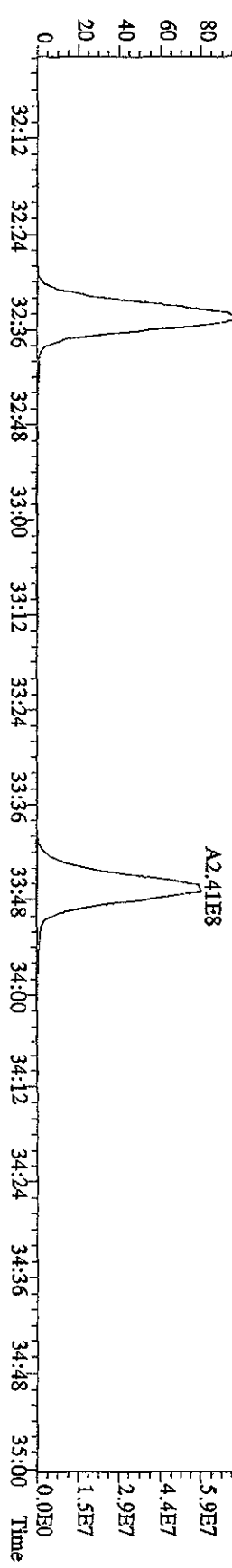
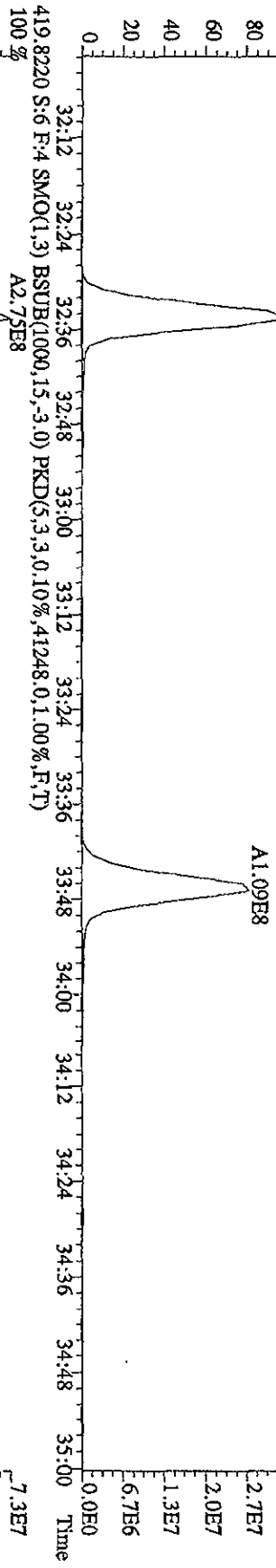
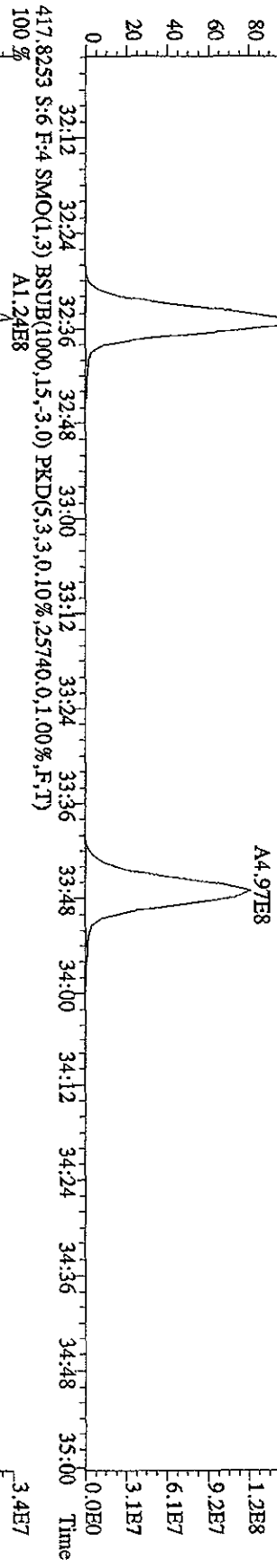
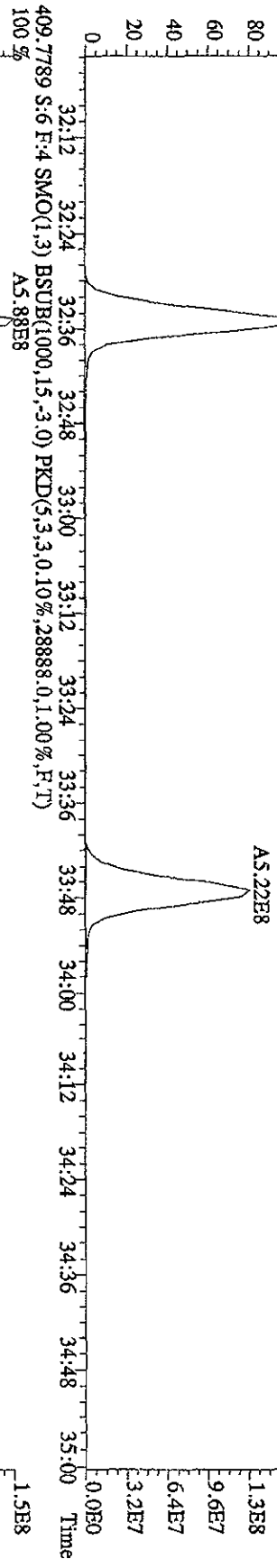
File:14SEP10ID5 #1-301 Acq:14-SEP-2010 14:11:20 GC EI+ Voltage SIR 70SE  
 Sample#6 Text:ST0914D :CS4 10DXN337 Exp:DIOXINRES  
 373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5796,0,1,00%,F,T)



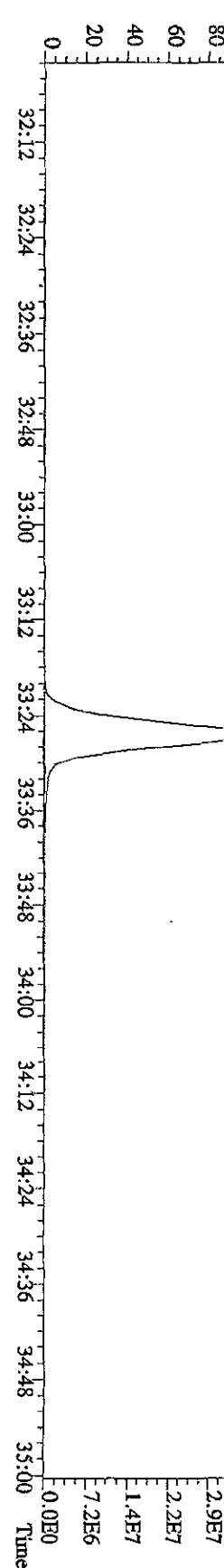
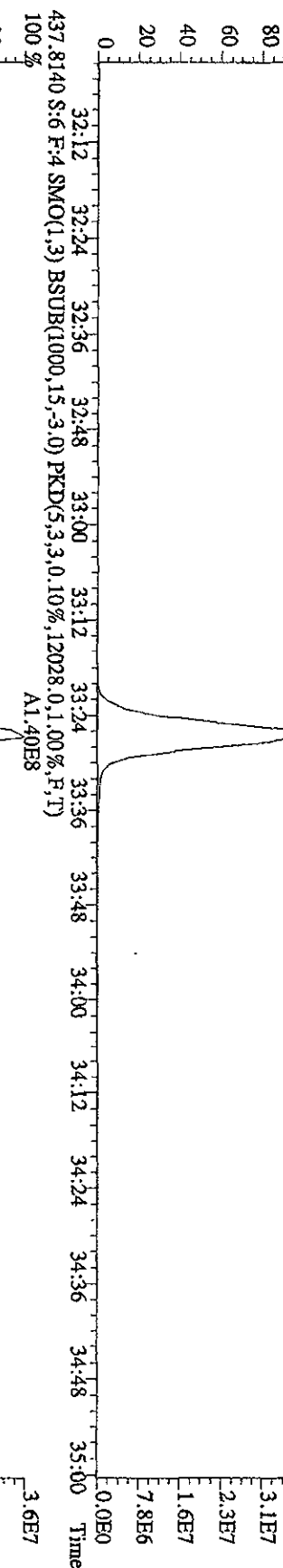
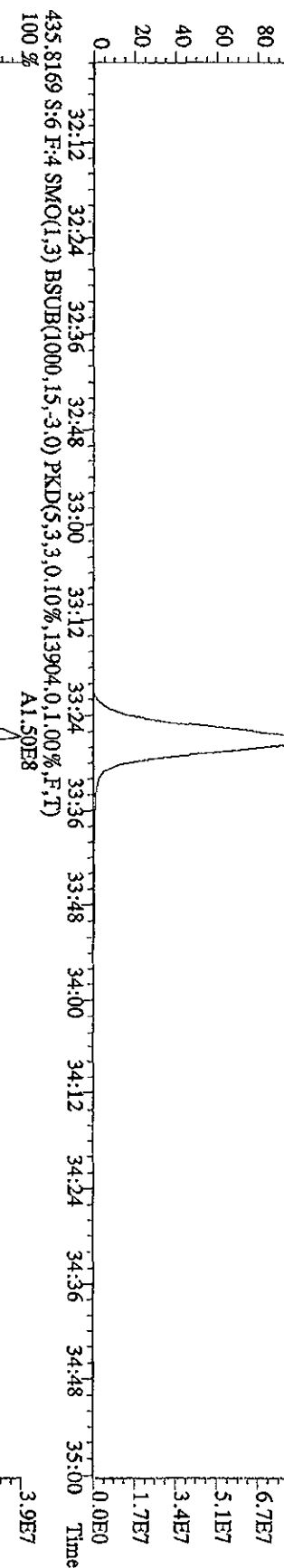
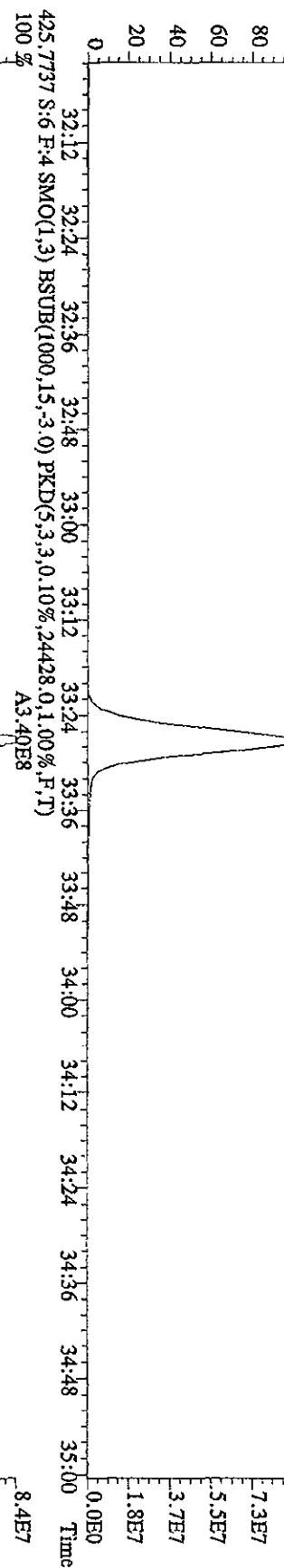
File: 14SEP10ID5 #1-301 Acq: 14-SEP-2010 14:11:20 GC EI + Voltage SIR 70SE  
 Sample#6 Text: ST0914D ;CS4 10DXN337 Exp: DIOXINRES  
 389 8157 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1.916,0.1,0.00%,F,T)  
 100%



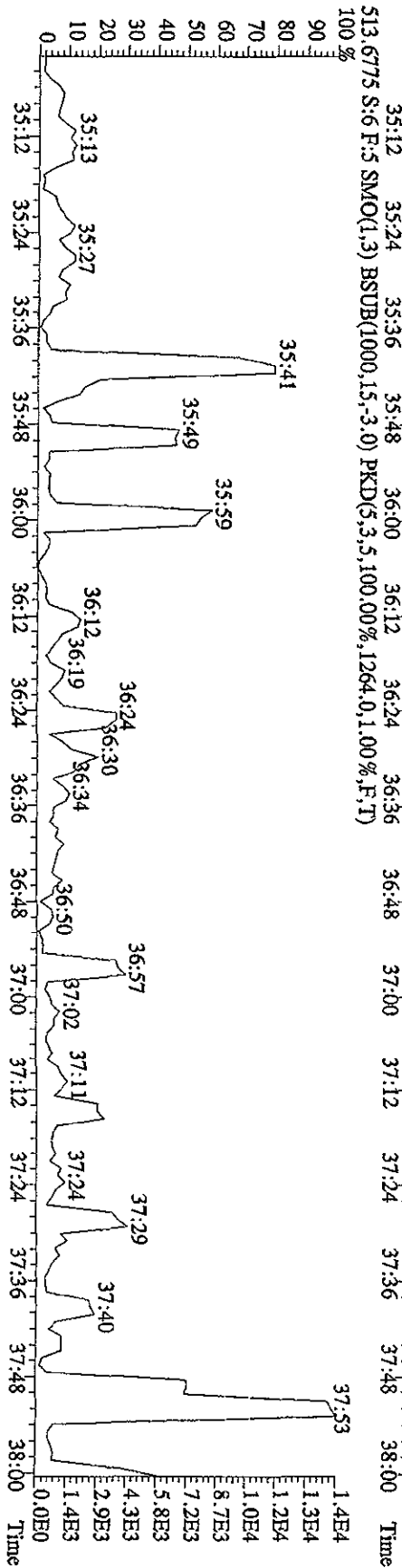
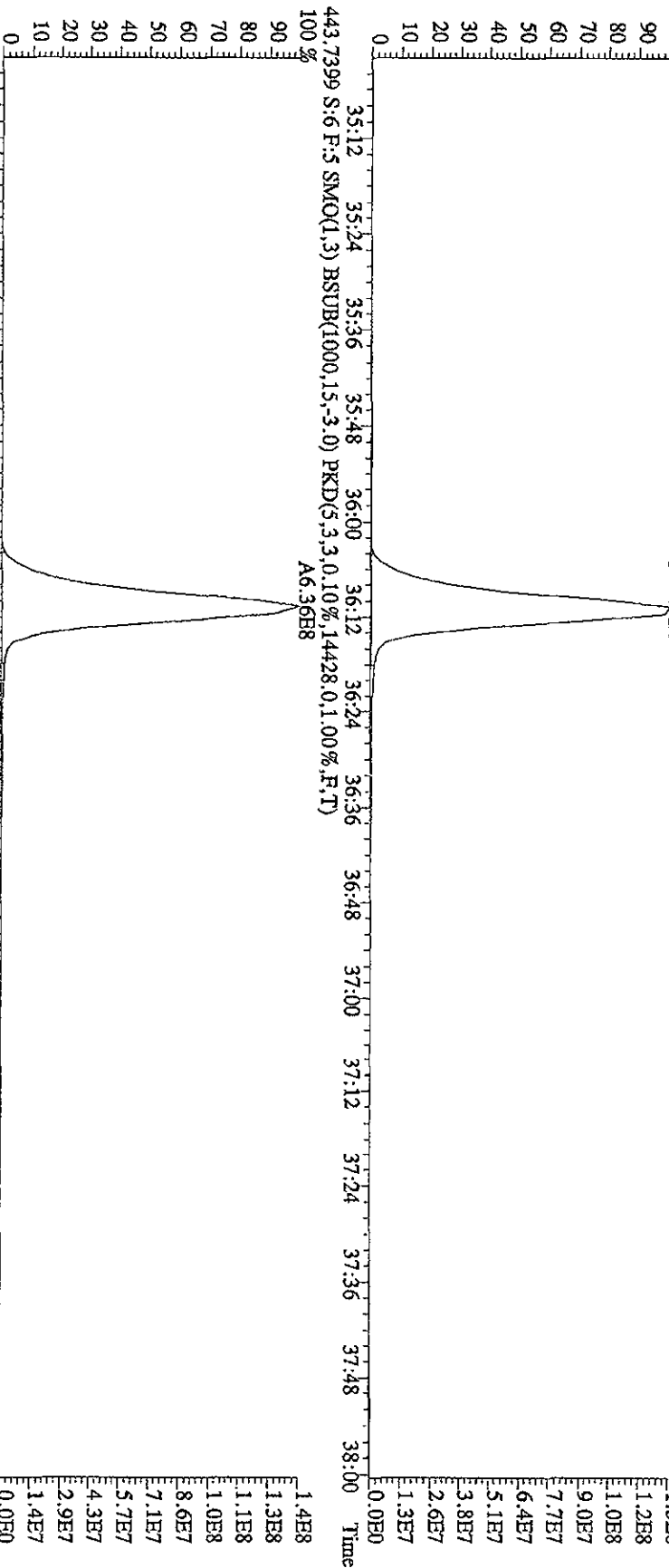
File: 14SE101D5 #1-203 Acq: 14-SEP-2010 14:11:20 GC EI+ Voltage SIR 70SE  
 Sample#6 Text: ST0914D :CS4 10DXN337 Exp: DIOXINRES  
 407.7818 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,28324,0.1,00%,F,T)



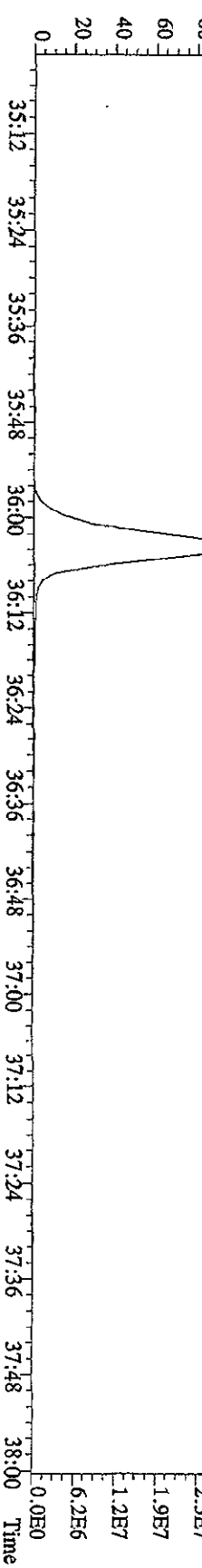
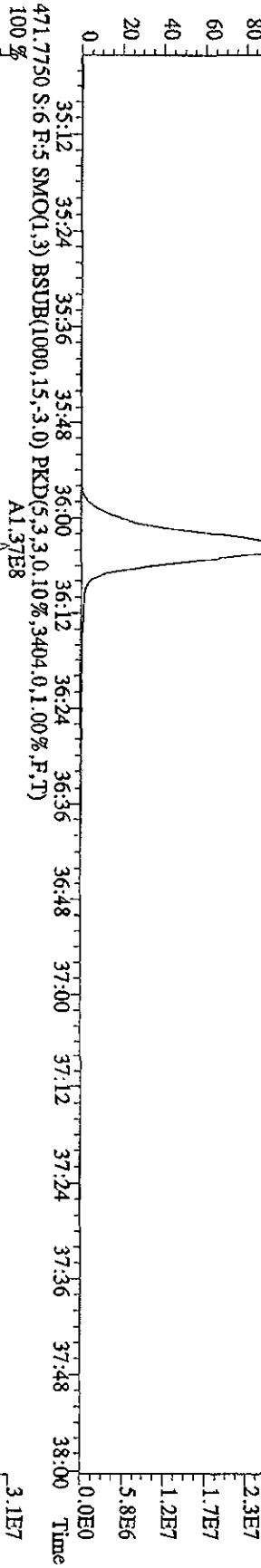
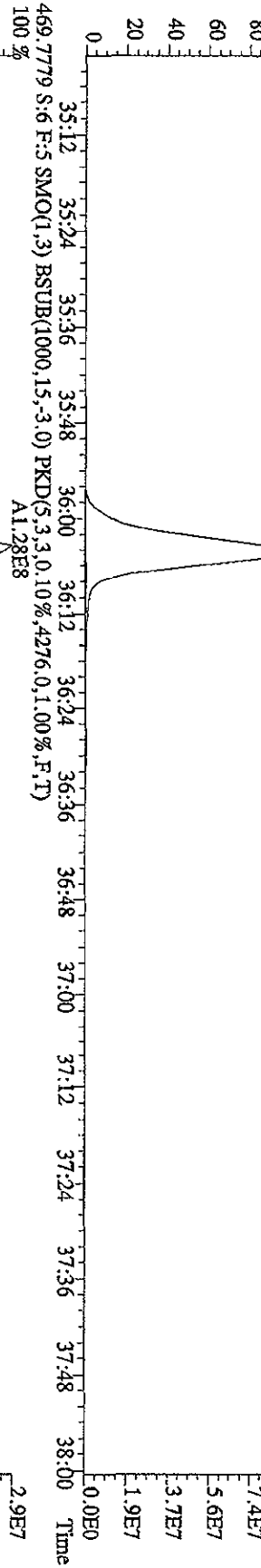
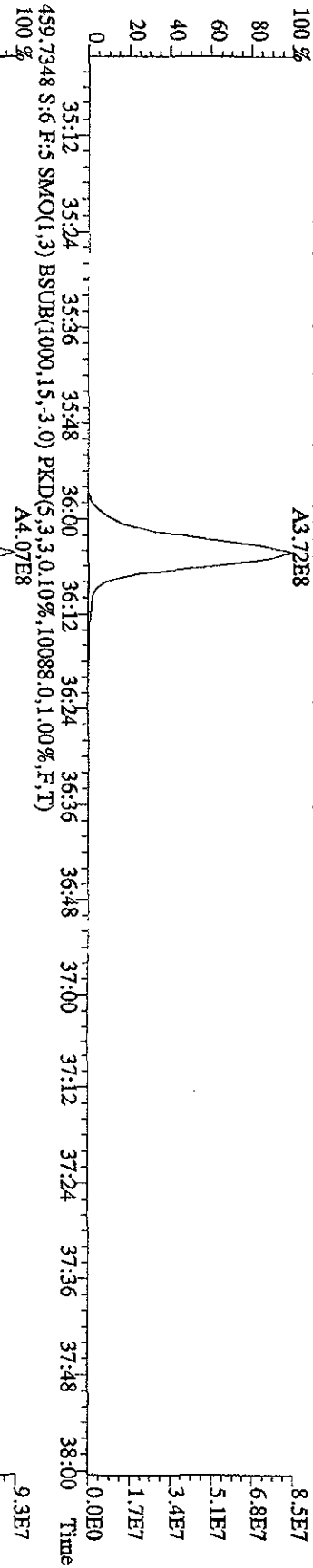
File: 14SE101D5 #1-203 Acq: 14-SEP-2010 14:11:20 GC EI+ Voltage SIR 70SE  
 Sample#6 Text: ST0914D :CS4 10DXN37 Exp: DIOXINRES  
 423.7737 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,24428,0,1,00%,F,T)  
 100% A3.61E8



File: 14SE101D5 #1-196 Acq: 14-SEP-2010 14:11:20 GC EI+ Voltage SIR 70SE  
 Sample#6 Text: ST0914D :CS4 10DXN37 Exp: DIOXINRES  
 441.7428 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9952,0.1,00%,F,T)  
 A5.81E8

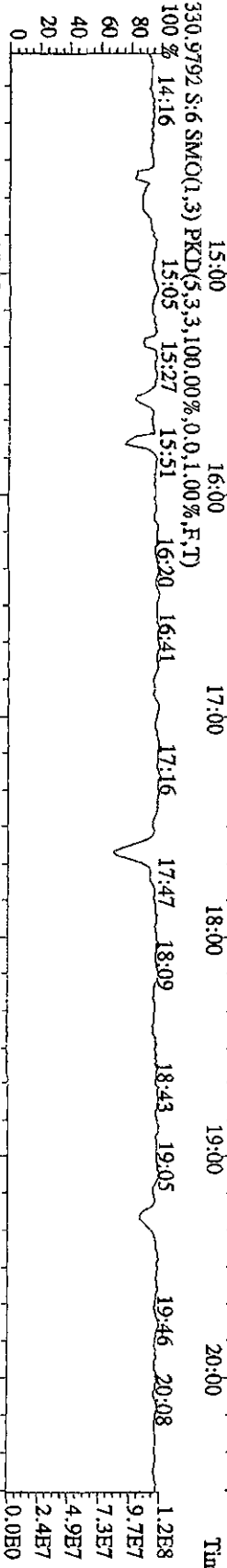
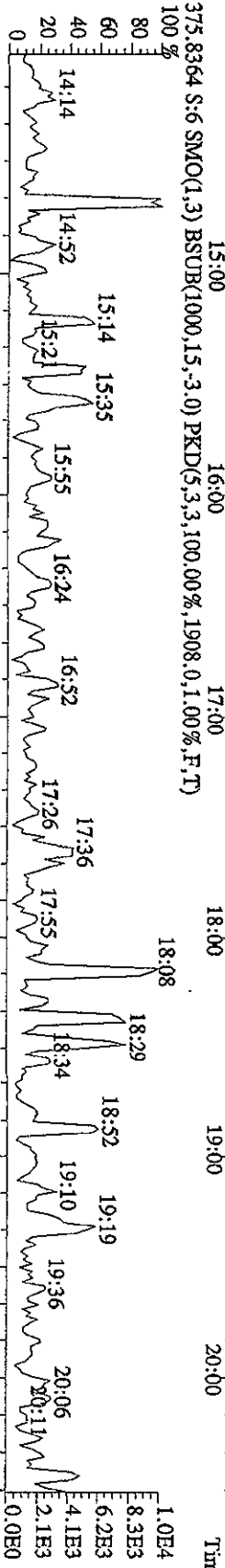
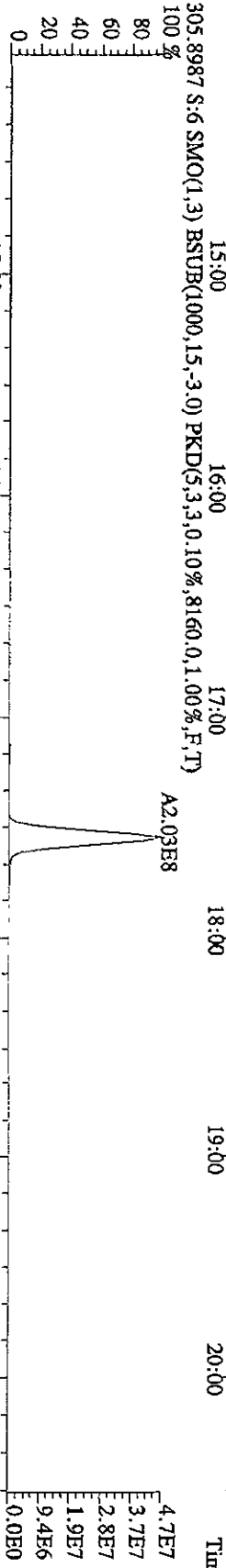
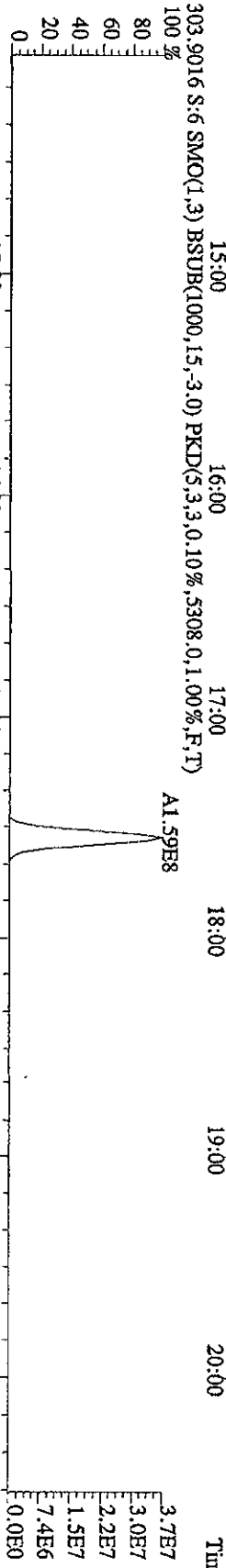
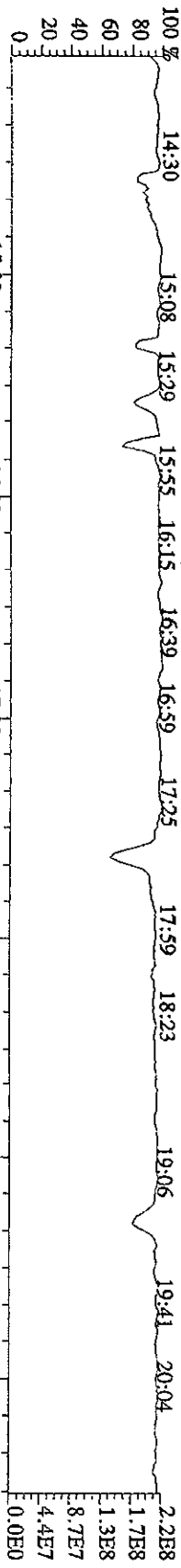


File: 14SEB101D5 #1-196 Acq: 14-SEP-2010 14:11:20 GC EI + Voltage SIR 70SE  
 Sample#6 Text: ST0914D .CS4 10DXN337 Exp: DIOXINES  
 457.7377 S:6 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,12488,0,1,00%,F,T)  
 100% A3.72E8

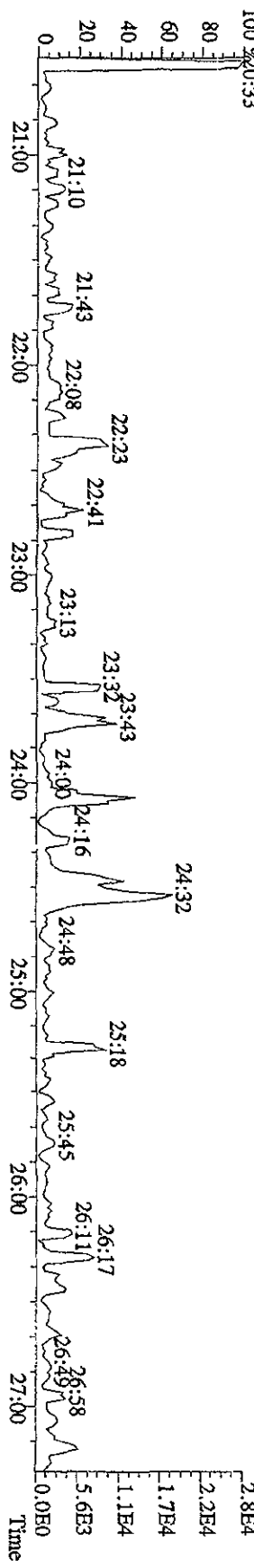
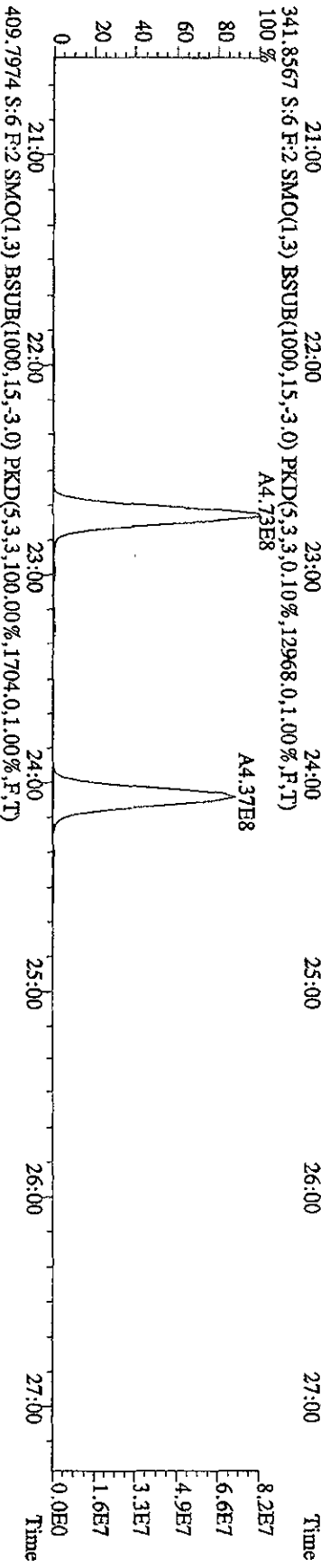
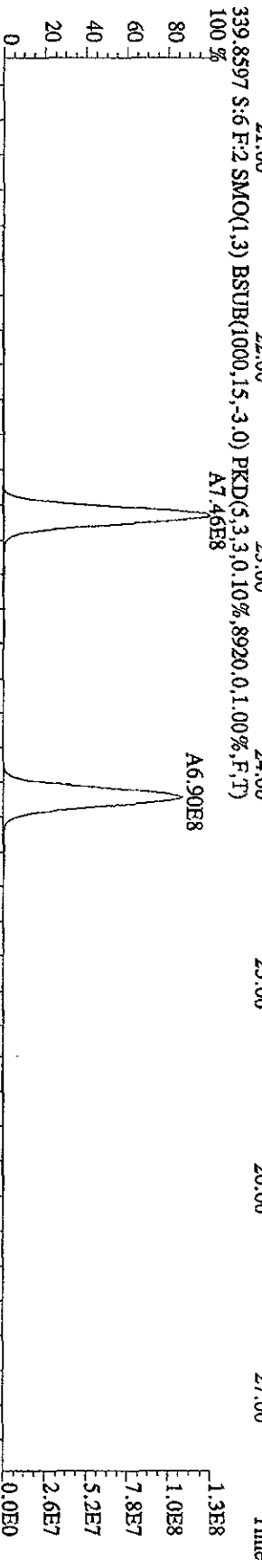
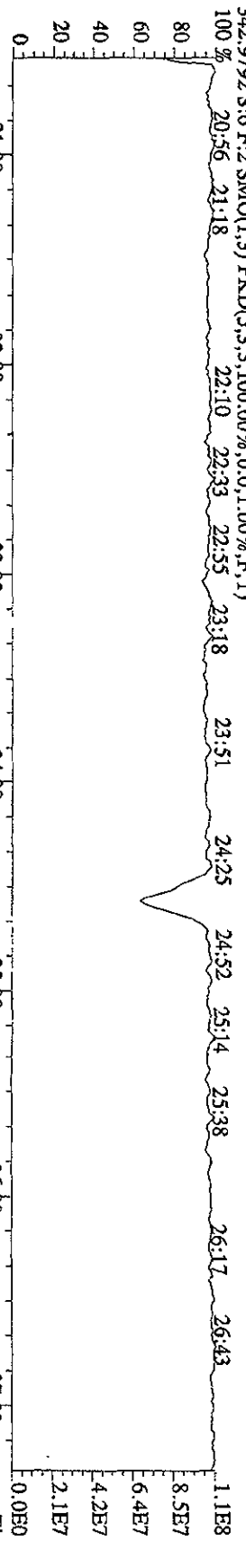




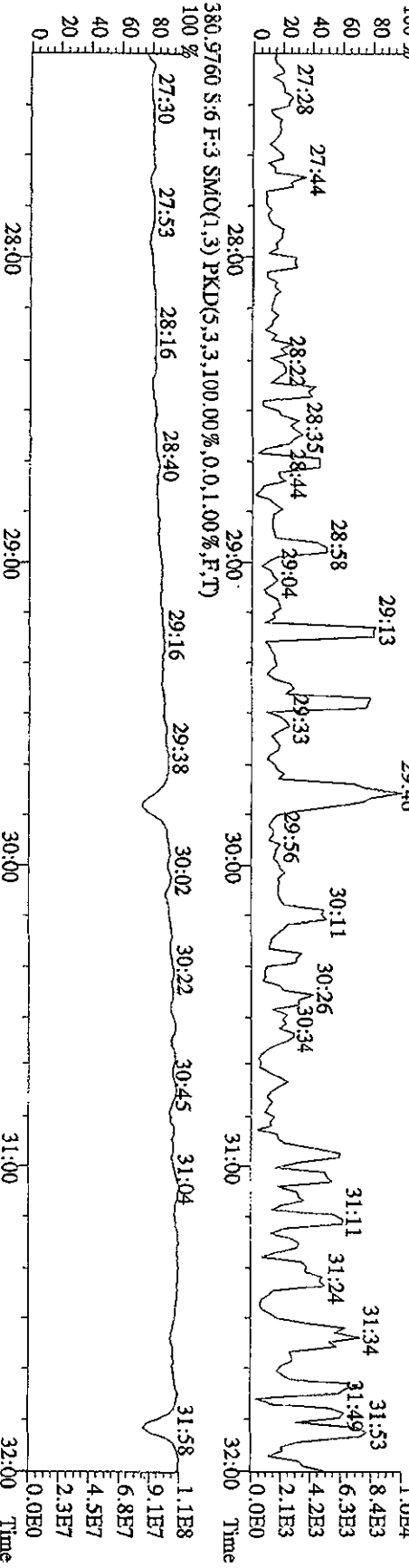
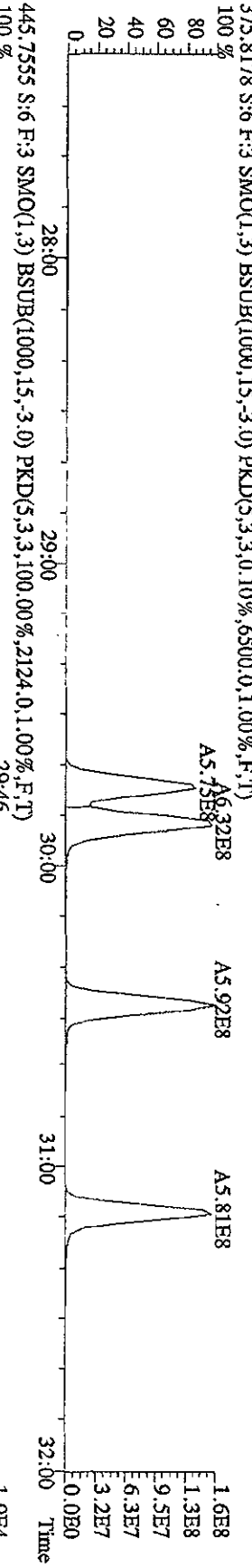
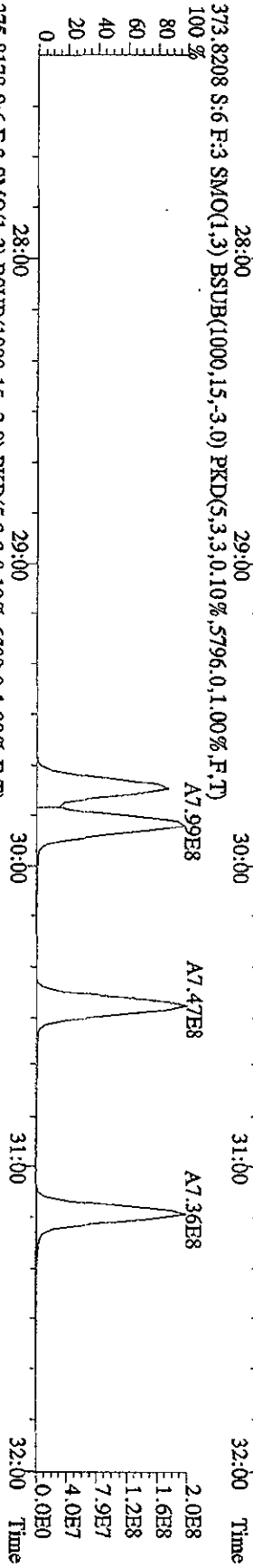
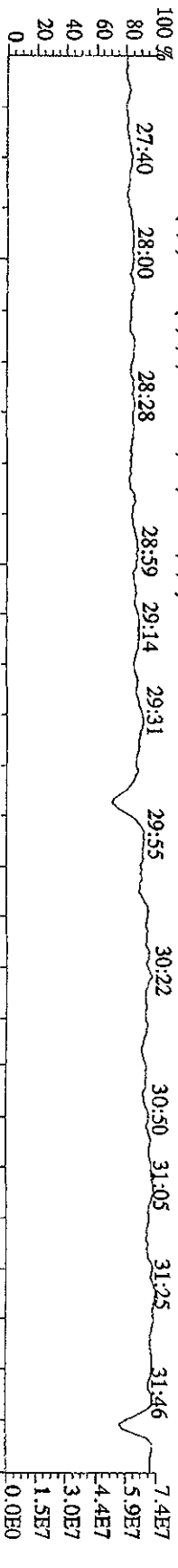
File: 14SE101D5 #1-382 Acq: 14-SEP-2010 14:11:20 GC EI+ Voltage SIR 70SE  
 Sample#6 Text: ST0914D :CS4 10DXN337 Exp: DIOXINRES



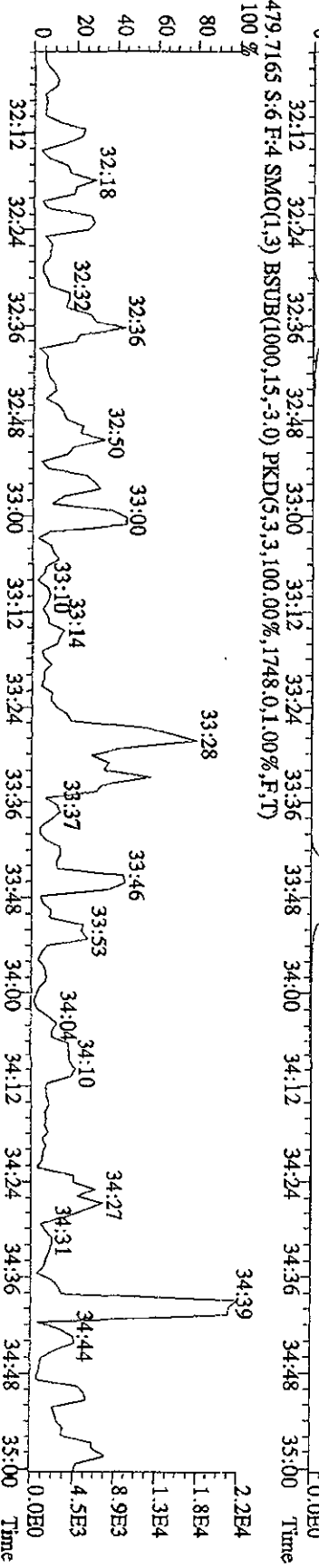
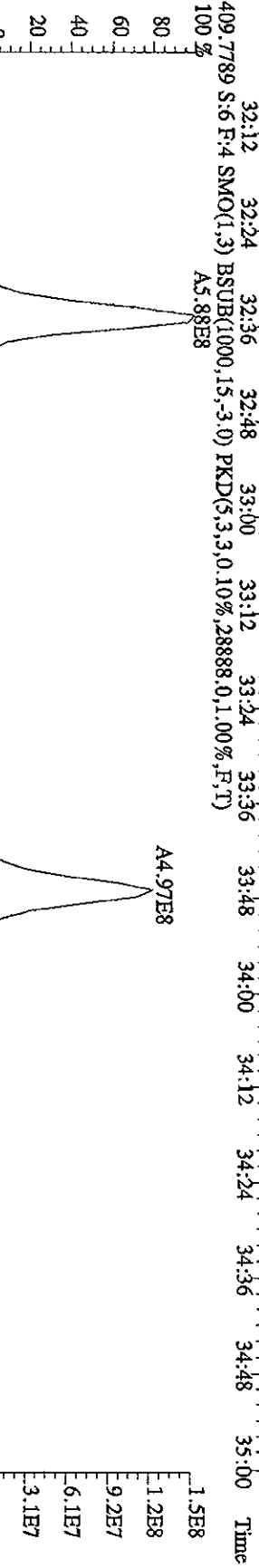
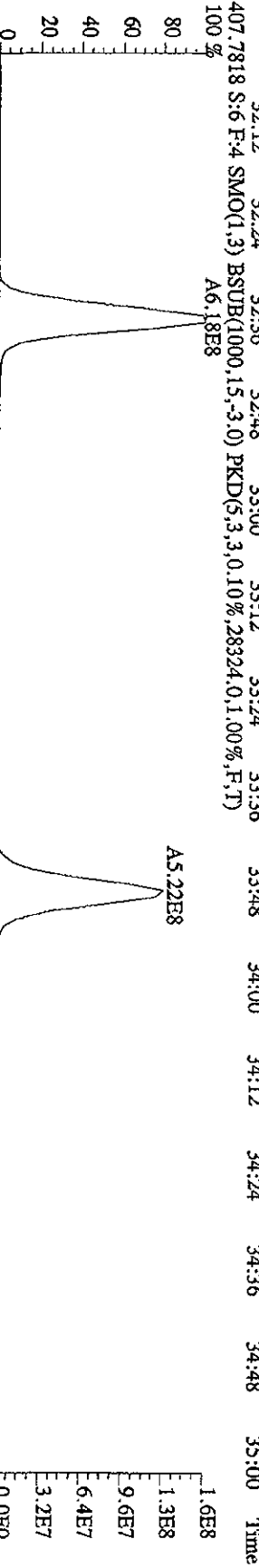
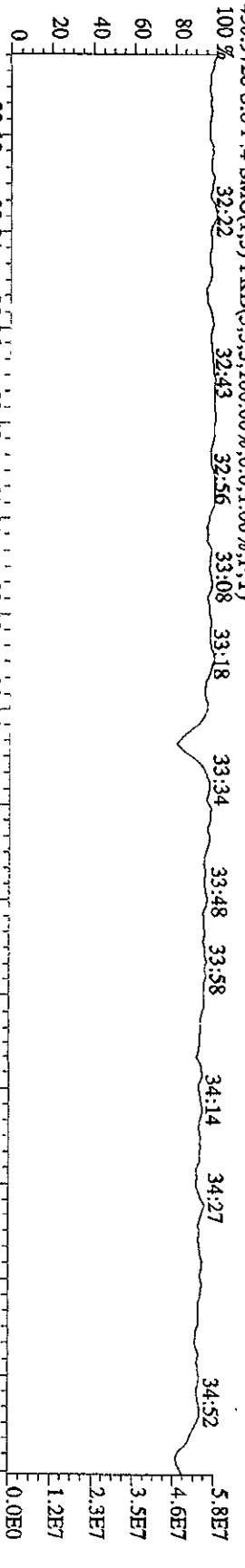
File: 14SE10101D5 #1-422 Acq: 14-SEP-2010 14:11:20 GC EI + Voltage SIR 70SE  
 Sample#6 Text: ST0914D :CS4 10DXN337 Exp.: DIOXINRES



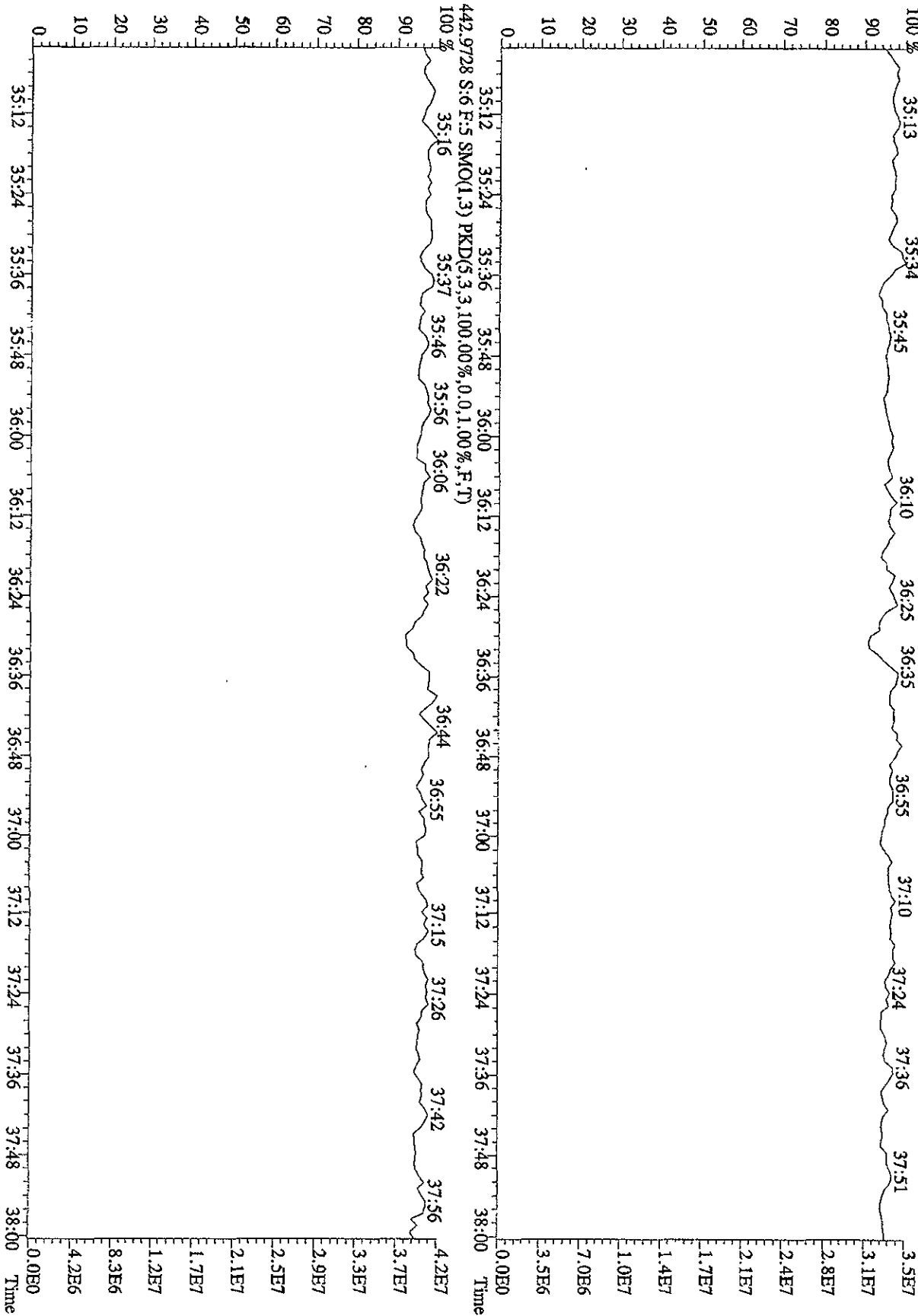
File: 14SEI01D5 #1-301 Acq: 14-SEP-2010 14:11:20 GC EI+ Voltage SIR 70SE  
 Sample#6 Text: ST0914D :CS4 10DXN337 Exp: DIOXINRES  
 392.9760 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 375.8178 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6500,0.1,0.0%,F,T)  
 445.7555 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2124,0.1,0.0%,F,T)  
 380.9760 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



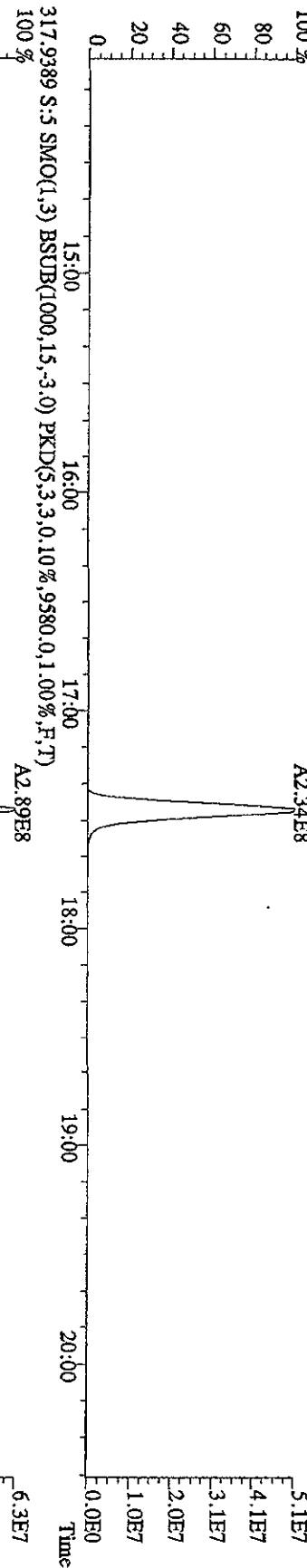
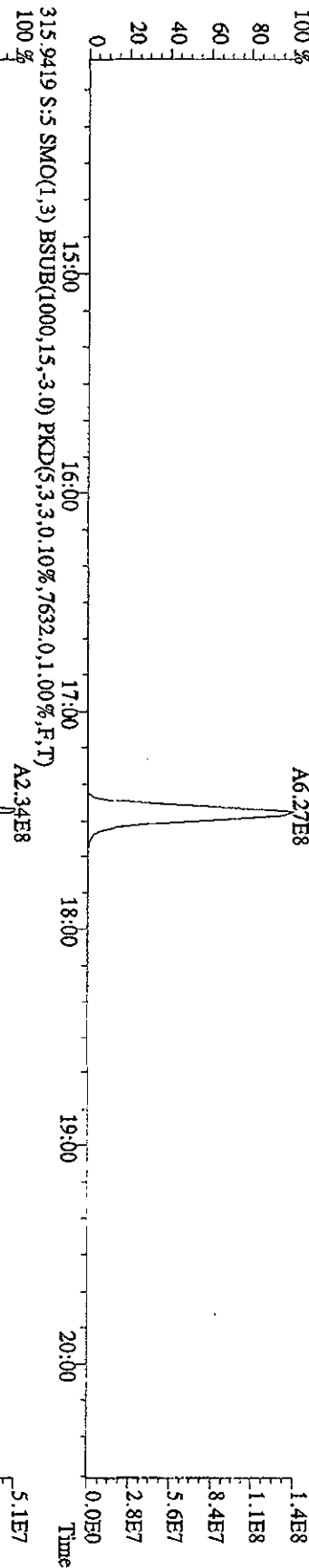
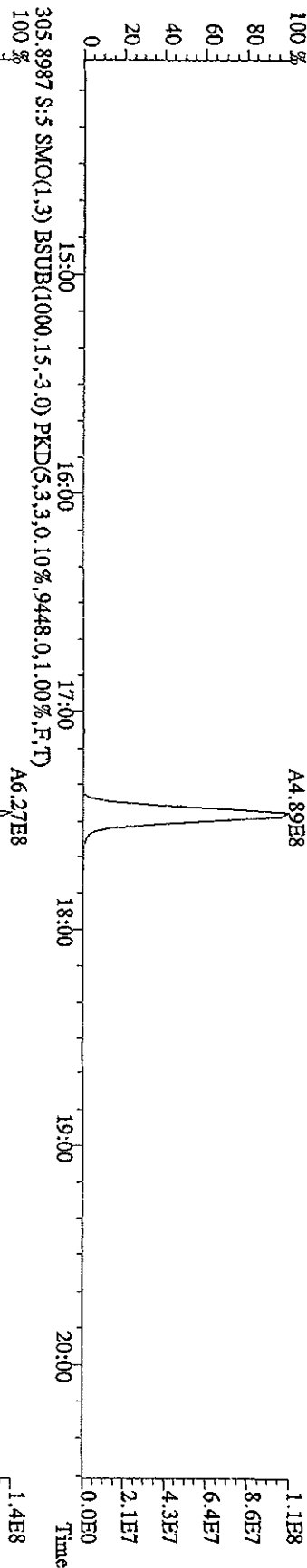
File:14SE101D5 #1-203 Acq:14-SEP-2010 14:11:20 GC EI+ Voltage SIR 70SE  
 Sample#6 Text:ST0914D :CS4 10DXN337 Exp:DIOXINRES



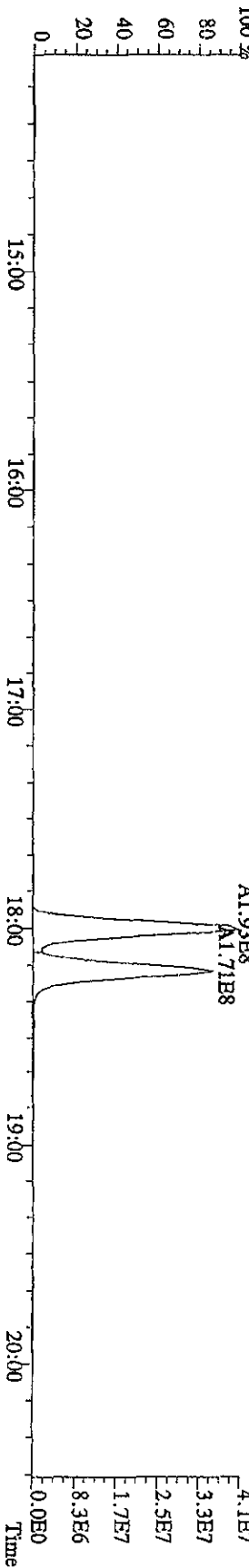
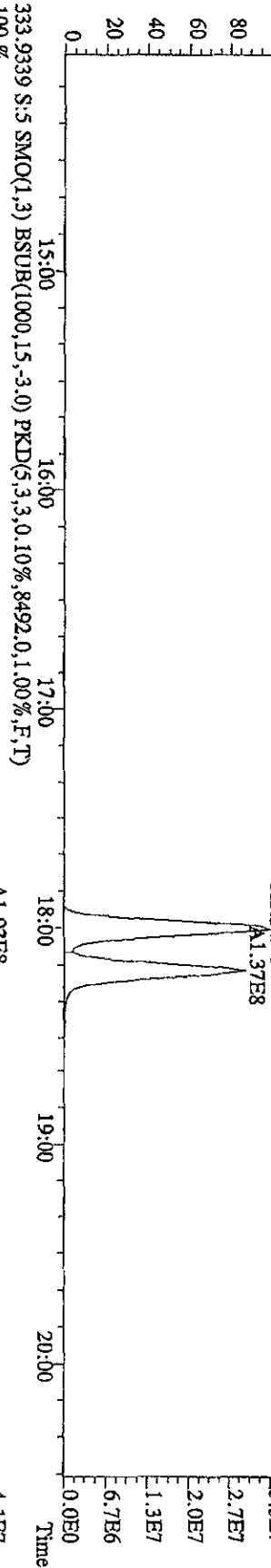
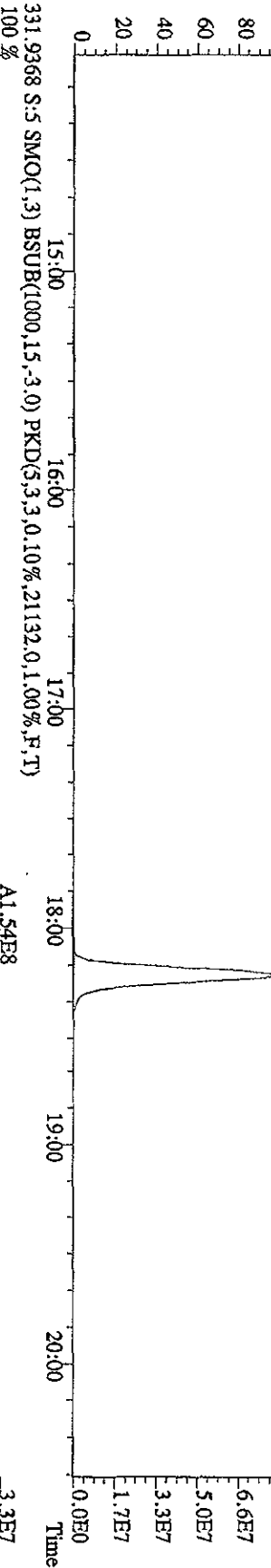
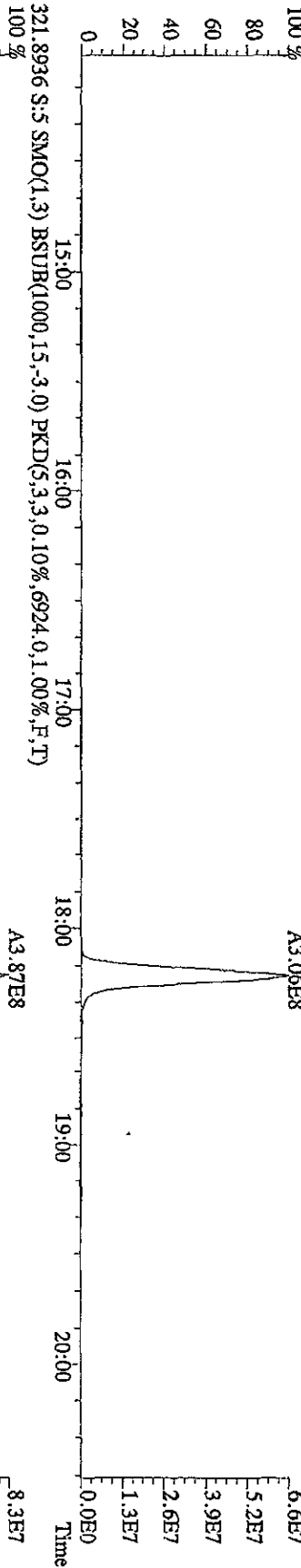
File: 14SE101D5 #1-196 Acq: 14-SEP-2010 14:11:20 GC EI+ Voltage SIR 70SE  
 Sample#6 Text: ST0914D :CS4 10DXN37 Exp: DIOXINRES  
 454.9728 S:6 F:5 SMO(1.3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



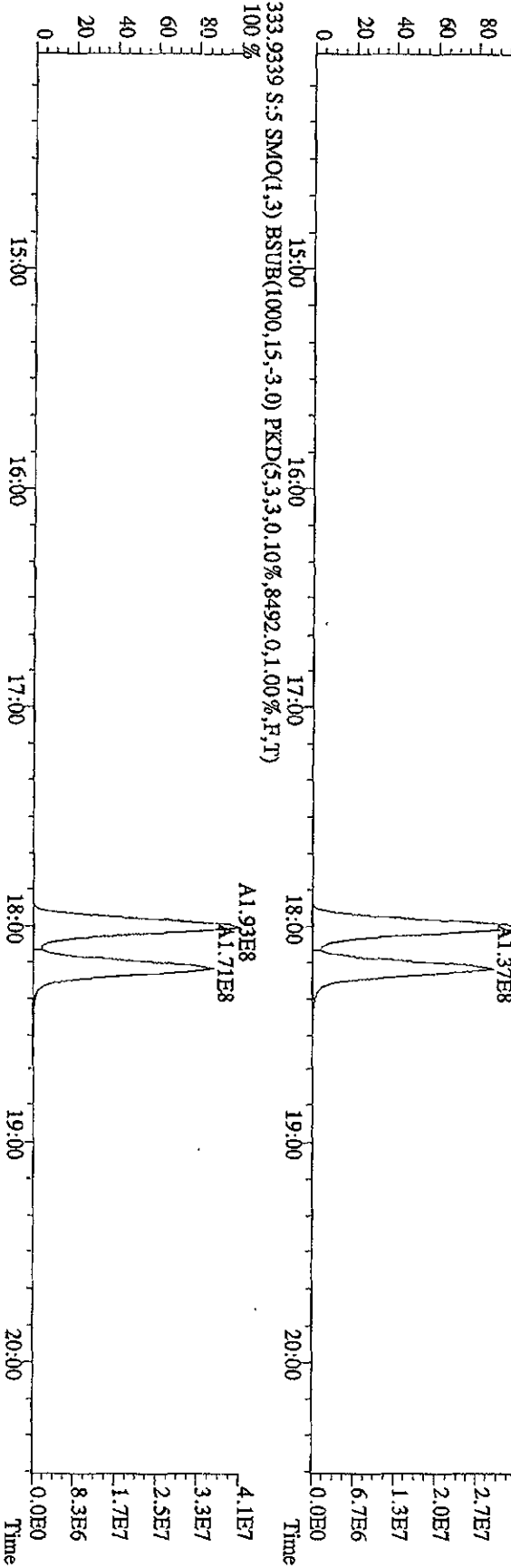
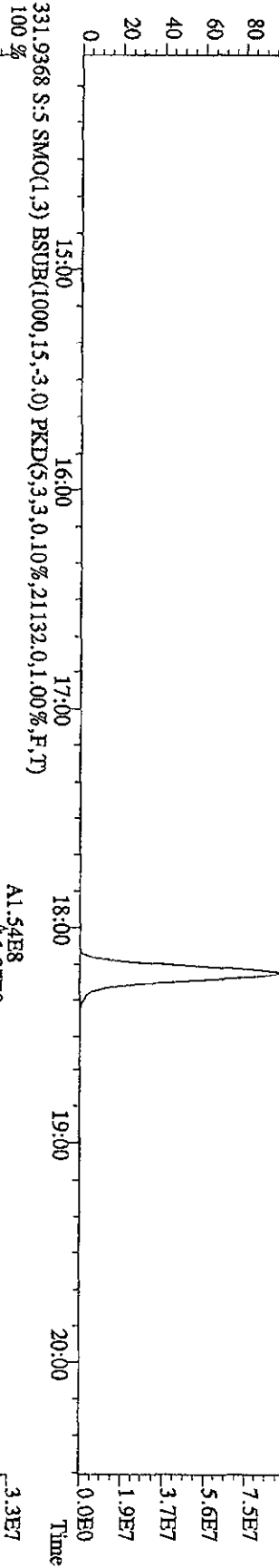
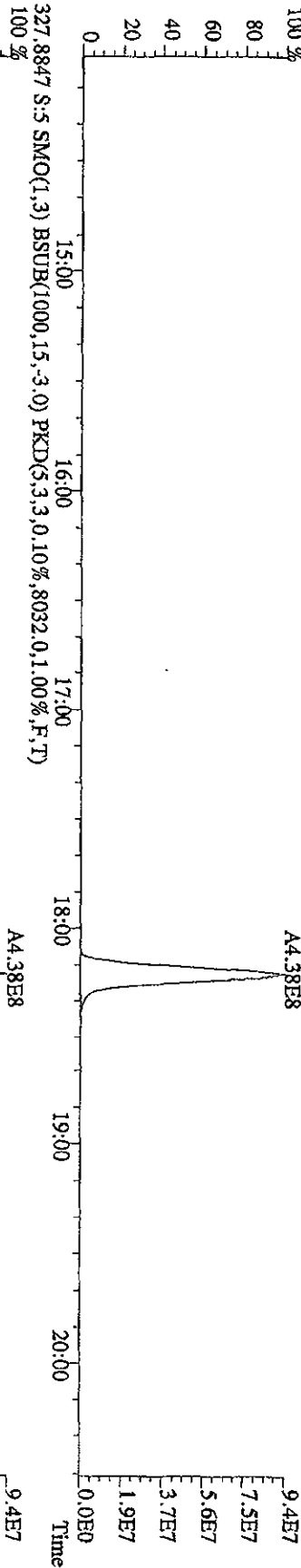
File:14SEI01D5 #1-382 Acq:14-SEP-2010 13:28:23 GC EI + Voltage SIR 70SE  
 Sample#5 Text:ST0914C :CSS 10DXN339 Exp:DIOXINES  
 303.9016 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6764,0,1,00%,F,T)  
 100%



File: 14SE101D5 #1-382 Acq: 14-SEP-2010 13:28:23 GC EI + Voltage: SFR 70SE  
 Sample#5 Text: ST0914C : CS5 10DXN339 Exp: DIOXINRES  
 319.8965 S.S SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6924,0,1,00%,F,T)

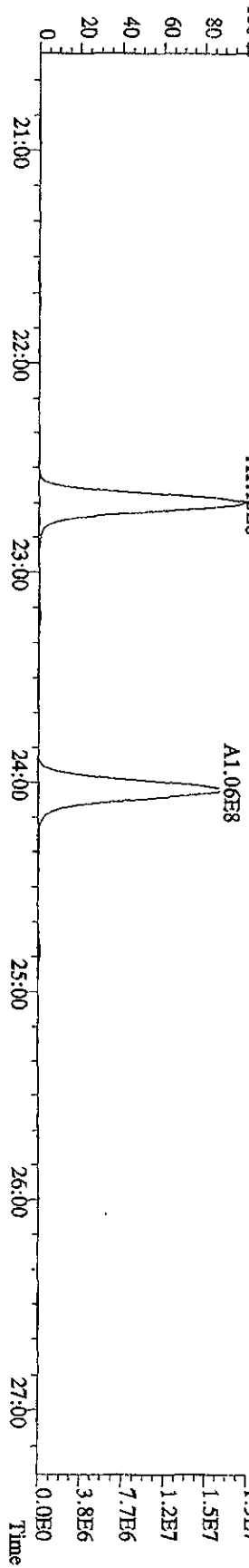
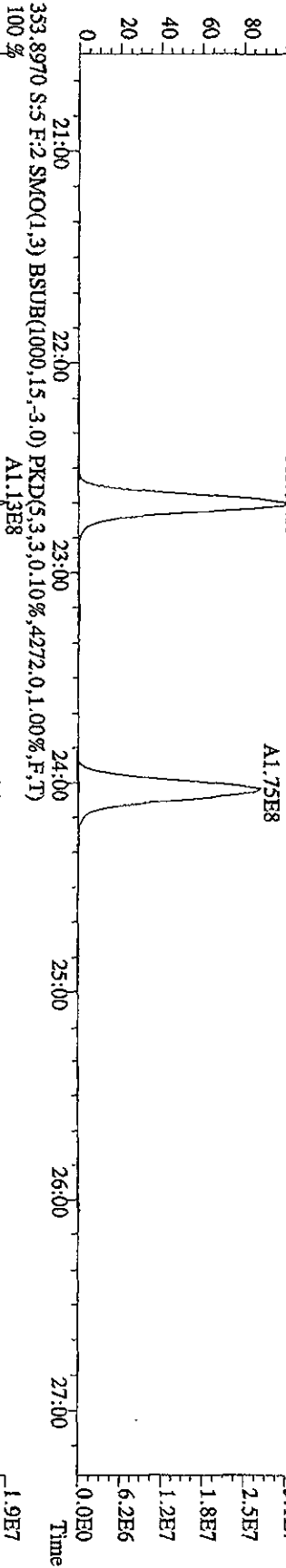
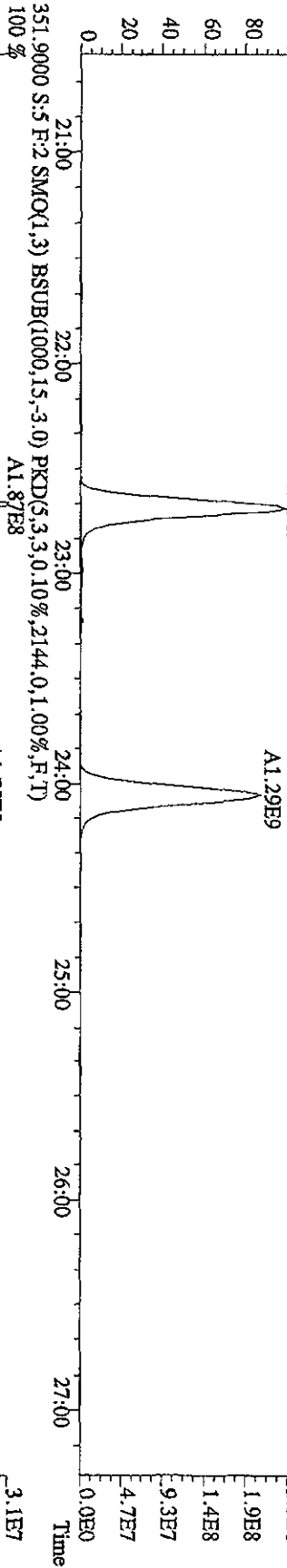
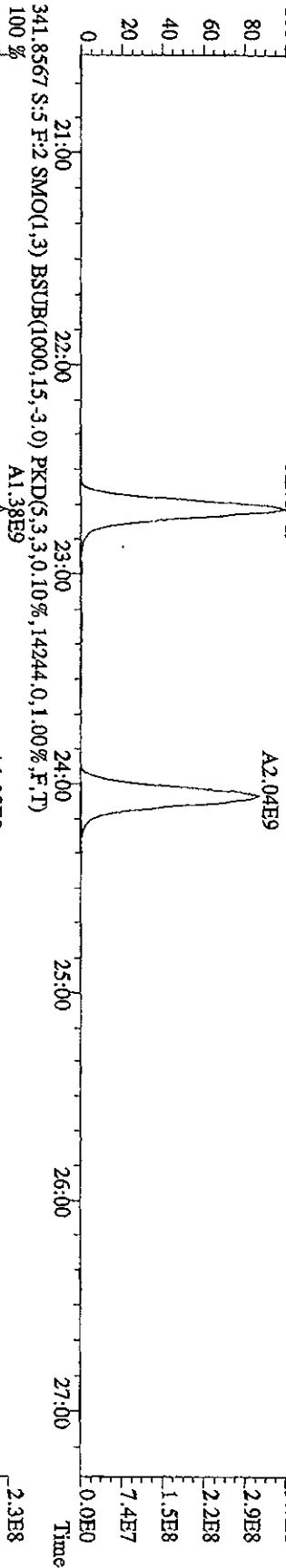


File:14SEB101D5 #1-382 Acq:14-SEP-2010 13:28:23 GC EI+ Voltage SIR 70SE  
 Sample#5 Text:ST0914C :CSS 10DXN339 Exp:DIOXINRES  
 327.8847 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,8032,0,1,00%,F,T)

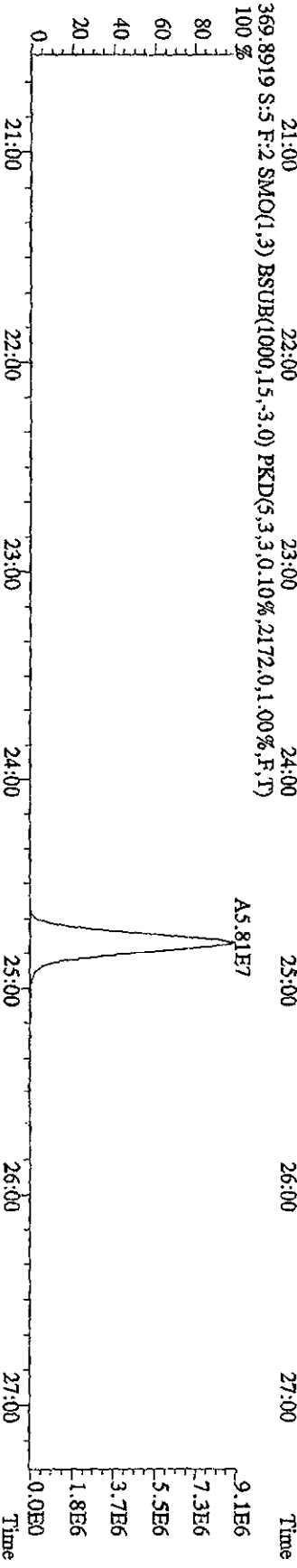
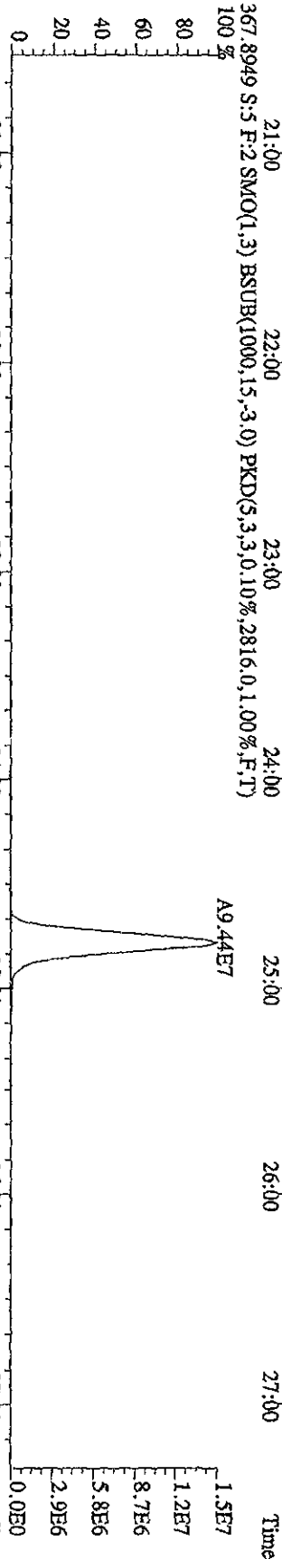
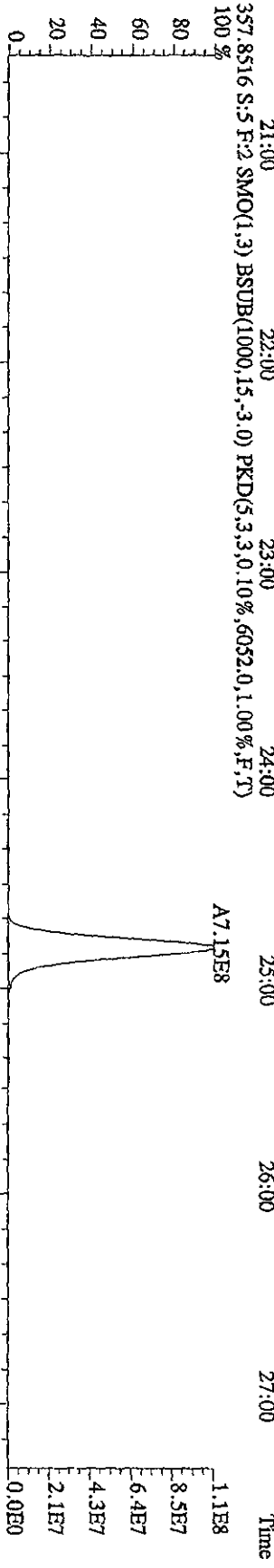
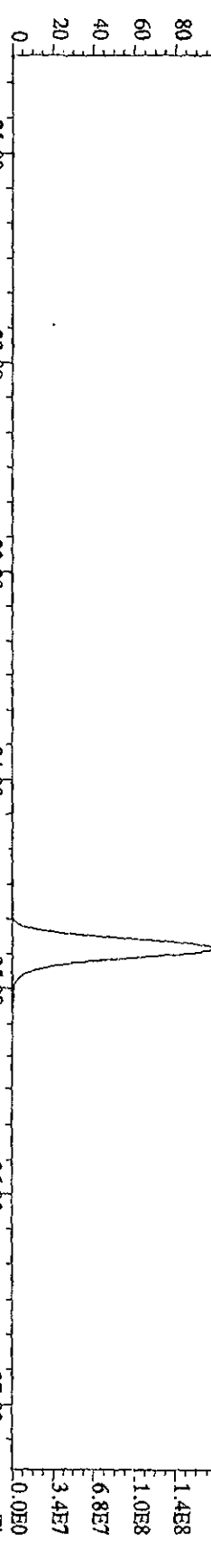




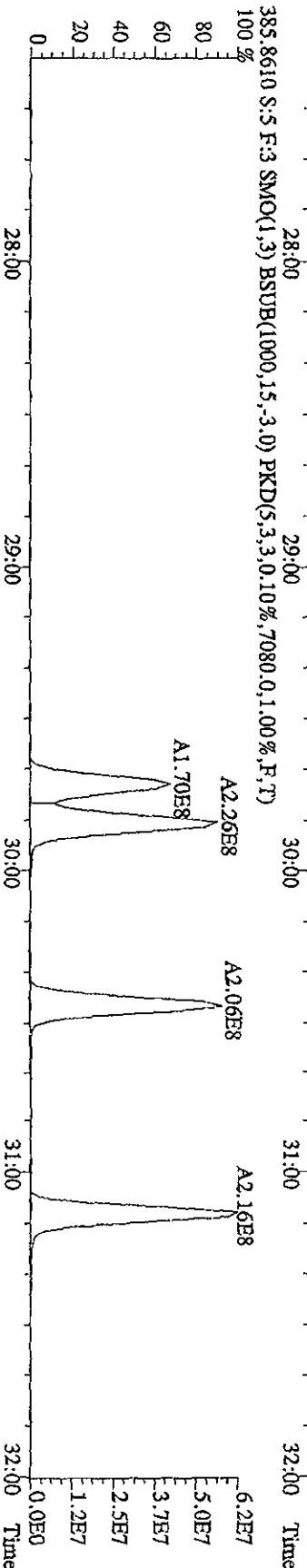
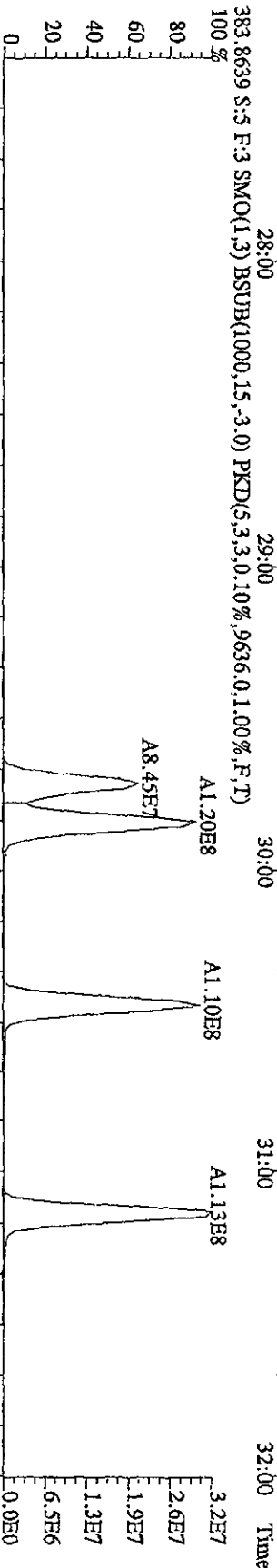
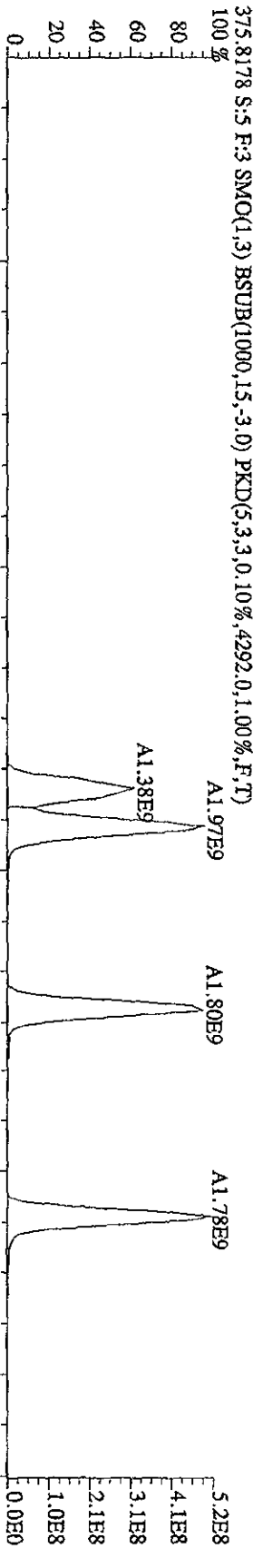
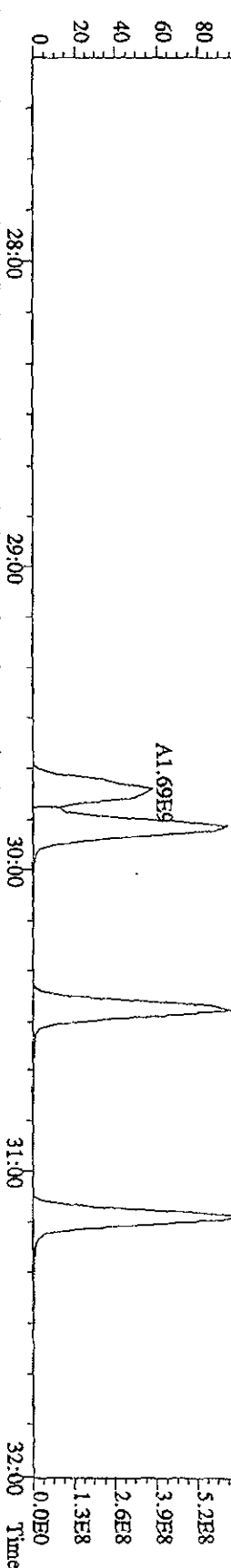
File:14SE101D5 #1-422 Acq:14-SEP-2010 13:28:23 GC EI+ Voltage SIR 70SE  
 Sample#5 Text:ST0914C :CSS 10DXN339 Exp:DI0XNRES  
 339.8597 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11548,0.1,00%,F,T)  
 100% A2.19E9



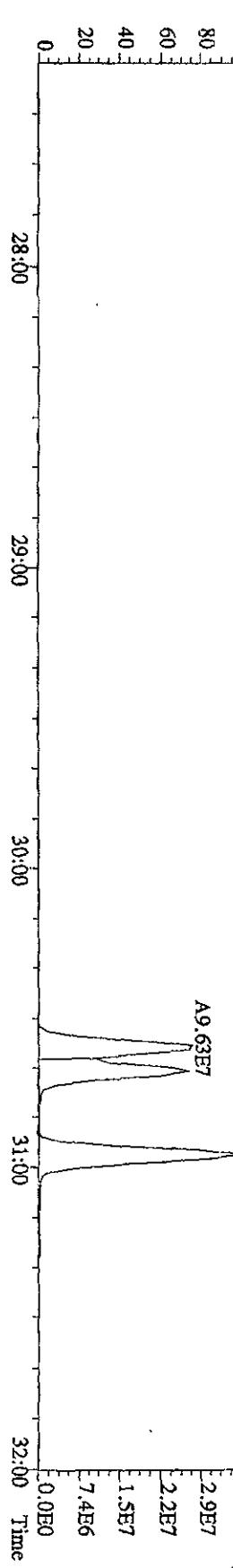
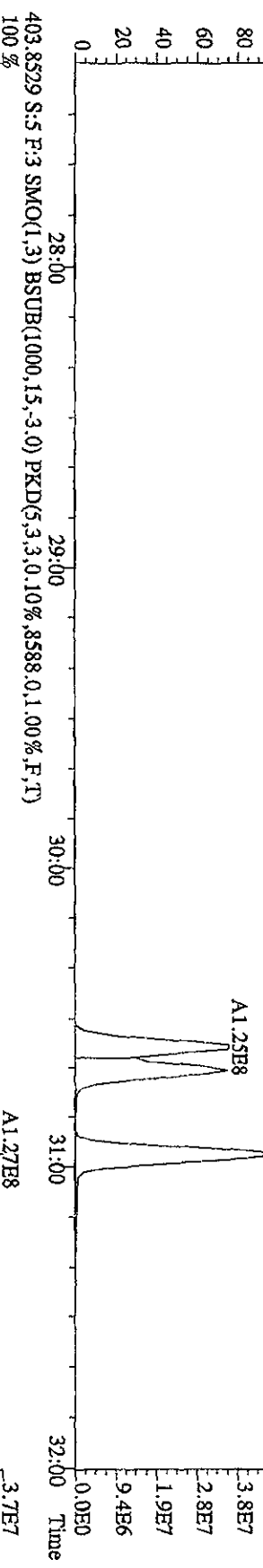
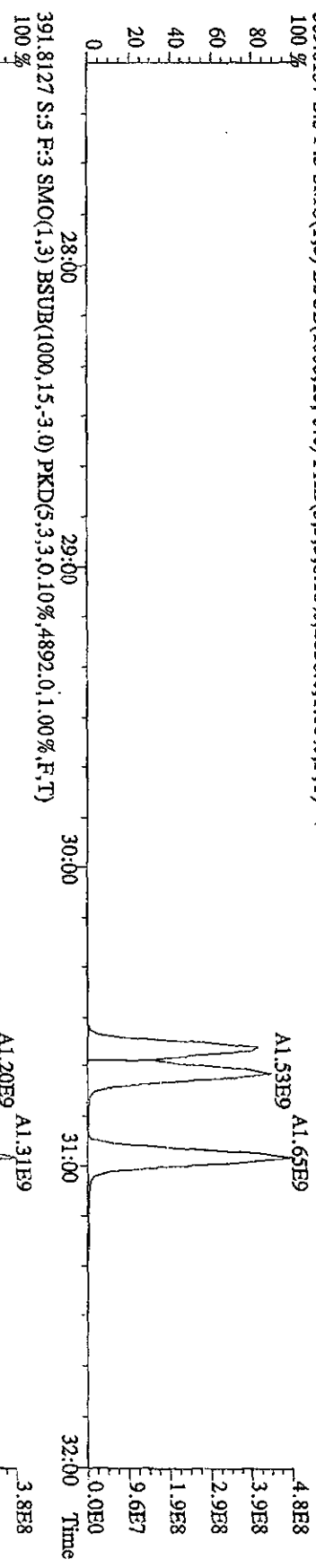
File:14SEI01D5 #1-422 Acq:14-SEP-2010 13:28:23 GC EI+ Voltage SFR 70SE  
 Sample#5 Text:ST0914C :CS5 10DXN339 Exp:DIOXINRES  
 355.8546 S.:S.F.:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6016,0,1,00%,F,T)



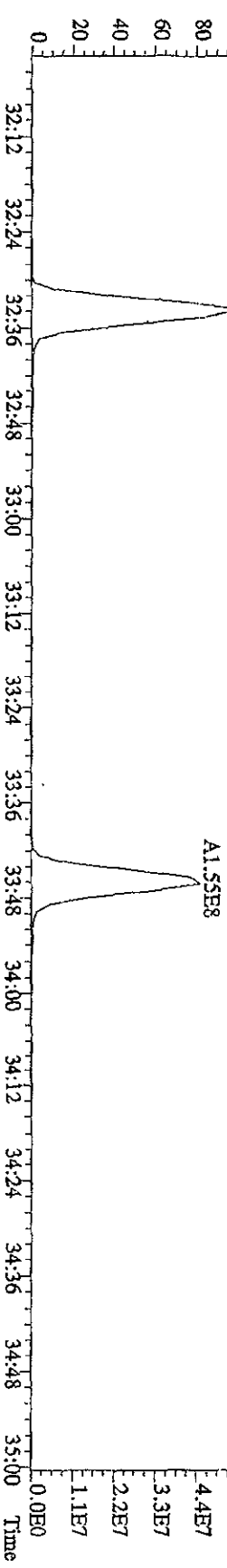
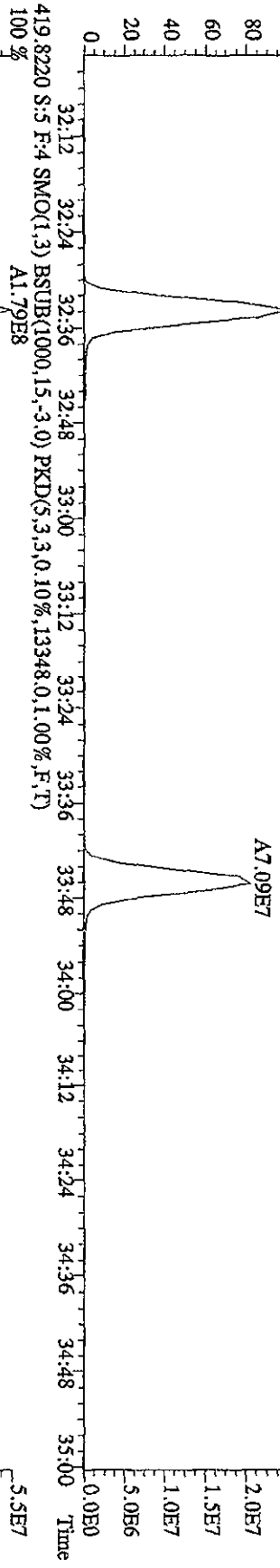
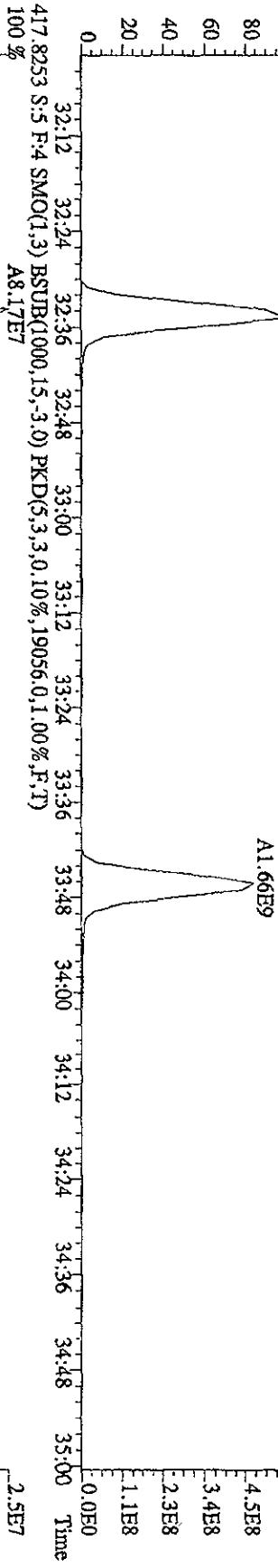
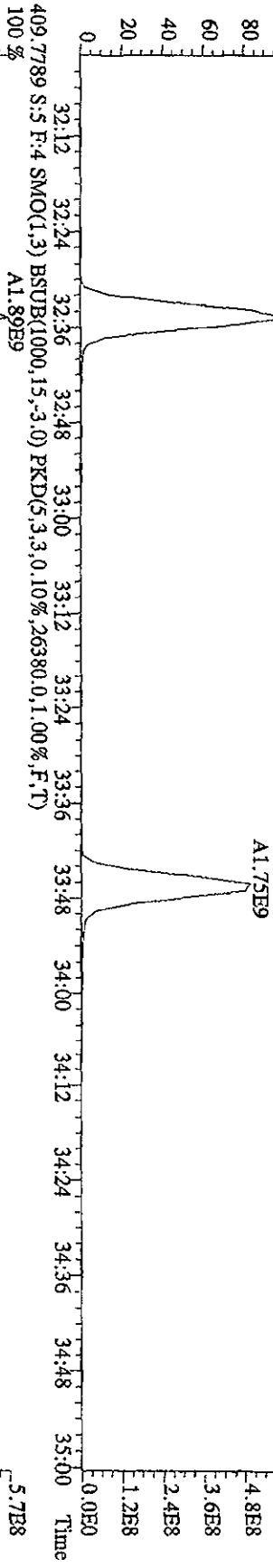
File:14SE101D5 #1-301 Acq:14-SEP-2010 13:28:23 GC EI + Voltage SIR 70SE  
 Sample#5 Text:5T0914C :CS5 10DXN339 Exp:DIOXINRES  
 373.8208 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4944,0,1,00%,F,T)



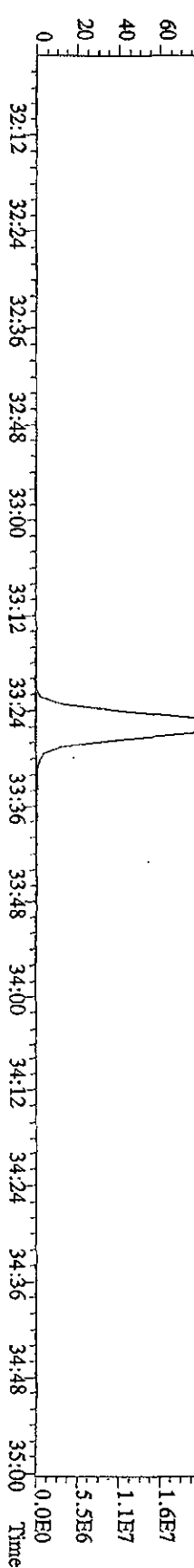
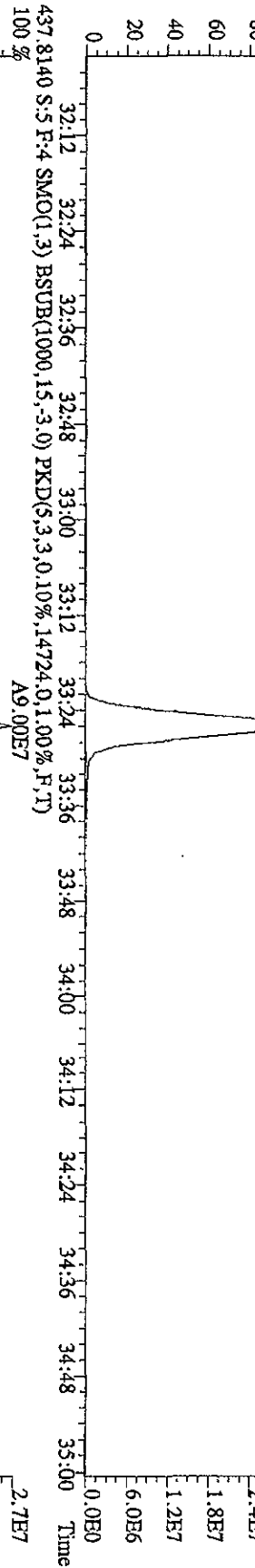
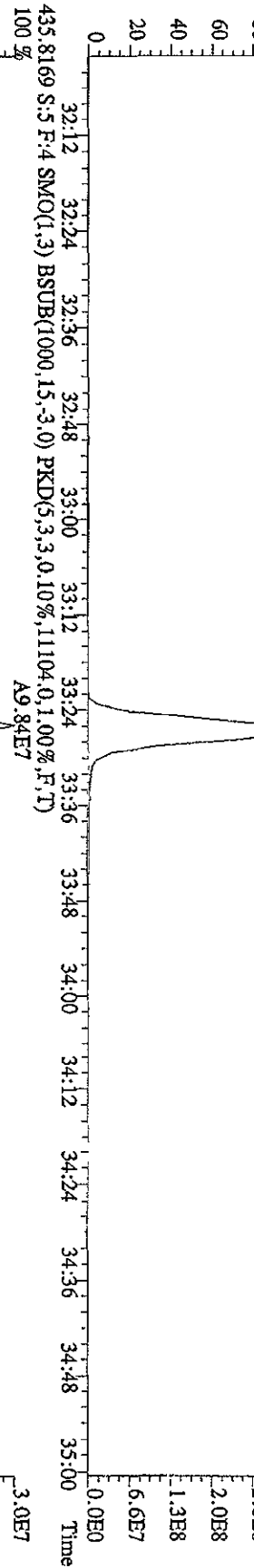
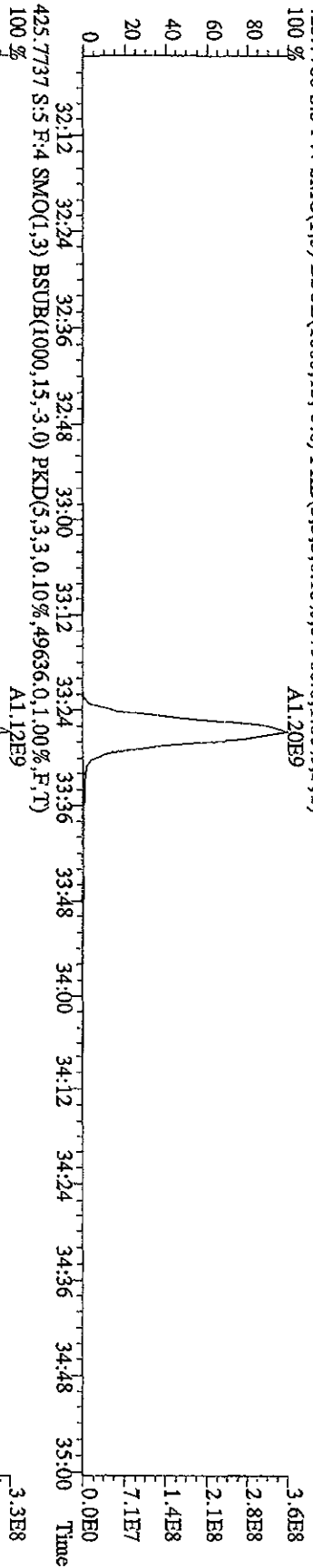
File: 14SEI01D5 #1-301 Acq: 14-SEP-2010 13:28:23 GC EI+ Voltage SIR 70SE  
 Sample#5 Text: ST0914C :CS5 10DXN339 Exp: DIOXINRES  
 389.8157 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2856,0.1,00%,F,T)  
 100%



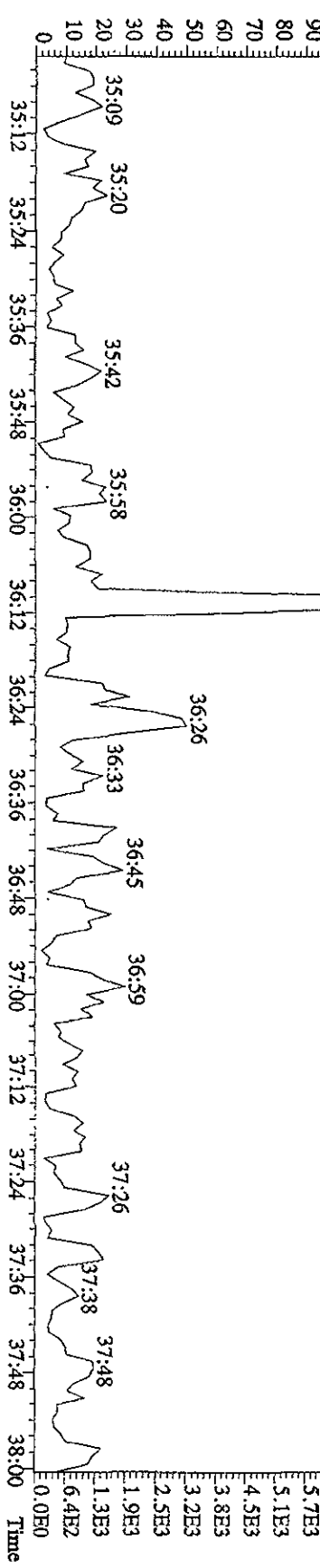
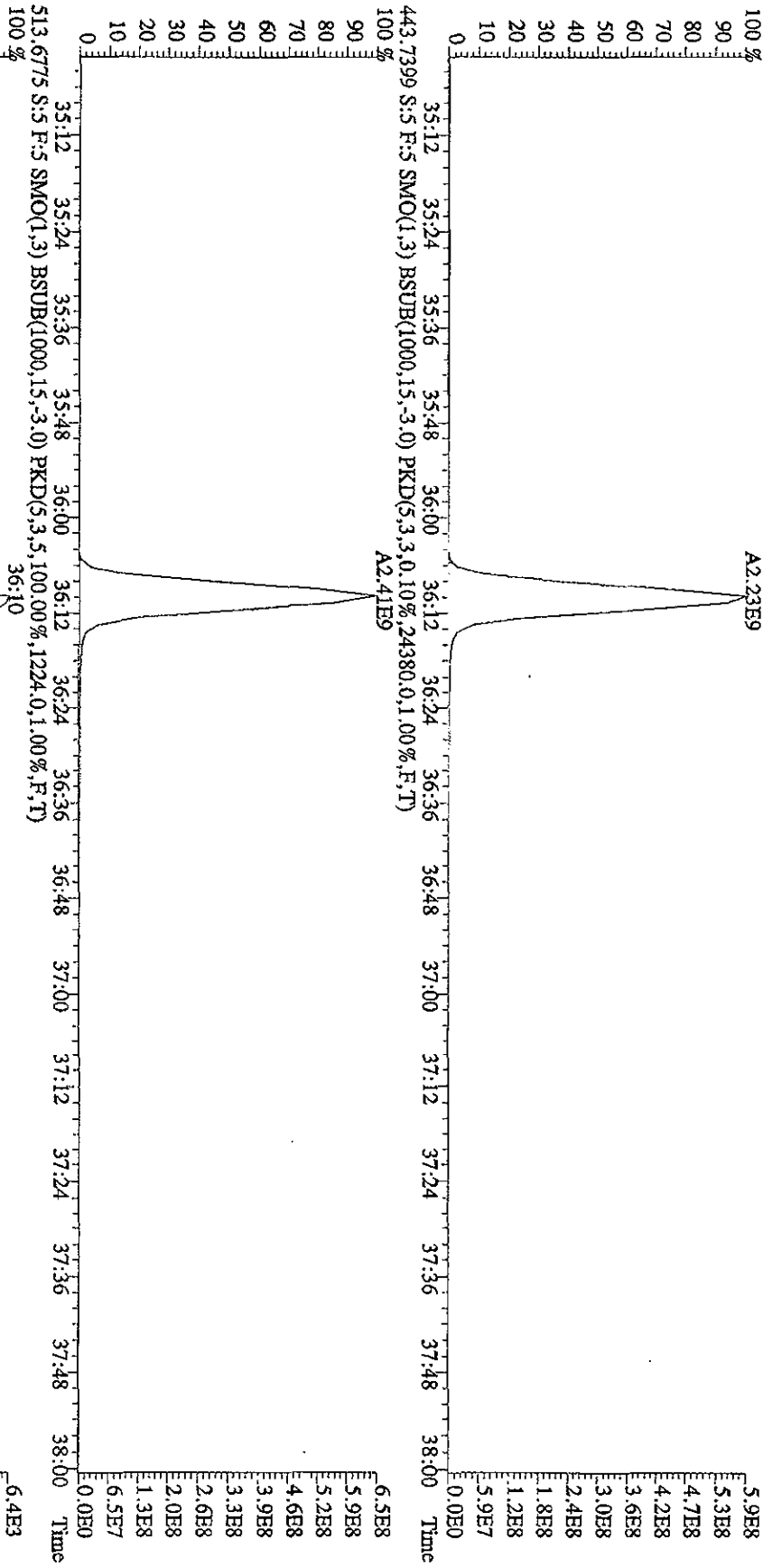
File: 14SE101D5 #1-203 Acq: 14-SEP-2010 13:28:23 GC EI+ Voltage: 70SE  
 Sample#5 Text: ST0914C ; CSS 10DXN339 Exp: DIOXINRES  
 407.7818 S:5 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,75656,0,1,00%,F,T)  
 100% A1.98E9



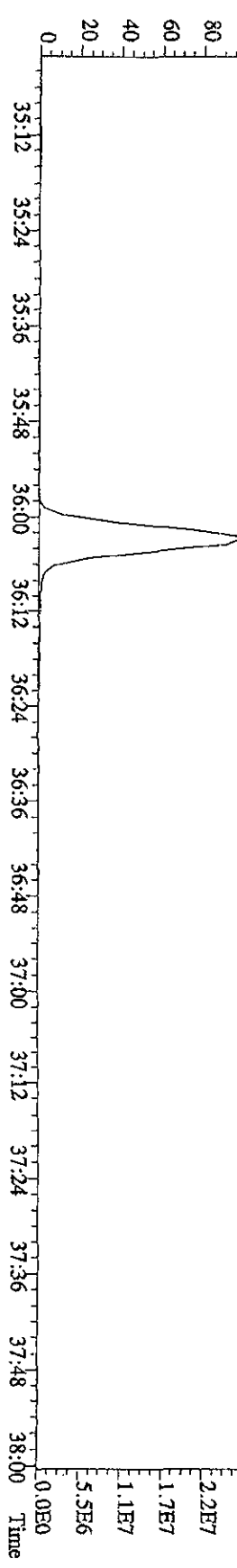
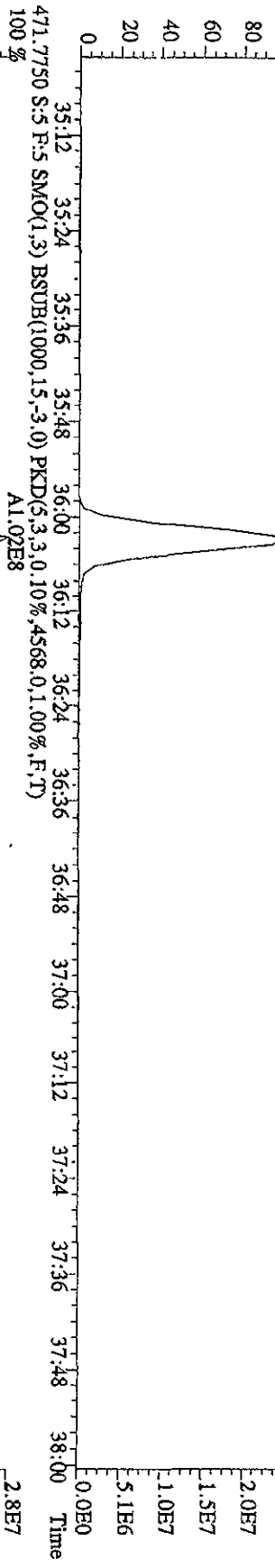
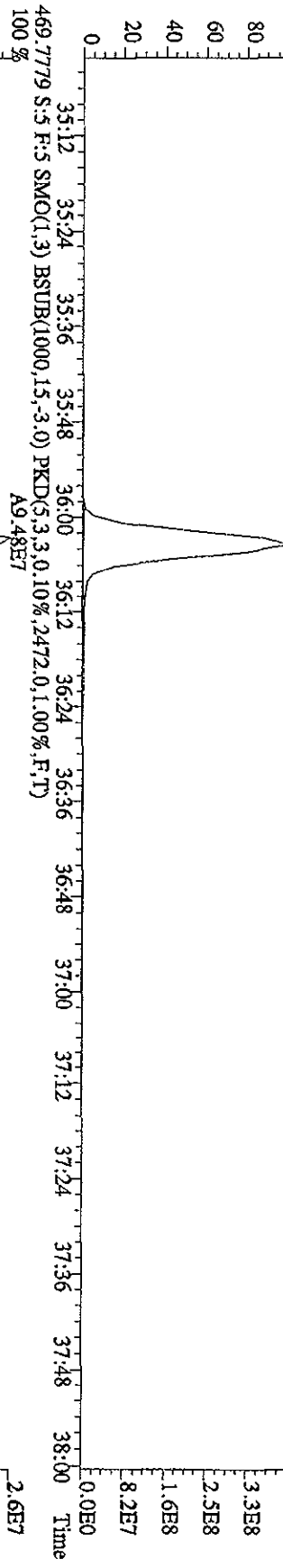
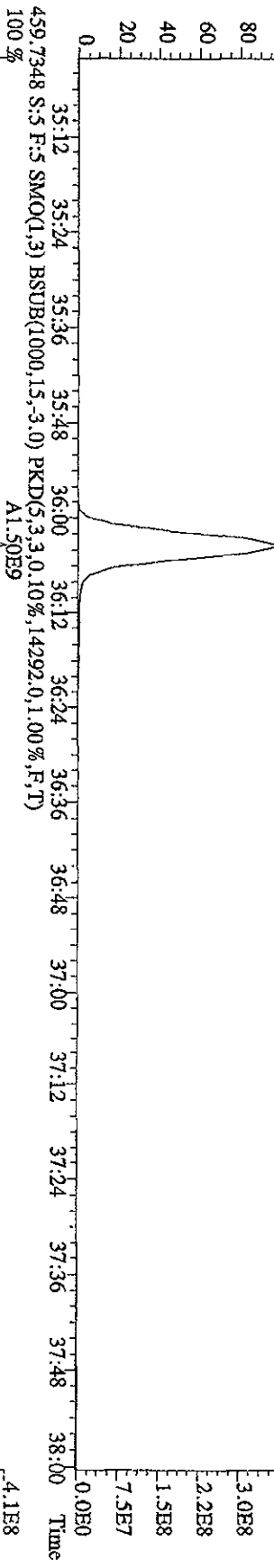
File:14SE101D5 #1-203 Acq:14-SEP-2010 13:28:23 GC EI+ Voltage SIR 70SE  
 Sample#5 Text:ST0914C :CSS 10DXN339 Exp:DIOXINES  
 423.7766 S:S:F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,37960,0,1,00%,F,T)  
 100% A1.20E9



File: 14SEI01D5 #1-196 Acq: 14-SEP-2010 13:28:23 GC: EI+ Voltage: SIR 70SE  
 Sample#5 Text: ST0914C :CS5 10DXN339 Exp: DIOXINRES  
 441.7428 S:5 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,43356,0.1,00%,F,T)  
 100% A2.23E9



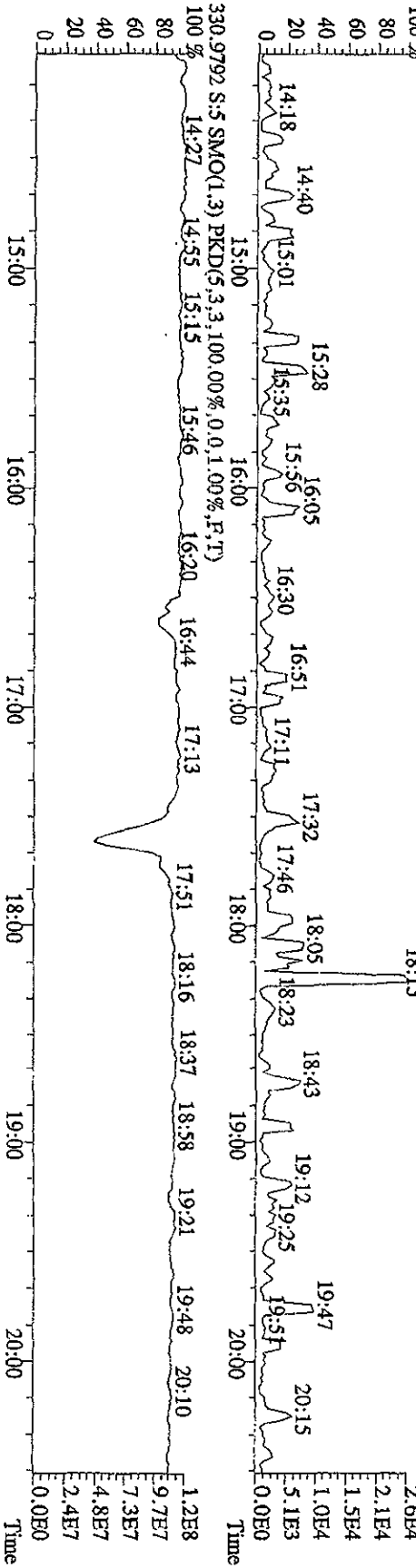
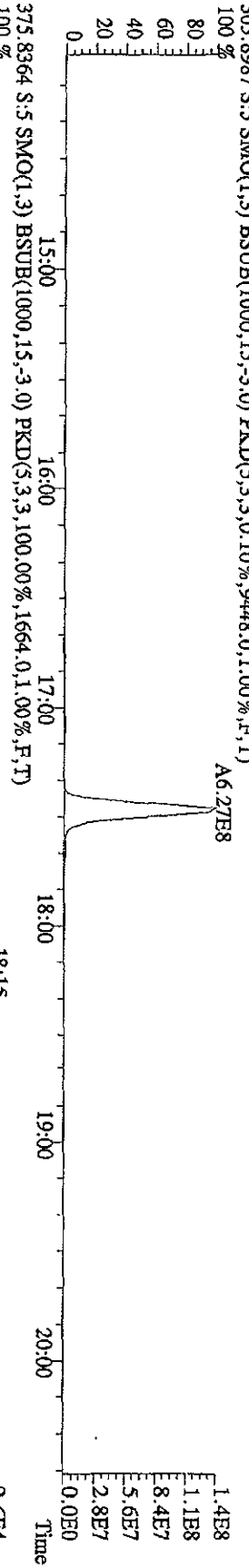
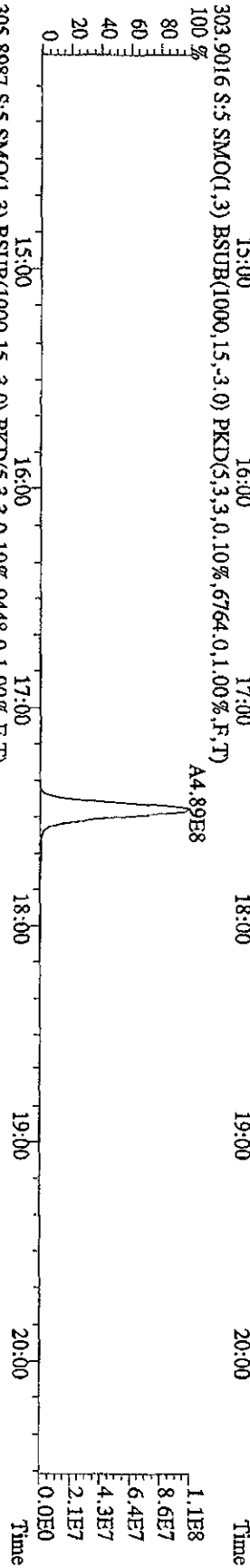
File: 14SE101D5 #1-196 Acq: 14-SEP-2010 13:28:23 GC EI+ Voltage SIR 70SE  
 Sample#5 Text: ST0914C :CSS 10DXN339 Exp: DIOXINRES  
 459.7348 S:5 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12636.0,1.00%,F,T)  
 A1.38E9



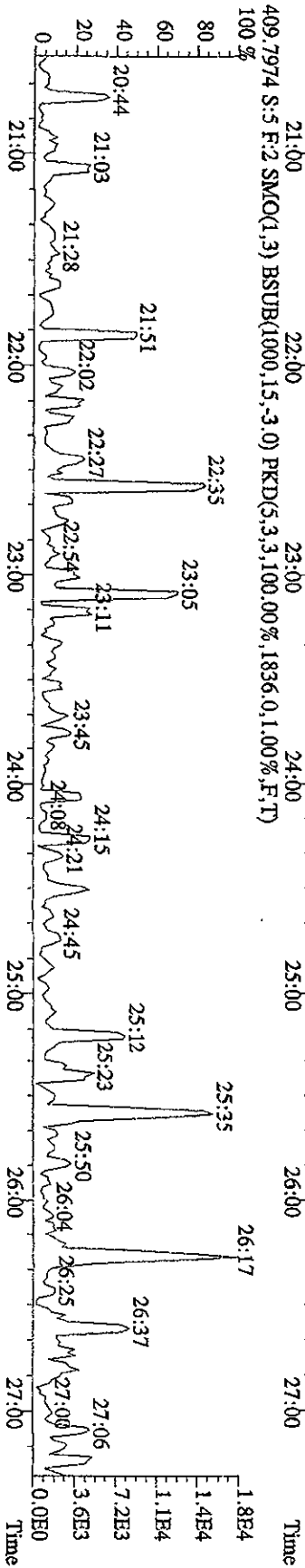
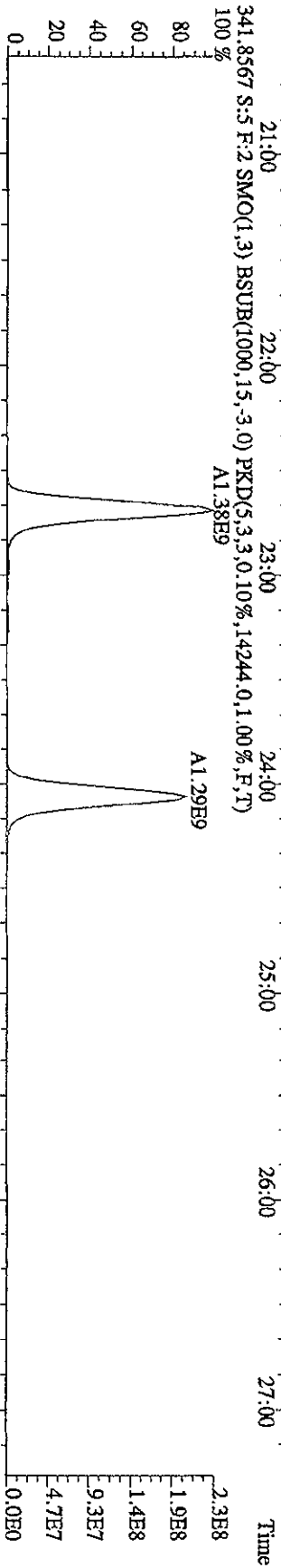
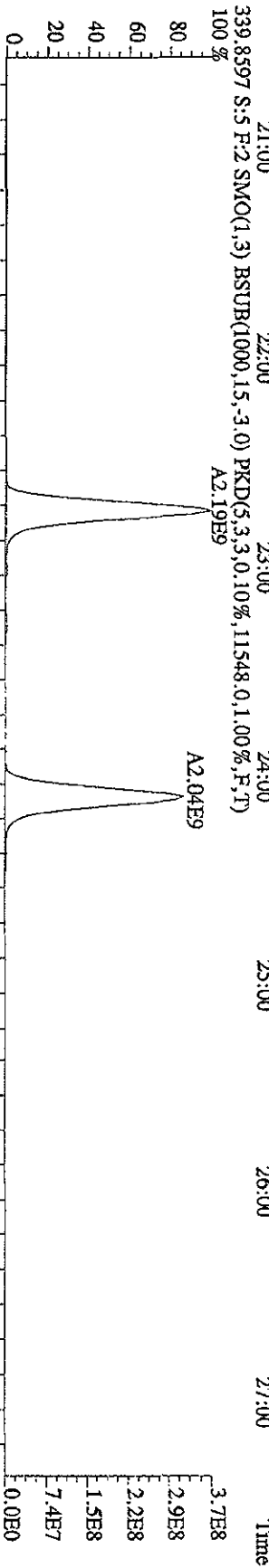
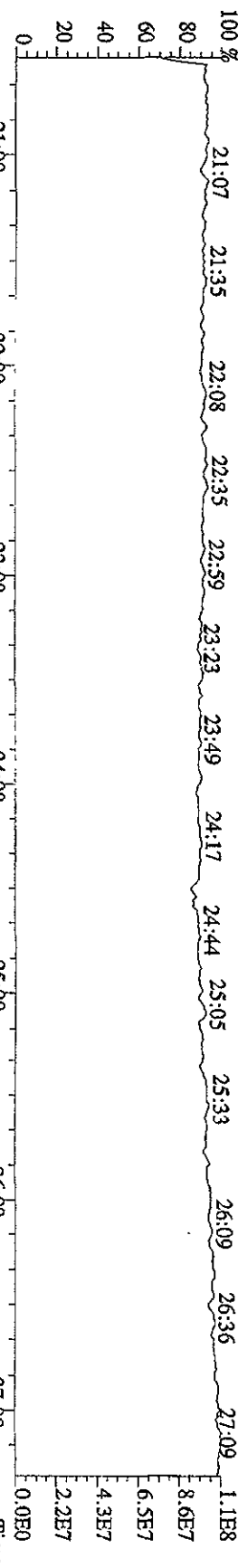


File: 14SE101D5 #1-382 Acq: 14-SEP-2010 13:28:23 GC EI+ Voltage SIR 70SE

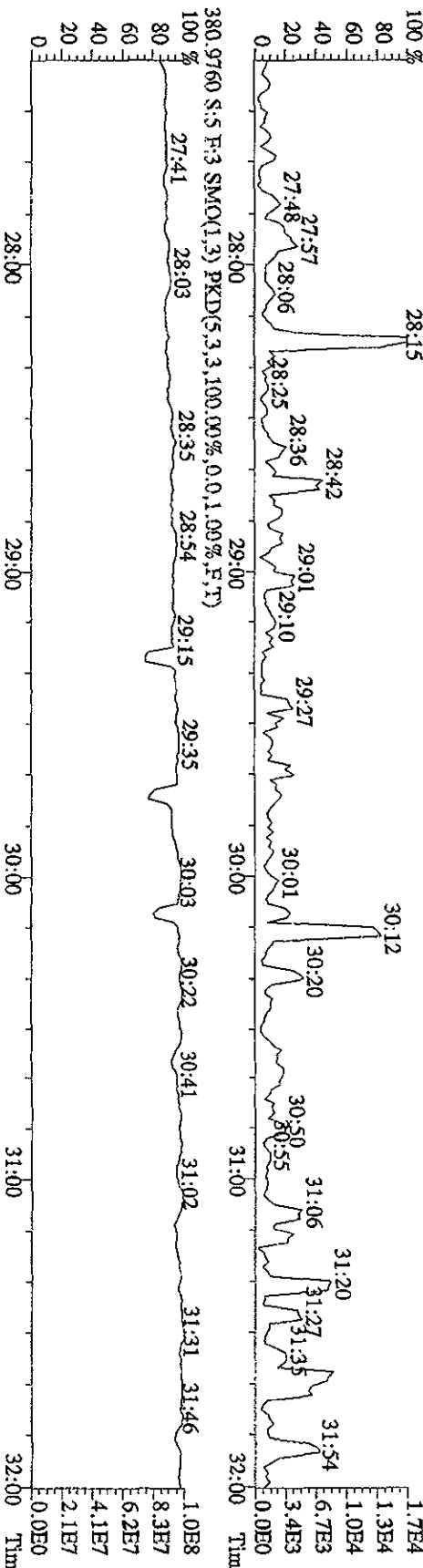
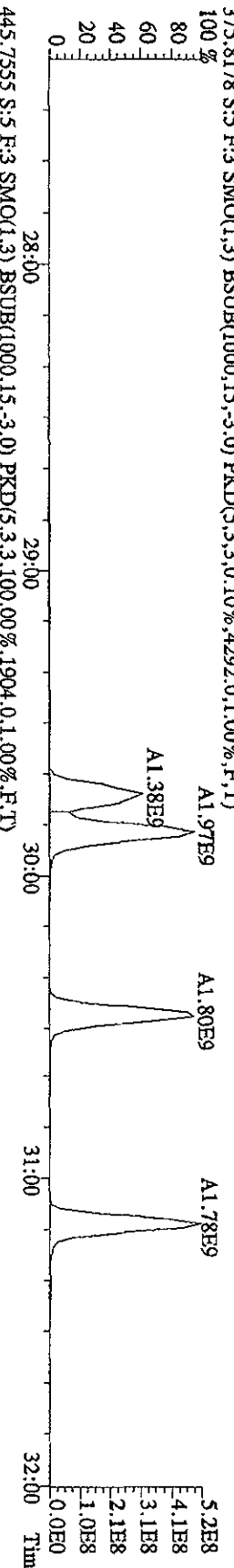
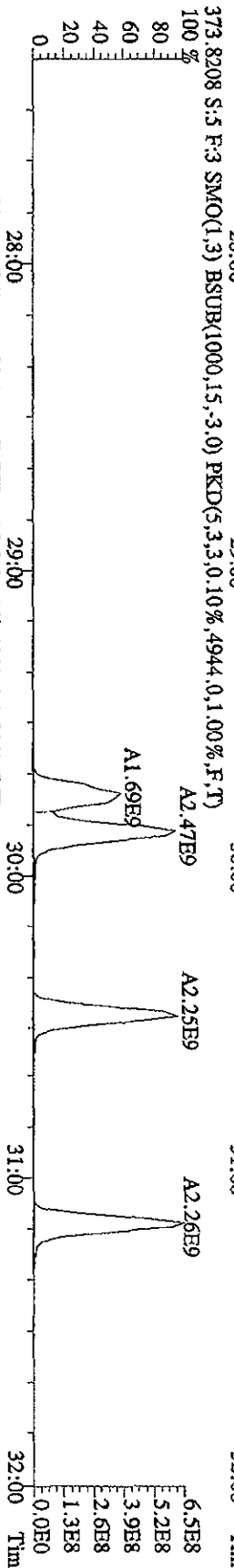
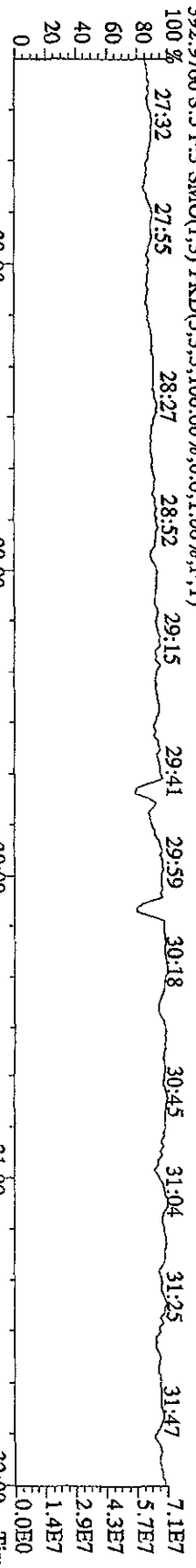
Sample#5 Text: ST0914C : CS5 10DXN339 Exp: DIOXINRES



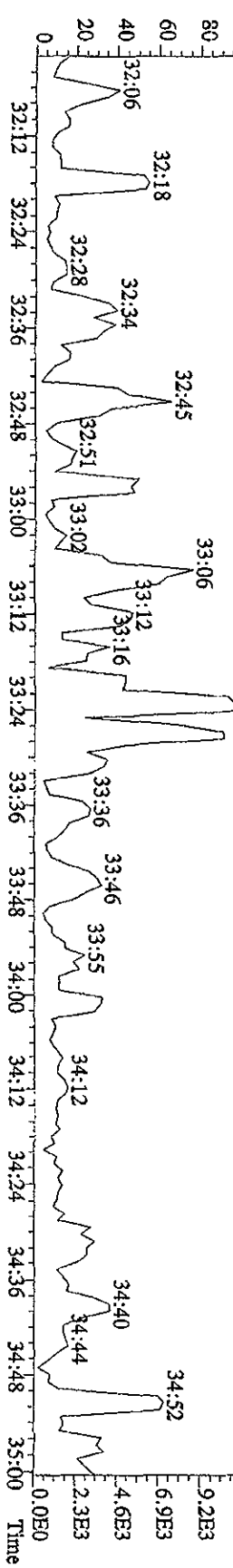
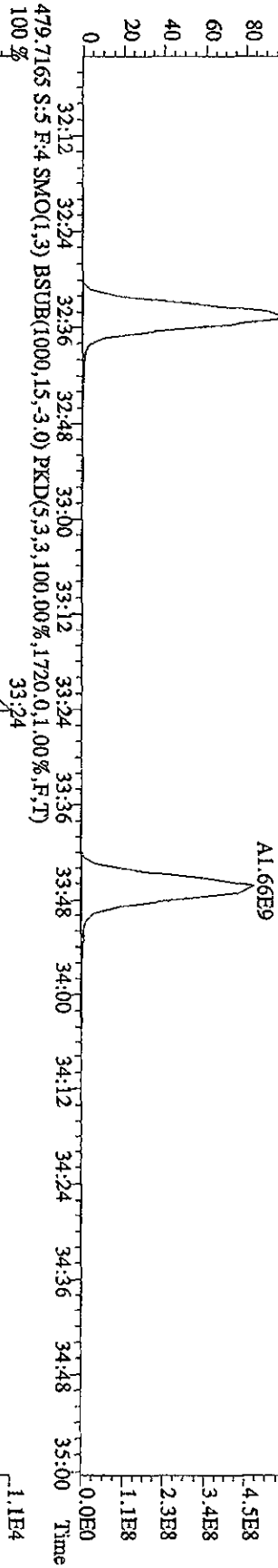
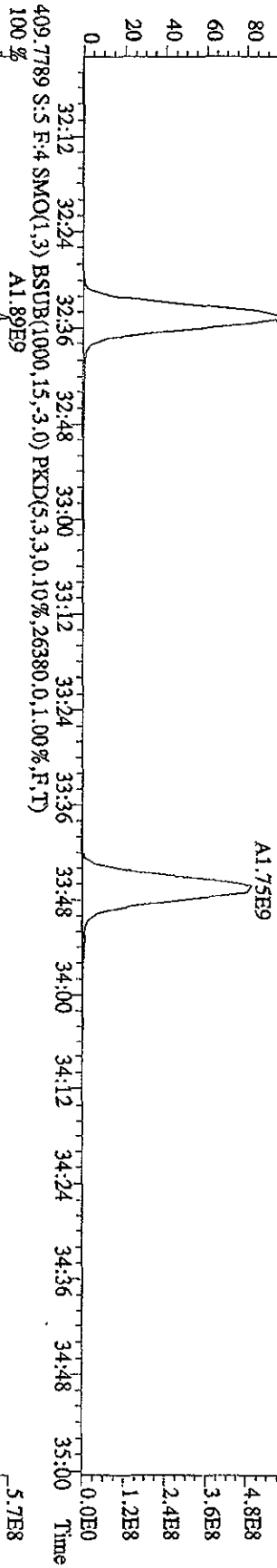
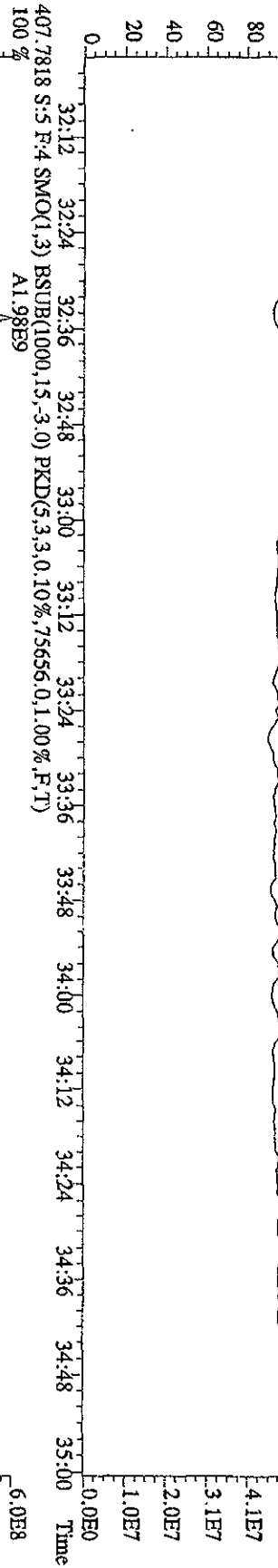
File: 14SE101D5 #1-422 Acq: 14-SEP-2010 13:28:23 GC EI+ Voltage: 517V 70SE  
 Sample#5 Text: ST0914C :CSS 10DXN339 Exp: DIOXINRES  
 342.9792 S.S.F:2 SMO(1.3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



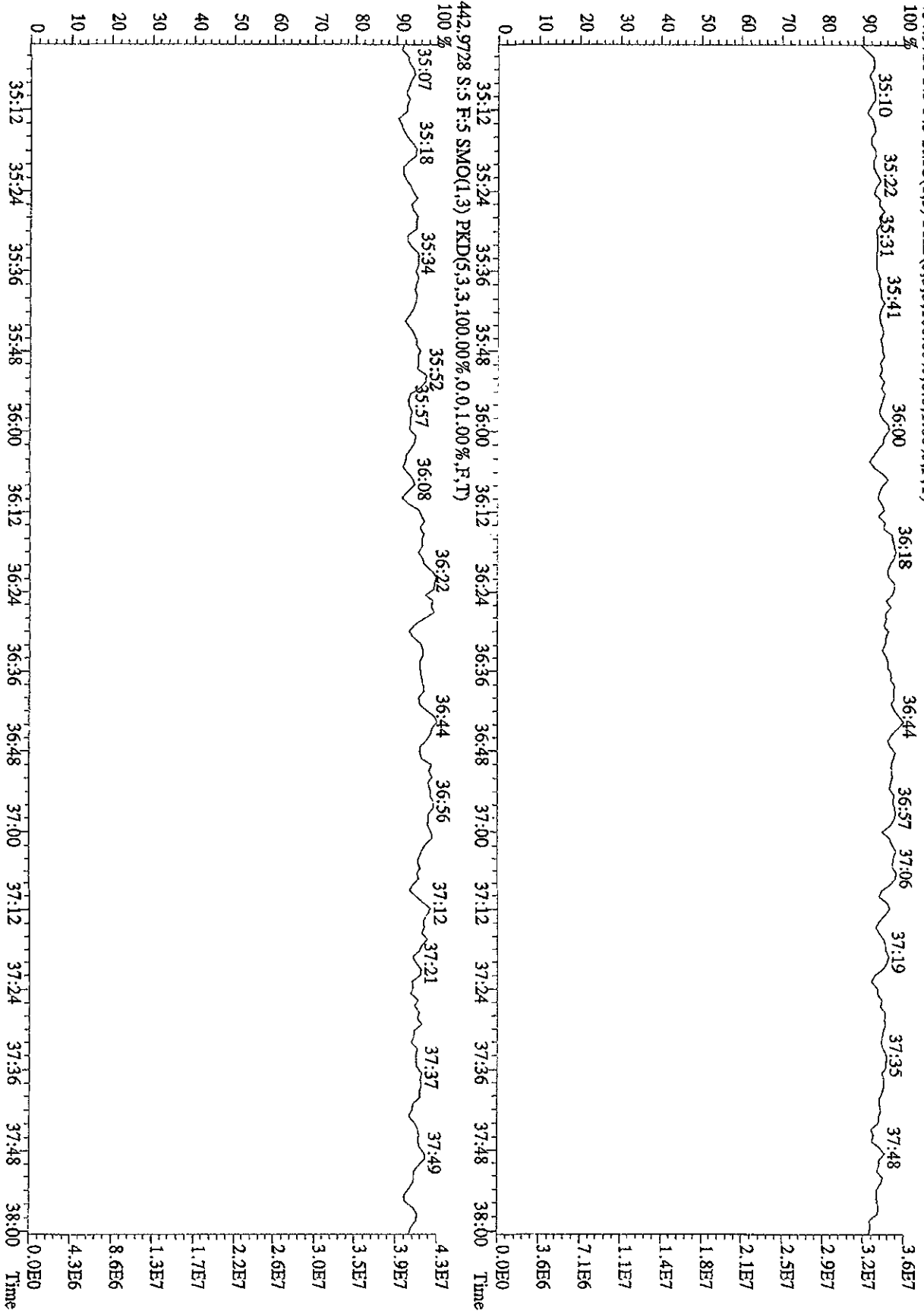
File: 14SEP101D5 #1-301 Acq: 14-SEP-2010 13:28:23 GC EI+ Voltage SHR 70SE  
 Sample#5 Text: ST0914C : CSS 10DXN339 Exp: DIOXINRES



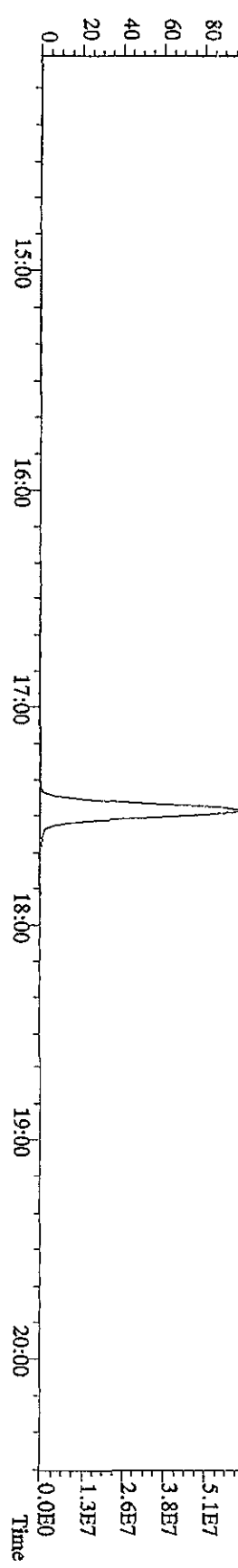
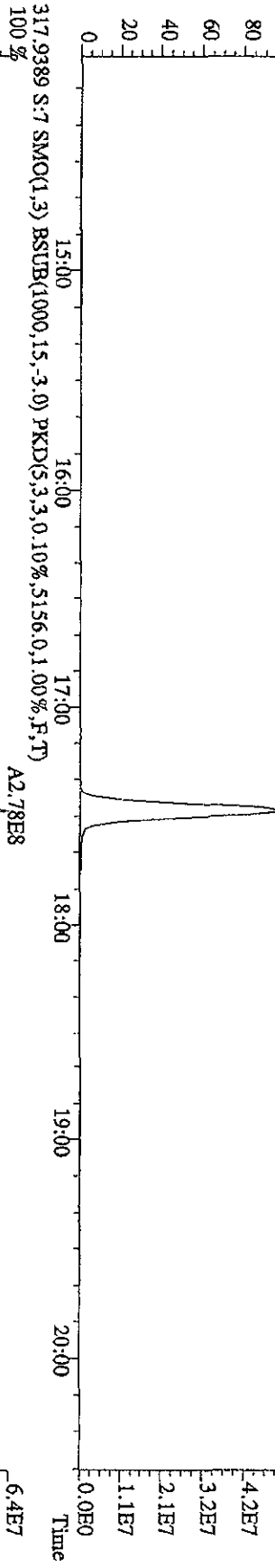
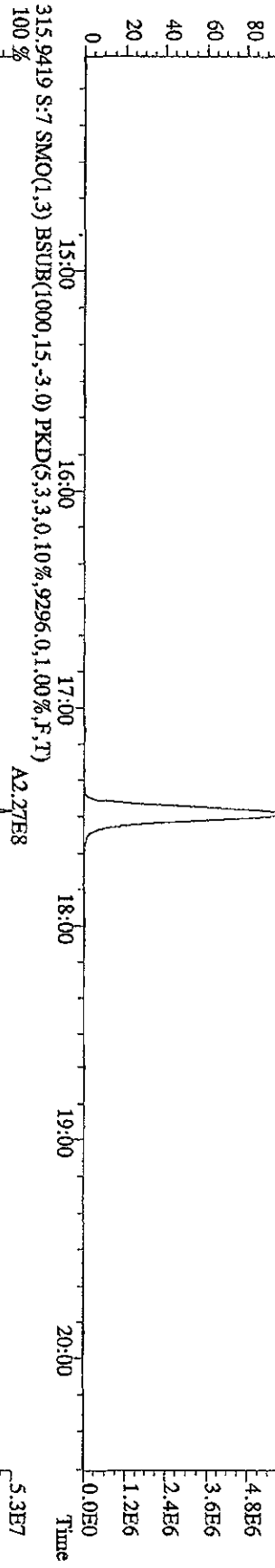
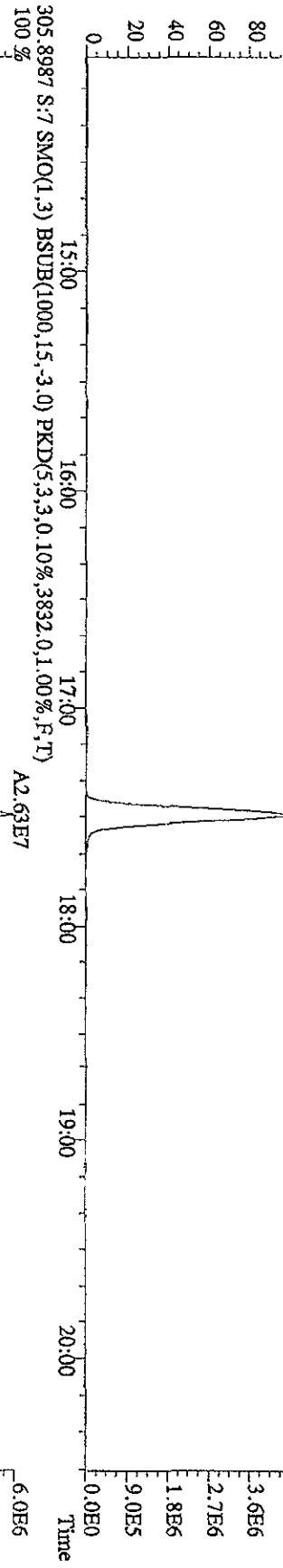
File: 14SE101D5 #1-203 Acq: 14-SEP-2010 13:28:23 GC: EI + Voltage SIR 70SE  
 Sample#5 Text: ST0914C :CSS 10DXN339 Exp: DIOXINRES  
 430.9728 S:5 F:4 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)  
 100% 32:14 32:29 32:44 32:59 33:17 33:33 33:52 34:04 34:28 34:46



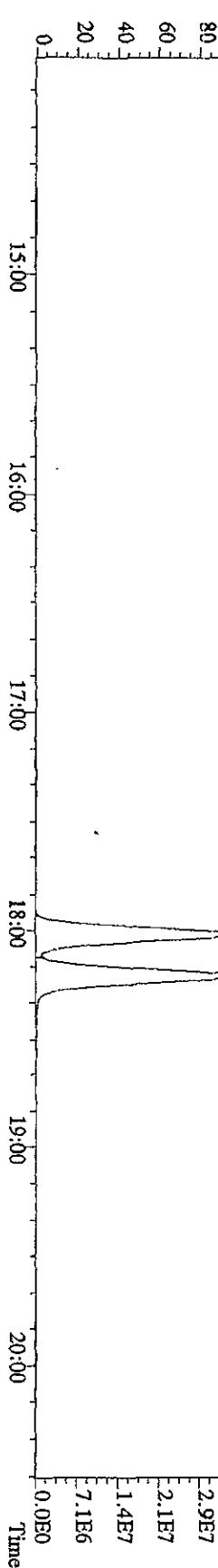
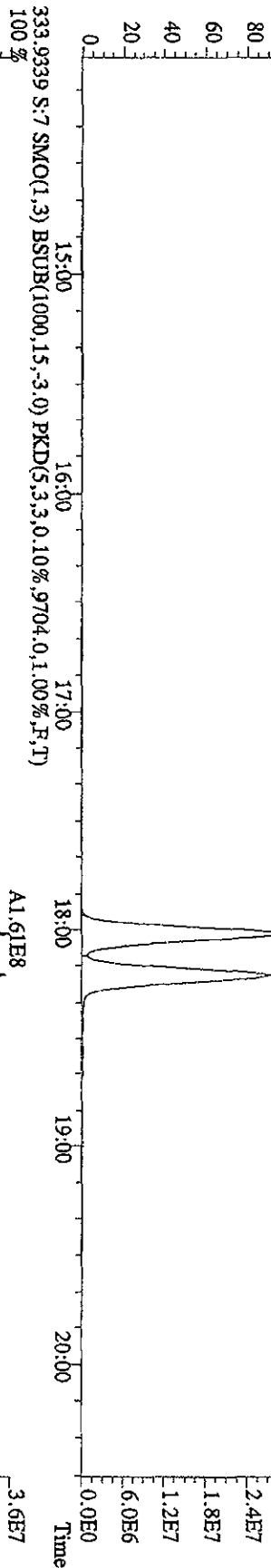
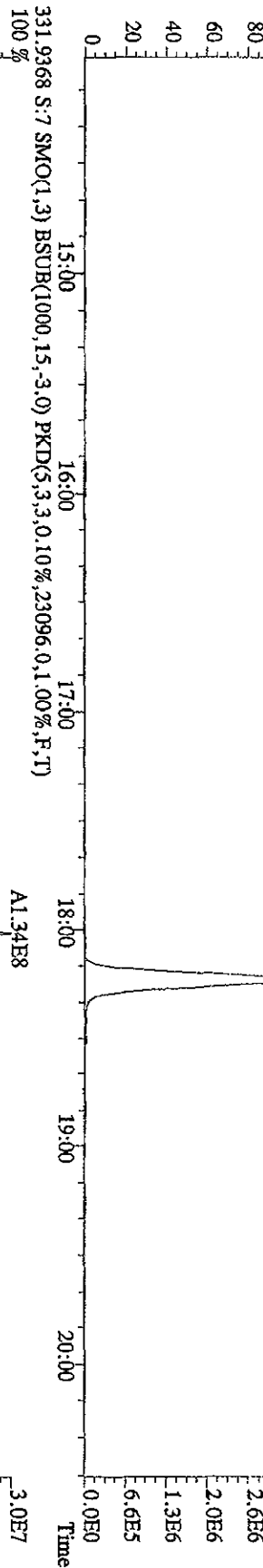
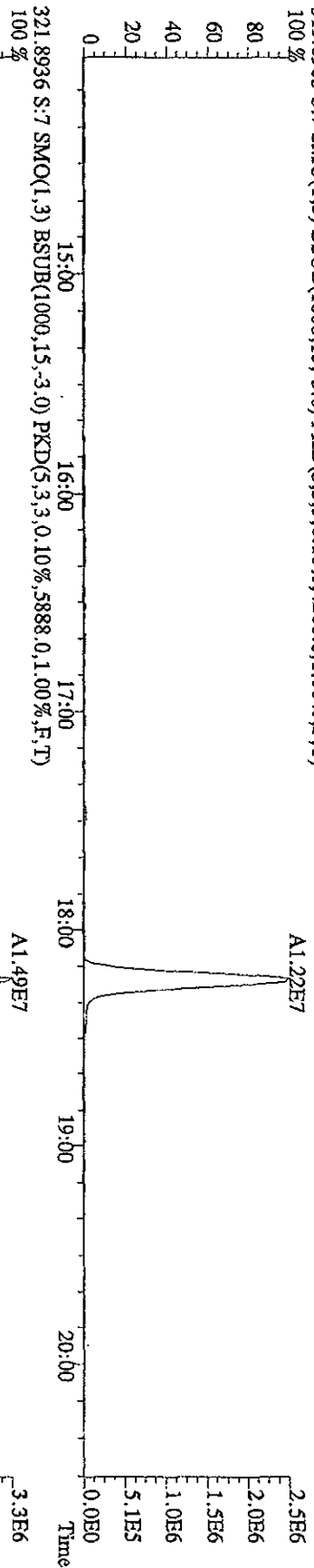
File:14SE101D5 #1-196 Acq:14-SEP-2010 13:28:23 GC EI+ Voltage SIR 70SE  
 Sample#5 Text:ST0914C :CSS 10DXN339 Exp:DIOXINES  
 454.9728 S.S.F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



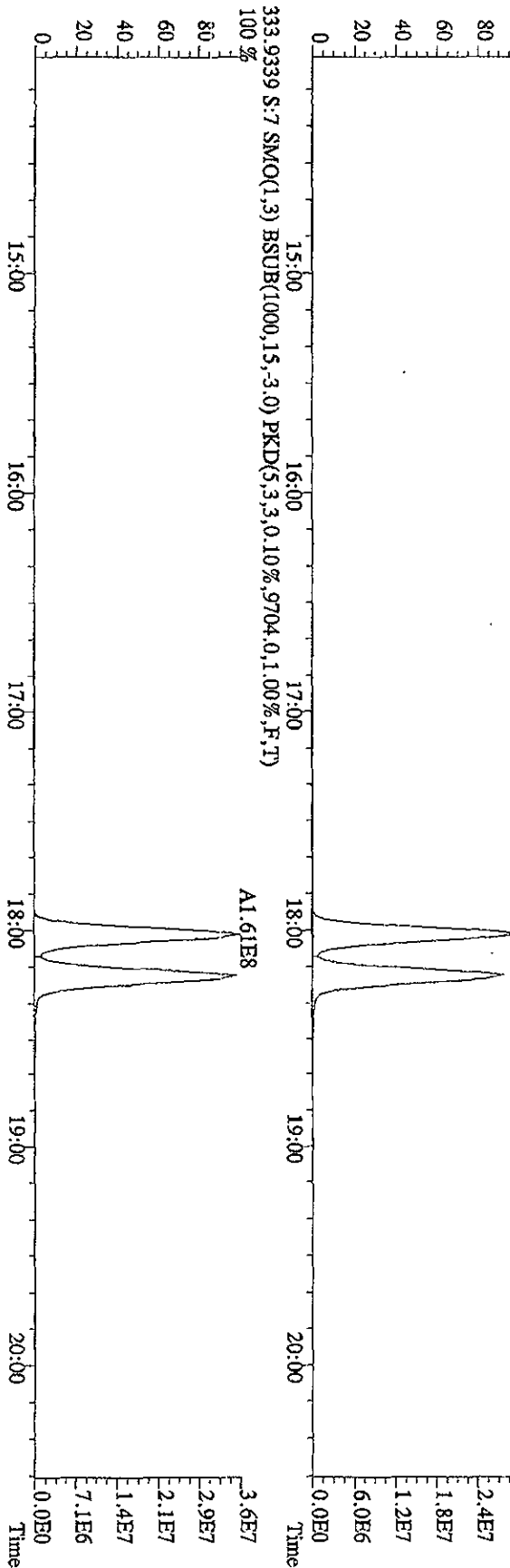
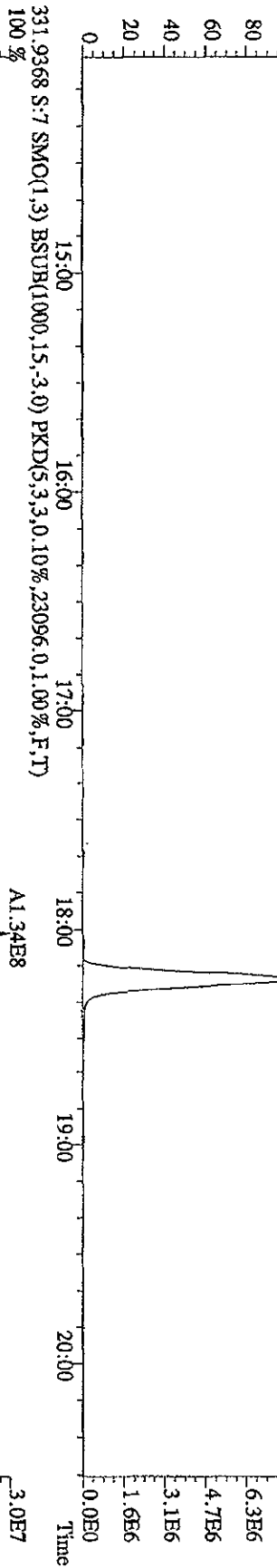
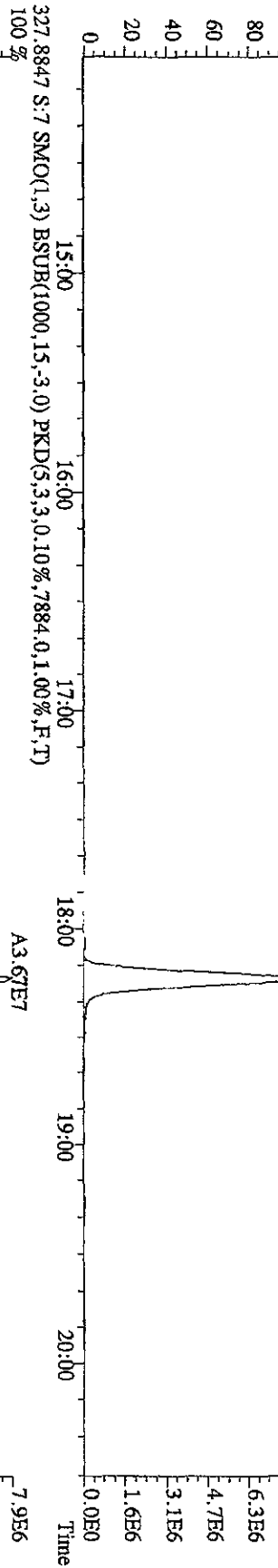
File: 14SE101D5 #1-382 Acq: 14-SEP-2010 14:54:17 GC EI+ Voltage SIR 70SE  
 Sample#7 Text: S10914E 2nd Source 10DXN340 Exp: DIOXINRES  
 303.9016 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3664,0,1,00%,F,T)  
 100%



File: 14SE101D5 #1-382 Acq: 14-SEP-2010 14:54:17 GC EI+ Voltage 38V 70SE  
 Sample#7 Text: ST0914E 2nd Source 10DXN340 Exp: DIOXINRES  
 319.8965 S: 7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4208,0,1,00%,F,T)

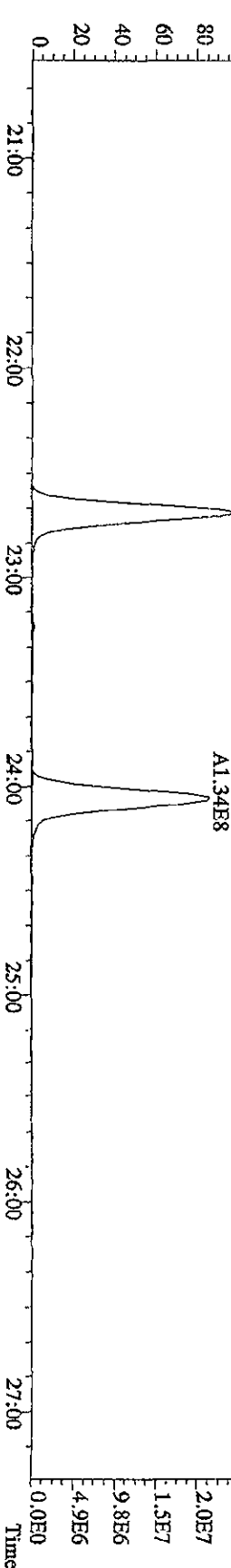
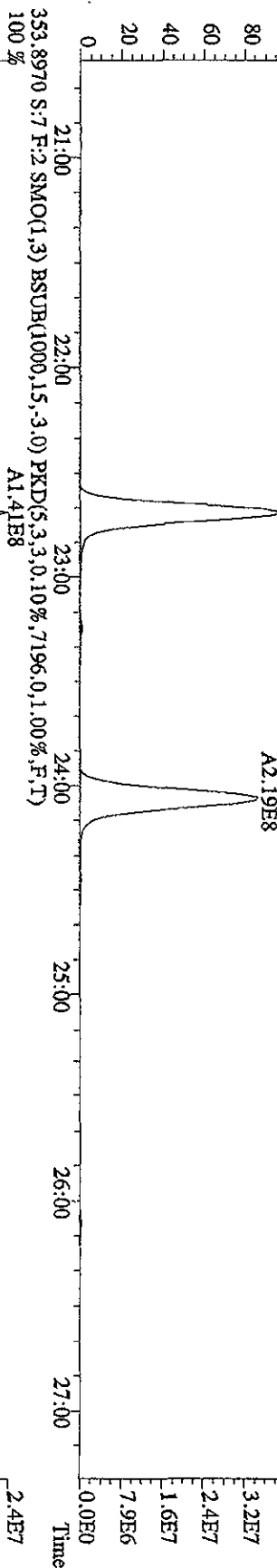
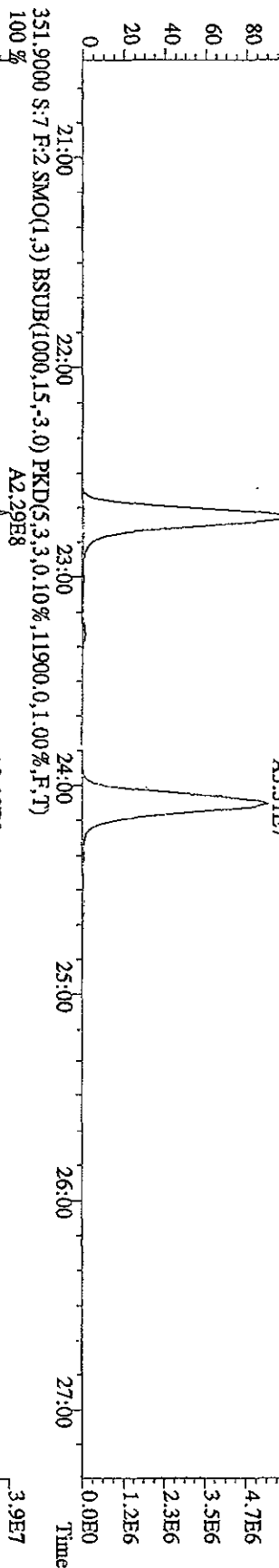
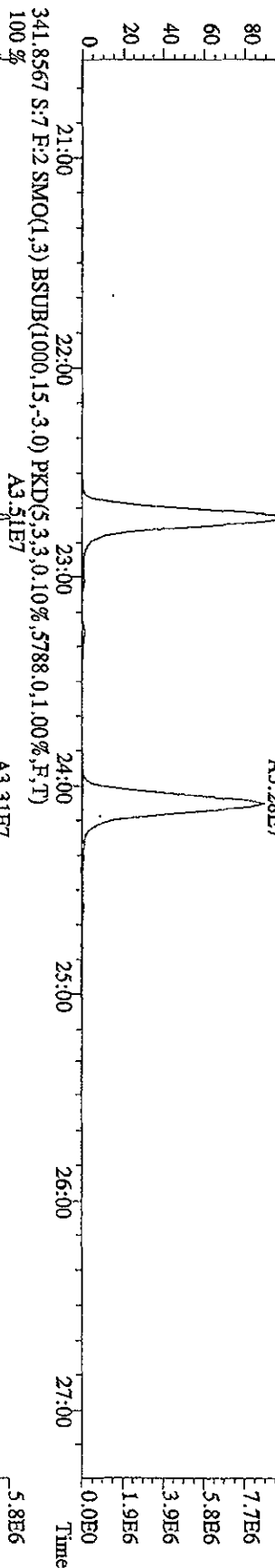


File: 14SEI01D5 #1-382 Acq: 14-SEP-2010 14:54:17 GC EI+ Voltage SIR 70SE  
 Sample#7 Text: ST0914E 2nd Source 10DXN340 Exp: DIOXINRES  
 327.8847 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7884,0,1,00%,F,T)  
 100%

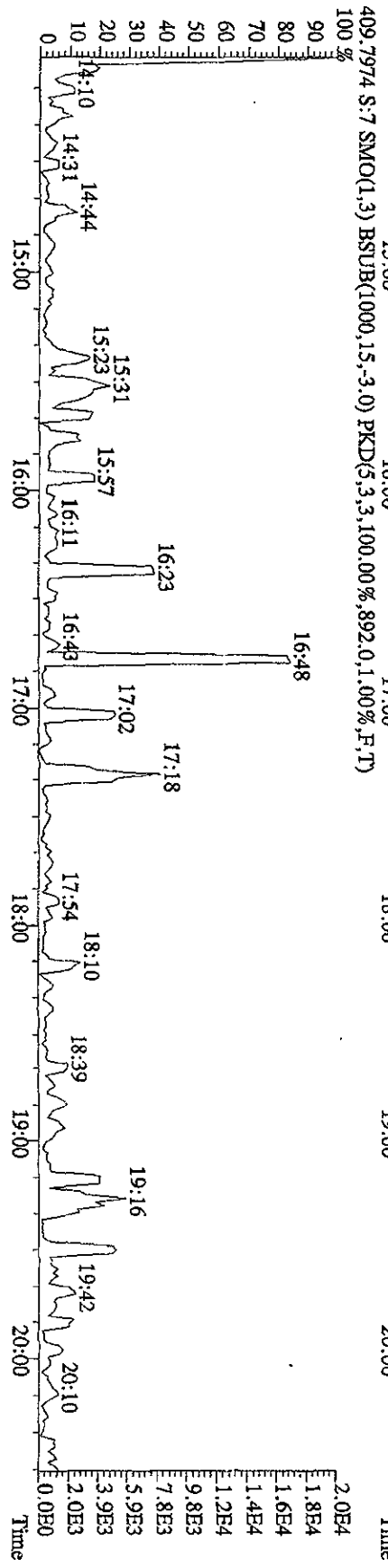
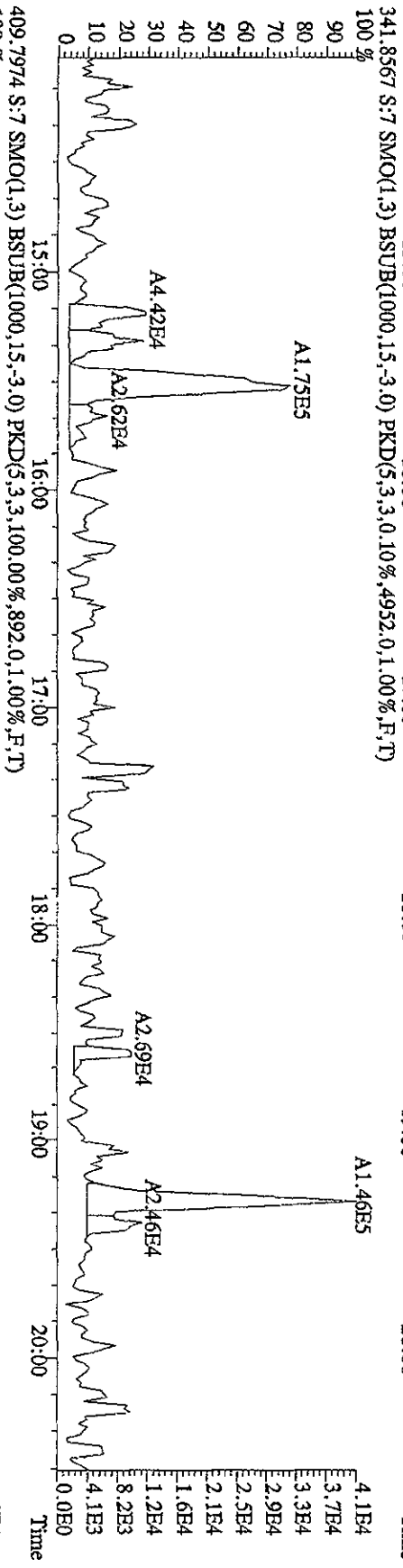
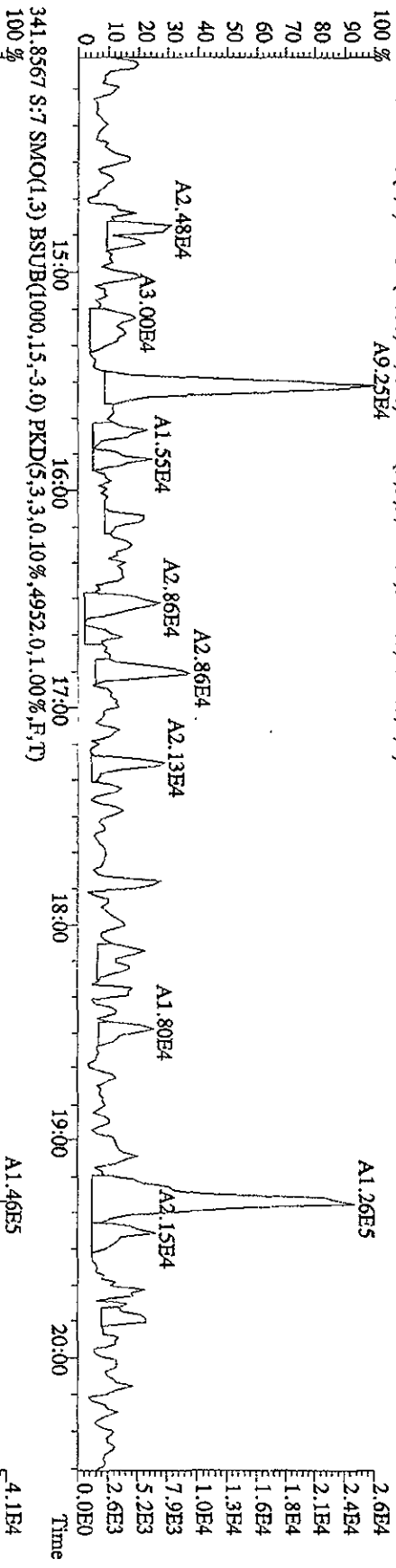




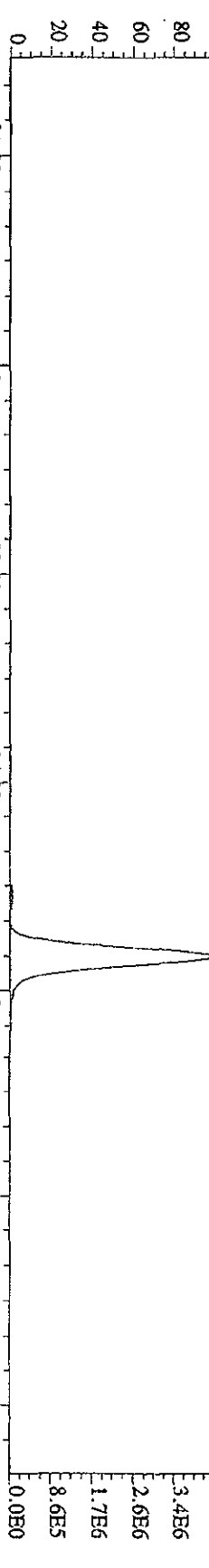
File: 14SE101D5 #1-423 Acq: 14-SEP-2010 14:54:17 GC EI+ Voltage SIR 70SE  
 Sample#7 Text: ST0914E 2nd Source 10DDXN340 Exp: DIOXINRES  
 339.8597 S: 7 F: 2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5912.0,1.00%,F,T)  
 100%



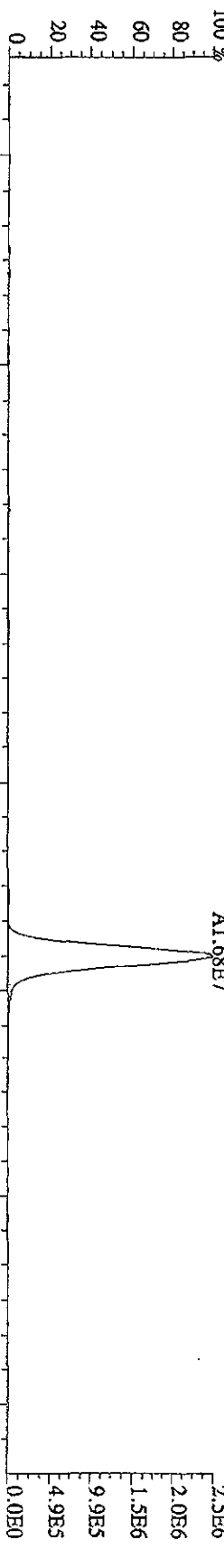
File: 14SEI01D5 #1-382 Acq: 14-SEP-2010 14:54:17 GC EI+ Voltage SIR 70SE  
 Sample#7 Text: ST0914E 2nd Source 10DXN340 Exp: DIOXINRES  
 339.8597 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3224,0,1,100%,F,T)  
 A9.25E4



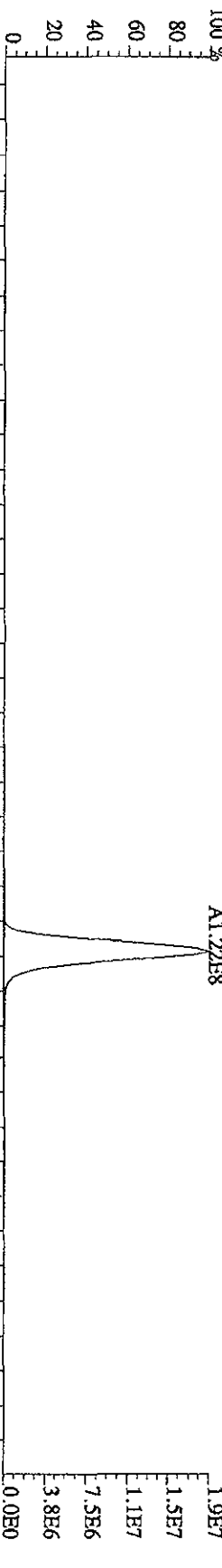
File: 14SE101D5 #1-423 Acq: 14-SEP-2010 14:54:17 GC EI+ Voltage SIR 70SE  
 Sample#7 Text: ST0914E 2nd Source 10DXN340 Exp: DIOXINRES  
 355.8546 S: 7 F: 2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5280,0,1.00%,F,T)  
 100%



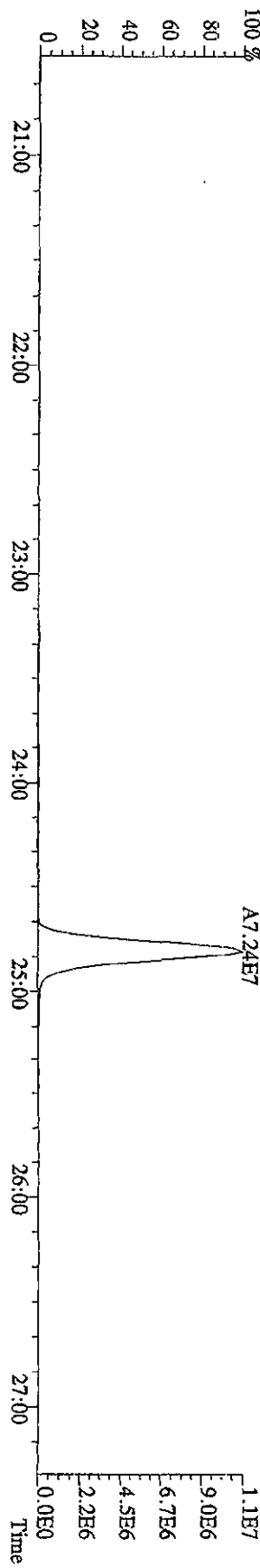
357.8516 S: 7 F: 2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3192,0,1.00%,F,T)  
 100%



367.8949 S: 7 F: 2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4392,0,1.00%,F,T)  
 100%



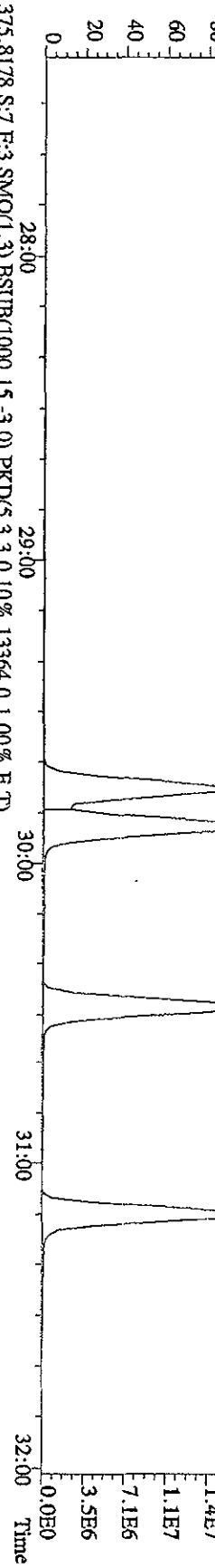
369.8919 S: 7 F: 2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2216,0,1.00%,F,T)  
 100%



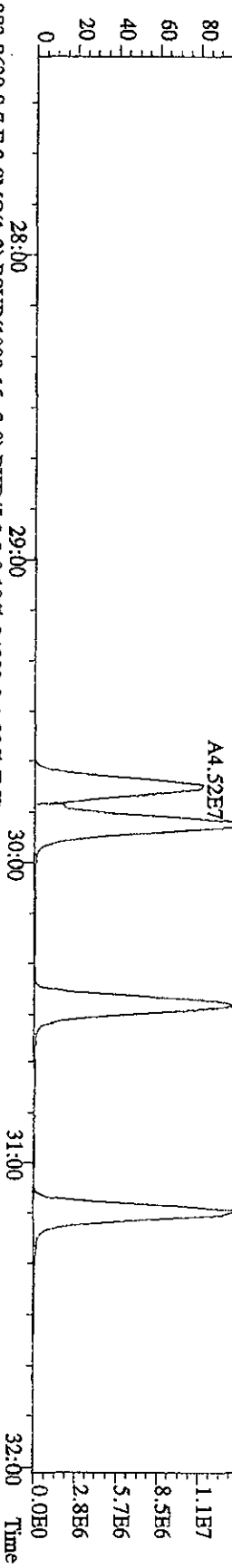
File: 14SEI01D5 #1-301 Acq: 14-SEP-2010 14:54:17 GC EI+ Voltage SIR 70SE

Sample#7 Text: ST0914E 2nd Source 10DXN340 Exp: DIOXINRES

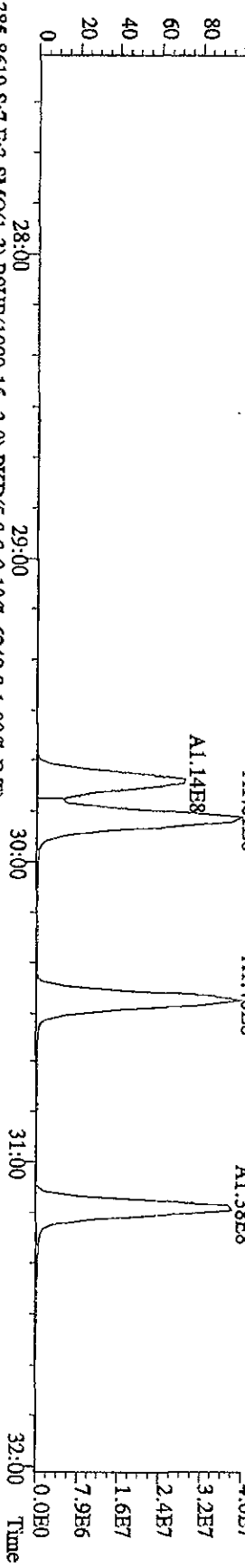
375.8178 S:7 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1.00%,F,T)



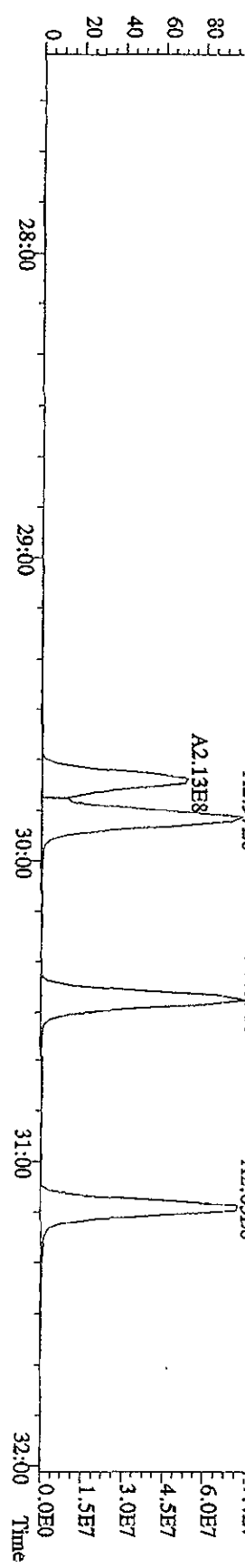
385.8610 S:7 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6248,0.1,00%,F,T)



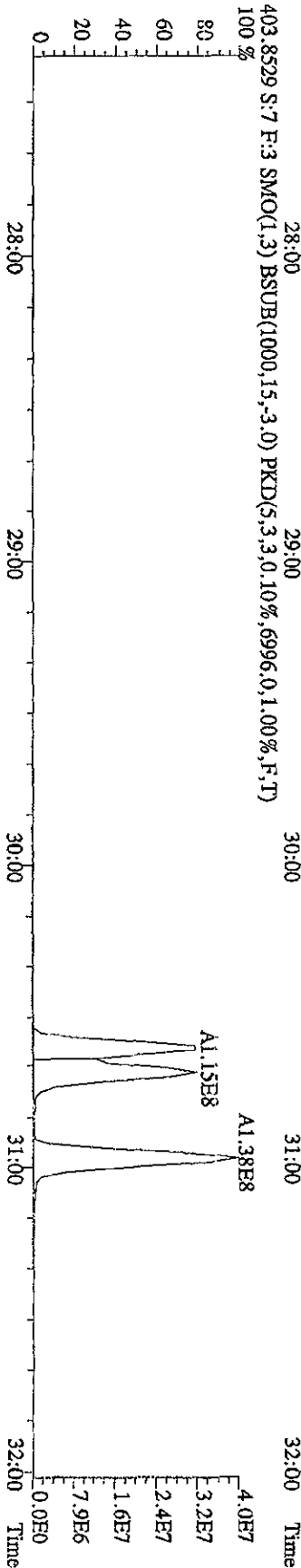
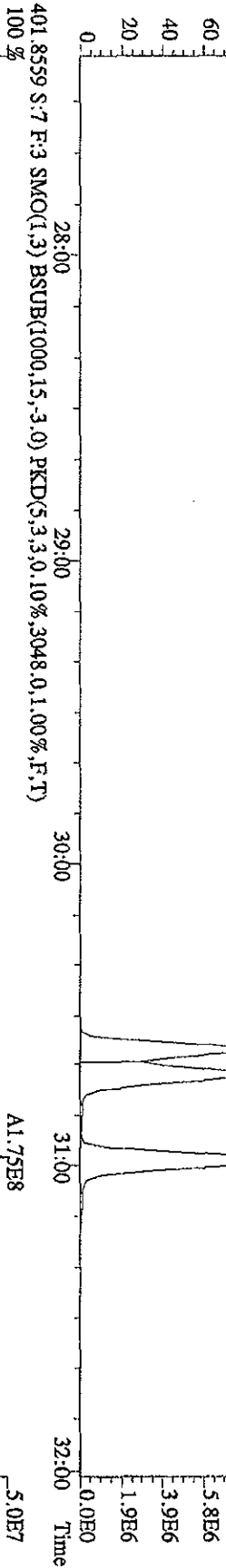
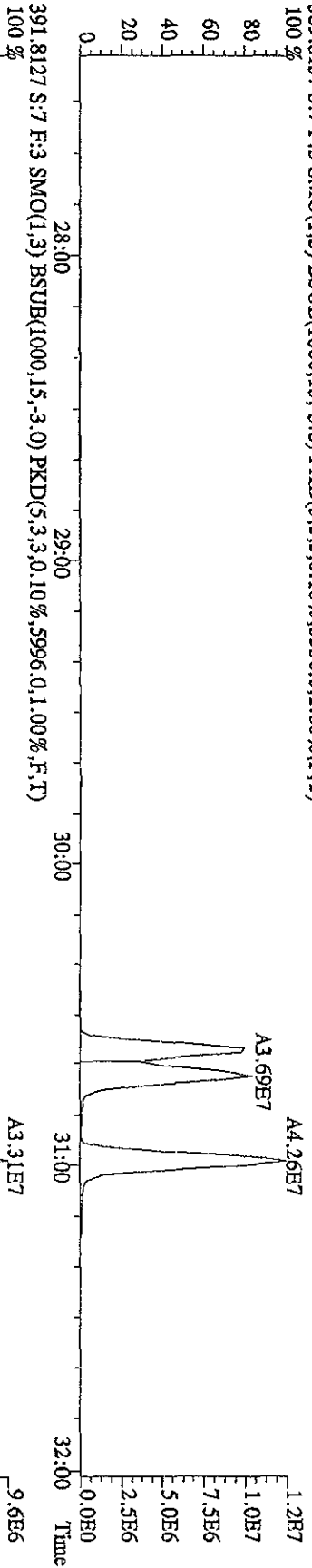
383.8639 S:7 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24892,0.1,00%,F,T)



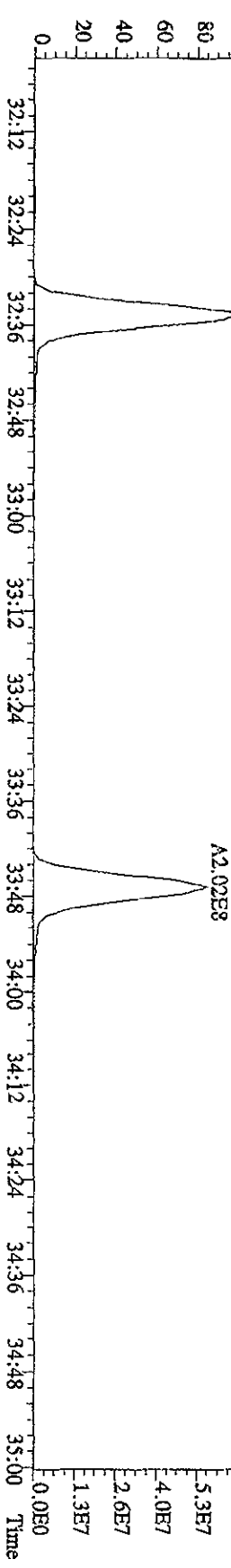
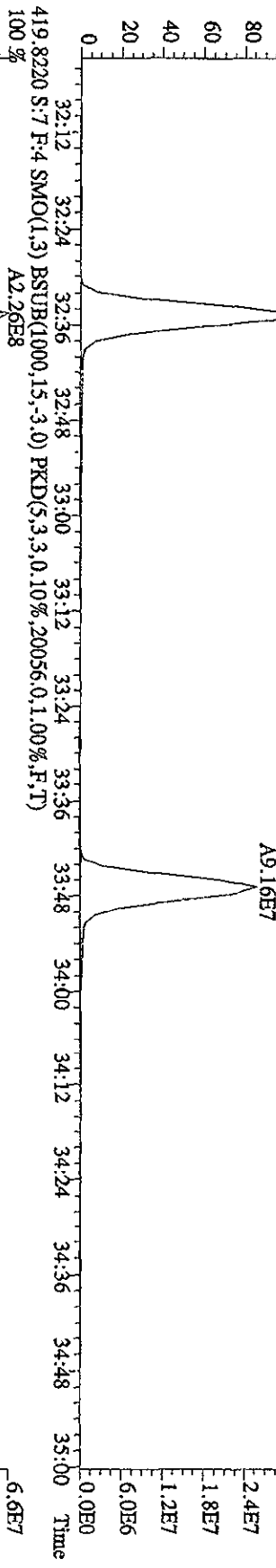
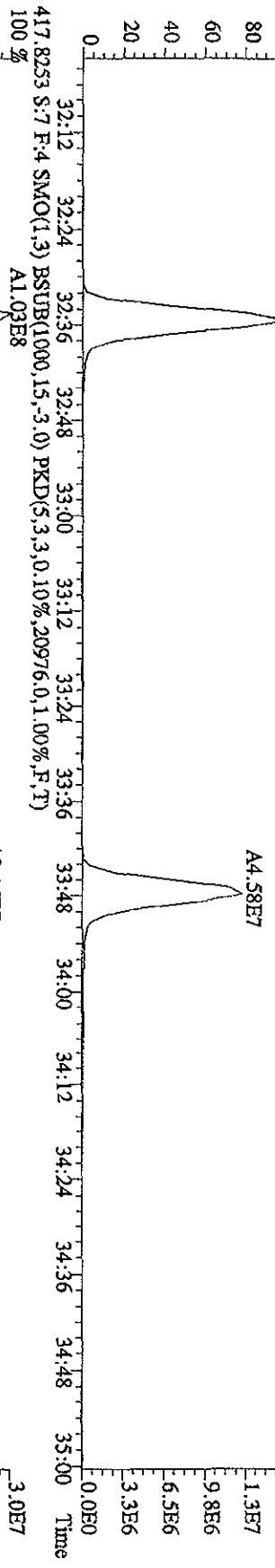
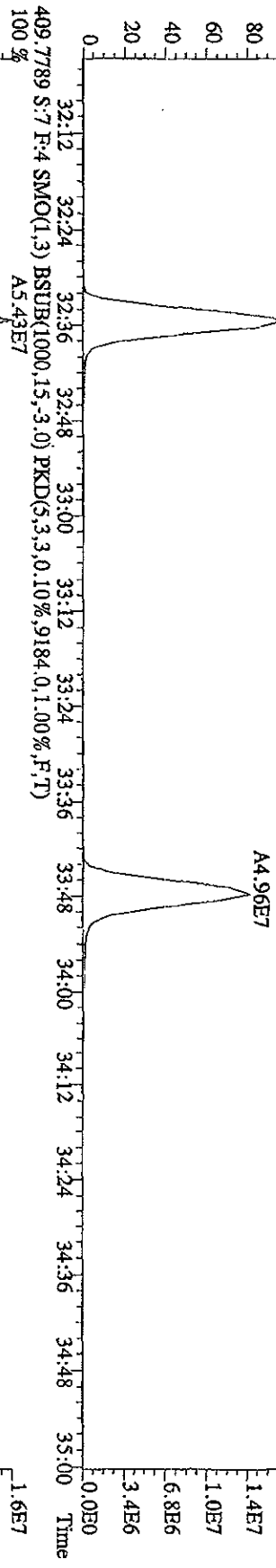
375.8178 S:7 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1.00%,F,T)



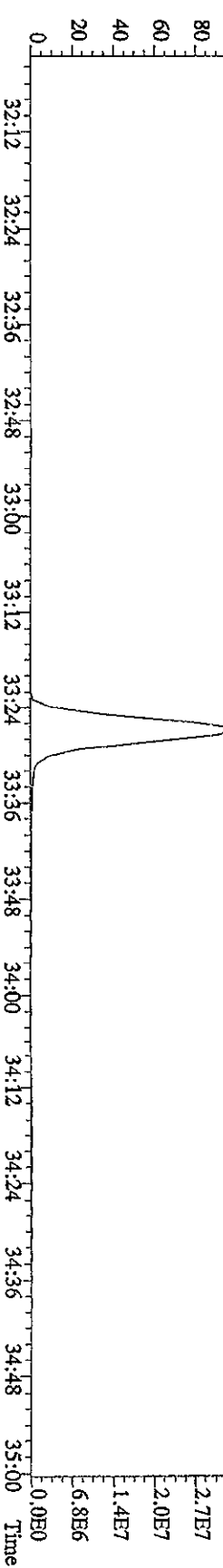
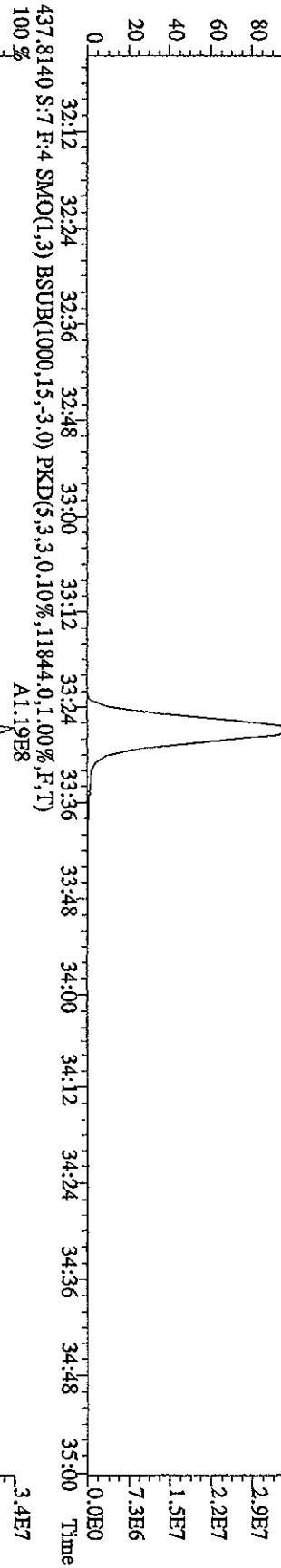
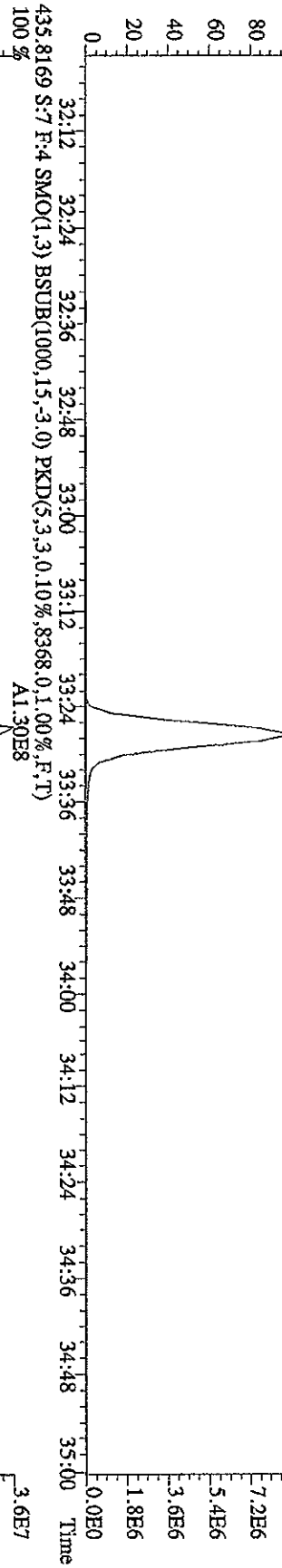
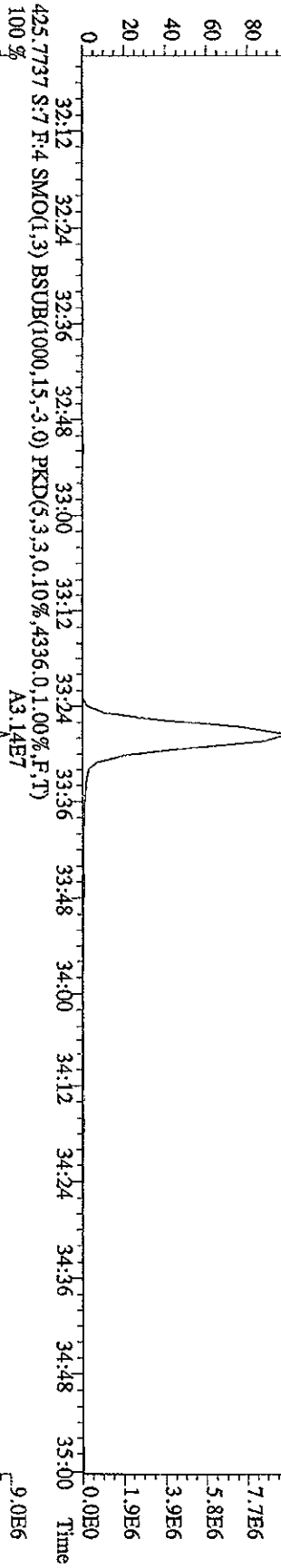
File: 14SEI01D5 #1-301 Acq: 14-SEP-2010 14:54:17 GC EI+ Voltage SIR 70SE  
 Sample#7 Text: ST0914E : 2nd Source 10DXN340 Exp: DIOXINRES  
 389.8157 S: 7 F: 3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3.0,10%,3556.0,1.00%,F,T)



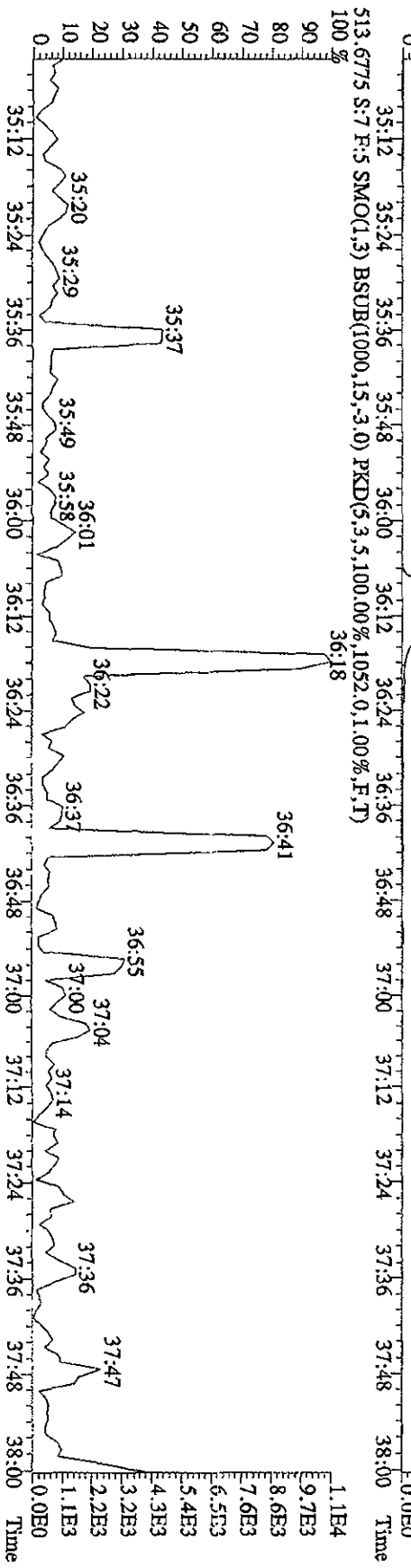
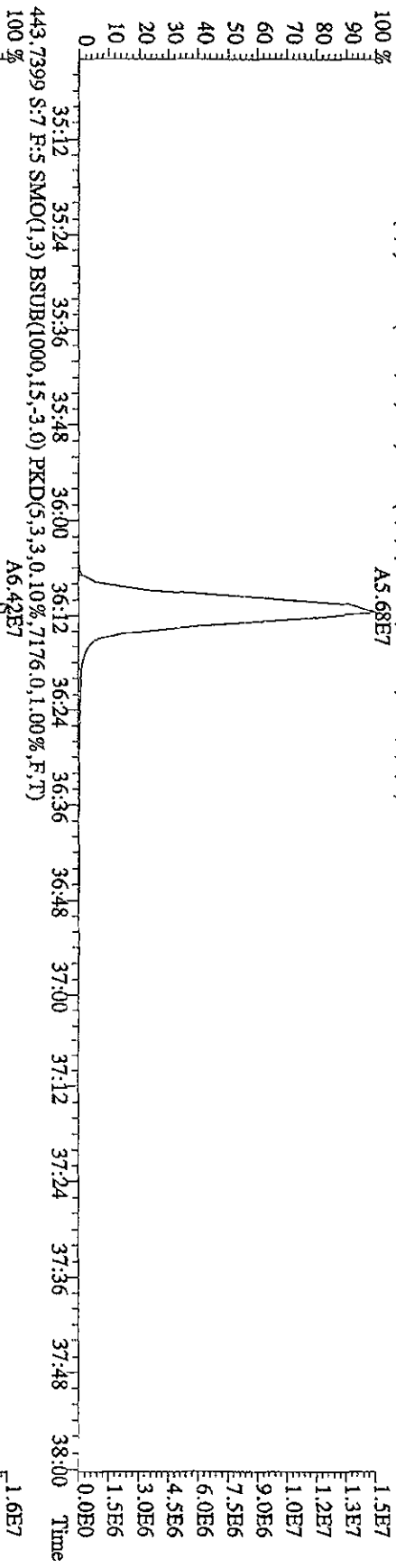
File: 14SEI0101D5 #1.202 Acq: 14-SEP-2010 14:54:17 GC EI+ Voltage STR 70SE  
 Sample#7 Text: ST0914E 2nd Source 10DXIN340 Exp: DIOXINRES  
 407.7818 S:7 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,13372.0,1.00%,F,T)  
 100%



File:14SE101D5 #1-202 Acq:14-SEP-2010 14:54:17 GC EI+ Voltage SIR 70SE  
 Sample#7 Text:ST0914E :2nd Source 10DXN340 Exp:DIOXINRES  
 423.7766 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0.10%,4408,0.1,00%,F,T)  
 100 % A3.38E7

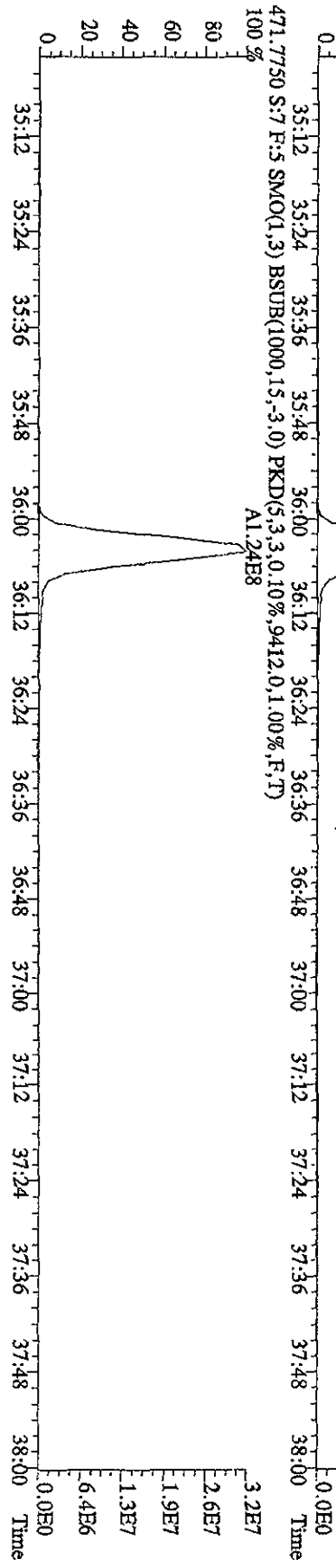
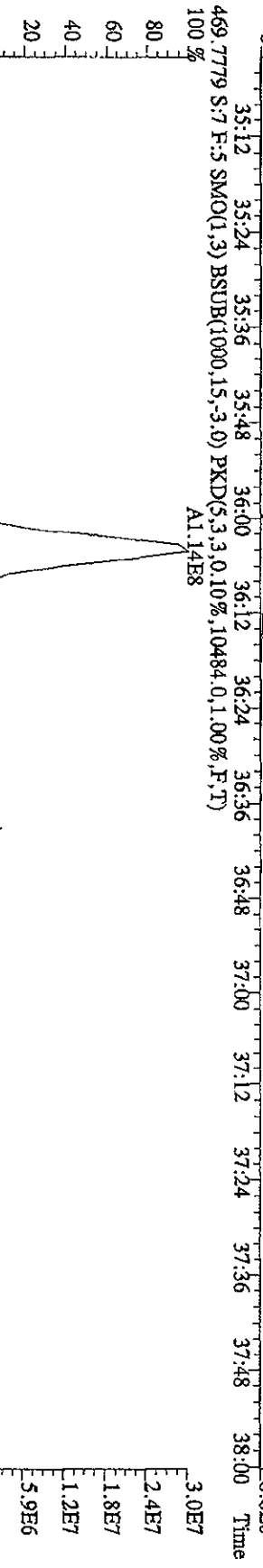
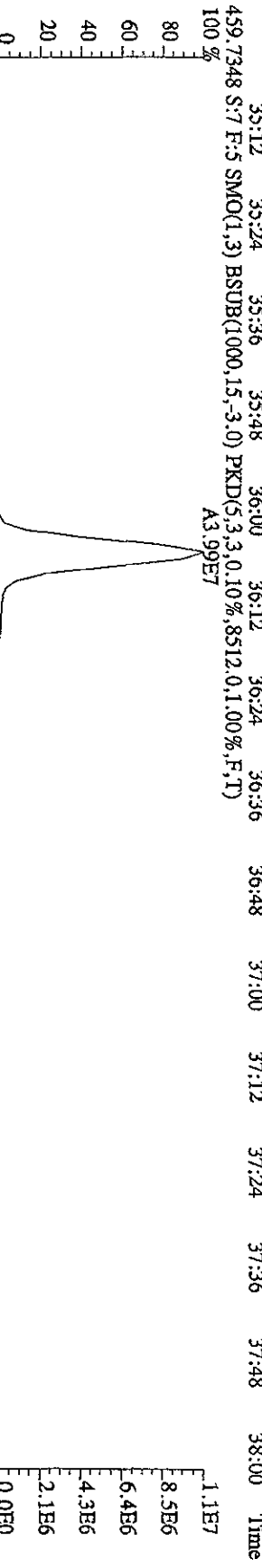
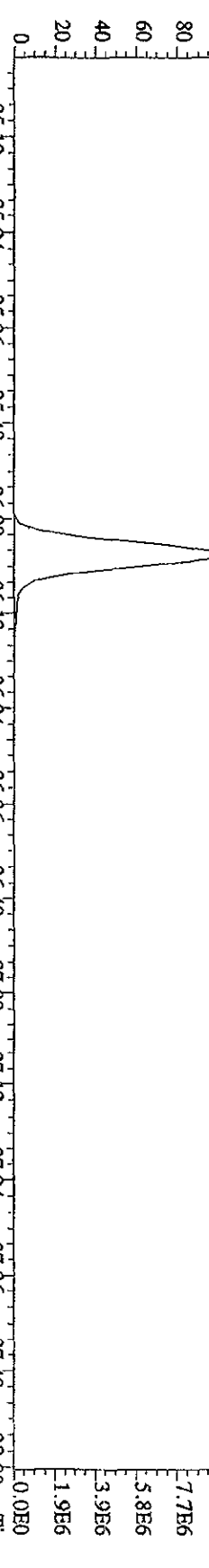


File:14SEP10ID5 #1-196 Acq:14-SEP-2010 14:54:17 GC EI+ Voltage SIR 70SE  
 Sample#7 Text:ST0914E 2nd Source 10DXN340 Exp:DIOXINRES  
 441.7428 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0,10%,5104.0,1.00%,F,T)  
 100% A5.68E7

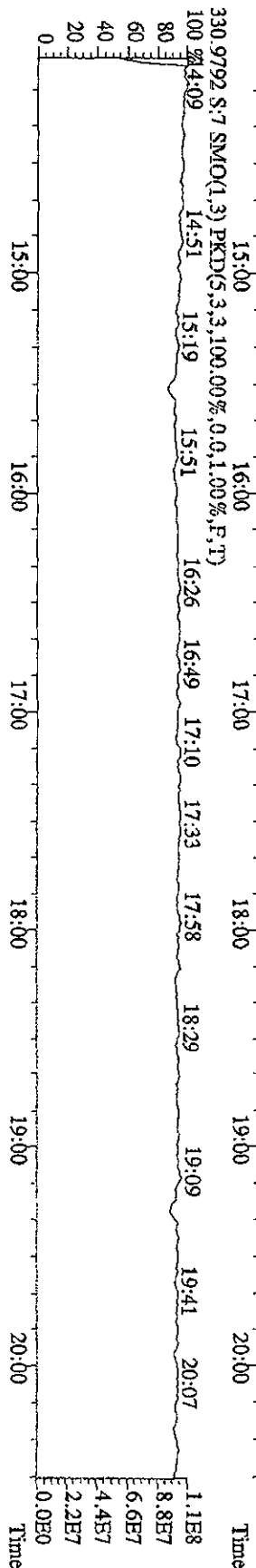
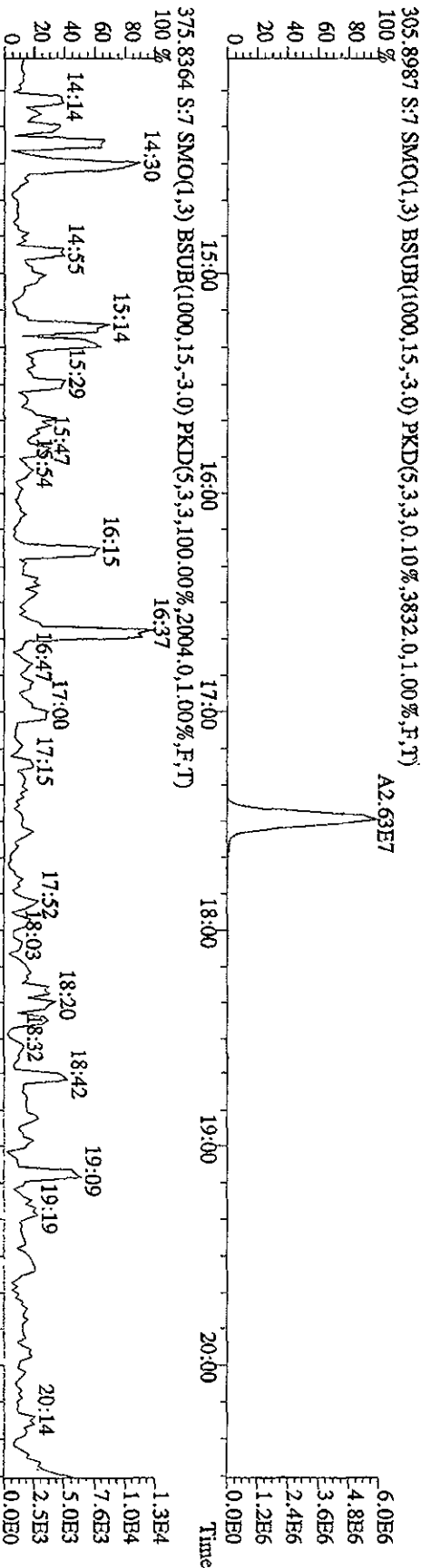
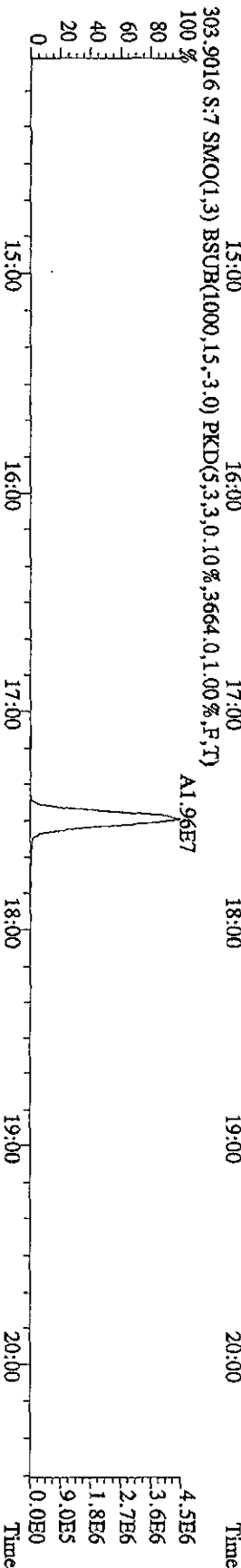
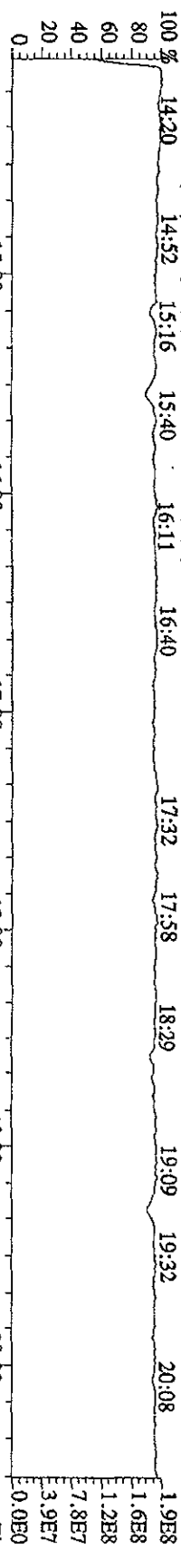




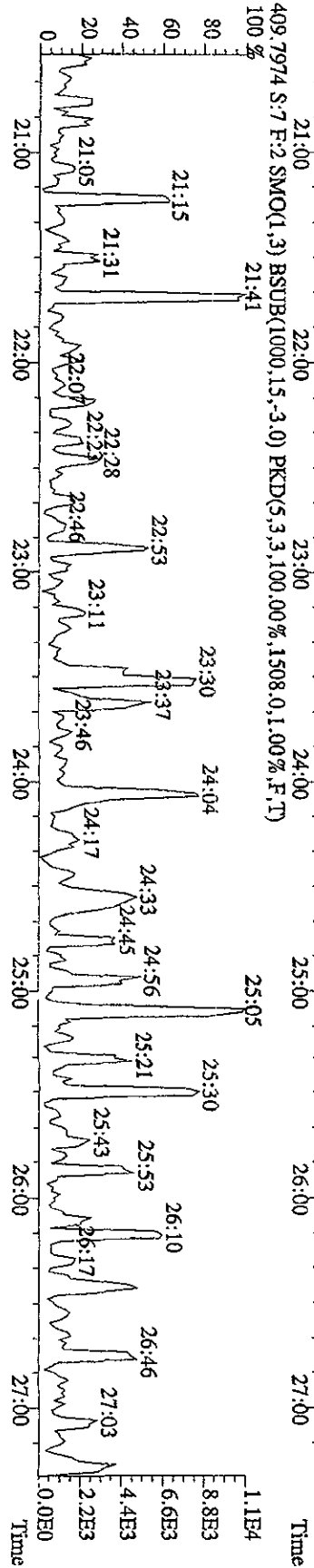
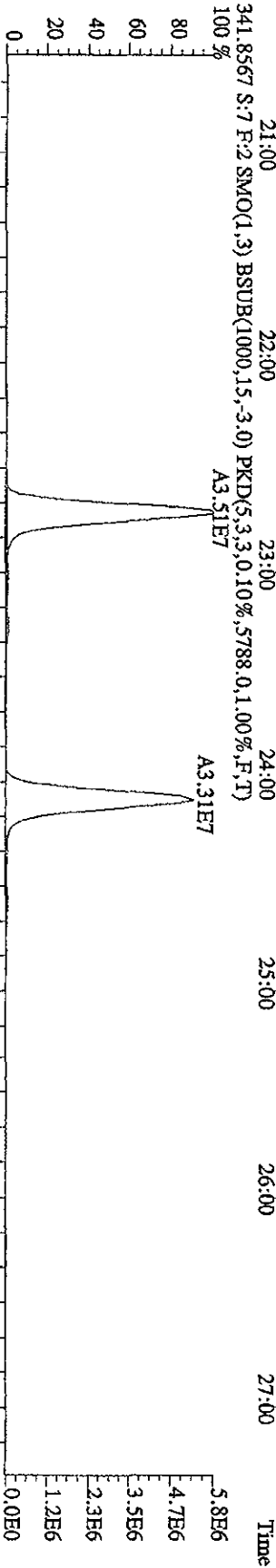
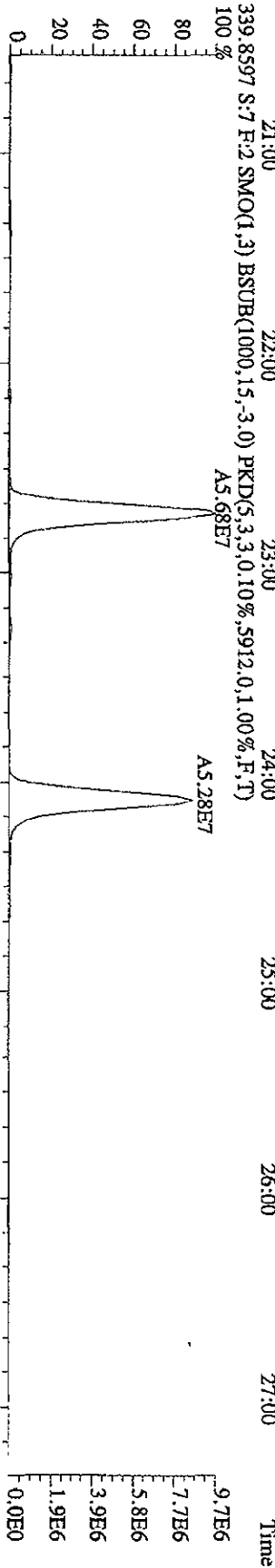
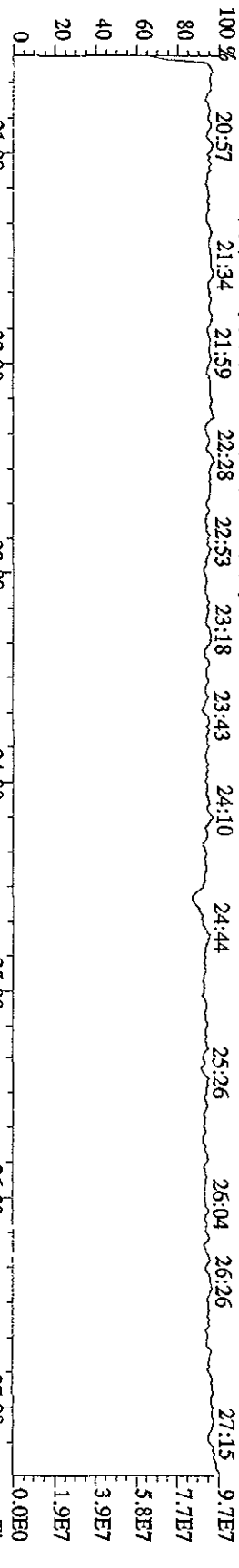
File: 14SE101D5 #1-196 Acq: 14-SEP-2010 14:54:17 GC EI+ Voltage SIR 70SE  
 Sample#7 Text: ST0914B 2nd Source 10DXN340 Exp: DIOXINRES  
 457.7377 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3928,0.1,00%,F,T)  
 100%



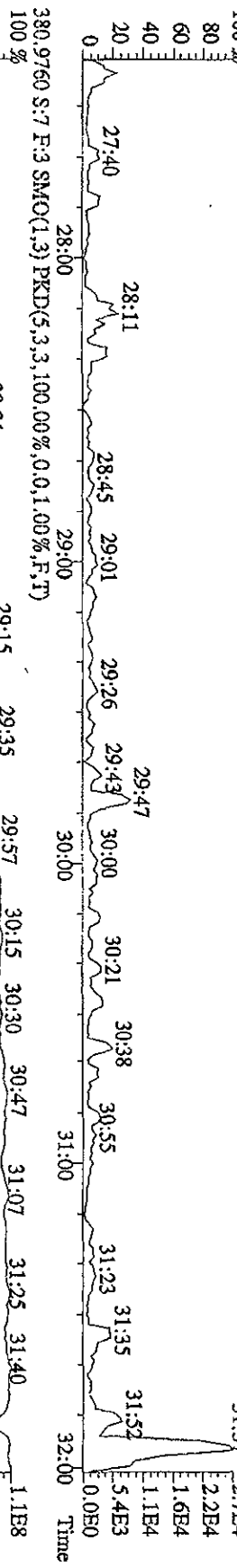
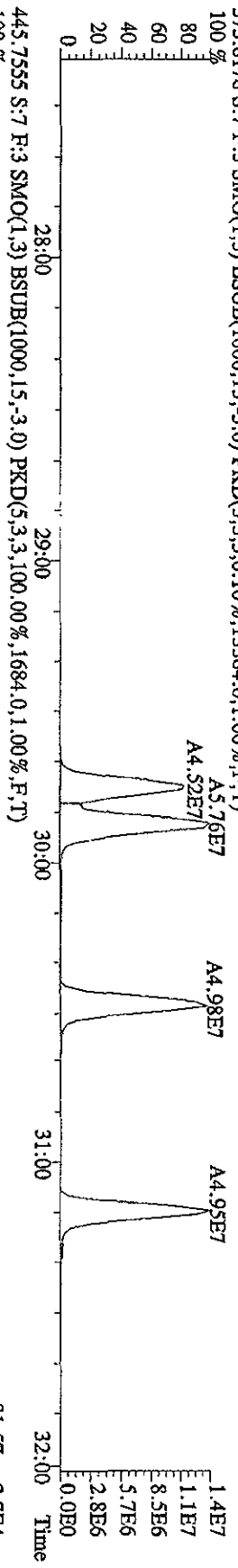
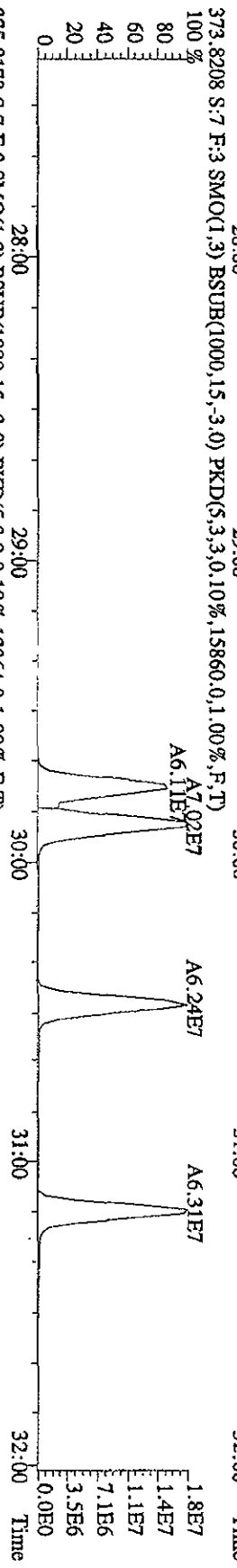
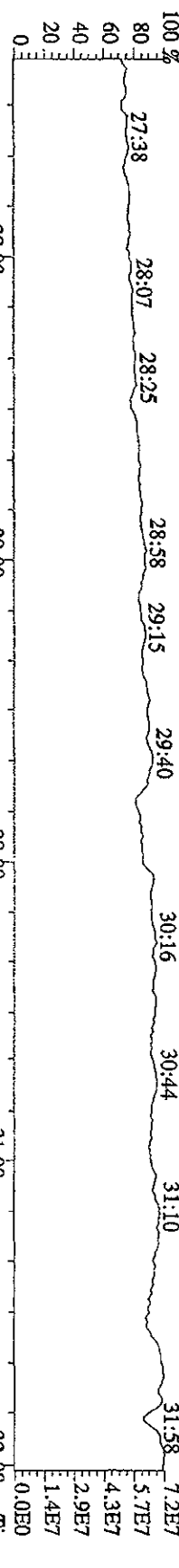
File: 14SEI01D5 #1-382 Acq: 14-SEP-2010 14:54:17 GC EI+ Voltage SIR 70SE  
 Sample#7 Text: ST0914E 2nd Source 10DXN340 Exp: DIOXINRES  
 292.9825 S:7 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)  
 303.9016 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3664,0.1,0.00%,F,T)  
 305.8987 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3832,0.1,0.00%,F,T)  
 375.8364 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,2004,0.1,0.00%,F,T)  
 330.9792 S:7 SMO(1,3) PKD(5,3,3,100.00%,0.0,0.1,0.00%,F,T)



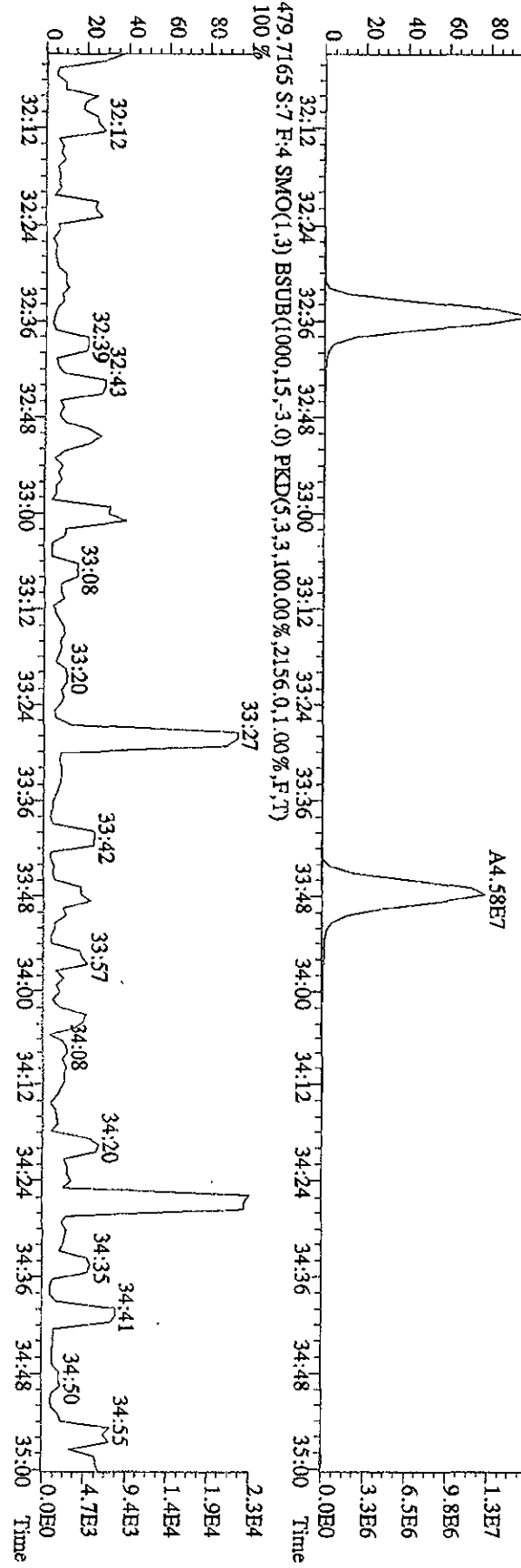
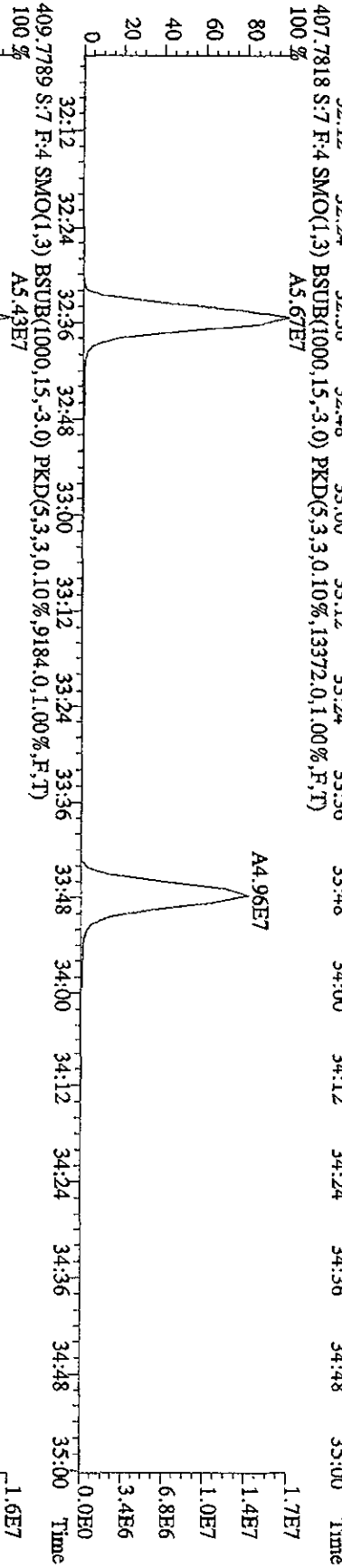
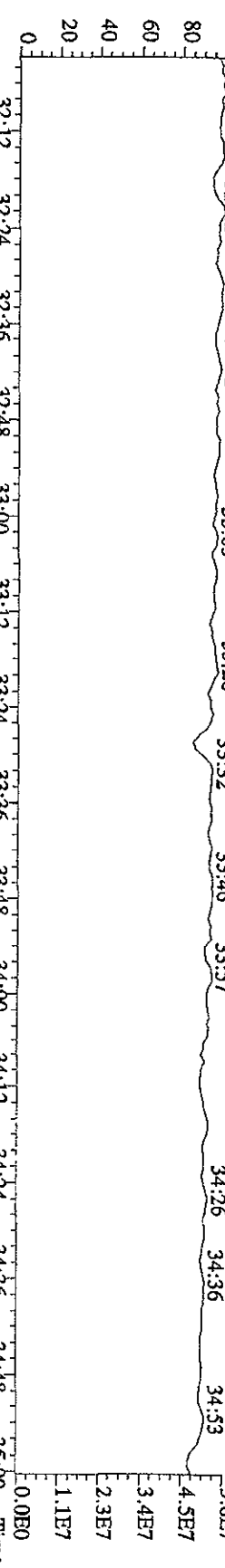
File:14SEI01D5 #1-423 Acq:14-SEP-2010 14:54:17 GC EI + Voltage SIR 70SE  
 Sample#7 Text:ST0914E :2nd Source 10DXN340 Exp:DIOXINRES  
 342.9792 S:7 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



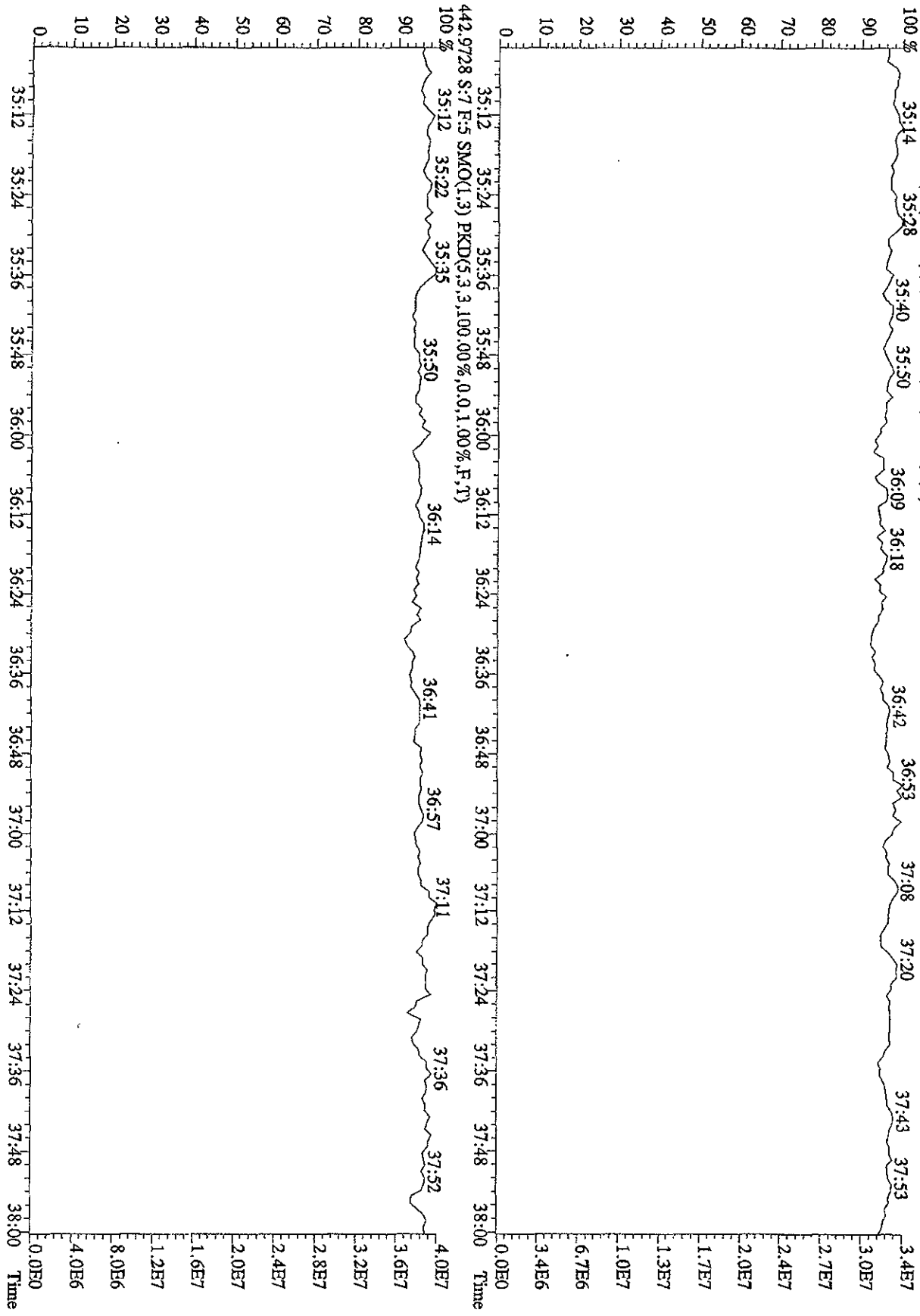
File: 14SE101D5 #1-301 Acq: 14-SEP-2010 14:54:17 GC EI+ Voltage SIR 70SE  
 Sample#7 Text: ST0914E 2nd Source 10DXN340 Exp: DIOXINRES  
 392.9760 S:7 F:3 SMO(1.3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



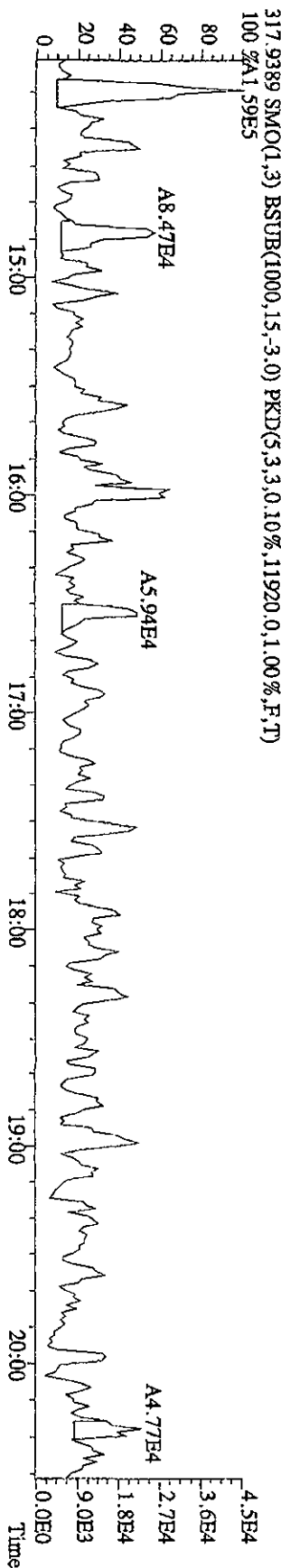
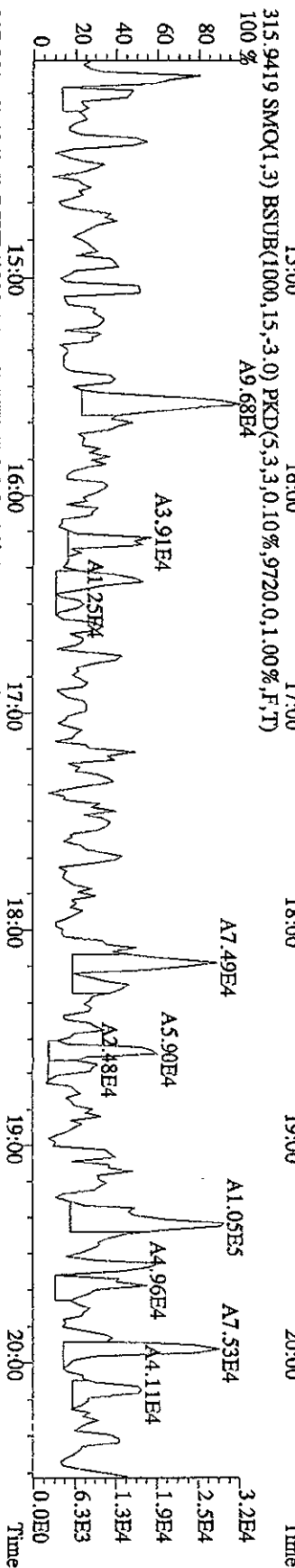
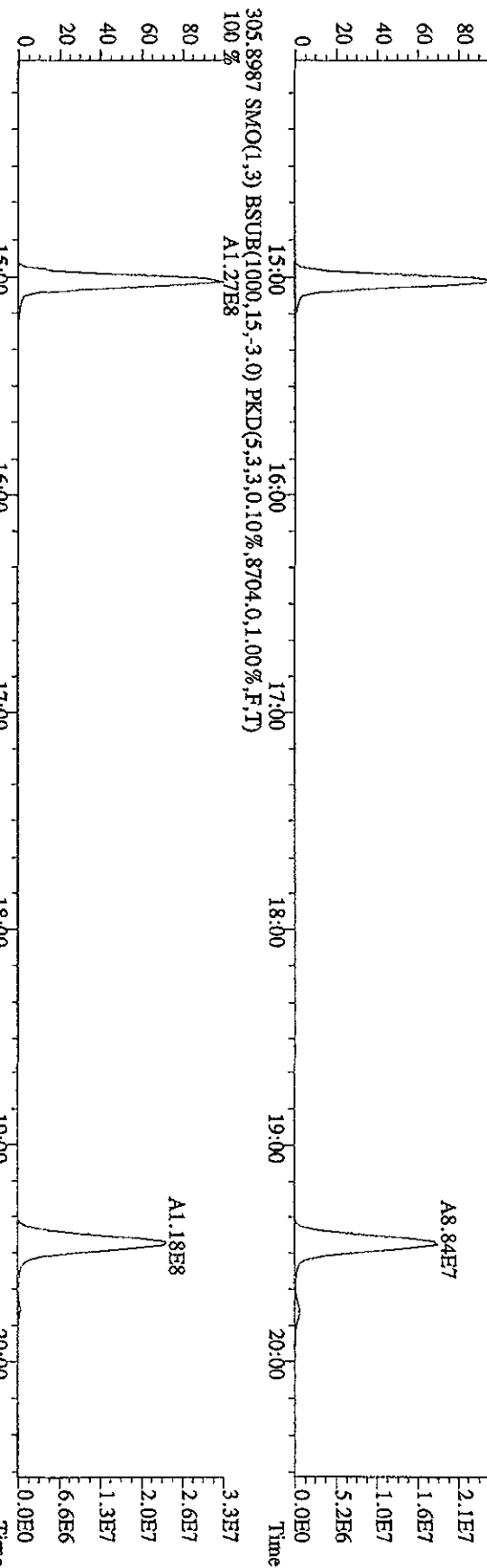
File:14SE101D5 #1-202 Acq:14-SEP-2010 14:54:17 GC EI+ Voltage SIR 70SE  
 Sample#7 Text:ST0914E 2nd Source 10DXN340 Exp:DIOXINRES  
 430 9728 S:7 F:4 SMO(1.3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100 %32.07 32.22 32.42 33:03 33:20 33:32 33:46 33:57 34:26 34:36 34:53



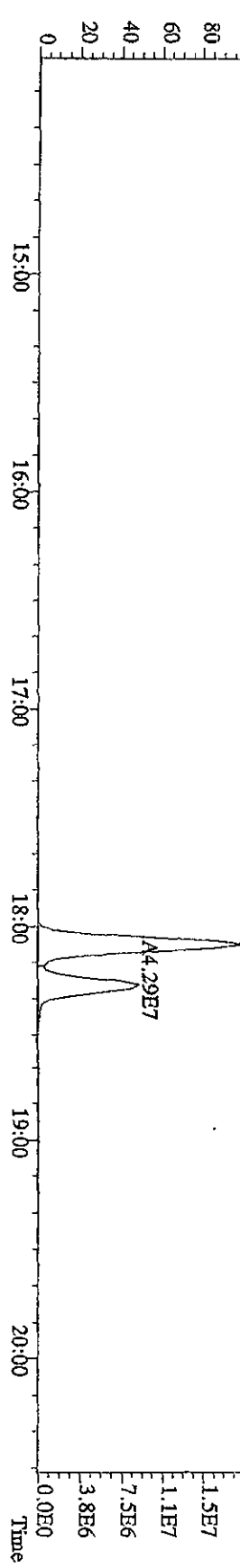
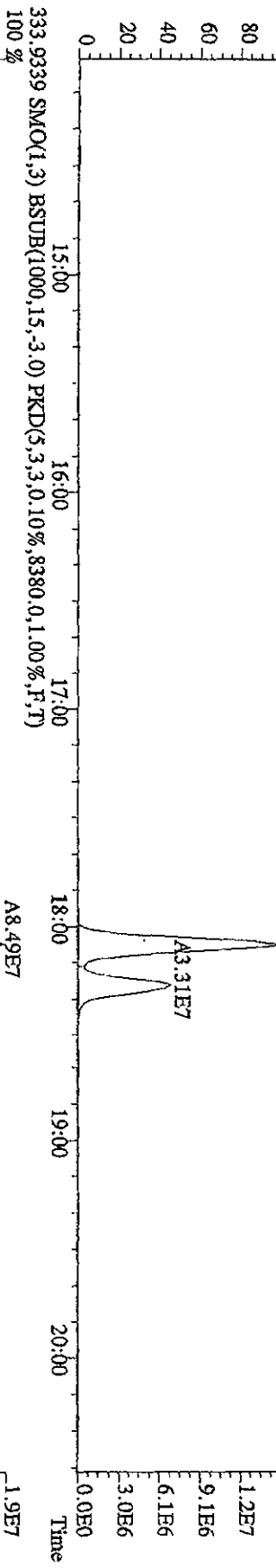
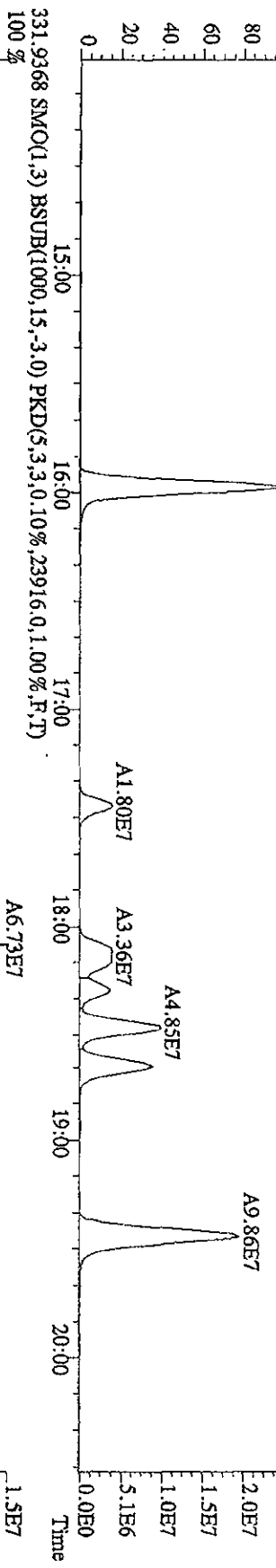
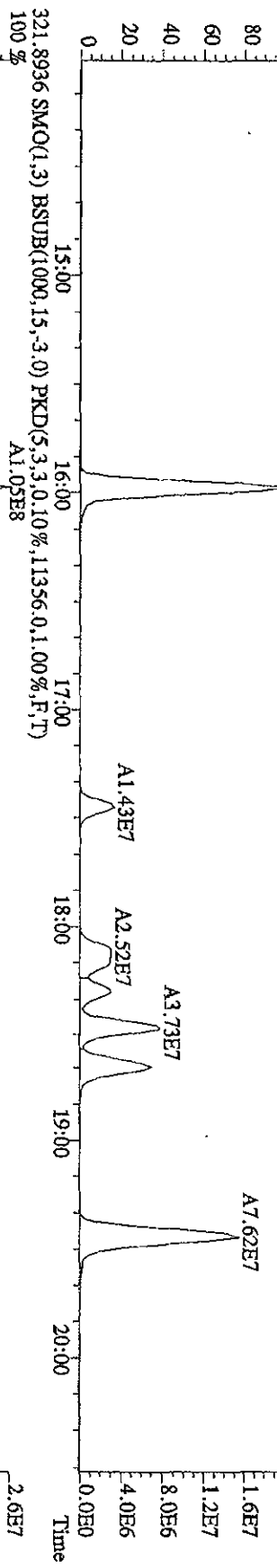
File:14SE101D5 #1-196 Acq:14-SEP-2010 14:54:17 GC EI+ Voltage SIR 70SE  
 Sample#7 Text:ST0914E 2nd Source 10DXN340 Exp:DIOXINRES  
 454.9728 S:7 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File: 14SEP101D5 #1-383 Acq: 14-SEP-2010 10:35:01 GC EI + Voltage SIR 70SE  
 Sample#1 Text: CP0914 :DB-5 CP/SM 3732-07 Exp: DIOXINRES  
 305.8987 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,8704,0.1,00%,F,T)  
 100% A1.27E8 A9.86E7

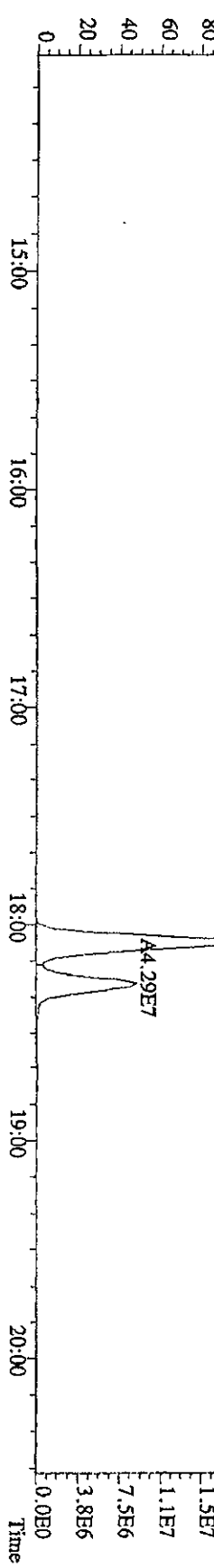
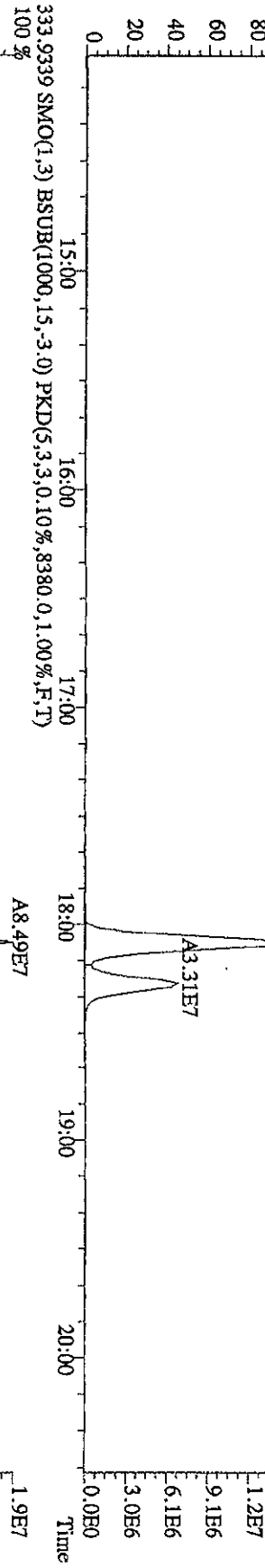
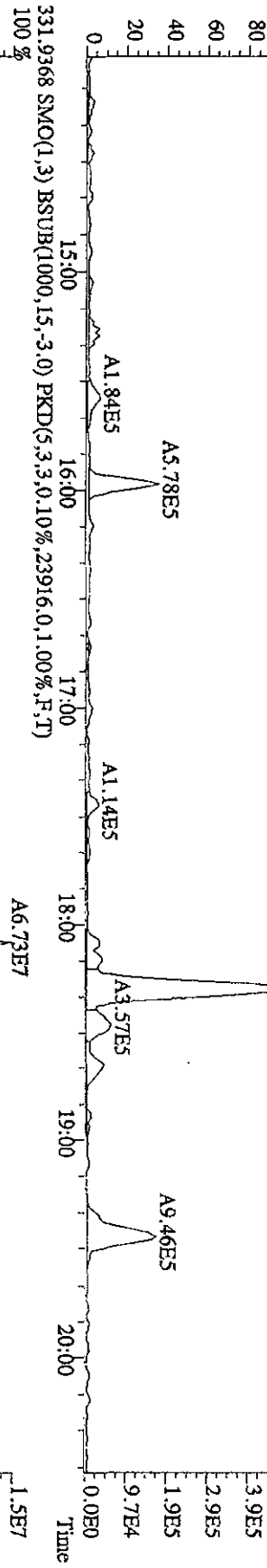
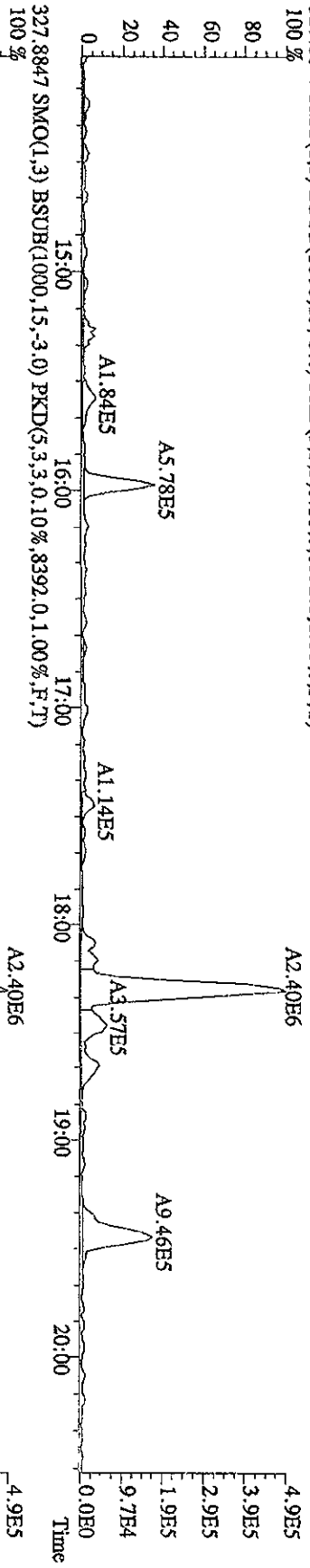


File:14SEI01D5 #1-383 Acq:14-SEP-2010 10:35:01 GC EI+ Voltage SIR 70SE  
 Sample#1 Text:CP0914 :DB-5 CP5M 3732-07 Exp:DIOXINRES  
 319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9636,0.1,00%,F,T)  
 100 % A8.26E7

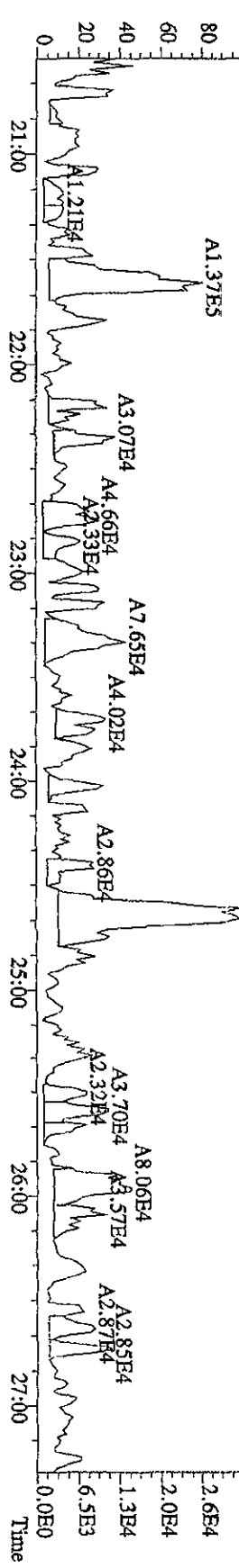
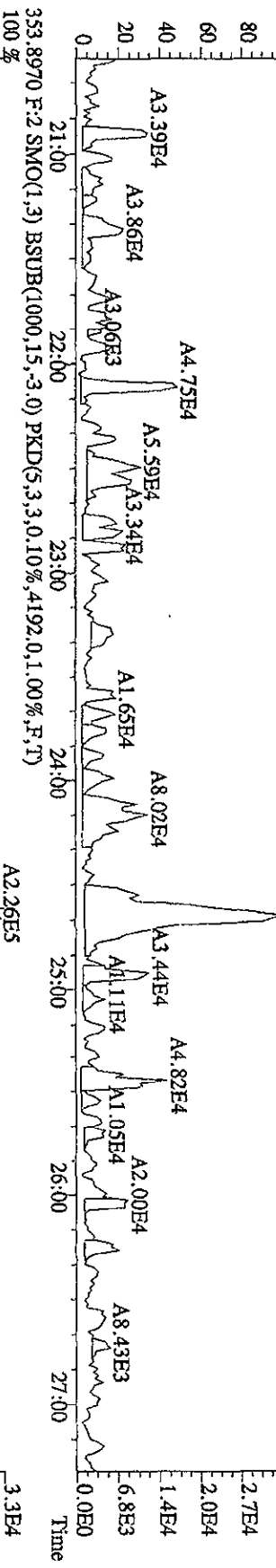
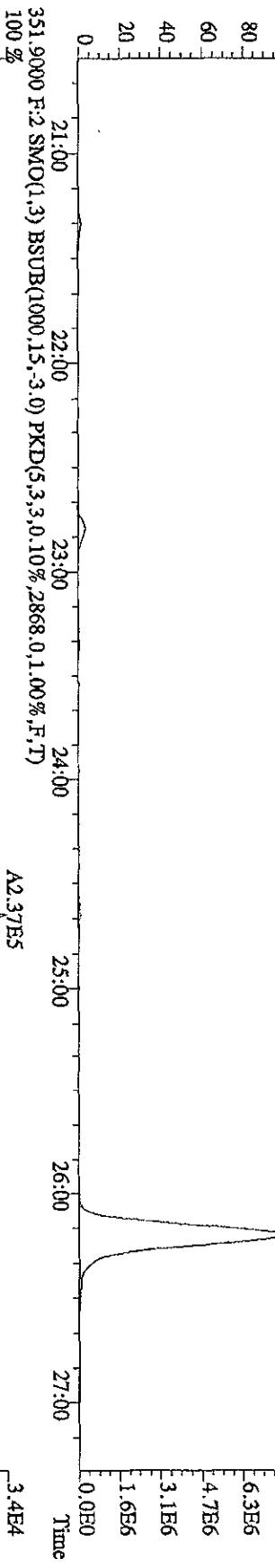
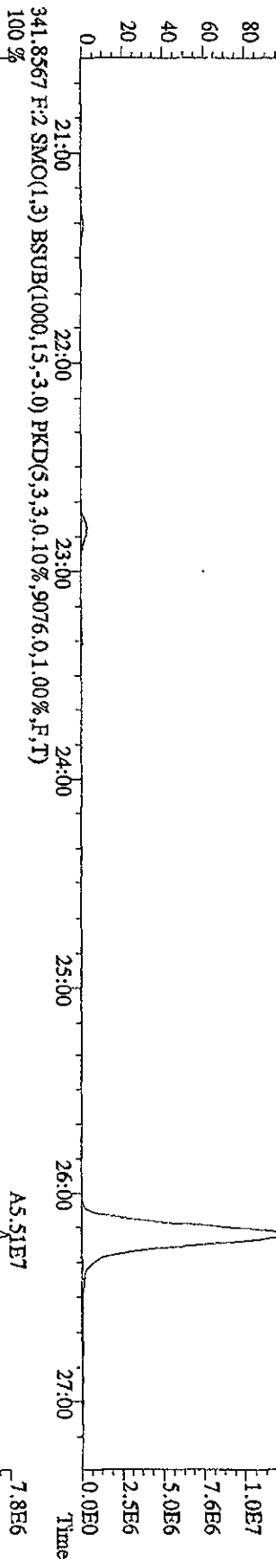




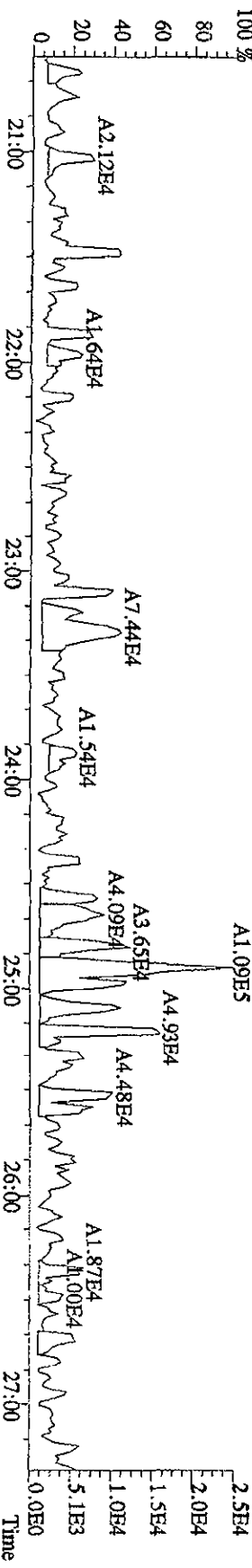
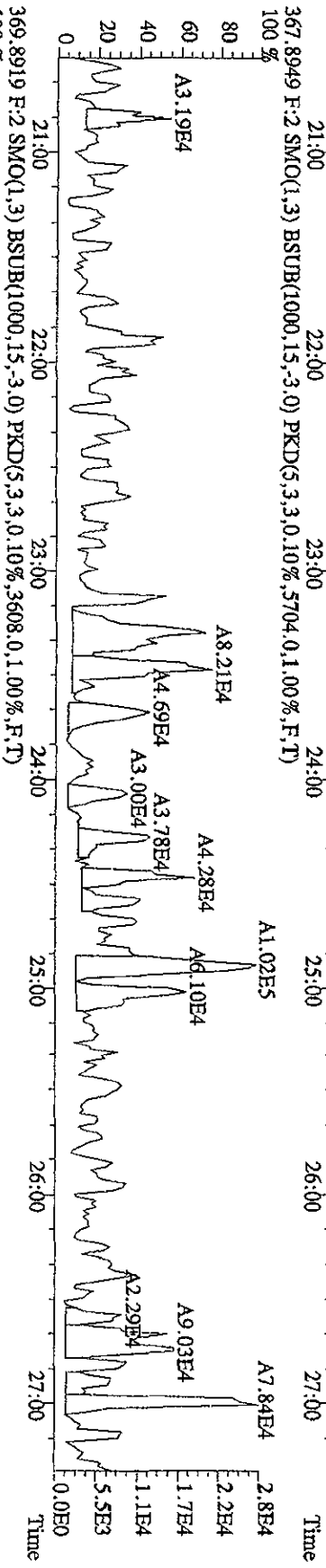
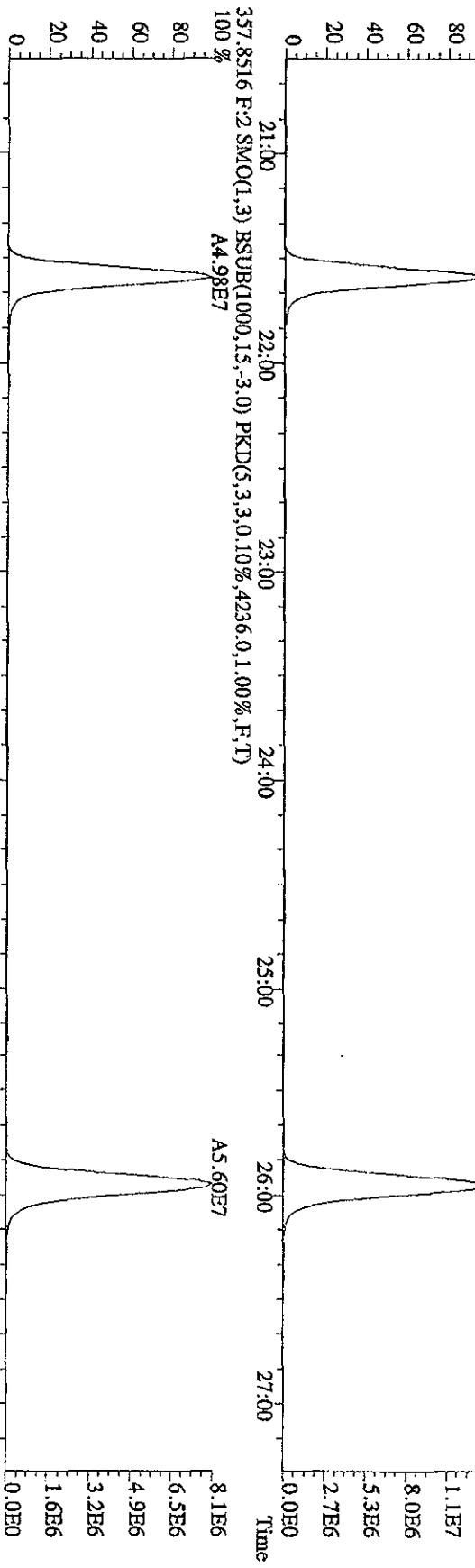
File:14SE101D5 #1-383 Acq:14-SEP-2010 10:35:01 GC EI + Voltage SIR 70SE  
 Sample#1 Text:CP0914 :DB-5 CP5M 3732-07 Exp:DIOXINRES  
 327.8847 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,8392,0,1,00%,F,T)  
 100 %



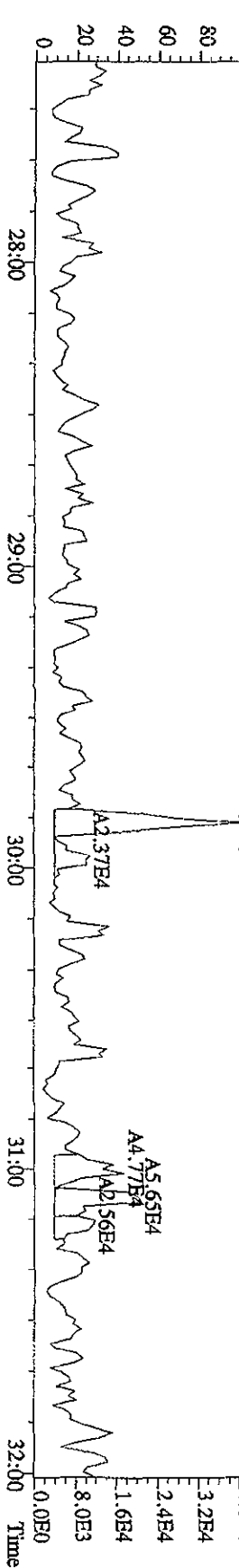
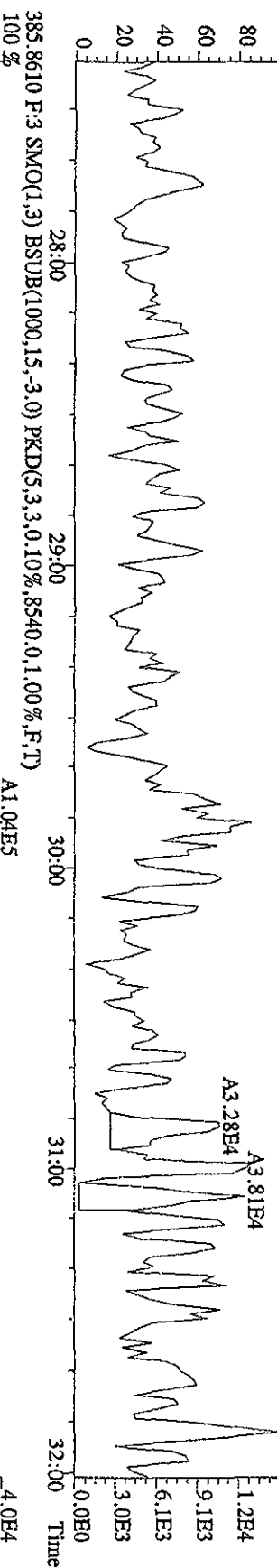
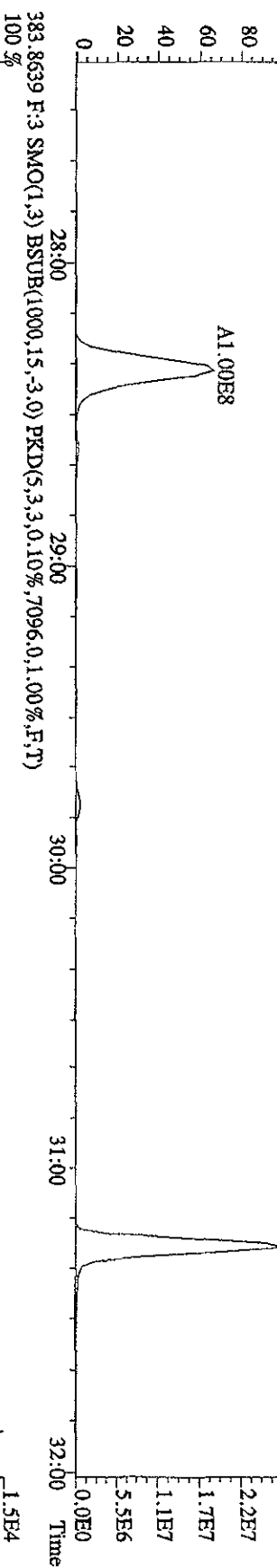
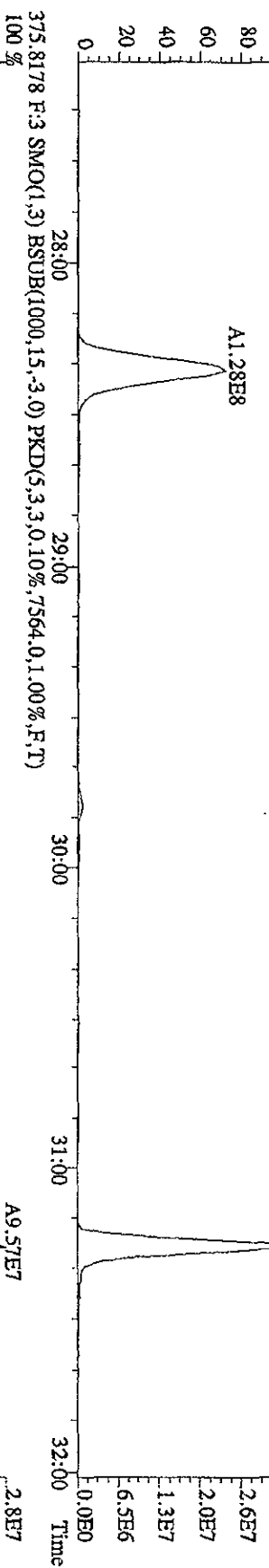
File:14SEH101D5 #1-422 Acq:14-SEP-2010 10:35:01 GC EI+ Voltage SIR 70SE  
 Sample#1 Text:CP0914 ;DB-5 CPSM 3732.07 Exp:DIOXINRES  
 339,8597 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9076,0,1,00%,F,T)  
 100%



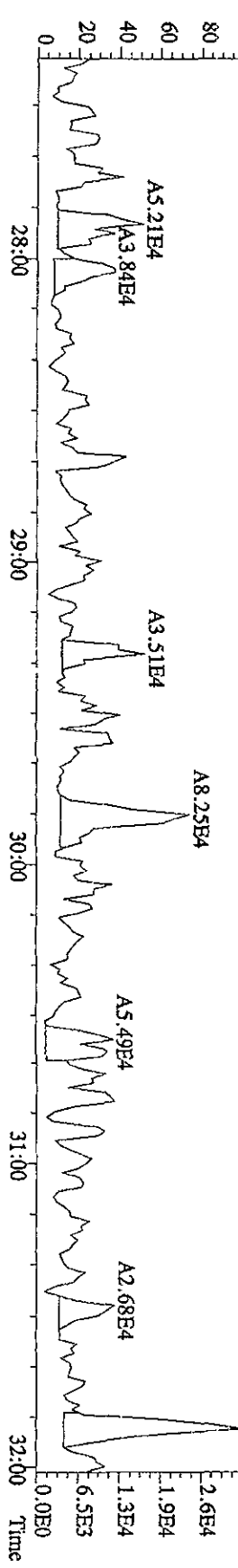
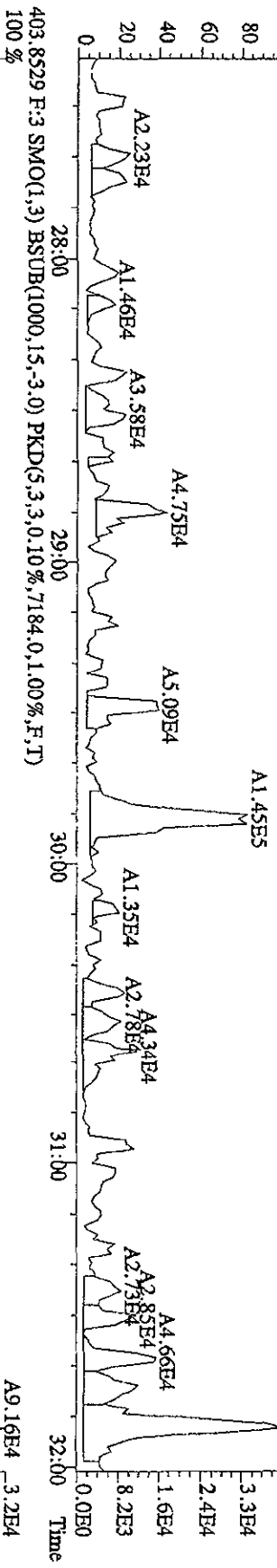
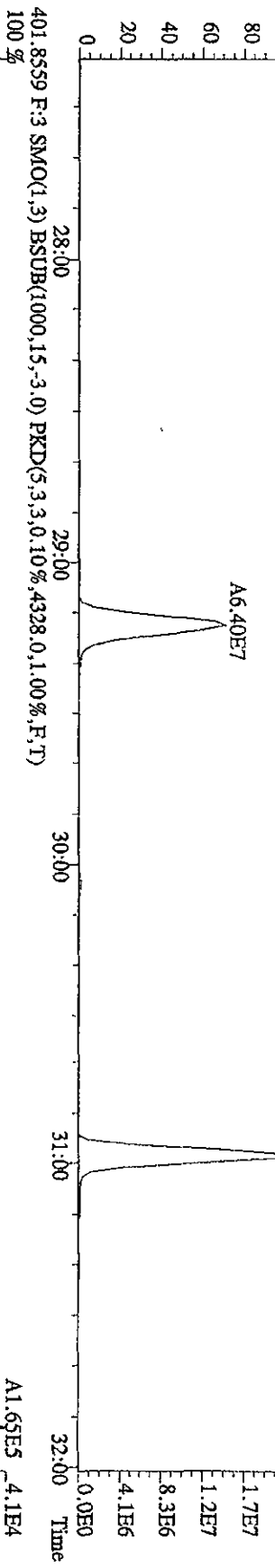
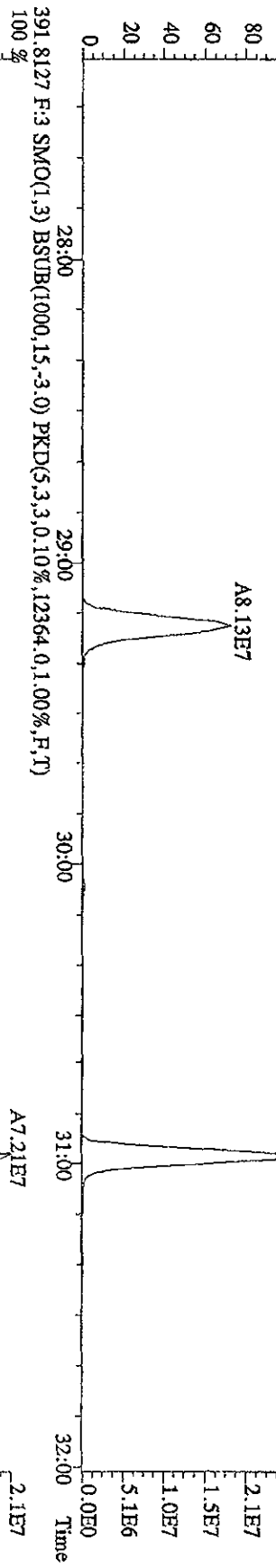
File:14SE101D5 #1-422 Acq:14-SEP-2010 10:35:01 GC EI+ Voltage SIR 70SE  
 Sample#1 Text:CP0914 :DB-5 CP5M 3732-07 Exp:DIOXINRES  
 355.8546 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8228,0,1,00%,F,T)  
 100%



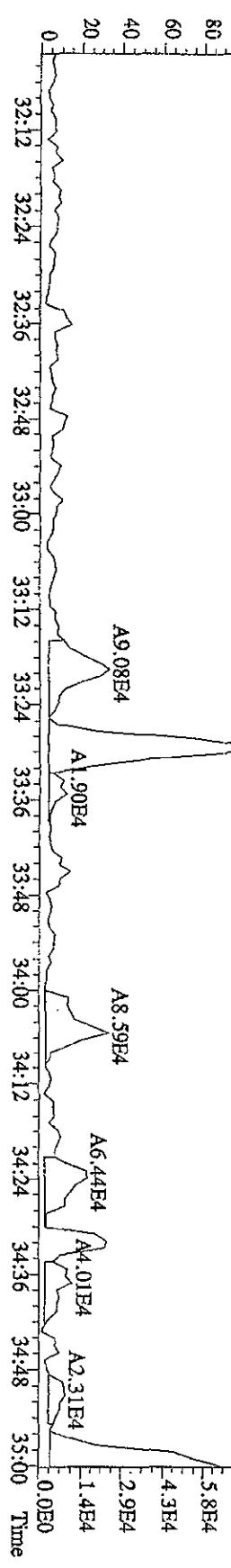
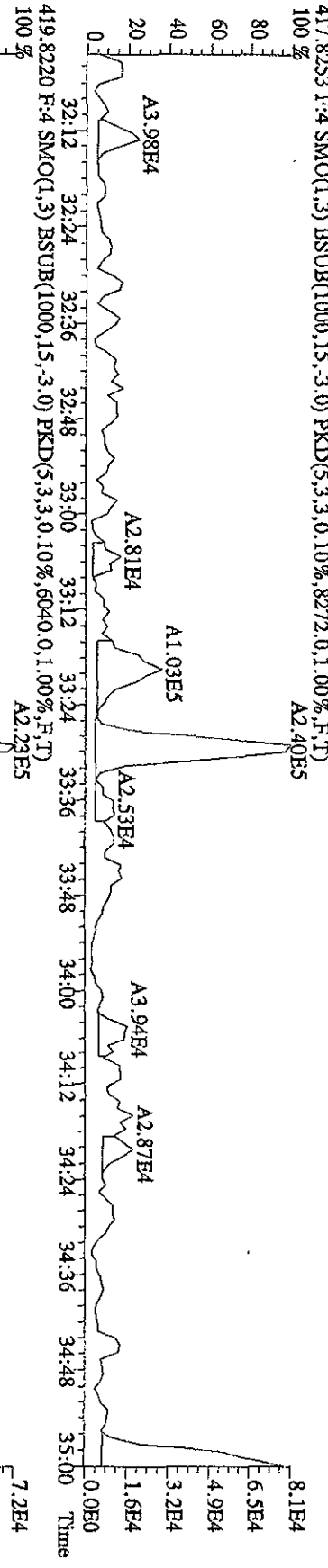
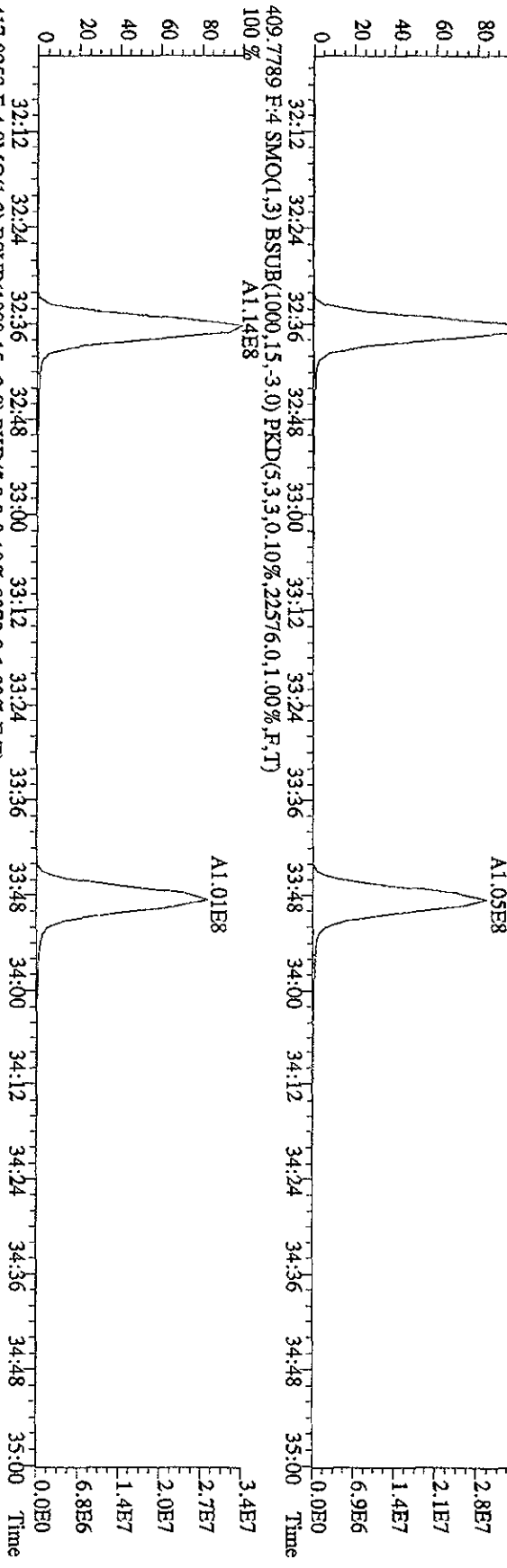
File:14SEB101D5 #1-301 Acq:14-SEP-2010 10:35:01 GC EI+ Voltage SIR 70SE  
 Sample#1 Text:CP0914 :DB-5 CP5M 3732-07 Exp:DIOXINRES  
 373.8208 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6828,0,1,00%,F,T)  
 100%



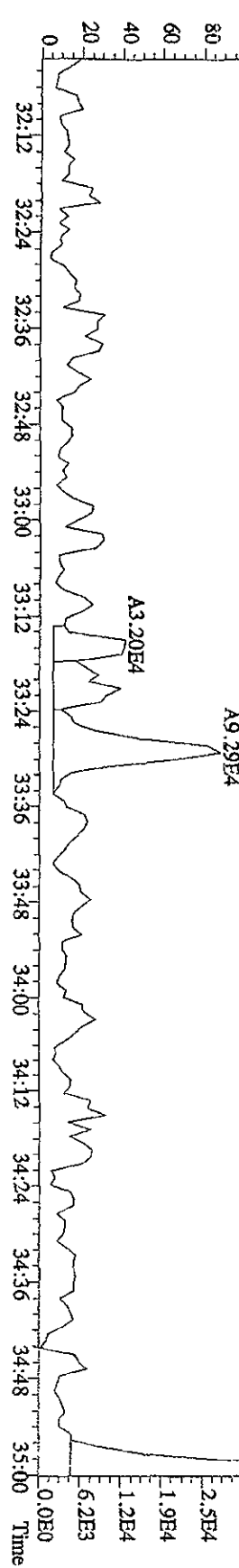
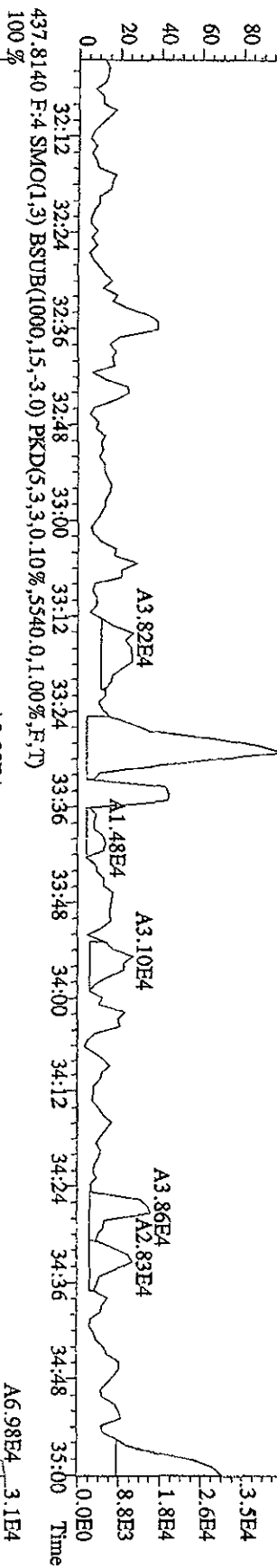
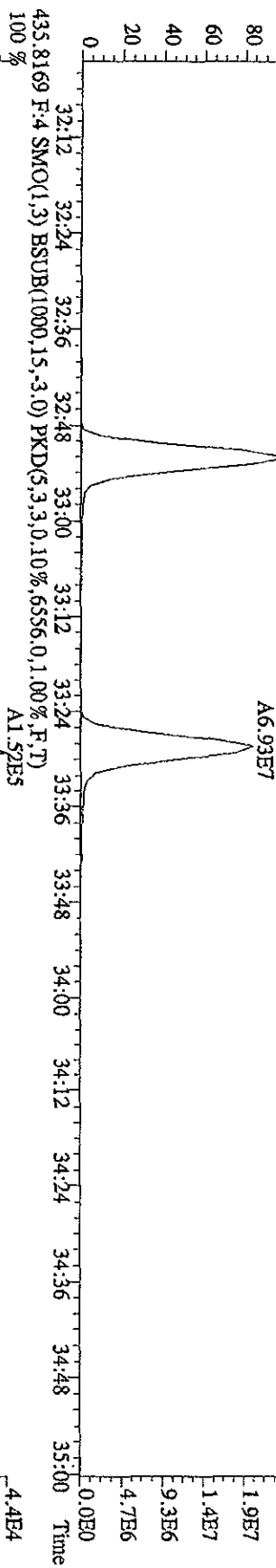
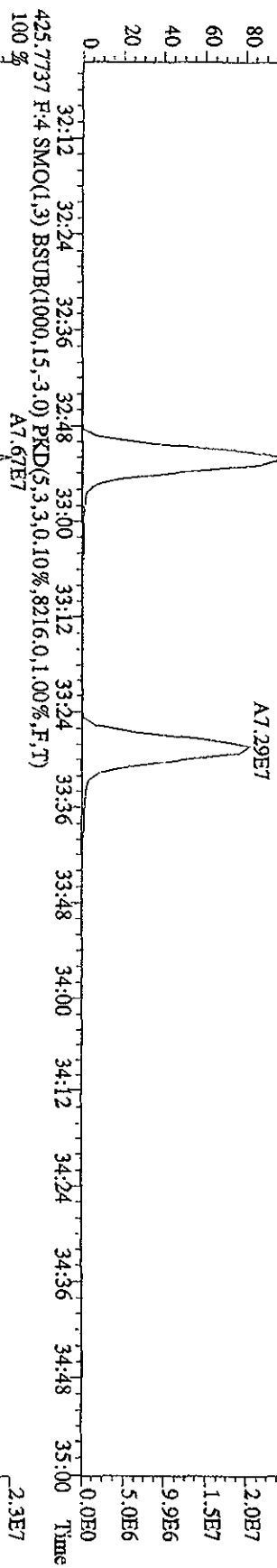
File:14SEI01D5 #1-301 Acq:14-SEP-2010 10:35:01 GC EI+ Voltage SIR 70SE  
 Sample#1 Text:CP0914 :DB-5 CPSM 3732-07 Exp:DIOXINES  
 389 8157 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5088,0.1,0.00%,F,T)  
 100 %



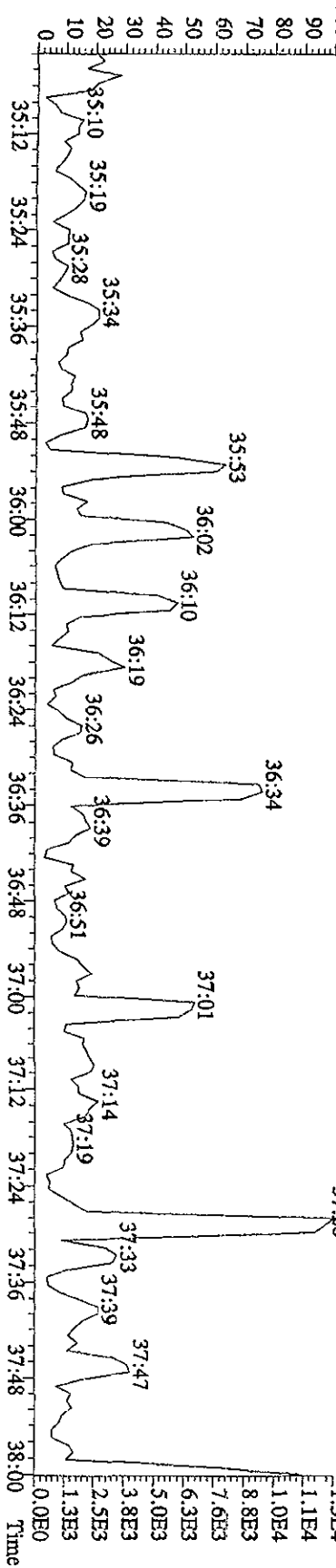
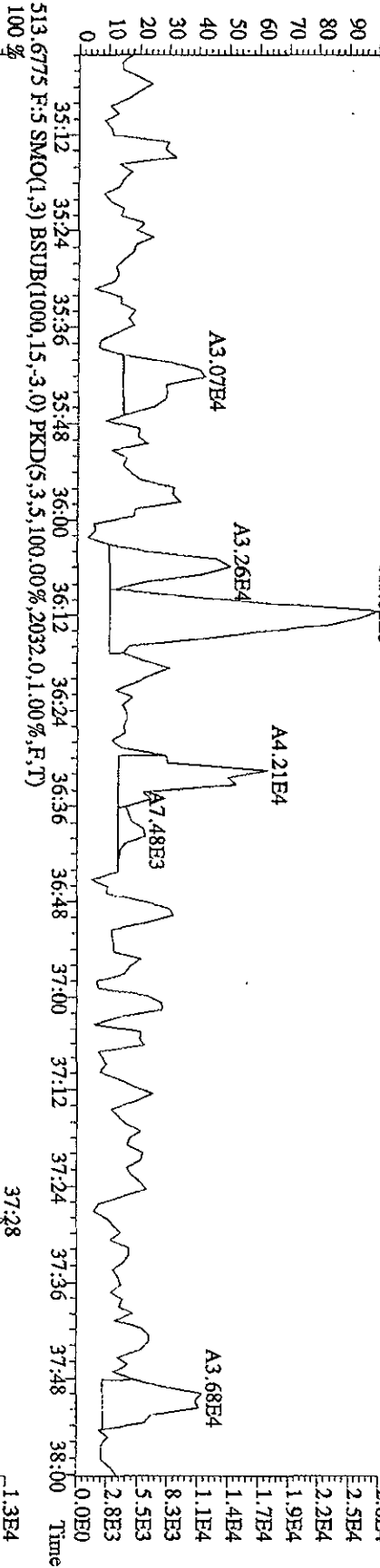
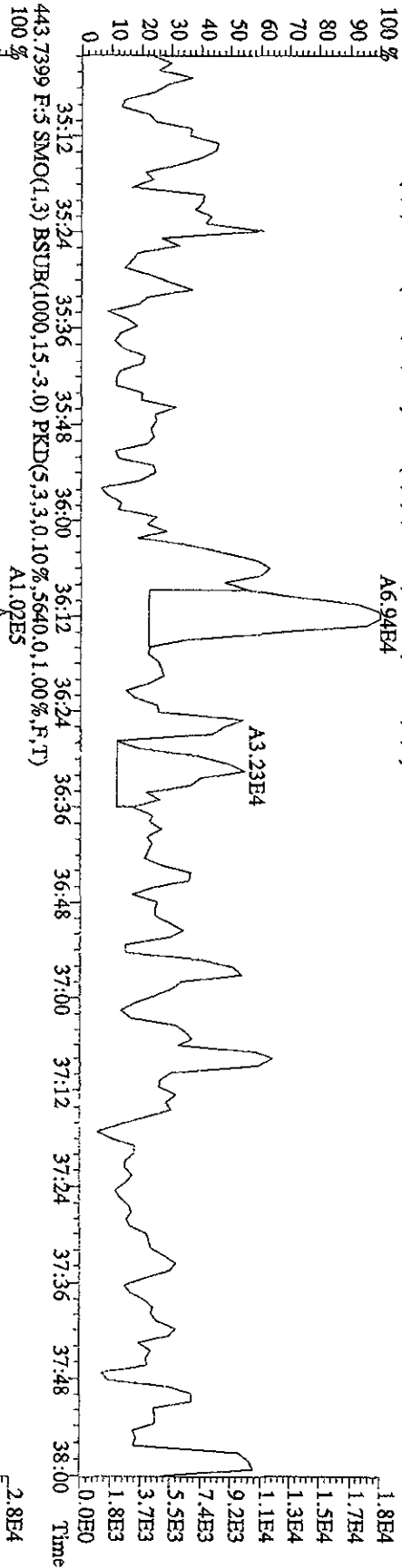
File: 14SEB101D5 #1-202 Acq: 14-SEP-2010 10:35:01 GC EI+ Voltage SIR 70SE  
 Sample#1 Text: CP0914 :DB-5 CPSM 3732-07 Exp: DIOXINRES  
 407.7818 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0,10%,10532,0,1,00%,F,TJ)  
 100%



File: 14SE101D5 #1-202 Acq:14-SEP-2010 10:35:01 GC EI+ Voltage SIR 70SE  
 Sample#1 Text:CP0914 :DB-5 CPSM 3732-07 Exp:DIOXINRES  
 423.7766 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,11300,0,1,00%,F,T)  
 100%

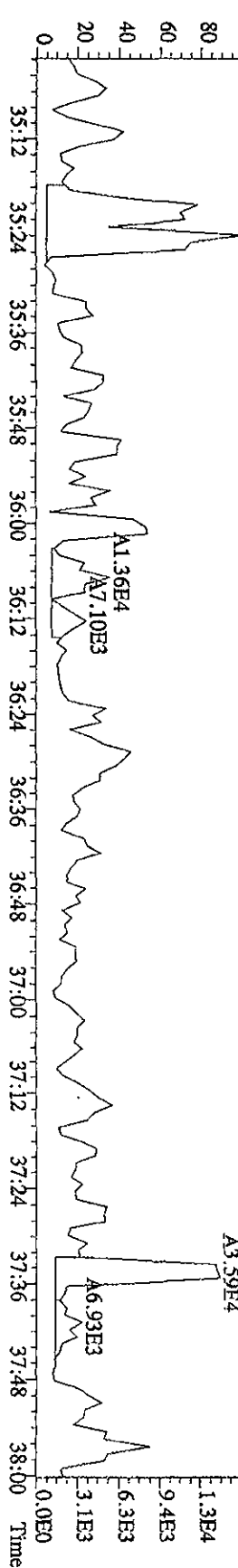
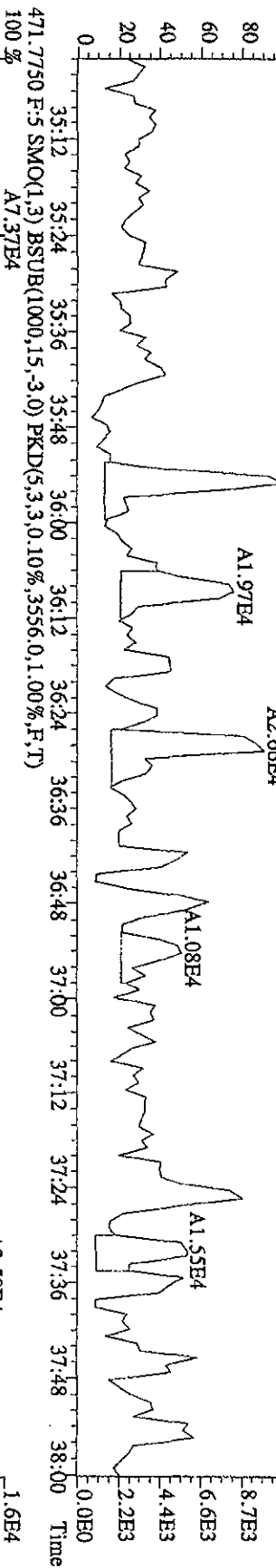
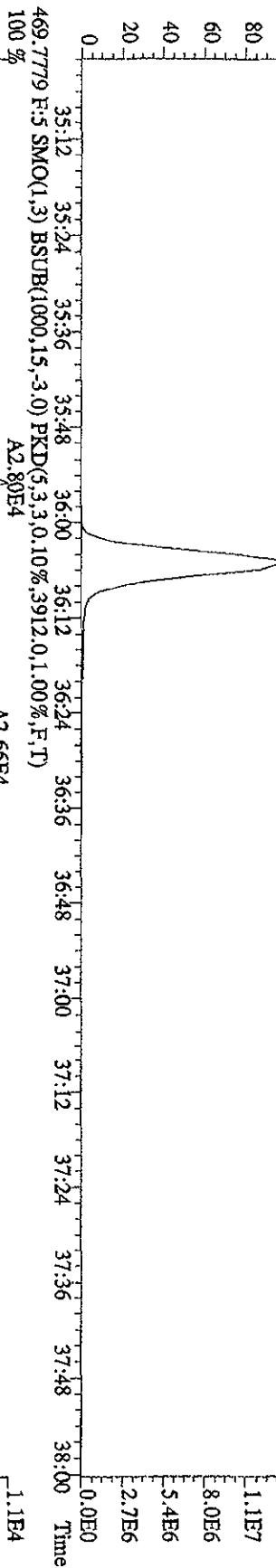
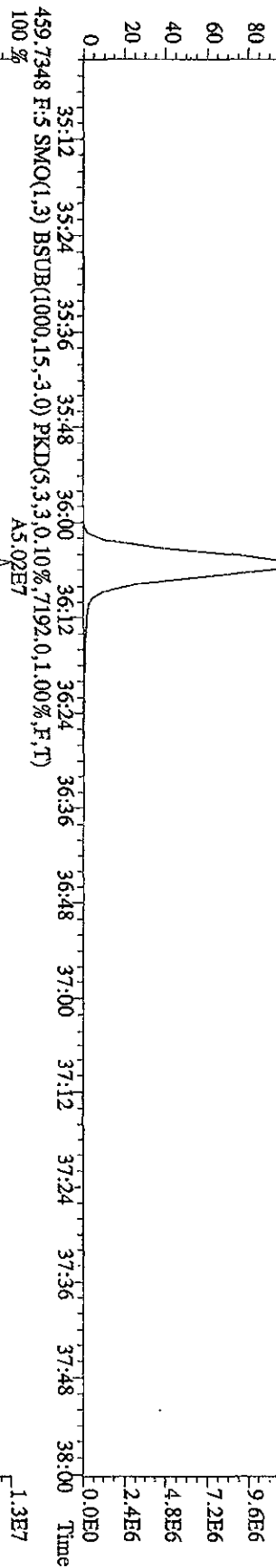


File:14SE101D5 #1-196 Acq:14-SEP-2010 10:35:01 GC EI+ Voltage SIR 70SE  
 Sample#1 Text:CP0914 :DB-5 CPSM 3732-07 Exp:DIOXINRES  
 441.7428 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,5588.0,1.00%,F,T)  
 100%

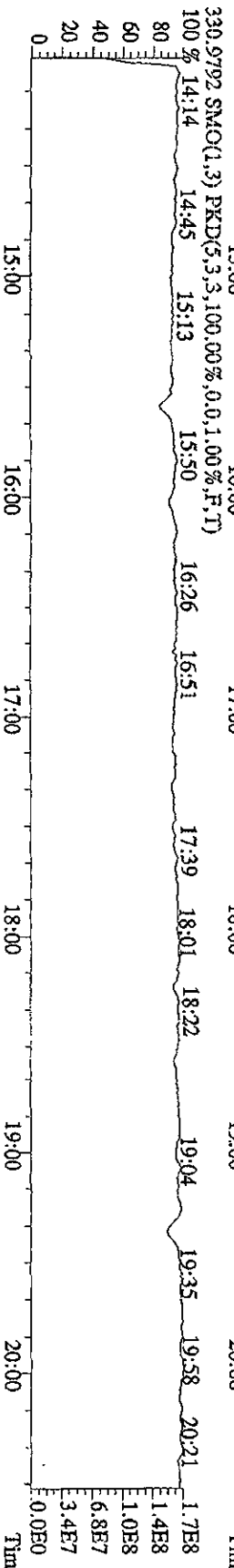
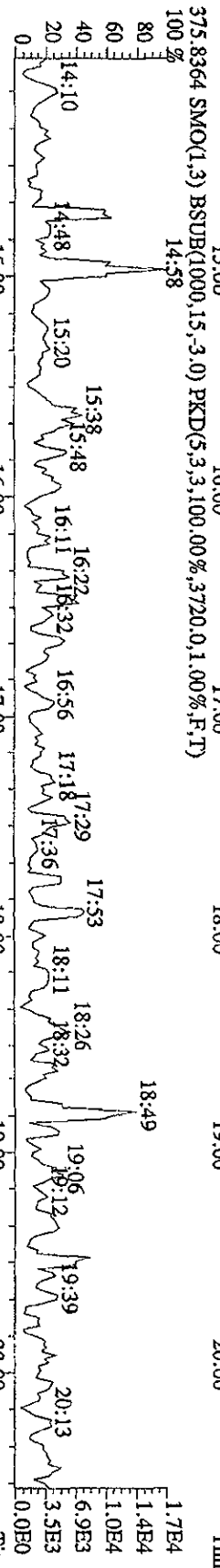
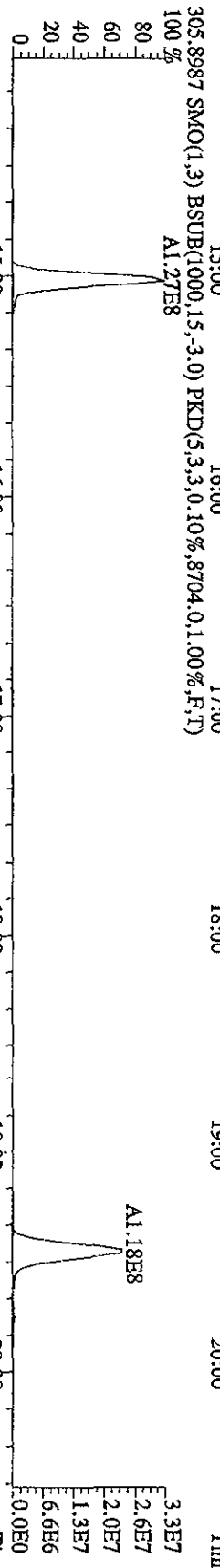
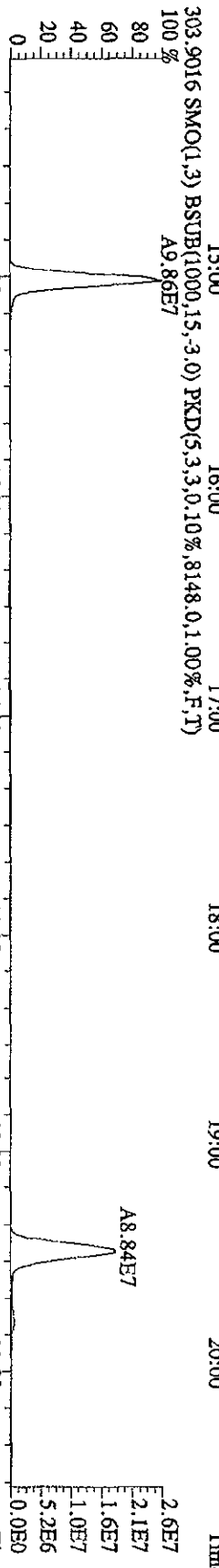
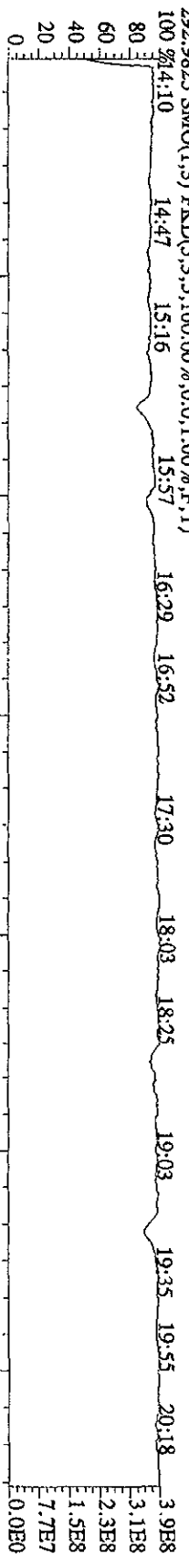




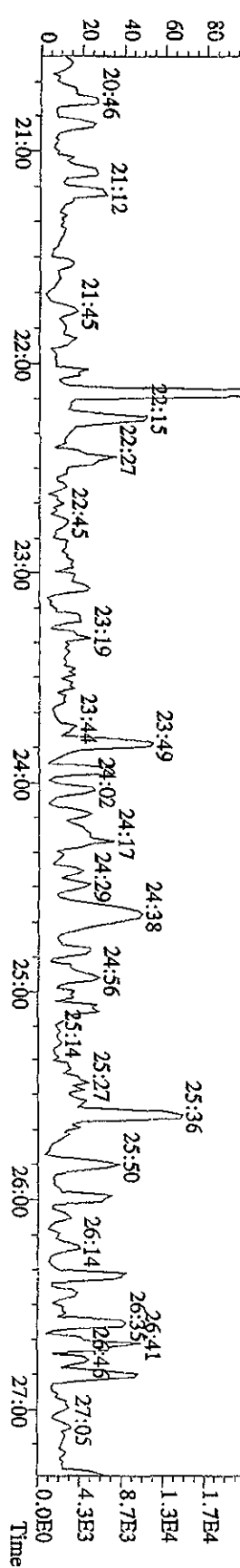
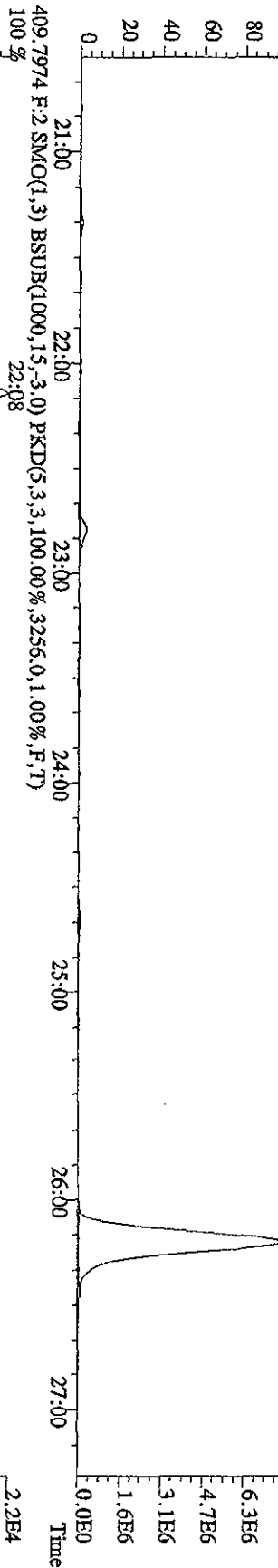
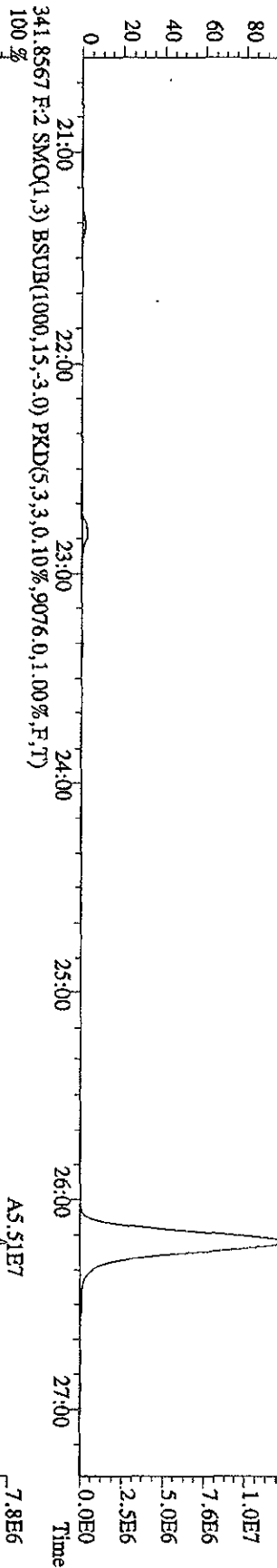
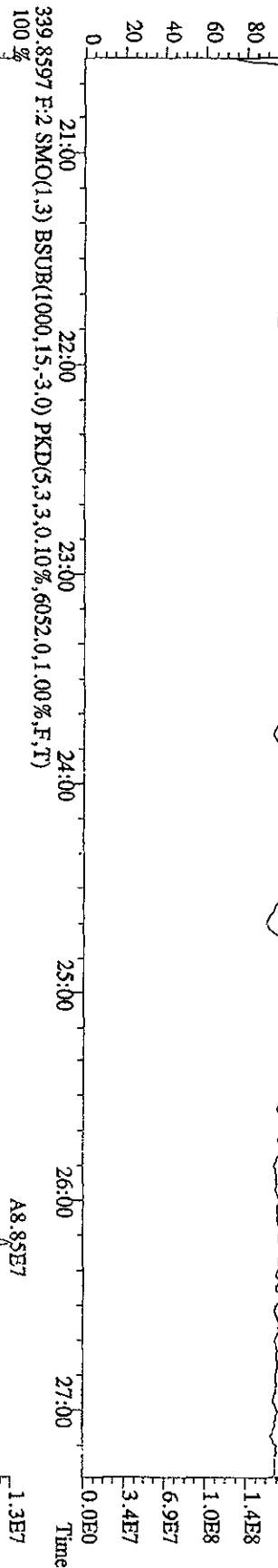
File:14SEI01D5 #1-196 Acq:14-SEP-2010 10:35:01 GC EI+ Voltage SIR 70SE  
 Sample#1 Text:CP0914 :DB-5 CPSM 3732-07 Exp.:DIOXINRES  
 457.7377 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKID(5,3,3,0.10%,5716.0,1.00%,F,T)  
 100 % A4.57E7



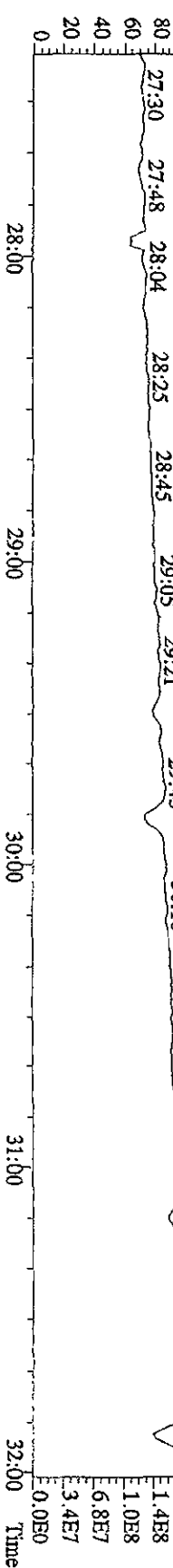
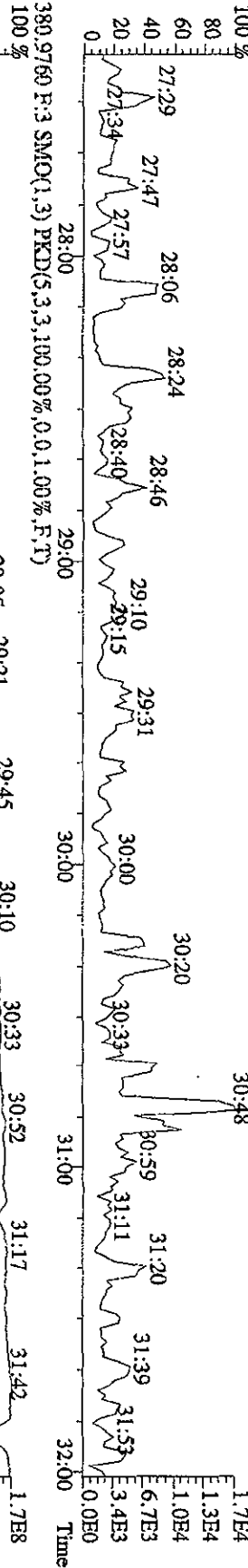
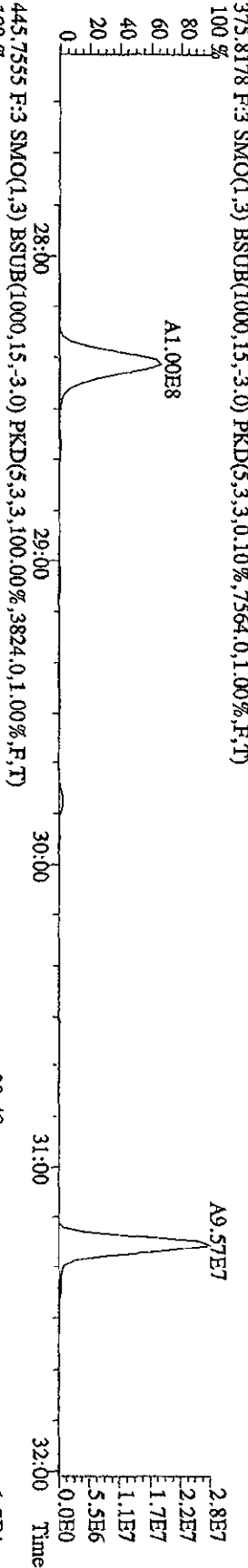
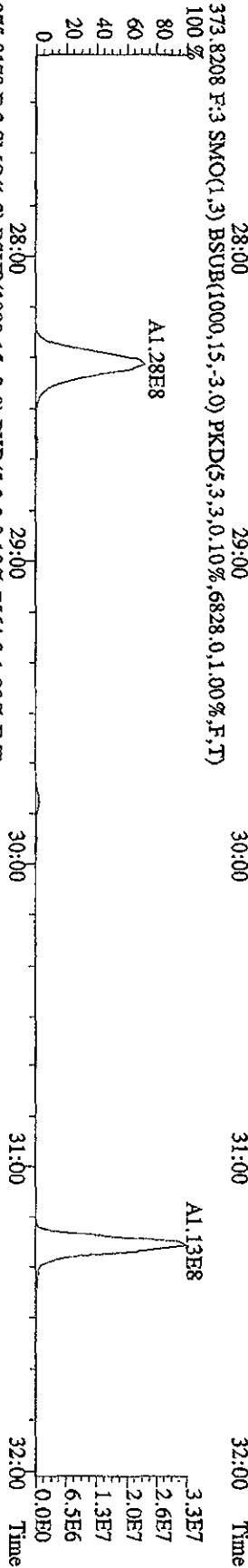
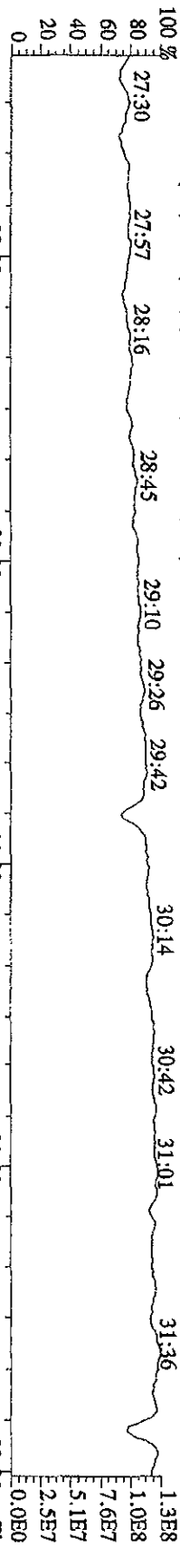
File: 14SE101D5 #1-383 Acq: 14-SEP-2010 10:35:01 GC EI+ Voltage: SIR 70SE  
 Sample#1 Text: CP0914 DB-5 CP5M 3732-07 Exp: DIOXINRES



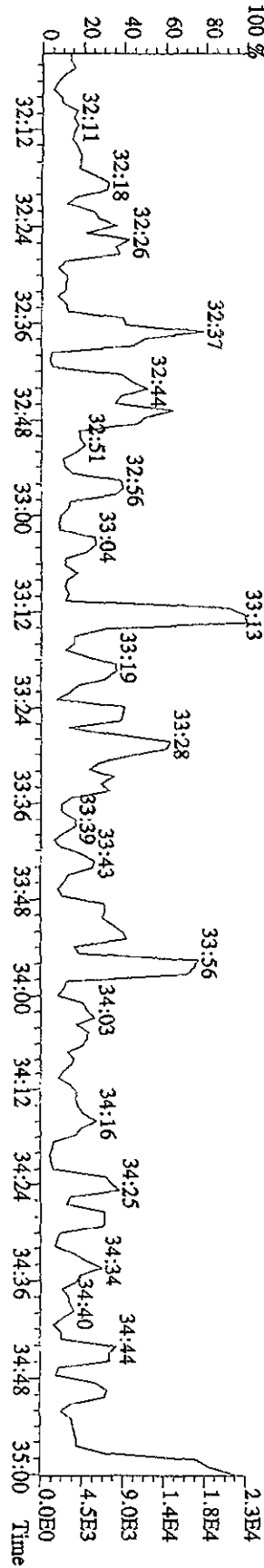
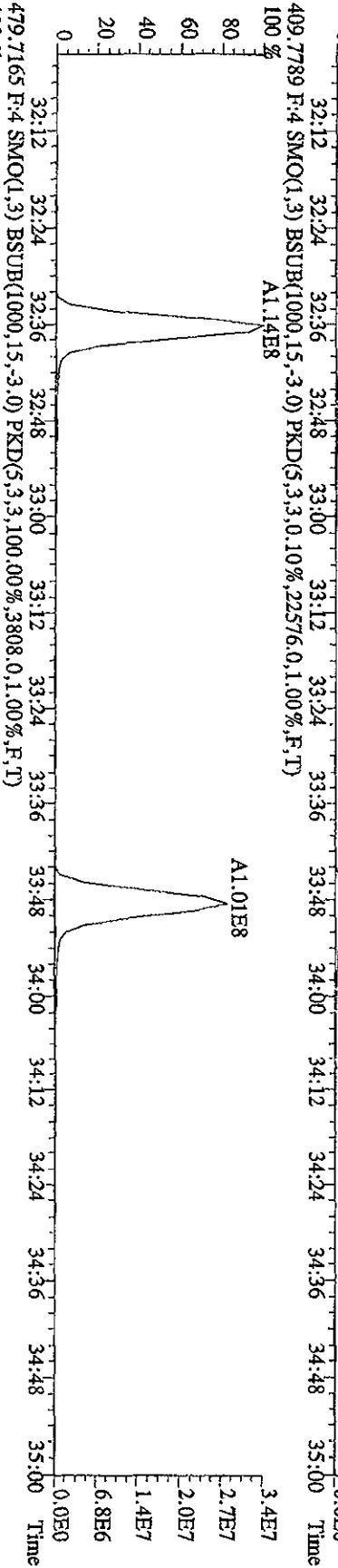
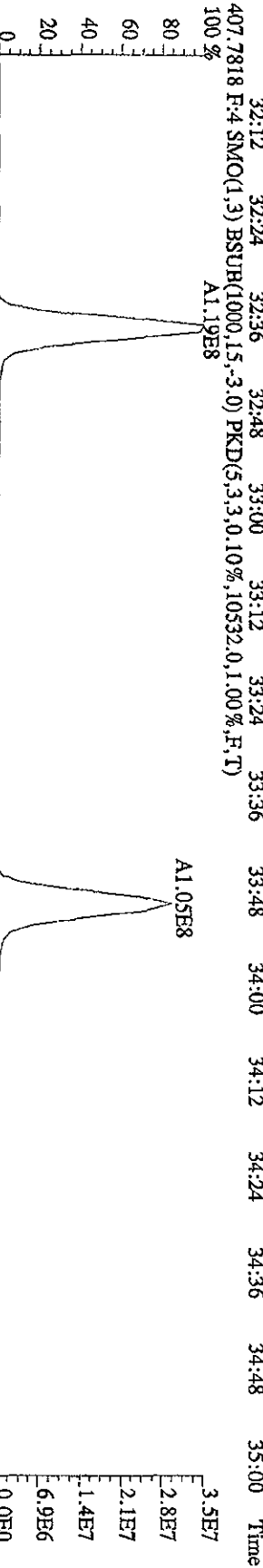
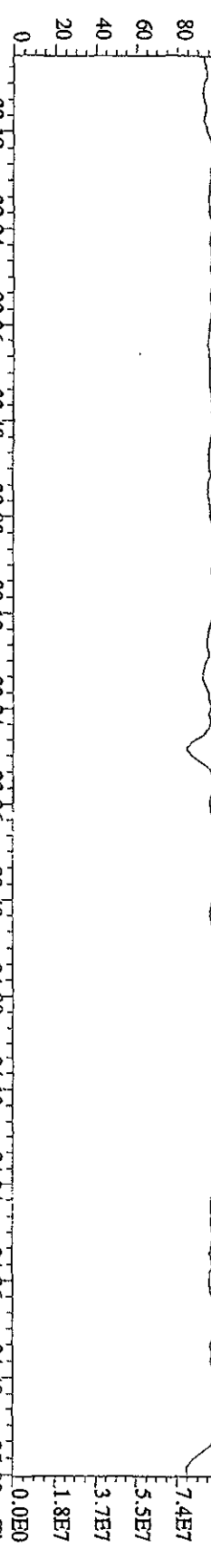
File: 14SEI01D5 #1-422 Acq: 14-SEP-2010 10:35:01 GC EI+ Voltage SIR 70SE  
 Sample#1 Text: CP0914 :DB-5 CPSM 3732-07 Exp: DIOXINRES  
 342.9792 F:2 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)  
 100% 21:11 21:39 22:26 22:54 23:29 24:00 24:24 25:02 25:25 26:00 26:28 27:00



File:14SEI01D5 #1-301 Acq:14-SEP-2010 10:35:01 GC-EL+ Voltage SIR 70SE  
 Sample#1 Text:CP0914 :DB-5 CP5M 3732-07 Exp.:DIOXINRES

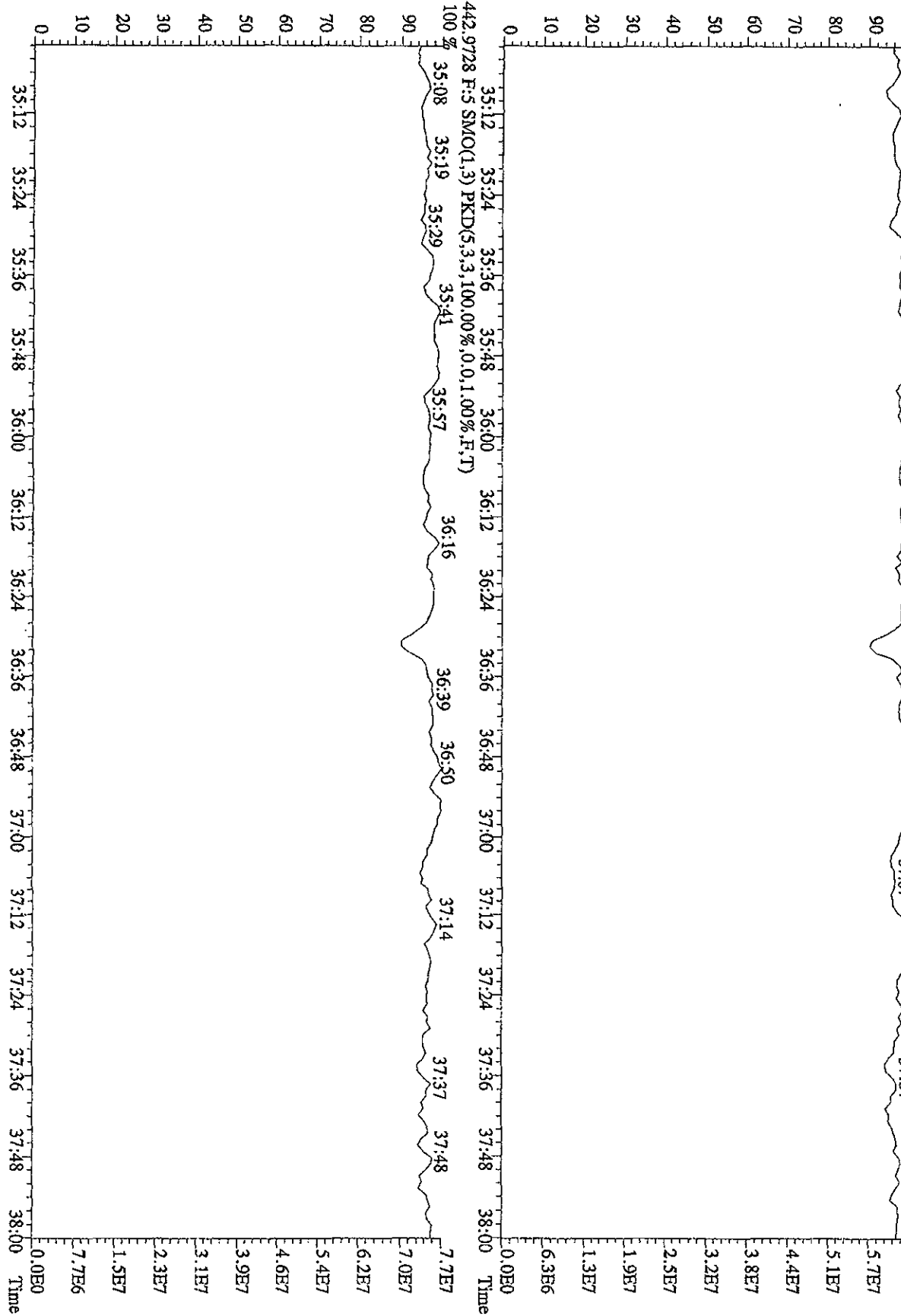


File: 14SE101D5 #1-202 Acq: 14-SEP-2010 10:35:01 GC EI + Voltage SIR 70SE  
 Sample#1 Text: CP0914 ;DB-5 CPSM 3732-07 Exp: DIOXINRES  
 430.9728 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File: 14SE101D5 #1-196 Acq:14-SEP-2010 10:35:01 GC EI+ Voltage SIR 70SE  
 Sample#1 Text:CP0914 :DB-5 CP5M 3732-07 Exp:DI0XINRES

454.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100 % 35:12 35:31 35:44 36:00 36:10 36:23



## Initial Calibration Checklist Dioxin Methods

ICAL ID (DB225, DB225AIR)0726105D2R *AK 9/15/10*

Method ID 8290, 1613B, 23, 0023A, T09, Date Scanned 8-13-10 *KSS 9/16/10*  
*TetraS, 8290A*

Column ID DB225 Instrument ID SD2

STD ID's ST0726 (A, B, C, E) <sup>D</sup> STD Solution 10DXN342, 10DXN335, 10DXN336, 10DXN337

GC Program DB225 Multiplier Setting 750

Analyzed By KSS Date Analyzed 7-26-10

Prepared By KSS, NK Date Prepared 7-26-10

Reviewed By KSS, MG Date Reviewed 7/26/10, 9/15/10

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

COMMENTS:

CS3 13C-1, 2, 3, 4 - TCDD RT = 15:10

\*Method 8290/T09/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: 21AP105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2R

ST0726A : CS-1 10DXN342 RI ST0726B : CS-2 10DXN335 ST0726C : CS-3 10DXN336  
 ST0726H : CS-4 10DXN337 ST0726D : CS-5 10DXN339

Name	Mean	S. D.	%RSD	26JL105D2				
				S6 RRF1	S5 RRF2	S7 RRF3	S9 RRF4	S8 RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	2.111	0.055	2.59 %	2.14	2.09	2.12	2.03	2.18
2,3,7,8-TCDF	1.056	0.035	3.32 %	1.11	1.04	1.02	1.06	1.04
13C-2,3,7,8-TCDD	0.885	0.025	2.78 %	0.91	0.87	0.91	0.86	0.87
2,3,7,8-TCDD	1.636	0.024	1.44 %	1.64	1.67	1.61	1.63	1.62
37Cl-2,3,7,8-TCDD	1.458	0.044	3.01 %	1.40	1.42	1.47	1.49	1.50



Run #1 Filename 26JL105D2 S: 6 I: 1  
Acquired: 26-JUL-10 11:25:40 Processed: 15-SEP-10 09:51:11  
Run: 21AP105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2R

## Comments:

Sample text: ST0726A :CS-1 10DXN342 RI

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	44088800	0.76 y	15:11	-	100.00	n
13C-2,3,7,8-TCDF	94137800	0.80 y	16:22	2.135	100.00	n
2,3,7,8-TCDF	523639	0.72 y	16:23	1.112	0.50	n
13C-2,3,7,8-TCDD	40331700	0.79 y	14:57	0.915	100.00	n
2,3,7,8-TCDD	331274	0.79 y	14:57	1.643	0.50	n
37Cl-2,3,7,8-TCDD	283070	1.00 y	14:57	1.404	0.50	n

Run #2    Filename 26JL105D2    S: 5    I: 1  
Acquired: 26-JUL-10    10:33:31    Processed: 15-SEP-10    09:51:11  
Run: 21AP105D2    Analyte: DB225AIR    Cal: DB225AIR0726105D2R  
Comments:  
Sample text: ST0726B :CS-2 10DXN335

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	163657200	0.78 y	15:09	-	100.00	n
13C-2,3,7,8-TCDF	341921000	0.80 y	16:22	2.089	100.00	n
2,3,7,8-TCDF	7128550	0.76 y	16:22	1.042	2.00	n
13C-2,3,7,8-TCDD	142455600	0.77 y	14:55	0.870	100.00	n
2,3,7,8-TCDD	4759860	0.82 y	14:57	1.671	2.00	n
37Cl-2,3,7,8-TCDD	4046840	1.00 y	14:57	1.420	2.00	n

Run #3    Filename 26JL105D2    S: 7    I: 1  
Acquired: 26-JUL-10 11:59:28    Processed: 15-SEP-10 09:51:12  
Run: 21AP105D2    Analyte: DB225AIR    Cal: DB225AIR0726105D2R  
Comments:  
Sample text: ST0726C :CS-3 10DXN336

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	128251800	0.79 y	15:10	-	100.00	n
13C-2,3,7,8-TCDF	272023000	0.80 y	16:22	2.121	100.00	n
2,3,7,8-TCDF	27756400	0.79 y	16:23	1.020	10.00	n
13C-2,3,7,8-TCDD	116269100	0.80 y	14:56	0.907	100.00	n
2,3,7,8-TCDD	18681120	0.82 y	14:57	1.607	10.00	n
37Cl-2,3,7,8-TCDD	17122860	1.00 y	14:58	1.473	10.00	n

Run #4    Filename 26JL105D2    S: 9    I: 1  
 Acquired: 26-JUL-10 13:07:04    Processed: 15-SEP-10 09:51:13  
 Run: 21AP105D2    Analyte: DB225AIR    Cal: DB225AIR0726105D2R  
 Comments:  
 Sample text: ST0726E :CS-4 10DXN337

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	123056800	0.79 y	15:08	-	100.00	n
13C-2,3,7,8-TCDF	250112000	0.82 y	16:21	2.032	100.00	n
2,3,7,8-TCDF	106424800	0.78 y	16:22	1.064	40.00	n
13C-2,3,7,8-TCDD	105587000	0.78 y	14:54	0.858	100.00	n
2,3,7,8-TCDD	69020900	0.83 y	14:55	1.634	40.00	n
37Cl-2,3,7,8-TCDD	62912400	1.00 y	14:55	1.490	40.00	n

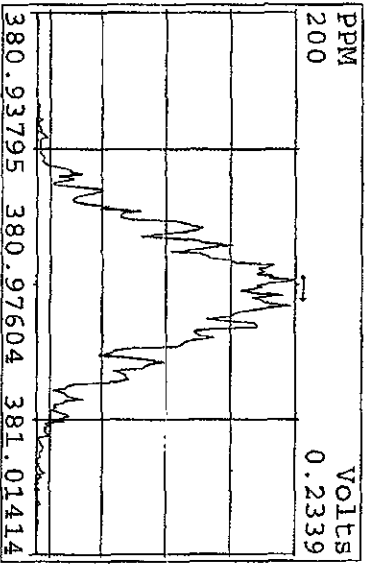
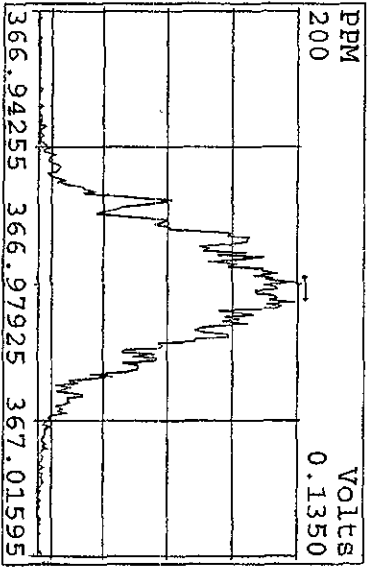
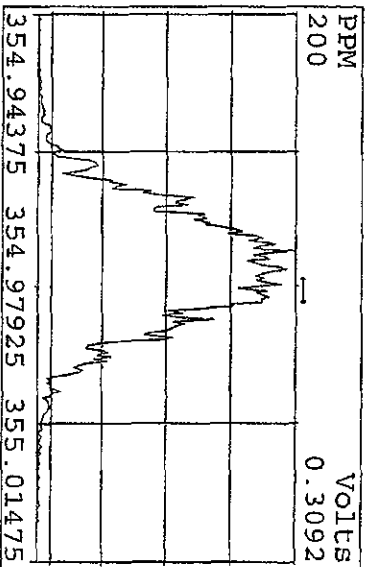
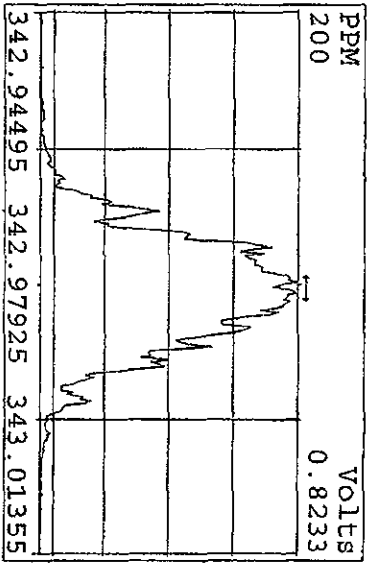
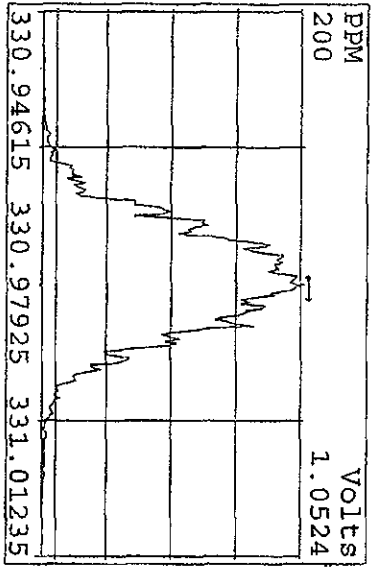
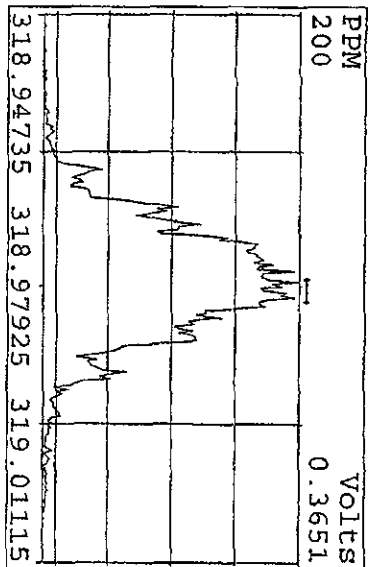
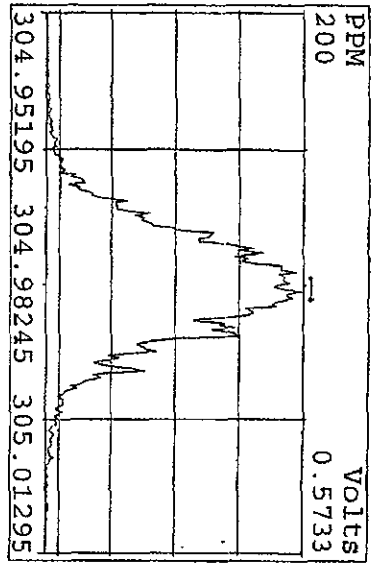
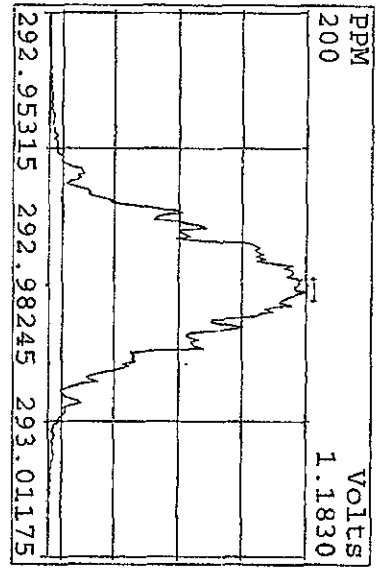
Run #5    Filename 26JL105D2    S: 8    I: 1  
Acquired: 26-JUL-10 12:33:16    Processed: 15-SEP-10 09:51:13  
Run: 21AP105D2    Analyte: DB225AIR    Cal: DB225AIR0726105D2R  
Comments:  
Sample text: ST0726D :CS-5 10DXN339

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	131444700	0.78 y	15:10	-	100.00	n
13C-2,3,7,8-TCDF	286396000	0.80 y	16:22	2.179	100.00	n
2,3,7,8-TCDF	596616000	0.78 y	16:23	1.042	200.00	n
13C-2,3,7,8-TCDD	114849700	0.78 y	14:56	0.874	100.00	n
2,3,7,8-TCDD	373245000	0.82 y	14:57	1.625	200.00	n
37Cl-2,3,7,8-TCDD	345562000	1.00 y	14:57	1.504	200.00	n

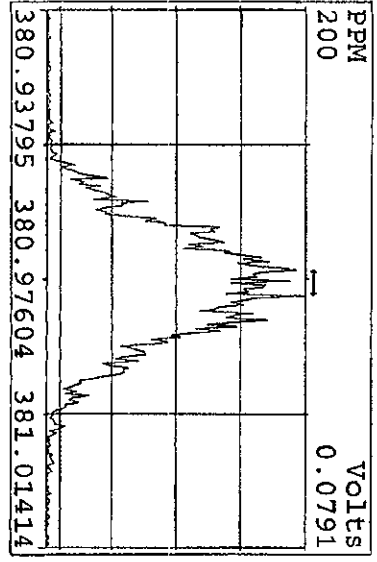
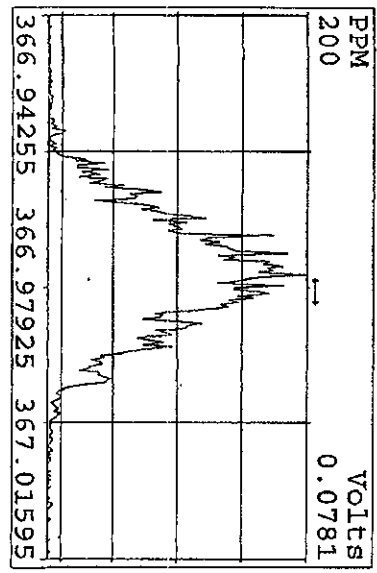
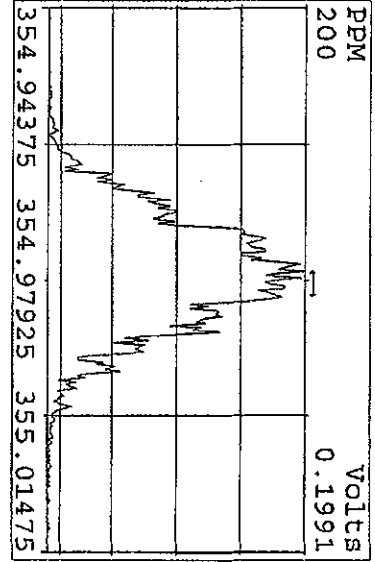
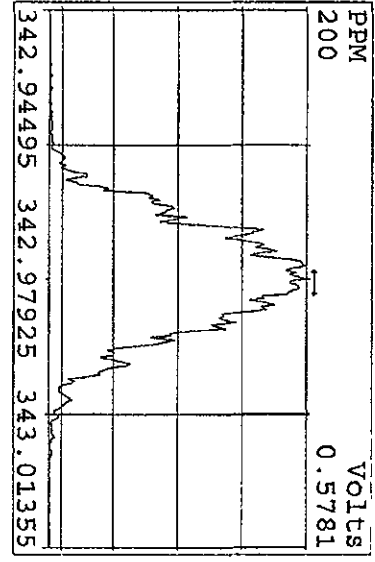
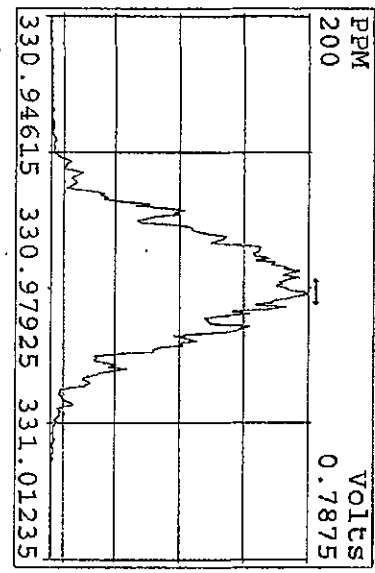
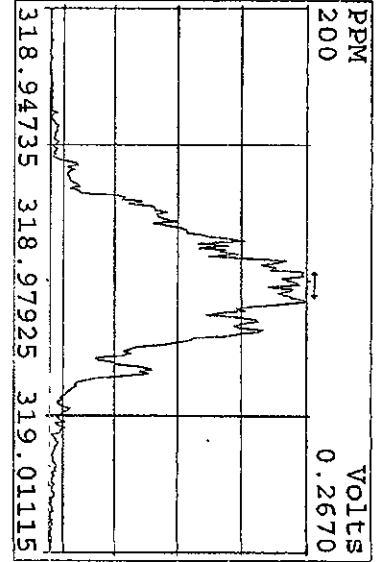
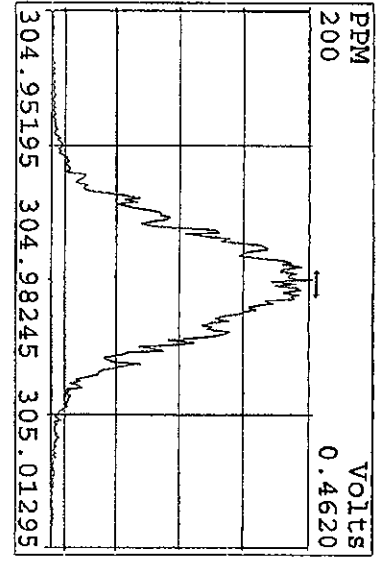
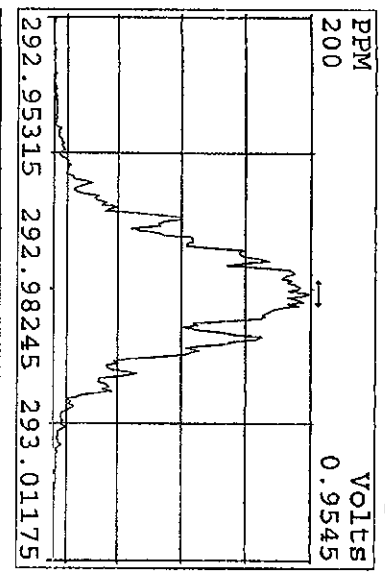
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
26JL105D2	1	CP0726	DB-225 CPSM 3732-06				1.0000	
26JL105D2	2	SB0726	Solvent Blank C-14				1.0000	
26JL105D2	3	ST0726	CS-0.2 10DXN333				1.0000	
26JL105D2	4	ST0726A	CS-1 10DXN342				1.0000	
26JL105D2	5	ST0726B	CS-2 10DXN335				1.0000	
26JL105D2	6	ST0726A	CS-1 10DXN342 RI				1.0000	
26JL105D2	7	ST0726C	CS-3 10DXN336				1.0000	
26JL105D2	8	ST0726D	CS-5 10DXN339				1.0000	
26JL105D2	9	ST0726E	CS-4 10DXN337				1.0000	
26JL105D2	10	ST0726F	2nd Source 10DXN340				1.0000	
26JL105D2	11						1.0000	
26JL105D2	12						1.0000	
26JL105D2	13						1.0000	
26JL105D2	14		KSS 07/26/10				1.0000	

*logfile v'd  
NK 7/26/10*

Peak Locate Examination: 26-JUL-2010:08:17 File: 26JUL105D2  
Experiment: DB225RES Function: 1 Reference: PFK

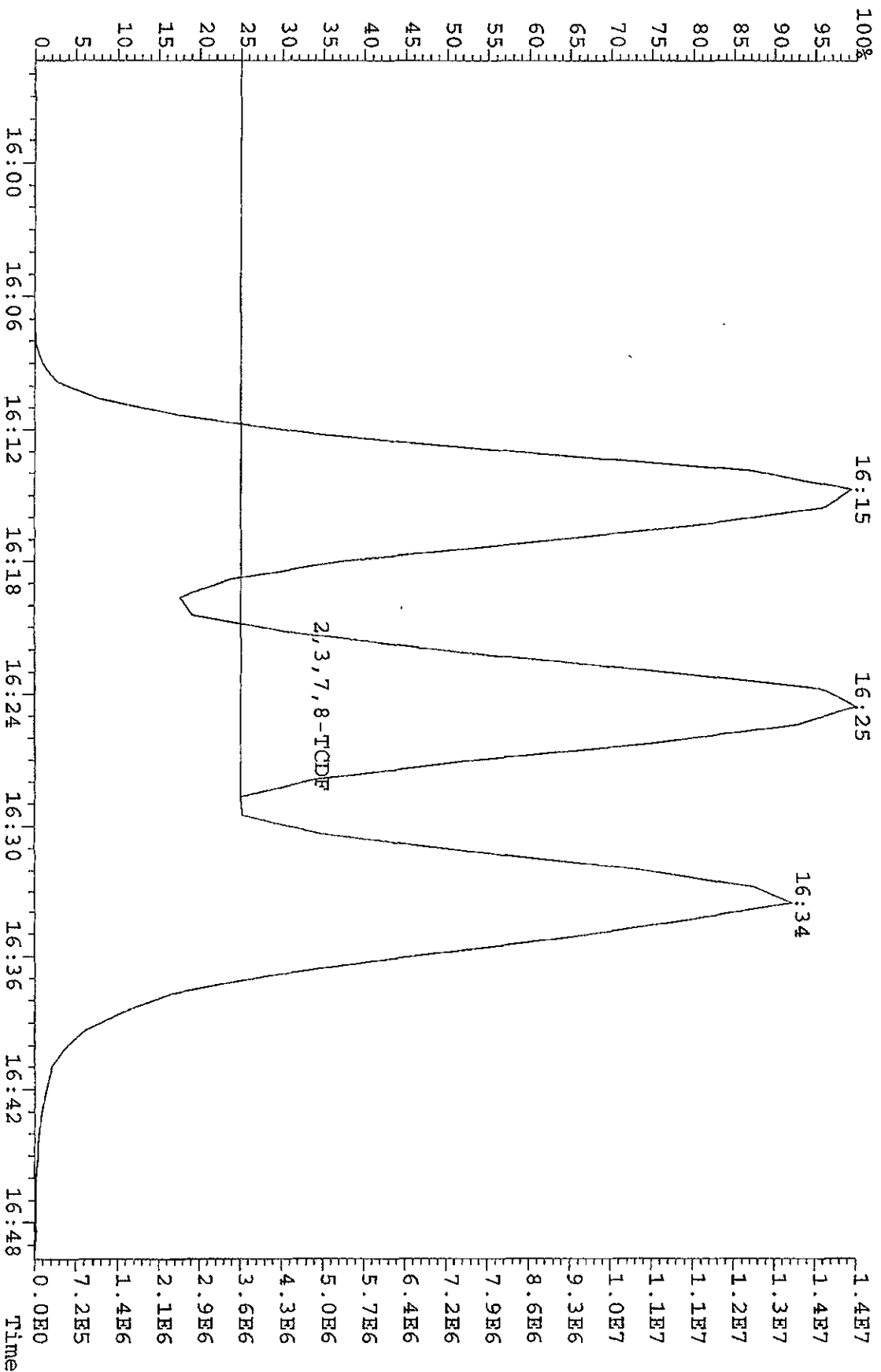


Peak Locate Examination: 26-JUL-2010:14:43 File: 26JUL105D2ENDRES  
 Experiment: DB225RES Function: 1 Reference: PFK





File: 26JUL105D2 #1-720 Acq: 26-JUL-2010 08:18:34 GC FI+ Voltage SIR 70SE  
 303.9016 BSUB(128,15,-3.0) Exp: DB225RES Noise: 1410



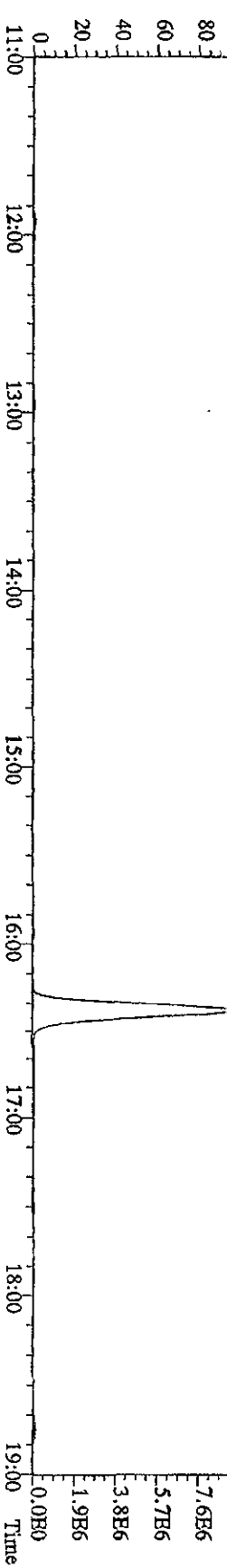
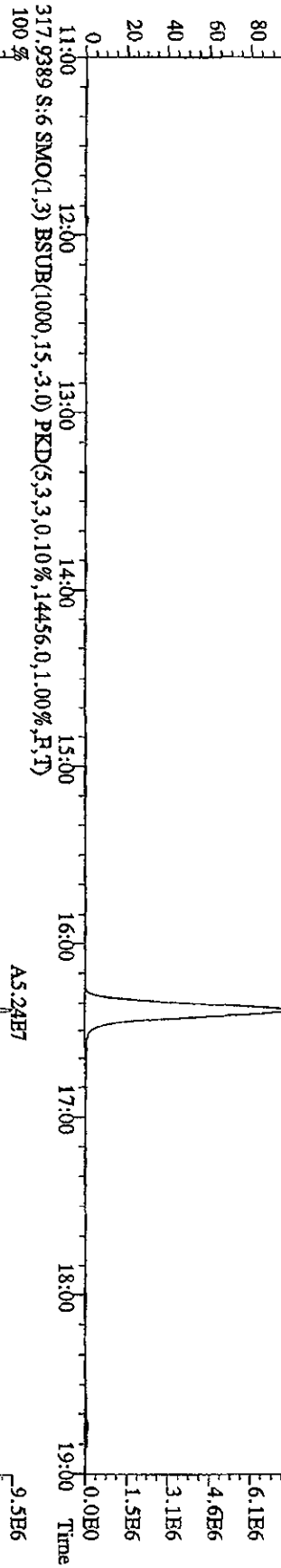
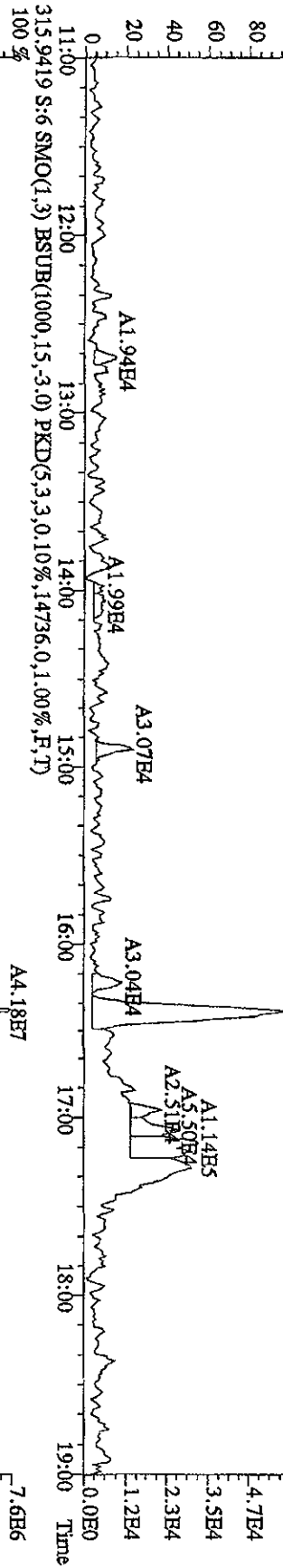
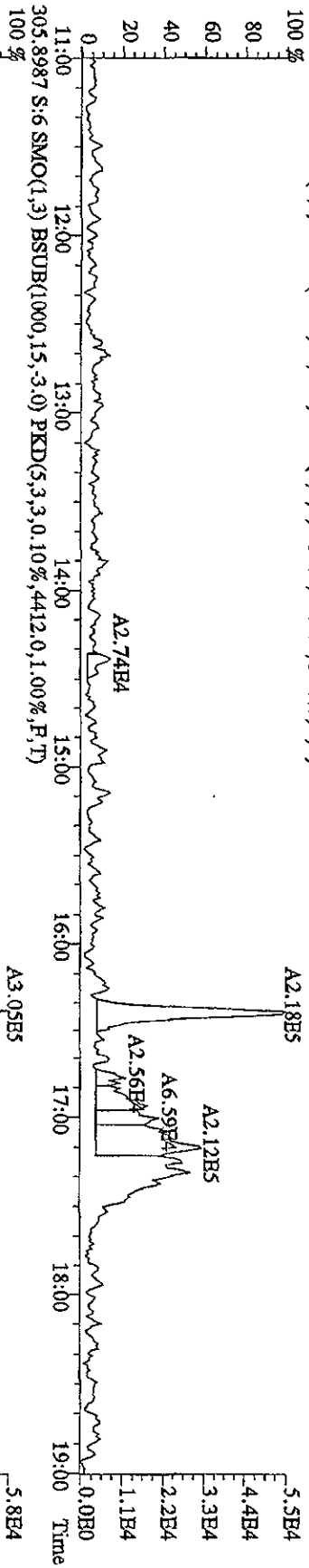
Run text: ST0726F                    Sample text: ST0726F :2nd Source 10DXN340  
 Run #6 Filename: 26JL105D2 S: 10 I: 1                    Results: 26JL105D2DB225  
 Acquired: 26-JUL-10 13:40:52                    Processed: 26-JUL-10 14:33:34  
 Run: 26JL105D2                    Analyte: DB225                    Cal: DB2250726105D2  
 Factor 1: 800.000                    Factor 2: 20.000                    Sample size: 1.000000

*Spiked @ 200*

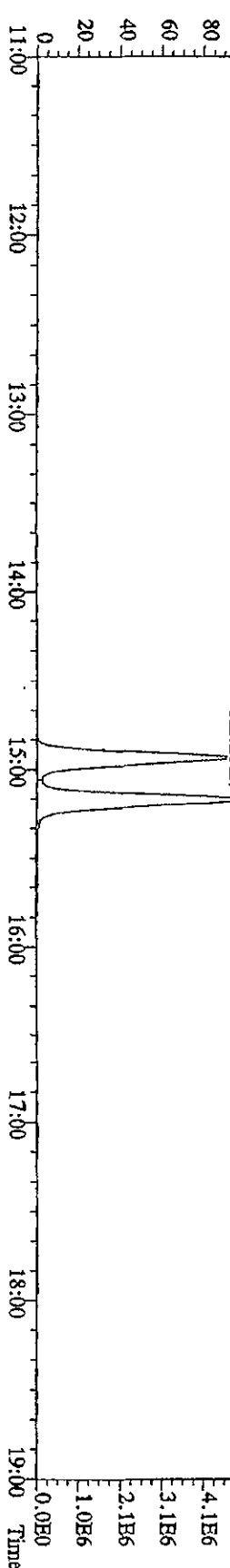
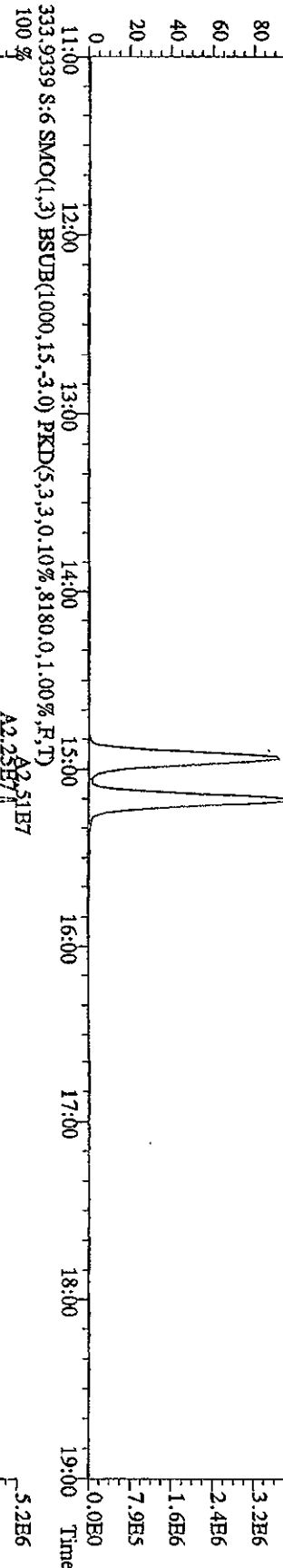
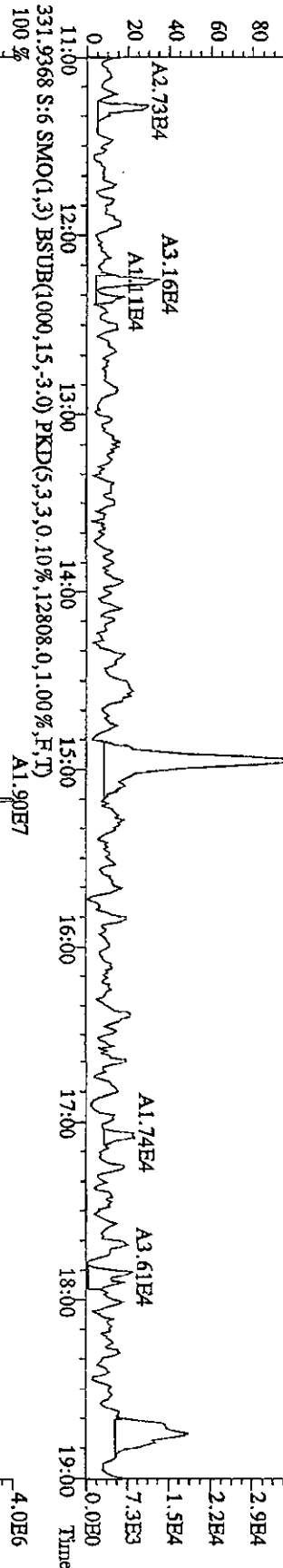
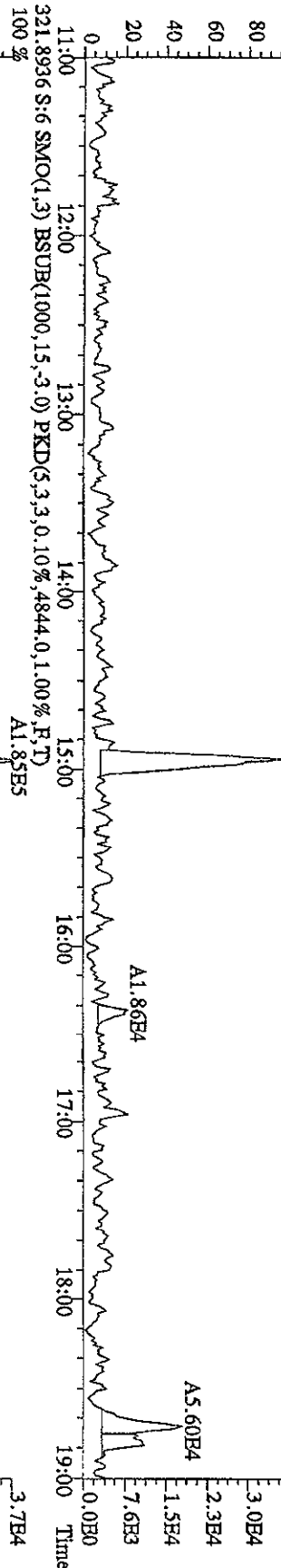
*7/26/10  
KSS*

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	117485800	0.79 y	15:10	-	99.48	-	-	n
13C-2,3,7,8-TCDF	262969000	0.78 y	16:22	2.11	2120.25	5.39	106.0	n
2,3,7,8-TCDF	25049900	0.79 y	16:23	1.06	180.39 ✓ 90%	1.31	-	n
13C-2,3,7,8-TCDD	111918800	0.79 y	14:56	0.88	2153.49	7.15	107.7	n
2,3,7,8-TCDD	17243860	0.81 y	14:57	1.64	188.37 ✓ 94%	1.74	-	n
37Cl-2,3,7,8-TCDD	31323200	1.00 y	14:57	1.29	413.47	2.68	103.4	n

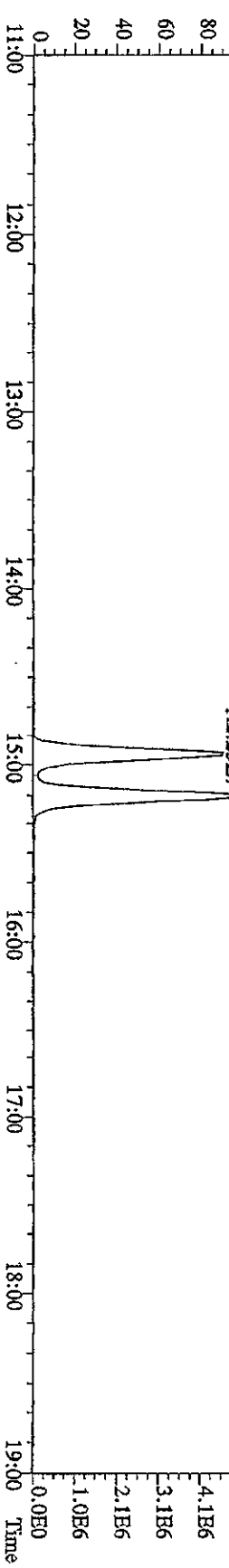
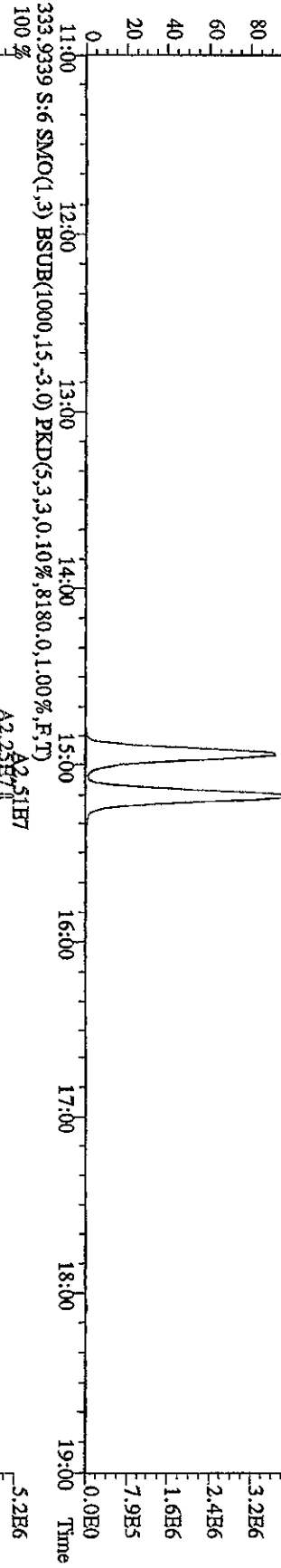
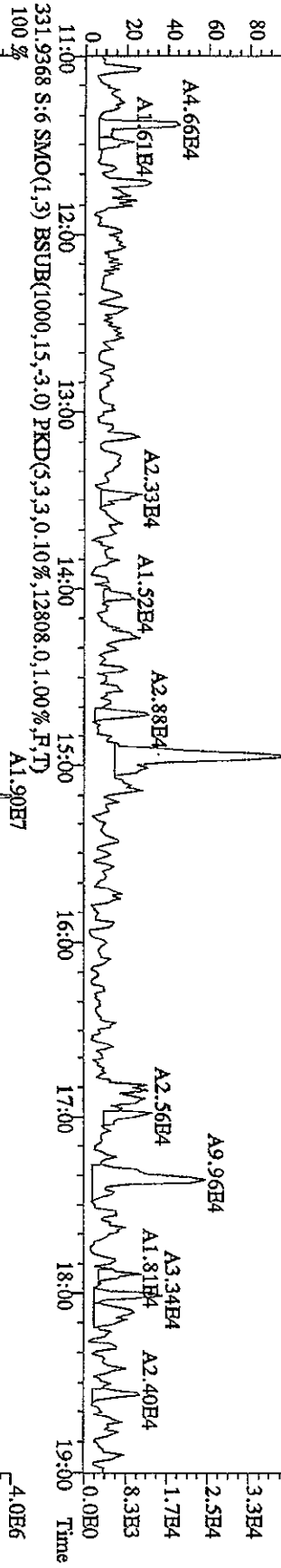
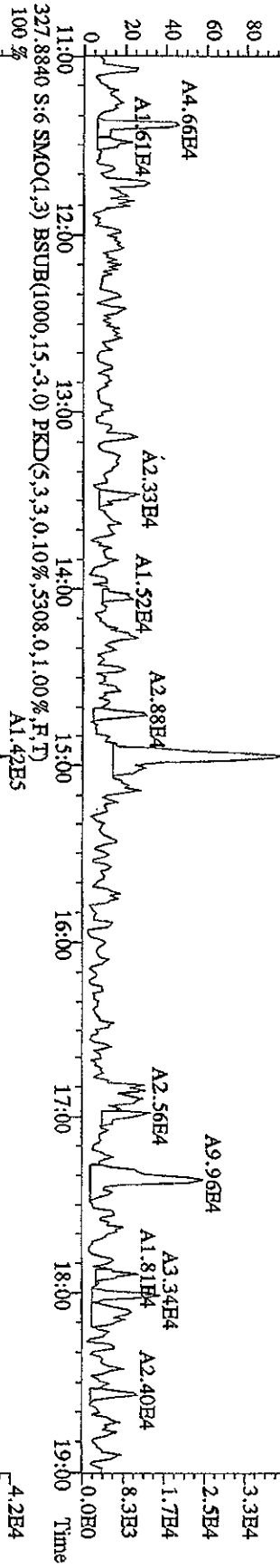
File:261L105D2 #1-1242 Acq:26-JUL-2010 11:25:40 GC BI+ Voltage SIR 70SE  
 Sample#6 Text:ST0726A :CS-1.10DXN342.RI Exp:DB225RBS  
 305.8987 S:6 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4412.0,1.00%,F,T)  
 100 %



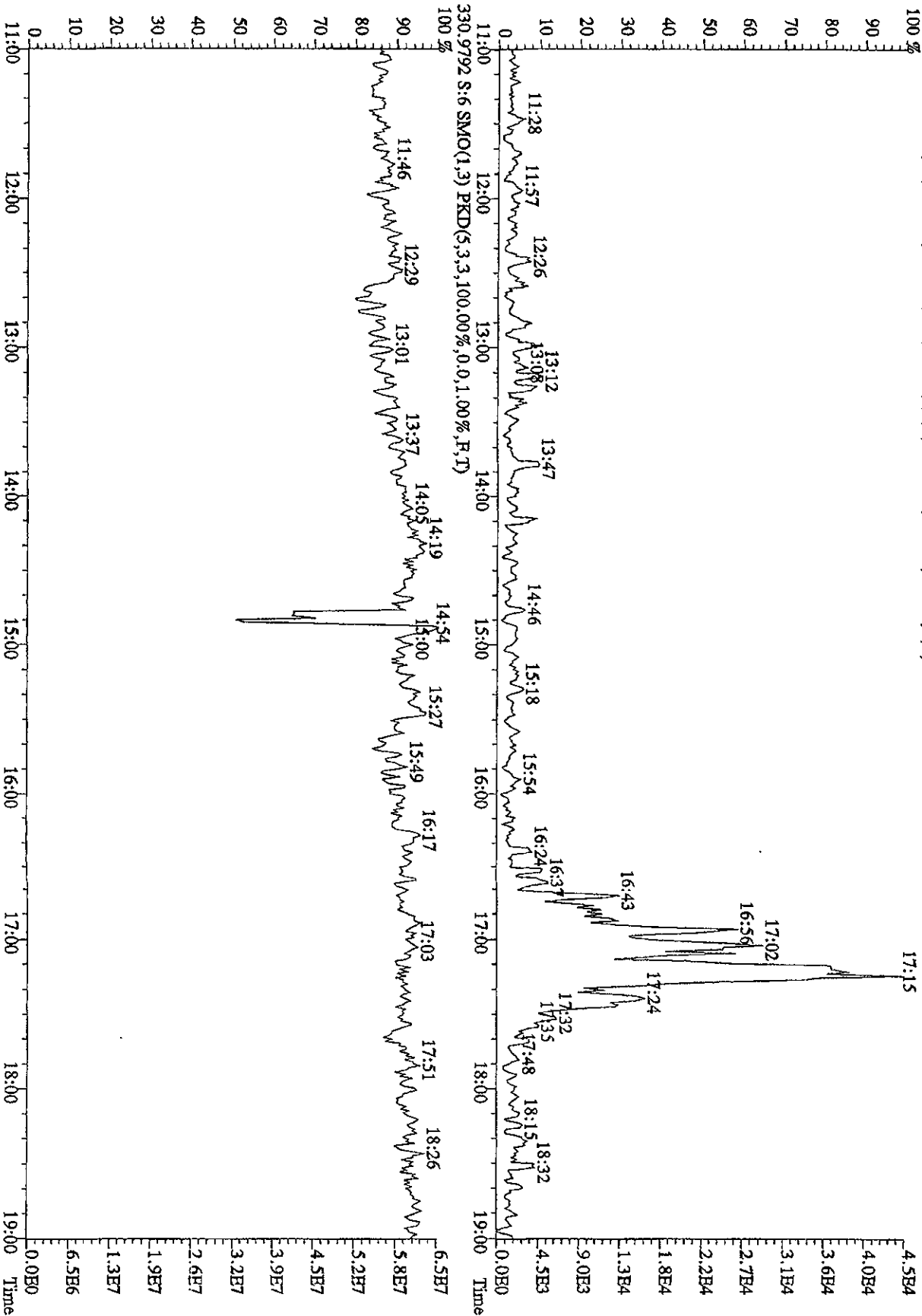
File:26IL105D2 #1-1242 Acq:26-JUL-2010 11:25:40 GC EI+ Voltage STR 70SE  
 Sample#6 Text:ST0726A :CS-1 10DXN342 RI Exp:DB25RES  
 319.8965 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0.10%,.3896,0.1,0.0%,F,T) A1.46B5



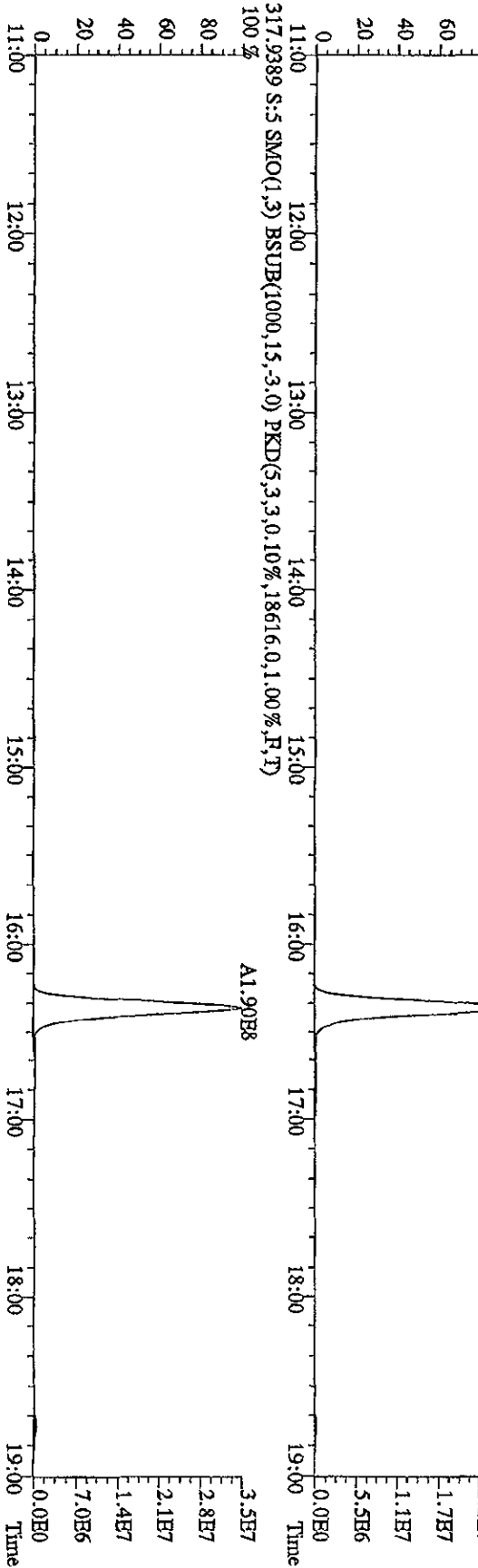
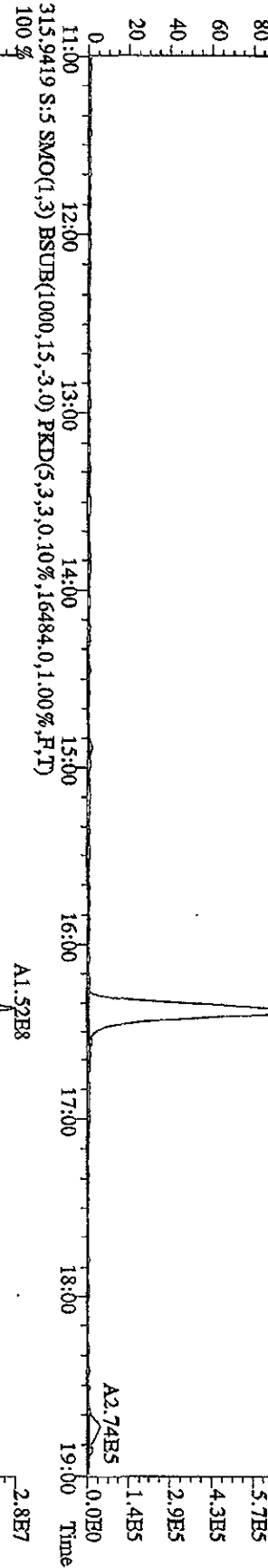
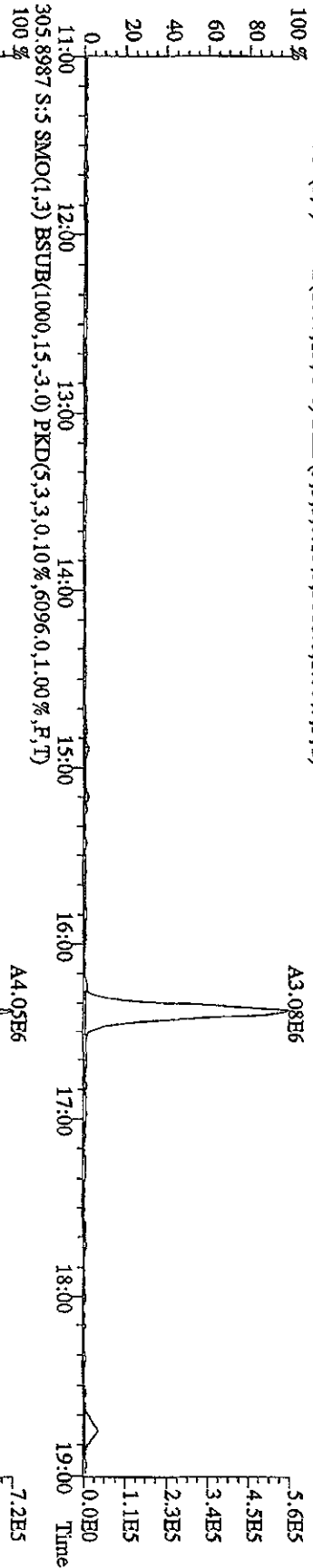
File:261L105D2 #1-1242 Acq:26-JUL-2010 11:25:40 GC EI+ Voltage STR 70SE  
 Sample#6 Text:ST0726A :CS-1.10DXN342.RI Exp:DB25RBS  
 327.8840 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.5308,0.1,0.00%,F,T)  
 100%



File:261L105D2 #1-1242 Acq:26-JUL-2010 11:25:40 GC EI+ Voltage SIR 70SE  
 Sample#6 Text:ST0726A :CS-1 10DXN342 RI Exp:DB225RES  
 375.8364 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1976.0,1.00%,F,T)



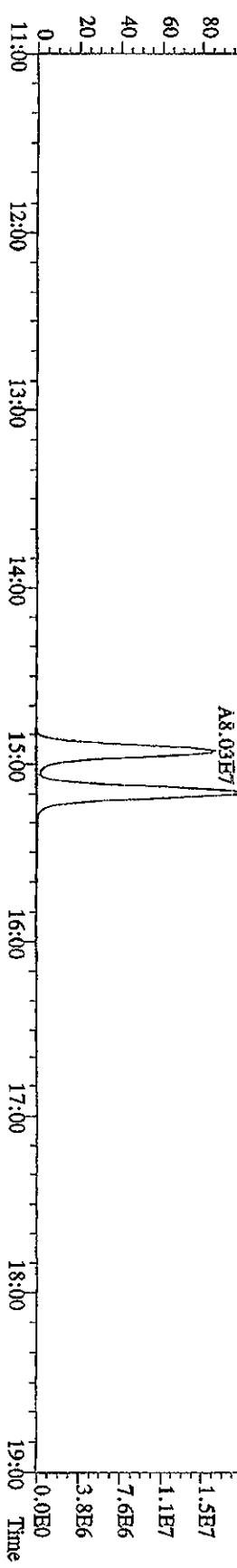
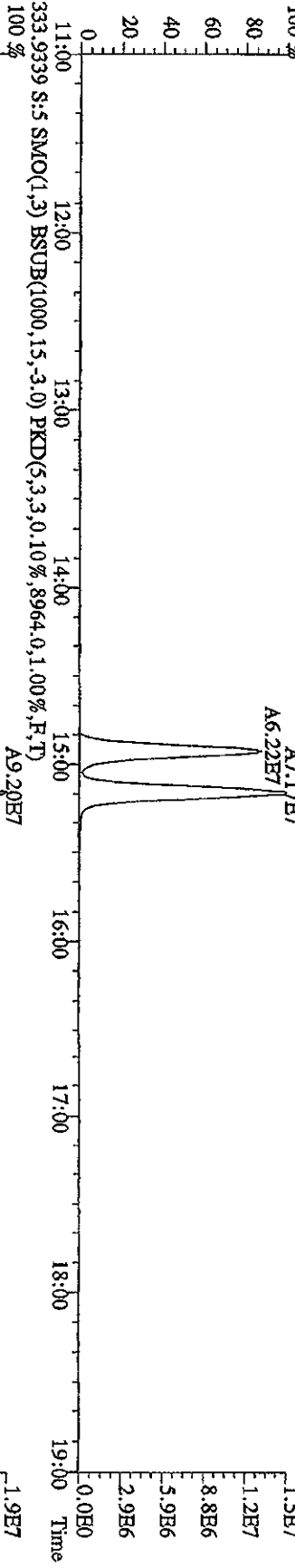
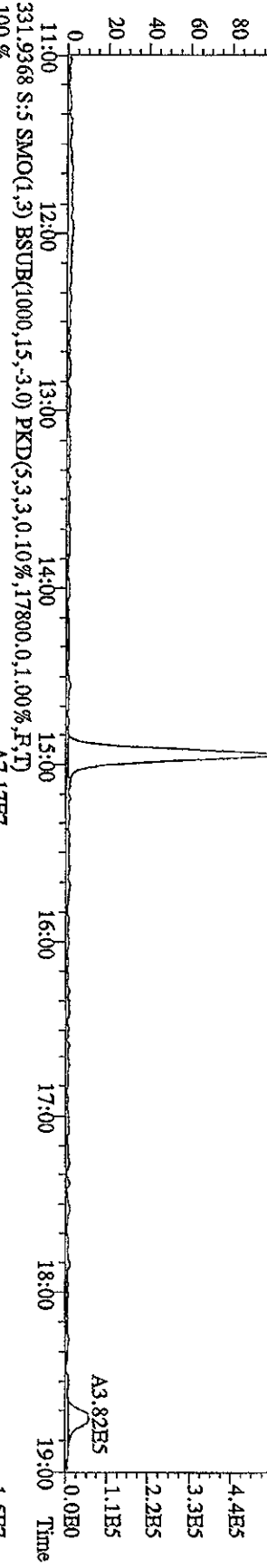
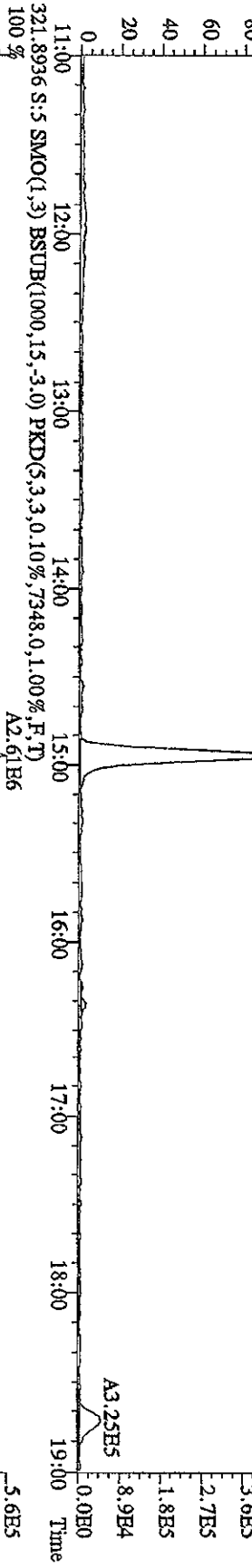
File:26TL105D2 #1-1242 Acq:26-JUL-2010 10:33:31 GC BI+ Voltage SIR 70SB  
 Sample#5 Text:ST0726B :CS-2 10DXN335 Exp:DB225RES  
 303.9016 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5060.0,1.00%,F,T)



File:26IL105D2 #1-1242 Acq:26-JUL-2010 10:33:31 GC EI+ Voltage 51R 70SE

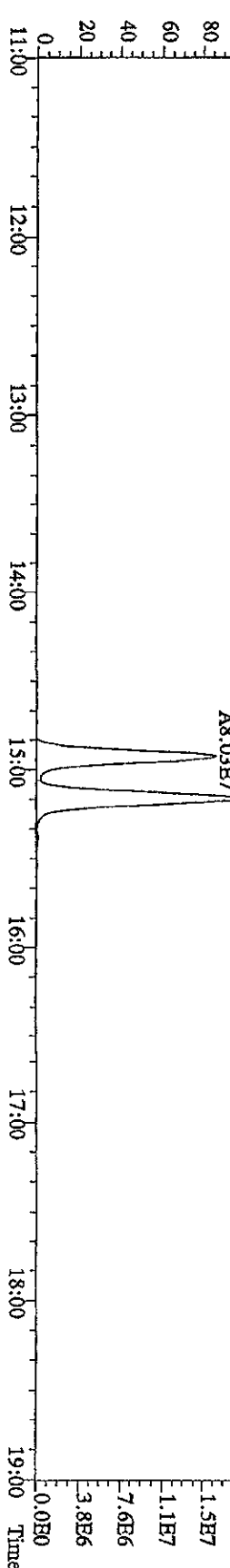
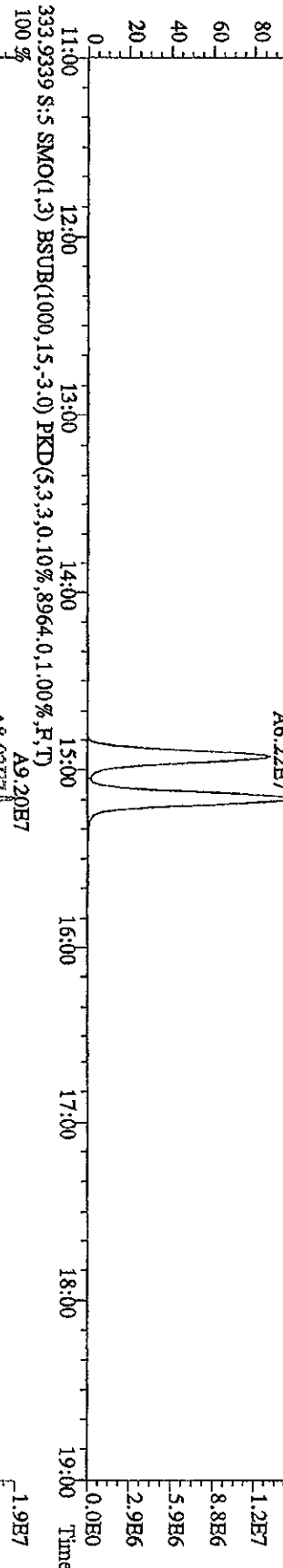
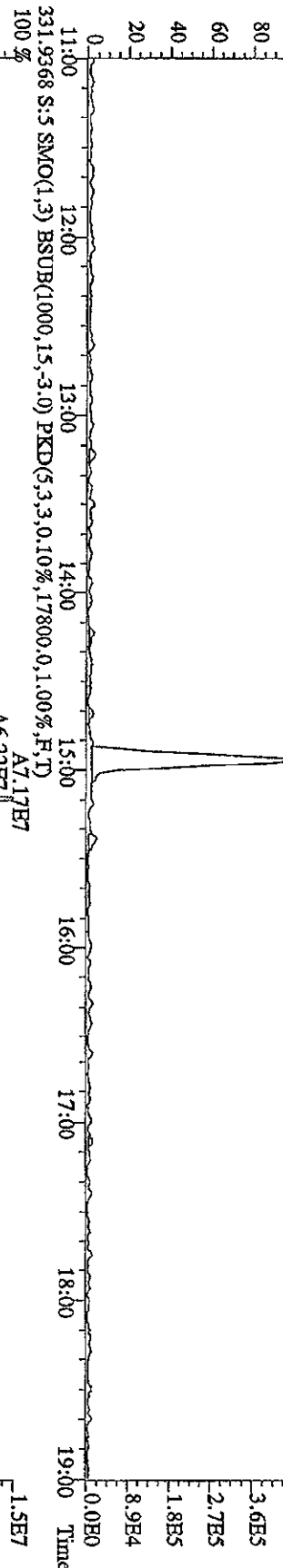
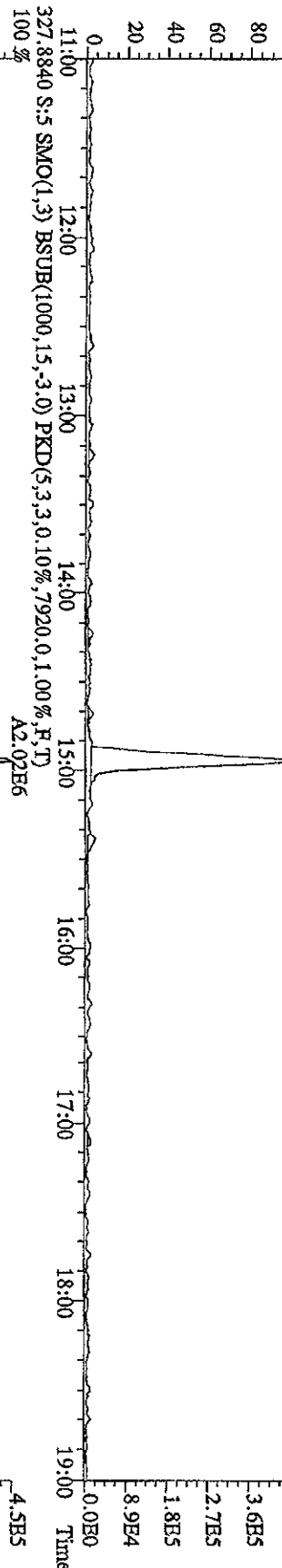
Sample#5 Text:ST0726B :CS-2 10DXN335 Exp:DB225RES

319.8965 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5400.0,1.00%,F,T)

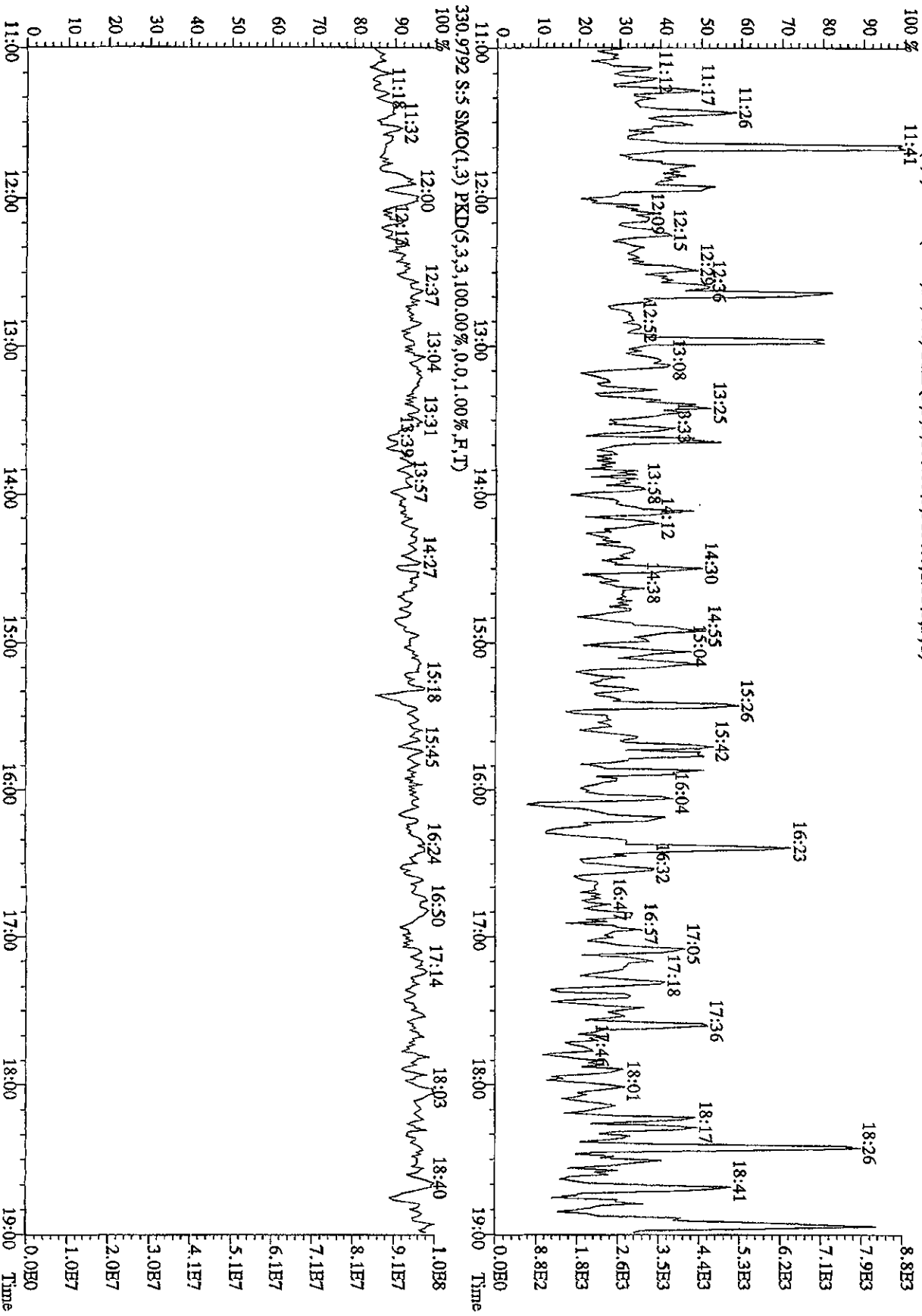




File:26L105D2 #1-1242 Acq:26-JUL-2010 10:33:31 GC EI+ Voltage SIR 70SE  
 Sample#5 Text:ST0726B :CS-2 10DXN335 Exp:DH225RBS  
 327.8840 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7920,0,1.00%,F,T)  
 100% A2.02B6

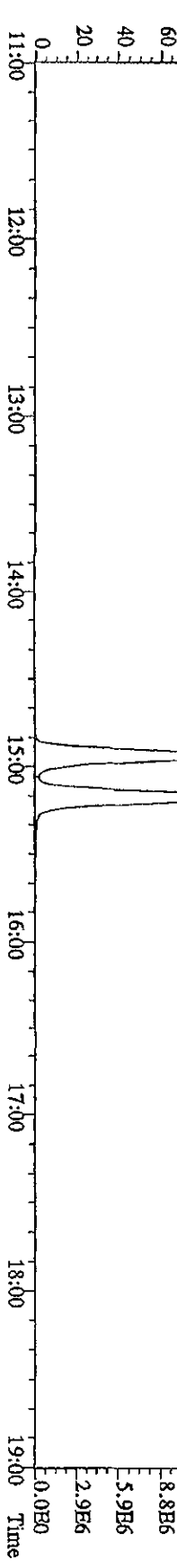
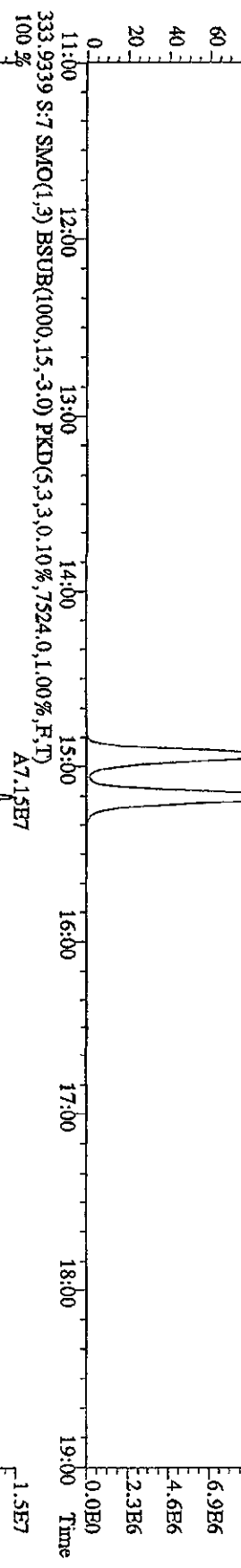
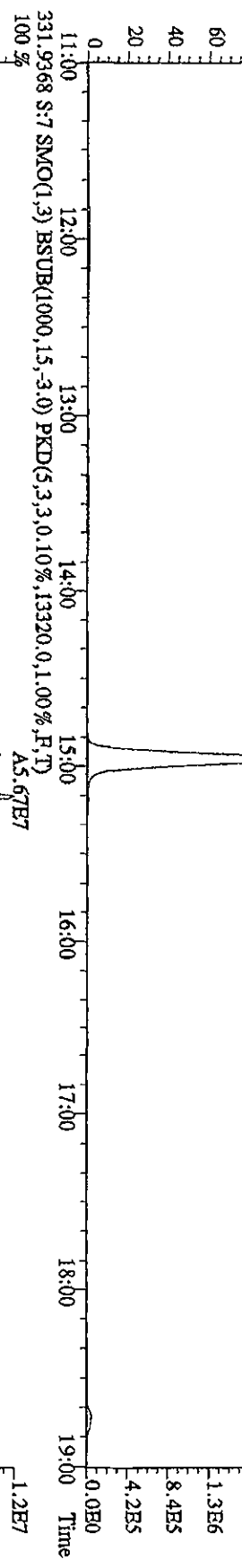
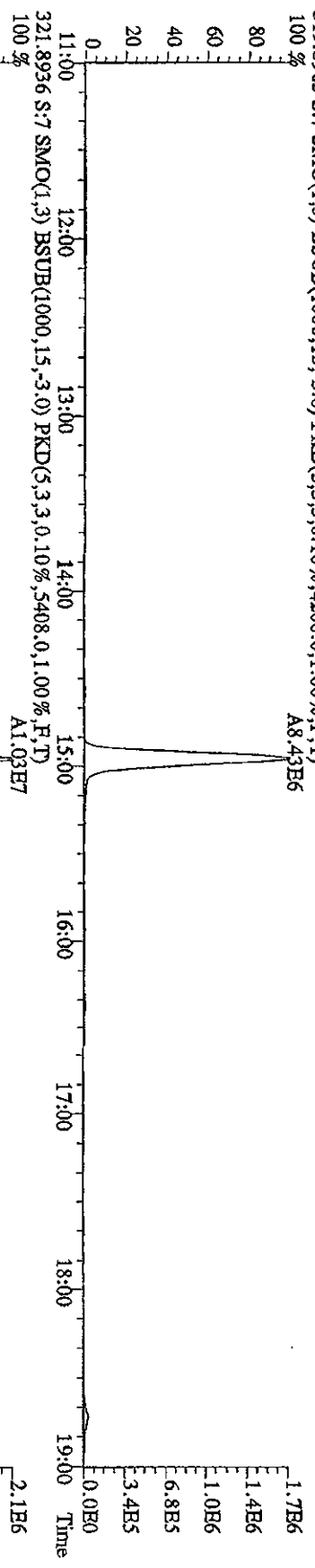


File: 26L105D2 #1-1242 Acq: 26-JUL-2010 10:33:31 GC EI+ Voltage SIR 70SB  
 Sample#5 Text: ST0726B :CS-2 10DXN335 Exp: DR225RES  
 375.8364 S:5 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,100,00%,3156,0,1,00%,F,T)

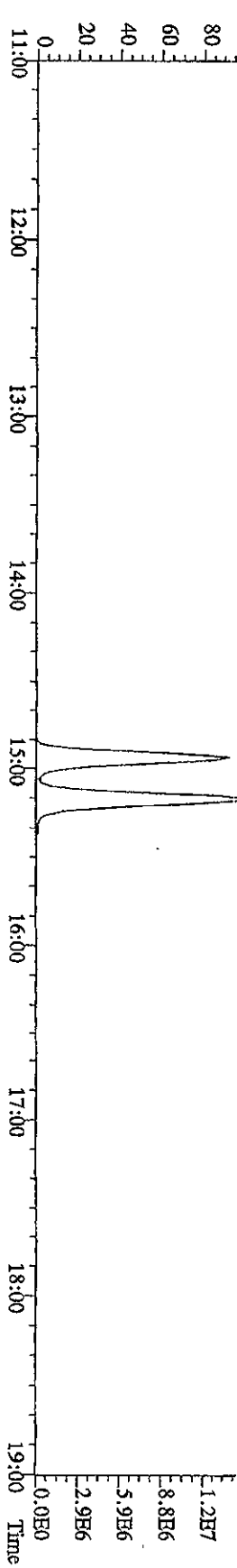
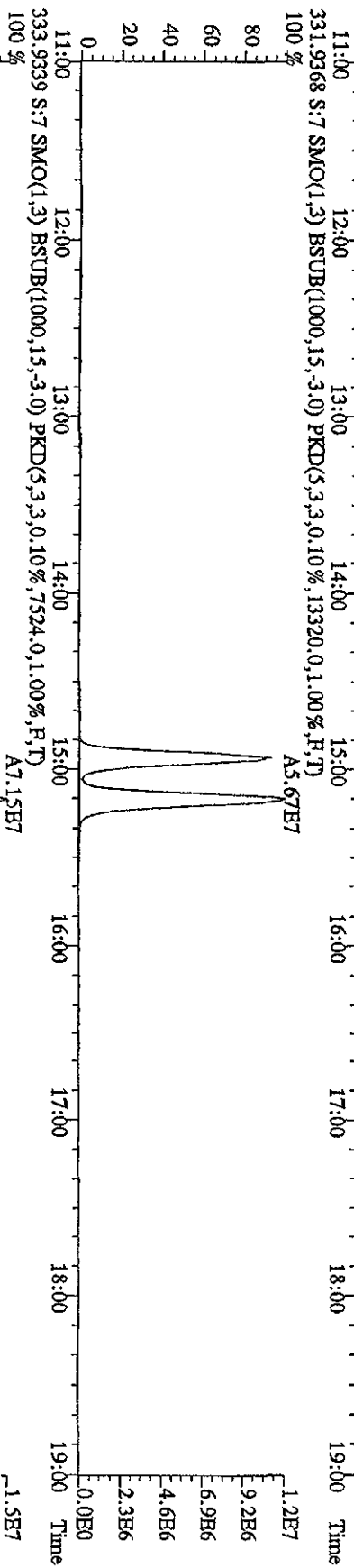
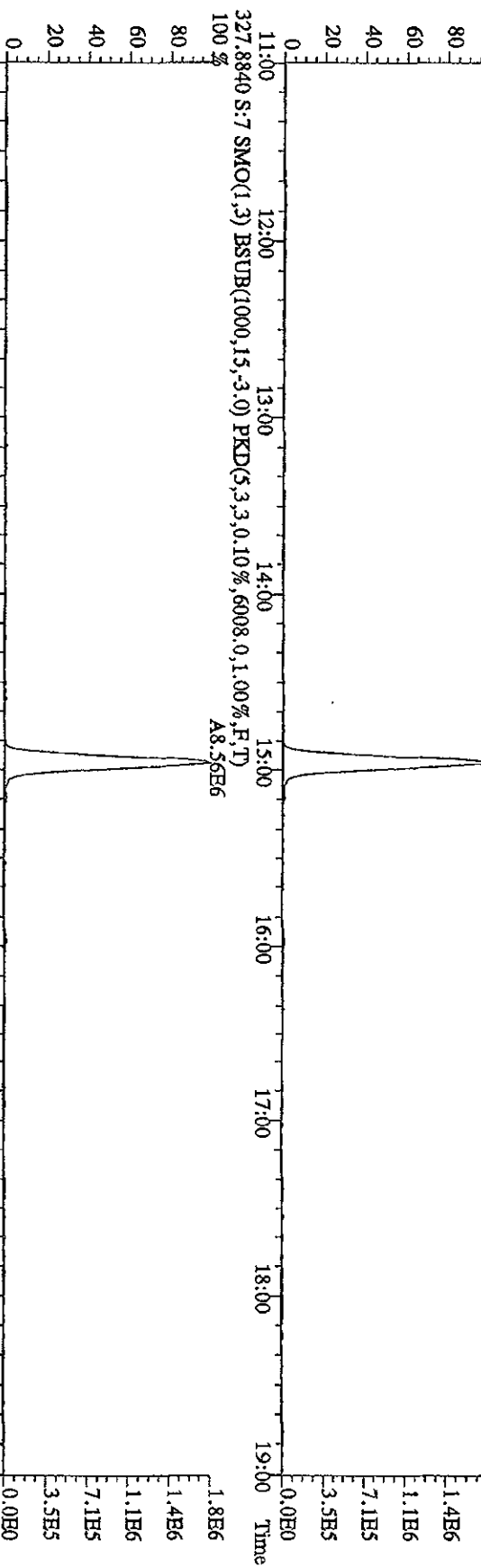




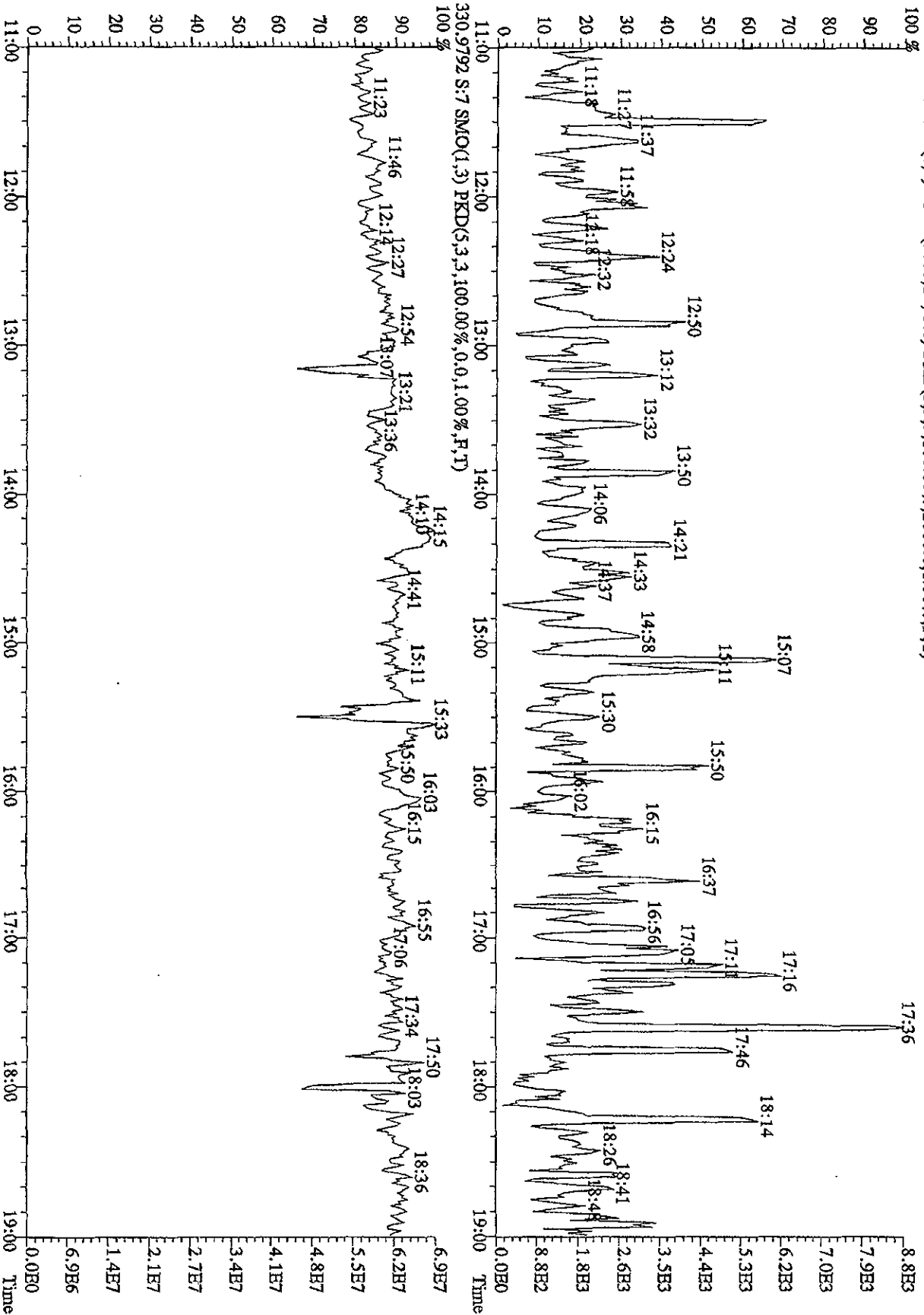
File:261105D2 #1-1242 Acq:26-JUL-2010 11:59:28 GC EI+ Voltage SIR 70SE  
 Sample#7 Text:ST0726C :CS-3 10DXN336 Exp:DB225RES  
 319.8965 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4208.0,1.00%,F,T)  
 100% A8.43E6



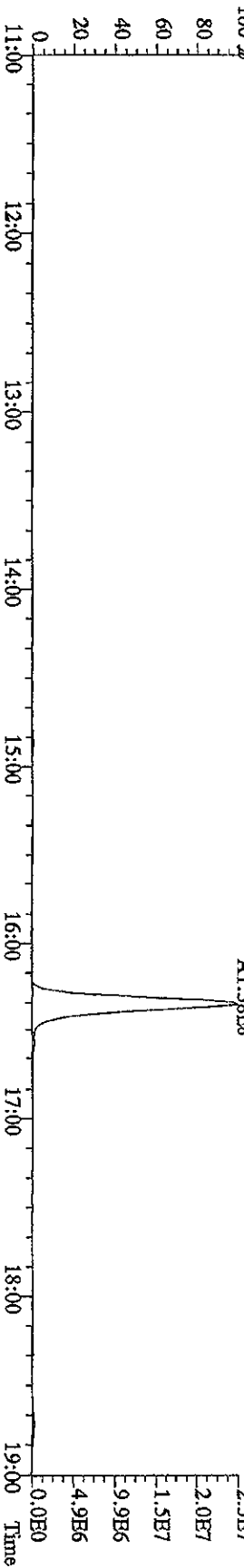
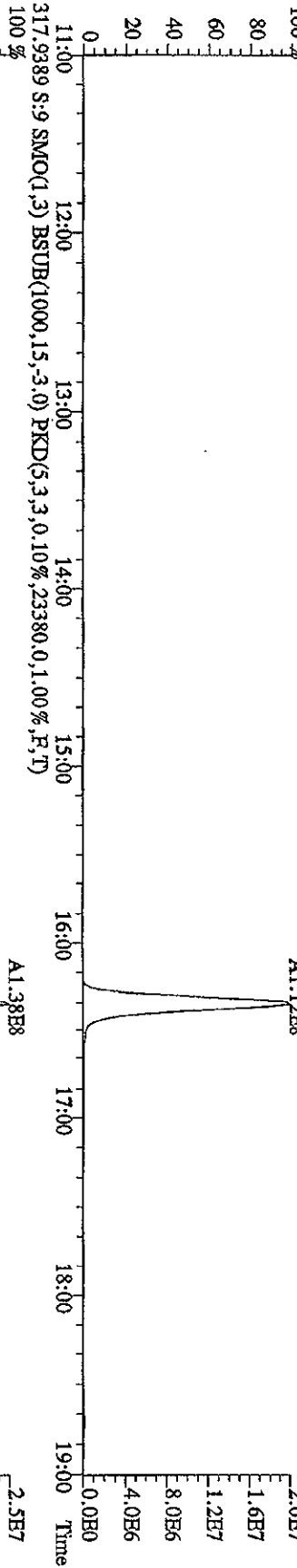
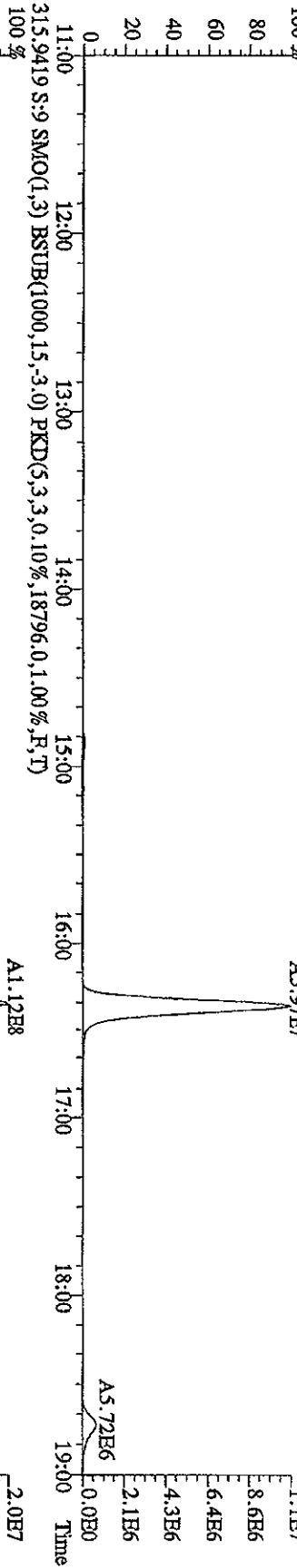
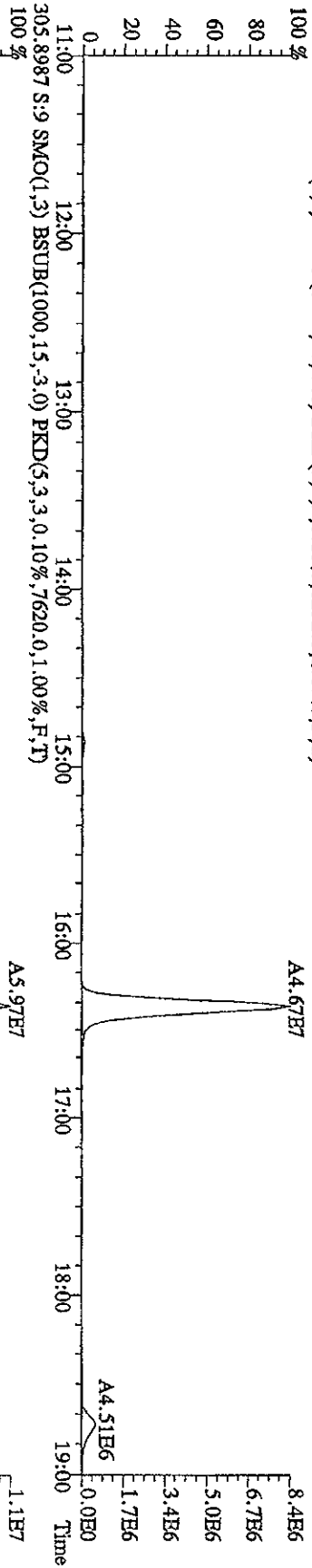
File:26TL105D2 #1-1242 Acq:26-JUL-2010 11:59:28 GC EI+ Voltage 51R 70SE  
 Sample#7 Text:ST0726C :CS-3 10DXN336 Exp:DB225RES  
 327.8840 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6008,0,1,00%,P,T)  
 100% A8.56E6



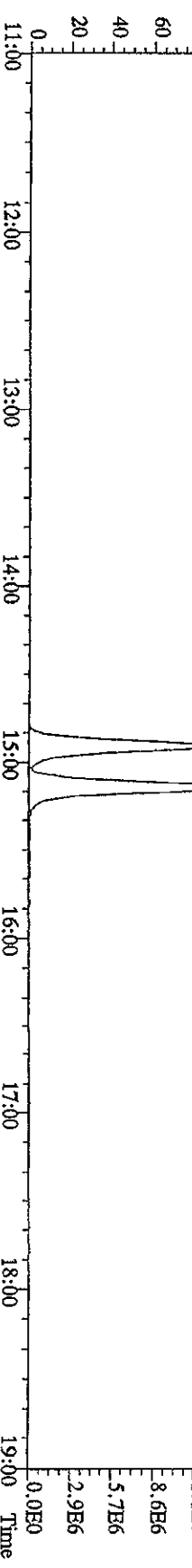
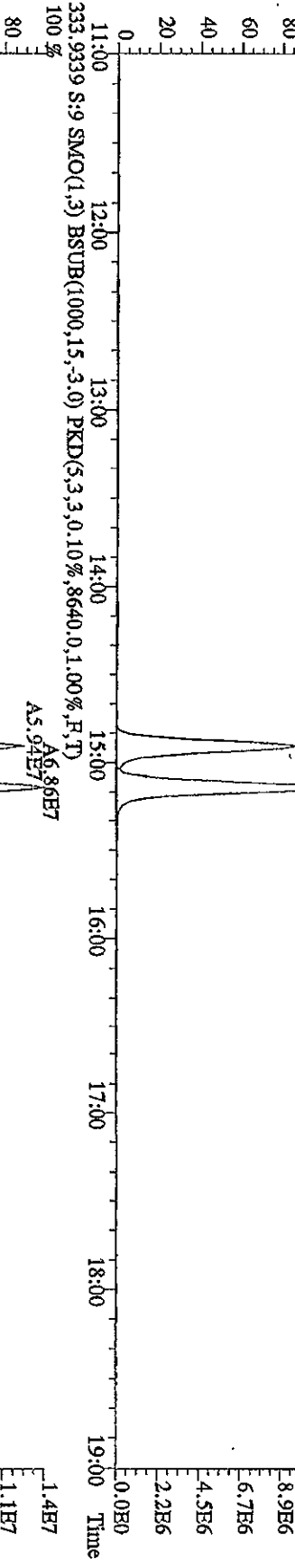
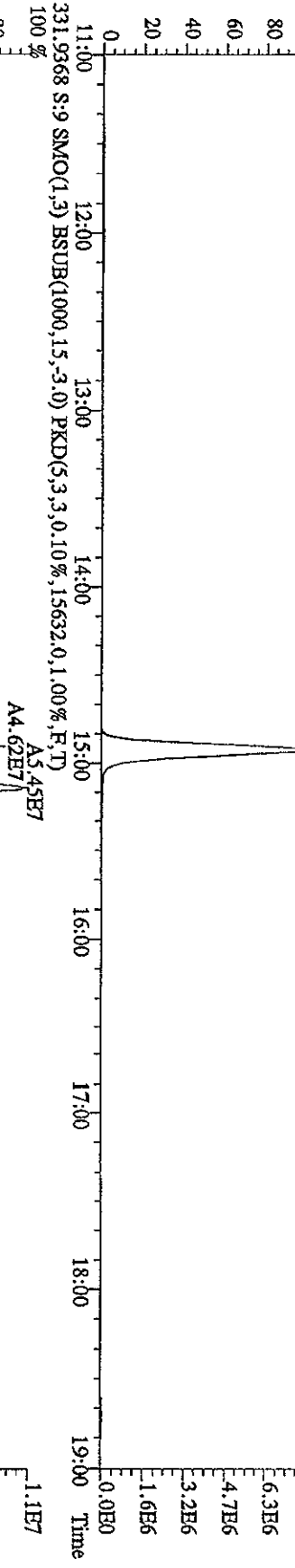
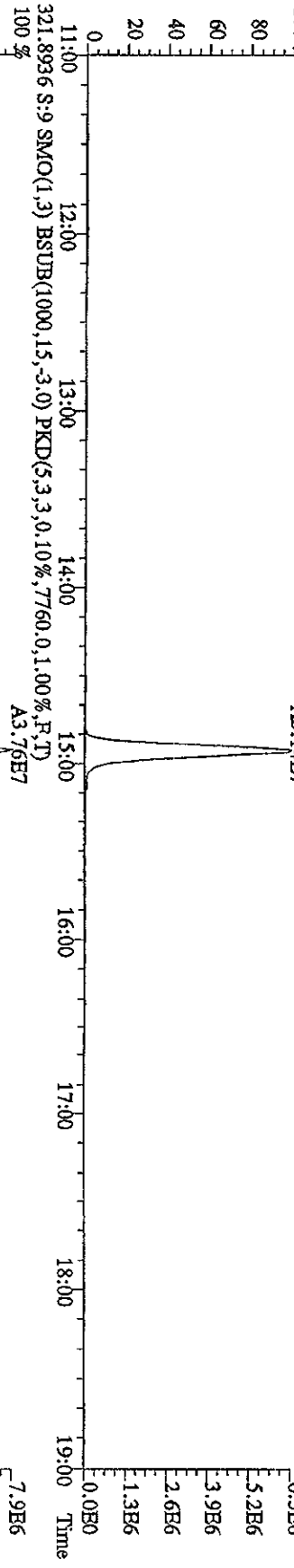
File: 2611.105D2 #1-1242 Acq: 26-JUL-2010 11:59:28 GC HI+ Voltage SIR 70SE  
 Sample# 7 Text: ST0726C : CS-3 10DXN336 Exp: DB225RHS  
 375.8364 S: 7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:26IU105D2 #1-1242 Acq:26-JUL-2010 13:07:04 GC HI+ Voltage SIR 70SE  
 Sample#9 Text:ST0726E :CS-4 10DXN37 Exp:DB225RES  
 303.9016 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6232.0,1.00%,F,T)

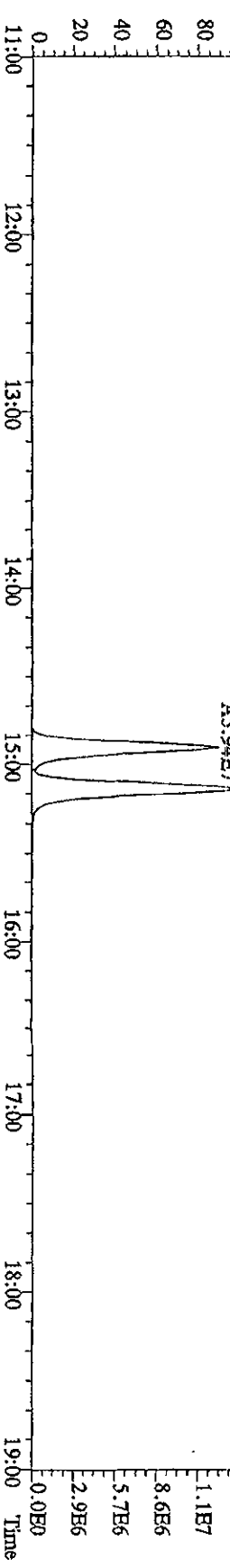
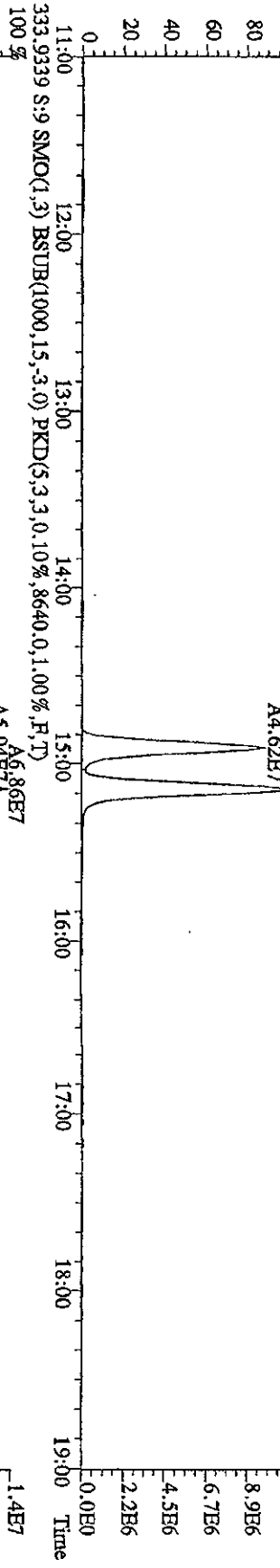
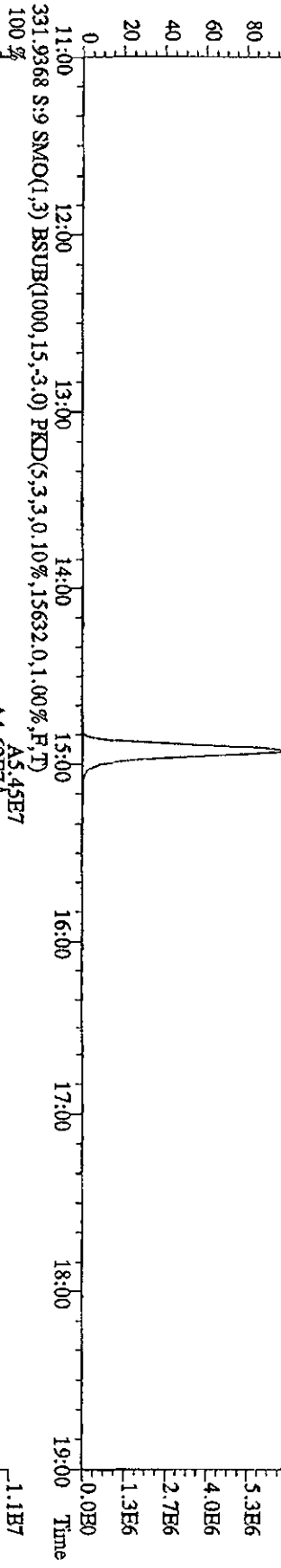
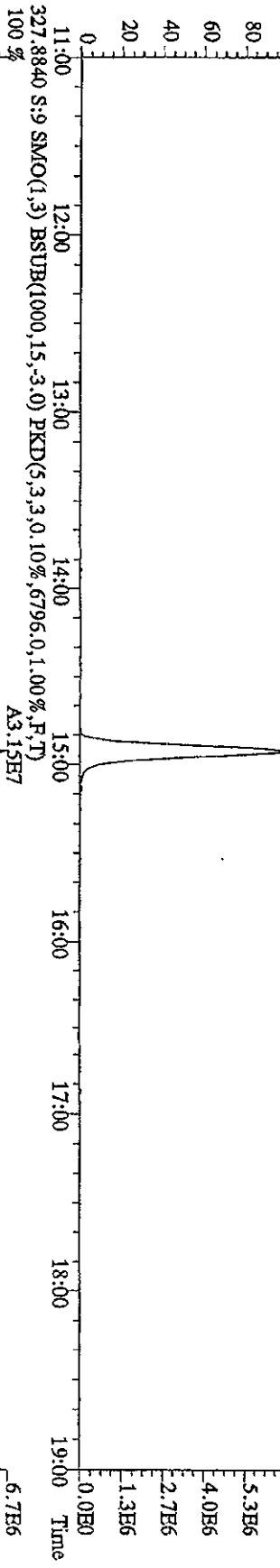


File:26IU105D2 #1-1242 Acq:26-JUL-2010 13:07:04 GC EI+ Voltage SIR 70SE  
 Sample#9 Text:ST0726E :CS-4 10DXN337 Exp:DB25RES  
 319.8965 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5792.0,1.00%,F,T)

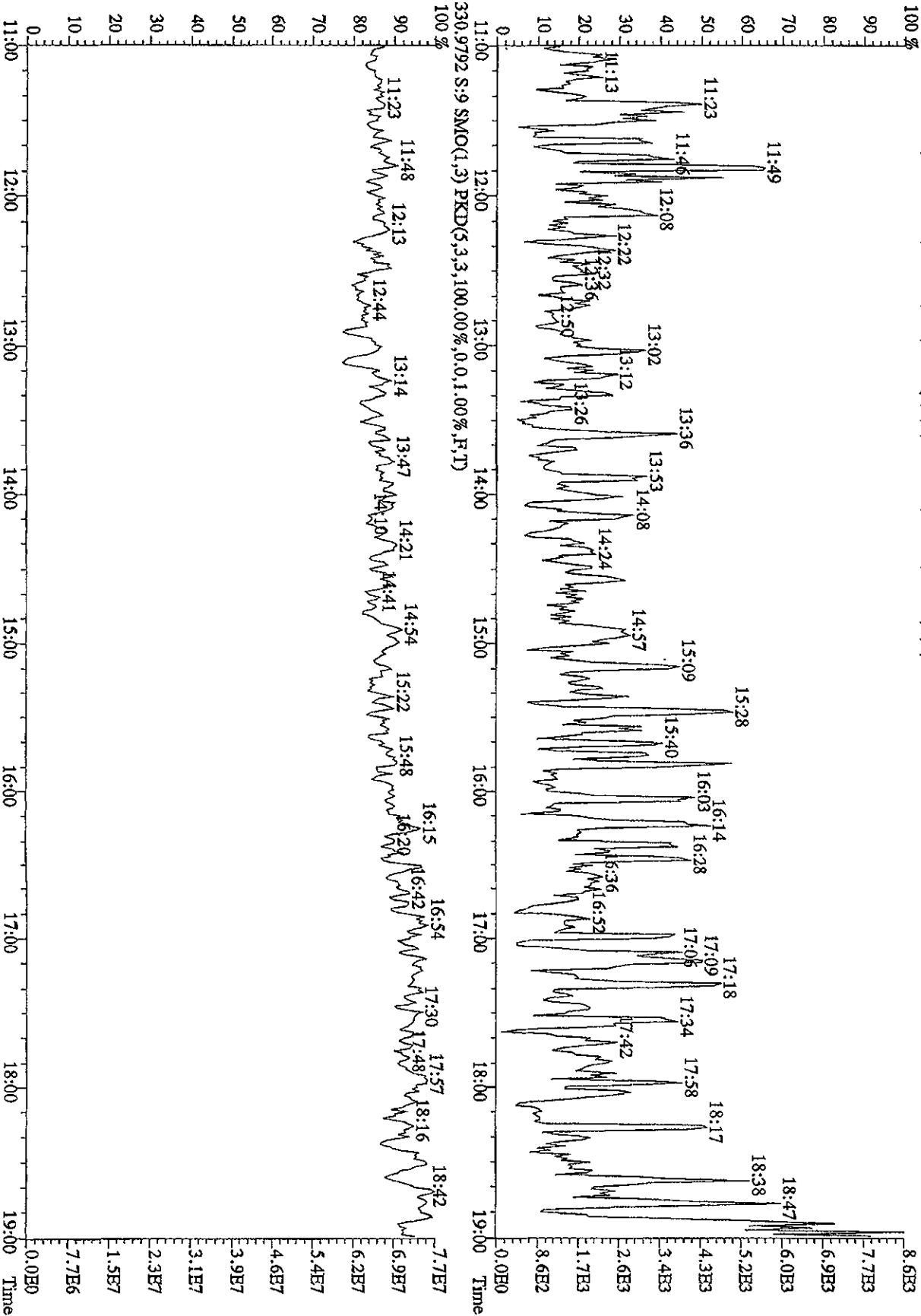




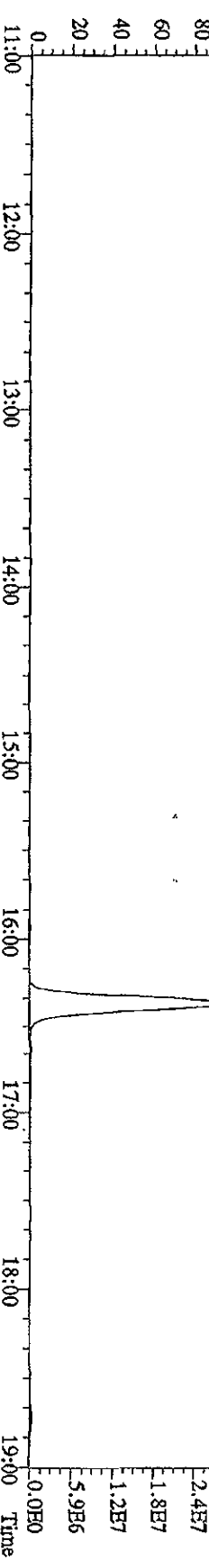
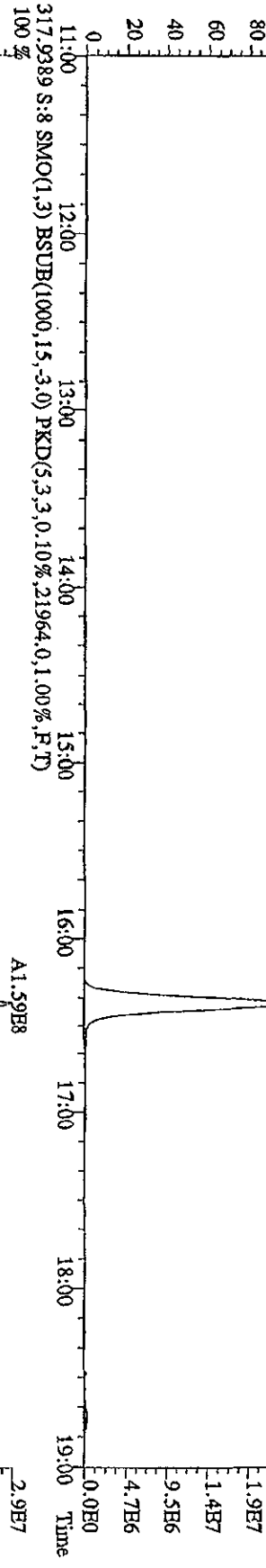
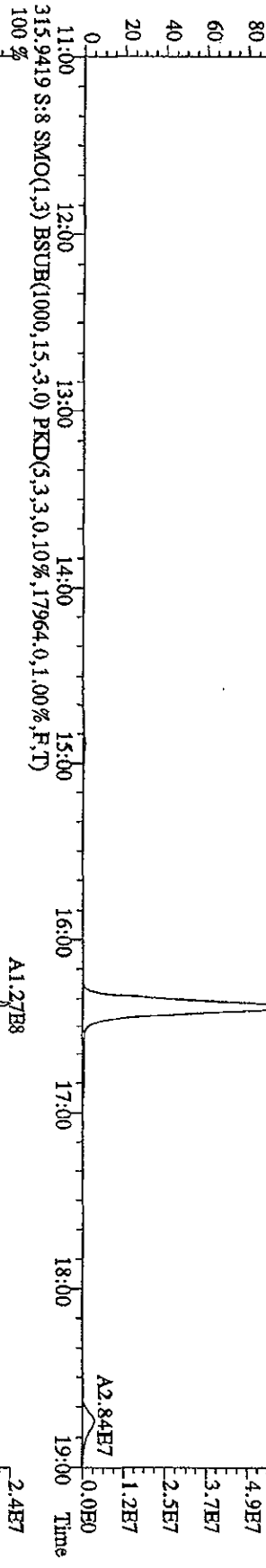
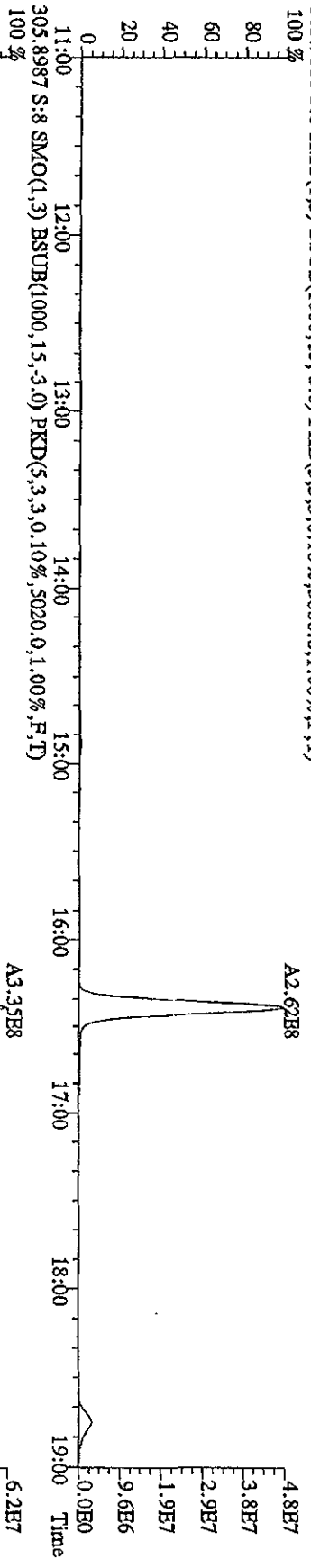
File: 261L105D2 #1-1242 Acq: 26-JUL-2010 13:07:04 GC EI+ Voltage SIR 70SE  
 Sample#9 Text: ST0726E :CS-4 10DXN37 Exp: DB25RES  
 327.8840 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6796,0,1.00%,R,T)  
 100%



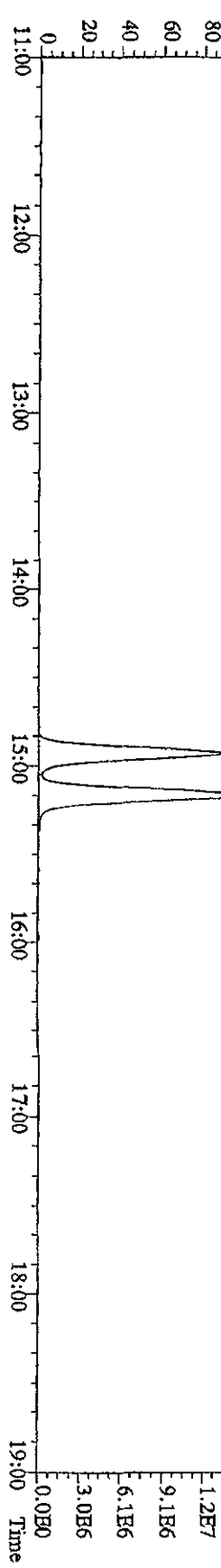
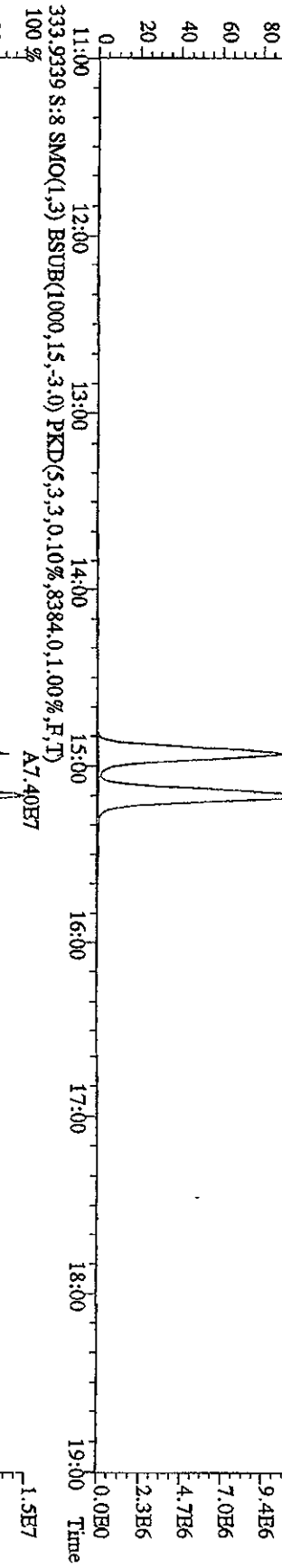
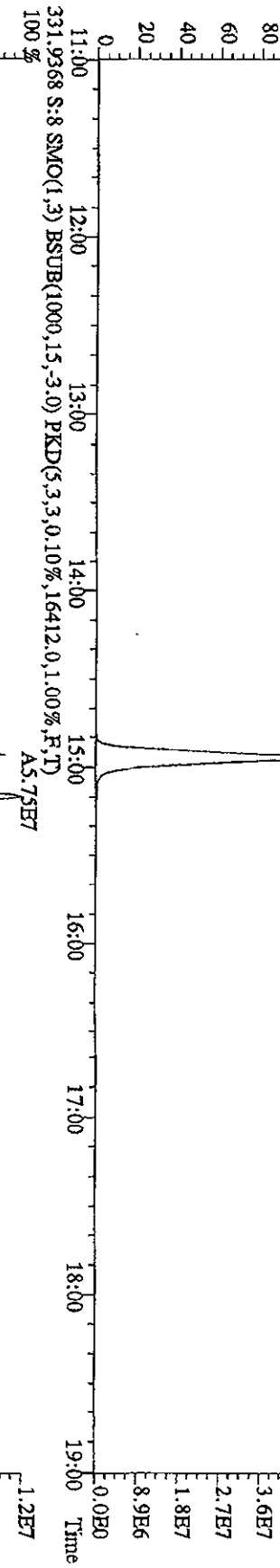
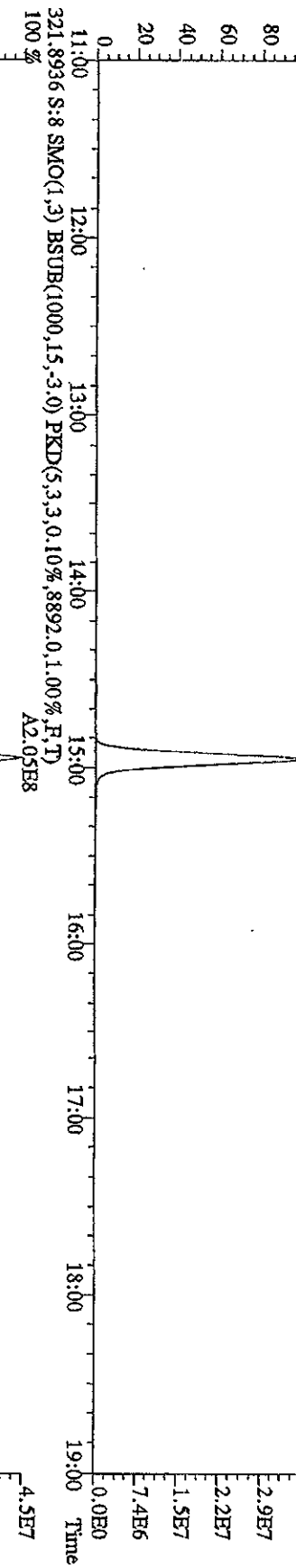
File:261105D2 #1-1242 Acq:26-JUL-2010 13:07:04 GC EI+ Voltage SIR 70SE  
 Sample#9 Text:ST0726E :CS-4 10DXN337 Exp:DB25RES  
 375.8364 S:9 SMO(1,3) BSUBR(1000,15,-3.0) PKD(5,3,3,100.00%,2008,0,1.00%,F,T)



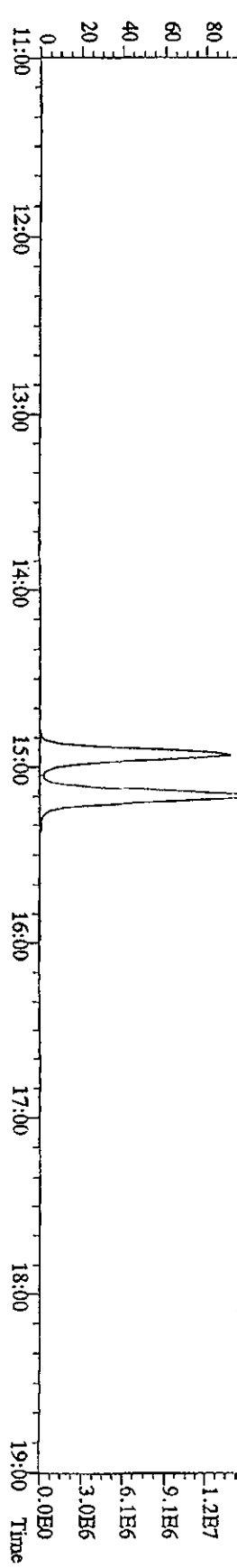
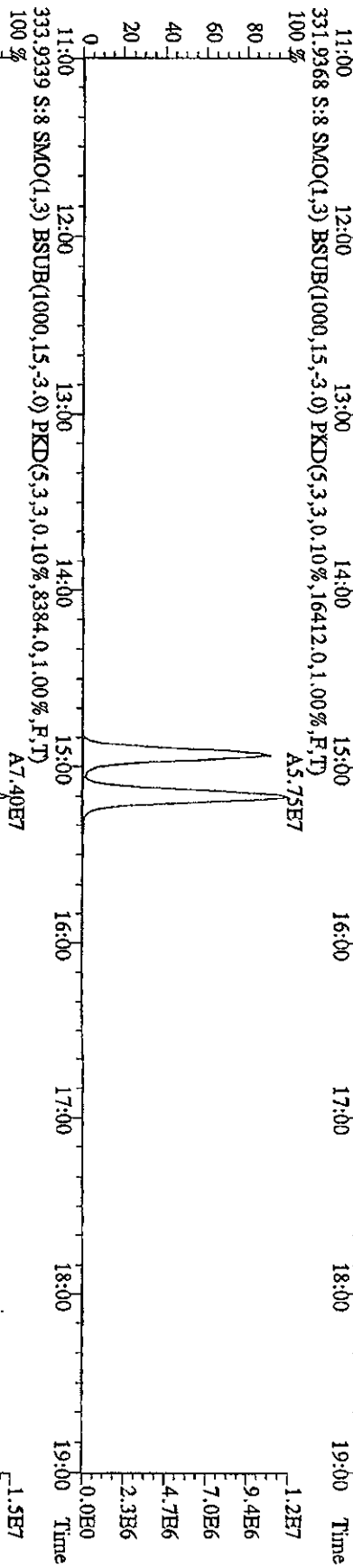
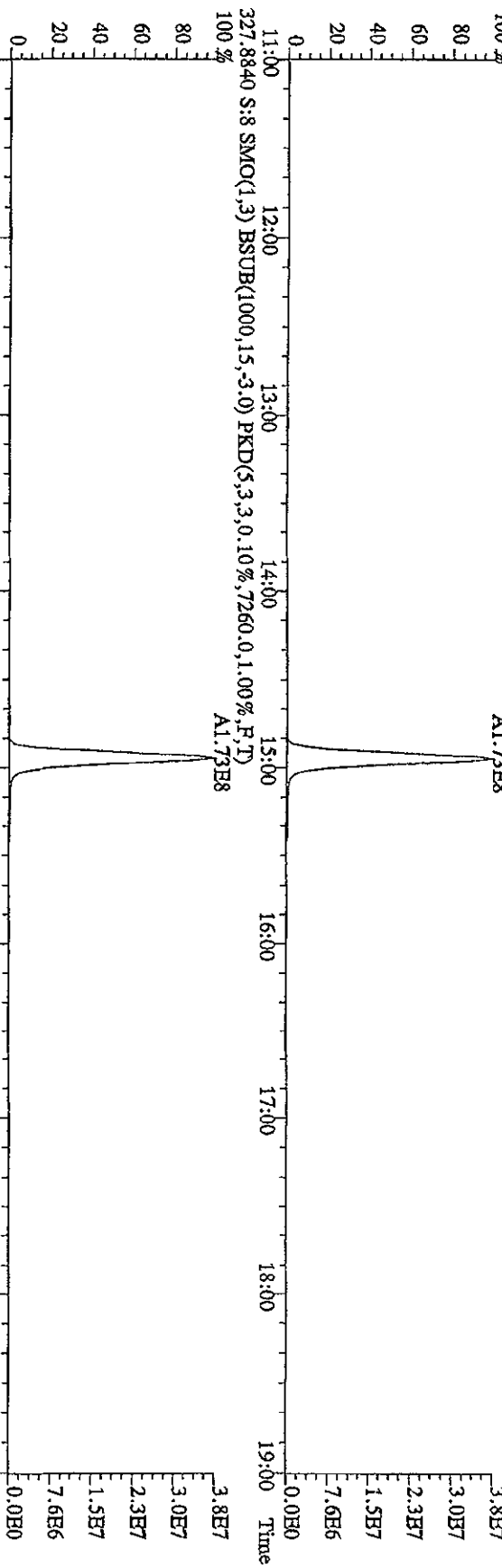
File:261L105D2 #1-1242 Acq:26-JUL-2010 12:33:16 GC BI+ Voltage SIR 70SB  
 Sample#8 Text:ST0726D :CS-5 10DXN339 Exp:DB225RES  
 303.9016 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3880,0,1,00%,F,T)



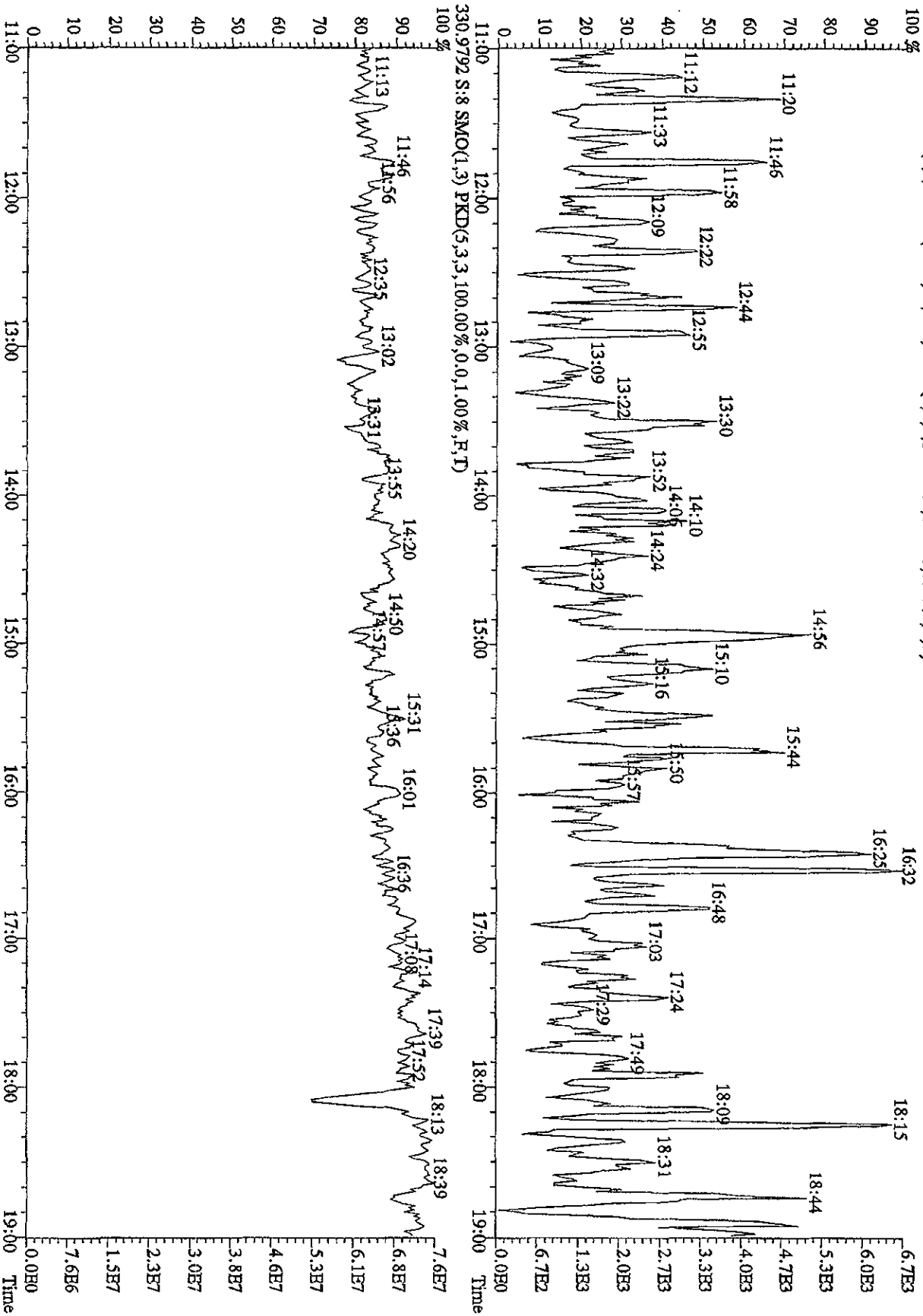
File: 26IL105D2 #1-1242 Acq: 26-JUL-2010 12:33:16 GC FI+ Voltage SIR 70SB  
 Sample#8 Text: ST0726D ; CS-5 10DXN339 Exp: DB225RES  
 319.8965 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6028.0,1.00%,F,T)  
 100% A1.68E8



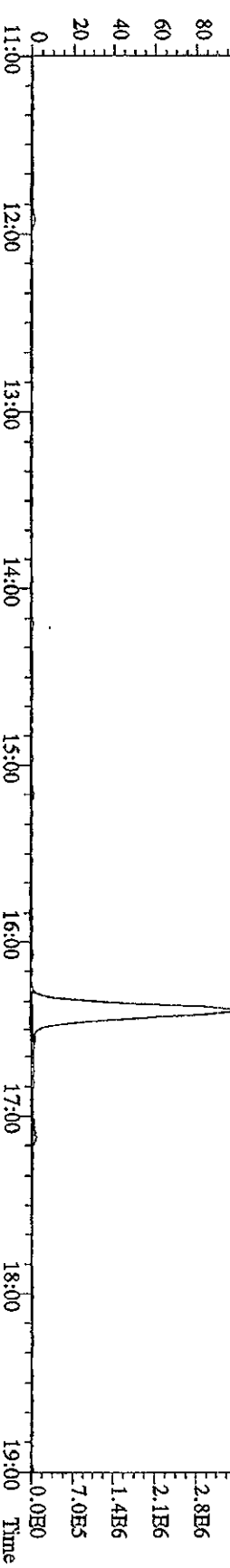
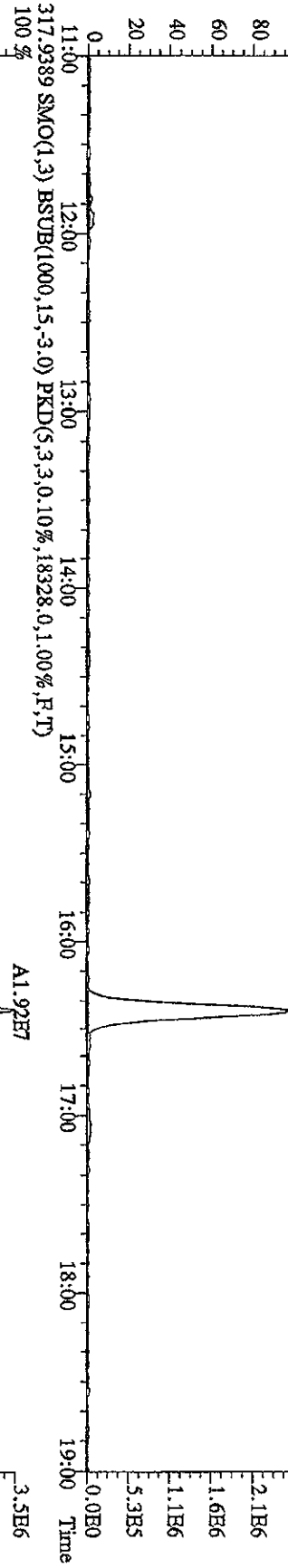
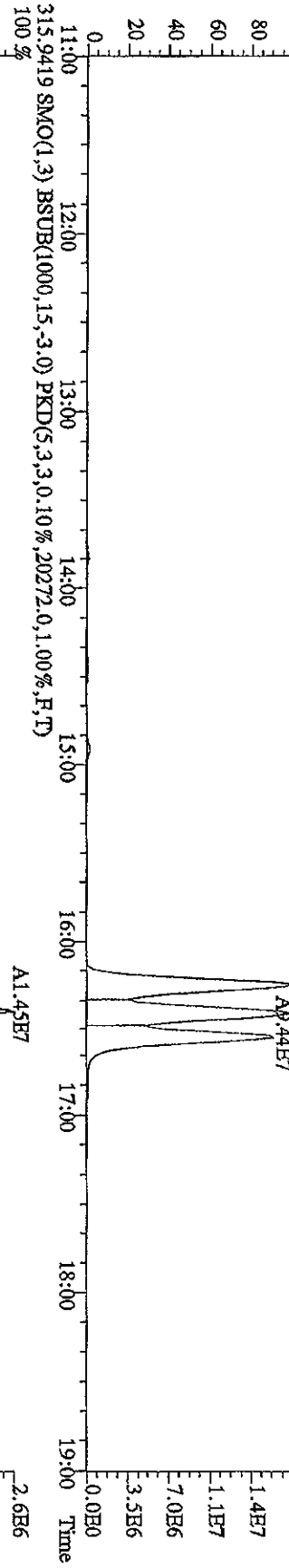
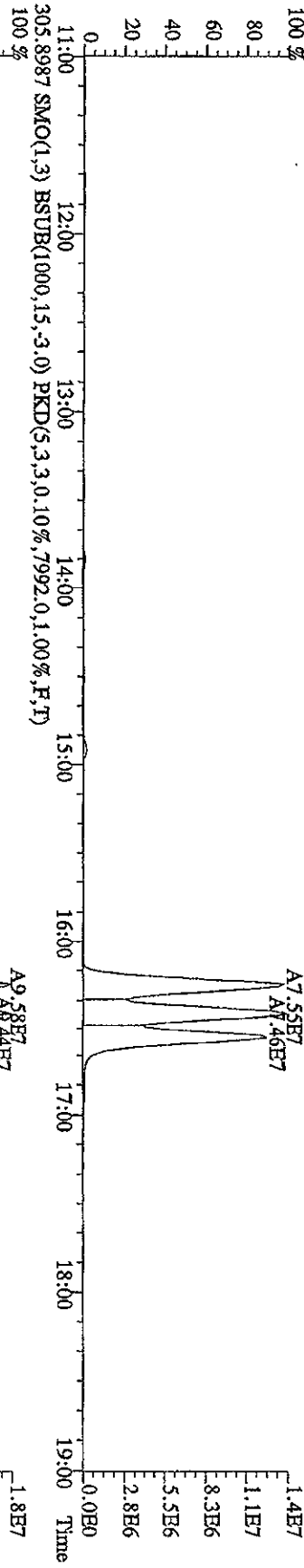
File: 2611.105D2 #1-1242 Acq: 26-JUL-2010 12:33:16 GC: EI+ Voltage: SIR 70SB  
 Sample#8 Text: ST0726D :CS-5 10DXN339 Exp: DB25RES  
 327.8840 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7260.0,1.00%,F,T)  
 100% A1.73E8



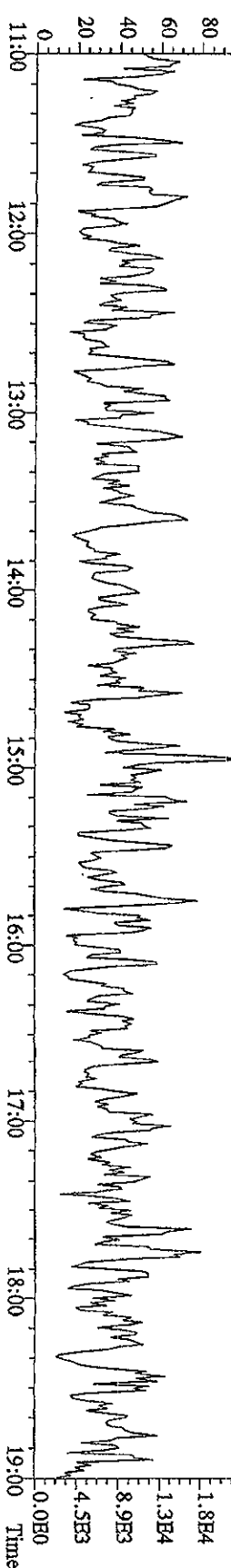
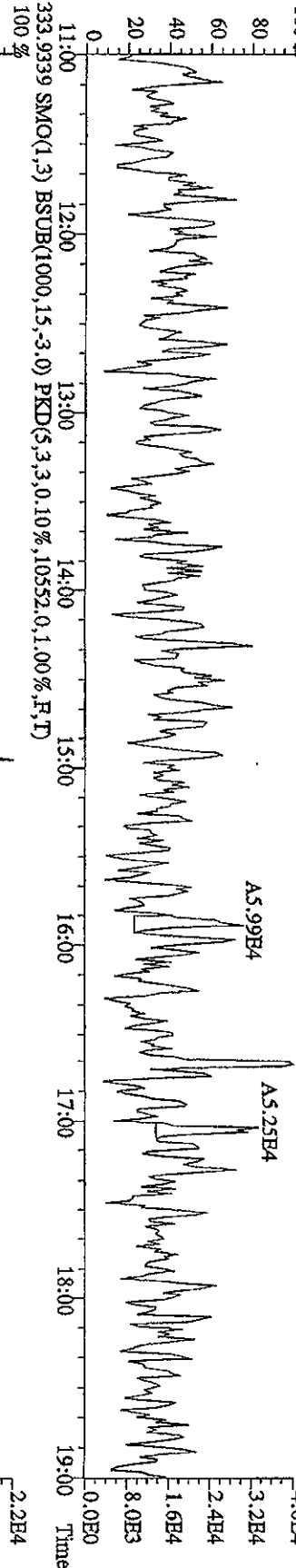
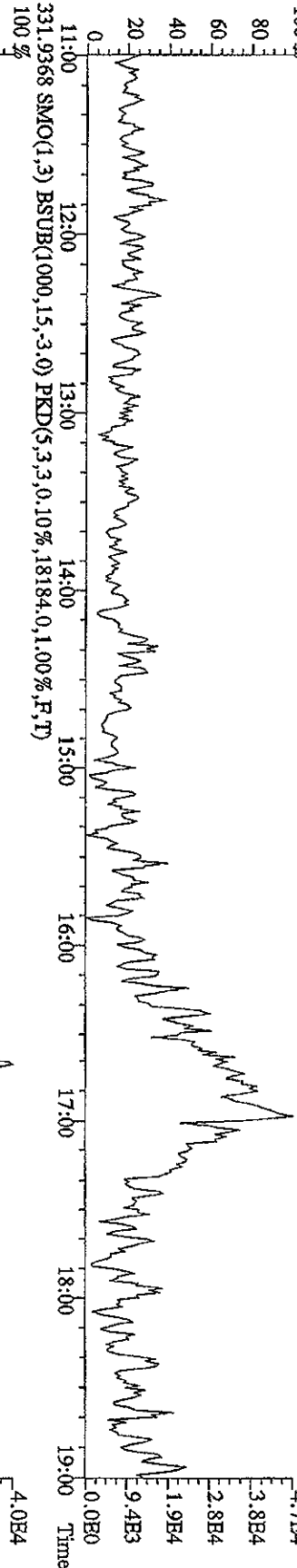
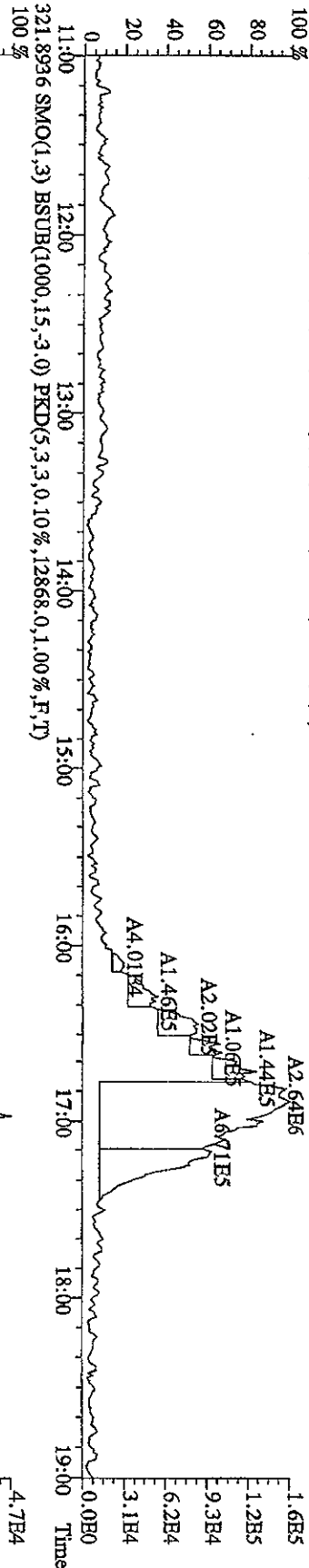
File: 261L105D2 #1-1242 Acq: 26-JUL-2010 12:33:16 GC EI+ Voltage: SIR 70SE  
 Sample#8 Text: ST0726D :CS-5 10DXN339 Exp: DB25RES  
 375,8364 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2080.0,1.00%,F,T)



File: 261105D2 #1-1242 Acq: 26-JUL-2010 08:18:34 GC EI+ Voltage: SIR 70SE  
 Sample#1 Text: CP0726 : DB-225 CPSM 3732-06 Exp: DB225RES  
 303.9016 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5928.0,1.00%,F,T)  
 100%

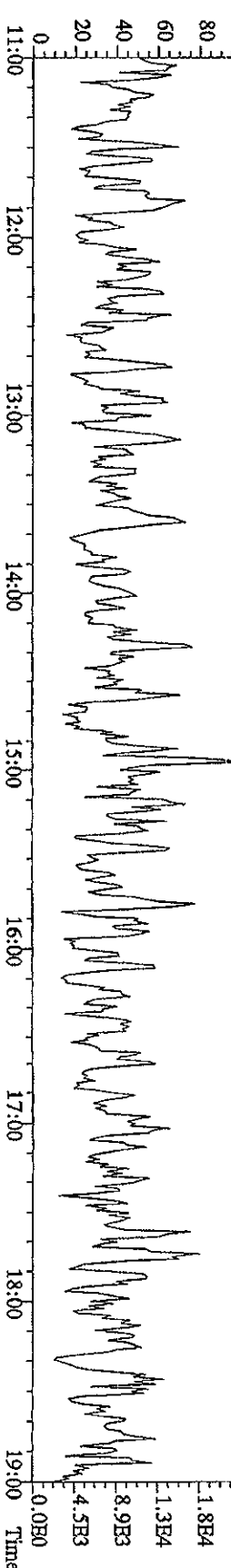
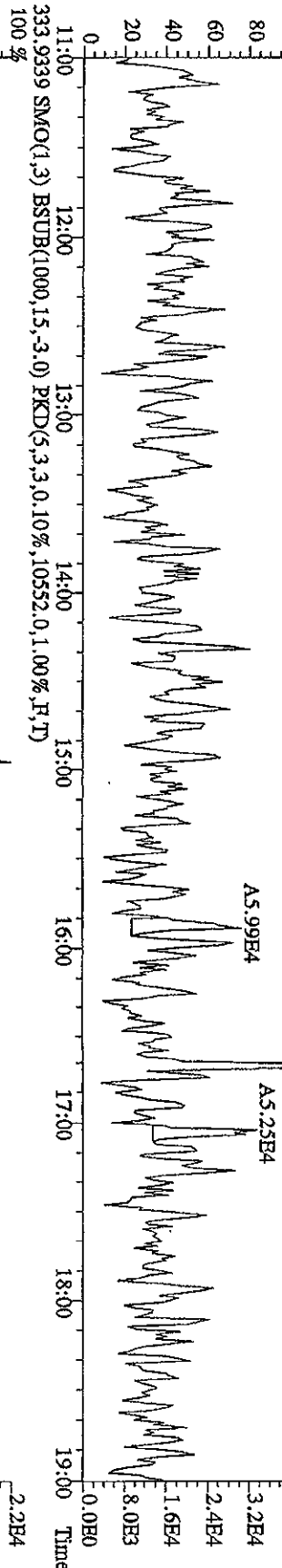
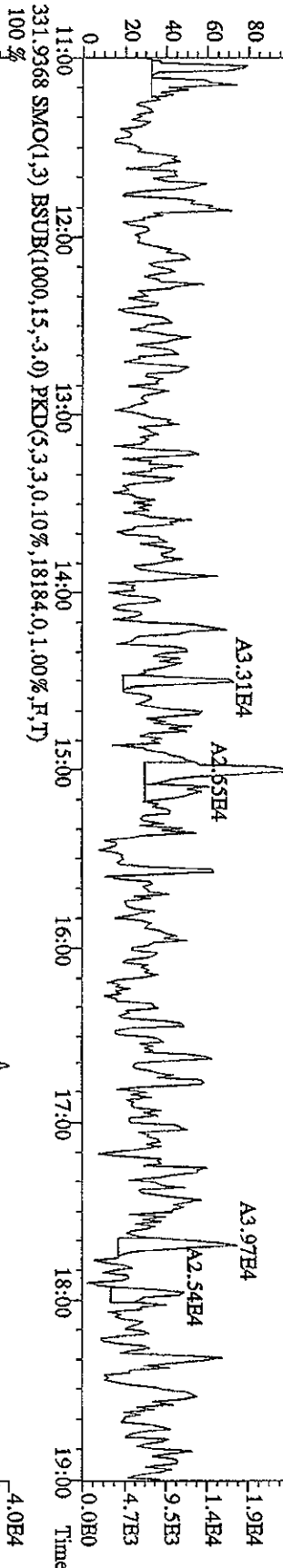
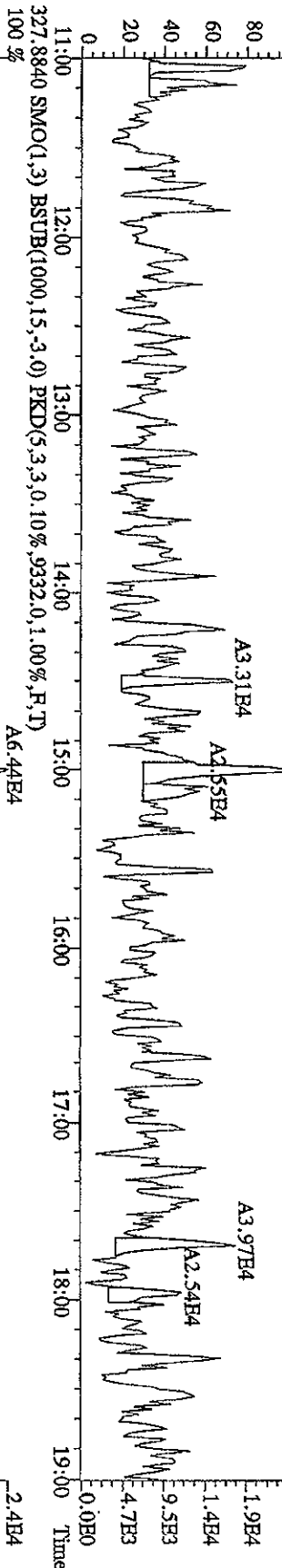


File: 2611.105D2 #1-1242 Acq: 26-JUL-2010 08:18:34 GC: EI + Voltage: SIR 70SE  
 Sample#1 Text: CP0726 : DB-225 CP5M 3732-06 Exp: DB225RES  
 319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9128.0,1.00%,F,T)

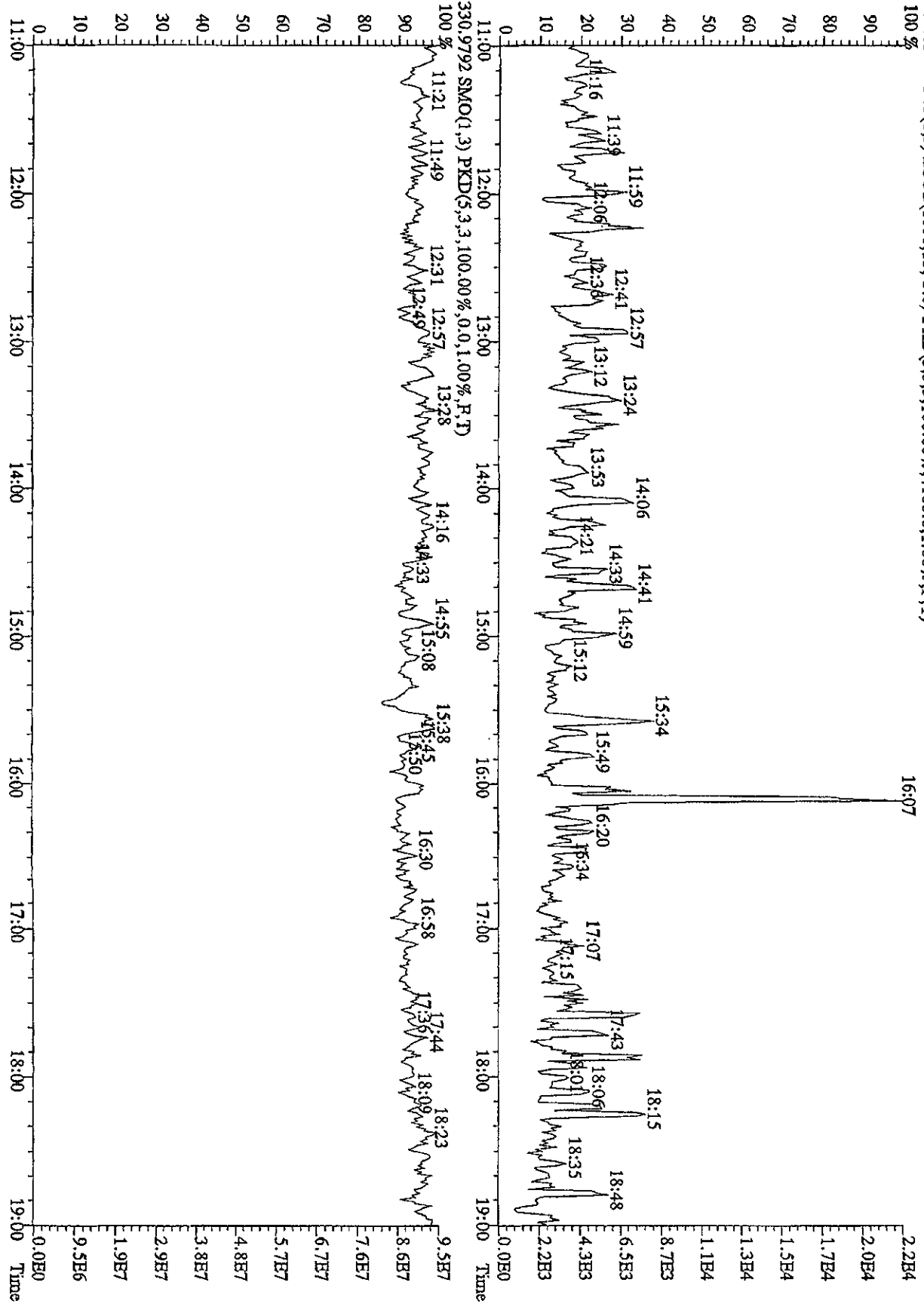




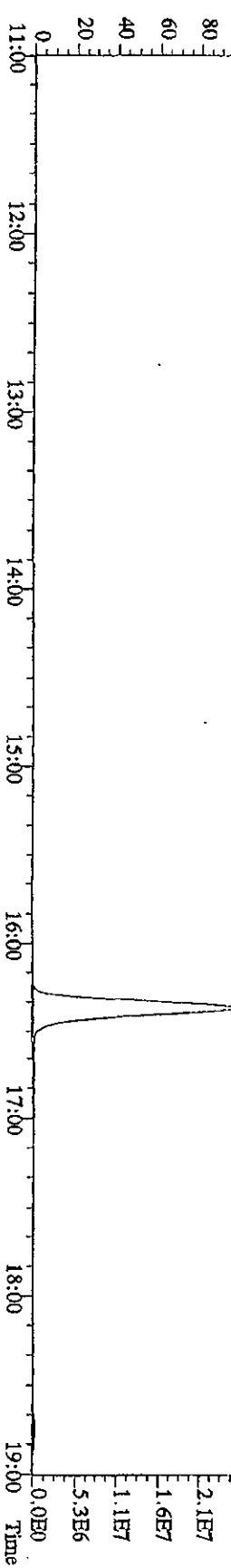
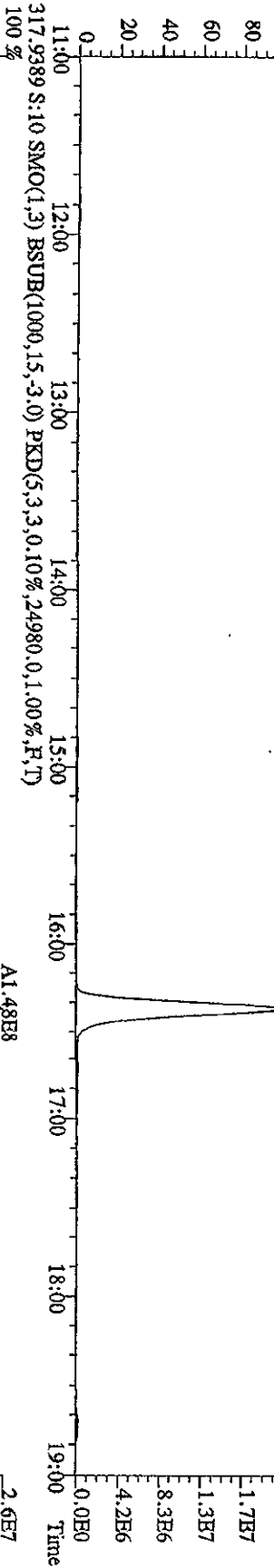
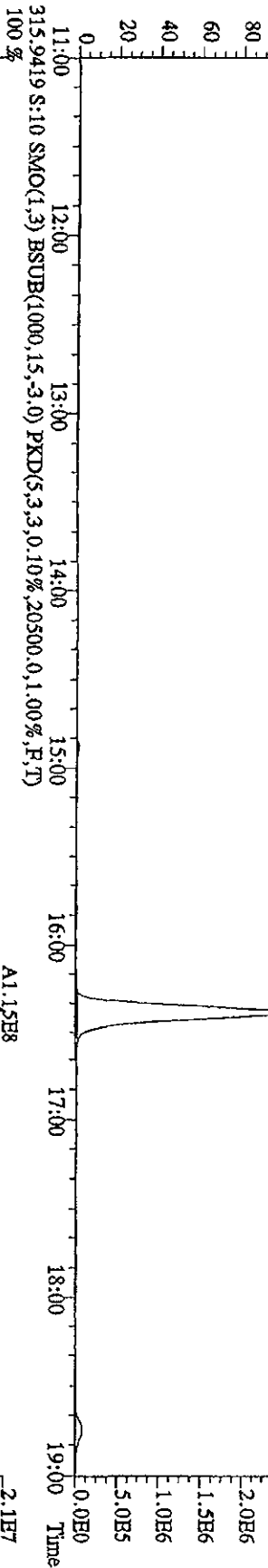
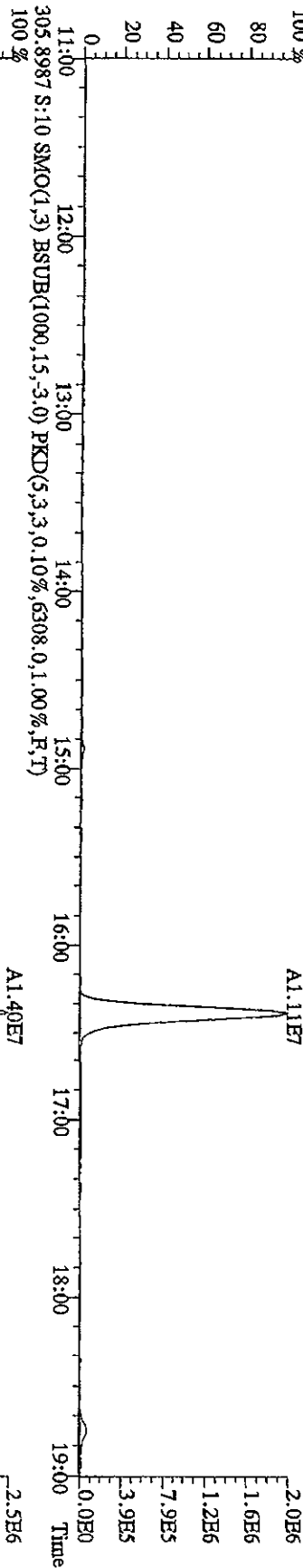
File:26IL105D2 #1-1242 Acq:26-JUL-2010 08:18:34 GC HI + Voltage SIR 70SE  
 Sample#1 Text:CP0726 :DB-225 CFSM 3732-06 Exp:DB225RES  
 327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.9332,0,1.00%,F,T)  
 100%



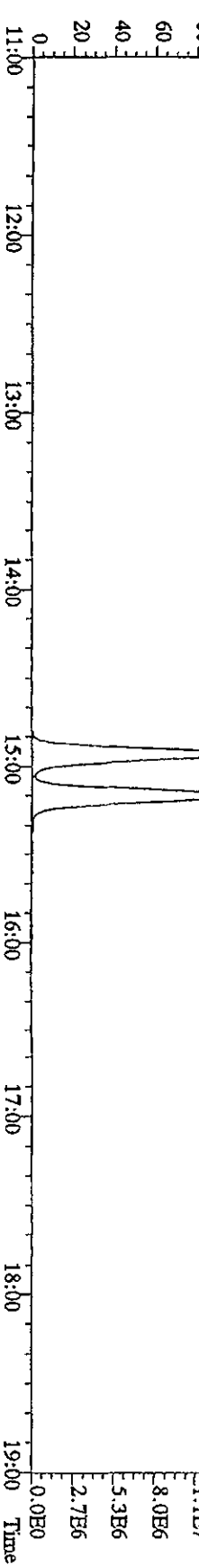
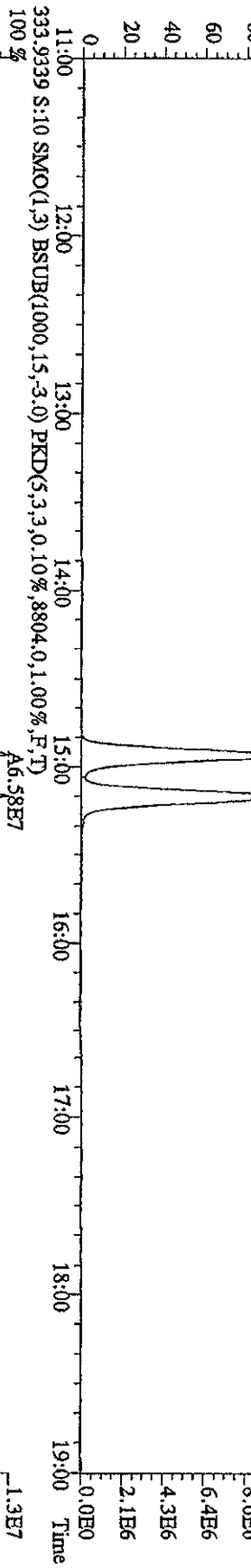
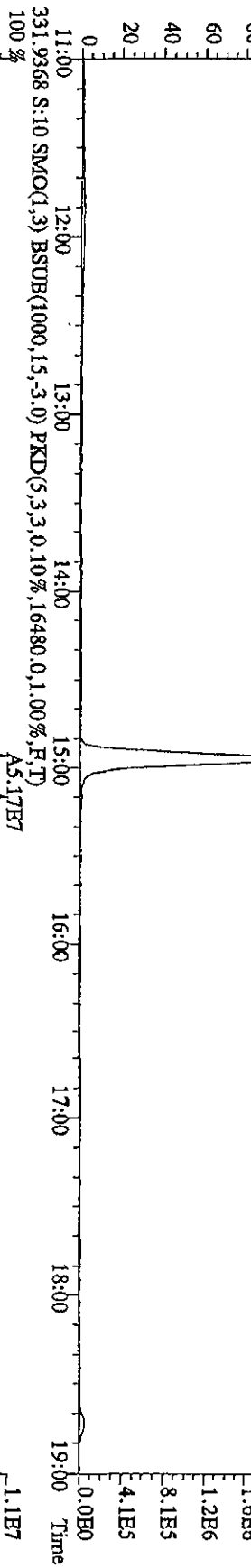
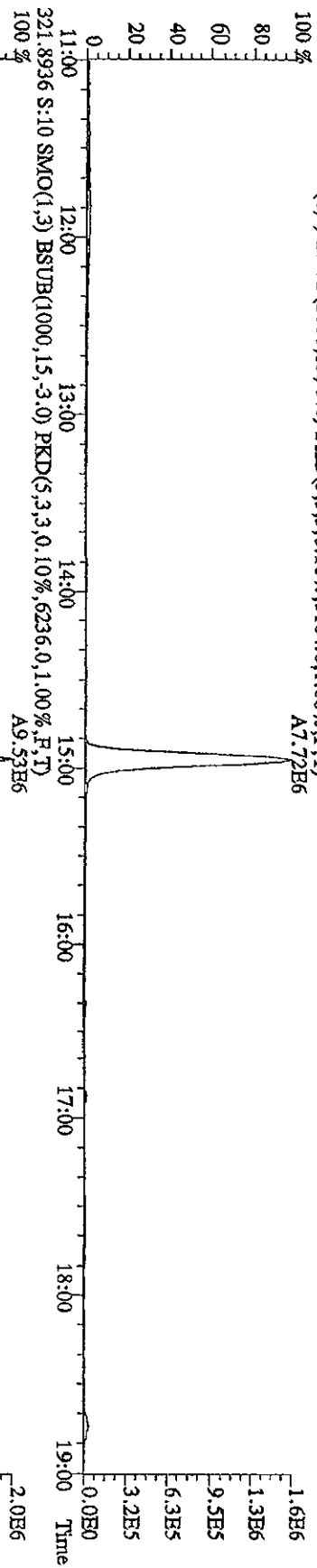
File: 261L105D2 #1-1242 Acq: 26-JUL-2010 08:18:34 GC EI+ Voltage SFR 70SE  
 Sample#1 Text: CP0726 .IDB-225 CP5M 3732-06 Exp: DB225RES  
 375.8364 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,4108,0,1.00%,R,T)



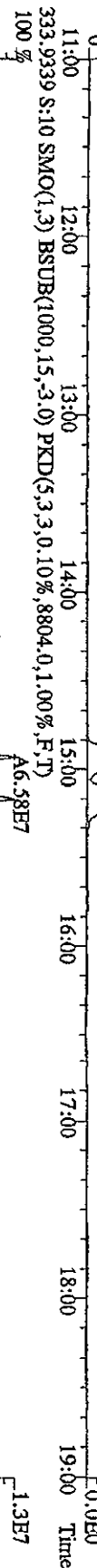
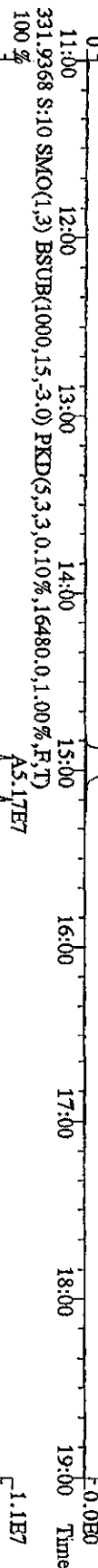
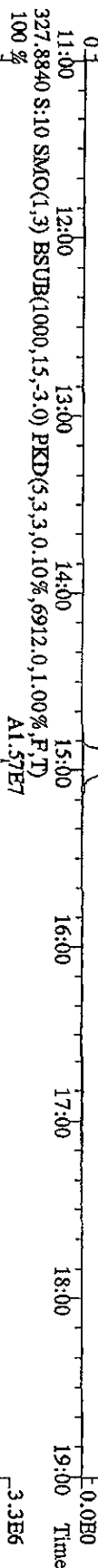
File:26TL105D2 #1-1242 Acq:26-JUL-2010 13:40:52 GC HI+ Voltage SIR 70SE  
 Sample#10 Text:ST0726F :2nd Source 10DXN340 Exp:DB25RES  
 303.9016 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4628,0,1.00%,F,T)  
 100%



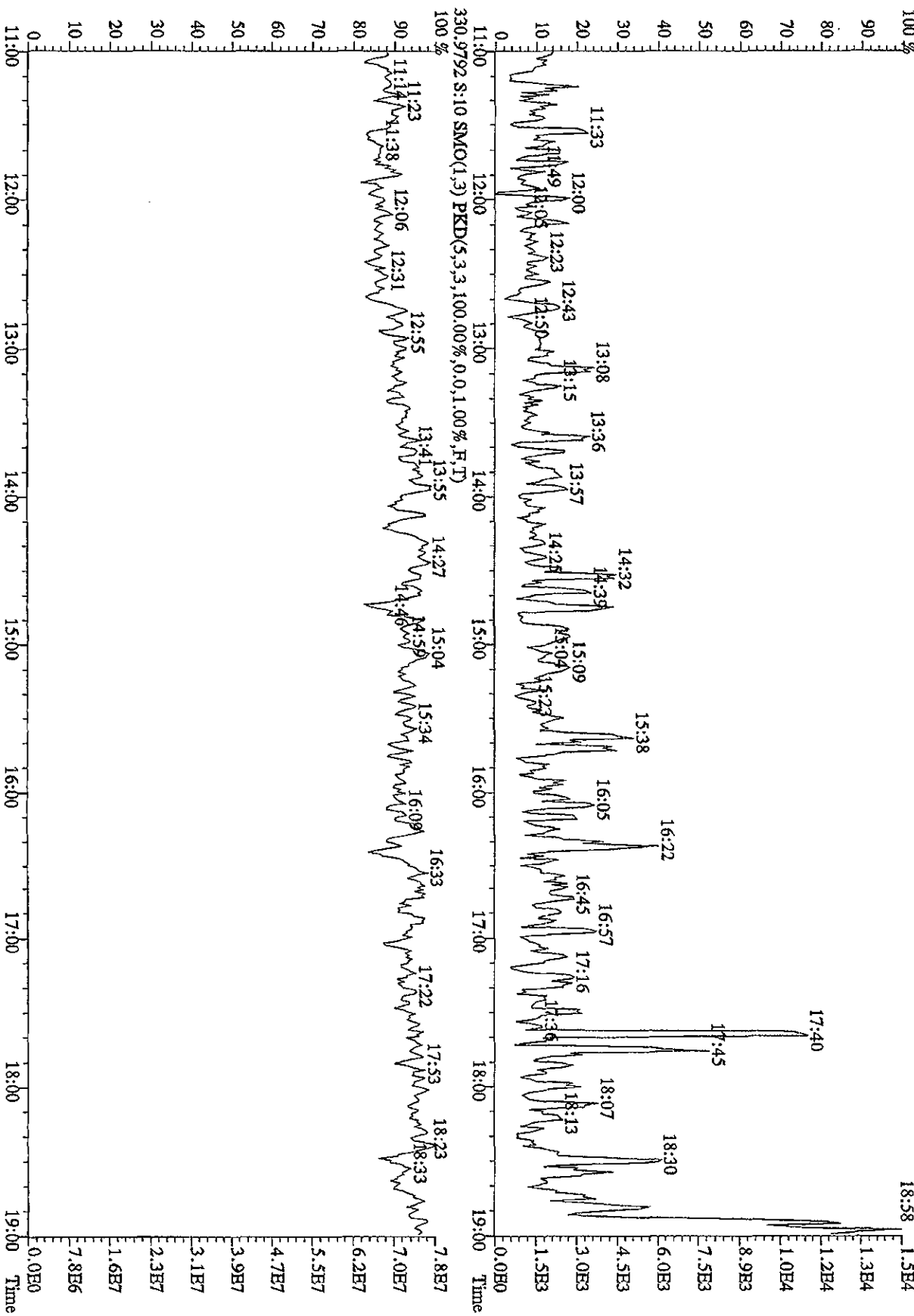
File:261L105D2 #1-1242 Acq:26-JUL-2010 13:40:52 GC EI+ Voltage STR 70SE  
 Sample#10 Text:ST0726F :2nd Source 10DXN340 Exp:DB225RES  
 319.8965 S:10 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5104,0,1,00%,F,T)  
 100% A7.72E6



File:26IL105D2 #1-1242 Acq:26-JUL-2010 13:40:52 GC EI+ Voltage SIR 70SE  
 Sample#10 Text:ST0726F 2nd Source 10DDXN340 Exp:DB225RES  
 327.8840 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,1.00%,F,T)  
 100% A1.57E7



File:26L10SD2 #1-1242 Acq:26-JUL-2010 13:40:57 GC HI+ Voltage SIR 70SE  
 Sample#10 Text:ST0726F :2nd Source 10DXN340 Exp:DB225RHS  
 375.8364 S:10 SMO(1,3) BSUR(1000,15,-3.0) PKD(5,3,3,100.00%,2100.0,1.00%,F,T)



**Sample Extraction/Preparation Log**  
**Copies and Checklists**

**Data Checklist  
HRGCMS/LRGCMS Analyses**

Batch #: 0266392 Method ID: Dioxins/Furans, HRGC/HRMS (TO-9)

**DB-5**  
 Data Analyst: OS  
 Date initiated: 09-29-10  
 Reviewer: WCS  
 Date reviewed: 9/30/10

**DB-225**  
 Data Analyst: OS  
 Date initiated: 09-29-10  
 Reviewer: Mew  
 Date reviewed: 9/30/10

QA/QC verification:	Initiated DB-5	Reviewed DB-5	Initiated DB-225 (High Res Only)	Reviewed DB-225 (High Res Only)
-Daily standard package(s) present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Method Blank present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>NA</u>	<u>NA</u>
-LCS/DCS copy present and meets native recovery criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>NA</u>	<u>NA</u>
-Internal standard recoveries within limits?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Ion ratios within + 15% of theoretical values?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Other QC (Dup,MS,SD) within specs?***	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>

Sample Analysis:	Initiated DB-5	Reviewed DB-5	Initiated DB-225 (High Res Only)	Reviewed DB-225 (High Res Only)
-Correct sample aliquot used?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-All raw data present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Standard target DL's used? If RL's are used specify: _____	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-DL's below TDL / <u>(LCL)</u> (please circle)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-All positives reported at levels greater than method blank DL's?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Correct RRF's used for method?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Internal standard amounts correct for method?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Target analytes are not saturated?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Dilution/splitting of extract taken into account?	<u>NA</u>	<u>2/split</u>	<u>NA</u>	<input checked="" type="checkbox"/>
-Have dilution calculations been verified?	<u>NA</u>	<u>NA</u>	<u>NA</u>	<input checked="" type="checkbox"/>
-Has a manual calculation for the sequence(s) been verified?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Are retention times (RT) correct?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Manual integrations checked?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>NA</u>	<u>NA</u>

**Comments:** (Use other side if necessary)

① SEARCH # 07-0113669

* Recovery limits:	**RPD limits:
NCASI 551: 40-120%***	50%
Method 8290: 40-135%***	20%
Method 1613: 25-150%***	50%
Method 23: 40-130%***(Cl4-Cl6), 25-130%(Cl7-8), 70-130%(surr.)	50%
PCBs: 25-150%***	50%
Method 8280: 40-120%***	
DFLM01.0: 25-150%***	
Method 1614 25-150%***	

\*\*\* Lower recoveries are acceptable if I.S. S/N ≥10:1 and DL's are <LCL for target analytes.



**TestAmerica West Sacramento  
High Resolution Prep Log  
Dioxin/Furan Air Extraction**

Batch: 0266392  
MS Run #: \_\_\_\_\_  
Prep Date: 9/23/2010

Shared QC Batch: N/A  
Shares QC With: N/A

Internal COC:	
Delivered to Inst.:	<u>9/21/10</u>
Inst Receipt:	

Box # 58

Method: IK TO-9  
Matrix: S AIR  
Extraction: 11 SOXHLET (NONE,Na2SO4)  
QC: 3W AMBIENT AIR TESTING  
SAC: IK - S - 11 - 3W

Soxhlet time on: 16:45 Soxhlet time off: 2:46  
9/23/10 9/24/10

Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size	Final Volume		Analysis Hold Time Expires	Extraction ID	Round Bottom ID	Rotovap ID
					20uL	Other				
G01230000 - 392	B	L7EX61AA	10/20/2010	1.0	<u>✓</u>		11/7/2010			
G01230000 - 392	C	L7EX61AC	10/20/2010	1.0	<u>✓</u>		11/7/2010			
G01230000 - 392	L	L7EX61AD	10/20/2010	1.0	<u>✓</u>		11/7/2010			
G01230491 - 1		L7DQH1AA	10/20/2010	1.0	<u>✓</u>		11/7/2010			
G01230491 - 3		L7DQM1AA	10/20/2010	1.0	<u>✓</u>		11/7/2010			
G01230491 - 5		L7DQP1AA	10/21/2010	1.0	<u>✓</u>		11/7/2010			
G01230491 - 7		L7DQR1AA	10/21/2010	1.0	<u>✓</u>	<u>9/23/10</u>	11/7/2010			
G01230491 - 13		L7DQ61AA	10/21/2010	1.0	<u>✓</u>		11/7/2010			
G01230491 - 15		L7DRA1AA	10/21/2010	1.0	<u>✓</u>		11/7/2010			
G01230491 - 17		L7DRF1AA	10/22/2010	1.0	<u>✓</u>		11/7/2010			
G01230491 - 19		L7DRH1AA	10/22/2010	1.0	<u>✓</u>		11/7/2010			

Prep Reagents		
Reagent	Supplier	Lot #
Toluene	Baker	<u>317N73</u>
Hexane	Baker	<u>727E3Y</u>
H2SO4	Baker	<u>NA</u>
20% DCM:Hexane	NA	<u>3630-74E</u>
65% DCM:Hexane	NA	<u>3630-74D</u>
1:1 DCM:Cyclohexane	NA	<u>NA</u>
75:20:5 DCM:Hexane:Benzene	NA	<u>NA</u>
Silica Gel	NA	<u>4022-7E</u>
Acid Alumina	MP	<u>79</u>
5% Carbon:Silica Gel	NA	<u>NA</u>

\* See attached sheet for sample volumes recorded from scale

Comments/NCMs: Samples GOI230491 - 9 (LVD&V-001) + -11 (LTD&3-001) were extracted and held. EOT 9/23/10

ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Internal Standard All Samples 8290/1613 Daily IS	10/31/10	ECF	JZ	9/23/10
Spike Mix LCS/LCSD/MSMS 8290/1613 Daily NS	5/26/11	ECF	JZ	9/23/10
Pre-Spike Standard MBALCO/CSD 8290/1613 Daily Surt	7/19/11	ECF	JZ	9/23/10
Recovery Standard All Samples 100XN225	6/16/11	AD	J	9/27/10
Soxhlet Extraction Analyst/Date SU/EL 9/23/10	Split/Archive Analyst/Date T.L 09/27/10	Option C Analyst/Date ---	IFB Analyst/Date T.L 09/27/10	D2 Analyst/Date ---

RQC058

TestAmerica Laboratories, Inc.  
EXTRACTION BENCH WORKSHEET

Run Date: 9/27/10  
Time: 11:27:26

LEV 1	LEV 1	Blank	Weights/Volumes	Expanded Deliverable
Y	Y	Check	Spike & Surrogate Worksheet	COC Completed
Y	Y	MS/MSD	Vial contains correct volume	Bench Sheet Copied
-	Y	-	Labels, greenbars, worksheets	Package Submitted to AnalyticalGrou
-	-	-	computer batch: correct & all match	Bench Sheet Copied per COC
-	-	-	Anomalies to Extraction Method	-

\*\*\*\*\*  
 \* QC BATCH: 02666392 \*  
 \* PREP DATE: 9/23/10 16:30  
 \* COMP DATE: 9/27/10 17:00  
 \*\*\*\*\*

Extractionist: 403162 erica X. larson

Concentrationist: 006625 Elizabeth Nguyen

Reviewer/Date: NGUYENE / 9/27/10

Dioxins/Furans, HRGC/HRMS (TO-9)  
SOXHLET (NONE, Na2SO4)

EXTR EXPR	ANL DUE	LOT# WORK ORDER	MSRUN#/ ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT WT/VOL	FIN ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION VOL	EXCHANGE VOL	SPIKE STANDARD/ SURROGATE ID	
10/20/10	9/30/10	G01230491-001	L7DQH-1-AA	R	11	IK	AIR	1.0Sample 20.00uL	NA	NA	TOLUENE	700.0	.0	2.0ML/10DXN425/8290 IS
COMMENTS:														
10/20/10	9/30/10	G01230491-003	L7DQM-1-AA	R	11	IK	AIR	1.0Sample 20.00uL	NA	NA	TOLUENE	700.0	.0	2.0ML/10DXN425/8290 IS
COMMENTS:														
10/21/10	9/30/10	G01230491-005	L7DQP-1-AA	R	11	IK	AIR	1.0Sample 20.00uL	NA	NA	TOLUENE	700.0	.0	2.0ML/10DXN425/8290 IS
COMMENTS:														
10/21/10	9/30/10	G01230491-007	L7DQR-1-AA	R	11	IK	AIR	1.0Sample 20.00uL	NA	NA	TOLUENE	700.0	.0	2.0ML/10DXN425/8290 IS
COMMENTS:														
10/21/10	9/30/10	G01230491-013	L7DQS-1-AA	R	11	IK	AIR	1.0Sample 20.00uL	NA	NA	TOLUENE	700.0	.0	2.0ML/10DXN425/8290 IS
COMMENTS:														
10/21/10	9/30/10	G01230491-015	L7DRA-1-AA	R	11	IK	AIR	1.0Sample 20.00uL	NA	NA	TOLUENE	700.0	.0	2.0ML/10DXN425/8290 IS
COMMENTS:														
10/22/10	9/30/10	G01230491-017	L7DRF-1-AA	R	11	IK	AIR	1.0Sample 20.00uL	NA	NA	TOLUENE	700.0	.0	2.0ML/10DXN425/8290 IS
COMMENTS:														

RQC058

TestAmerica Laboratories, Inc.  
EXTRACTION BENCH WORKSHEET

Run Date: 9/27/10  
Time: 11:27:26

\*\*\*\*\*  
\* QC BATCH: 0266392 \*  
\* PREP DATE: 9/23/10 16:30  
\* COMP DATE: 9/27/10 17:00  
\*\*\*\*\*

EXTR EXPR	ANL DUE	LOT# WORK ORDER	MSRUN#/ TEST FLGS	EXT MTH	MATRIX	INIT WT/VOL	PH'S ADJ1	ADJ2	EXTRACTION VOL	SOLVENTS EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
10/22/10	9/30/10	G01230491-019 L7DRH-1-AA	R	11	IK AIR	1.0sample 20.00uL	NA	NA	700.0			2.0ML/10DXN425/8290 IS
10/20/10	0/00/00	G01230000-392 L7EX6-1-AAB		11	IK AIR	1.0sample 20.00uL	NA	NA	700.0			2.00UL/10DXN429/TC-9 SUR 2.0ML/10DXN425/8290 IS
10/20/10	0/00/00	G01230000-392 L7EX6-1-ACC		11	IK AIR	1.0sample 20.00uL	NA	NA	700.0			2.0ML/10DXN148/8290 NS 2.0ML/10DXN425/8290 IS
10/20/10	0/00/00	G01230000-392 L7EX6-1-ADL	R	11	IK AIR	1.0sample 20.00uL	NA	NA	700.0			2.0ML/10DXN148/8290 NS 2.0ML/10DXN425/8290 IS

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

---

NUMBER OF WORK ORDERS IN BATCH: 11

## Preparation Data Review Checklist

Prep Batch(es) 0266392

Test: T0-9

Prep Date: 9/23/10

Holding Times: 10/20/10 NCM: **Y N**

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1. Holding times checked? NCMs filed as appropriate	✓	✓
2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)	✓	✓
3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match.	✓	NA
4. Worksheets have been checked for required spiking compounds	✓	✓
5. Spiking volumes are correctly documented	✓	✓
6. Std ID numbers on spike labels match numbers on bench sheet	✓	NA
7. Expiration dates have been checked	✓	✓
8. Calibration expiration dates on pipettors have been checked	✓	NA
9. Spiker and spike witness have signed and dated bench sheet	✓	✓
<b>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: JZ

Date: 9/27/10

2<sup>nd</sup> Level Reviewer: [Signature]

Date: 9/27/10

Comments:

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# AIR, TO-9, Dioxins/Furans

# **Raw Data Package**

## **Run/Batch Data**

***Includes (as applicable):***

***runlogs***

***continuing calibration standards***

***interference/performance check standards***

***continuing calibration blanks***

***method blanks***

***lcs***

***ms/sd***

***sample raw data***

***ms tune data***



Instrument: SV5 \_\_\_\_\_

ICAL Date: 08/23/10 \_\_\_\_\_

DFTPP ID: DFT0925

Initiator/Date: KT-09/25/10 \_\_\_\_\_

Standard ID: HSL0925

Reviewer/Date: *[Signature]* 8/27/10

NCM #: \_\_\_\_\_

**I: 8270C Criteria**

	Initiated	Reviewed
Log Book page included.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CCV compared to correct ICAL.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tune documentation is present and meets criteria.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Manual re-integrations are checked, initialed and hardcopies included.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Retention time correct for Isomers and all other analytes.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CCV Internal Standards are within 50-200% of ICAL mid-point.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Samples analyzed within 12 hours of Tune time.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tailing and degradation criteria are met.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Spot check manual integrations in Target. Analyte checked: <i>Indeno(1,2,3-cd)pyrene</i>	NA	<input checked="" type="checkbox"/>
Non-CCC ≤ 50% D	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**II: 8270C SPCC Check** SPCC RRFs must be greater than 0.050

	Initiated	Reviewed		Initiated	Reviewed
N-nitroso-di-n-propylamine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2,4-Dinitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hexachlorocyclopentadiene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4-Nitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**III: 8270C CCC Check** CCC must be ≤ 20%D (If CCC are not targets, all analytes must be <20%D.)

	Initiated	Reviewed		Initiated	Reviewed
Phenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Acenaphthene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1,4-Dichlorobenzene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N-nitrosodiphenylamine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2-Nitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Pentachlorophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2,4-Dinitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Flouranthene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hexachlorobutadiene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Di-n-octyl phthalate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4-Chloro-3-methylphenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Benzo(a)pyrene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2,4,6-Trichlorophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

**IV: AFCEE 3.1 and 4.0 QAPP Criteria**

	Initiated	Reviewed
All analytes in CCV +/- 20%D compared to ICAL.	<input type="checkbox"/> NA	<input type="checkbox"/>
CCV and Sample Internal Standards are within 50-200% of ICAL mid-point.	<input type="checkbox"/> NA	<input type="checkbox"/> NA
Are the compounds which required manual integrations documented in the MI spreadsheet?	<input type="checkbox"/> NA	<input type="checkbox"/> NA

### V: DOD OSM V3 Criteria

	Initiated	Reviewed
For 8270, CCCs must be $\leq 20\%$ D.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RRFs for SPCCs must meet minimum response factor criteria	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CCV and sample Internal Standards are within 50-200% of ICAL mid-point.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SIM: All analytes must be $\leq 20\%$	<input type="checkbox"/> NA	<input checked="" type="checkbox"/>
Are the compounds which required manual integrations documented in the MI spreadsheet?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Notes:

GC/MS INSTRUMENT LOG  
SEMI-VOLATILES

Method Key (MTH Column)

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

Inst ID : sv5.i  
 Batch ID : 092510.B  
 ICAL Date: See Calib Report  
 See raw data for standard IDs

Date	Time	USER	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	MTH	Comments
25-SEP-2010	13:31	KT	Primer	QC001.D	NA	NA	NA		
25-SEP-2010	13:55	KT	DFTTP 50ug/ml	DFT0925.D	NA	NA	NA		
25-SEP-2010	14:15	KT	HSL_050 ug/ml CS-4	HSL0925.D	NA	NA	NA		
25-SEP-2010	14:49	KT	L7EX41AA G0I230000-389B	S092501.D	1000 Sa	1 mL	1	JZ	
25-SEP-2010	15:15	KT	L6T7L1CE G0I100612-9	S092502.D	30.03 g	1 mL	1	QL	
25-SEP-2010	15:41	KT	L6T7P1AD G0I100612-12	S092503.D	30.03 g	1 mL	1	QL	
25-SEP-2010	16:07	KT	L6T7Q1CE G0I100612-13	S092504.D	30.06 g	1 mL	1	QL	
25-SEP-2010	16:33	KT	L6T7R1AD G0I100612-14	S092505.D	29.26 g	1 mL	1	QL	
25-SEP-2010	16:59	KT	L6T7T1CE G0I100612-15	S092506.D	30.63 g	1 mL	1	QL	
25-SEP-2010	17:25	KT	L6T7V1AD G0I100612-16	S092507.D	29.51 g	1 mL	1	QL	High I-S
25-SEP-2010	17:51	KT	L7EX41AC G0I230000-389C	S092508.D	1000 Sa	1 mL	1	JZ	
25-SEP-2010	18:17	KT	L7EX41AD G0I230000-389L	S092509.D	1000 Sa	1 mL	1	JZ	
25-SEP-2010	18:43	KT	L7DQK1AA G0I230491-2	S092510.D	1000 Sa	1 mL	1	JZ	
25-SEP-2010	19:09	KT	L7DQN1AA G0I230491-4	S092511.D	1000 Sa	1 mL	1	JZ	
25-SEP-2010	19:35	KT	L7DQQ1AA G0I230491-6	S092512.D	1000 Sa	1 mL	1	JZ	
25-SEP-2010	20:01	KT	L7DQT1AA G0I230491-8	S092513.D	1000 Sa	1 mL	1	JZ	
25-SEP-2010	20:27	KT	L7DQ91AA G0I230491-14	S092514.D	1000 Sa	1 mL	1	JZ	
25-SEP-2010	20:53	KT	L7DRCLAA G0I230491-16	S092515.D	1000 Sa	1 mL	1	JZ	
25-SEP-2010	21:19	KT	L7DRG1AA G0I230491-18	S092516.D	1000 Sa	1 mL	1	JZ	
25-SEP-2010	21:45	KT	L7DRJ1AA G0I230491-20	S092517.D	1000 Sa	1 mL	1	JZ	
25-SEP-2010	22:11	KT	L6T7V1AD G0I100612-16 RI	S092518.D	29.51 g	1 mL	1	QL	high I-S
25-SEP-2010	22:37	KT	L7EX41AC G0I230000-389C RI	S092519.D	1000 Sa	1 mL	1	JZ	
25-SEP-2010	23:03	KT	L7DQK1AA G0I230491-2 RI	S092520.D	1000 Sa	1 mL	1	JZ	low surf. comp
25-SEP-2010	23:29	KT	L7DQN1AA G0I230491-4 RI	S092521.D	1000 Sa	1 mL	1	JZ	
25-SEP-2010	23:55	KT	L7DQQ1AA G0I230491-6 RI	S092522.D	1000 Sa	1 mL	1	JZ	
26-SEP-2010	00:21	KT	L7DQT1AA G0I230491-8 RI	S092523.D	1000 Sa	1 mL	1	JZ	
26-SEP-2010	00:47	KT	L7DQ91AA G0I230491-14 RI	S092524.D	1000 Sa	1 mL	1	JZ	
26-SEP-2010	01:13	KT	L7DRCLAA G0I230491-16 RI	S092525.D	1000 Sa	1 mL	1	JZ	
26-SEP-2010	01:39	KT	L7DRG1AA G0I230491-18 RI	S092526.D	1000 Sa	1 mL	1	JZ	
26-SEP-2010	02:05	KT	L7DRJ1AA G0I230491-20 RI	S092527.D	1000 Sa	1 mL	1	JZ	

9/27/10

TestAmerica West Sacramento  
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 25-SEP-2010 14:15  
 Lab File ID: HSL0925.D Init. Cal. Date(s): 17-AUG-2010 23-AUG-2010  
 Analysis Type: Init. Cal. Times: 17:32 18:50  
 Lab Sample ID: HSL\_050 ug/ml CS-4 Quant Type: ISTD  
 Method: \\sv5\c\chem\sv5.i\092510.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
7 2-Fluorophenol	1.47923	1.43682	1.43682	0.010	-2.86681	50.00000	Averaged
8 Phenol-d5	1.89473	1.87234	1.87234	0.010	-1.18183	50.00000	Averaged
9 2-Chlorophenol-d4	1.59813	1.59431	1.59431	0.010	-0.23915	50.00000	Averaged
10 1,2-Dichlorobenzene-d4	0.99431	1.02355	1.02355	0.010	2.94049	50.00000	Averaged
11 Nitrobenzene-d5	0.35699	0.33839	0.33839	0.010	-5.20905	50.00000	Averaged
12 2-Fluorobiphenyl	1.26594	1.28056	1.28056	0.010	1.15503	50.00000	Averaged
13 2,4,6-Tribromophenol	0.15648	0.18541	0.18541	0.010	18.48531	50.00000	Averaged
14 Terphenyl-d14	0.77396	0.79846	0.79846	0.010	3.16524	50.00000	Averaged
15 N-Nitrosodimethylamine	1.01809	0.96198	0.96198	0.010	-5.51107	50.00000	Averaged
16 Pyridine	1.68687	1.50964	1.50964	0.010	-10.50661	50.00000	Averaged
23 Aniline	2.37259	2.32232	2.32232	0.010	-2.11882	50.00000	Averaged
24 Phenol	1.99436	2.10267	2.10267	0.010	5.43052	20.00000	Averaged
26 Bis(2-chloroethyl) ether	1.52541	1.45330	1.45330	0.010	-4.72722	50.00000	Averaged
27 2-Chlorophenol	1.58023	1.59539	1.59539	0.010	0.95973	50.00000	Averaged
28 1,3-Dichlorobenzene	1.74334	1.73351	1.73351	0.010	-0.56387	50.00000	Averaged
29 1,4-Dichlorobenzene	1.76599	1.80571	1.80571	0.010	2.24962	20.00000	Averaged
30 Benzyl Alcohol	1.08397	1.10881	1.10881	0.010	2.29231	50.00000	Averaged
31 1,2-Dichlorobenzene	1.66769	1.66624	1.66624	0.010	-0.08666	50.00000	Averaged
32 2-Methylphenol	1.48902	1.46604	1.46604	0.010	-1.54359	50.00000	Averaged
33 2,2'-oxybis(1-Chloropropane	2.90571	2.24627	2.24627	0.010	-22.69468	50.00000	Averaged
34 4-Methylphenol	1.58517	1.58046	1.58046	0.010	-0.29710	50.00000	Averaged
36 Hexachloroethane	0.62210	0.61540	0.61540	0.010	-1.07762	50.00000	Averaged
37 N-Nitrosodipropylamine	1.11560	1.04234	1.04234	0.050	-6.56686	50.00000	Averaged
42 Nitrobenzene	0.35575	0.33818	0.33818	0.010	-4.93881	50.00000	Averaged
44 Isophorone	0.67537	0.63964	0.63964	0.010	-5.28979	50.00000	Averaged
45 2-Nitrophenol	0.19133	0.20358	0.20358	0.010	6.40382	20.00000	Averaged
46 2,4-Dimethylphenol	0.35866	0.34987	0.34987	0.010	-2.45093	50.00000	Averaged
47 Bis(2-chloroethoxy)methane	0.40130	0.37980	0.37980	0.010	-5.35855	50.00000	Averaged
49 2,4-Dichlorophenol	0.26143	0.27155	0.27155	0.010	3.87366	20.00000	Averaged
50 Benzoic Acid	0.20092	0.20899	0.20899	0.010	4.01671	50.00000	Averaged
51 1,2,4-Trichlorobenzene	0.28301	0.29939	0.29939	0.010	5.78761	50.00000	Averaged
52 Naphthalene	1.11324	1.10248	1.10248	0.010	-0.96651	50.00000	Averaged
54 4-Chloroaniline	0.43919	0.43798	0.43798	0.010	-0.27483	50.00000	Averaged
57 Hexachlorobutadiene	0.13411	0.14769	0.14769	0.010	10.12738	20.00000	Averaged
60 4-Chloro-3-Methylphenol	0.30380	0.31045	0.31045	0.010	2.18777	20.00000	Averaged
63 2-Methylnaphthalene	0.67962	0.69247	0.69247	0.010	1.89081	50.00000	Averaged
66 Hexachlorocyclopentadiene	0.30646	0.32433	0.32433	0.050	5.83126	50.00000	Averaged
69 2,4,6-Trichlorophenol	0.30154	0.33048	0.33048	0.010	9.59875	20.00000	Averaged
70 2,4,5-Trichlorophenol	0.32858	0.35688	0.35688	0.010	8.61392	50.00000	Averaged
71 2-Chloronaphthalene	1.11567	1.12156	1.12156	0.010	0.52843	50.00000	Averaged
73 2-Nitroaniline	0.38116	0.34781	0.34781	0.010	-8.74872	50.00000	Averaged
76 Dimethylphthalate	1.29156	1.31862	1.31862	0.010	2.09545	50.00000	Averaged

Manual calculation for Indeno(1,2,3-cd)pyrene:  
 $\frac{715201}{601187} \times \frac{40}{50} = 0.95172$  R 9/27/10

9/25/10

TestAmerica West Sacramento  
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 25-SEP-2010 14:15  
 Lab File ID: HSL0925.D Init. Cal. Date(s): 17-AUG-2010 23-AUG-2010  
 Analysis Type: Init. Cal. Times: 17:32 18:50  
 Lab Sample ID: HSL\_050 ug/ml CS-4 Quant Type: ISTD  
 Method: \\sv5\c\chem\sv5.i\092510.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
77 Acenaphthylene	1.95828	1.97838	1.97838	0.010	1.02644	50.00000	Averaged
79 2,6-Dinitrotoluene	0.28888	0.31446	0.31446	0.010	8.85252	50.00000	Averaged
80 3-Nitroaniline	0.38296	0.40380	0.40380	0.010	5.44308	50.00000	Averaged
81 Acenaphthene	1.24672	1.24392	1.24392	0.010	-0.22415	20.00000	Averaged
82 2,4-Dinitrophenol	50.00000	56.19949	0.19829	0.050	12.39898	0.000e+000	Quadratic
83 Dibenzofuran	1.64538	1.63360	1.63360	0.010	-0.71561	50.00000	Averaged
84 4-Nitrophenol	0.17088	0.17011	0.17011	0.050	-0.44704	50.00000	Averaged
86 2,4-Dinitrotoluene	0.38742	0.40715	0.40715	0.010	5.09121	50.00000	Averaged
91 Fluorene	1.34904	1.40424	1.40424	0.010	4.09177	50.00000	Averaged
92 Diethylphthalate	1.35372	1.36062	1.36062	0.010	0.50969	50.00000	Averaged
93 4-Chlorophenyl-phenylether	0.55385	0.58611	0.58611	0.010	5.82463	50.00000	Averaged
94 4-Nitroaniline	0.37837	0.38465	0.38465	0.010	1.65891	50.00000	Averaged
97 4,6-Dinitro-2-methylphenol	50.00000	51.46909	0.14892	0.010	2.93819	0.000e+000	Linear
98 N-Nitrosodiphenylamine	0.62622	0.60719	0.60719	0.010	-3.03819	20.00000	Averaged
100 Azobenzene	0.88363	0.78725	0.78725	0.010	-10.90746	50.00000	Averaged
101 4-Bromophenyl-phenylether	0.19190	0.19921	0.19921	0.010	3.81128	50.00000	Averaged
108 Hexachlorobenzene	0.20744	0.21690	0.21690	0.010	4.55655	50.00000	Averaged
110 Pentachlorophenol	0.12850	0.13547	0.13547	0.010	5.42214	20.00000	Averaged
114 Phenanthrene	1.25231	1.23620	1.23620	0.010	-1.28624	50.00000	Averaged
115 Anthracene	1.26014	1.29887	1.29887	0.010	3.07372	50.00000	Averaged
118 Carbazole	1.17754	1.16125	1.16125	0.010	-1.38345	50.00000	Averaged
120 Di-n-Butylphthalate	1.42590	1.44748	1.44748	0.010	1.51305	50.00000	Averaged
126 Fluoranthene	1.13179	1.15210	1.15210	0.010	1.79434	20.00000	Averaged
127 Benzidine	0.82752	0.86833	0.86833	0.010	4.93201	50.00000	Averaged
128 Pyrene	1.24186	1.28582	1.28582	0.010	3.53999	50.00000	Averaged
134 3,3'-dimethylbenzidine	0.70995	0.74423	0.74423	0.010	4.82941	50.00000	Averaged
136 Butylbenzylphthalate	0.64263	0.64111	0.64111	0.010	-0.23672	50.00000	Averaged
138 Benzo(a)Anthracene	1.05752	1.07983	1.07983	0.010	2.10948	50.00000	Averaged
139 Chrysene	1.09407	1.07278	1.07278	0.010	-1.94566	50.00000	Averaged
140 3,3'-Dichlorobenzidine	0.38440	0.40467	0.40467	0.010	5.27319	50.00000	Averaged
141 bis(2-ethylhexyl) Phthalate	0.88842	0.89749	0.89749	0.010	1.02143	50.00000	Averaged
142 Di-n-octylphthalate	1.42876	1.48759	1.48759	0.010	4.11755	20.00000	Averaged
144 Benzo(b)fluoranthene	0.94959	0.95472	0.95472	0.010	0.53962	50.00000	Averaged
145 Benzo(k)fluoranthene	1.11337	1.12801	1.12801	0.010	1.31508	50.00000	Averaged
147 Benzo(e)pyrene	0.94145	0.95337	0.95337	0.010	1.26582	50.00000	Averaged
148 Benzo(a)pyrene	1.03915	1.04624	1.04624	0.010	0.68258	20.00000	Averaged
151 Indeno(1,2,3-cd)pyrene	0.88334	0.95172	0.95172	0.010	7.74122	50.00000	Averaged
152 Dibenzo(a,h)anthracene	0.94269	0.99596	0.99596	0.010	5.65159	50.00000	Averaged
153 Benzo(g,h,i)perylene	1.00655	1.05112	1.05112	0.010	4.42730	50.00000	Averaged
M 162 benzo b,k Fluoranthene Tota	2.06296	2.08273	2.08273	0.010	0.95813	50.00000	Averaged

TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\092510.B\HSL0925.D  
 Lab Smp Id: HSL\_050 ug/ml CS-4 Client Smp ID: 8270F.M  
 Inj Date : 25-SEP-2010 14:15  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL\_050 ug/ml CS-4;2;;4;;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0310;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\092510.B\8270f.m  
 Meth Date : 25-Sep-2010 17:53 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 97 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

Compounds	QUANT	SIG	AMOUNTS				ON-COL	
			MASS	RT	EXP RT	REL RT		RESPONSE
* 1 1,4-Dichlorobenzene-d4	152		3.992	3.992	(1.000)	159130	40.0000	
* 2 Naphthalene-d8	136		5.412	5.412	(1.000)	700815	40.0000	
* 3 Acenaphthene-d10	164		7.516	7.516	(1.000)	378407	40.0000	
* 4 Phenanthrene-d10	188		9.454	9.454	(1.000)	604130	40.0000	
* 5 Chrysene-d12	240		13.848	13.848	(1.000)	603640	40.0000	
* 6 Perylene-d12	264		16.231	16.231	(1.000)	601187	40.0000	
\$ 7 2-Fluorophenol	112		2.769	2.769	(0.694)	285802	50.0000	48.57
\$ 8 Phenol-d5	99		3.650	3.650	(0.914)	372432	50.0000	49.41
\$ 9 2-Chlorophenol-d4	132		3.785	3.785	(0.948)	317128	50.0000	49.88
\$ 10 1,2-Dichlorobenzene-d4	152		4.200	4.200	(1.052)	203597	50.0000	51.47
\$ 11 Nitrobenzene-d5	82		4.614	4.614	(0.853)	296437	50.0000	47.40
\$ 12 2-Fluorobiphenyl	172		6.718	6.718	(0.894)	605718	50.0000	50.58
\$ 13 2,4,6-Tribromophenol	330		8.521	8.521	(1.134)	87699	50.0000	59.24
\$ 14 Terphenyl-d14	244		12.075	12.075	(0.872)	602476	50.0000	51.58
15 N-Nitrosodimethylamine	74		1.744	1.744	(0.437)	191350	50.0000	47.24
16 Pyridine	79		1.764	1.764	(0.442)	300286	50.0000	44.75
23 Aniline	93		3.692	3.692	(0.925)	461938	50.0000	48.94
24 Phenol	94		3.661	3.661	(0.917)	418247	50.0000	52.72
26 Bis(2-chloroethyl)ether	93		3.754	3.754	(0.940)	289079	50.0000	47.64
27 2-Chlorophenol	128		3.806	3.806	(0.953)	317344	50.0000	50.48
28 1,3-Dichlorobenzene	146		3.951	3.951	(0.990)	344817	50.0000	49.72
29 1,4-Dichlorobenzene	146		4.013	4.013	(1.005)	359179	50.0000	51.12
30 Benzyl Alcohol	108		4.158	4.158	(1.042)	220557	50.0000	51.15
31 1,2-Dichlorobenzene	146		4.210	4.210	(1.055)	331436	50.0000	49.96
32 2-Methylphenol	108		4.293	4.293	(1.075)	291613	50.0000	49.23
33 2,2'-oxybis(1-Chloropropane)	45		4.334	4.334	(1.086)	446811	50.0000	38.65
34 4-Methylphenol	108		4.459	4.459	(1.117)	314373	50.0000	49.85
36 Hexachloroethane	117		4.542	4.542	(1.138)	122410	50.0000	49.46
37 N-Nitrosodipropylamine	70		4.479	4.479	(1.122)	207334	50.0000	46.72
42 Nitrobenzene	77		4.635	4.635	(0.856)	296253	50.0000	47.53
44 Isophorone	82		4.894	4.894	(0.904)	560340	50.0000	47.36
45 2-Nitrophenol	139		4.998	4.998	(0.923)	178341	50.0000	53.20
46 2,4-Dimethylphenol	107		5.049	5.049	(0.933)	306490	50.0000	48.77

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.163	5.163	(0.954)	332712	50.0000	47.32
49 2,4-Dichlorophenol	162	5.267	5.267	(0.973)	237886	50.0000	51.94
50 Benzoic Acid	122	5.163	5.163	(0.954)	183081	50.0000	52.01
51 1,2,4-Trichlorobenzene	180	5.360	5.360	(0.990)	262272	50.0000	52.89
52 Naphthalene	128	5.433	5.433	(1.004)	965790	50.0000	49.52
54 4-Chloroaniline	127	5.526	5.526	(1.021)	383682	50.0000	49.86
57 Hexachlorobutadiene	225	5.650	5.650	(1.044)	129383	50.0000	55.06
60 4-Chloro-3-Methylphenol	107	6.106	6.106	(1.128)	271960	50.0000	51.09
63 2-Methylnaphthalene	142	6.241	6.241	(1.153)	606618	50.0000	50.94
66 Hexachlorocyclopentadiene	237	6.521	6.521	(0.868)	153413	50.0000	52.92
69 2,4,6-Trichlorophenol	196	6.625	6.625	(0.881)	156322	50.0000	54.80
70 2,4,5-Trichlorophenol	196	6.666	6.666	(0.887)	168807	50.0000	54.31
71 2-Chloronaphthalene	162	6.821	6.821	(0.908)	530510	50.0000	50.26
73 2-Nitroaniline	65	6.987	6.987	(0.930)	164519	50.0000	45.62
76 Dimethylphthalate	163	7.267	7.267	(0.967)	623720	50.0000	51.05
77 Acenaphthylene	152	7.329	7.329	(0.975)	935790	50.0000	50.51
79 2,6-Dinitrotoluene	165	7.340	7.340	(0.977)	148740	50.0000	54.43
80 3-Nitroaniline	138	7.495	7.495	(0.997)	191003	50.0000	52.72
81 Acenaphthene	153	7.547	7.547	(1.004)	588387	50.0000	49.89
82 2,4-Dinitrophenol	184	7.619	7.619	(1.014)	93793	50.0000	56.20
83 Dibenzofuran	168	7.744	7.744	(1.030)	772709	50.0000	49.64
84 4-Nitrophenol	109	7.713	7.713	(1.026)	80465	50.0000	49.78
86 2,4-Dinitrotoluene	165	7.806	7.806	(1.039)	192584	50.0000	52.54
91 Fluorene	166	8.179	8.179	(1.088)	664216	50.0000	52.04
92 Diethylphthalate	149	8.148	8.148	(1.084)	643586	50.0000	50.25
93 4-Chlorophenyl-phenylether	204	8.200	8.200	(1.091)	277233	50.0000	52.91
94 4-Nitroaniline	138	8.262	8.262	(1.099)	181942	50.0000	50.83
97 4,6-Dinitro-2-methylphenol	198	8.324	8.324	(0.881)	112459	50.0000	51.47
98 N-Nitrosodiphenylamine	169	8.366	8.366	(0.885)	537394	58.6000	56.82
100 Azobenzene	77	8.397	8.397	(0.888)	594503	50.0000	44.55
101 4-Bromophenyl-phenylether	248	8.842	8.842	(0.935)	150438	50.0000	51.90
108 Hexachlorobenzene	284	9.029	9.029	(0.955)	163791	50.0000	52.28
110 Pentachlorophenol	266	9.288	9.288	(0.982)	102299	50.0000	52.71
114 Phenanthrene	178	9.485	9.485	(1.003)	933532	50.0000	49.36
115 Anthracene	178	9.557	9.557	(1.011)	980861	50.0000	51.54
118 Carbazole	167	9.816	9.816	(1.038)	876929	50.0000	49.31
120 Di-n-Butylphthalate	149	10.511	10.511	(1.112)	1093082	50.0000	50.76
126 Fluoranthene	202	11.360	11.360	(1.202)	870019	50.0000	50.90
127 Benzidine	184	11.630	11.630	(0.840)	655199	50.0000	52.47
128 Pyrene	202	11.723	11.723	(0.847)	970214	50.0000	51.77
134 3,3'-dimethylbenzidine	212	12.925	12.925	(0.933)	561562	50.0000	52.41
136 Butylbenzylphthalate	149	13.039	13.039	(0.942)	483751	50.0000	49.88
138 Benzo(a)Anthracene	228	13.816	13.816	(0.998)	814788	50.0000	51.05
139 Chrysene	228	13.889	13.889	(1.003)	809466	50.0000	49.03
140 3,3'-Dichlorobenzidine	252	13.858	13.858	(1.001)	305345	50.0000	52.64
141 bis(2-ethylhexyl)Phthalate	149	14.169	14.169	(1.023)	677203	50.0000	50.51
142 Di-n-octylphthalate	149	15.215	15.215	(1.099)	1122460	50.0000	52.06
144 Benzo(b)fluoranthene	252	15.640	15.640	(0.964)	717453	50.0000	50.27
145 Benzo(k)fluoranthene	252	15.682	15.682	(0.966)	847682	50.0000	50.66
147 Benzo(e)pyrene	252	16.065	16.065	(0.990)	716442	50.0000	50.63
148 Benzo(a)pyrene	252	16.138	16.138	(0.994)	786231	50.0000	50.34
151 Indeno(1,2,3-cd)pyrene	276	17.879	17.879	(1.102)	715201	50.0000	53.87 (M)
152 Dibenzo(a,h)anthracene	278	17.931	17.931	(1.105)	748451	50.0000	52.82
153 Benzo(g,h,i)perylene	276	18.324	18.324	(1.129)	789896	50.0000	52.21

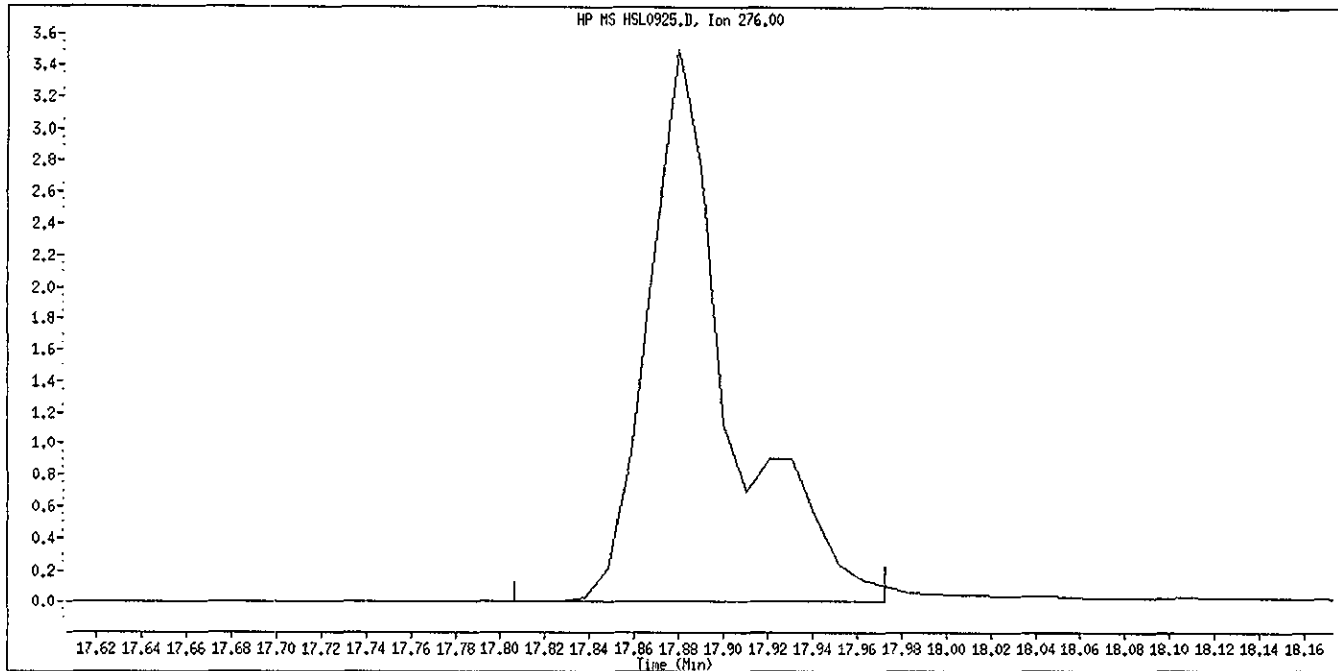
Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS					CAL-AMT	ON-COL
=====	=====	=====	=====	=====	=====	=====	
M 162 benzo b,k Fluoranthene Totals	252				1565135	50.0000	

QC Flag Legend

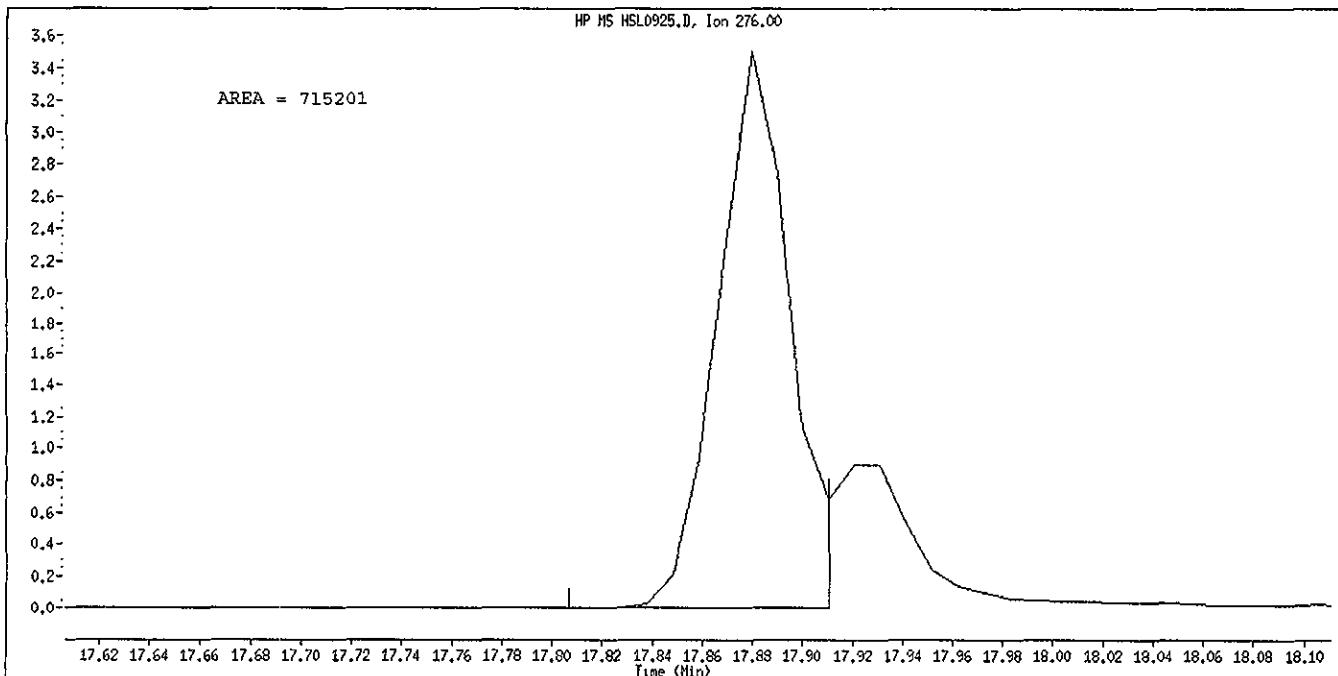
M - Compound response manually integrated.



Data File Name: HSL0925.D  
Inj. Date and Time: 25-SEP-2010 14:15  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 09/25/2010



Original Integration



Manual Integration

Manually Integrated By: truongk  
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\092510.B\HSL0925.D  
 Lab Smp Id: HSL\_050 ug/ml CS-4 Client Smp ID: 8270F.M  
 Inj Date : 25-SEP-2010 14:15  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL\_050 ug/ml CS-4;2;;4;;;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0310;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\092510.B\8270f.m  
 Meth Date : 25-Sep-2010 14:41 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 97 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SV5

Compounds	QUANT	SIG	AMOUNTS				CAL-AMT ( NG)	ON-COL ( NG)
			MASS	RT	EXP RT	REL RT		
* 1 1,4-Dichlorobenzene-d4	152		3.992	3.992	(1.000)	159130	40.0000	
* 2 Naphthalene-d8	136		5.412	5.412	(1.000)	700815	40.0000	
* 3 Acenaphthene-d10	164		7.516	7.516	(1.000)	378407	40.0000	
* 4 Phenanthrene-d10	188		9.454	9.454	(1.000)	604130	40.0000	
* 5 Chrysene-d12	240		13.848	13.848	(1.000)	603640	40.0000	
* 6 Perylene-d12	264		16.231	16.231	(1.000)	601187	40.0000	
\$ 7 2-Fluorophenol	112		2.769	2.769	(0.694)	285802	50.0000	48.57
\$ 8 Phenol-d5	99		3.650	3.650	(0.914)	372432	50.0000	49.41
\$ 9 2-Chlorophenol-d4	132		3.785	3.785	(0.948)	317128	50.0000	49.88
\$ 10 1,2-Dichlorobenzene-d4	152		4.200	4.200	(1.052)	203597	50.0000	51.47
\$ 11 Nitrobenzene-d5	82		4.614	4.614	(0.853)	296437	50.0000	47.40
\$ 12 2-Fluorobiphenyl	172		6.718	6.718	(0.894)	605718	50.0000	50.58
\$ 13 2,4,6-Tribromophenol	330		8.521	8.521	(1.134)	87699	50.0000	59.24
\$ 14 Terphenyl-d14	244		12.075	12.075	(0.872)	602476	50.0000	51.58
15 N-Nitrosodimethylamine	74		1.744	1.744	(0.437)	191350	50.0000	47.24
16 Pyridine	79		1.764	1.764	(0.442)	300286	50.0000	44.75
23 Aniline	93		3.692	3.692	(0.925)	461938	50.0000	48.94
24 Phenol	94		3.661	3.661	(0.917)	418247	50.0000	52.72
26 Bis(2-chloroethyl) ether	93		3.754	3.754	(0.940)	289079	50.0000	47.64
27 2-Chlorophenol	128		3.806	3.806	(0.953)	317344	50.0000	50.48
28 1,3-Dichlorobenzene	146		3.951	3.951	(0.990)	344817	50.0000	49.72
29 1,4-Dichlorobenzene	146		4.013	4.013	(1.005)	359179	50.0000	51.12
30 Benzyl Alcohol	108		4.158	4.158	(1.042)	220557	50.0000	51.15
31 1,2-Dichlorobenzene	146		4.210	4.210	(1.055)	331436	50.0000	49.96
32 2-Methylphenol	108		4.293	4.293	(1.075)	291613	50.0000	49.23
33 2,2'-oxybis(1-Chloropropane)	45		4.334	4.334	(1.086)	446811	50.0000	38.65
34 4-Methylphenol	108		4.459	4.459	(1.117)	314373	50.0000	49.85
36 Hexachloroethane	117		4.542	4.542	(1.138)	122410	50.0000	49.46
37 N-Nitrosodipropylamine	70		4.479	4.479	(1.122)	207334	50.0000	46.72
42 Nitrobenzene	77		4.635	4.635	(0.856)	296253	50.0000	47.53
44 Isophorone	82		4.894	4.894	(0.904)	560340	50.0000	47.36
45 2-Nitrophenol	139		4.998	4.998	(0.923)	178341	50.0000	53.20
46 2,4-Dimethylphenol	107		5.049	5.049	(0.933)	306490	50.0000	48.77

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.163	5.163	(0.954)	332712	50.0000	47.32
49 2,4-Dichlorophenol	162	5.267	5.267	(0.973)	237886	50.0000	51.94
50 Benzoic Acid	122	5.163	5.163	(0.954)	183081	50.0000	52.01
51 1,2,4-Trichlorobenzene	180	5.360	5.360	(0.990)	262272	50.0000	52.89
52 Naphthalene	128	5.433	5.433	(1.004)	965790	50.0000	49.52
54 4-Chloroaniline	127	5.526	5.526	(1.021)	383682	50.0000	49.86
57 Hexachlorobutadiene	225	5.650	5.650	(1.044)	129383	50.0000	55.06
60 4-Chloro-3-Methylphenol	107	6.106	6.106	(1.128)	271960	50.0000	51.09
63 2-Methylnaphthalene	142	6.241	6.241	(1.153)	606618	50.0000	50.94
66 Hexachlorocyclopentadiene	237	6.521	6.521	(0.868)	153413	50.0000	52.92
69 2,4,6-Trichlorophenol	196	6.625	6.625	(0.881)	156322	50.0000	54.80
70 2,4,5-Trichlorophenol	196	6.666	6.666	(0.887)	168807	50.0000	54.31
71 2-Chloronaphthalene	162	6.821	6.821	(0.908)	530510	50.0000	50.26
73 2-Nitroaniline	65	6.987	6.987	(0.930)	164519	50.0000	45.62
76 Dimethylphthalate	163	7.267	7.267	(0.967)	623720	50.0000	51.05
77 Acenaphthylene	152	7.329	7.329	(0.975)	935790	50.0000	50.51
79 2,6-Dinitrotoluene	165	7.340	7.340	(0.977)	148740	50.0000	54.43
80 3-Nitroaniline	138	7.495	7.495	(0.997)	191003	50.0000	52.72
81 Acenaphthene	153	7.547	7.547	(1.004)	588387	50.0000	49.89
82 2,4-Dinitrophenol	184	7.619	7.619	(1.014)	93793	50.0000	56.20
83 Dibenzofuran	168	7.744	7.744	(1.030)	772709	50.0000	49.64
84 4-Nitrophenol	109	7.713	7.713	(1.026)	80465	50.0000	49.78
86 2,4-Dinitrotoluene	165	7.806	7.806	(1.039)	192584	50.0000	52.54
91 Fluorene	166	8.179	8.179	(1.088)	664216	50.0000	52.04
92 Diethylphthalate	149	8.148	8.148	(1.084)	643586	50.0000	50.25
93 4-Chlorophenyl-phenylether	204	8.200	8.200	(1.091)	277233	50.0000	52.91
94 4-Nitroaniline	138	8.262	8.262	(1.099)	181942	50.0000	50.83
97 4,6-Dinitro-2-methylphenol	198	8.324	8.324	(0.881)	112459	50.0000	51.47
98 N-Nitrosodiphenylamine	169	8.366	8.366	(0.885)	537394	58.6000	56.82
100 Azobenzene	77	8.397	8.397	(0.888)	594503	50.0000	44.55
101 4-Bromophenyl-phenylether	248	8.842	8.842	(0.935)	150438	50.0000	51.90
108 Hexachlorobenzene	284	9.029	9.029	(0.955)	163791	50.0000	52.28
110 Pentachlorophenol	266	9.288	9.288	(0.982)	102299	50.0000	52.71
114 Phenanthrene	178	9.485	9.485	(1.003)	933532	50.0000	49.36
115 Anthracene	178	9.557	9.557	(1.011)	980861	50.0000	51.54
118 Carbazole	167	9.816	9.816	(1.038)	876929	50.0000	49.31
120 Di-n-Butylphthalate	149	10.511	10.511	(1.112)	1093082	50.0000	50.76
126 Fluoranthene	202	11.360	11.360	(1.202)	870019	50.0000	50.90
127 Benzidine	184	11.630	11.630	(0.840)	655199	50.0000	52.47
128 Pyrene	202	11.723	11.723	(0.847)	970214	50.0000	51.77
134 3,3'-dimethylbenzidine	212	12.925	12.925	(0.933)	561562	50.0000	52.41
136 Butylbenzylphthalate	149	13.039	13.039	(0.942)	483751	50.0000	49.88
138 Benzo(a)Anthracene	228	13.816	13.816	(0.998)	814788	50.0000	51.05
139 Chrysene	228	13.889	13.889	(1.003)	809466	50.0000	49.03
140 3,3'-Dichlorobenzidine	252	13.858	13.858	(1.001)	305345	50.0000	52.64
141 bis(2-ethylhexyl)Phthalate	149	14.169	14.169	(1.023)	677203	50.0000	50.51
142 Di-n-octylphthalate	149	15.215	15.215	(1.099)	1122460	50.0000	52.06
144 Benzo(b)fluoranthene	252	15.640	15.640	(0.964)	717453	50.0000	50.27
145 Benzo(k)fluoranthene	252	15.682	15.682	(0.966)	847682	50.0000	50.66
147 Benzo(e)pyrene	252	16.065	16.065	(0.990)	716442	50.0000	50.63
148 Benzo(a)pyrene	252	16.138	16.138	(0.994)	786231	50.0000	50.34
151 Indeno(1,2,3-cd)pyrene	276	17.879	17.879	(1.102)	885453	50.0000	66.69
152 Dibenzo(a,h)anthracene	278	17.931	17.931	(1.105)	748451	50.0000	52.82
153 Benzo(g,h,i)perylene	276	18.324	18.324	(1.129)	789896	50.0000	52.21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
===== M 162 benzo b,k Fluoranthene Totals	==== 252	====	=====	=====	===== 1565135	===== 50.0000	===== 50.48 (A)

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL0925.D  
 Lab Smp Id: HSL 050 ug/ml CS-4  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\SV5\C\chem\sv5.i\092510.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0310;0;8270F.M

Calibration Date: 24-SEP-2010  
 Calibration Time: 11:19  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

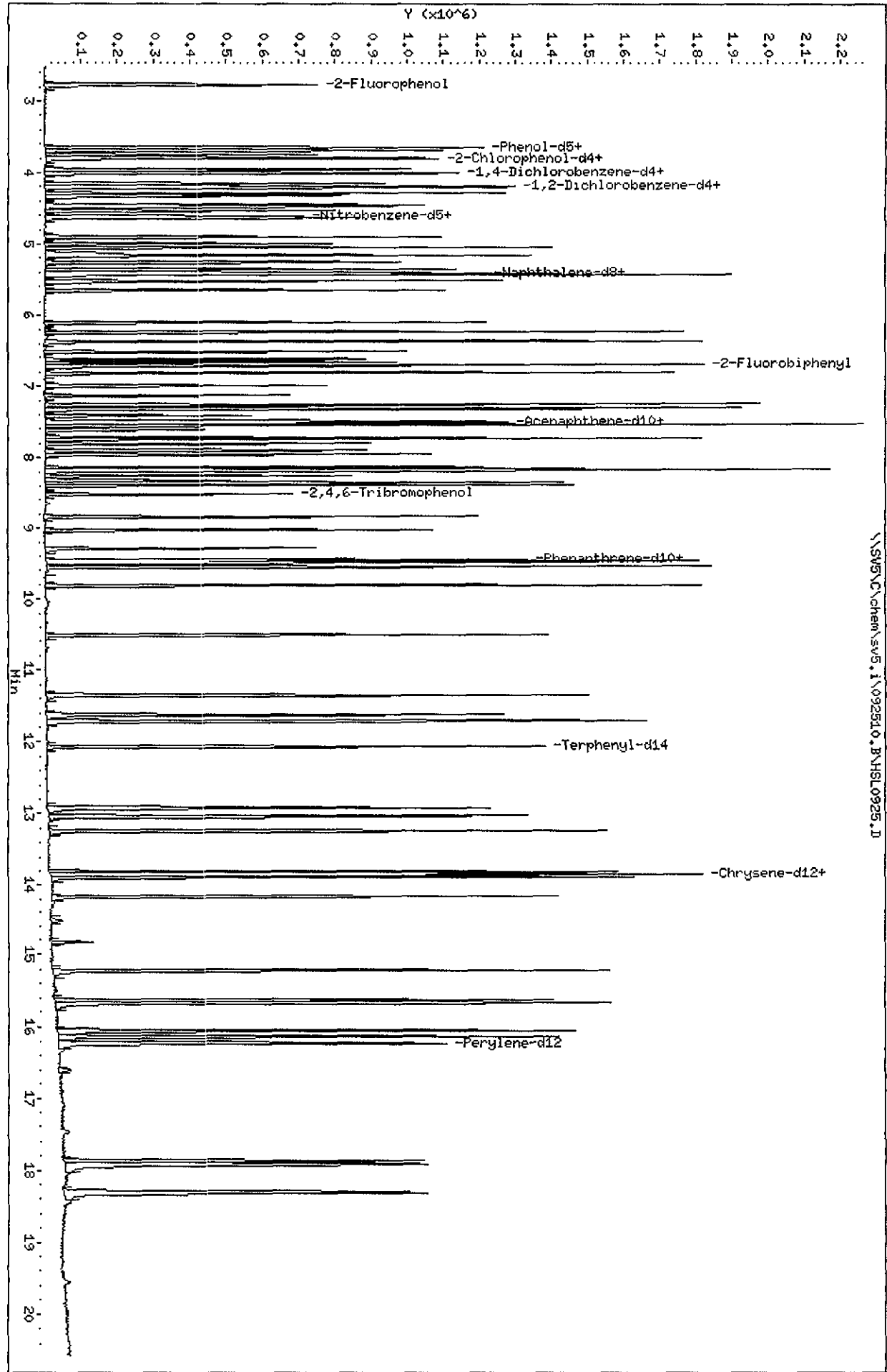
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	159130	41.58
2 Naphthalene-d8	494728	247364	989456	700815	41.66
3 Acenaphthene-d10	264752	132376	529504	378407	42.93
4 Phenanthrene-d10	415811	207906	831622	604130	45.29
5 Chrysene-d12	431516	215758	863032	603640	39.89
6 Perylene-d12	416460	208230	832920	601187	44.36

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.99	3.49	4.49	3.99	0.00
2 Naphthalene-d8	5.41	4.91	5.91	5.41	0.00
3 Acenaphthene-d10	7.52	7.02	8.02	7.52	0.00
4 Phenanthrene-d10	9.45	8.95	9.95	9.45	0.00
5 Chrysene-d12	13.85	13.35	14.35	13.85	0.00
6 Perylene-d12	16.23	15.73	16.73	16.23	0.00

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

Data File: \\SVS\C\chem\sv5.1\092510.B\HSL0925.D  
 Date: 25-SEP-2010 14:15  
 Client ID: 8270F.H  
 Sample Info: HSL\_050 ug/ml CS-4;2;4;4;4;4  
 Column phase:

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



\\SVS\C\chem\sv5.1\092510.B\HSL0925.D

TAILING FACTOR/DEGRADATION SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.4874414	5.000	PASS
Benzidine	0.4542447	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	509586	13.2	20.5	PASS

Sample //SV5/C/chem/sv5.i/092510.B/DFT0925.D/DFT0925.D

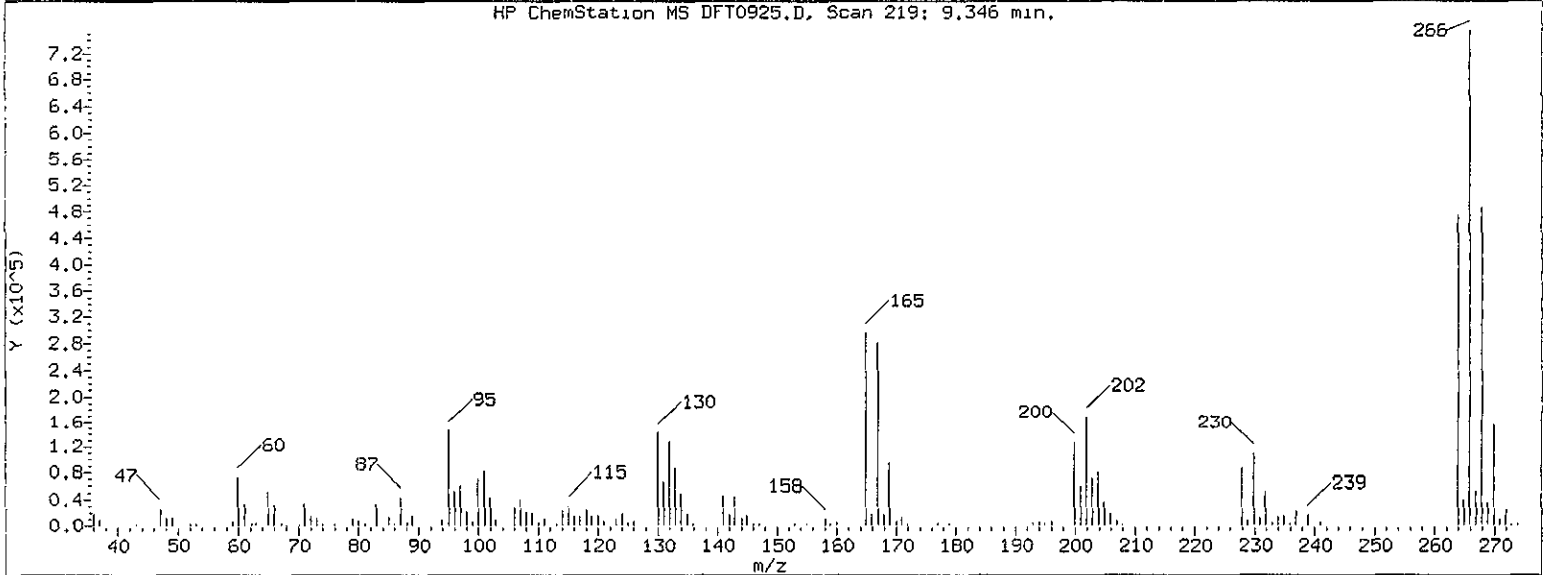
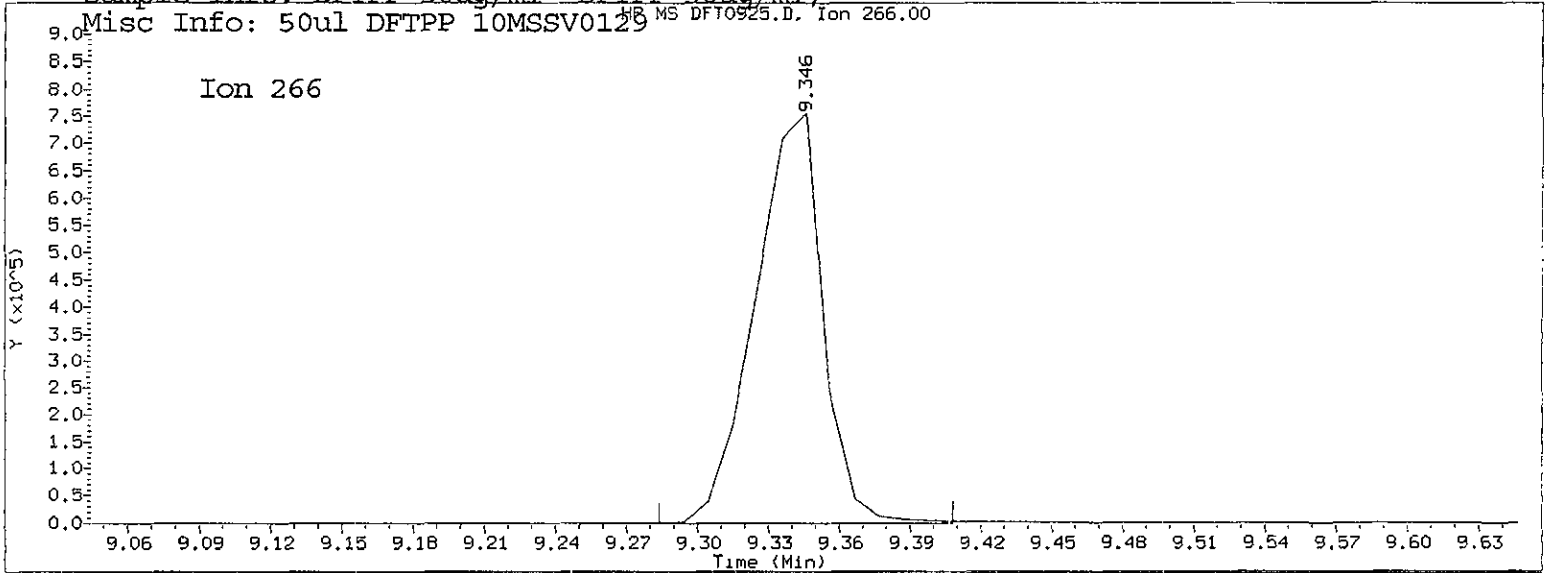
\*\*\*\*\*  
 \*\*\* PASSED \*\*\*  
 \*\*\*\*\*

*Handwritten:*  
 ✓  
 9/25/10

TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 09/25/2010 14:29

Datafile Analyzed: //SV5/C/chem/sv5.i/092510.B/DFT0925.D/DFT0925.D  
Method Used: \\SV5\C\chem\sv5.i\092510.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 25-SEP-2010 13:55 Operator: KT  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



Pentachlorophenol

=====  
Exp. RT = 9.387  
Found RT = 9.346

Time1 = 9.307131      Time2 = 9.34595      Time3 = 9.364872  
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

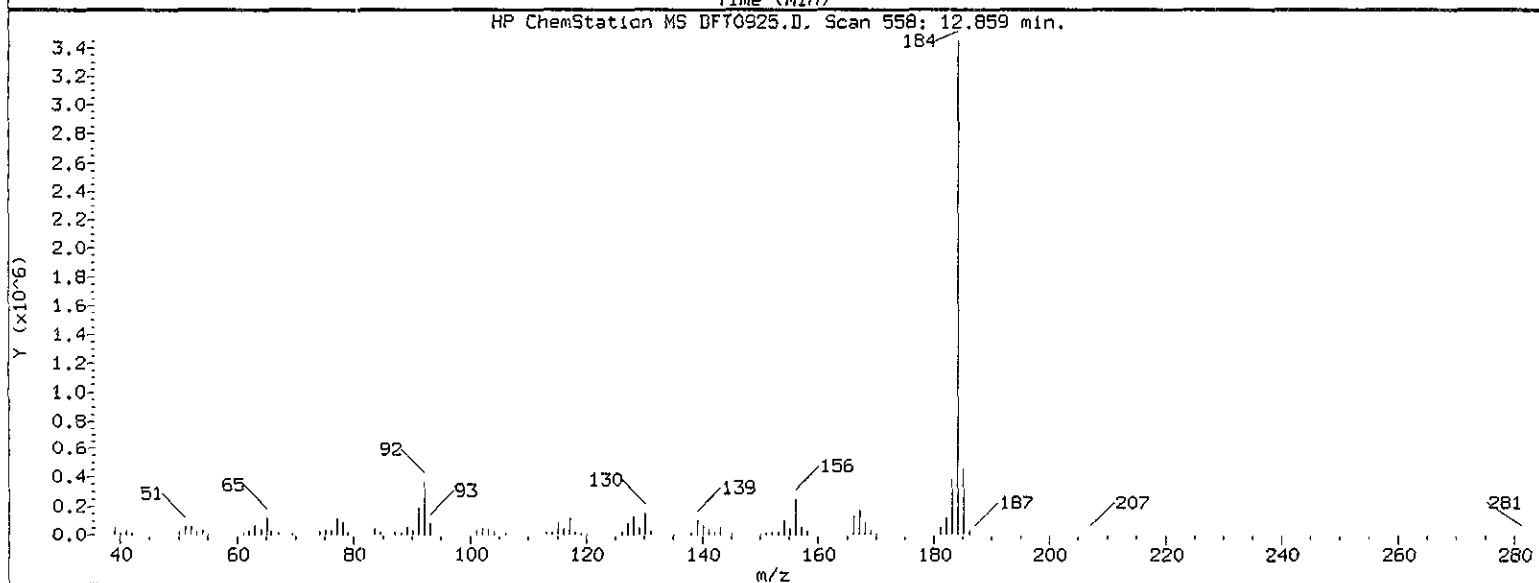
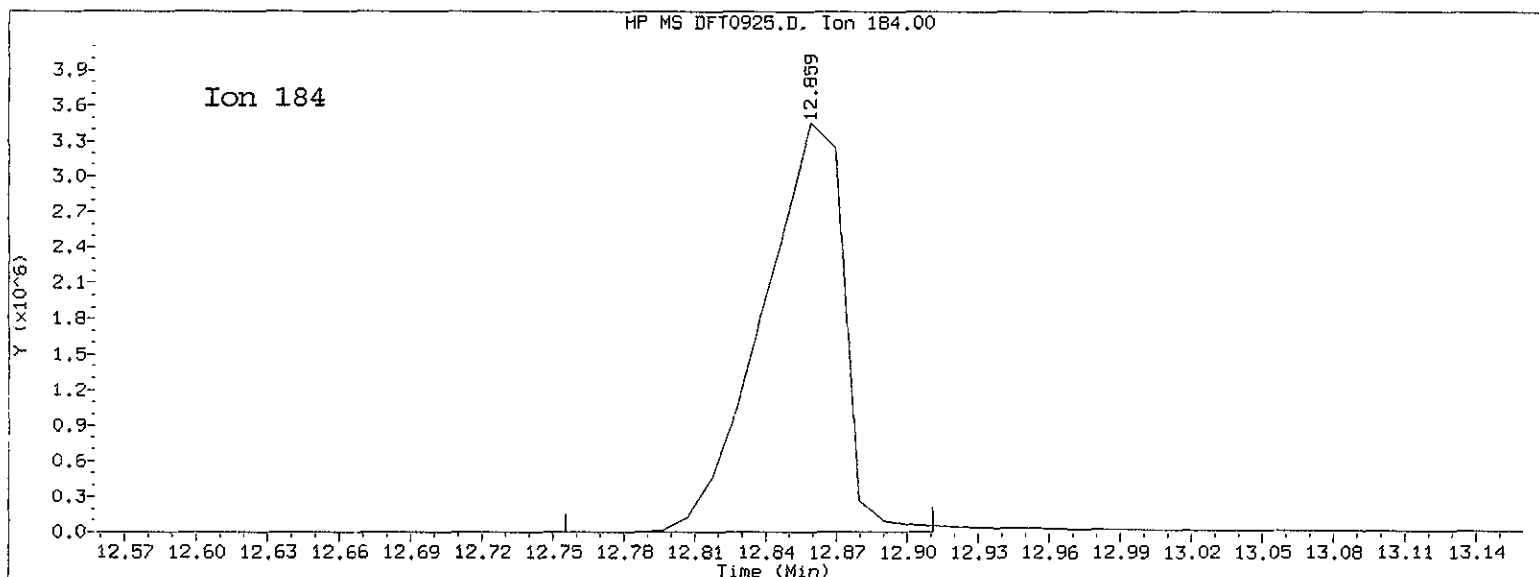
Tailing factor for Pentachlorophenol OK

Tail Factor = 0.487      Maximum Allowed = 5.0



Report Date: 09/25/2010 14:29

Datafile Analyzed: //SV5/C/chem/sv5.i/092510.B/DFT0925.D/DFT0925.D  
Method Used: \\SV5\C\chem\sv5.i\092510.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 25-SEP-2010 13:55 Operator: KT  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



Benzidine

=====

Exp. RT = 12.911

Found RT = 12.859

Time1 = 12.814 Time2 = 12.85902 Time3 = 12.87946

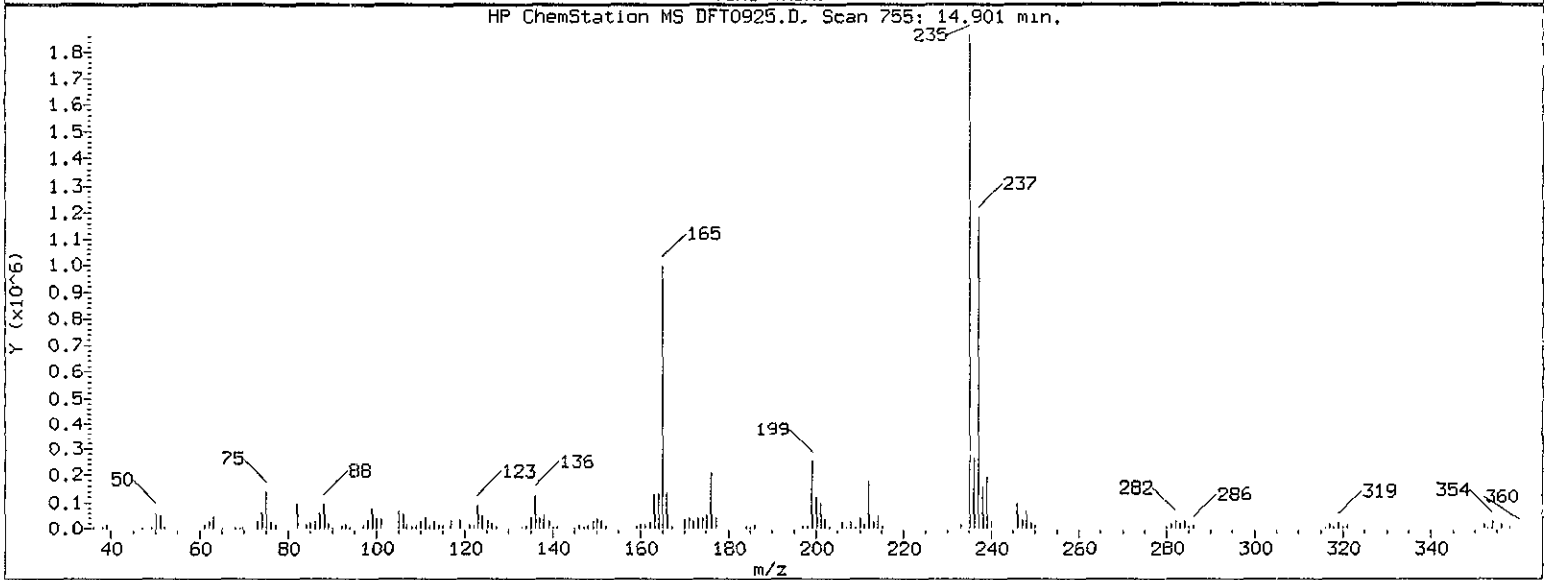
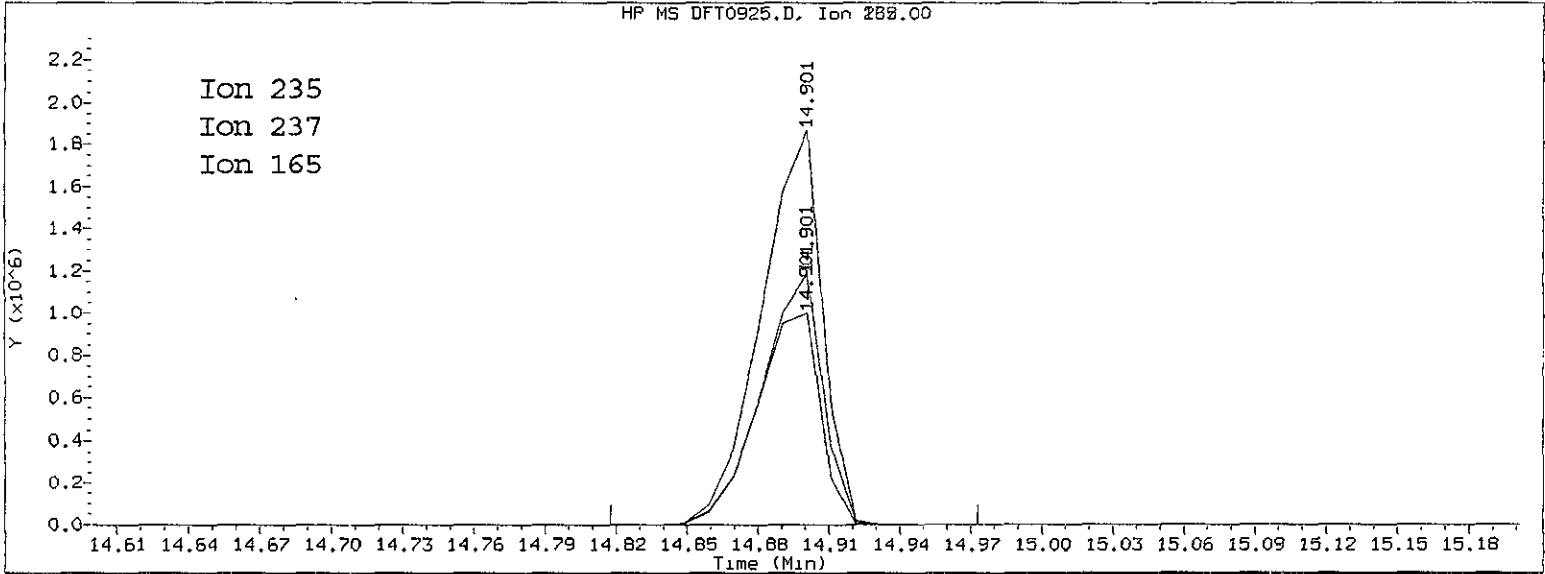
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Benzidine OK

Tail Factor = 0.454 Maximum Allowed = 3.0

Report Date: 09/25/2010 14:29

Datafile Analyzed: //SV5/C/chem/sv5.i/092510.B/DFT0925.D/DFT0925.D  
Method Used: \\SV5\C\chem\sv5.i\092510.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 25-SEP-2010 13:55 Operator: KT  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



4,4'-DDT

=====

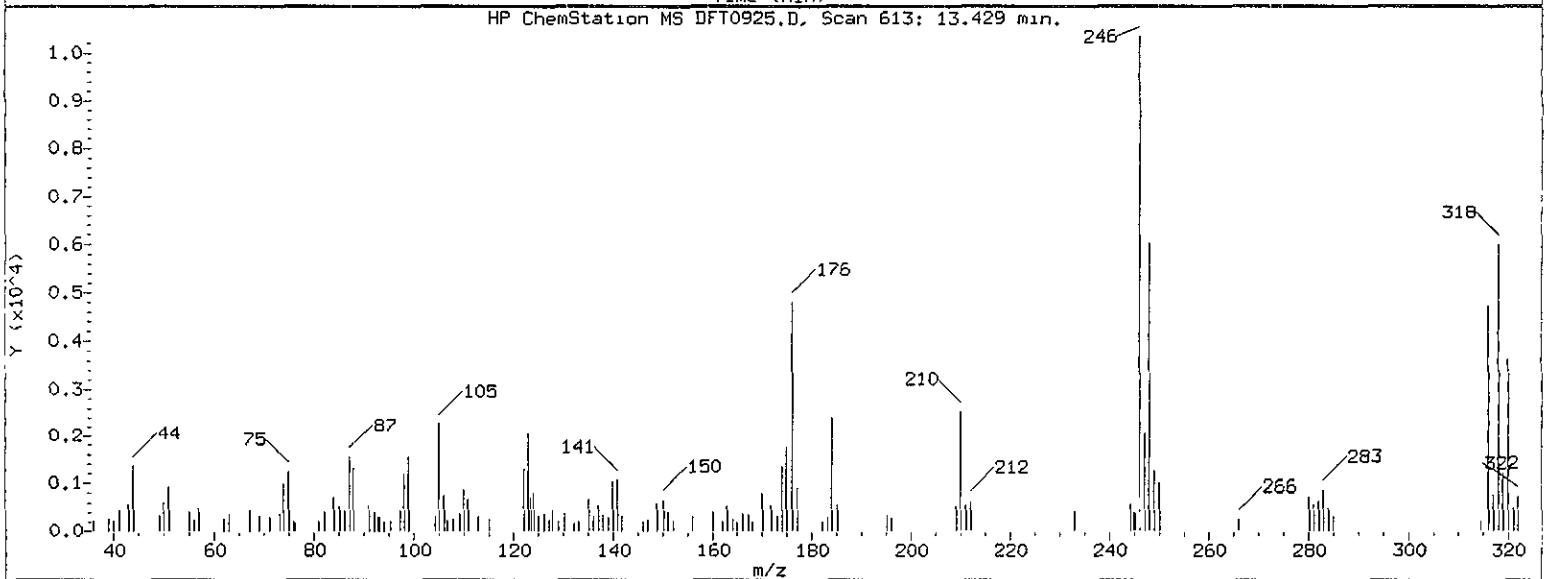
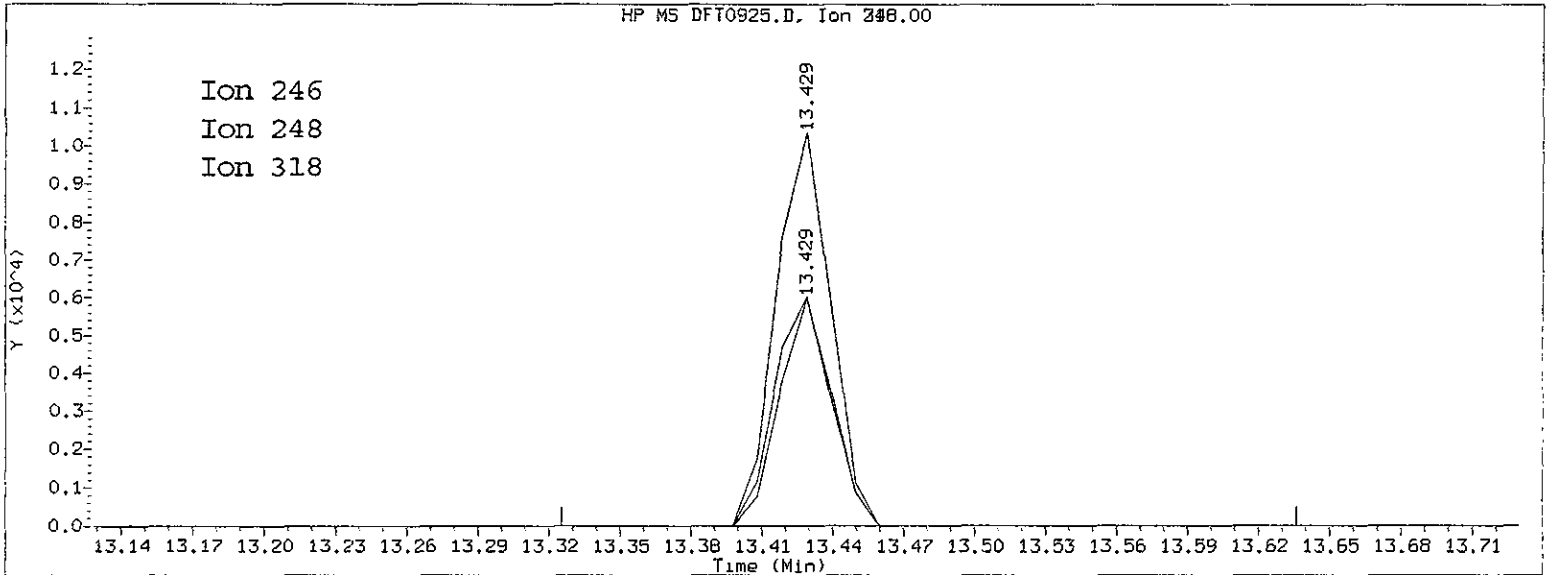
Exp. RT = 14.942

Found RT = 14.901

Mass	Area	Ratio
235	3355131	100.00
237	2132882	63.57
165	1889253	56.31

Report Date: 09/25/2010 14:29

Datafile Analyzed: //SV5/C/chem/sv5.i/092510.B/DFT0925.D/DFT0925.D  
Method Used: \\SV5\C\chem\sv5.i\092510.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 25-SEP-2010 13:55 Operator: KT  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



4,4'-DDE

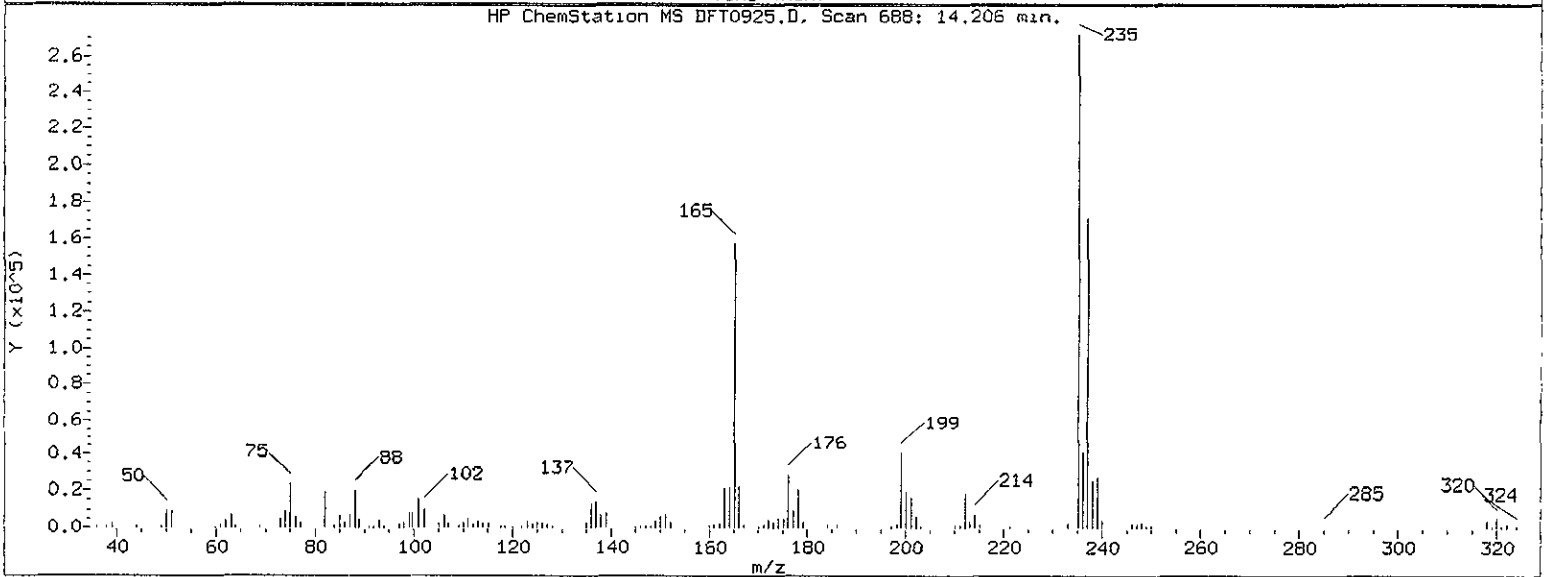
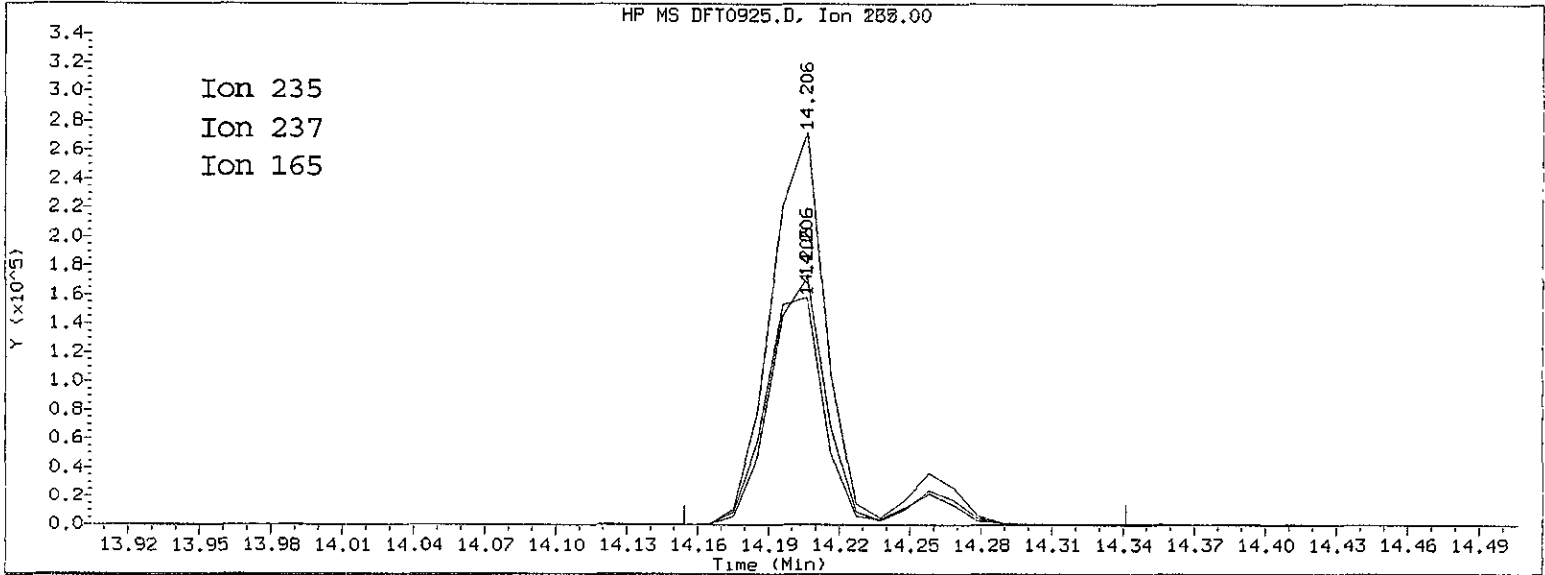
=====

Exp. RT = 13.470  
Found RT = 13.429

Mass	Area	Ratio
246	16624	100.00
248	10029	60.33
318	9317	56.05

Report Date: 09/25/2010 14:29

Datafile Analyzed: //SV5/C/chem/sv5.i/092510.B/DFT0925.D/DFT0925.D  
Method Used: \\SV5\C\chem\sv5.i\092510.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 25-SEP-2010 13:55 Operator: KT  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



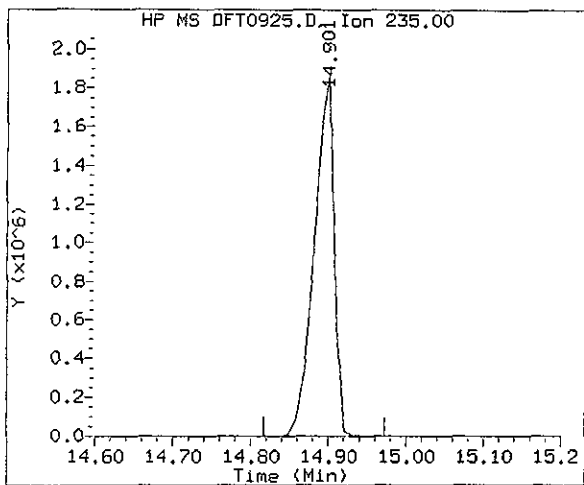
4,4'-DDD

=====

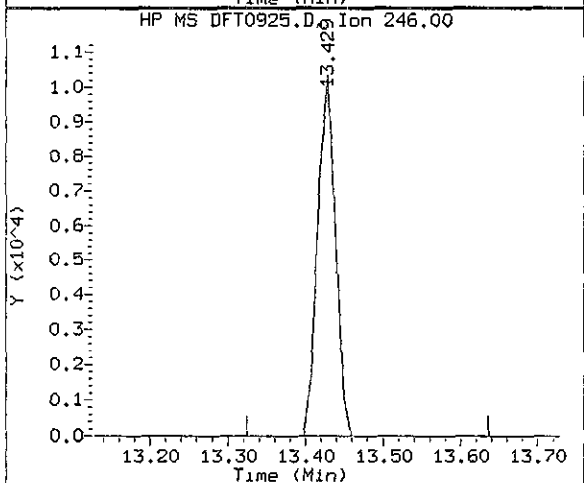
Exp. RT = 14.248

Found RT = 14.206

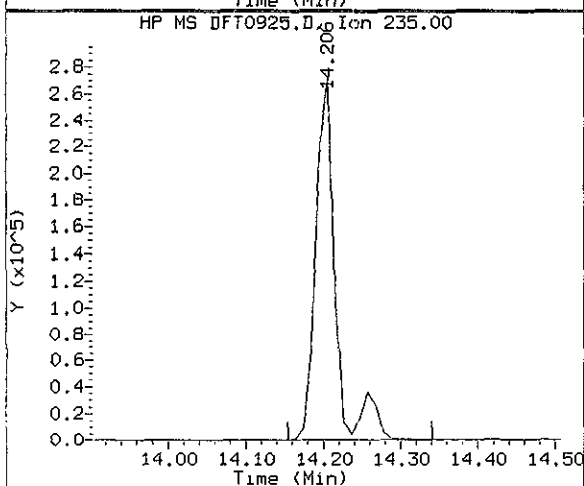
Mass	Area	Ratio
235	492962	100.00
237	315490	64.00
165	303055	61.48



Compound: 4,4'-DDT  
 Quant Mass: 235  
 RT: 14.901  
 Area: 3355131



Compound: 4,4'-DDE  
 Quant Mass: 246  
 RT: 13.429  
 Area: 16624



Compound: 4,4'-DDD  
 Quant Mass: 235  
 RT: 14.206  
 Area: 492962

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	509586	13.2	20.5	PASS

TestAmerica West Sacramento

Data file : \\SV5\C\chem\sv5.i\092510.B\DFT0925.D  
 Lab Smp Id: DFTPP 50ug/ml  
 Inj Date : 25-SEP-2010 13:55  
 Operator : KT Inst ID: sv5.i  
 Smp Info : DFTPP 50ug/ml;  
 Misc Info : 50ul DFTPP 10MSSV0129  
 Comment :  
 Method : \\SV5\C\chem\sv5.i\092510.B\DFTPP.m  
 Meth Date : 17-Aug-2010 14:10 scotts Quant Type: ISTD  
 Cal Date : Cal File:  
 Als bottle: 96 QC Sample: DFTPP  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 4.14 Sample Matrix: None  
 Processing Host: SV5

CONCENTRATIONS									
		ON-COL		FINAL		TARGET RANGE		RATIO	
RT	EXP RT	REL RT	MASS	RESPONSE	( ug/L)	( ug/L)			
----	-----	-----	----	-----	-----	-----	-----	-----	-----
1 dftpp					CAS #: 5074-71-5				
10.786	11.201	( 0.000)	198	1058304			0.00- 100.00		100.00
10.786	11.201	( 0.000)	51	438016			30.00- 80.00		41.39
10.786	11.201	( 0.000)	68	7040			0.00- 2.00		1.67
10.786	11.201	( 0.000)	69	422336			0.00- 0.00		39.91
10.786	11.201	( 0.000)	70	2407			0.00- 2.00		0.57
10.786	11.201	( 0.000)	127	583936			25.00- 75.00		55.18
10.786	11.201	( 0.000)	197	0	0.0	0.0	0.00- 1.00		0.00
10.786	11.201	( 0.000)	199	67096			5.00- 9.00		6.34
10.786	11.201	( 0.000)	275	239168			10.00- 30.00		22.60
10.786	11.201	( 0.000)	365	29752			0.75- 0.00		2.81
10.786	11.201	( 0.000)	441	142400			0.01- 99.99		74.76
10.786	11.201	( 0.000)	442	998784			40.00- 110.00		94.38
10.786	11.201	( 0.000)	443	190464			15.00- 24.00		19.07

Date : 25-SEP-2010 13:55

Client ID:

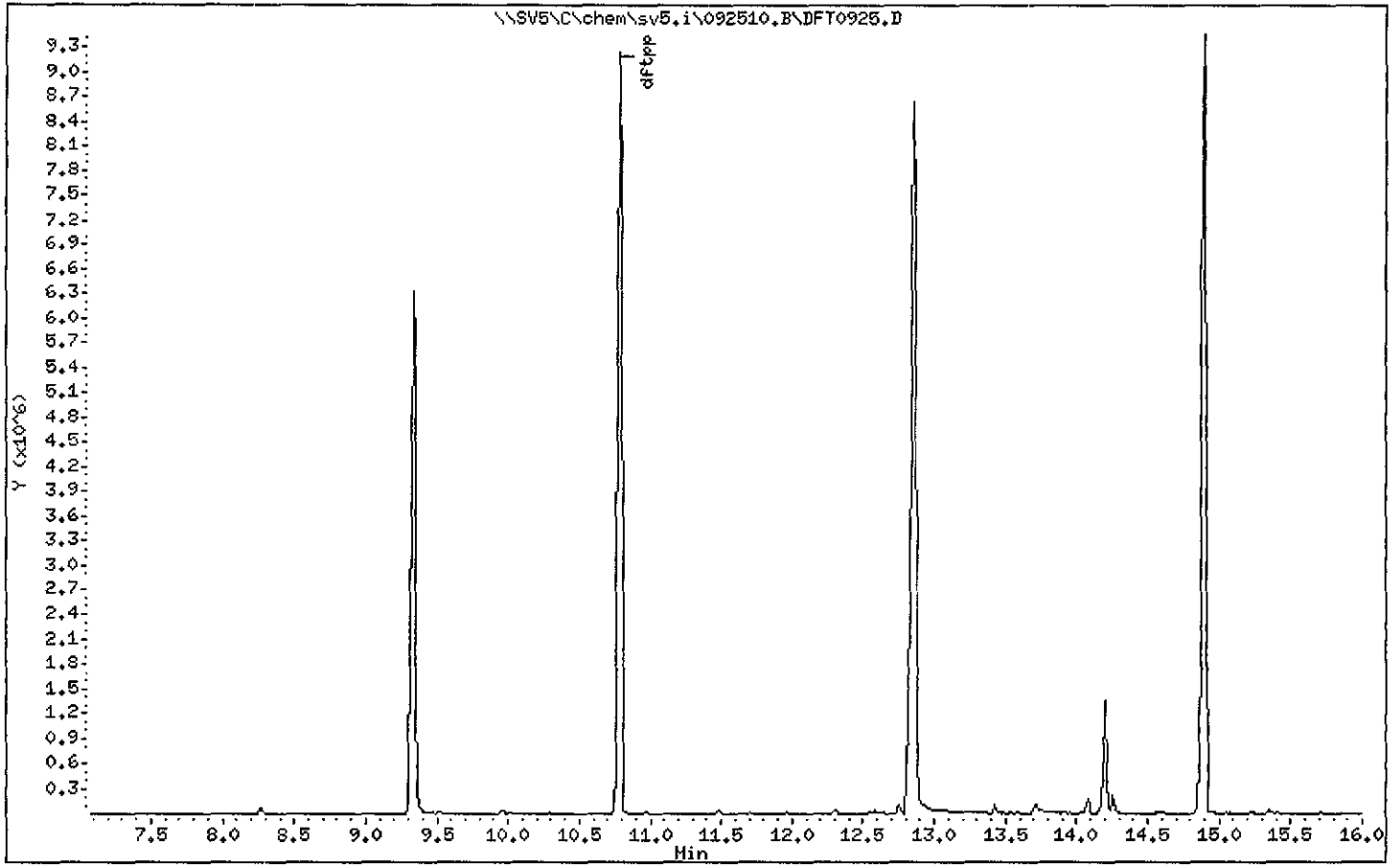
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2,00



Date : 25-SEP-2010 13:55

Client ID:

Instrument: sv5.i

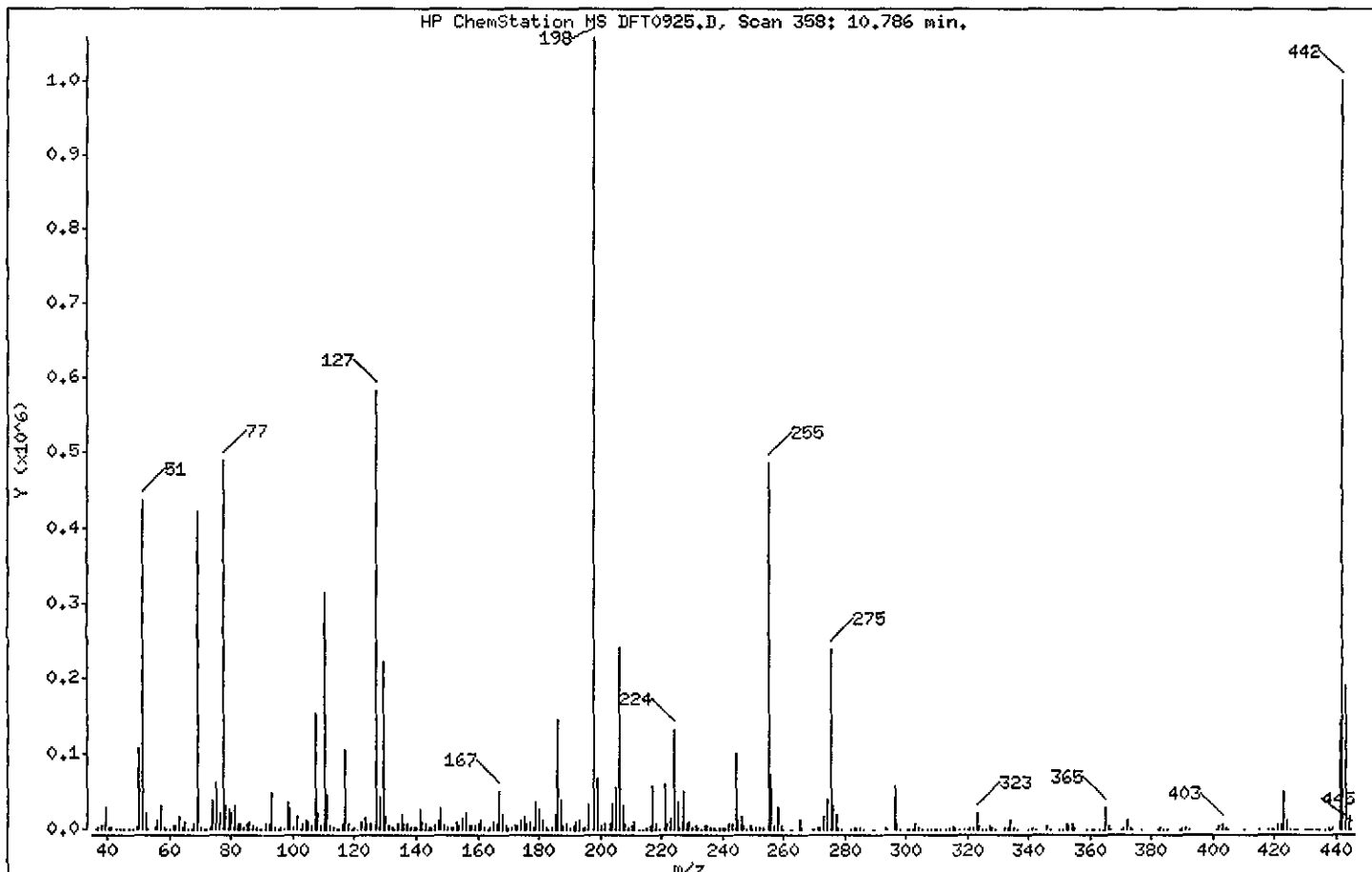
Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	41.39
68	Less than 2.00% of mass 69	0.67 ( 1.67)
69	Mass 69 relative abundance	39.91
70	Less than 2.00% of mass 69	0.23 ( 0.57)
127	25.00 - 75.00% of mass 198	55.18
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.34
275	10.00 - 30.00% of mass 198	22.60
365	Greater than 0.75% of mass 198	2.81
441	Present, but less than mass 443	13.46
442	40.00 - 110.00% of mass 198	94.38
443	15.00 - 24.00% of mass 442	18.00 ( 19.07)



Date : 25-SEP-2010 13:55

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT0925.D  
 Spectrum: HP ChemStation MS DFT0925.D, Scan 358: 10.786 min.  
 Location of Maximum: 198.00  
 Number of points: 352

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	352	129.00	221568	221.10	61496	321.00	1866
37.00	1250	130.00	18200	222.00	7812	322.00	1499
38.10	4392	131.00	3664	223.00	14345	323.10	21464
39.10	29336	132.00	1625	224.10	132096	324.00	3667
40.10	1537	132.50	665	225.10	35616	325.00	416
41.10	1243	133.10	842	226.10	2951	325.90	299
42.90	284	134.00	6209	227.00	50704	327.00	4074
44.00	726	135.00	18800	228.00	7098	328.00	1937
45.10	567	136.10	6701	229.00	9367	328.90	350
46.90	336	137.10	8173	230.10	1442	332.10	1512
48.10	388	138.00	1842	231.10	5979	333.10	2082
49.10	3198	139.10	1266	232.10	1266	334.10	13121
50.10	106624	140.10	2506	233.00	786	335.10	3396
51.10	438016	141.00	26912	234.00	3808	336.00	571
52.10	20912	142.00	9229	235.00	3711	340.10	365
53.00	1184	143.00	6913	236.00	2451	341.10	2362
55.10	2067	144.10	1516	237.10	3456	342.00	785
56.00	12282	145.00	2171	238.00	755	346.00	4421
57.00	31104	146.00	4299	239.00	1918	347.00	869
58.00	1619	147.00	12899	240.00	1407	350.00	203
59.00	244	148.00	28296	241.00	3125	351.20	397
59.90	260	149.00	5532	242.10	7715	352.10	6199
61.00	5402	150.00	1569	243.10	7698	353.00	4526
62.10	5646	151.10	3390	244.10	99632	354.10	8154
63.00	16544	152.10	1801	245.10	12933	355.00	1506
64.00	1991	153.00	8667	246.00	17568	359.00	581
65.10	10112	154.00	5549	247.00	4754	360.80	366
66.00	419	155.10	14181	247.90	608	361.40	249
67.10	758	156.10	23024	249.00	3703	363.10	315
68.10	7040	157.10	4405	250.00	1014	364.00	658
69.00	422336	158.00	4292	251.10	1793	365.00	29752
70.00	2407	159.10	4081	252.00	1306	366.00	4048
71.10	485	160.00	8491	253.10	3137	366.90	272
72.20	257	161.10	11505	255.00	486912	370.10	848
73.00	2574	162.00	3396	256.00	72048	371.10	1678

Date : 25-SEP-2010 13:55

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT0925.D  
 Spectrum: HP ChemStation MS DFT0925.D, Scan 358; 10.786 min.  
 Location of Maximum: 198.00  
 Number of points: 352

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	38640	163.10	865	257.00	5676	372.10	12189
75.00	64096	164.00	1970	258.00	29816	373.10	3210
76.10	23048	165.00	9028	259.10	4470	374.10	347
77.10	488832	166.00	8334	260.00	860	376.80	399
78.10	31912	167.00	50232	261.00	930	382.10	222
79.00	27856	168.00	18752	262.30	244	383.00	3570
80.00	20752	169.10	3677	263.00	243	384.10	989
81.00	32144	170.00	1831	264.00	783	385.00	247
82.00	8100	170.80	1935	265.10	11179	389.20	380
83.00	7988	172.00	4034	265.90	1491	390.00	1669
84.10	1374	173.00	5173	268.40	246	391.00	1507
85.00	6338	174.00	11116	269.30	480	392.10	1135
86.00	9233	175.00	17960	269.90	609	401.00	740
87.10	3873	176.00	6481	271.00	1365	402.00	4780
88.00	1422	177.00	9455	272.10	1859	403.00	7547
89.00	963	178.10	3538	273.00	16301	404.10	2414
90.00	470	179.00	36904	274.00	41400	405.10	328
91.00	7534	180.10	26192	275.10	239168	410.00	446
92.00	7365	181.00	12695	276.10	32048	414.90	490
93.00	49240	182.10	1855	277.00	18840	418.20	247
94.10	3307	183.10	1038	278.00	3281	418.90	397
95.10	1174	184.00	3241	279.00	626	419.50	232
96.10	2555	185.10	18952	282.10	604	421.00	7162
97.20	1041	186.10	143488	283.00	1892	422.10	6156
98.00	36224	187.10	38672	284.00	1542	423.00	50808
99.00	29896	188.00	4834	285.00	3216	424.00	11992
100.00	2571	189.00	8089	286.00	686	425.00	1164
101.00	18120	190.00	1488	289.10	666	426.10	226
102.20	955	191.00	3963	290.00	403	426.70	236
103.00	6612	192.10	10477	291.00	562	427.20	216
104.00	12493	193.10	11452	292.10	716	427.80	261
105.00	10637	194.10	2572	293.00	3362	428.90	343
106.10	3807	195.10	2192	294.10	1140	429.60	226
107.00	152704	196.00	33808	296.00	57936	430.30	205
108.00	22944	198.00	1058304	297.00	8218	431.00	279

Date : 25-SEP-2010 13:55

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT0925.D  
 Spectrum: HP ChemStation MS DFT0925.D, Scan 358: 10.786 min.  
 Location of Maximum: 198.00  
 Number of points: 352

m/z	Y	m/z	Y	m/z	Y	m/z	Y
109.10	4942	199.00	67096	298.10	495	431.50	361
110.00	314496	200.00	5346	300.40	225	432.00	544
111.00	45320	201.60	6111	301.10	902	432.50	563
112.10	5571	203.00	6174	302.00	1006	433.60	730
113.10	1721	204.10	34176	303.00	7034	434.30	803
114.10	672	205.10	55736	304.10	1731	434.80	845
115.00	574	206.10	241920	305.10	295	436.60	1159
116.10	7855	207.10	32072	307.00	245	437.60	1278
117.00	105664	208.10	7908	308.00	800	438.30	1020
118.00	7759	209.00	2289	309.10	638	439.10	1725
119.00	1080	210.10	4306	310.20	756	441.00	142400
120.00	2024	211.00	9470	311.10	209	442.00	998784
121.00	735	213.00	774	313.00	809	443.00	190464
122.00	8996	214.00	564	314.00	3506	444.00	17872
123.00	15235	215.10	2166	315.10	6006	445.00	1114
124.00	6424	216.10	5157	316.10	3339		
125.00	6258	217.00	58008	317.00	993		
127.00	583936	218.00	7777	319.10	251		
128.00	43888	219.10	868	320.00	293		

TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\092510.B\S092501.D  
 Lab Smp Id: L7EX41AA G0I230000- Client Smp ID: 0266389  
 Inj Date : 25-SEP-2010 14:49  
 Operator : KT Inst ID: sv5.i  
 Smp Info : L7EX41AA G0I230000-389B;0;;;1000;;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;;0;0266389;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\092510.B\8270f.m  
 Meth Date : 27-Sep-2010 12:16 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 1  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

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

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

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152		3.992	3.992	(1.000)	116227	40.0000	(Q)
* 2 Naphthalene-d8	136		5.412	5.412	(1.000)	495326	40.0000	
* 3 Acenaphthene-d10	164		7.516	7.516	(1.000)	264262	40.0000	
* 4 Phenanthrene-d10	188		9.454	9.464	(1.000)	430960	40.0000	
* 5 Chrysene-d12	240		13.847	13.848	(1.000)	426776	40.0000	
* 6 Perylene-d12	264		16.231	16.231	(1.000)	448365	40.0000	
\$ 7 2-Fluorophenol	112		2.769	2.770	(0.694)	254695	59.2568	59.26
\$ 8 Phenol-d5	99		3.650	3.650	(0.914)	358526	65.1217	65.12
\$ 10 1,2-Dichlorobenzene-d4	152		4.200	4.200	(1.052)	94970	32.8713	32.87(q)
\$ 11 Nitrobenzene-d5	82		4.614	4.614	(0.853)	139056	31.4562	31.46
\$ 12 2-Fluorobiphenyl	172		6.718	6.718	(0.894)	316479	37.8405	37.84
\$ 13 2,4,6-Tribromophenol	330		8.521	8.531	(1.134)	111916	108.257	108.2
\$ 14 Terphenyl-d14	244		12.075	12.076	(0.872)	396125	47.9705	47.97
108 Hexachlorobenzene	284		Compound Not Detected.					

QC Flag Legend

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

*[Handwritten signature]*  
 9/27/10

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L7EX41AA G0I230000- Client Smp ID: 0266389  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\sv5\c\chem\sv5.i\092510.B\8270f.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	59.26	59.26	41-105
\$ 8 Phenol-d5	100.0	65.12	65.12	43-122
\$ 10 1,2-Dichlorobenzen	50.00	32.87	65.74	60-120
\$ 11 Nitrobenzene-d5	50.00	31.46	62.91	46-118
\$ 12 2-Fluorobiphenyl	50.00	37.84	75.68	58-105
\$ 13 2,4,6-Tribromophen	100.0	108.2	108.26	61-118
\$ 14 Terphenyl-d14	50.00	47.97	95.94	69-110

TestAmerica West Sacramento

Method 8270C  
 Data file : \\SV5\C\chem\sv5.i\092510.B\S092501.D  
 Lab Smp Id: L7EX41AA G0I230000- Client Smp ID: 0266389  
 Inj Date : 25-SEP-2010 14:49  
 Operator : KT Inst ID: sv5.i  
 Smp Info : L7EX41AA G0I230000-389B;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Meth Date : 25-Sep-2010 17:53 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 1  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SV5

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

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

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.992	3.992	(1.000)	116227	40.0000		(Q)
* 2 Naphthalene-d8	136	5.412	5.412	(1.000)	495326	40.0000		
* 3 Acenaphthene-d10	164	7.516	7.516	(1.000)	264262	40.0000		
* 4 Phenanthrene-d10	188	9.454	9.454	(1.000)	430960	40.0000		
* 5 Chrysene-d12	240	13.847	13.848	(1.000)	426776	40.0000		
* 6 Perylene-d12	264	16.231	16.231	(1.000)	448365	40.0000		
\$ 7 2-Fluorophenol	112	2.769	2.769	(0.694)	254695	59.2568		59.26
\$ 8 Phenol-d5	99	3.650	3.650	(0.914)	358526	65.1217		65.12
\$ 10 1,2-Dichlorobenzene-d4	152	4.200	4.200	(1.052)	94970	32.8713		32.87(q)
\$ 11 Nitrobenzene-d5	82	4.614	4.614	(0.853)	139056	31.4562		31.46
\$ 12 2-Fluorobiphenyl	172	6.718	6.718	(0.894)	316479	37.8405		37.84
\$ 13 2,4,6-Tribromophenol	330	8.521	8.521	(1.134)	111916	108.257		108.2
\$ 14 Terphenyl-d14	244	12.075	12.075	(0.872)	396125	47.9705		47.97
108 Hexachlorobenzene	284				Compound Not Detected.			

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i Calibration Date: 25-SEP-2010  
 Lab File ID: S092501.D Calibration Time: 14:15  
 Lab Smp Id: L7EX41AA G0I230000- Client Smp ID: 0266389  
 Analysis Type: SV Level: LOW  
 Quant Type: ISTD Sample Type: AIR  
 Operator: KT  
 Method File: \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	116227	3.41
2 Naphthalene-d8	494728	247364	989456	495326	0.12
3 Acenaphthene-d10	264752	132376	529504	264262	-0.19
4 Phenanthrene-d10	415811	207906	831622	430960	3.64
5 Chrysene-d12	431516	215758	863032	426776	-1.10
6 Perylene-d12	416460	208230	832920	448365	7.66

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.99	3.49	4.49	3.99	-0.00
2 Naphthalene-d8	5.41	4.91	5.91	5.41	-0.00
3 Acenaphthene-d10	7.52	7.02	8.02	7.52	-0.00
4 Phenanthrene-d10	9.45	8.95	9.95	9.45	-0.00
5 Chrysene-d12	13.85	13.35	14.35	13.85	-0.00
6 Perylene-d12	16.23	15.73	16.73	16.23	-0.00

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

TestAmerica West Sacramento

RECOVERY REPORT

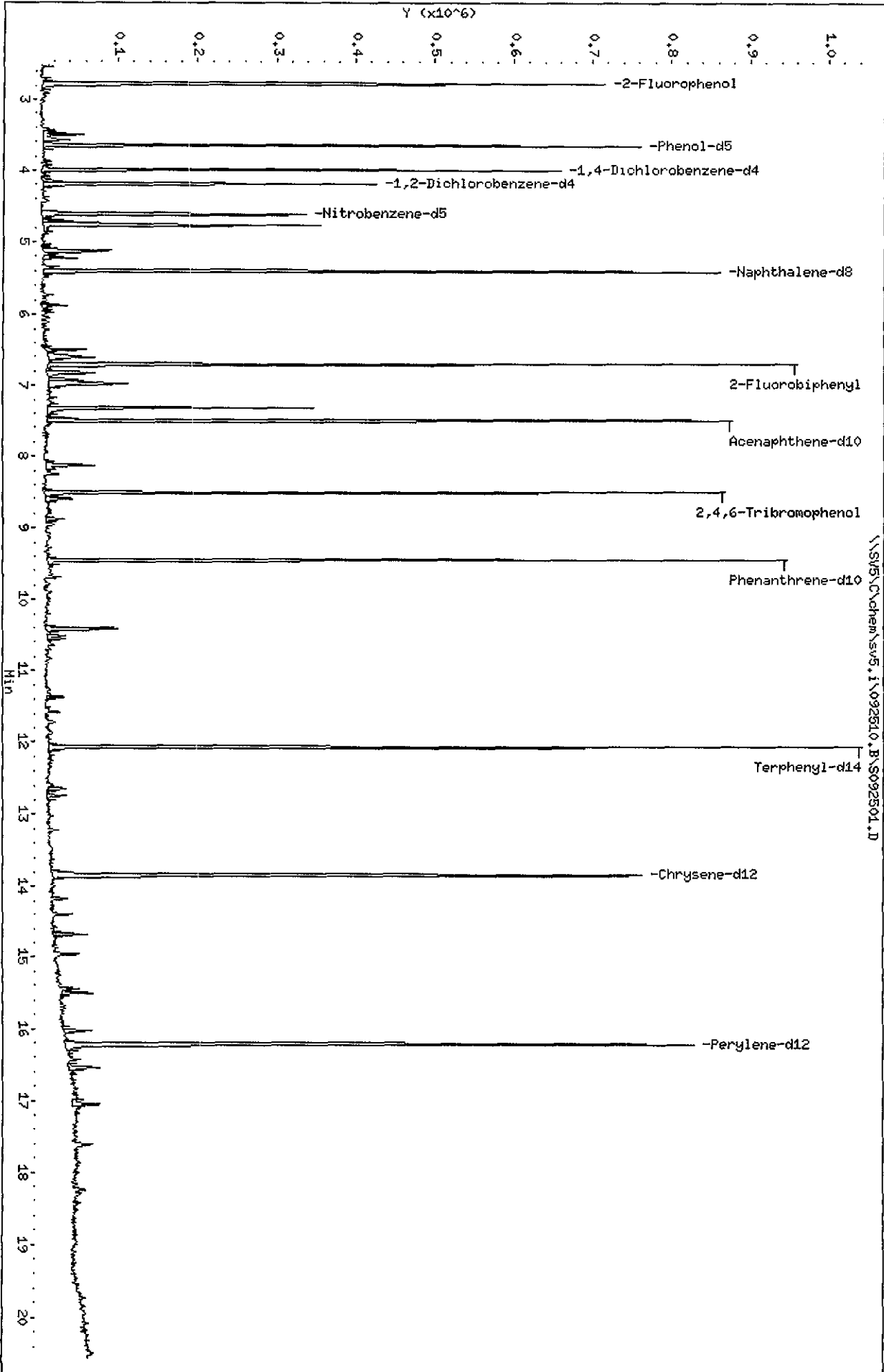
Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L7EX41AA G0I230000- Client Smp ID: 0266389  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	59.26	59.26	41-105
\$ 8 Phenol-d5	100.0	65.12	65.12	43-122
\$ 10 1,2-Dichlorobenzen	50.00	32.87	65.74	60-120
\$ 11 Nitrobenzene-d5	50.00	31.46	62.91	46-118
\$ 12 2-Fluorobiphenyl	50.00	37.84	75.68	58-105
\$ 13 2,4,6-Tribromophen	100.0	108.2	108.26	61-118
\$ 14 Terphenyl-d14	50.00	47.97	95.94	69-110



Data File: \\SV5\C\chem\sv5.1\092510.B\S092501.D  
 Date: 25-SEP-2010 14:49  
 Client ID: 0266389  
 Sample Info: L7EX41A 001230000-3898;0;;11000;11000;5  
 Volume Injected (uL): 1.0  
 Column phase:

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



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\092510.B\S092508.D  
 Lab Smp Id: L7EX41AC G0I230000-  
 Inj Date : 25-SEP-2010 17:51  
 Operator : KT Inst ID: sv5.i  
 Smp Info : L7EX41AC G0I230000-389C;3;LCS;;1000;;1000;2  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\092510.B\8270f.m  
 Meth Date : 27-Sep-2010 12:16 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 8 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

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

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

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.992	3.992	(1.000)	116890	40.0000	(q)
* 2 Naphthalene-d8	136	5.412	5.412	(1.000)	491487	40.0000	
* 3 Acenaphthene-d10	164	7.516	7.516	(1.000)	256924	40.0000	
* 4 Phenanthrene-d10	188	9.454	9.464	(1.000)	425016	40.0000	
* 5 Chrysene-d12	240	13.848	13.848	(1.000)	487513	40.0000	
* 6 Perylene-d12	264	16.231	16.231	(1.000)	528081	40.0000	
\$ 7 2-Fluorophenol	112	2.770	2.770	(0.694)	343654	79.5003	79.50
\$ 8 Phenol-d5	99	3.650	3.650	(0.914)	456404	82.4297	82.43
\$ 10 1,2-Dichlorobenzene-d4	152	Compound Not Detected.					
\$ 11 Nitrobenzene-d5	82	4.614	4.614	(0.853)	185593	42.3114	42.31
\$ 12 2-Fluorobiphenyl	172	6.718	6.718	(0.894)	395973	48.6975	48.70
\$ 13 2,4,6-Tribromophenol	330	8.521	8.531	(1.134)	119974	119.366	119.4 (R)
\$ 14 Terphenyl-d14	244	12.076	12.076	(0.872)	409726	43.4359	43.44
108 Hexachlorobenzene	284	9.029	9.029	(0.955)	217592	98.7187	98.72

QC Flag Legend

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

*Handwritten:* 9/27/10

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L7EX41AC G0I230000-  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: LCS  
 SpikeList File: S11JZHCB.SPK Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\sv5\c\chem\sv5.i\092510.B\8270f.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
108 Hexachlorobenzene	100.0	98.72	98.72	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	79.50	79.50	41-105
\$ 8 Phenol-d5	100.0	82.43	82.43	43-122
\$ 10 1,2-Dichlorobenze	50.00	0.0000	*	60-120
\$ 11 Nitrobenzene-d5	50.00	42.31	84.62	46-118
\$ 12 2-Fluorobiphenyl	50.00	48.70	97.40	58-105
\$ 13 2,4,6-Tribromophen	100.0	119.4	119.37*	61-118
\$ 14 Terphenyl-d14	50.00	43.44	86.87	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\092510.B\S092508.D  
 Lab Smp Id: L7EX41AC G0I230000-  
 Inj Date : 25-SEP-2010 17:51  
 Operator : KT Inst ID: sv5.i  
 Smp Info : L7EX41AC G0I230000-389C;3;LCS;;1000;;1000;2  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Meth Date : 25-Sep-2010 17:53 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 8 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SV5

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

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

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152		3.992	3.992	(1.000)	116890	40.0000	(q)
* 2 Naphthalene-d8	136		5.412	5.412	(1.000)	491487	40.0000	
* 3 Acenaphthene-d10	164		7.516	7.516	(1.000)	256924	40.0000	
* 4 Phenanthrene-d10	188		9.454	9.454	(1.000)	425016	40.0000	
* 5 Chrysene-d12	240		13.848	13.848	(1.000)	487513	40.0000	
* 6 Perylene-d12	264		16.231	16.231	(1.000)	528081	40.0000	
\$ 7 2-Fluorophenol	112		2.770	2.769	(0.694)	343654	79.5003	79.50
\$ 8 Phenol-d5	99		3.650	3.650	(0.914)	456404	82.4297	82.43
\$ 10 1,2-Dichlorobenzene-d4	152		4.210	4.200	(1.055)	143	0.04921	0.04921 (QR)
\$ 11 Nitrobenzene-d5	82		4.614	4.614	(0.853)	185593	42.3114	42.31
\$ 12 2-Fluorobiphenyl	172		6.718	6.718	(0.894)	395973	48.6975	48.70
\$ 13 2,4,6-Tribromophenol	330		8.521	8.521	(1.134)	119974	119.366	119.4 (R)
\$ 14 Terphenyl-d14	244		12.076	12.075	(0.872)	409726	43.4359	43.44
108 Hexachlorobenzene	284		9.029	9.029	(0.955)	217592	98.7187	98.72

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i Calibration Date: 25-SEP-2010  
 Lab File ID: S092508.D Calibration Time: 14:15  
 Lab Smp Id: L7EX41AC G0I230000-  
 Analysis Type: SV Level: LOW  
 Quant Type: ISTD Sample Type: AIR  
 Operator: KT  
 Method File: \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	116890	4.00
2 Naphthalene-d8	494728	247364	989456	491487	-0.66
3 Acenaphthene-d10	264752	132376	529504	256924	-2.96
4 Phenanthrene-d10	415811	207906	831622	425016	2.21
5 Chrysene-d12	431516	215758	863032	487513	12.98
6 Perylene-d12	416460	208230	832920	528081	26.80

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.99	3.49	4.49	3.99	0.00
2 Naphthalene-d8	5.41	4.91	5.91	5.41	0.00
3 Acenaphthene-d10	7.52	7.02	8.02	7.52	0.00
4 Phenanthrene-d10	9.45	8.95	9.95	9.45	0.00
5 Chrysene-d12	13.85	13.35	14.35	13.85	0.00
6 Perylene-d12	16.23	15.73	16.73	16.23	0.00

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

TestAmerica West Sacramento

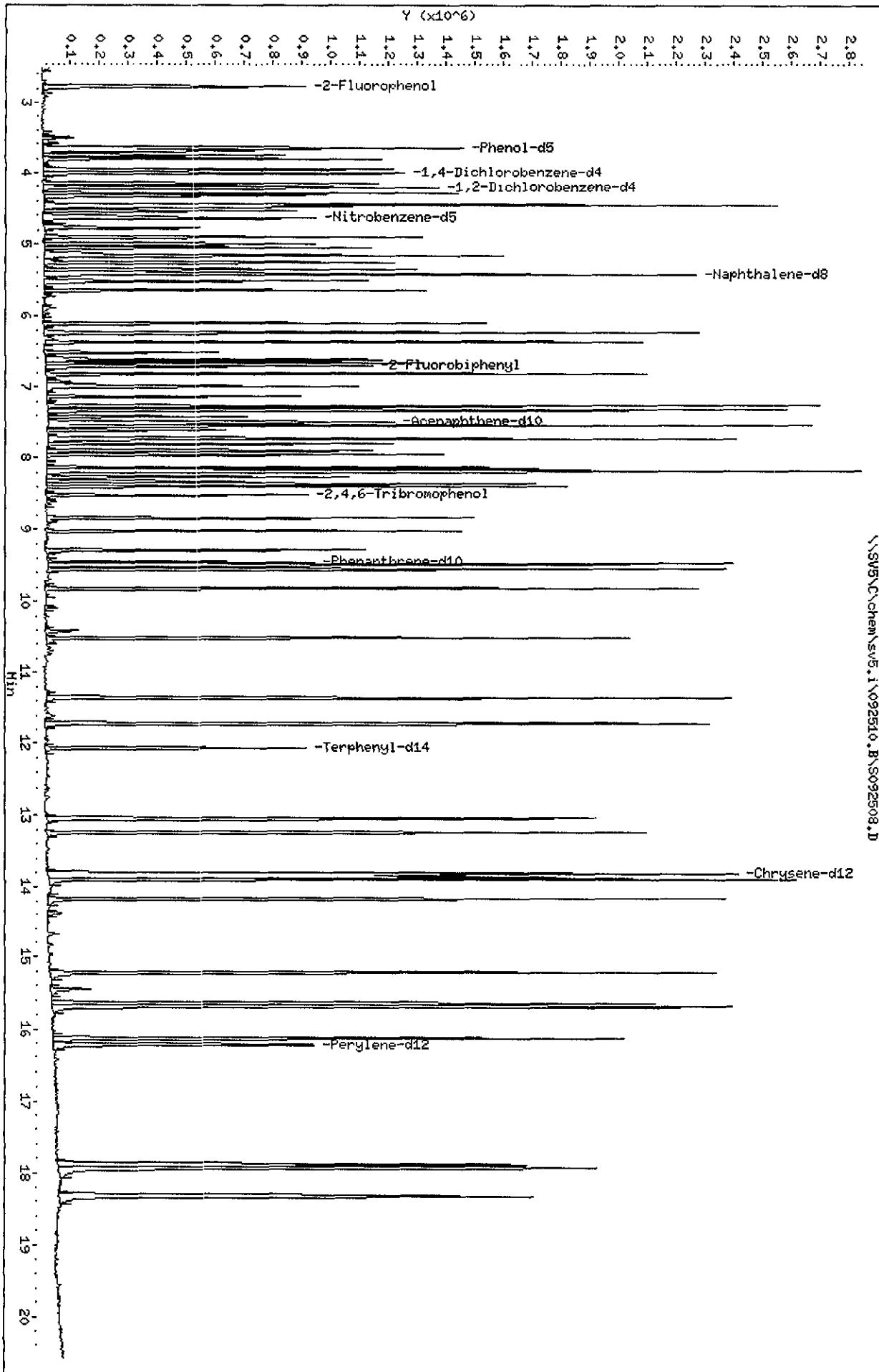
RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L7EX41AC G0I230000-  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: LCS  
 SpikeList File: S11JZHCB.SPK Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
108 Hexachlorobenzene	100.0	98.72	98.72	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	79.50	79.50	41-105
\$ 8 Phenol-d5	100.0	82.43	82.43	43-122
\$ 10 1,2-Dichlorobenzen	50.00	0.04921	0.10*	60-120
\$ 11 Nitrobenzene-d5	50.00	42.31	84.62	46-118
\$ 12 2-Fluorobiphenyl	50.00	48.70	97.40	58-105
\$ 13 2,4,6-Tribromophen	100.0	119.4	119.37*	61-118
\$ 14 Terphenyl-d14	50.00	43.44	86.87	69-110

\\SV5\chem\sv5.1\092510.B\S092508.D



Date : 25-SEP-2010 17:51

Client ID:

Instrument: sv5.1

Sample Info: L7EX41AC G01230000-389C;3;LCS;;1000;;1000;2

Volume Injected (uL): 1.0

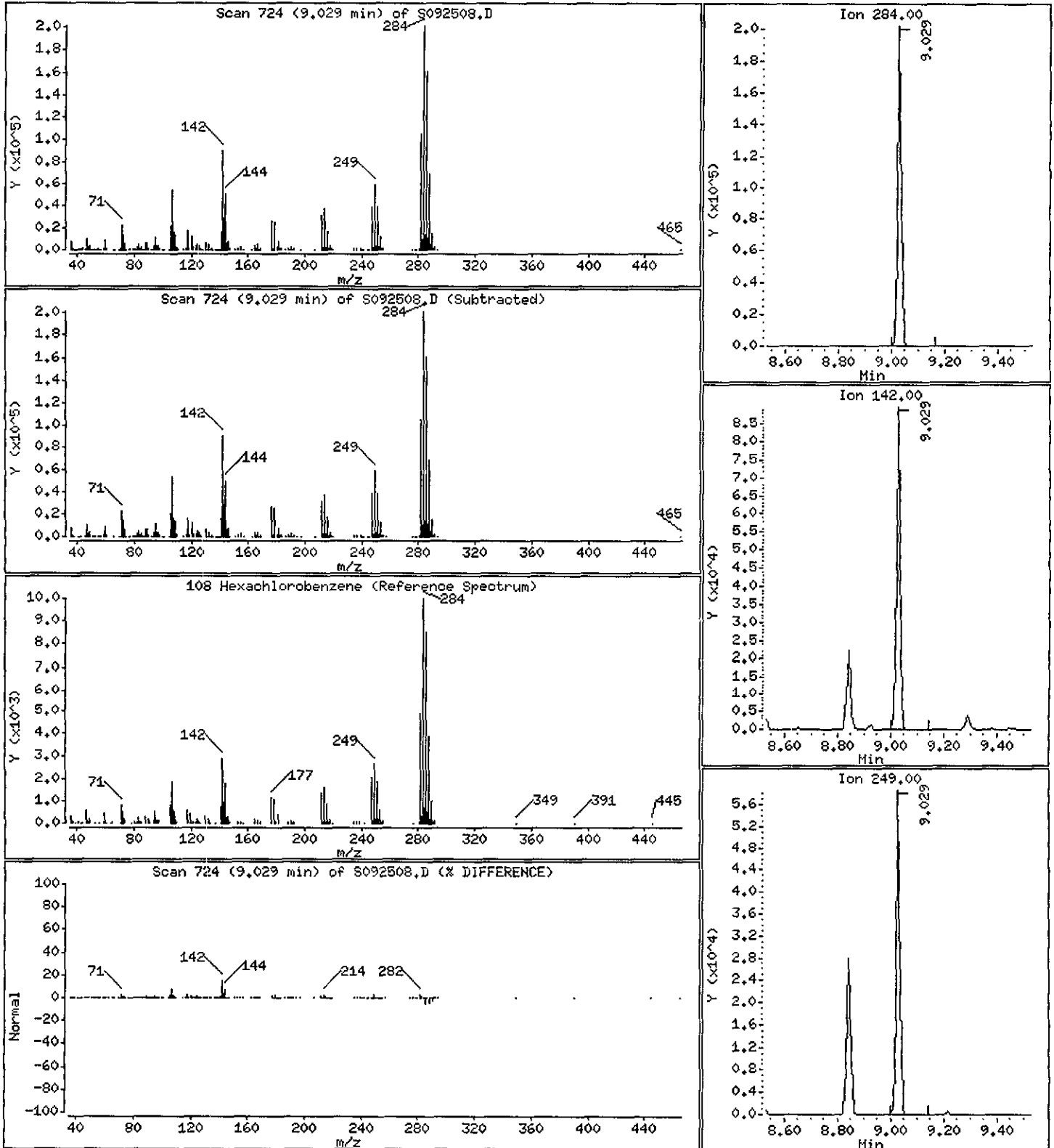
Operator: KT

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 98.72 ug/L





TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\092510.B\S092509.D  
 Lab Smp Id: L7EX41AD G0I230000-  
 Inj Date : 25-SEP-2010 18:17  
 Operator : KT Inst ID: sv5.i  
 Smp Info : L7EX41AD G0I230000-389L;3;LCSD;;1000;;1000;2  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\092510.B\8270f.m  
 Meth Date : 27-Sep-2010 12:16 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 9 QC Sample: LCSD  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

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

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

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN ( NG)	FINAL ( ug/L)	
* 1 1,4-Dichlorobenzene-d4	152		3.992	3.992	(1.000)	112760	40.0000	(q)	
* 2 Naphthalene-d8	136		5.412	5.412	(1.000)	458157	40.0000		
* 3 Acenaphthene-d10	164		7.516	7.516	(1.000)	243036	40.0000		
* 4 Phenanthrene-d10	188		9.454	9.464	(1.000)	399491	40.0000		
* 5 Chrysene-d12	240		13.848	13.848	(1.000)	495366	40.0000		
* 6 Perylene-d12	264		16.231	16.231	(1.000)	545657	40.0000		
\$ 7 2-Fluorophenol	112		2.770	2.770	(0.694)	318822	76.4571	76.46	
\$ 8 Phenol-d5	99		3.650	3.650	(0.914)	432672	81.0057	81.00	
\$ 10 1,2-Dichlorobenzene-d4	152		Compound Not Detected.						
\$ 11 Nitrobenzene-d5	82		4.614	4.614	(0.853)	172857	42.2747	42.27	
\$ 12 2-Fluorobiphenyl	172		6.718	6.718	(0.894)	373758	48.5921	48.59	
\$ 13 2,4,6-Tribromophenol	330		8.521	8.531	(1.134)	110851	116.592	116.6	
\$ 14 Terphenyl-d14	244		12.076	12.076	(0.872)	397634	41.4858	41.48	
108 Hexachlorobenzene	284		9.029	9.029	(0.955)	203910	98.4222	98.42	

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

*Handwritten signature*  
 9/27/10

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L7EX41AD G0I230000-  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: LCSD  
 SpikeList File: S11JZHCB.SPK Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\sv5\c\chem\sv5.i\092510.B\8270f.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
108 Hexachlorobenzene	100.0	98.42	98.42	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	76.46	76.46	41-105
\$ 8 Phenol-d5	100.0	81.00	81.01	43-122
\$ 10 1,2-Dichlorobenze	50.00	0.0000	*	60-120
\$ 11 Nitrobenzene-d5	50.00	42.27	84.55	46-118
\$ 12 2-Fluorobiphenyl	50.00	48.59	97.18	58-105
\$ 13 2,4,6-Tribromophen	100.0	116.6	116.59	61-118
\$ 14 Terphenyl-d14	50.00	41.48	82.97	69-110

TestAmerica West Sacramento

Method 8270C  
 Data file : \\SV5\C\chem\sv5.i\092510.B\S092509.D  
 Lab Smp Id: L7EX41AD G0I230000-  
 Inj Date : 25-SEP-2010 18:17  
 Operator : KT Inst ID: sv5.i  
 Smp Info : L7EX41AD G0I230000-389L;3;LCSD;;1000;;1000;2  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Meth Date : 25-Sep-2010 17:53 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 9 QC Sample: LCSD  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SV5

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

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

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152		3.992	3.992	(1.000)	112760	40.0000	(q)
* 2 Naphthalene-d8	136		5.412	5.412	(1.000)	458157	40.0000	
* 3 Acenaphthene-d10	164		7.516	7.516	(1.000)	243036	40.0000	
* 4 Phenanthrene-d10	188		9.454	9.454	(1.000)	399491	40.0000	
* 5 Chrysene-d12	240		13.848	13.848	(1.000)	495366	40.0000	
* 6 Perylene-d12	264		16.231	16.231	(1.000)	545657	40.0000	
\$ 7 2-Fluorophenol	112		2.770	2.769	(0.694)	318822	76.4571	76.46
\$ 8 Phenol-d5	99		3.650	3.650	(0.914)	432672	81.0057	81.00
\$ 10 1,2-Dichlorobenzene-d4	152		3.992	4.200	(1.000)	112760	40.2288	40.23 (Q)
\$ 11 Nitrobenzene-d5	82		4.614	4.614	(0.853)	172857	42.2747	42.27
\$ 12 2-Fluorobiphenyl	172		6.718	6.718	(0.894)	373758	48.5921	48.59
\$ 13 2,4,6-Tribromophenol	330		8.521	8.521	(1.134)	110851	116.592	116.6
\$ 14 Terphenyl-d14	244		12.076	12.075	(0.872)	397634	41.4858	41.48
108 Hexachlorobenzene	284		9.029	9.029	(0.955)	203910	98.4222	98.42

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i Calibration Date: 25-SEP-2010  
 Lab File ID: S092509.D Calibration Time: 14:15  
 Lab Smp Id: L7EX41AD G0I230000-  
 Analysis Type: SV Level: LOW  
 Quant Type: ISTD Sample Type: AIR  
 Operator: KT  
 Method File: \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	112760	0.32
2 Naphthalene-d8	494728	247364	989456	458157	-7.39
3 Acenaphthene-d10	264752	132376	529504	243036	-8.20
4 Phenanthrene-d10	415811	207906	831622	399491	-3.92
5 Chrysene-d12	431516	215758	863032	495366	14.80
6 Perylene-d12	416460	208230	832920	545657	31.02

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.99	3.49	4.49	3.99	0.00
2 Naphthalene-d8	5.41	4.91	5.91	5.41	0.00
3 Acenaphthene-d10	7.52	7.02	8.02	7.52	0.00
4 Phenanthrene-d10	9.45	8.95	9.95	9.45	0.00
5 Chrysene-d12	13.85	13.35	14.35	13.85	0.00
6 Perylene-d12	16.23	15.73	16.73	16.23	0.00

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

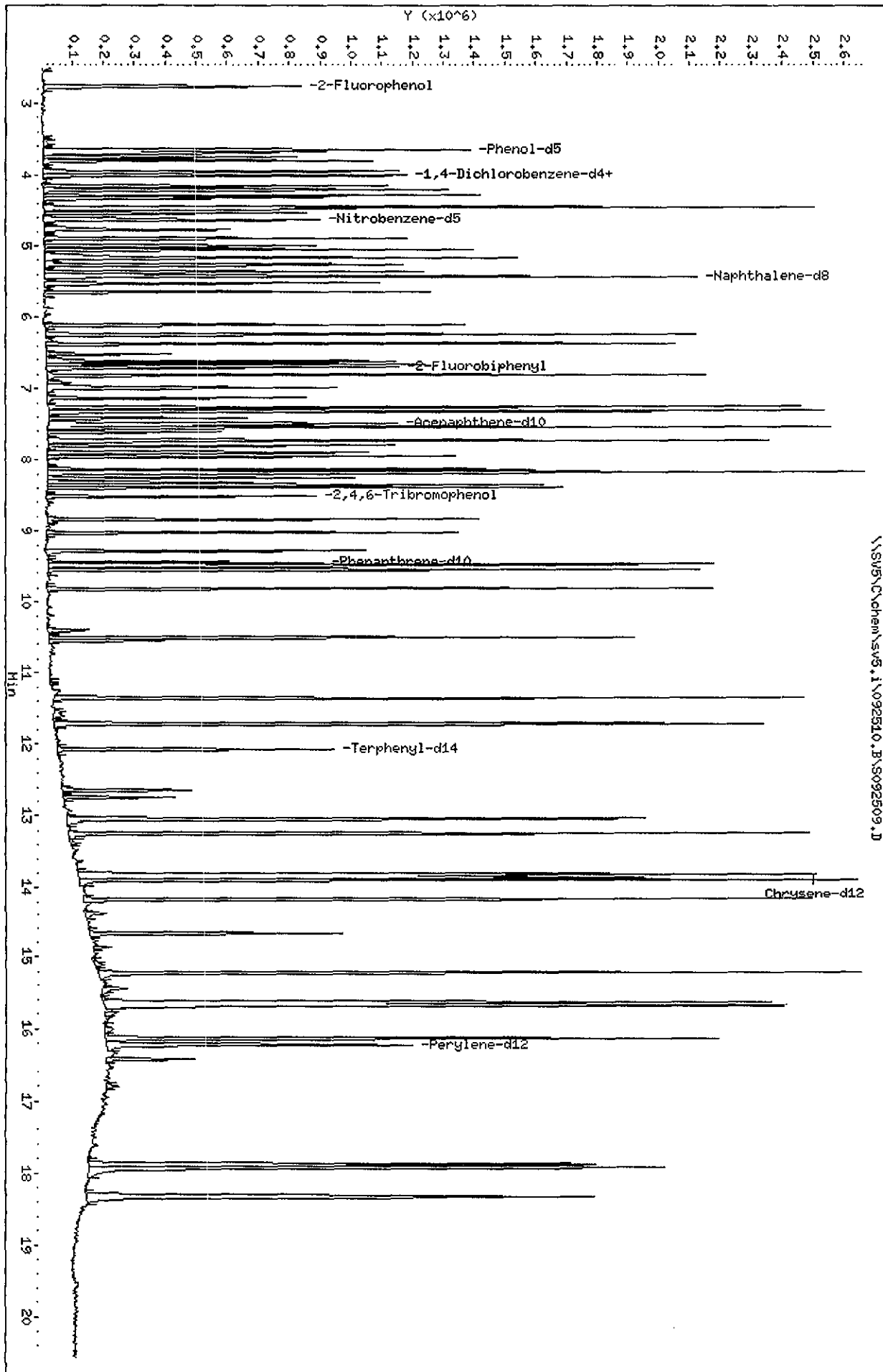
TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L7EX41AD G0I230000-  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: LCSD  
 SpikeList File: S11JZHCB.SPK Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
108 Hexachlorobenzene	100.0	98.42	98.42	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	76.46	76.46	41-105
\$ 8 Phenol-d5	100.0	81.00	81.01	43-122
\$ 10 1,2-Dichlorobenzen	50.00	40.23	80.46	60-120
\$ 11 Nitrobenzene-d5	50.00	42.27	84.55	46-118
\$ 12 2-Fluorobiphenyl	50.00	48.59	97.18	58-105
\$ 13 2,4,6-Tribromophen	100.0	116.6	116.59	61-118
\$ 14 Terphenyl-d14	50.00	41.48	82.97	69-110



Date : 25-SEP-2010 18:17

Client ID:

Instrument: sv5.i

Sample Info: L7EX41AD G01230000-389L;3;LCSD;;1000;;1000;2

Volume Injected (uL): 1.0

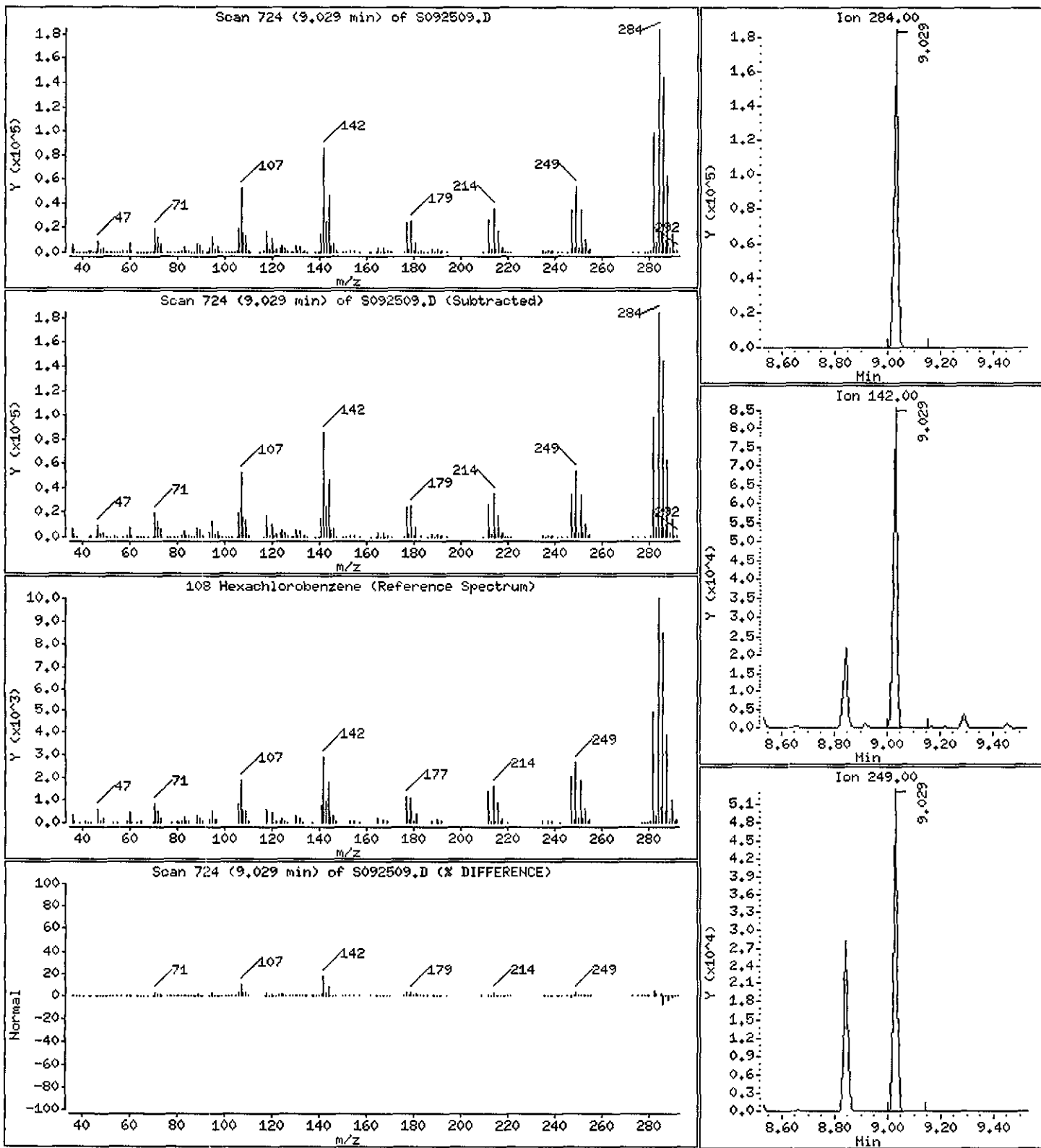
Operator: KT

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 98.42 ug/L



TestAmerica West Sacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\092510.B\S092510.D  
 Lab Smp Id: L7DQK1AA G0I230491- Client Smp ID: 0266389  
 Inj Date : 25-SEP-2010 18:43  
 Operator : KT Inst ID: sv5.i  
 Smp Info : L7DQK1AA G0I230491-2;0;;;1000;;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;;0;0266389;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\092510.B\8270f.m  
 Meth Date : 27-Sep-2010 12:16 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 10  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

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

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

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152		3.992	3.992	(1.000)	101971	40.0000	(Q)
* 2 Naphthalene-d8	136		5.412	5.412	(1.000)	433527	40.0000	
* 3 Acenaphthene-d10	164		7.506	7.516	(1.000)	229653	40.0000	
* 4 Phenanthrene-d10	188		9.454	9.464	(1.000)	378691	40.0000	
* 5 Chrysene-d12	240		13.837	13.848	(1.000)	413507	40.0000	
* 6 Perylene-d12	264		16.221	16.231	(1.000)	436635	40.0000	
\$ 7 2-Fluorophenol	112		2.770	2.770	(0.694)	234743	62.2502	62.25
\$ 8 Phenol-d5	99		3.650	3.650	(0.914)	347904	72.0269	72.03
\$ 10 1,2-Dichlorobenzene-d4	152		4.200	4.200	(1.052)	54323	21.4311	21.43 (qR)
\$ 11 Nitrobenzene-d5	82		4.614	4.614	(0.853)	128274	33.1536	33.15
\$ 12 2-Fluorobiphenyl	172		6.718	6.718	(0.895)	294788	40.5587	40.56
\$ 13 2,4,6-Tribromophenol	330		8.521	8.531	(1.135)	103364	115.053	115.0
\$ 14 Terphenyl-d14	244		12.065	12.076	(0.872)	352580	44.0673	44.07
108 Hexachlorobenzene	284		Compound Not Detected.					

QC Flag Legend

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

*Handwritten:* 9/27/10



TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L7DQK1AA G0I230491- Client Smp ID: 0266389  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\sv5\c\chem\sv5.i\092510.B\8270f.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	62.25	62.25	41-105
\$ 8 Phenol-d5	100.0	72.03	72.03	43-122
\$ 10 1,2-Dichlorobenzen	50.00	21.43	42.86*	60-120
\$ 11 Nitrobenzene-d5	50.00	33.15	66.31	46-118
\$ 12 2-Fluorobiphenyl	50.00	40.56	81.12	58-105
\$ 13 2,4,6-Tribromophen	100.0	115.0	115.05	61-118
\$ 14 Terphenyl-d14	50.00	44.07	88.13	69-110

TestAmerica West Sacramento

Method 8270C  
 Data file : \\SV5\C\chem\sv5.i\092510.B\S092510.D  
 Lab Smp Id: L7DQK1AA G0I230491- Client Smp ID: 0266389  
 Inj Date : 25-SEP-2010 18:43  
 Operator : KT Inst ID: sv5.i  
 Smp Info : L7DQK1AA G0I230491-2;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;;0;0266389;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Meth Date : 25-Sep-2010 17:53 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 10  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SV5

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

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

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152		3.992	3.992	(1.000)	101971	40.0000	(Q)
* 2 Naphthalene-d8	136		5.412	5.412	(1.000)	433527	40.0000	
* 3 Acenaphthene-d10	164		7.506	7.516	(1.000)	229653	40.0000	
* 4 Phenanthrene-d10	188		9.454	9.454	(1.000)	378691	40.0000	
* 5 Chrysene-d12	240		13.837	13.848	(1.000)	413507	40.0000	
* 6 Perylene-d12	264		16.221	16.231	(1.000)	436635	40.0000	
\$ 7 2-Fluorophenol	112		2.770	2.769	(0.694)	234743	62.2502	62.25
\$ 8 Phenol-d5	99		3.650	3.650	(0.914)	347904	72.0269	72.03
\$ 10 1,2-Dichlorobenzene-d4	152		4.200	4.200	(1.052)	54323	21.4311	21.43 (qR)
\$ 11 Nitrobenzene-d5	82		4.614	4.614	(0.853)	128274	33.1536	33.15
\$ 12 2-Fluorobiphenyl	172		6.718	6.718	(0.895)	294788	40.5587	40.56
\$ 13 2,4,6-Tribromophenol	330		8.521	8.521	(1.135)	103364	115.053	115.0
\$ 14 Terphenyl-d14	244		12.065	12.075	(0.872)	352580	44.0673	44.07
108 Hexachlorobenzene	284							Compound Not Detected.

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i Calibration Date: 25-SEP-2010  
 Lab File ID: S092510.D Calibration Time: 14:15  
 Lab Smp Id: L7DQK1AA G0I230491- Client Smp ID: 0266389  
 Analysis Type: SV Level: LOW  
 Quant Type: ISTD Sample Type: AIR  
 Operator: KT  
 Method File: \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	101971	-9.28
2 Naphthalene-d8	494728	247364	989456	433527	-12.37
3 Acenaphthene-d10	264752	132376	529504	229653	-13.26
4 Phenanthrene-d10	415811	207906	831622	378691	-8.93
5 Chrysene-d12	431516	215758	863032	413507	-4.17
6 Perylene-d12	416460	208230	832920	436635	4.84

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.99	3.49	4.49	3.99	0.00
2 Naphthalene-d8	5.41	4.91	5.91	5.41	0.00
3 Acenaphthene-d10	7.52	7.02	8.02	7.51	-0.14
4 Phenanthrene-d10	9.45	8.95	9.95	9.45	0.00
5 Chrysene-d12	13.85	13.35	14.35	13.84	-0.07
6 Perylene-d12	16.23	15.73	16.73	16.22	-0.06

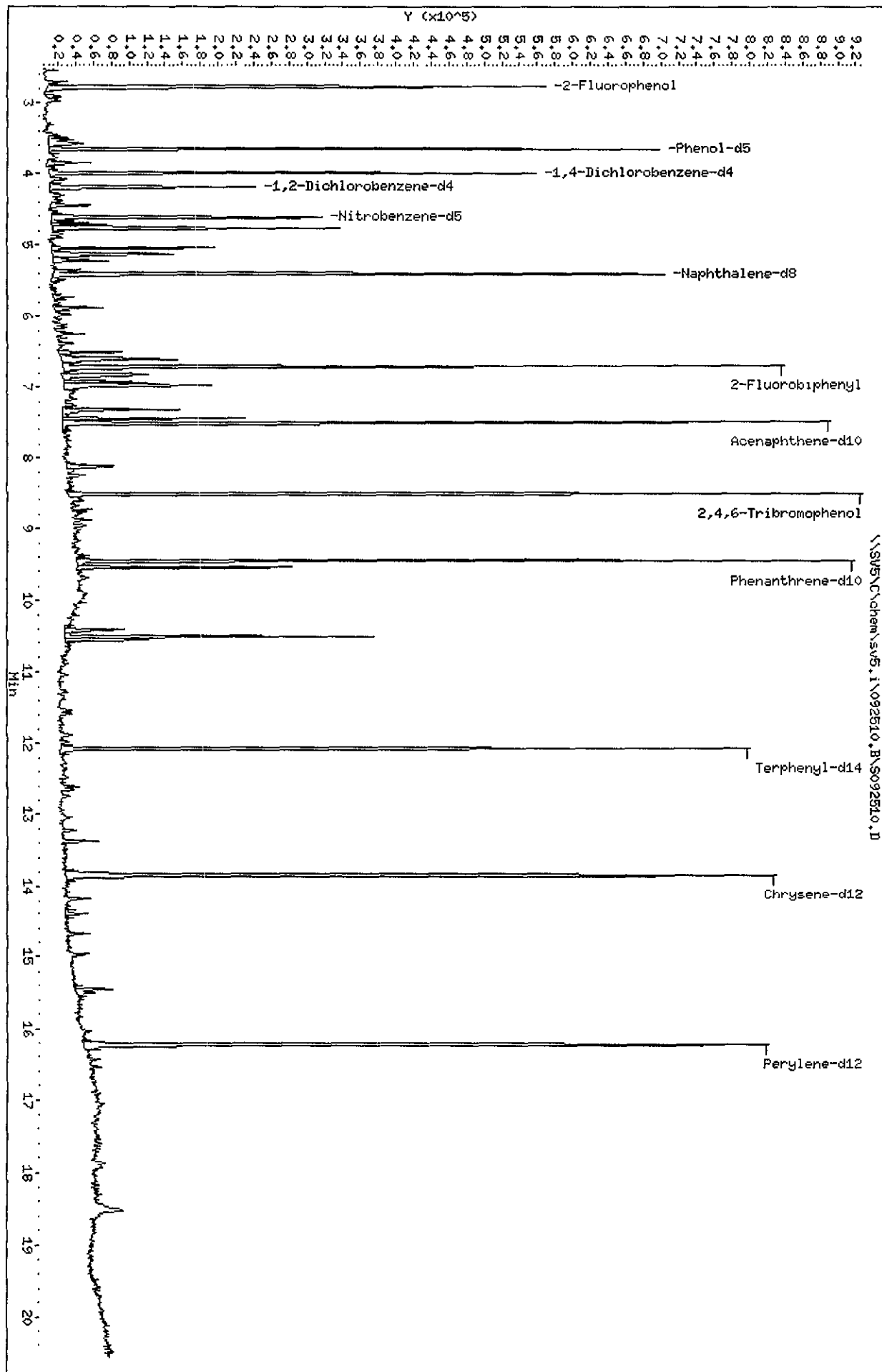
AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L7DQK1AA G0I230491- Client Smp ID: 0266389  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	62.25	62.25	41-105
\$ 8 Phenol-d5	100.0	72.03	72.03	43-122
\$ 10 1,2-Dichlorobenzen	50.00	21.43	42.86*	60-120
\$ 11 Nitrobenzene-d5	50.00	33.15	66.31	46-118
\$ 12 2-Fluorobiphenyl	50.00	40.56	81.12	58-105
\$ 13 2,4,6-Tribromophen	100.0	115.0	115.05	61-118
\$ 14 Terphenyl-d14	50.00	44.07	88.13	69-110



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\092510.B\S092511.D  
 Lab Smp Id: L7DQN1AA G0I230491- Client Smp ID: 0266389  
 Inj Date : 25-SEP-2010 19:09  
 Operator : KT Inst ID: sv5.i  
 Smp Info : L7DQN1AA G0I230491-4;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\092510.B\8270f.m  
 Meth Date : 27-Sep-2010 12:16 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 11  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

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

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

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152		3.992	3.992	(1.000)	122656	40.0000	(Q)
* 2 Naphthalene-d8	136		5.412	5.412	(1.000)	536613	40.0000	
* 3 Acenaphthene-d10	164		7.505	7.516	(1.000)	290956	40.0000	
* 4 Phenanthrene-d10	188		9.454	9.464	(1.000)	474554	40.0000	
* 5 Chrysene-d12	240		13.837	13.848	(1.000)	479845	40.0000	
* 6 Perylene-d12	264		16.231	16.231	(1.000)	501946	40.0000	
\$ 7 2-Fluorophenol	112		2.769	2.770	(0.694)	283414	62.4823	62.48
\$ 8 Phenol-d5	99		3.650	3.650	(0.914)	434644	74.8095	74.81
\$ 10 1,2-Dichlorobenzene-d4	152		4.200	4.200	(1.052)	71005	23.2883	23.29 (qR)
\$ 11 Nitrobenzene-d5	82		4.614	4.614	(0.853)	159386	33.2810	33.28
\$ 12 2-Fluorobiphenyl	172		6.718	6.718	(0.895)	364566	39.5909	39.59
\$ 13 2,4,6-Tribromophenol	330		8.521	8.531	(1.135)	132545	116.449	116.4
\$ 14 Terphenyl-d14	244		12.075	12.076	(0.873)	422353	45.4900	45.49
108 Hexachlorobenzene	284		9.029	9.029	(0.955)	17575	7.14120	7.141

QC Flag Legend

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

*Handwritten:* 9/27/10

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L7DQN1AA G0I230491- Client Smp ID: 0266389  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\sv5\c\chem\sv5.i\092510.B\8270f.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	62.48	62.48	41-105
\$ 8 Phenol-d5	100.0	74.81	74.81	43-122
\$ 10 1,2-Dichlorobenzen	50.00	23.29	46.58*	60-120
\$ 11 Nitrobenzene-d5	50.00	33.28	66.56	46-118
\$ 12 2-Fluorobiphenyl	50.00	39.59	79.18	58-105
\$ 13 2,4,6-Tribromophen	100.0	116.4	116.45	61-118
\$ 14 Terphenyl-d14	50.00	45.49	90.98	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\092510.B\S092511.D  
 Lab Smp Id: L7DQN1AA G0I230491- Client Smp ID: 0266389  
 Inj Date : 25-SEP-2010 19:09  
 Operator : KT Inst ID: sv5.i  
 Smp Info : L7DQN1AA G0I230491-4;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;;0;0266389;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Meth Date : 25-Sep-2010 17:53 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 11  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SV5

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

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

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152		3.992	3.992	(1.000)	122656	40.0000	(Q)
* 2 Naphthalene-d8	136		5.412	5.412	(1.000)	536613	40.0000	
* 3 Acenaphthene-d10	164		7.505	7.516	(1.000)	290956	40.0000	
* 4 Phenanthrene-d10	188		9.454	9.454	(1.000)	474554	40.0000	
* 5 Chrysene-d12	240		13.837	13.848	(1.000)	479845	40.0000	
* 6 Perylene-d12	264		16.231	16.231	(1.000)	501946	40.0000	
\$ 7 2-Fluorophenol	112		2.769	2.769	(0.694)	283414	62.4823	62.48
\$ 8 Phenol-d5	99		3.650	3.650	(0.914)	434644	74.8095	74.81
\$ 10 1,2-Dichlorobenzene-d4	152		4.200	4.200	(1.052)	71005	23.2883	23.29(qR)
\$ 11 Nitrobenzene-d5	82		4.614	4.614	(0.853)	159386	33.2810	33.28
\$ 12 2-Fluorobiphenyl	172		6.718	6.718	(0.895)	364566	39.5909	39.59
\$ 13 2,4,6-Tribromophenol	330		8.521	8.521	(1.135)	132545	116.449	116.4
\$ 14 Terphenyl-d14	244		12.075	12.075	(0.873)	422353	45.4900	45.49
108 Hexachlorobenzene	284		9.029	9.029	(0.955)	17575	7.14120	7.141

QC Flag Legend

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



TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S092511.D  
 Lab Smp Id: L7DQN1AA G0I230491-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

Calibration Date: 25-SEP-2010  
 Calibration Time: 14:15  
 Client Smp ID: 0266389  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	122656	9.13
2 Naphthalene-d8	494728	247364	989456	536613	8.47
3 Acenaphthene-d10	264752	132376	529504	290956	9.90
4 Phenanthrene-d10	415811	207906	831622	474554	14.13
5 Chrysene-d12	431516	215758	863032	479845	11.20
6 Perylene-d12	416460	208230	832920	501946	20.53

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.99	3.49	4.49	3.99	-0.00
2 Naphthalene-d8	5.41	4.91	5.91	5.41	-0.00
3 Acenaphthene-d10	7.52	7.02	8.02	7.51	-0.14
4 Phenanthrene-d10	9.45	8.95	9.95	9.45	-0.00
5 Chrysene-d12	13.85	13.35	14.35	13.84	-0.08
6 Perylene-d12	16.23	15.73	16.73	16.23	-0.00

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

TestAmerica West Sacramento

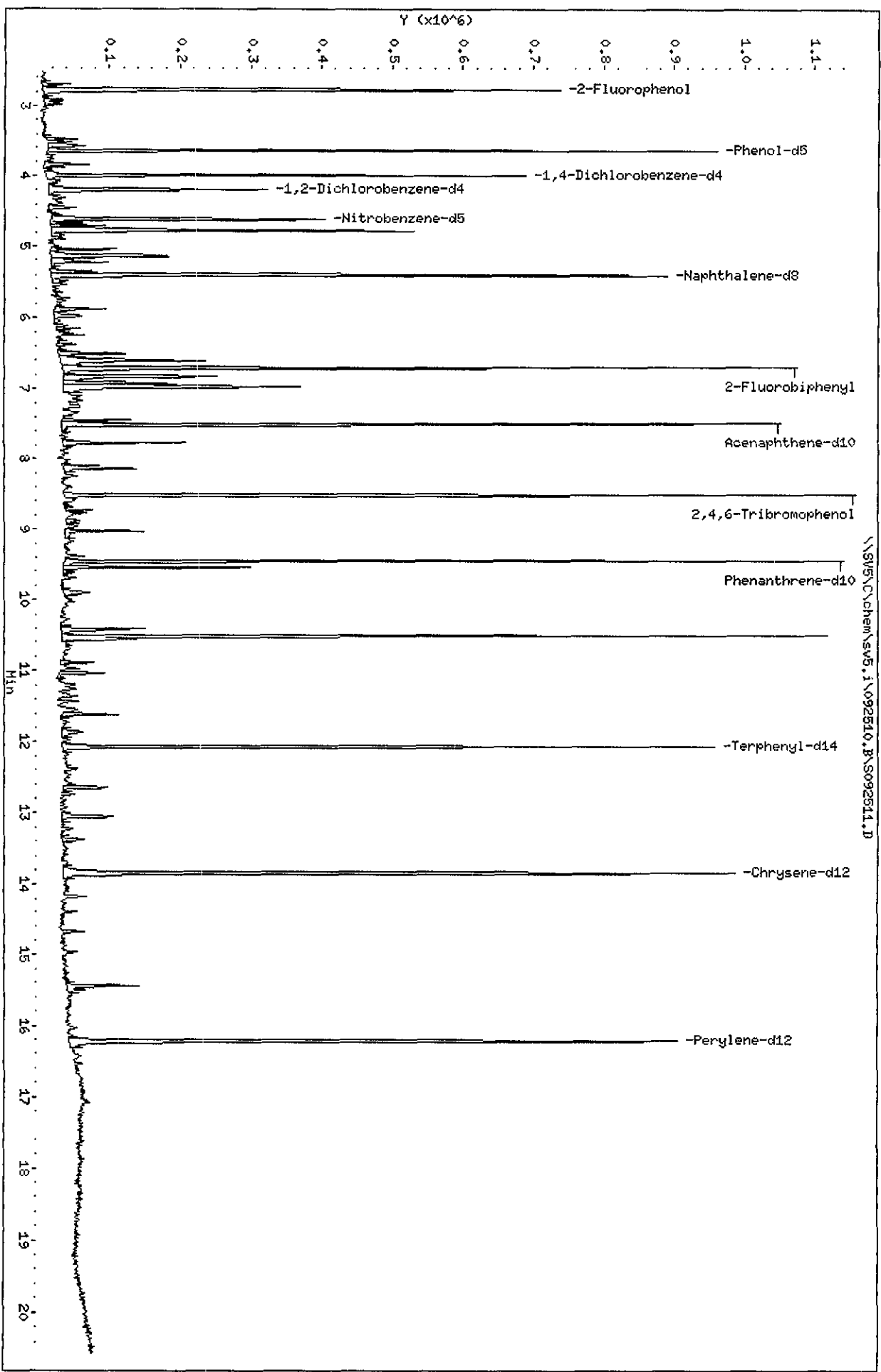
RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L7DQN1AA G0I230491- Client Smp ID: 0266389  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	62.48	62.48	41-105
\$ 8 Phenol-d5	100.0	74.81	74.81	43-122
\$ 10 1,2-Dichlorobenzen	50.00	23.29	46.58*	60-120
\$ 11 Nitrobenzene-d5	50.00	33.28	66.56	46-118
\$ 12 2-Fluorobiphenyl	50.00	39.59	79.18	58-105
\$ 13 2,4,6-Tribromophen	100.0	116.4	116.45	61-118
\$ 14 Terphenyl-d14	50.00	45.49	90.98	69-110

Data File: \\SV5\chem\sv5.i\092510.B\S092511.D  
 Date : 25-SEP-2010 19:09  
 Client ID: 0266389  
 Sample Info: L7M04AA G01230491-4:0:1000:1000:5  
 Volume Injected (uL): 1.0  
 Column phase:

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



Date : 25-SEP-2010 19:09

Client ID: 0266389

Instrument: sv5.i

Sample Info: L7DQN1AA G01230491-4;0;;;1000;;1000;5

Volume Injected (uL): 1.0

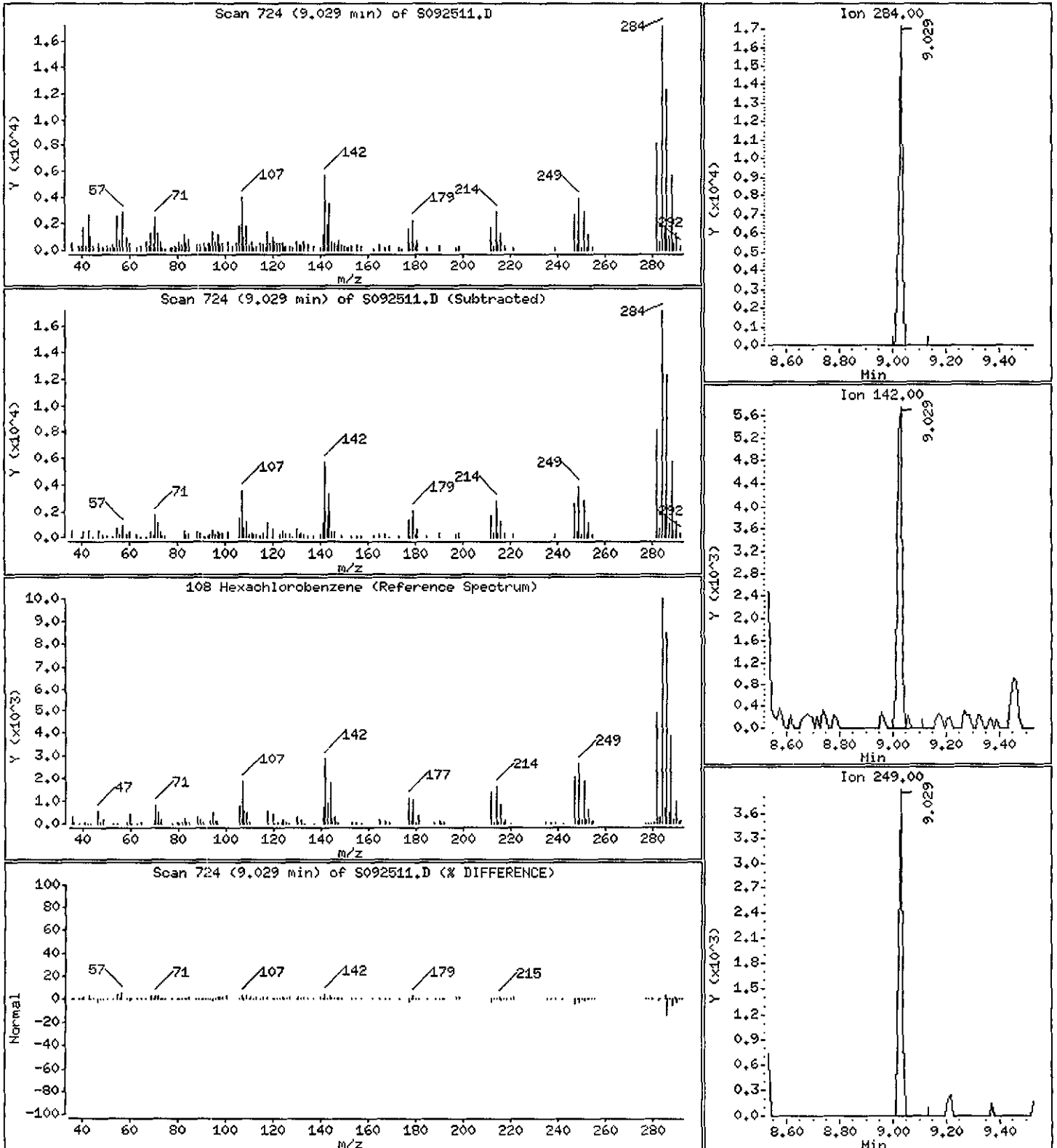
Operator: KT

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 7,141 ug/L



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\092510.B\S092512.D  
 Lab Smp Id: L7DQQ1AA G0I230491- Client Smp ID: 0266389  
 Inj Date : 25-SEP-2010 19:35  
 Operator : KT Inst ID: sv5.i  
 Smp Info : L7DQQ1AA G0I230491-6;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;;0;0266389;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\092510.B\8270f.m  
 Meth Date : 27-Sep-2010 12:16 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 12  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

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

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

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152		3.992	3.992	(1.000)	115282	40.0000	(Q)
* 2 Naphthalene-d8	136		5.412	5.412	(1.000)	469362	40.0000	
* 3 Acenaphthene-d10	164		7.505	7.516	(1.000)	249125	40.0000	
* 4 Phenanthrene-d10	188		9.454	9.464	(1.000)	395781	40.0000	
* 5 Chrysene-d12	240		13.837	13.848	(1.000)	452296	40.0000	
* 6 Perylene-d12	264		16.221	16.231	(1.000)	483931	40.0000	
\$ 7 2-Fluorophenol	112		2.770	2.770	(0.694)	256094	60.0707	60.07
\$ 8 Phenol-d5	99		3.650	3.650	(0.914)	395459	72.4189	72.42
\$ 10 1,2-Dichlorobenzene-d4	152		4.189	4.200	(1.049)	74225	25.9015	25.90 (qR)
\$ 11 Nitrobenzene-d5	82		4.614	4.614	(0.853)	140639	33.5742	33.57
\$ 12 2-Fluorobiphenyl	172		6.718	6.718	(0.895)	328438	41.6564	41.66
\$ 13 2,4,6-Tribromophenol	330		8.521	8.531	(1.135)	109843	112.708	112.7
\$ 14 Terphenyl-d14	244		12.076	12.076	(0.873)	382460	43.7024	43.70
108 Hexachlorobenzene	284		9.029	9.029	(0.955)	1333	0.64944	0.6494 (aQ)

QC Flag Legend

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

*Handwritten signature and date: 9/27/10*

QC Flag Legend

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

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L7DQQ1AA G0I230491- Client Smp ID: 0266389  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\sv5\c\chem\sv5.i\092510.B\8270f.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	60.07	60.07	41-105
\$ 8 Phenol-d5	100.0	72.42	72.42	43-122
\$ 10 1,2-Dichlorobenzen	50.00	25.90	51.80*	60-120
\$ 11 Nitrobenzene-d5	50.00	33.57	67.15	46-118
\$ 12 2-Fluorobiphenyl	50.00	41.66	83.31	58-105
\$ 13 2,4,6-Tribromophen	100.0	112.7	112.71	61-118
\$ 14 Terphenyl-d14	50.00	43.70	87.40	69-110

TestAmerica West Sacramento

Method 8270C  
 Data file : \\SV5\C\chem\sv5.i\092510.B\S092512.D  
 Lab Smp Id: L7DQQ1AA G0I230491- Client Smp ID: 0266389  
 Inj Date : 25-SEP-2010 19:35  
 Operator : KT Inst ID: sv5.i  
 Smp Info : L7DQQ1AA G0I230491-6;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Meth Date : 25-Sep-2010 17:53 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 12  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SV5

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

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

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152			3.992	3.992	(1.000)	115282	40.0000	(Q)
* 2 Naphthalene-d8	136			5.412	5.412	(1.000)	469362	40.0000	
* 3 Acenaphthene-d10	164			7.505	7.516	(1.000)	249125	40.0000	
* 4 Phenanthrene-d10	188			9.454	9.454	(1.000)	395781	40.0000	
* 5 Chrysene-d12	240			13.837	13.848	(1.000)	452296	40.0000	
* 6 Perylene-d12	264			16.221	16.231	(1.000)	483931	40.0000	
\$ 7 2-Fluorophenol	112			2.770	2.769	(0.694)	256094	60.0707	60.07
\$ 8 Phenol-d5	99			3.650	3.650	(0.914)	395459	72.4189	72.42
\$ 10 1,2-Dichlorobenzene-d4	152			4.189	4.200	(1.049)	74225	25.9015	25.90 (qR)
\$ 11 Nitrobenzene-d5	82			4.614	4.614	(0.853)	140639	33.5742	33.57
\$ 12 2-Fluorobiphenyl	172			6.718	6.718	(0.895)	328438	41.6564	41.66
\$ 13 2,4,6-Tribromophenol	330			8.521	8.521	(1.135)	109843	112.708	112.7
\$ 14 Terphenyl-d14	244			12.076	12.075	(0.873)	382460	43.7024	43.70
108 Hexachlorobenzene	284			9.029	9.029	(0.955)	1333	0.64944	0.6494 (aQ)

QC Flag Legend

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



QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S092512.D  
 Lab Smp Id: L7DQQ1AA G0I230491-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

Calibration Date: 25-SEP-2010  
 Calibration Time: 14:15  
 Client Smp ID: 0266389  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	115282	2.56
2 Naphthalene-d8	494728	247364	989456	469362	-5.13
3 Acenaphthene-d10	264752	132376	529504	249125	-5.90
4 Phenanthrene-d10	415811	207906	831622	395781	-4.82
5 Chrysene-d12	431516	215758	863032	452296	4.82
6 Perylene-d12	416460	208230	832920	483931	16.20

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.99	3.49	4.49	3.99	0.00
2 Naphthalene-d8	5.41	4.91	5.91	5.41	0.00
3 Acenaphthene-d10	7.52	7.02	8.02	7.51	-0.14
4 Phenanthrene-d10	9.45	8.95	9.95	9.45	0.00
5 Chrysene-d12	13.85	13.35	14.35	13.84	-0.07
6 Perylene-d12	16.23	15.73	16.73	16.22	-0.06

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

TestAmerica West Sacramento

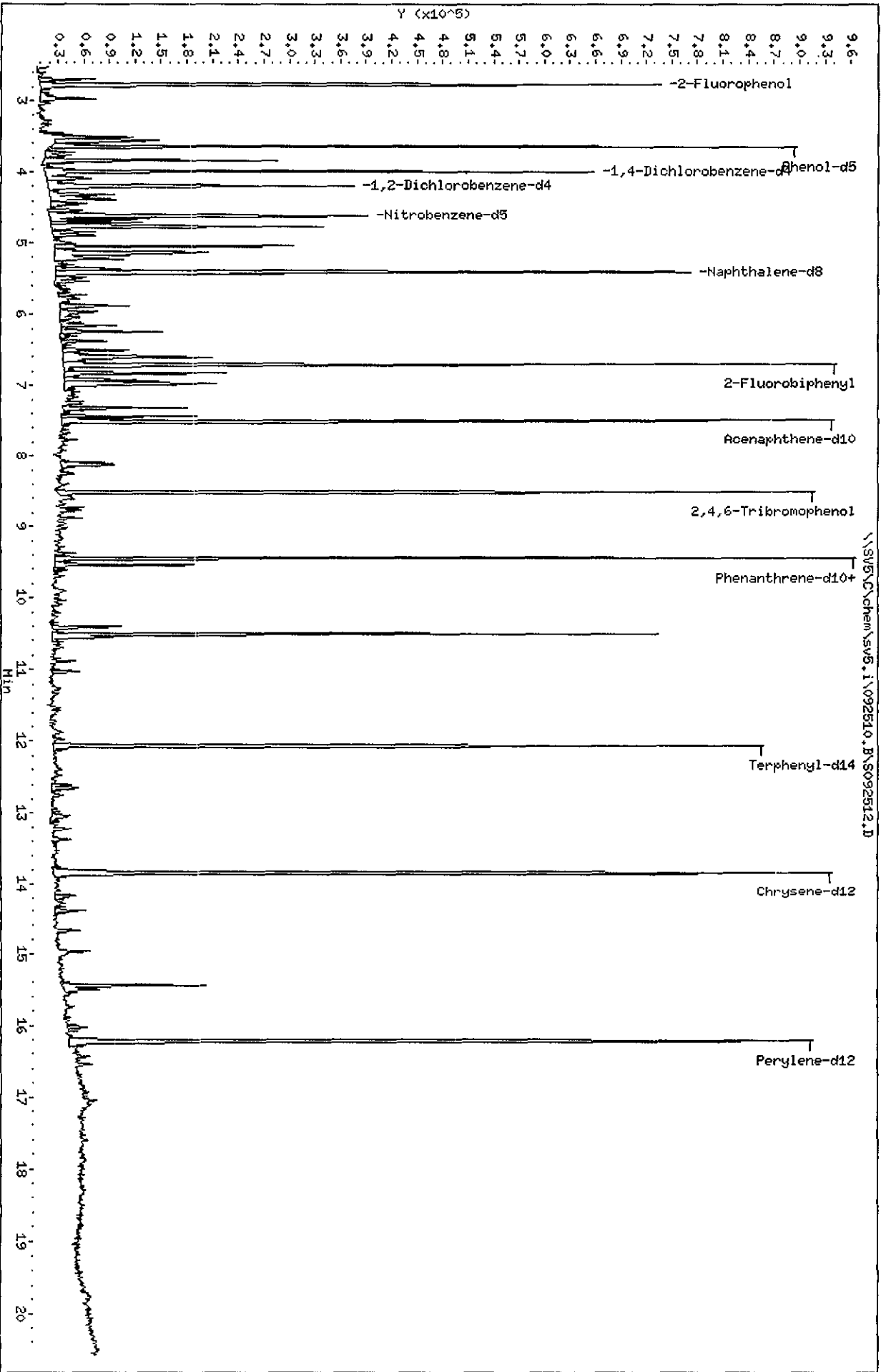
RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L7DQQ1AA G0I230491- Client Smp ID: 0266389  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	60.07	60.07	41-105
\$ 8 Phenol-d5	100.0	72.42	72.42	43-122
\$ 10 1,2-Dichlorobenzen	50.00	25.90	51.80*	60-120
\$ 11 Nitrobenzene-d5	50.00	33.57	67.15	46-118
\$ 12 2-Fluorobiphenyl	50.00	41.66	83.31	58-105
\$ 13 2,4,6-Tribromophen	100.0	112.7	112.71	61-118
\$ 14 Terphenyl-d14	50.00	43.70	87.40	69-110

Data File: \\SVS\Chem\sw5.1\092510.B\S092512.D  
 Date: 25-SEP-2010 19:35  
 Client ID: 0266389  
 Sample Info: L7DQ01A9 G01230491-610110001100005  
 Volume Injected (uL): 1.0  
 Column phase:

Instrument: sw5.i  
 Operator: KT  
 Column diameter: 2.00



Date : 25-SEP-2010 19:35

Client ID: 0266389

Instrument: sv5.i

Sample Info: L7DQQA G01230491-6;0;;;1000;;1000;5

Volume Injected (uL): 1.0

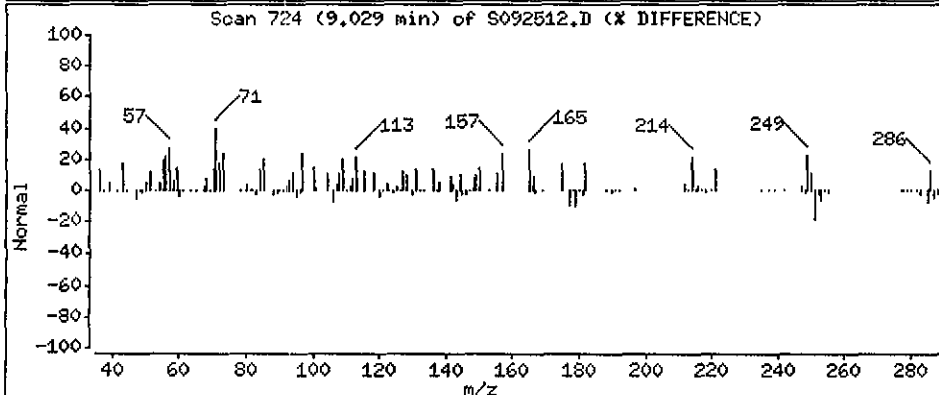
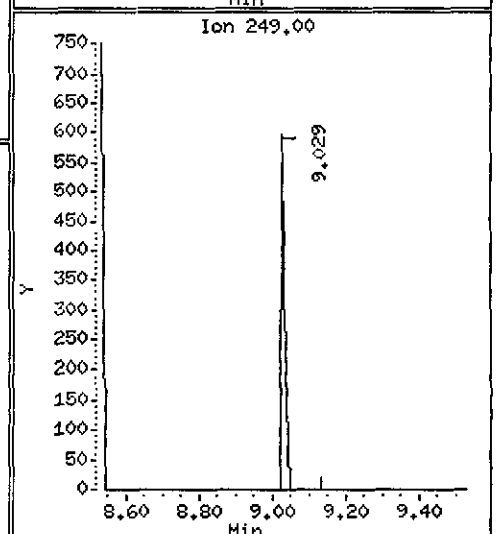
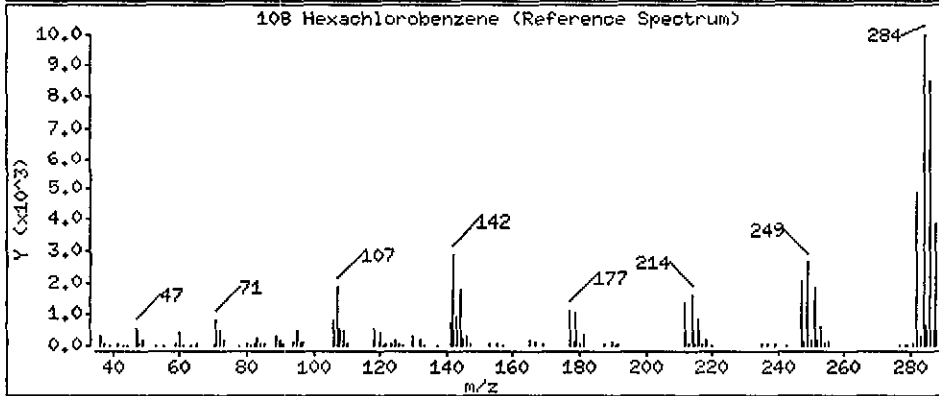
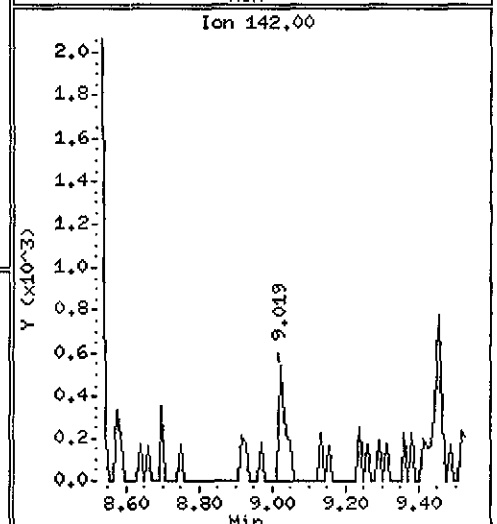
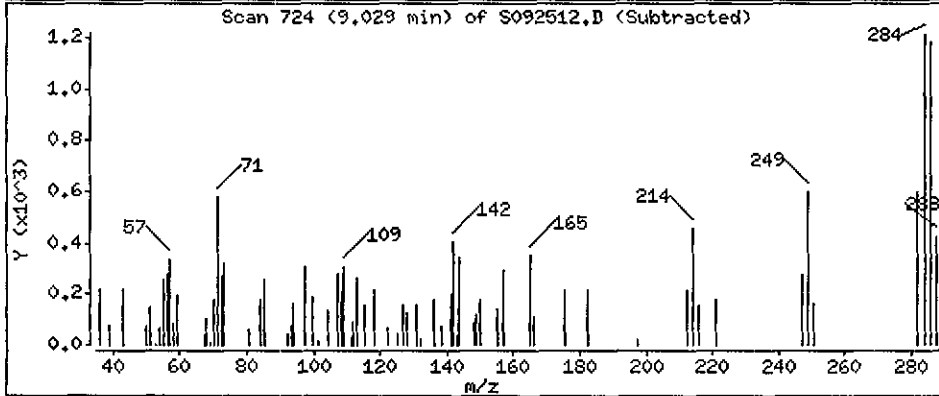
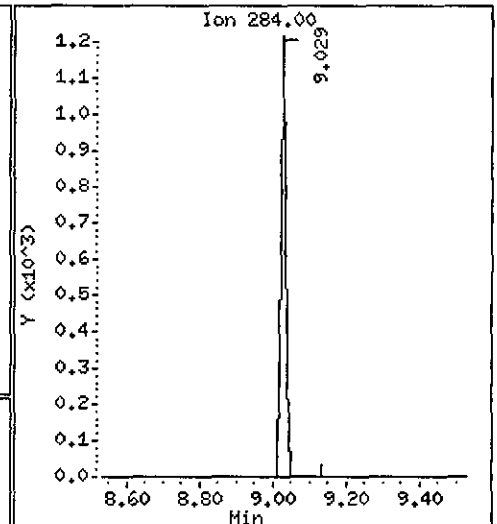
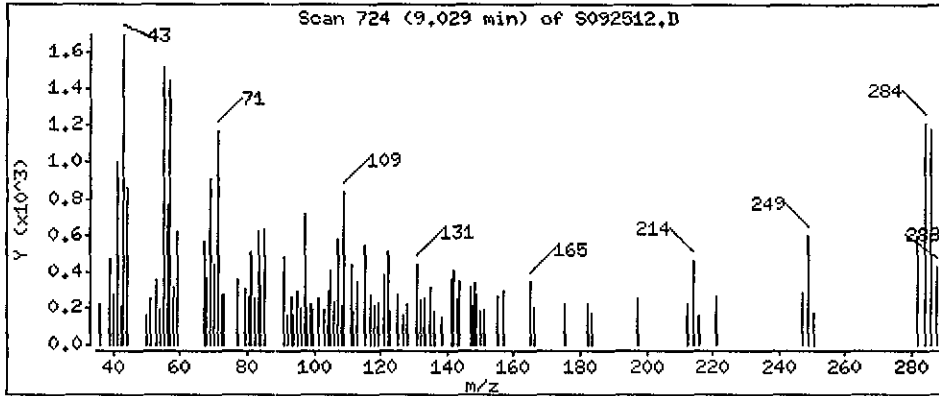
Operator: KT

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 0.6494 ug/L



TestAmerica West Sacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\092510.B\S092513.D  
 Lab Smp Id: L7DQT1AA G0I230491- Client Smp ID: 0266389  
 Inj Date : 25-SEP-2010 20:01  
 Operator : KT Inst ID: sv5.i  
 Smp Info : L7DQT1AA G0I230491-8;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;;0;0266389;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\092510.B\8270f.m  
 Meth Date : 27-Sep-2010 12:16 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 13  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

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

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

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152		3.992	3.992	(1.000)	97335	40.0000	(Q)
* 2 Naphthalene-d8	136		5.412	5.412	(1.000)	405469	40.0000	
* 3 Acenaphthene-d10	164		7.505	7.516	(1.000)	204590	40.0000	
* 4 Phenanthrene-d10	188		9.454	9.464	(1.000)	326890	40.0000	
* 5 Chrysene-d12	240		13.837	13.848	(1.000)	331217	40.0000	
* 6 Perylene-d12	264		16.221	16.231	(1.000)	364243	40.0000	
\$ 7 2-Fluorophenol	112		2.769	2.770	(0.694)	222869	61.9163	61.92
\$ 8 Phenol-d5	99		3.650	3.650	(0.914)	341629	74.0965	74.10
\$ 10 1,2-Dichlorobenzene-d4	152		4.200	4.200	(1.052)	68366	28.2558	28.26 (qR)
\$ 11 Nitrobenzene-d5	82		4.614	4.614	(0.853)	120397	33.2710	33.27
\$ 12 2-Fluorobiphenyl	172		6.718	6.718	(0.895)	272190	42.0372	42.04
\$ 13 2,4,6-Tribromophenol	330		8.521	8.531	(1.135)	89434	111.742	111.7
\$ 14 Terphenyl-d14	244		12.075	12.076	(0.873)	295000	46.0311	46.03
108 Hexachlorobenzene	284		9.029	9.029	(0.955)	11961	7.05550	7.055 (M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
 R - Spike/Surrogate failed recovery limits.  
 M - Compound response manually integrated.

*Handwritten signature and date:*  
 9/27/10

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

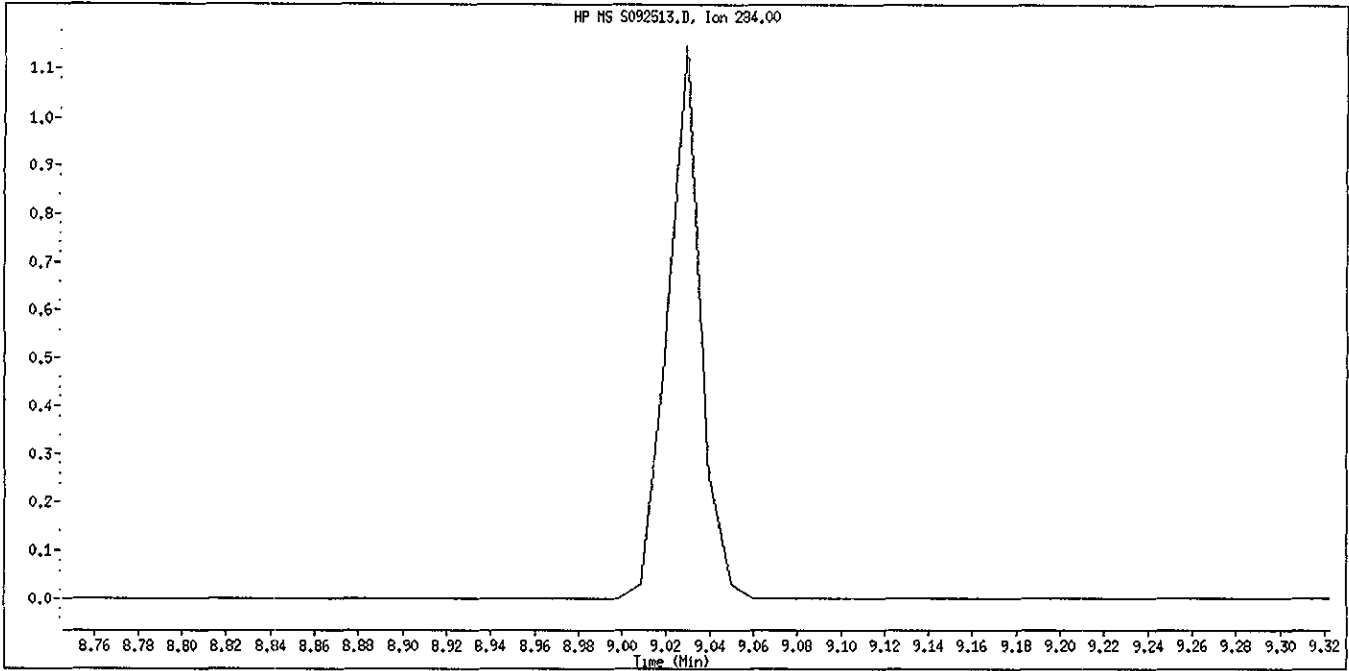
RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L7DQT1AA G0I230491- Client Smp ID: 0266389  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\sv5\c\chem\sv5.i\092510.B\8270f.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

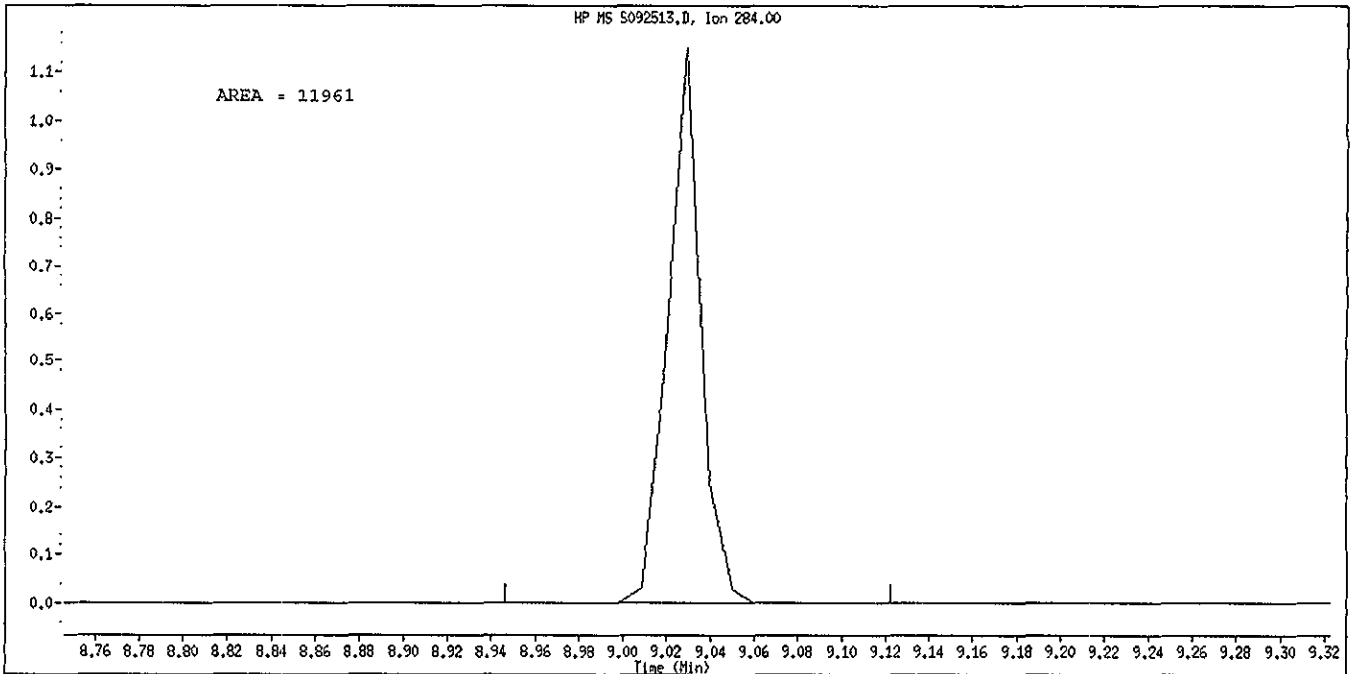
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	61.92	61.92	41-105
\$ 8 Phenol-d5	100.0	74.10	74.10	43-122
\$ 10 1,2-Dichlorobenzen	50.00	28.26	56.51*	60-120
\$ 11 Nitrobenzene-d5	50.00	33.27	66.54	46-118
\$ 12 2-Fluorobiphenyl	50.00	42.04	84.07	58-105
\$ 13 2,4,6-Tribromophen	100.0	111.7	111.74	61-118
\$ 14 Terphenyl-d14	50.00	46.03	92.06	69-110



Data File Name: S092513.D  
Inj. Date and Time: 25-SEP-2010 20:01  
Instrument ID: sv5.i  
Client ID: 0266389  
Compound Name: Hexachlorobenzene  
CAS #: 118-74-1  
Report Date: 09/27/2010



Original Integration



Manual Integration

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

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\092510.B\S092513.D  
 Lab Smp Id: L7DQT1AA G0I230491- Client Smp ID: 0266389  
 Inj Date : 25-SEP-2010 20:01  
 Operator : KT Inst ID: sv5.i  
 Smp Info : L7DQT1AA G0I230491-8;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;;0;0266389;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Meth Date : 25-Sep-2010 17:53 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 13  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SV5

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

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

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.992	3.992	(1.000)	97335	40.0000	(Q)
* 2 Naphthalene-d8	136	5.412	5.412	(1.000)	405469	40.0000	
* 3 Acenaphthene-d10	164	7.505	7.516	(1.000)	204590	40.0000	
* 4 Phenanthrene-d10	188	9.454	9.454	(1.000)	326890	40.0000	
* 5 Chrysene-d12	240	13.837	13.848	(1.000)	331217	40.0000	
* 6 Perylene-d12	264	16.221	16.231	(1.000)	364243	40.0000	
\$ 7 2-Fluorophenol	112	2.769	2.769	(0.694)	222869	61.9163	61.92
\$ 8 Phenol-d5	99	3.650	3.650	(0.914)	341629	74.0965	74.10
\$ 10 1,2-Dichlorobenzene-d4	152	4.200	4.200	(1.052)	68366	28.2558	28.26(qR)
\$ 11 Nitrobenzene-d5	82	4.614	4.614	(0.853)	120397	33.2710	33.27
\$ 12 2-Fluorobiphenyl	172	6.718	6.718	(0.895)	272190	42.0372	42.04
\$ 13 2,4,6-Tribromophenol	330	8.521	8.521	(1.135)	89434	111.742	111.7
\$ 14 Terphenyl-d14	244	12.075	12.075	(0.873)	295000	46.0311	46.03
108 Hexachlorobenzene	284	Compound Not Detected.					

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S092513.D  
 Lab Smp Id: L7DQT1AA G0I230491-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

Calibration Date: 25-SEP-2010  
 Calibration Time: 14:15  
 Client Smp ID: 0266389  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	97335	-13.40
2 Naphthalene-d8	494728	247364	989456	405469	-18.04
3 Acenaphthene-d10	264752	132376	529504	204590	-22.72
4 Phenanthrene-d10	415811	207906	831622	326890	-21.38
5 Chrysene-d12	431516	215758	863032	331217	-23.24
6 Perylene-d12	416460	208230	832920	364243	-12.54

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.99	3.49	4.49	3.99	-0.00
2 Naphthalene-d8	5.41	4.91	5.91	5.41	-0.00
3 Acenaphthene-d10	7.52	7.02	8.02	7.51	-0.14
4 Phenanthrene-d10	9.45	8.95	9.95	9.45	-0.00
5 Chrysene-d12	13.85	13.35	14.35	13.84	-0.08
6 Perylene-d12	16.23	15.73	16.73	16.22	-0.06

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

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L7DQT1AA G0I230491- Client Smp ID: 0266389  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	61.92	61.92	41-105
\$ 8 Phenol-d5	100.0	74.10	74.10	43-122
\$ 10 1,2-Dichlorobenzen	50.00	28.26	56.51*	60-120
\$ 11 Nitrobenzene-d5	50.00	33.27	66.54	46-118
\$ 12 2-Fluorobiphenyl	50.00	42.04	84.07	58-105
\$ 13 2,4,6-Tribromophen	100.0	111.7	111.74	61-118
\$ 14 Terphenyl-d14	50.00	46.03	92.06	69-110

Data File: \\SVS\chem\sv5.i\092510.B\092513.D  
Date: 25-SEP-2010 20:01

Client ID: 0266389

Sample Info: L7J011AA C01230491-8\*0;;;1000;;1000;5

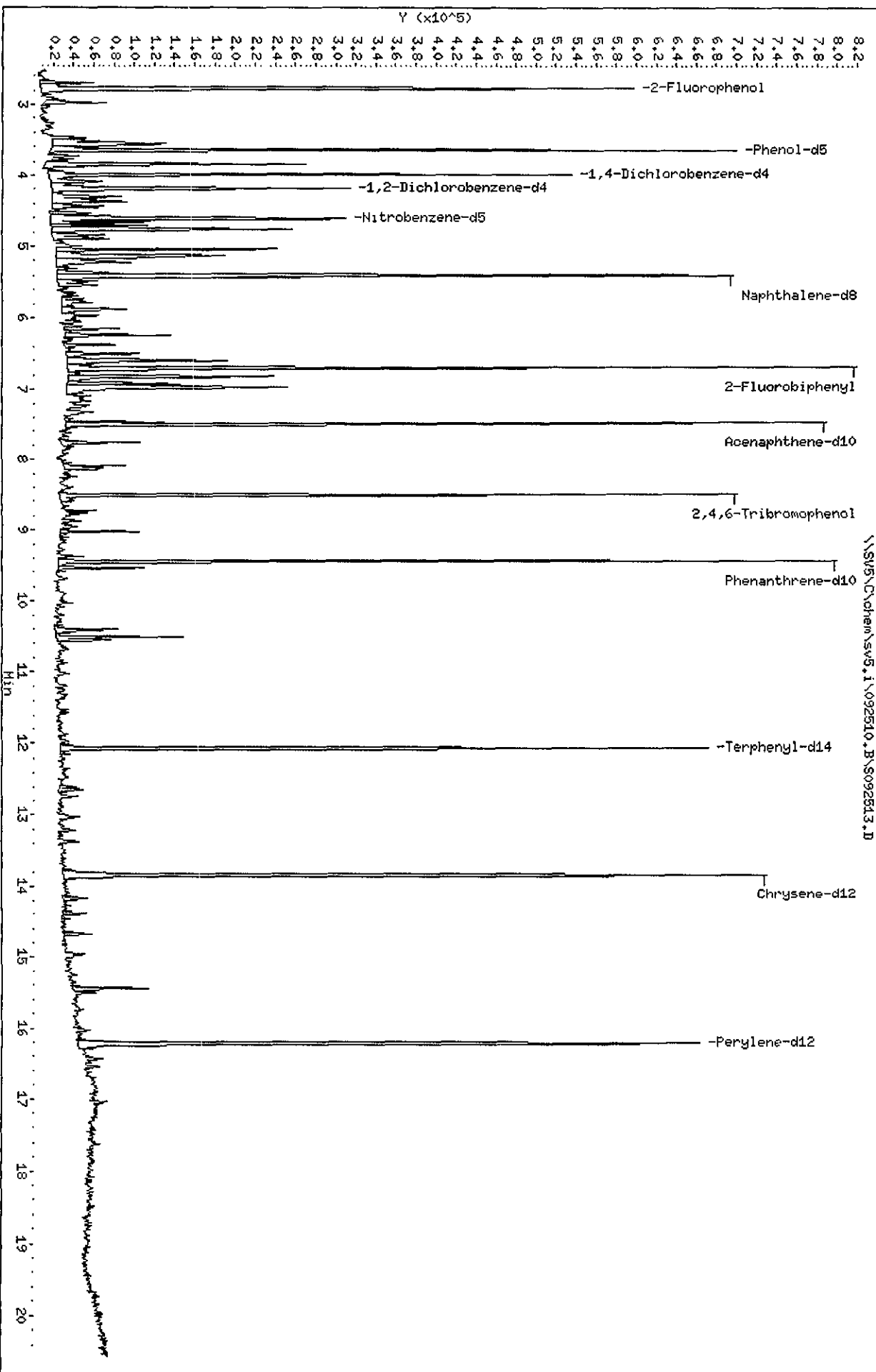
Volume Injected (uL): 1.0

Column phase:

Instrument: sv5.i

Operator: KI

Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\092510.B\S092514.D  
 Lab Smp Id: L7DQ91AA G0I230491- Client Smp ID: 0266389  
 Inj Date : 25-SEP-2010 20:27  
 Operator : KT Inst ID: sv5.i  
 Smp Info : L7DQ91AA G0I230491-14;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\092510.B\8270f.m  
 Meth Date : 27-Sep-2010 12:16 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 14  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

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

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

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152		152	3.992	3.992	(1.000)	142731	40.0000	(Q)
* 2 Naphthalene-d8	136		136	5.412	5.412	(1.000)	592031	40.0000	
* 3 Acenaphthene-d10	164		164	7.506	7.516	(1.000)	317920	40.0000	
* 4 Phenanthrene-d10	188		188	9.454	9.464	(1.000)	510561	40.0000	
* 5 Chrysene-d12	240		240	13.837	13.848	(1.000)	570857	40.0000	
* 6 Perylene-d12	264		264	16.231	16.231	(1.000)	599180	40.0000	
\$ 7 2-Fluorophenol	112		112	2.770	2.770	(0.694)	316029	59.8733	59.87
\$ 8 Phenol-d5	99		99	3.650	3.650	(0.914)	458779	67.8574	67.86
\$ 10 1,2-Dichlorobenzene-d4	152		152	4.189	4.200	(1.049)	90160	25.4116	25.41 (qR)
\$ 11 Nitrobenzene-d5	82		82	4.614	4.614	(0.853)	168754	31.9387	31.94
\$ 12 2-Fluorobiphenyl	172		172	6.718	6.718	(0.895)	373227	37.0938	37.09
\$ 13 2,4,6-Tribromophenol	330		330	8.521	8.531	(1.135)	141830	114.038	114.0
\$ 14 Terphenyl-d14	244		244	12.076	12.076	(0.873)	482989	43.7272	43.73
108 Hexachlorobenzene	284		284	Compound Not Detected.					

QC Flag Legend

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

*Handwritten:* 9/27/10

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L7DQ91AA G0I230491- Client Smp ID: 0266389  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\sv5\c\chem\sv5.i\092510.B\8270f.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	59.87	59.87	41-105
\$ 8 Phenol-d5	100.0	67.86	67.86	43-122
\$ 10 1,2-Dichlorobenzen	50.00	25.41	50.82*	60-120
\$ 11 Nitrobenzene-d5	50.00	31.94	63.88	46-118
\$ 12 2-Fluorobiphenyl	50.00	37.09	74.19	58-105
\$ 13 2,4,6-Tribromophen	100.0	114.0	114.04	61-118
\$ 14 Terphenyl-d14	50.00	43.73	87.45	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\092510.B\S092514.D  
 Lab Smp Id: L7DQ91AA G0I230491- Client Smp ID: 0266389  
 Inj Date : 25-SEP-2010 20:27  
 Operator : KT Inst ID: sv5.i  
 Smp Info : L7DQ91AA G0I230491-14;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Meth Date : 25-Sep-2010 17:53 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 14  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SV5

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

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

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL			
	MASS	RT	EXP RT	REL RT	RESPONSE	( NG)	( ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.992	3.992	(1.000)	142731	40.0000	(Q)
* 2 Naphthalene-d8	136	5.412	5.412	(1.000)	592031	40.0000	
* 3 Acenaphthene-d10	164	7.506	7.516	(1.000)	317920	40.0000	
* 4 Phenanthrene-d10	188	9.454	9.454	(1.000)	510561	40.0000	
* 5 Chrysene-d12	240	13.837	13.848	(1.000)	570857	40.0000	
* 6 Perylene-d12	264	16.231	16.231	(1.000)	599180	40.0000	
\$ 7 2-Fluorophenol	112	2.770	2.769	(0.694)	316029	59.8733	59.87
\$ 8 Phenol-d5	99	3.650	3.650	(0.914)	458779	67.8574	67.86
\$ 10 1,2-Dichlorobenzene-d4	152	4.189	4.200	(1.049)	90160	25.4116	25.41 (qR)
\$ 11 Nitrobenzene-d5	82	4.614	4.614	(0.853)	168754	31.9387	31.94
\$ 12 2-Fluorobiphenyl	172	6.718	6.718	(0.895)	373227	37.0938	37.09
\$ 13 2,4,6-Tribromophenol	330	8.521	8.521	(1.135)	141830	114.038	114.0
\$ 14 Terphenyl-d14	244	12.076	12.075	(0.873)	482989	43.7272	43.73
108 Hexachlorobenzene	284	Compound Not Detected.					

QC Flag Legend

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



TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S092514.D  
 Lab Smp Id: L7DQ91AA G0I230491-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

Calibration Date: 25-SEP-2010  
 Calibration Time: 14:15  
 Client Smp ID: 0266389  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	142731	26.99
2 Naphthalene-d8	494728	247364	989456	592031	19.67
3 Acenaphthene-d10	264752	132376	529504	317920	20.08
4 Phenanthrene-d10	415811	207906	831622	510561	22.79
5 Chrysene-d12	431516	215758	863032	570857	32.29
6 Perylene-d12	416460	208230	832920	599180	43.87

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.99	3.49	4.49	3.99	0.00
2 Naphthalene-d8	5.41	4.91	5.91	5.41	0.00
3 Acenaphthene-d10	7.52	7.02	8.02	7.51	-0.14
4 Phenanthrene-d10	9.45	8.95	9.95	9.45	0.00
5 Chrysene-d12	13.85	13.35	14.35	13.84	-0.07
6 Perylene-d12	16.23	15.73	16.73	16.23	0.00

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

TestAmerica West Sacramento

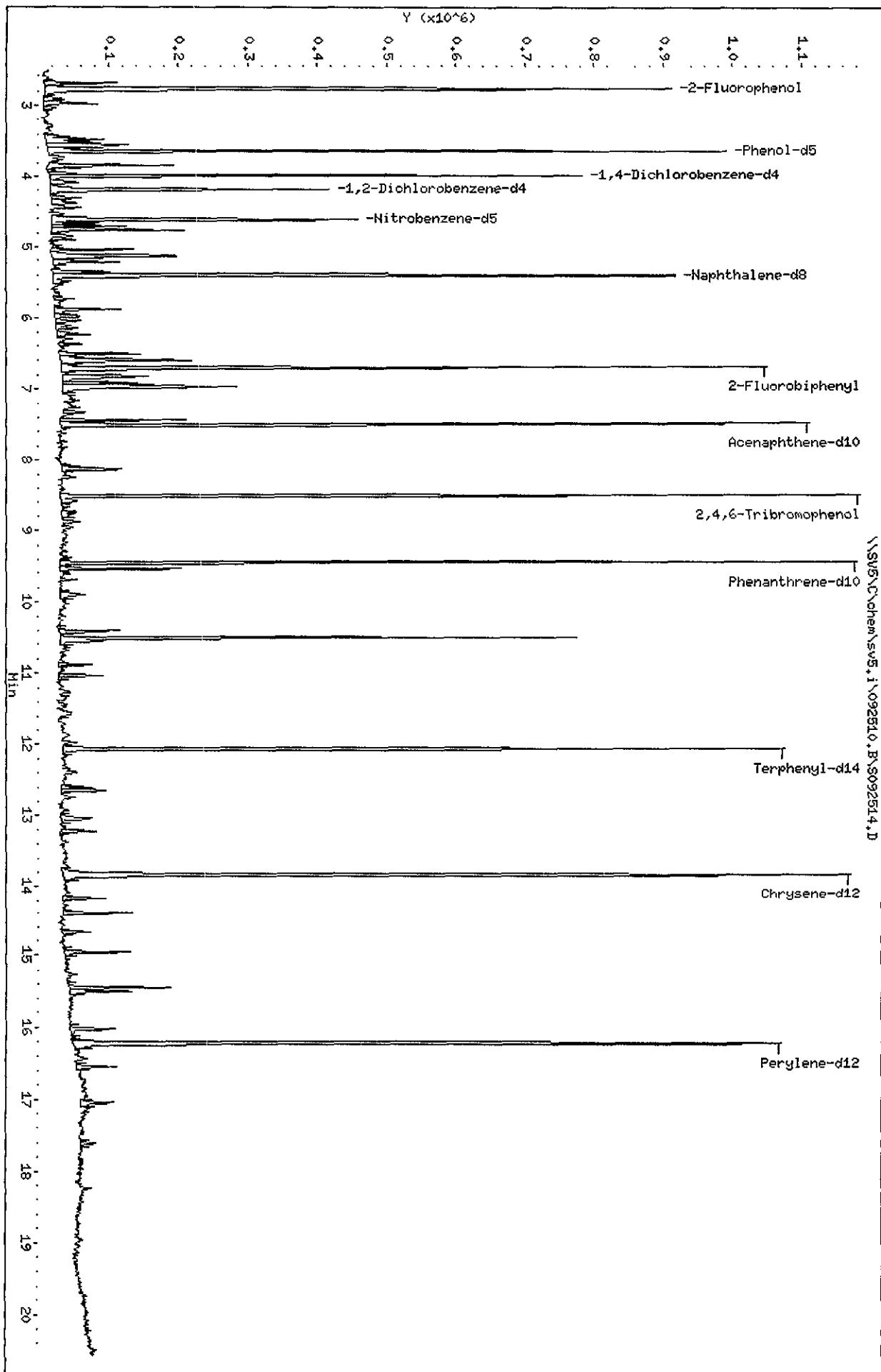
RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L7DQ91AA G0I230491- Client Smp ID: 0266389  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	59.87	59.87	41-105
\$ 8 Phenol-d5	100.0	67.86	67.86	43-122
\$ 10 1,2-Dichlorobenzen	50.00	25.41	50.82*	60-120
\$ 11 Nitrobenzene-d5	50.00	31.94	63.88	46-118
\$ 12 2-Fluorobiphenyl	50.00	37.09	74.19	58-105
\$ 13 2,4,6-Tribromophen	100.0	114.0	114.04	61-118
\$ 14 Terphenyl-d14	50.00	43.73	87.45	69-110

Data File: \\SV5\chem\sv5,i\092510.B\5092514.D  
Date: 25-SEP-2010 20:27  
Client ID: 0266389  
Sample Info: L7D091A9 G01230491-14;0;1000;1000;5  
Volume Injected (uL): 1.0  
Column phase:

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



TestAmerica West Sacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\092510.B\S092515.D  
 Lab Smp Id: L7DRC1AA G0I230491- Client Smp ID: 0266389  
 Inj Date : 25-SEP-2010 20:53  
 Operator : KT Inst ID: sv5.i  
 Smp Info : L7DRC1AA G0I230491-16;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\092510.B\8270f.m  
 Meth Date : 27-Sep-2010 12:16 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 15  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

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

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

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.992	3.992 (1.000)		111685	40.0000	(Q)
* 2 Naphthalene-d8	136	5.412	5.412 (1.000)		472333	40.0000	
* 3 Acenaphthene-d10	164	7.505	7.516 (1.000)		247241	40.0000	
* 4 Phenanthrene-d10	188	9.454	9.464 (1.000)		384100	40.0000	
* 5 Chrysene-d12	240	13.837	13.848 (1.000)		410451	40.0000	
* 6 Perylene-d12	264	16.221	16.231 (1.000)		440198	40.0000	
\$ 7 2-Fluorophenol	112	2.769	2.770 (0.694)		271179	65.6577	65.66
\$ 8 Phenol-d5	99	3.650	3.650 (0.914)		384852	72.7463	72.75
\$ 10 1,2-Dichlorobenzene-d4	152	4.200	4.200 (1.052)		78590	28.3080	28.31 (qR)
\$ 11 Nitrobenzene-d5	82	4.614	4.614 (0.853)		143389	34.0154	34.02
\$ 12 2-Fluorobiphenyl	172	6.718	6.718 (0.895)		326063	41.6704	41.67
\$ 13 2,4,6-Tribromophenol	330	8.521	8.531 (1.135)		101811	105.262	105.3
\$ 14 Terphenyl-d14	244	12.065	12.076 (0.872)		347748	43.7870	43.79
108 Hexachlorobenzene	284	9.029	9.029 (0.955)		14517	7.28776	7.288

9/28/10

QC Flag Legend

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

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498  
Sample Matrix: GAS Fraction: SV  
Lab Smp Id: L7DRC1AA G0I230491- Client Smp ID: 0266389  
Level: LOW Operator: KT  
Data Type: MS DATA SampleType: SAMPLE  
SpikeList File: Quant Type: ISTD  
Sublist File: S11JZHCB.SUB  
Method File: \\sv5\c\chem\sv5.i\092510.B\8270f.m  
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	65.66	65.66	41-105
\$ 8 Phenol-d5	100.0	72.75	72.75	43-122
\$ 10 1,2-Dichlorobenzen	50.00	28.31	56.62*	60-120
\$ 11 Nitrobenzene-d5	50.00	34.02	68.03	46-118
\$ 12 2-Fluorobiphenyl	50.00	41.67	83.34	58-105
\$ 13 2,4,6-Tribromophen	100.0	105.3	105.26	61-118
\$ 14 Terphenyl-d14	50.00	43.79	87.57	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\092510.B\S092515.D  
 Lab Smp Id: L7DRC1AA G0I230491- Client Smp ID: 0266389  
 Inj Date : 25-SEP-2010 20:53  
 Operator : KT Inst ID: sv5.i  
 Smp Info : L7DRC1AA G0I230491-16;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;;0;0266389;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Meth Date : 25-Sep-2010 17:53 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 15  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SV5

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

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

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152		3.992	3.992	(1.000)	111685	40.0000	(Q)
* 2 Naphthalene-d8	136		5.412	5.412	(1.000)	472333	40.0000	
* 3 Acenaphthene-d10	164		7.505	7.516	(1.000)	247241	40.0000	
* 4 Phenanthrene-d10	188		9.454	9.454	(1.000)	384100	40.0000	
* 5 Chrysene-d12	240		13.837	13.848	(1.000)	410451	40.0000	
* 6 Perylene-d12	264		16.221	16.231	(1.000)	440198	40.0000	
\$ 7 2-Fluorophenol	112		2.769	2.769	(0.694)	271179	65.6577	65.66
\$ 8 Phenol-d5	99		3.650	3.650	(0.914)	384852	72.7463	72.75
\$ 10 1,2-Dichlorobenzene-d4	152		4.200	4.200	(1.052)	78590	28.3080	28.31(qR)
\$ 11 Nitrobenzene-d5	82		4.614	4.614	(0.853)	143389	34.0154	34.02
\$ 12 2-Fluorobiphenyl	172		6.718	6.718	(0.895)	326063	41.6704	41.67
\$ 13 2,4,6-Tribromophenol	330		8.521	8.521	(1.135)	101811	105.262	105.3
\$ 14 Terphenyl-d14	244		12.065	12.075	(0.872)	347748	43.7870	43.79
108 Hexachlorobenzene	284		9.029	9.029	(0.955)	14517	7.28776	7.288

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i Calibration Date: 25-SEP-2010  
 Lab File ID: S092515.D Calibration Time: 14:15  
 Lab Smp Id: L7DRC1AA G0I230491- Client Smp ID: 0266389  
 Analysis Type: SV Level: LOW  
 Quant Type: ISTD Sample Type: AIR  
 Operator: KT  
 Method File: \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	111685	-0.64
2 Naphthalene-d8	494728	247364	989456	472333	-4.53
3 Acenaphthene-d10	264752	132376	529504	247241	-6.61
4 Phenanthrene-d10	415811	207906	831622	384100	-7.63
5 Chrysene-d12	431516	215758	863032	410451	-4.88
6 Perylene-d12	416460	208230	832920	440198	5.70

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.99	3.49	4.49	3.99	-0.00
2 Naphthalene-d8	5.41	4.91	5.91	5.41	-0.00
3 Acenaphthene-d10	7.52	7.02	8.02	7.51	-0.14
4 Phenanthrene-d10	9.45	8.95	9.95	9.45	-0.00
5 Chrysene-d12	13.85	13.35	14.35	13.84	-0.08
6 Perylene-d12	16.23	15.73	16.73	16.22	-0.06

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

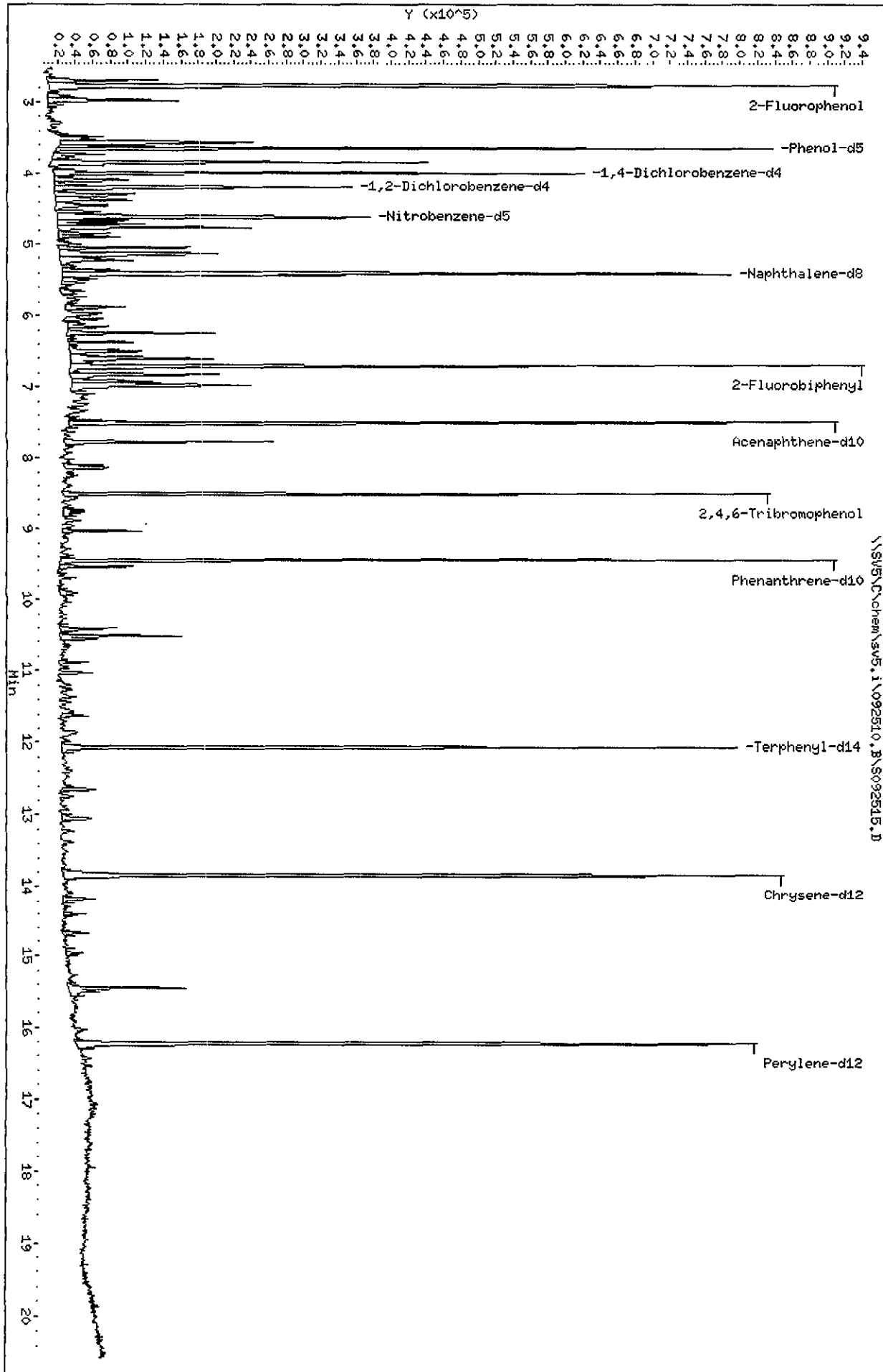
TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L7DRC1AA G0I230491- Client Smp ID: 0266389  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	65.66	65.66	41-105
\$ 8 Phenol-d5	100.0	72.75	72.75	43-122
\$ 10 1,2-Dichlorobenzen	50.00	28.31	56.62*	60-120
\$ 11 Nitrobenzene-d5	50.00	34.02	68.03	46-118
\$ 12 2-Fluorobiphenyl	50.00	41.67	83.34	58-105
\$ 13 2,4,6-Tribromophen	100.0	105.3	105.26	61-118
\$ 14 Terphenyl-d14	50.00	43.79	87.57	69-110





Date : 25-SEP-2010 20:53

Client ID: 0266389

Instrument: sv5.i

Sample Info: L7DRC1AA G01230491-16;0;;;1000;1000;5

Volume Injected (uL): 1.0

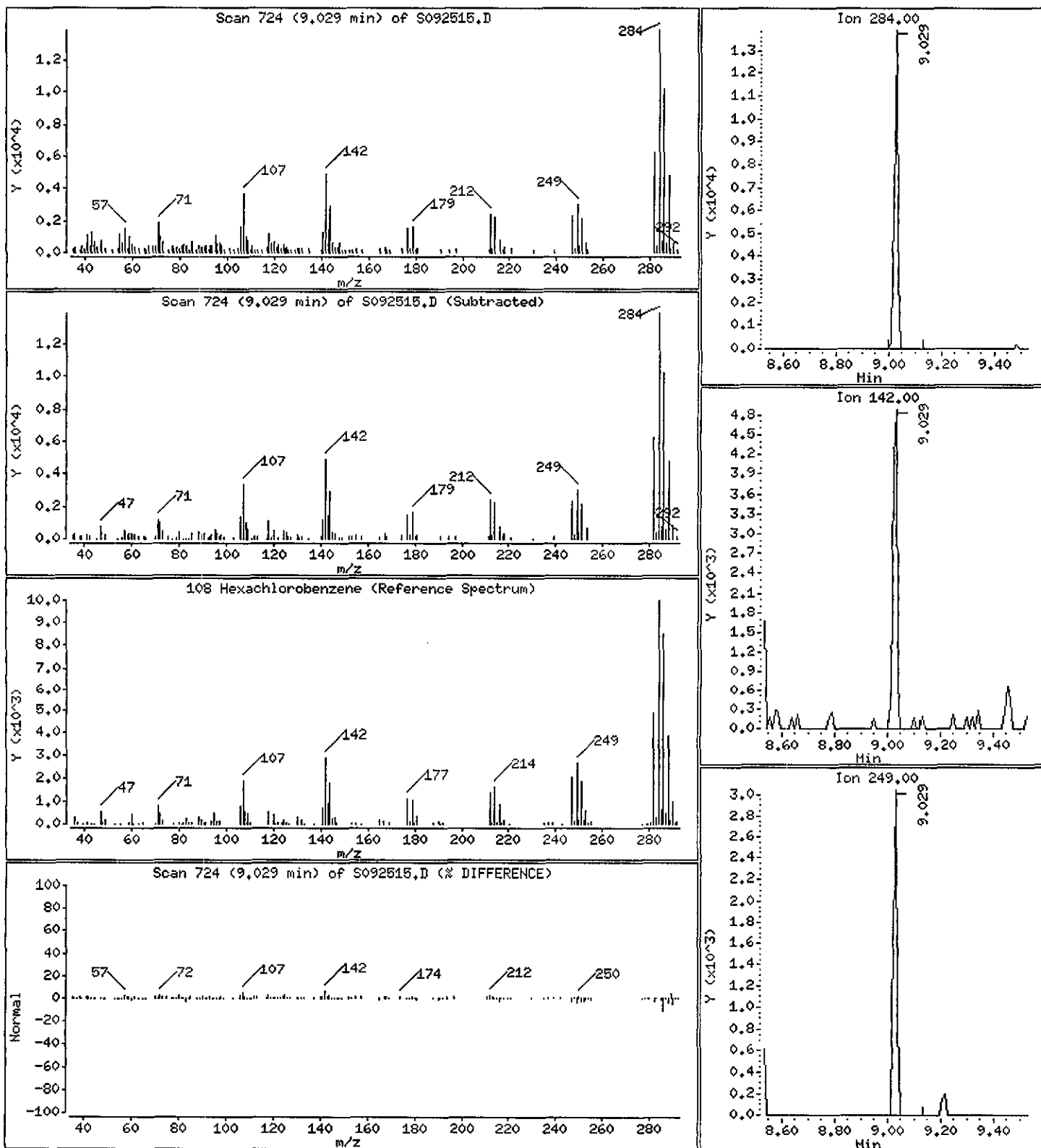
Operator: KT

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 7.288 ug/L



TestAmerica West Sacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\092510.B\S092516.D  
 Lab Smp Id: L7DRG1AA G0I230491- Client Smp ID: 0266389  
 Inj Date : 25-SEP-2010 21:19  
 Operator : KT Inst ID: sv5.i  
 Smp Info : L7DRG1AA G0I230491-18;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\092510.B\8270f.m  
 Meth Date : 27-Sep-2010 12:16 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 16  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

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

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

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	RT	EXP RT	REL RT	RESPONSE	( NG)	( ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.992	3.992	(1.000)	121480	40.0000	(Q)
* 2 Naphthalene-d8	136	5.412	5.412	(1.000)	546279	40.0000	
* 3 Acenaphthene-d10	164	7.506	7.516	(1.000)	296872	40.0000	
* 4 Phenanthrene-d10	188	9.454	9.464	(1.000)	490656	40.0000	
* 5 Chrysene-d12	240	13.837	13.848	(1.000)	569405	40.0000	
* 6 Perylene-d12	264	16.231	16.231	(1.000)	600794	40.0000	
\$ 7 2-Fluorophenol	112	2.770	2.770	(0.694)	298428	66.4292	66.43
\$ 8 Phenol-d5	99	3.650	3.650	(0.914)	461447	80.1916	80.19
\$ 10 1,2-Dichlorobenzene-d4	152	4.200	4.200	(1.052)	81477	26.9816	26.98 (qR)
\$ 11 Nitrobenzene-d5	82	4.614	4.614	(0.853)	170469	34.9654	34.96
\$ 12 2-Fluorobiphenyl	172	6.718	6.718	(0.895)	395893	42.1361	42.14
\$ 13 2,4,6-Tribromophenol	330	8.521	8.531	(1.135)	140192	120.713	120.7 (R)
\$ 14 Terphenyl-d14	244	12.076	12.076	(0.873)	472262	42.8651	42.86
108 Hexachlorobenzene	284	Compound Not Detected.					

QC Flag Legend

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

*Handwritten signature:* 9/27/10

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L7DRG1AA G0I230491- Client Smp ID: 0266389  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\sv5\c\chem\sv5.i\092510.B\8270f.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	66.43	66.43	41-105
\$ 8 Phenol-d5	100.0	80.19	80.19	43-122
\$ 10 1,2-Dichlorobenzen	50.00	26.98	53.96*	60-120
\$ 11 Nitrobenzene-d5	50.00	34.96	69.93	46-118
\$ 12 2-Fluorobiphenyl	50.00	42.14	84.27	58-105
\$ 13 2,4,6-Tribromophen	100.0	120.7	120.71*	61-118
\$ 14 Terphenyl-d14	50.00	42.86	85.73	69-110

TestAmerica West Sacramento

Method 8270C  
 Data file : \\SV5\C\chem\sv5.i\092510.B\S092516.D  
 Lab Smp Id: L7DRG1AA G0I230491- Client Smp ID: 0266389  
 Inj Date : 25-SEP-2010 21:19  
 Operator : KT Inst ID: sv5.i  
 Smp Info : L7DRG1AA G0I230491-18;0;;;1000;;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;;0;0266389;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Meth Date : 25-Sep-2010 17:53 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 16  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SV5

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

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

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.992	3.992	(1.000)	121480	40.0000	(Q)
* 2 Naphthalene-d8	136	5.412	5.412	(1.000)	546279	40.0000	
* 3 Acenaphthene-d10	164	7.506	7.516	(1.000)	296872	40.0000	
* 4 Phenanthrene-d10	188	9.454	9.454	(1.000)	490656	40.0000	
* 5 Chrysene-d12	240	13.837	13.848	(1.000)	569405	40.0000	
* 6 Perylene-d12	264	16.231	16.231	(1.000)	600794	40.0000	
\$ 7 2-Fluorophenol	112	2.770	2.769	(0.694)	298428	66.4292	66.43
\$ 8 Phenol-d5	99	3.650	3.650	(0.914)	461447	80.1916	80.19
\$ 10 1,2-Dichlorobenzene-d4	152	4.200	4.200	(1.052)	81477	26.9816	26.98 (qR)
\$ 11 Nitrobenzene-d5	82	4.614	4.614	(0.853)	170469	34.9654	34.96
\$ 12 2-Fluorobiphenyl	172	6.718	6.718	(0.895)	395893	42.1361	42.14
\$ 13 2,4,6-Tribromophenol	330	8.521	8.521	(1.135)	140192	120.713	120.7 (R)
\$ 14 Terphenyl-d14	244	12.076	12.075	(0.873)	472262	42.8651	42.86
108 Hexachlorobenzene	284	Compound Not Detected.					

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i	Calibration Date: 25-SEP-2010
Lab File ID: S092516.D	Calibration Time: 14:15
Lab Smp Id: L7DRG1AA G0I230491-	Client Smp ID: 0266389
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: KT	
Method File: \\SV5\C\chem\sv5.i\092510.B\8270F.m	
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M	

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	121480	8.08
2 Naphthalene-d8	494728	247364	989456	546279	10.42
3 Acenaphthene-d10	264752	132376	529504	296872	12.13
4 Phenanthrene-d10	415811	207906	831622	490656	18.00
5 Chrysene-d12	431516	215758	863032	569405	31.95
6 Perylene-d12	416460	208230	832920	600794	44.26

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.99	3.49	4.49	3.99	0.00
2 Naphthalene-d8	5.41	4.91	5.91	5.41	0.00
3 Acenaphthene-d10	7.52	7.02	8.02	7.51	-0.14
4 Phenanthrene-d10	9.45	8.95	9.95	9.45	0.00
5 Chrysene-d12	13.85	13.35	14.35	13.84	-0.07
6 Perylene-d12	16.23	15.73	16.73	16.23	0.00

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

TestAmerica West Sacramento

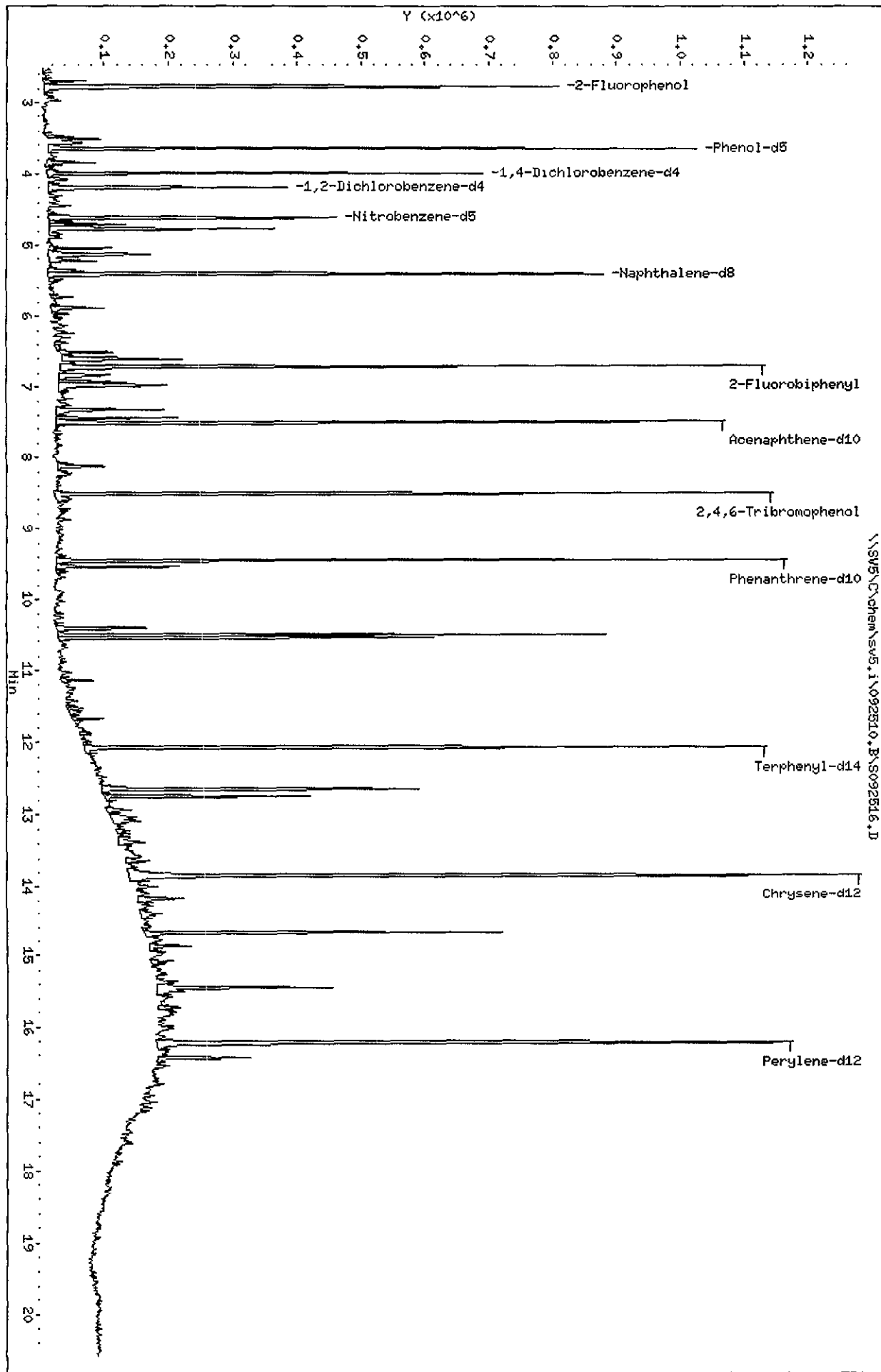
RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L7DRG1AA G0I230491- Client Smp ID: 0266389  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	66.43	66.43	41-105
\$ 8 Phenol-d5	100.0	80.19	80.19	43-122
\$ 10 1,2-Dichlorobenzen	50.00	26.98	53.96*	60-120
\$ 11 Nitrobenzene-d5	50.00	34.96	69.93	46-118
\$ 12 2-Fluorobiphenyl	50.00	42.14	84.27	58-105
\$ 13 2,4,6-Tribromophen	100.0	120.7	120.71*	61-118
\$ 14 Terphenyl-d14	50.00	42.86	85.73	69-110

Data File: \\SV5\chem\sv5.1\092810.B\S092816.D  
Date: 28-SEP-2010 21:19  
Client ID: 0266389  
Sample Info: L7DR6194 G01230491-1810110001100015  
Volume Injected (uL): 1.0  
Column phase:

Instrument: sv5.1  
Operator: KI  
Column diameter: 2.00





TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\092510.B\S092517.D  
 Lab Smp Id: L7DRJ1AA G0I230491- Client Smp ID: 0266389  
 Inj Date : 25-SEP-2010 21:45  
 Operator : KT Inst ID: sv5.i  
 Smp Info : L7DRJ1AA G0I230491-20;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\092510.B\8270f.m  
 Meth Date : 27-Sep-2010 12:16 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 17  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

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

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

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152	3.992	3.992	(1.000)	104273	40.0000		(Q)
* 2 Naphthalene-d8	136	5.412	5.412	(1.000)	440841	40.0000		
* 3 Acenaphthene-d10	164	7.505	7.516	(1.000)	228015	40.0000		
* 4 Phenanthrene-d10	188	9.454	9.464	(1.000)	360425	40.0000		
* 5 Chrysene-d12	240	13.837	13.848	(1.000)	384389	40.0000		
* 6 Perylene-d12	264	16.221	16.231	(1.000)	409296	40.0000		
\$ 7 2-Fluorophenol	112	2.769	2.770	(0.694)	244721	63.4635	63.46	
\$ 8 Phenol-d5	99	3.650	3.650	(0.914)	372458	75.4080	75.41	
\$ 10 1,2-Dichlorobenzene-d4	152	4.200	4.200	(1.052)	71429	27.5575	27.56	(qR)
\$ 11 Nitrobenzene-d5	82	4.614	4.614	(0.853)	133590	33.9547	33.95	
\$ 12 2-Fluorobiphenyl	172	6.718	6.718	(0.895)	305772	42.3721	42.37	
\$ 13 2,4,6-Tribromophenol	330	8.521	8.531	(1.135)	100992	113.220	113.2	
\$ 14 Terphenyl-d14	244	12.065	12.076	(0.872)	328897	44.2212	44.22	
108 Hexachlorobenzene	284	9.029	9.029	(0.955)	13797	7.38128	7.381	

QC Flag Legend

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

*Handwritten:* 9/28/10

TestAmerica West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L7DRJ1AA G0I230491- Client Smp ID: 0266389  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\sv5\c\chem\sv5.i\092510.B\8270f.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	63.46	63.46	41-105
\$ 8 Phenol-d5	100.0	75.41	75.41	43-122
\$ 10 1,2-Dichlorobenzen	50.00	27.56	55.11*	60-120
\$ 11 Nitrobenzene-d5	50.00	33.95	67.91	46-118
\$ 12 2-Fluorobiphenyl	50.00	42.37	84.74	58-105
\$ 13 2,4,6-Tribromophen	100.0	113.2	113.22	61-118
\$ 14 Terphenyl-d14	50.00	44.22	88.44	69-110

TestAmerica West Sacramento

Method 8270C  
 Data file : \\SV5\C\chem\sv5.i\092510.B\S092517.D  
 Lab Smp Id: L7DRJ1AA G0I230491- Client Smp ID: 0266389  
 Inj Date : 25-SEP-2010 21:45  
 Operator : KT Inst ID: sv5.i  
 Smp Info : L7DRJ1AA G0I230491-20;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Meth Date : 25-Sep-2010 17:53 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 17  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SV5

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

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

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152		3.992	3.992	(1.000)	104273	40.0000	(Q)
* 2 Naphthalene-d8	136		5.412	5.412	(1.000)	440841	40.0000	
* 3 Acenaphthene-d10	164		7.505	7.516	(1.000)	228015	40.0000	
* 4 Phenanthrene-d10	188		9.454	9.454	(1.000)	360425	40.0000	
* 5 Chrysene-d12	240		13.837	13.848	(1.000)	384389	40.0000	
* 6 Perylene-d12	264		16.221	16.231	(1.000)	409296	40.0000	
\$ 7 2-Fluorophenol	112		2.769	2.769	(0.694)	244721	63.4635	63.46
\$ 8 Phenol-d5	99		3.650	3.650	(0.914)	372458	75.4080	75.41
\$ 10 1,2-Dichlorobenzene-d4	152		4.200	4.200	(1.052)	71429	27.5575	27.56 (qR)
\$ 11 Nitrobenzene-d5	82		4.614	4.614	(0.853)	133590	33.9547	33.95
\$ 12 2-Fluorobiphenyl	172		6.718	6.718	(0.895)	305772	42.3721	42.37
\$ 13 2,4,6-Tribromophenol	330		8.521	8.521	(1.135)	100992	113.220	113.2
\$ 14 Terphenyl-d14	244		12.065	12.075	(0.872)	328897	44.2212	44.22
108 Hexachlorobenzene	284		9.029	9.029	(0.955)	13797	7.38128	7.381

QC Flag Legend

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

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S092517.D  
 Lab Smp Id: L7DRJ1AA G0I230491-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

Calibration Date: 25-SEP-2010  
 Calibration Time: 14:15  
 Client Smp ID: 0266389  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	104273	-7.23
2 Naphthalene-d8	494728	247364	989456	440841	-10.89
3 Acenaphthene-d10	264752	132376	529504	228015	-13.88
4 Phenanthrene-d10	415811	207906	831622	360425	-13.32
5 Chrysene-d12	431516	215758	863032	384389	-10.92
6 Perylene-d12	416460	208230	832920	409296	-1.72

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.99	3.49	4.49	3.99	0.00
2 Naphthalene-d8	5.41	4.91	5.91	5.41	0.00
3 Acenaphthene-d10	7.52	7.02	8.02	7.51	-0.14
4 Phenanthrene-d10	9.45	8.95	9.95	9.45	0.00
5 Chrysene-d12	13.85	13.35	14.35	13.84	-0.07
6 Perylene-d12	16.23	15.73	16.73	16.22	-0.06

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

TestAmerica West Sacramento

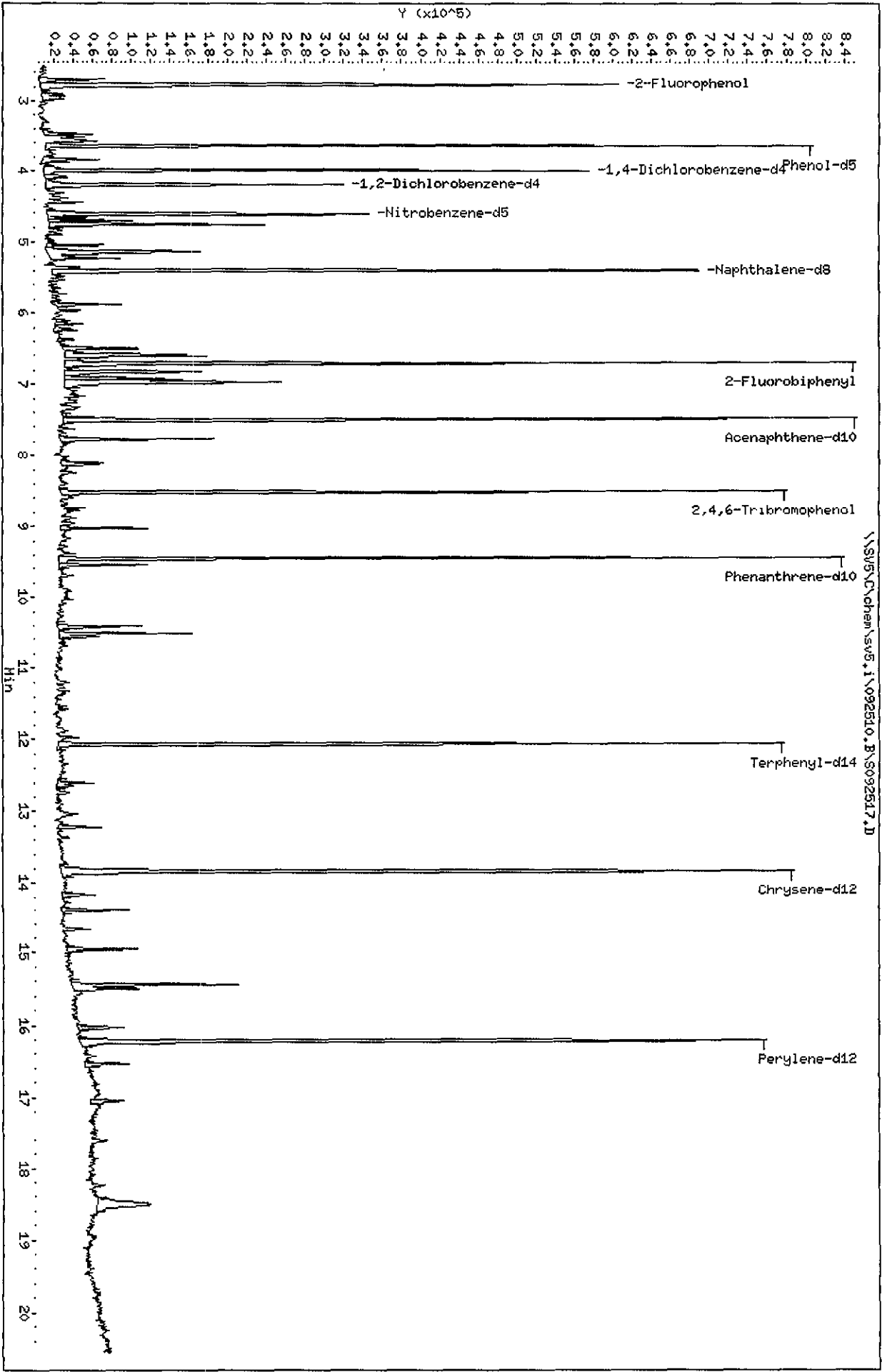
RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L7DRJ1AA G0I230491- Client Smp ID: 0266389  
 Level: LOW Operator: KT  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\SV5\C\chem\sv5.i\092510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0266389;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	63.46	63.46	41-105
\$ 8 Phenol-d5	100.0	75.41	75.41	43-122
\$ 10 1,2-Dichlorobenzen	50.00	27.56	55.11*	60-120
\$ 11 Nitrobenzene-d5	50.00	33.95	67.91	46-118
\$ 12 2-Fluorobiphenyl	50.00	42.37	84.74	58-105
\$ 13 2,4,6-Tribromophen	100.0	113.2	113.22	61-118
\$ 14 Terphenyl-d14	50.00	44.22	88.44	69-110

Data File: \\SVS5\chem\sv5.i\092510.B\S092517.D  
 Date: 25-SEP-2010 21:45  
 Client ID: 0266389  
 Sample Info: L7DRJ1A4 G01230491-20:0:11000:11000:5  
 Volume Injected (uL): 1.0  
 Column phases:

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



Date : 25-SEP-2010 21:45

Client ID: 0266389

Instrument: sv5.i

Sample Info: L7DRJ1AA G01230491-20;0;;1000;;1000;5

Volume Injected (uL): 1.0

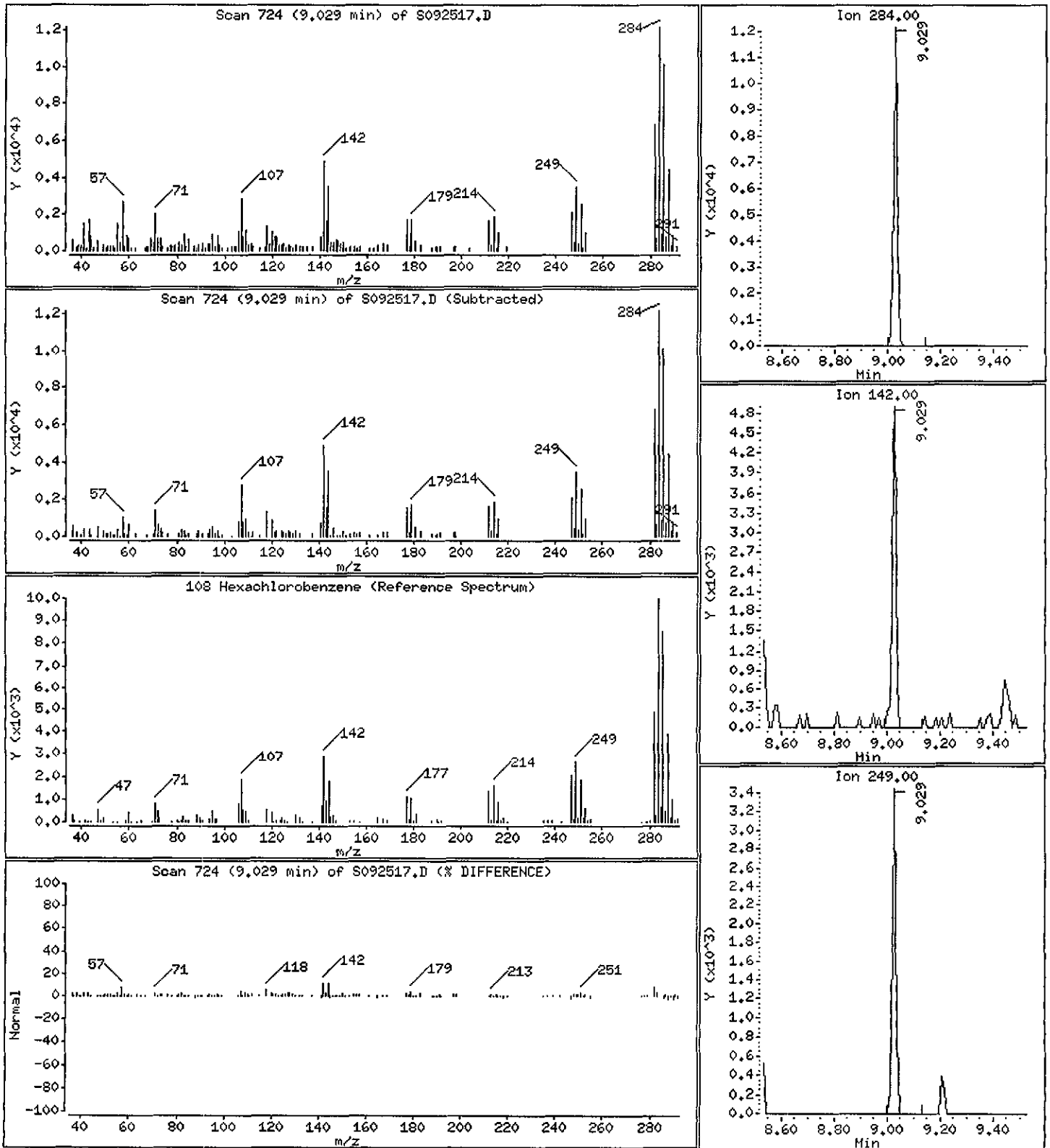
Operator: KT

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 7,381 ug/L



# **Initial Calibration**

***Includes (as applicable):***

***runlog***

***standard raw data***

***statistical summary***

***ms tune data***



Instrument: SV5

DFTPP Mix ID: 10MSSV0129

Injection Date: 8/23/2010

STD Mix IDs: 10MSSV0307-0313

Initiator/Date: SRS/8/24/2010

2<sup>nd</sup> Source Mix ID: 10MSSV0314-306 314  
SRS/8/24/10

Reviewer/Date: *[Signature]* 8/24/10

NCM \_\_\_\_\_

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

	Initiated	Reviewed		Initiated	Reviewed
N-nitroso-di-n-propylamine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2,4-Dinitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hexachlorocyclopentadiene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4-Nitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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

	Initiated	Reviewed		Initiated	Reviewed
Phenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Acenaphthene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1,4-Dichlorobenzene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N-nitrosodiphenylamine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2-Nitrophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Pentachlorophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2,4-Dichlorophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Fluoranthene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hexachlorobutadiene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Di-n-octyl phthalate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4-chloro-3-methylphenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Benzo(a)pyrene	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2,4,6-Trichlorophenol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

**III: Other Criteria**

The custom.rp shows that the average of the average is less than 15% on the CCV level standard. Avg of AVG: \_\_\_\_\_

Tailing and degradation criteria are met.

The Tune Documentation is present and meets criteria

All Internal Standards within 50-200% of ICAL mid-point.

Calibration History Included.

Manual re-integrations are checked/initialed and hardcopies included.

Standards analyzed with within 12 hours of Tune time.

Retention time correct for Isomers and all other analytes.

Linear Regressions >0.990 and intercept < ± (½ RL / IS amount)

The second source standard meets the SSCS criteria

File Name: \_\_\_\_\_

Initiated	Reviewed
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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

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

~~Benzidine @ -35.9%~~

3,3'-Dichlorobenzidine @ -43.6% *[Signature]*

N-Nitrosodiphenylamine = -6.08%D after converse calculation.

\*\* Conversed Diphenylamine in ICAL and N-Nitrosodiphenylamine in 2<sup>nd</sup> Source. See Attached note.

~~1,3,5-Trinitrobenzene UCL @ 110 ppb. 8/24/10~~

**Truong, Kenny Q**

---

**From:** Allameh, David  
**Sent:** Tuesday, September 01, 2009 9:40 AM  
**To:** Truong, Kenny Q; Onishi, Marc; Young, Roger  
**Subject:** FW: n-nitrosodiphenylamine and diphenylamine

FYI. DA

**DAVID ALLAMEH**  
Organic & Advance Tech Instrument Manager

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING

880 Riverside Parkway  
West Sacramento, CA 95605  
Tel 916.374.4316 | Fax 916.372.1059  
[www.testamericainc.com](http://www.testamericainc.com)

---

**From:** Burrows, Richard  
**Sent:** Tuesday, September 01, 2009 9:36 AM  
**To:** Tech Contact - Semi MS  
**Cc:** Quality Assurance Mgrs; Carter, Charlie  
**Subject:** n-nitrosodiphenylamine and diphenylamine

As you probably know, n-nitrosodiphenylamine breaks down to diphenylamine in the injection port of the GC. Therefore n-nitrosodiphenylamine and diphenylamine cannot be distinguished unless a separation step is performed prior to analysis.

We recently noticed that some standards vendors make up most of their mixed 8270 calibration standards using diphenylamine, (eg Restek) while others use mostly n-nitrosodiphenylamine (eg Accustandard). Others have quite a mix (eg Ultra).

Depending on what you are using to calibrate, and what you are reporting, it may be necessary to apply a correction to the standards concentration because of the molecular weight difference between the two analytes.

→ Diphenylamine molecular weight = 169  
n-nitrosodiphenylamine molecular weight = 198

If you are calibrating with a standard containing diphenylamine and reporting n-nitrosodiphenylamine then the concentration of the standard should be corrected by the factor  $198/169 = 1.1716$

I.e., a 100ppm diphenylamine is equivalent to a 117ppm n-nitrosodiphenylamine standard.

Conversely a 100ppm n-nitrosodiphenylamine standard is equivalent to  $100 \times 169/198 = 85.4$ ppm diphenylamine standard.

Please check your standards and make any necessary adjustments next time you calibrate the instrument. It is not necessary to check past data since the correction is quite small and detections in field samples are rare.

Richard

9/4/2009



Report Date : 24-Aug-2010 16:58

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
 End Cal Date : 23-AUG-2010 18:50  
 Quant Method : ISTD  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\SV5\C\chem\sv5.i\082310B.B\8270F.M  
 Last Edit : 24-Aug-2010 16:38 scotts

Calibration File Names:

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

Compound	120.0000							Coefficients		%RSD or R^2	
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	b	m1		m2
15 N-Nitrosodimethylamine	0.96889 1.05190	1.05182	0.99956	0.99636	1.00582	1.05227	AVRG		1.01809		3.31569
16 Pyridine	1.74257 1.72467	1.59471	1.74951	1.63473	1.66672	1.69519	AVRG		1.68687		3.43478
23 Aniline	2.24812 2.45688	2.28154	2.37340	2.38842	2.38827	2.47149	AVRG		2.37259		3.49111
24 Phenol	1.88616 2.05304	1.93326	2.00386	2.01812	2.00543	2.06067	AVRG		1.99436		3.17504

Manual calculation for 4- chloroaniline @ Level 5  
 $\frac{470189}{521662} \times \frac{40}{80} = 0.45066$  by gwh/m

TestAmerica West Sacramento

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 Method file : \\SV5\C\chem\sv5.i\082310B.B\8270f.m  
 Last Edit : 24-Aug-2010 16:38 scotts

Compound	120.0000							Curve	Coefficients		RSD or R <sup>2</sup>
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	b		ml	m2	
26 Bis(2-chloroethyl) ether	1.47312 Level 7	1.56559	1.55119	1.49744	1.49537	1.56317	AVRG	1.52541		2.41864	
27 2-Chlorophenol	1.52824	1.56033	1.61368	1.58355	1.57468	1.60613	AVRG	1.59023		1.85377	
28 1,3-Dichlorobenzene	1.73906	1.72995	1.60379	1.71236	1.72294	1.75843	AVRG	1.74334		1.73709	
29 1,4-Dichlorobenzene	1.66586	1.73928	1.83198	1.77477	1.75374	1.81591	AVRG	1.76599		3.10324	
30 Benzyl Alcohol	1.04428	1.06832	1.06188	1.03772	1.08155	1.14825	AVRG	1.08397		4.19469	
31 1,2-Dichlorobenzene	1.68974	1.67274	1.71059	1.64423	1.64560	1.65052	AVRG	1.66769		1.49730	
32 2-Methylphenol	1.38289	1.42297	1.48961	1.51774	1.50470	1.55035	AVRG	1.48902		4.31730	

TestAmerica West Sacramento

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Compound	5.0000		10.0000		20.0000		50.0000		80.0000		120.0000		Curve	b	Coefficients mL	m2	RMSD or R <sup>2</sup>	
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 6	Level 6										
33 2,2'-oxybis(1-Chloropropane)	2.84785	2.85870	2.95562	2.91080	2.89000	2.96987							AVRG	2.90571			1.56706	
	2.90713																	
34 4-Methylphenol	1.43204	1.55502	1.60476	1.60650	1.60766	1.65718							AVRG	1.58517			4.69088	
	1.63301																	
36 Hexachloroethane	0.62035	0.60365	0.62821	0.60905	0.62746	0.63771							AVRG	0.62210			1.92646	
	0.62827																	
37 N-Nitrosodipropylamine	1.09571	1.08610	1.10028	1.12427	1.11067	1.15868							AVRG	1.11560			2.24842	
	1.13347																	
42 Nitrobenzene	0.36219	0.34203	0.34763	0.35298	0.36080	0.36388							AVRG	0.35575			2.35137	
	0.36074																	
44 Isophorone	0.66145	0.63880	0.64953	0.68152	0.68986	0.71183							AVRG	0.67837			3.89210	
	0.69459																	
45 2-Nitrophenol	0.17049	0.18464	0.18131	0.19207	0.20021	0.20605							AVRG	0.19133			6.91310	
	0.20453																	









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Compound	Level							Curve	Coefficients			%RSD or R <sup>2</sup>
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	b		ml	m2		
83 Dibenzofuran	1.64751 1.65111	1.63735	1.61938	1.66053	1.65279	1.64898	AVRG	1.64538			0.81370	
84 4-Nitrophenol	0.14764 0.18039	0.16735	0.16748	0.18141	0.17084	0.18103	AVRG	0.17088			7.04062	
86 2,4-Dinitrotoluene	0.33434 0.42263	0.35645	0.36707	0.41360	0.40454	0.41333	AVRG	0.38742			8.86723	
91 Fluorene	1.29343 1.34937	1.36101	1.33937	1.37726	1.35126	1.37156	AVRG	1.34904			2.06093	
92 Diethylphthalate	1.40422 1.35208	1.34275	1.30040	1.37771	1.34457	1.35434	AVRG	1.35372			2.36989	
93 4-Chlorophenyl-phenylether	0.56372 0.54015	0.56547	0.54356	0.56707	0.55320	0.54375	AVRG	0.55385			2.08891	
94 4-Nitroaniline	0.33600 0.40361	0.34650	0.36880	0.40047	0.40300	0.39022	AVRG	0.37837			7.45545	

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Compound	5.0000		10.0000		20.0000		50.0000		80.0000		120.0000		Coefficients		RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2					
97 4,6-Dinitro-2-methylphenol	3873 272263	9956	23755	72789	120703	236110	LINEAR	0.11602	0.15901						0.99754
98 N-Nitrosodiphenylamine	0.63329 0.62213	0.64394	0.61161	0.62470	0.61303	0.63481	AVRG		0.62622						1.89406
100 Azobenzene	0.85141 0.88648	0.86535	0.86960	0.91029	0.89569	0.90641	AVRG		0.89363						2.51238
101 4-Bromophenyl-phenylether	0.18167 0.19475	0.19743	0.18779	0.18956	0.18908	0.20302	AVRG		0.19190						3.66766
108 Hexachlorobenzene	0.20429 0.20357	0.21624	0.20371	0.20680	0.20359	0.21391	AVRG		0.20744						2.59081
110 Pentachlorophenol	0.10660 0.14361	0.11478	0.11400	0.13968	0.13362	0.14680	AVRG		0.12850						12.66814
114 Phenanthrene	1.21917 1.25159	1.28019	1.23623	1.27426	1.22593	1.27878	AVRG		1.25231						2.06531

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Compound	Levels							Curve	Coefficients		%RSD or R^2
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	b		m1	m2	
115 Anthracene	1.19986 1.27499	1.22604	1.26048	1.29165	1.25985	1.30813	AVRG	1.26014			2.95384
118 Carbazole	1.11142 1.19503	1.16563	1.17347	1.21035	1.15248	1.23437	AVRG	1.17754			3.42691
120 DI-n-Butylphthalate	1.26476 1.54551	1.32448	1.35483	1.47670	1.44506	1.57000	AVRG	1.42590			8.06364
126 Fluoranthene	1.04236 1.20117	1.08537	1.09172	1.16724	1.13207	1.20258	AVRG	1.13179			5.45124
127 Benzidine	0.69817 0.89528	0.76119	0.80297	0.86970	0.87146	0.89384	AVRG	0.82752			9.15455
128 Pyrene	1.23262 1.22735	1.23070	1.23452	1.22497	1.26083	1.28201	AVRG	1.24186			1.71815
134 3,3'-dimethylbenzidine	0.57772 0.78143	0.64215	0.66259	0.74301	0.75852	0.80421	AVRG	0.70995			11.75275

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

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 Integrator : Falcon  
 Method file : \\SV5\C\chem\sv5.i\082310B.B\8270f.m  
 Last Edit : 24-Aug-2010 16:38 scotts

Compound	Coefficients							Curve	b	ml	m2	RSD or R^2
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6						
136 Butylbenzylphthalate	0.57636 0.67292	0.61494	0.61715	0.65104	0.67065	0.69536	AVRG		0.64263			6.46643
138 Benzo(a)Anthracene	1.02576 1.09142	1.03592	1.01657	1.06052	1.07060	1.10187	AVRG		1.05752			3.09964
139 Chrysene	1.10828 1.08629	1.10275	1.09598	1.08047	1.08291	1.10189	AVRG		1.09407			0.99562
140 3,3'-Dichlorobenzidine	0.34837 0.40880	0.35896	0.37783	0.38688	0.39907	0.41490	AVRG		0.38440			6.74998
141 bis(2-ethylhexyl)phthalate	0.80275 0.93353	0.83360	0.84293	0.91147	0.92714	0.96751	AVRG		0.88942			6.92857
142 Di-n-octylphthalate	1.19625 1.59168	1.26236	1.33214	1.49733	1.51669	1.60486	AVRG		1.42876			11.46770
144 Benzo(b)fluoranthene	0.82394 1.03354	0.85542	0.87764	1.00967	0.97702	1.06991	AVRG		0.94959			10.14842



TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
 End Cal Date : 23-AUG-2010 18:50  
 Quant Method : ISTD  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\SV5\C\chem\sv5.i\082310B.B\8270f.m  
 Last Edit : 24-Aug-2010 16:38 scotts

Compound	5.0000		10.0000		20.0000		50.0000		80.0000		120.0000		Curve	b	Coefficients ml	m2	MSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7										
	160.0000																
	Level 7																
\$ 7 2-Fluorophenol	1.40317	1.45900	1.48286	1.46235	1.47525	1.54271							AVRG	1.47923			3.15195
\$ 8 Phenol-d5	1.78725	1.79144	1.93724	1.91160	1.93287	1.97426							AVRG	1.89473			3.92785
\$ 9 2-Chlorophenol-d4	1.54693	1.59756	1.59947	1.57523	1.59928	1.63928							AVRG	1.59813			1.92838
\$ 10 1,2-Dichlorobenzene-d4	1.01330	1.02117	1.03138	0.95559	0.97692	0.98921							AVRG	0.99431			2.52409
\$ 11 Nitrobenzene-d5	0.34282	0.35237	0.35099	0.35695	0.36255	0.36828							AVRG	0.35699			2.50560
\$ 12 2-Fluorobiphenyl	1.26620	1.29361	1.24047	1.23528	1.25165	1.28600							AVRG	1.26594			1.89831
\$ 13 2,4,6-Tribromophenol	0.13339	0.14298	0.14607	0.16910	0.16641	0.17037							AVRG	0.15648			9.71493

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
 End Cal Date : 23-AUG-2010 18:50  
 Quant Method : ISTD  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\SV5\C\chem\sv5.i\082310B.B\8270f.m  
 Last Edit : 24-Aug-2010 16:38 scotts

Compound	5.0000		10.0000		20.0000		50.0000		80.0000		120.0000		Coefficient#	b	Curve	m2	%RSD or R^2	
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12						
160.0000																		
Level 7																		
\$ 14 Terphenyl-d14	0.76318	0.78543	0.75391	0.76156	0.78639	0.79768							0.77396		AVRG			2.07014
	0.76957																	



TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
 End Cal Date : 23-AUG-2010 18:50  
 Quant Method : ISTD  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\SV5\C\chem\sv5.i\082310B.B\8270f.m  
 Last Edit : 24-Aug-2010 16:38 scotts

Curve	Formula	Units
Averaged	Ant * Rsp/ml	Response
Linear	Ant = b + Rsp/ml	Response
Quad	Ant = b + ml*Rsp + m2*Rsp^2	Response

Signal Calibration Report

Method : \\Sv5\C\chem\sv5.i\082310B.B\8270f.m  
Last Edit: 24-Aug-2010 16:38 scotts  
Compound : 82 2,4-Dinitrophenol  
Mass: 184.00  
Istd Compound: \* 3 Acenaphthene-d10

Calibration Formulas

Calibration Mode: by Response

Curve Type: Averaged  
Origin: None  
Amt = Rsp/ml  
ml = 0.16393103600000  
RSD: 20.161

Initial Calibration Table

Lvl	RT	Amount	Response	RT	Istd Amount	Istd Response	Response Factor
1	7.811	5.00000	3066	7.718	40.000	207096	0.11843782593580
2	7.811	10.00000	7808	7.718	40.000	244234	0.12787736351204
3	7.811	20.00000	19504	7.718	40.000	263989	0.14776373257977
4	7.822	50.00000	58321	7.718	40.000	264752	0.17622831933281
5	7.822	80.00000	98584	7.718	40.000	277616	0.17755460780358
6	7.822	120.00000	196121	7.718	40.000	330719	0.19767133629053
7	7.822	160.00000	226471	7.718	40.000	280308	0.20198406752572

Lvl	Sublist	Calibration File
1	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823A
2	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823B
3	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823C
4	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823D
5	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823E
6	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823F
7	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823G

Continuing Calibration Table

Ind	RT	Amount	Response	RT	Istd Amount	Istd Response	Response Factor
-----	----	--------	----------	----	-------------	---------------	-----------------

1	7.822	50.000	66513	7.718	40.000	295770	0.17990465564459
2	7.822	50.000	58901	7.718	40.000	274779	0.17148617616339
3	7.822	50.000	58321	7.718	40.000	264752	0.17622831933283
4	7.816	50.000	90734	7.713	40.000	414154	0.17526620532459
5	7.858	50.000	49564	7.754	40.000	260934	0.15195873285965
6	7.858	50.000	63475	7.754	40.000	318667	0.15935129774969
7	7.889	50.000	58884	7.785	40.000	318462	0.14792094504211
8	7.889	50.000	52456	7.796	40.000	304639	0.13775255302177
9	7.889	50.000	44855	7.796	40.000	283970	0.12636546114026
10	7.889	50.000	40711	7.785	40.000	264293	0.12322990014870
Avg	7.855	50.000	58441	7.754	40.000	26429	0.15494642464276

Ind	Sublist	Calibration File
1	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823
2	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823H
3	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823D
4	1_8270STD	\\SV5\C\chem\sv5.i\082310A.B\HSL0823A
5	1_8270STD	\\SV5\C\chem\sv5.i\082010.B\HSL0820
6	1_8270STD	\\sv5\c\chem\sv5.i\082010.B\QC001
7	1_8270STD	\\sv5\c\chem\sv5.i\081810A.B\HSL0818A
8	1_8270STD	\\sv5\c\chem\sv5.i\081810.B\HSL0818
9	1_8270STD	\\SV5\C\chem\sv5.i\081710.B\HSL0817D
10	1_8270STD	\\SV5\C\chem\sv5.i\081710.B\HSL0817H

Report Date: 24-Aug-2010 13:22

Calibration History

Method : \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
Start Cal Date: 17-AUG-2010 17:32  
End Cal Date : 23-AUG-2010 18:50  
Last Cal Level: 1  
Last Cal Type : Initial Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
17-AUG-2010 21:45	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817A.D
23-AUG-2010 16:40	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823A.D
Cal Level: 2 , Cal Amount: 10.00000		
17-AUG-2010 22:11	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817B.D
23-AUG-2010 17:06	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823B.D
Cal Level: 3 , Cal Amount: 20.00000		
17-AUG-2010 22:37	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817C.D
23-AUG-2010 17:32	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823C.D
Cal Level: 4 , Cal Amount: 50.00000		
17-AUG-2010 21:19	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817D.D
23-AUG-2010 16:14	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823D.D
Cal Level: 5 , Cal Amount: 80.00000		
17-AUG-2010 23:03	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817E.D
23-AUG-2010 17:58	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823E.D
Cal Level: 6 , Cal Amount: 120.00000		
17-AUG-2010 23:29	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817F.D
23-AUG-2010 18:24	1_8270STD	

\\sv5\c\chem\sv5.i\082310B.B\HSL0823F.D

Cal Level: 7 , Cal Amount: 160.00000

17-AUG-2010 23:55 | 2AP9STD  
\\SV5\C\chem\sv5.i\081710.B\AP90817G.D  
23-AUG-2010 18:50 | 1 8270STD  
\\sv5\c\chem\sv5.i\082310B.B\HSL0823G.D

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

23-AUG-2010 16:14 | 1 8270STD  
\\sv5\c\chem\sv5.i\082310B.B\HSL0823D.D  
23-AUG-2010 15:30 | 1 8270STD  
\\SV5\C\chem\sv5.i\082310B.B\QC001.D  
23-AUG-2010 14:51 | 1 8270STD  
\\SV5\C\chem\sv5.i\082310A.B\HSL0823A.D  
20-AUG-2010 20:47 | 2AP9STD  
\\SV5\C\chem\sv5.i\082010.B\AP90820.D  
20-AUG-2010 17:37 | 1 8270STD  
\\SV5\C\chem\sv5.i\082010.B\HSL0820.D  
20-AUG-2010 16:53 | 1 8270STD  
\\sv5\c\chem\sv5.i\082010.B\QC001.D  
18-AUG-2010 21:59 | 1 8270STD  
\\sv5\c\chem\sv5.i\081810A.B\HSL0818A.D  
18-AUG-2010 11:56 | 1 8270STD  
\\sv5\c\chem\sv5.i\081810.B\HSL0818.D  
17-AUG-2010 17:32 | 1 8270STD  
\\SV5\C\chem\sv5.i\081710.B\HSL0817D.D  
17-AUG-2010 21:19 | 2AP9STD  
\\SV5\C\chem\sv5.i\081710.B\AP90817D.D  
17-AUG-2010 20:34 | 1 8270STD  
\\SV5\C\chem\sv5.i\081710.B\HSL0817H.D

TAILING FACTOR/DEGRADATION SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	1.0132185	5.000	PASS
Benzidine	0.4745010	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	291132	17.4	20.5	PASS

Sample //SV5/C/chem/sv5.i/082310B.B/DFT0823.D/DFT0823.D

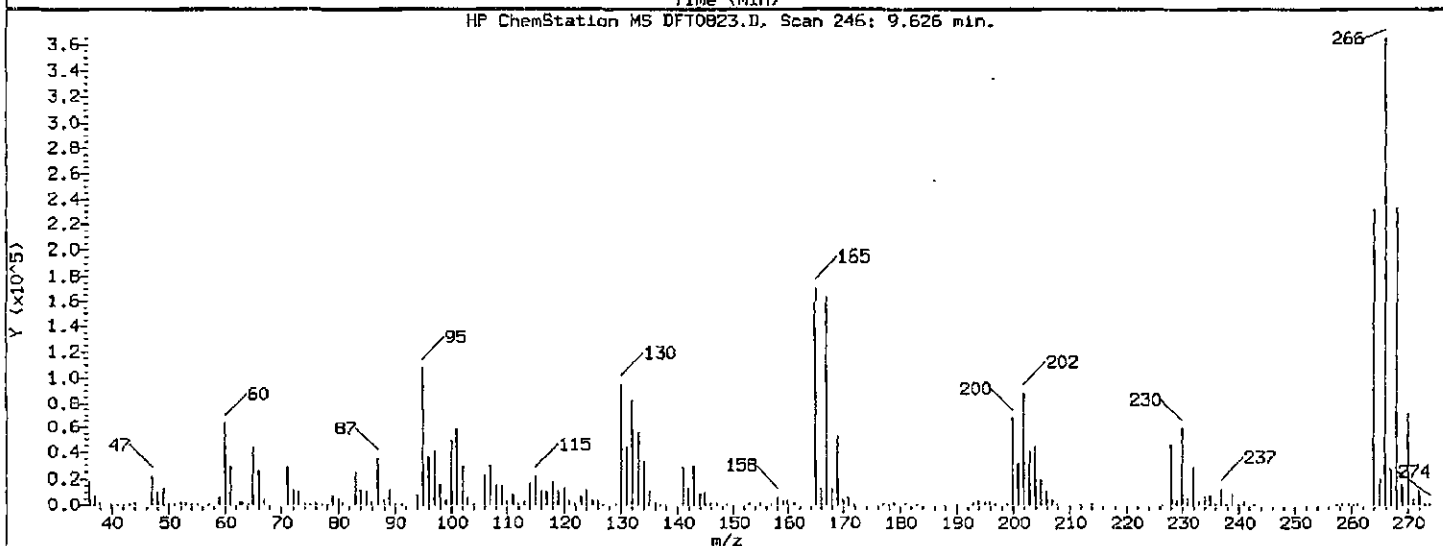
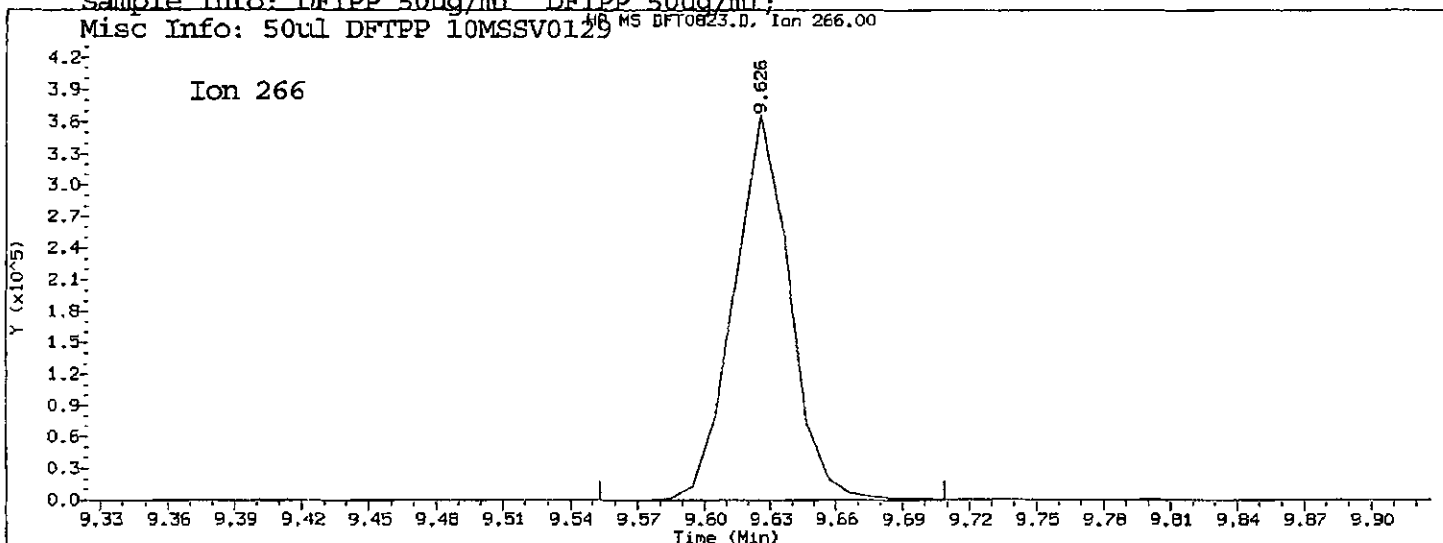
\*\*\*\*\*  
 \*\*\* PASSED \*\*\*  
 \*\*\*\*\*

*5/18/24/10*

TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 08/23/2010 16:11

Datafile Analyzed: //SV5/C/chem/sv5.i/082310B.B/DFT0823.D/DFT0823.D  
 Method Used: \\SV5\C\chem\sv5.i\082310B.B\DFTPP.M\resol.m Inst: sv5  
 Injection Date: 23-AUG-2010 15:53 Operator: KT  
 Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
 Misc Info: 50ul DFTPP 10MSSV0129 MS DFT0823.D, Ion 266.00



Pentachlorophenol

=====  
 Exp. RT = 9.771  
 Found RT = 9.626

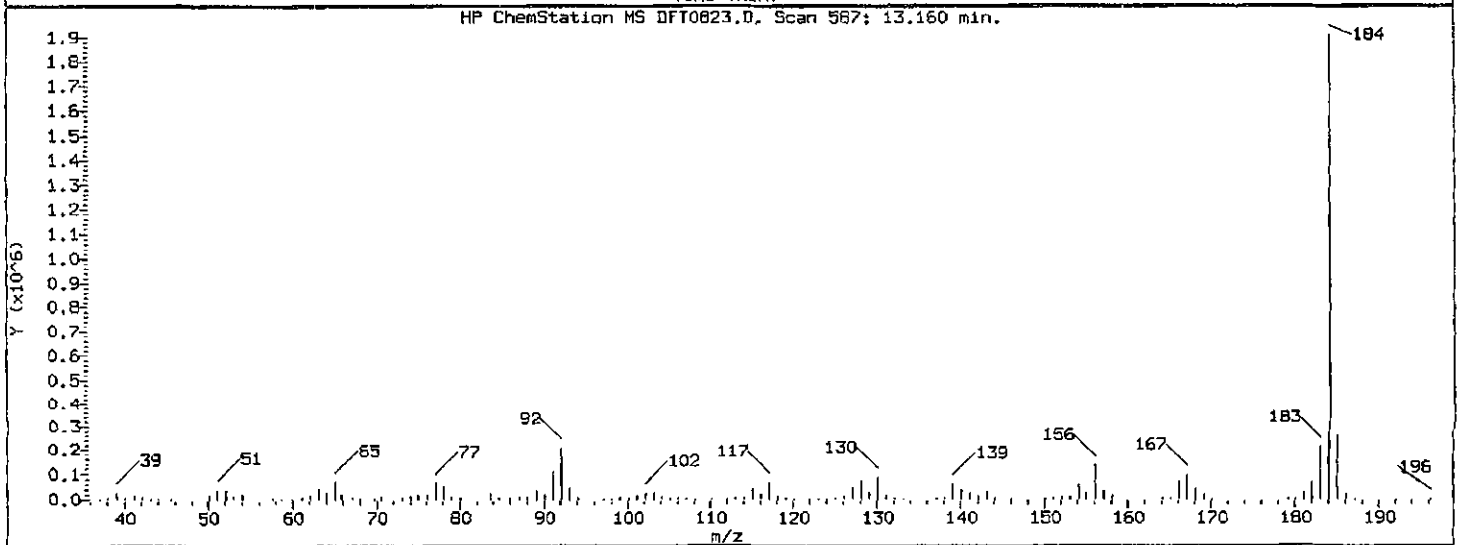
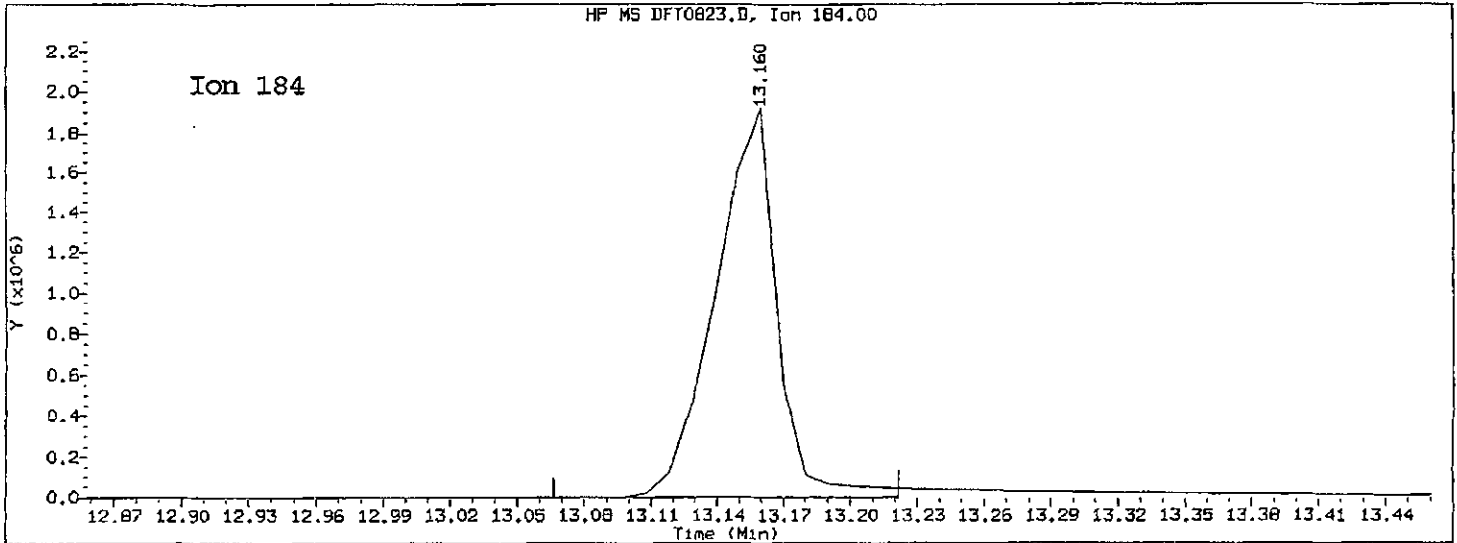
Time1 = 9.598356 Time2 = 9.625783 Time3 = 9.653574  
 Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Pentachlorophenol OK

Tail Factor = 1.013 Maximum Allowed = 5.0

Report Date: 08/23/2010 16:11

Datafile Analyzed: //SV5/C/chem/sv5.i/082310B.B/DFT0823.D/DFT0823.D  
Method Used: \\SV5\C\chem\sv5.i\082310B.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 23-AUG-2010 15:53 Operator: KT  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



Benzidine

=====  
Exp. RT = 13.315  
Found RT = 13.160

Time1 = 13.12013 Time2 = 13.15958 Time3 = 13.1783  
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

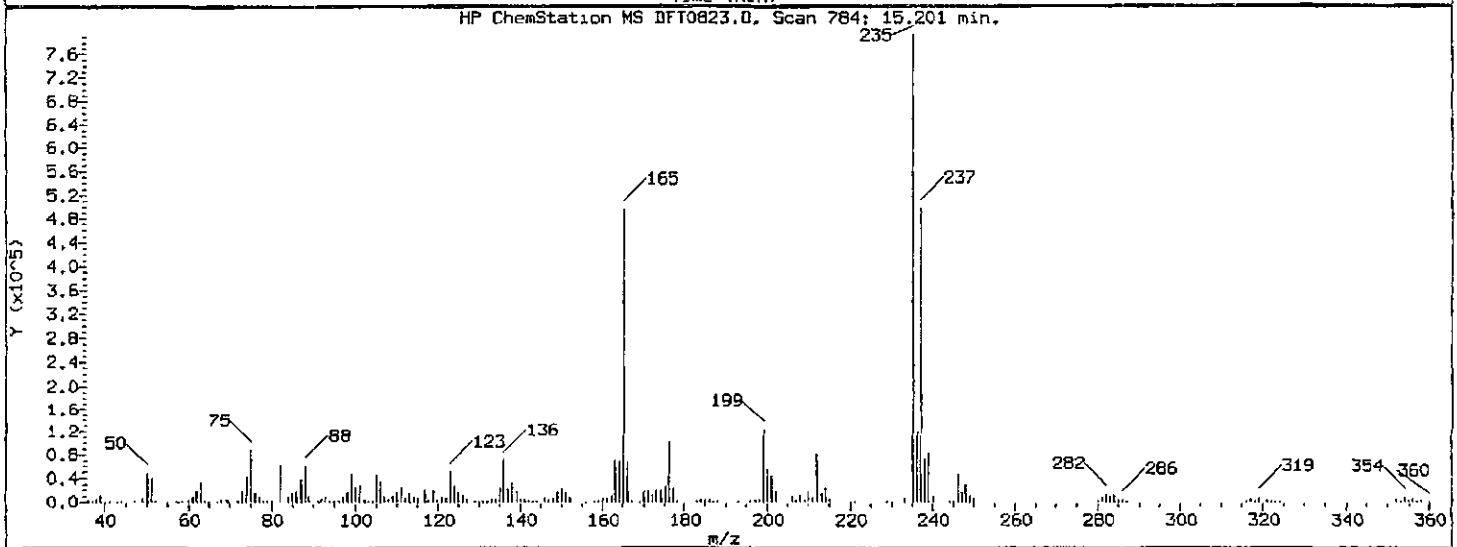
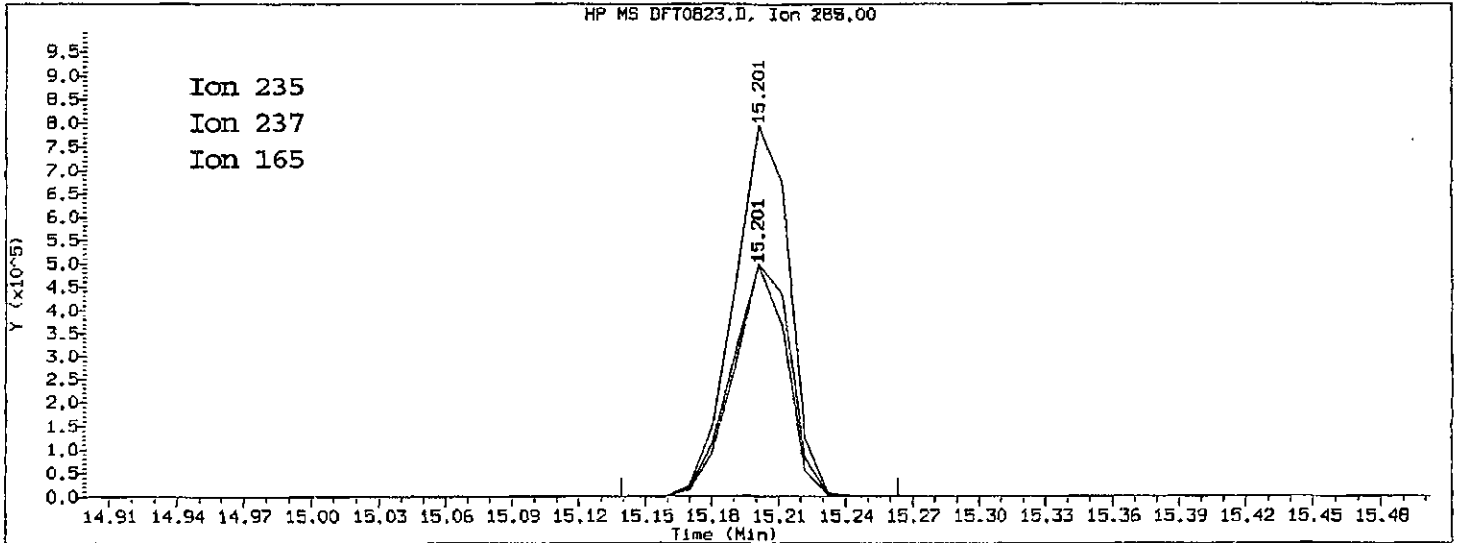
Tailing factor for Benzidine OK

Tail Factor = 0.475 Maximum Allowed = 3.0



Report Date: 08/23/2010 16:11

Datafile Analyzed: //SV5/C/chem/sv5.i/082310B.B/DFT0823.D/DFT0823.D  
Method Used: \\SV5\C\chem\sv5.i\082310B.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 23-AUG-2010 15:53 Operator: KT  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



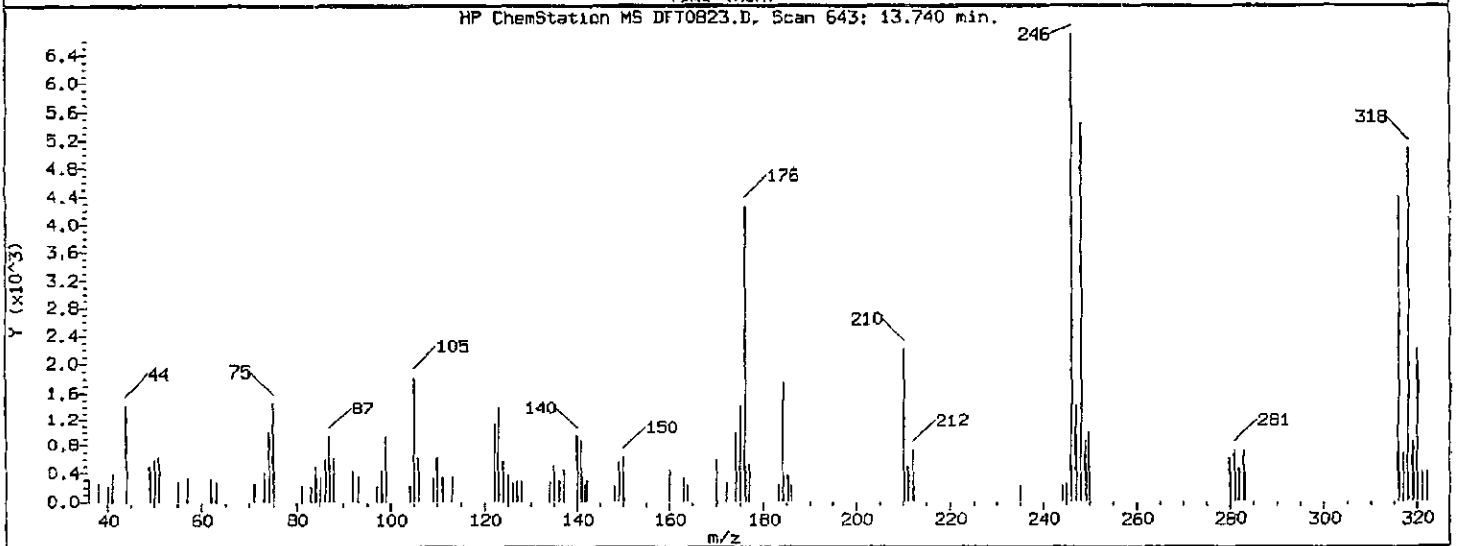
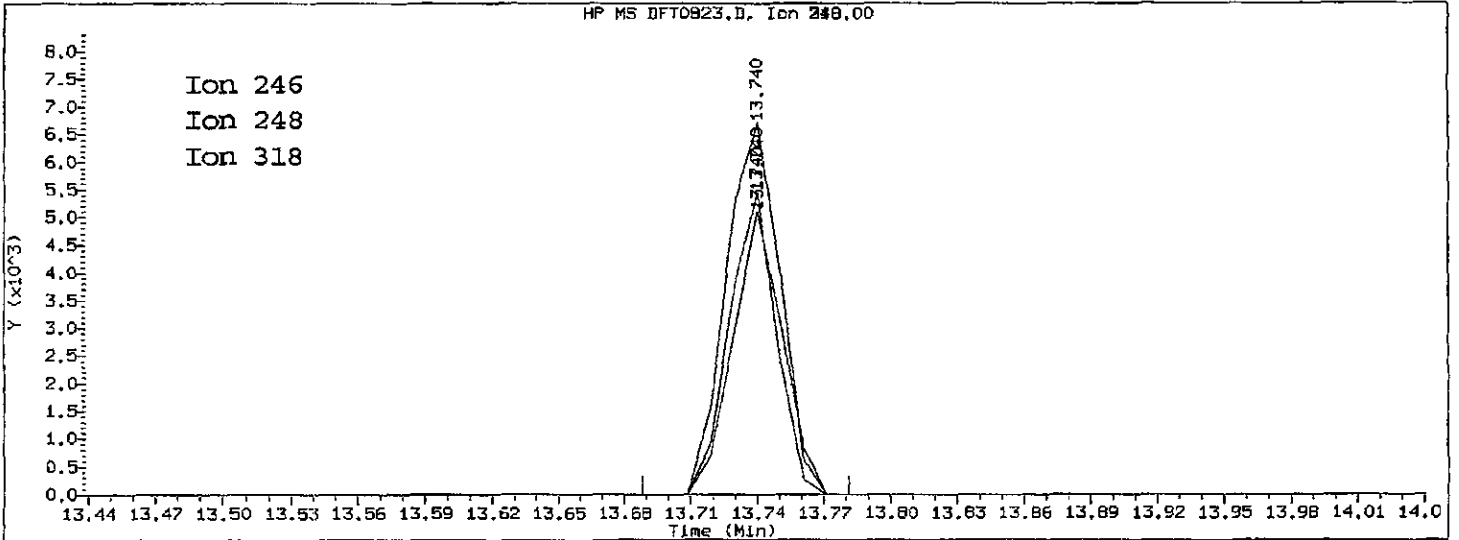
4,4'-DDT

=====  
Exp. RT = 15.357  
Found RT = 15.201

Mass	Area	Ratio
235	1385762	100.00
237	878311	63.38
165	847985	61.19

Report Date: 08/23/2010 16:11

Datafile Analyzed: //SV5/C/chem/sv5.i/082310B.B/DFT0823.D/DFT0823.D  
Method Used: \\SV5\C\chem\sv5.i\082310B.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 23-AUG-2010 15:53 Operator: KT  
Sample Info: DFIPP 50ug/ml DFIPP 50ug/ml;  
Misc Info: 50ul DFIPP 10MSSV0129



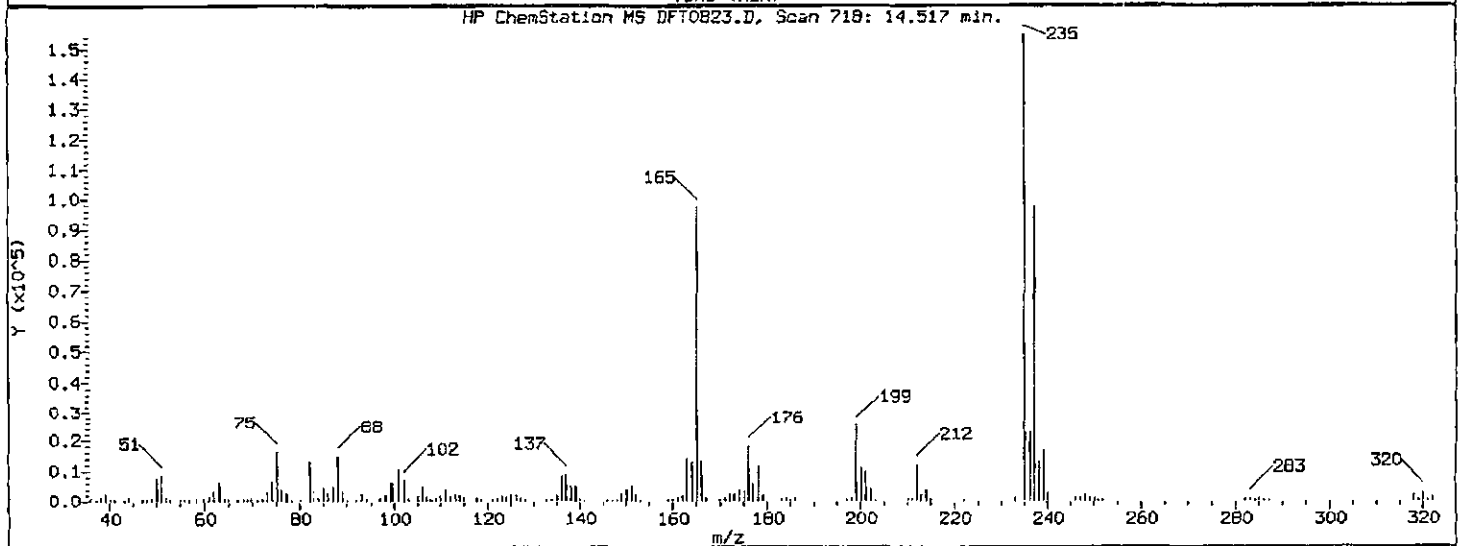
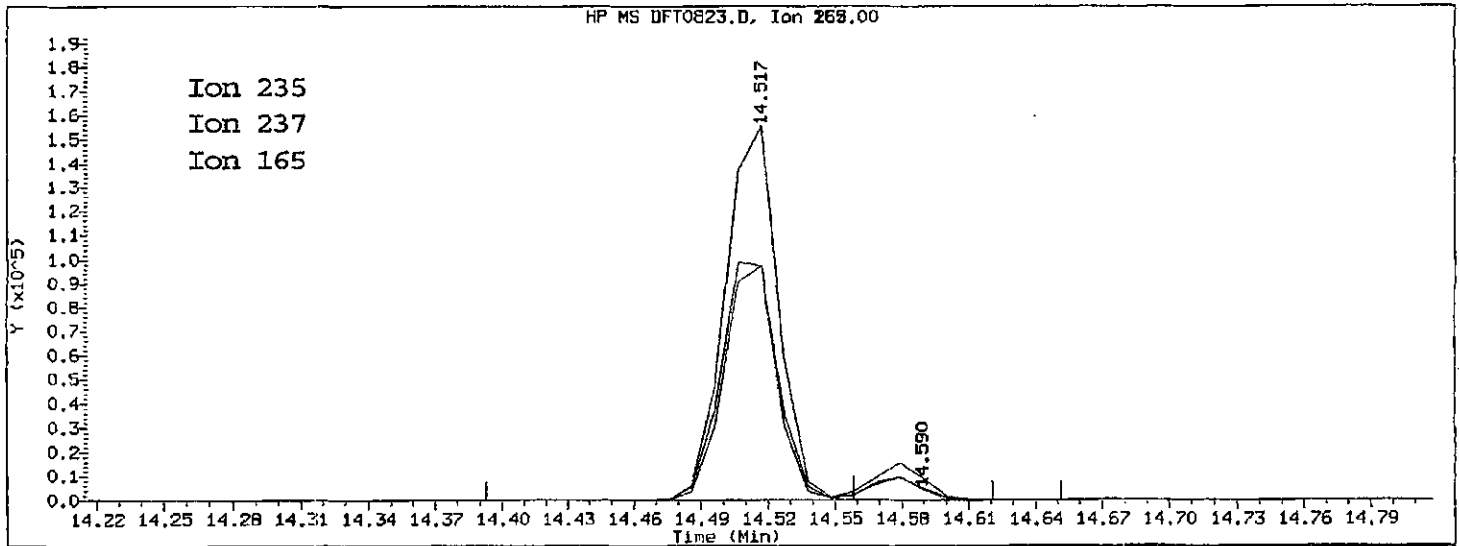
4,4'-DDE

=====  
Exp. RT = 13.875  
Found RT = 13.740

Mass	Area	Ratio
246	11269	100.00
248	7978	70.80
318	7894	70.06

Report Date: 08/23/2010 16:11

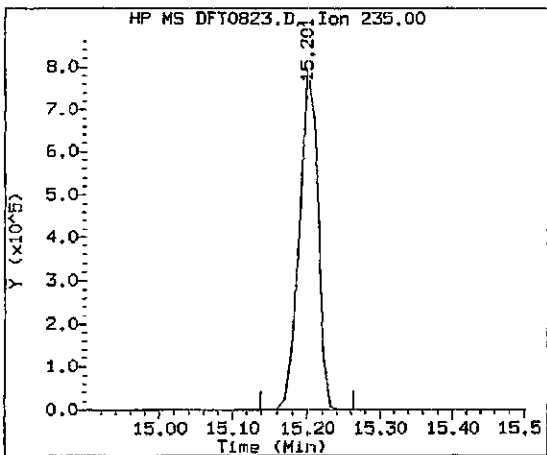
Datafile Analyzed: //SV5/C/chem/sv5.i/082310B.B/DFT0823.D/DFT0823.D  
Method Used: \\SV5\C\chem\sv5.i\082310B.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 23-AUG-2010 15:53 Operator: KT  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



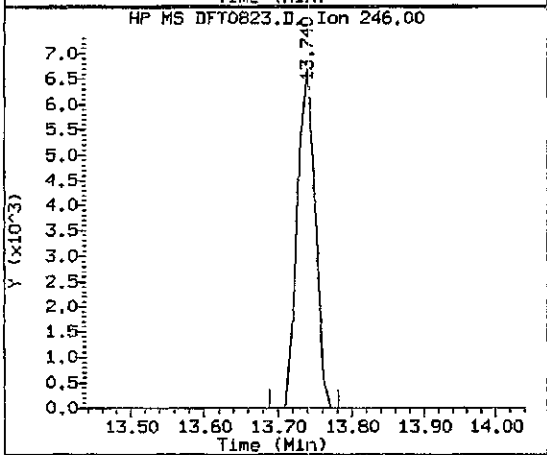
4,4'-DDD

=====  
Exp. RT = 14.652  
Found RT = 14.517

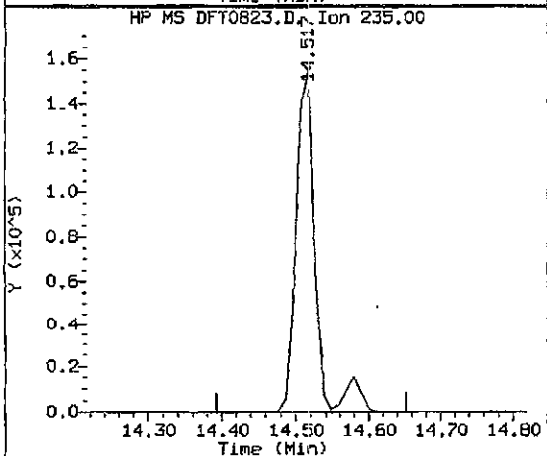
Mass	Area	Ratio
235	279863	100.00
237	14389	5.14
165	14503	5.18



Compound: 4,4'-DDT  
 Quant Mass: 235  
 RT: 15.201  
 Area: 1385762



Compound: 4,4'-DDE  
 Quant Mass: 246  
 RT: 13.740  
 Area: 11269



Compound: 4,4'-DDD  
 Quant Mass: 235  
 RT: 14.517  
 Area: 279863

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4'-DDD + DDE	291132	17.4	20.5	PASS

TestAmerica WestSacramento

Data file : \\sv5\c\chem\sv5.i\082310B.B\DFT0823.D  
 Lab Smp Id: DFTPP 50ug/ml  
 Inj Date : 23-AUG-2010 15:53  
 Operator : KT Inst ID: sv5.i  
 Smp Info : DFTPP 50ug/ml;  
 Misc Info : 50ul DFTPP 10MSSV0129  
 Comment :  
 Method : \\SV5\C\chem\sv5.i\082310B.B\DFTPP.m  
 Meth Date : 17-Aug-2010 14:10 scotts Quant Type: ISTD  
 Cal Date : Cal File:  
 Als bottle: 91 QC Sample: DFTPP  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 4.14 Sample Matrix: None  
 Processing Host: SV5

CONCENTRATIONS									
RT	EXP RT	REL RT	MASS	RESPONSE	CON-COL		TARGET RANGE	RATIO	
					( ug/L)	( ug/L)			
-----									
1 dftpp									
CAS #: 5074-71-5									
11.076	11.201	( 0.000)	198	565824			0.00- 100.00	97.57	
11.076	11.201	( 0.000)	51	258112			30.00- 80.00	45.62	
11.076	11.201	( 0.000)	68	3325			0.00- 2.00	1.55	
11.076	11.201	( 0.000)	69	214592			0.00- 0.00	37.93	
11.076	11.201	( 0.000)	70	1011			0.00- 2.00	0.47	
11.076	11.201	( 0.000)	127	296832			25.00- 75.00	52.46	
11.076	11.201	( 0.000)	197	0	0.0	0.0	0.00- 1.00	0.00	
11.076	11.201	( 0.000)	199	35776			5.00- 9.00	6.32	
11.076	11.201	( 0.000)	275	130800			10.00- 30.00	23.12	
11.076	11.201	( 0.000)	365	18712			0.75- 0.00	3.31	
11.076	11.201	( 0.000)	441	86976			0.01- 99.99	79.39	
11.076	11.201	( 0.000)	442	579904			40.00- 110.00	102.49	
11.076	11.201	( 0.000)	443	109560			15.00- 24.00	18.89	
-----									

Data File: \\sv5\c\chem\sv5.i\082310B.B\DFT0823.D

Page 2

Date : 23-AUG-2010 15:53

Client ID:

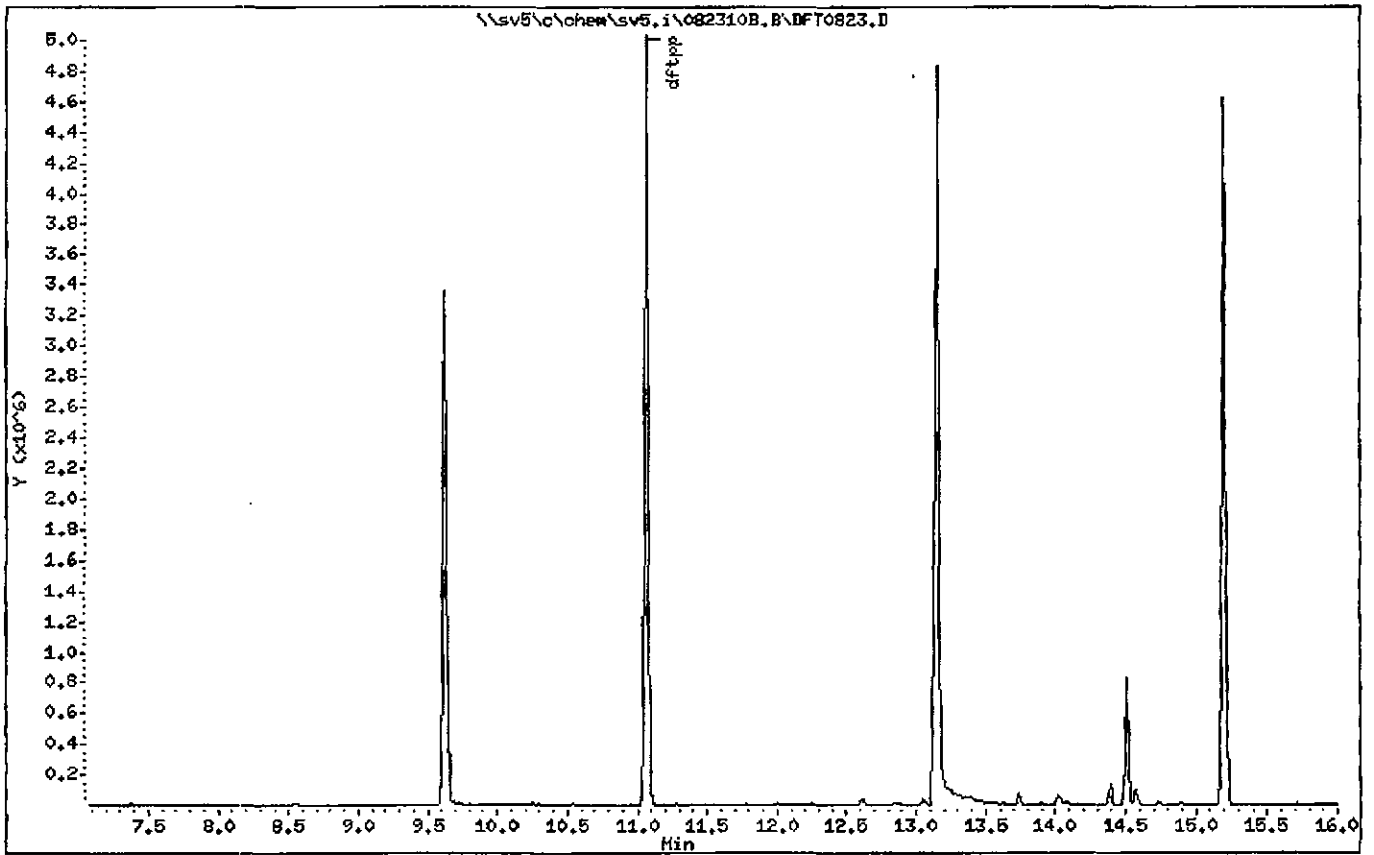
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00



Date : 23-AUG-2010 15:53

Client ID:

Instrument: sv5.i

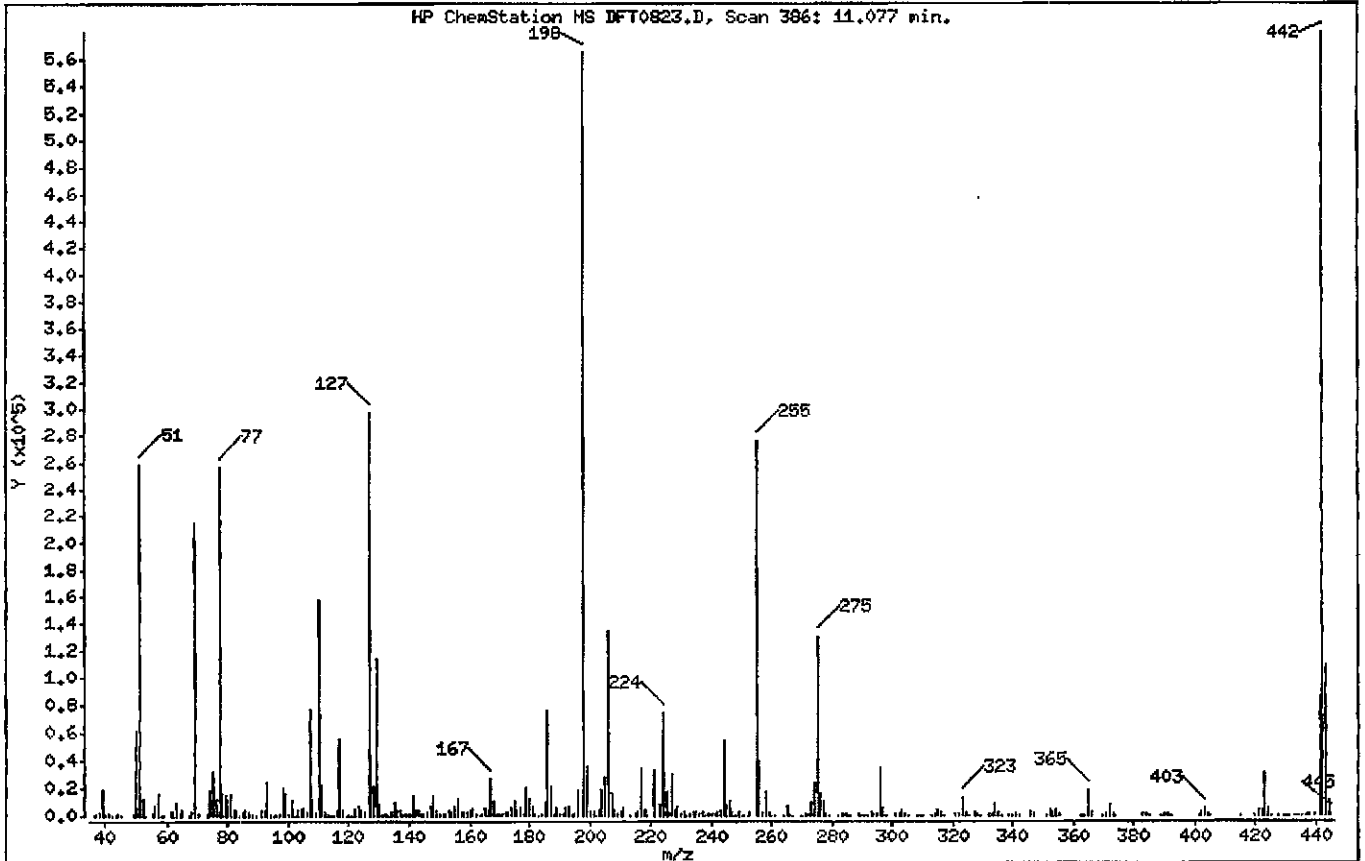
Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	45.62
68	Less than 2.00% of mass 69	0.59 ( 1.55)
69	Mass 69 relative abundance	37.93
70	Less than 2.00% of mass 69	0.18 ( 0.47)
127	25.00 - 75.00% of mass 198	52.46
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.32
275	10.00 - 30.00% of mass 198	23.12
365	Greater than 0.75% of mass 198	3.31
441	Present, but less than mass 443	15.37
442	40.00 - 110.00% of mass 198	102.49
443	15.00 - 24.00% of mass 442	19.36 ( 18.89)

Date : 23-AUG-2010 15:53

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml:

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT0823.D  
 Spectrum: HP ChemStation MS DFT0823.D, Scan 386; 11.077 min.  
 Location of Maximum: 442.00  
 Number of points: 327

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	395	128.10	21664	211.10	5563	310.10	512
37.00	698	129.00	114328	213.10	446	313.10	400
38.00	2559	130.00	8455	215.10	1555	314.00	1633
39.10	18040	131.00	1380	216.00	2763	315.00	4369
40.00	1021	132.00	754	217.00	34232	316.00	2372
41.10	887	132.70	505	218.00	3889	317.10	473
42.00	206	134.00	2664	219.00	373	321.00	1388
43.10	325	135.00	9182	221.10	33248	322.10	1081
44.00	911	136.00	3578	223.00	8572	323.10	13011
45.00	273	137.00	4603	224.10	73136	324.10	2495
49.10	1869	137.70	729	225.10	16712	325.10	203
50.10	60816	139.00	828	226.10	2009	325.80	428
51.10	258112	140.00	1509	227.00	30752	327.00	2183
52.10	12588	141.00	14299	228.10	4165	328.00	1285
53.10	584	142.00	4637	229.00	6225	329.20	256
55.00	1386	143.00	3397	230.10	1056	332.00	970
56.00	6366	144.00	825	231.00	2886	333.00	1150
57.00	16244	145.00	1124	232.00	383	334.10	8526
58.10	651	146.00	2627	233.10	710	335.00	2373
59.00	277	147.00	6455	234.00	2007	336.00	272
61.00	2616	148.00	14957	235.00	2024	338.90	251
62.00	3003	149.00	3841	236.10	1484	340.00	273
63.10	9068	150.10	881	237.00	2467	341.10	1590
64.00	1229	151.10	1870	238.00	378	342.10	404
65.10	4379	152.10	937	239.00	1270	346.00	2556
67.20	292	153.10	4462	240.00	1085	347.00	689
68.00	3325	154.00	2940	241.10	1674	351.00	383
69.00	214592	155.10	7249	242.00	3075	352.10	4088
70.00	1011	156.10	11592	243.10	3748	353.10	2915
73.10	1476	157.10	2518	244.10	54480	354.10	4316
74.00	18800	157.90	2442	245.10	8272	355.10	838
75.00	31776	159.10	2272	246.10	10017	362.30	228
76.10	11936	160.00	4295	247.00	2062	362.90	209
77.10	256832	161.00	5785	247.90	469	363.80	364
78.10	15473	162.10	1648	249.00	2296	365.00	18712



Date : 23-AUG-2010 15:53

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml:

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT0823.D  
Spectrum: HP ChemStation MS DFT0823.D, Scan 386: 11.077 min,  
Location of Maximum: 442.00  
Number of points: 327

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	14470	163.00	386	250.20	568	366.00	2172
80.00	11570	164.00	1015	251.00	625	369.90	347
81.00	16007	165.00	4997	252.00	554	371.10	1281
82.00	4047	166.10	4120	253.00	2062	372.10	7448
83.00	4205	167.10	27120	255.00	276032	373.00	1781
84.00	610	168.00	11313	256.00	39528	374.10	310
85.00	2698	169.00	1815	257.00	3306	383.00	1607
86.00	4371	170.10	865	258.00	16952	384.00	765
87.00	2386	171.00	953	259.00	2790	385.00	354
88.10	778	172.00	2515	260.10	601	388.90	222
89.00	313	173.00	2892	261.00	627	390.10	1213
91.00	3884	174.10	4879	264.10	601	391.00	784
92.00	3476	175.10	10661	265.00	6909	392.10	289
93.00	24256	176.00	3906	266.10	1092	401.00	377
94.10	1453	177.00	4868	267.00	248	402.00	3249
95.00	537	178.10	1948	270.10	434	403.00	5155
96.10	1019	179.00	20160	271.00	844	404.00	1841
96.90	708	180.10	12540	272.10	1057	405.00	389
98.00	19464	181.10	6908	273.10	9854	414.90	372
99.00	15811	182.00	1232	274.00	23392	419.70	249
100.00	1381	183.00	387	275.10	130800	421.00	4351
101.00	10382	184.00	1656	276.00	16282	422.00	3751
102.20	356	185.10	9843	277.00	11281	423.00	30960
103.00	3350	186.10	75592	278.00	1923	424.00	5463
104.00	5846	187.10	20696	279.00	405	425.00	591
105.00	5729	188.10	1965	281.90	260	427.80	262
106.00	2041	189.00	4826	283.10	1466	429.30	355
107.00	77104	190.00	853	284.00	854	430.00	251
108.00	11537	191.00	1665	285.00	1904	430.50	434
109.00	2094	192.00	5956	286.10	352	431.30	227
110.00	156928	193.10	6678	289.00	741	432.70	293
111.00	22480	194.00	1731	290.00	532	433.30	348
112.00	2449	195.10	1055	291.10	277	434.10	436
113.00	904	196.00	18736	291.90	568	435.10	453
114.10	251	198.00	565824	293.10	2231	435.50	550

Date : 23-AUG-2010 15:53

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT0823.D  
 Spectrum: HP ChemStation MS DFT0823.D, Scan 386: 11.077 min.  
 Location of Maximum: 442.00  
 Number of points: 327

m/z	Y	m/z	Y	m/z	Y	m/z	Y
115.00	577	199.00	35776	294.00	850	436.20	547
116.00	4000	200.00	2901	295.00	964	436.60	510
117.00	55864	201.50	3153	296.00	35192	437.20	690
118.00	3531	202.20	632	297.00	4712	437.80	981
119.10	513	203.10	3715	298.00	391	439.30	835
120.00	774	204.10	19024	301.10	669	439.70	889
121.00	386	205.10	28656	302.00	882	441.00	86976
122.00	5122	206.10	134336	303.10	4553	442.00	579904
123.00	7261	207.10	16145	304.10	1548	443.00	109560
124.00	4149	208.00	4097	305.10	274	444.00	10242
125.00	3296	209.00	1191	308.00	572	445.00	684
127.00	296832	210.10	2158	309.10	315		

TestAmerica WestSacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823A.D  
 Lab Smp Id: HSL 005 ug/ml CS-1 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 16:40  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 005 ug/ml CS-1;1;1;1;1;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0307;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 16:08 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:45 Cal File: AP90817A.D  
 Als bottle: 92 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
								CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152			4.184	4.184	(1.000)	91148	40.0000	
* 2 Naphthalene-d8	136			5.604	5.604	(1.000)	397203	40.0000	
* 3 Acenaphthene-d10	164			7.718	7.718	(1.000)	207096	40.0000	
* 4 Phenanthrene-d10	188			9.697	9.697	(1.000)	320757	40.0000	
* 5 Chrysene-d12	240			14.122	14.122	(1.000)	307293	40.0000	
* 6 Perylene-d12	264			16.516	16.516	(1.000)	324529	40.0000	
\$ 7 2-Fluorophenol	112			2.961	2.961	(0.708)	15987	5.00000	4.743
\$ 8 Phenol-d5	99			3.821	3.821	(0.913)	20363	5.00000	4.716
\$ 9 2-Chlorophenol-d4	132			3.977	3.977	(0.950)	17625	5.00000	4.840
\$ 10 1,2-Dichlorobenzene-d4	152			4.391	4.391	(1.050)	11545	5.00000	5.095
\$ 11 Nitrobenzene-d5	82			4.816	4.816	(0.859)	17021	5.00000	4.802 (M)
\$ 12 2-Fluorobiphenyl	172			6.909	6.909	(0.895)	32778	5.00000	5.001 (M)
\$ 13 2,4,6-Tribromophenol	330			8.744	8.744	(1.133)	3453	5.00000	4.262
\$ 14 Terphenyl-d14	244			12.340	12.340	(0.874)	29315	5.00000	4.930
15 N-Nitrosodimethylamine	74			1.935	1.935	(0.463)	11039	5.00000	4.758
16 Pyridine	79			1.966	1.966	(0.470)	19854	5.00000	5.165
23 Aniline	93			3.883	3.883	(0.928)	25614	5.00000	4.738
24 Phenol	94			3.831	3.831	(0.916)	21490	5.00000	4.729
26 Bis(2-chloroethyl) ether	93			3.945	3.945	(0.943)	16784	5.00000	4.829
27 2-Chlorophenol	128			3.997	3.997	(0.955)	17412	5.00000	4.836
28 1,3-Dichlorobenzene	146			4.153	4.153	(0.993)	19814	5.00000	4.988
29 1,4-Dichlorobenzene	146			4.205	4.205	(1.005)	18980	5.00000	4.716
30 Benzyl Alcohol	108			4.339	4.339	(1.037)	11898	5.00000	4.817
31 1,2-Dichlorobenzene	146			4.401	4.401	(1.052)	19252	5.00000	5.066
32 2-Methylphenol	108			4.474	4.474	(1.069)	15756	5.00000	4.644
33 2,2'-oxybis(1-Chloropropane)	45			4.526	4.526	(1.082)	32447	5.00000	4.900
34 4-Methylphenol	108			4.629	4.629	(1.106)	16316	5.00000	4.517
36 Hexachloroethane	117			4.733	4.733	(1.131)	7068	5.00000	4.986
37 N-Nitrosodipropylamine	70			4.671	4.671	(1.116)	12484	5.00000	4.911
42 Nitrobenzene	77			4.837	4.837	(0.863)	17983	5.00000	5.090
44 Isophorone	82			5.096	5.096	(0.909)	32841	5.00000	4.897
45 2-Nitrophenol	139			5.199	5.199	(0.928)	8465	5.00000	4.455
46 2,4-Dimethylphenol	107			5.230	5.230	(0.933)	17379	5.00000	4.880

*smes/esth*

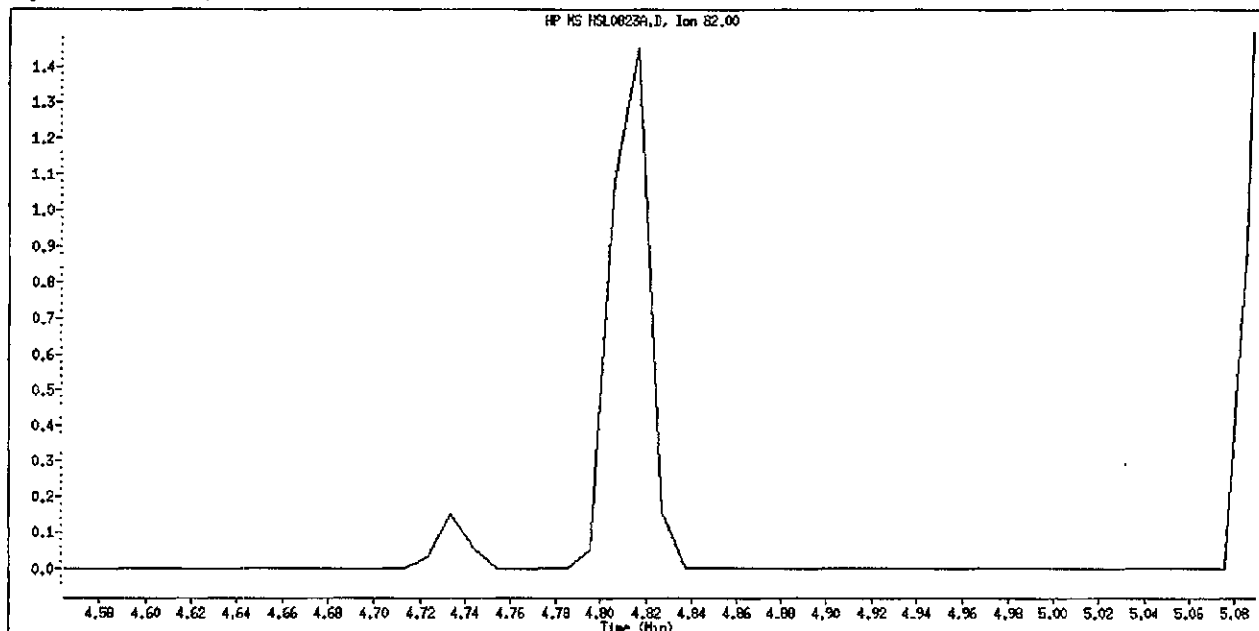
Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)
47 Bis(2-chloroethoxy) methane	93	5.355	5.355	(0.956)	18999	5.00000	4.768
49 2,4-Dichlorophenol	162	5.448	5.448	(0.972)	12803	5.00000	4.932
50 Benzoic Acid	122	5.282	5.282	(0.943)	8004	5.00000	6.346
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	14409	5.00000	5.127
52 Naphthalene	128	5.624	5.624	(1.004)	55807	5.00000	5.048 (M)
54 4-Chloroaniline	127	5.718	5.718	(1.020)	21627	5.00000	5.503 (M)
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	6814	5.00000	5.116
60 4-Chloro-3-Methylphenol	107	6.288	6.288	(1.122)	14034	5.00000	4.652
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	32784	5.00000	4.858
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	7599	5.00000	4.789
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	6648	5.00000	4.258 (M)
70 2,4,5-Trichlorophenol	196	6.847	6.847	(0.887)	7992	5.00000	4.698 (M)
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	29428	5.00000	5.095
73 2-Nitroaniline	65	7.179	7.179	(0.930)	9276	5.00000	4.700
76 Dimethylphthalate	163	7.459	7.459	(0.966)	32438	5.00000	4.851
77 Acenaphthylene	152	7.521	7.521	(0.974)	47334	5.00000	4.669
79 2,6-Dinitrotoluene	165	7.531	7.531	(0.976)	6502	5.00000	4.347 (M)
80 3-Nitroaniline	138	7.687	7.687	(0.996)	9193	5.00000	4.636
81 Acenaphthene	153	7.749	7.749	(1.004)	31423	5.00000	4.868
82 2,4-Dinitrophenol	184	7.811	7.811	(1.012)	3066	5.00000	6.058 (M)
83 Dibenzofuran	168	7.946	7.946	(1.030)	42649	5.00000	5.006
84 4-Nitrophenol	109	7.894	7.894	(1.023)	3822	5.00000	4.320
86 2,4-Dinitrotoluene	165	8.008	8.008	(1.038)	8655	5.00000	5.933
91 Fluorene	166	8.391	8.391	(1.087)	33483	5.00000	4.794
92 Diethylphthalate	149	8.350	8.350	(1.082)	36351	5.00000	5.186
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	14593	5.00000	5.089
94 4-Nitroaniline	138	8.464	8.464	(1.097)	8698	5.00000	4.440
97 4,6-Dinitro-2-methylphenol	198	8.526	8.526	(0.879)	3873	5.00000	6.074
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	29759	5.86000	5.926
100 Azobenzene	77	8.609	8.609	(0.888)	34137	5.00000	4.818
101 4-Bromophenyl-phenylether	248	9.065	9.065	(0.935)	7284	5.00000	4.733
108 Hexachlorobenzene	284	9.262	9.262	(0.955)	8191	5.00000	4.924
110 Pentachlorophenol	266	9.521	9.521	(0.982)	4282	5.00000	4.156
114 Phenanthrene	178	9.728	9.728	(1.003)	48882	5.00000	4.868
115 Anthracene	178	9.790	9.790	(1.010)	48108	5.00000	4.761
118 Carbazole	167	10.060	10.060	(1.037)	44562	5.00000	4.719
120 Di-n-Butylphthalate	149	10.754	10.754	(1.109)	50710	5.00000	4.435
126 Fluoranthene	202	11.624	11.624	(1.199)	41793	5.00000	4.605
127 Benzidine	184	11.884	11.884	(0.841)	26818	5.00000	5.356
128 Pyrene	202	11.987	11.987	(0.849)	47347	5.00000	4.963
134 3,3'-dimethylbenzidine	212	13.189	13.189	(0.934)	22191	5.00000	5.992
136 Butylbenzylphthalate	149	13.303	13.303	(0.942)	22139	5.00000	4.484
138 Benzo(a)Anthracene	228	14.091	14.091	(0.998)	39402	5.00000	4.850
139 Chrysene	228	14.163	14.163	(1.003)	42571	5.00000	5.065
140 3,3'-Dichlorobenzidine	252	14.132	14.132	(1.001)	13228	5.00000	4.479
141 bis(2-ethylhexyl) Phthalate	149	14.433	14.433	(1.022)	30835	5.00000	4.518
142 Di-n-octylphthalate	149	15.490	15.490	(1.097)	45950	5.00000	5.880
144 Benzo(b)fluoranthene	252	15.925	15.925	(0.964)	33424	5.00000	4.338
145 Benzo(k)fluoranthene	252	15.967	15.967	(0.967)	44835	5.00000	4.963
147 Benzo(e)pyrene	252	16.350	16.350	(0.990)	36134	5.00000	4.731
148 Benzo(a)pyrene	252	16.433	16.433	(0.995)	39312	5.00000	4.663
151 Indeno(1,2,3-cd)pyrene	276	18.257	18.257	(1.105)	32667	5.00000	4.558 (M)
152 Dibenzo(a,h)anthracene	278	18.319	18.319	(1.109)	34423	5.00000	4.501
153 Benzo(g,h,i)perylene	276	18.734	18.734	(1.134)	39032	5.00000	4.780

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS						CAL-AMT	ON-COL
*****	*****		*****	*****	*****	*****	( NG)	( NG)
M 162 benzo b,k Fluoranthene Totals	252					78259	5.00000	

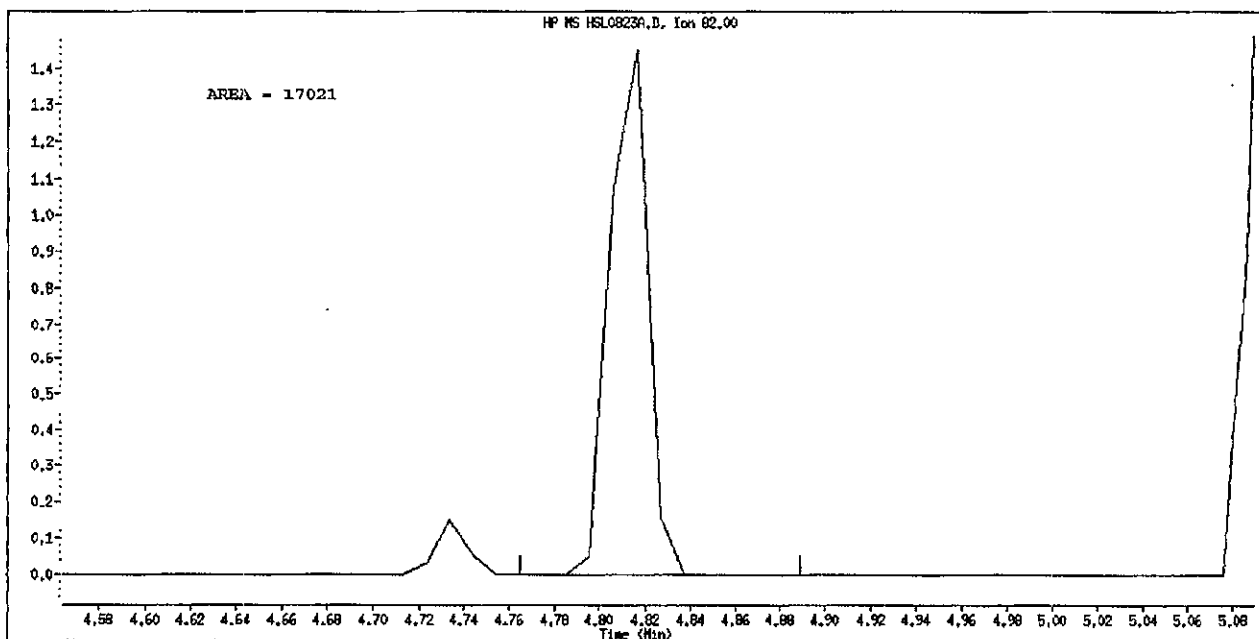
QC Flag Legend

M - Compound response manually integrated.

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Inj. Date and Time: 23-AUG-2010 16:40  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: Nitrobenzene-d5  
CAS #: 4165-60-0  
Report Date: 08/24/2010



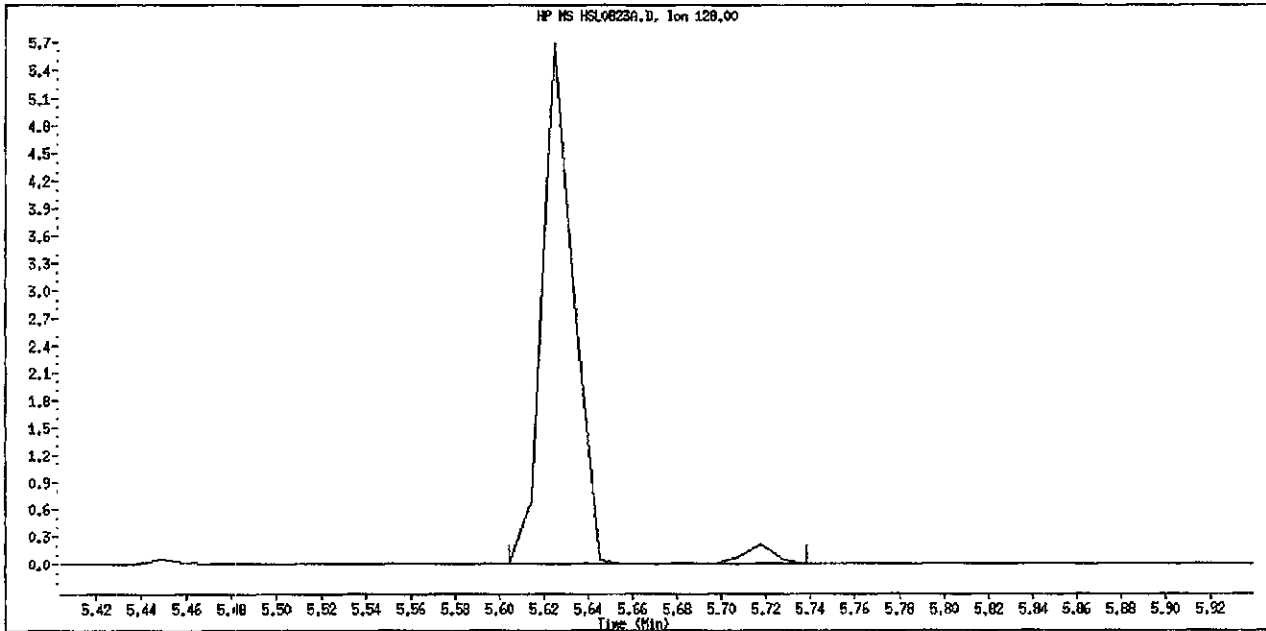
Original Integration



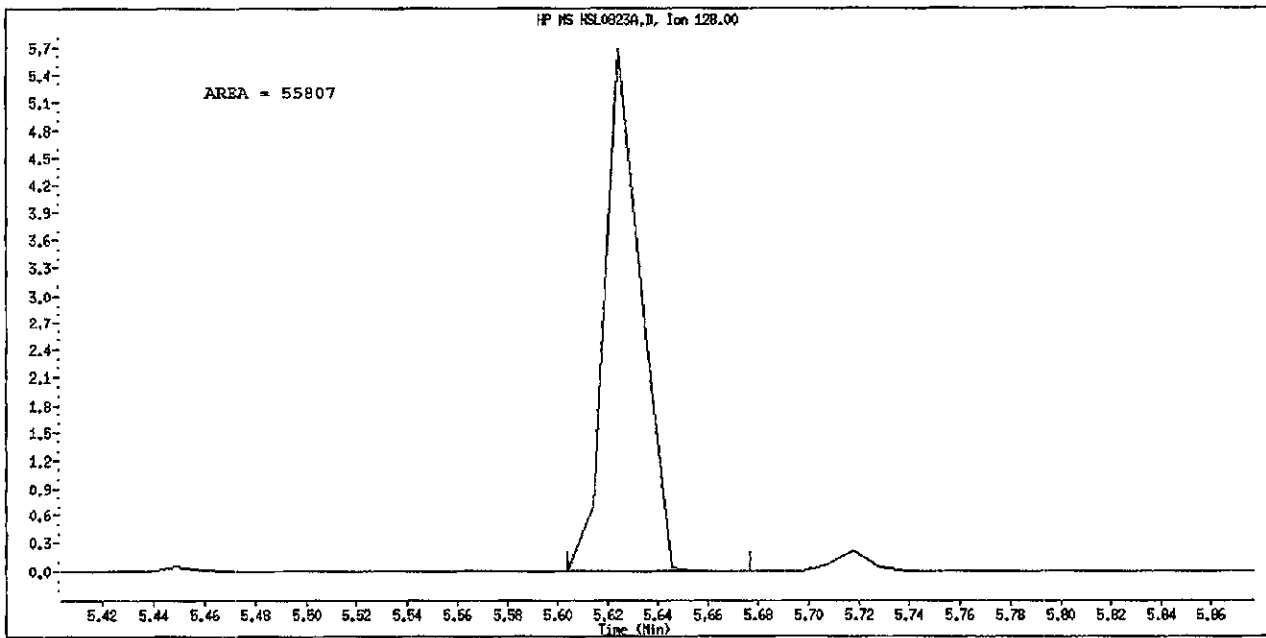
Manual Integration

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

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Client ID: 8270F.M  
Compound Name: Naphthalene  
CAS #: 91-20-3  
Report Date: 08/24/2010



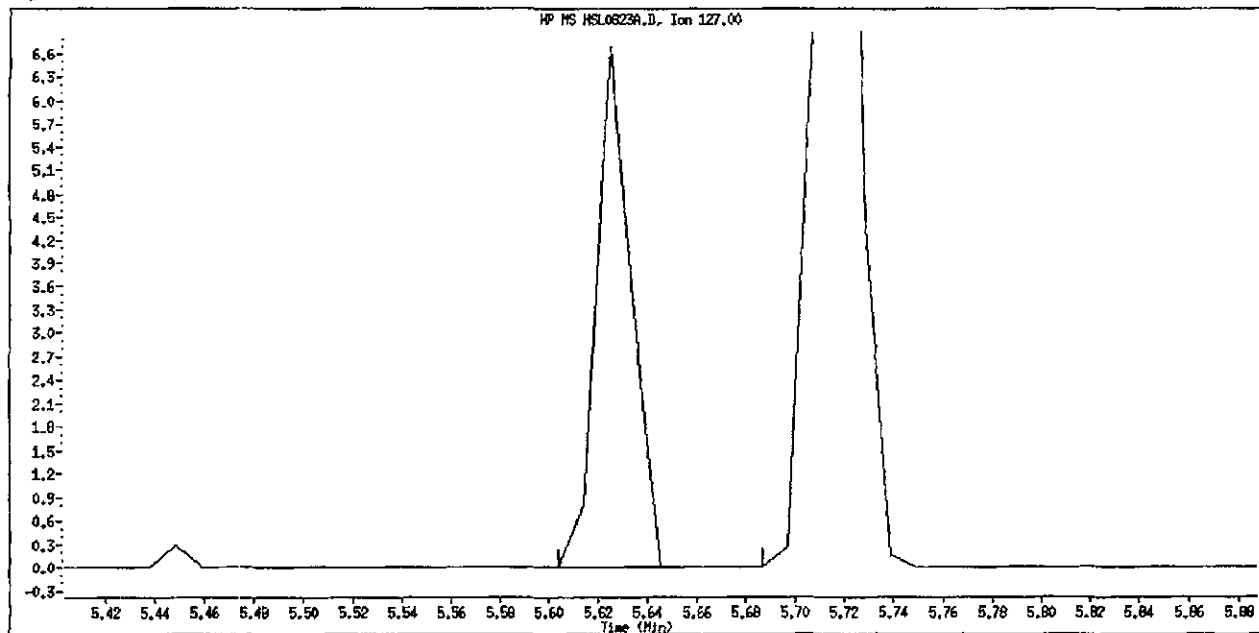
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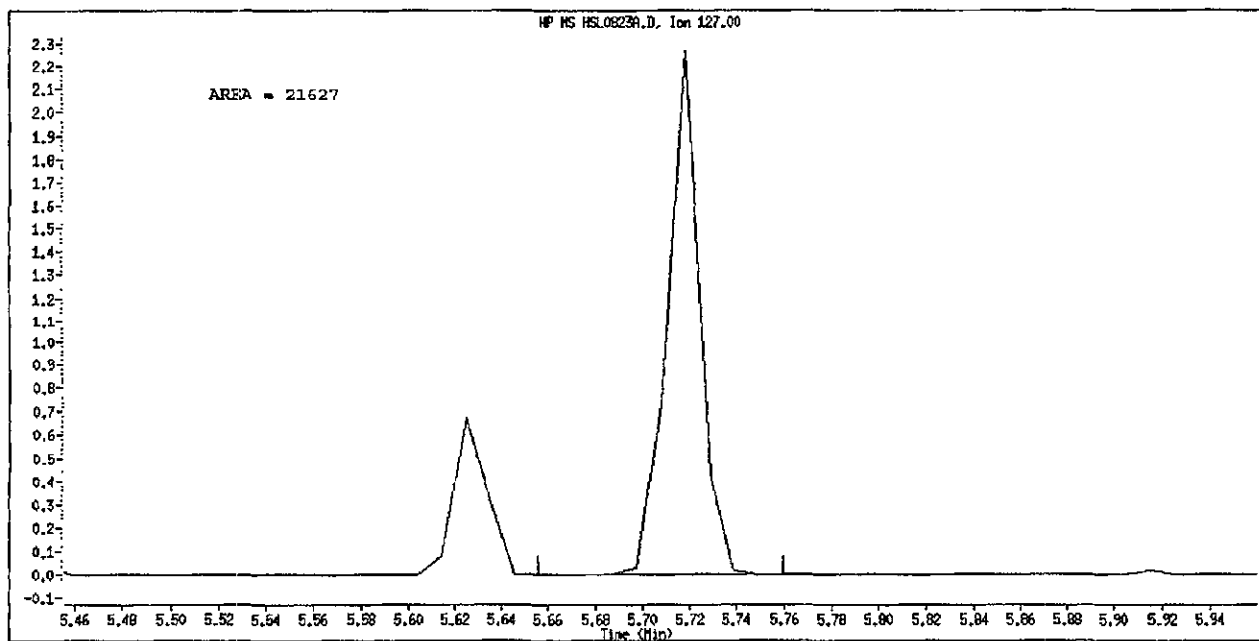
Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

Data File Name: HSL0823A.D  
Inj. Date and Time: 23-AUG-2010 16:40  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: 4-Chloroaniline  
CAS #: 106-47-8  
Report Date: 08/24/2010



Original Integration

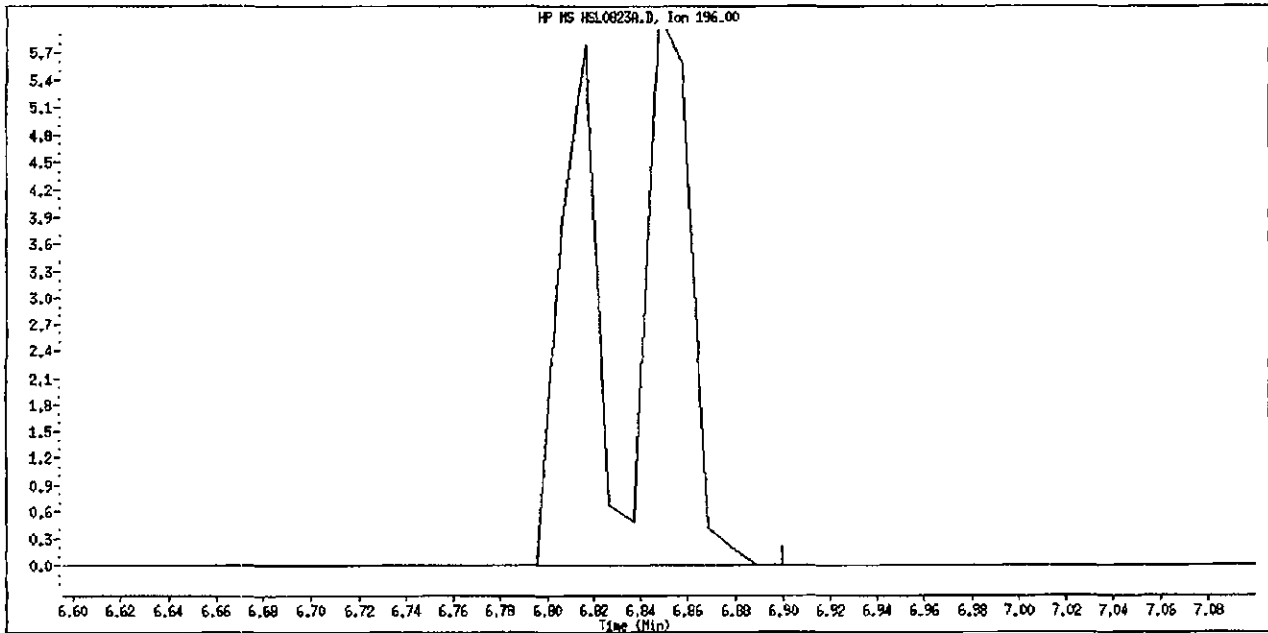


Manual Integration

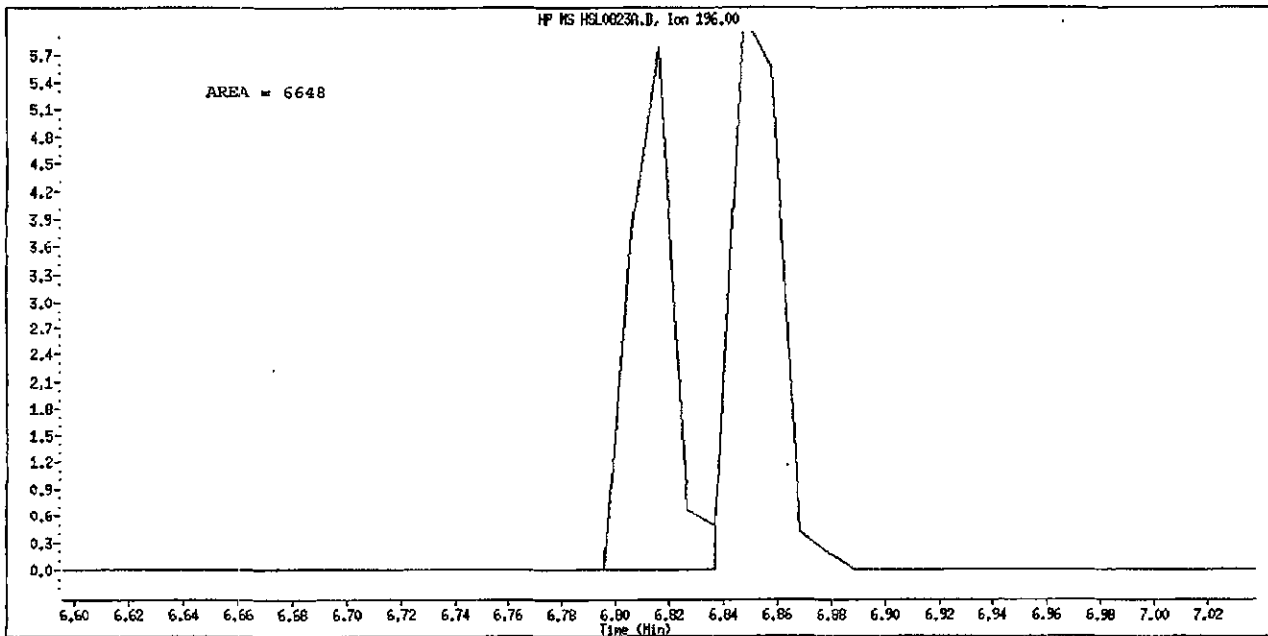
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Manual Integration Reason: Wrong Peak



Data File Name: HSL0823A.D  
Inj. Date and Time: 23-AUG-2010 16:40  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: 2,4,6-Trichlorophenol  
CAS #: 88-06-2  
Report Date: 08/24/2010



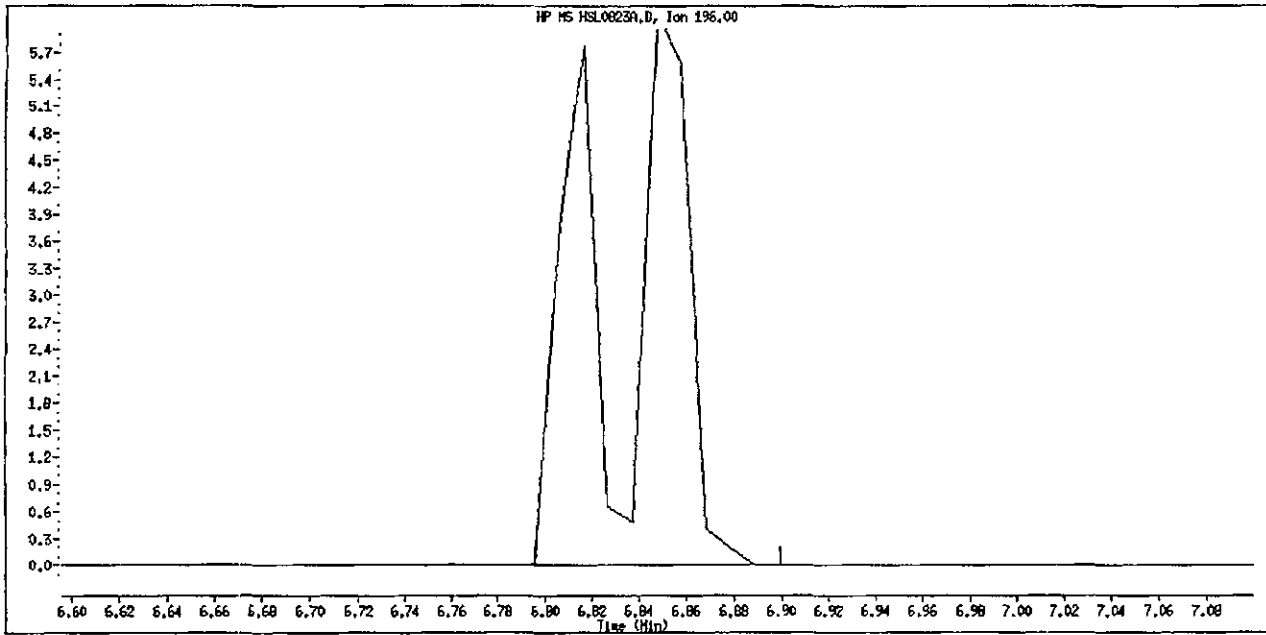
Original Integration



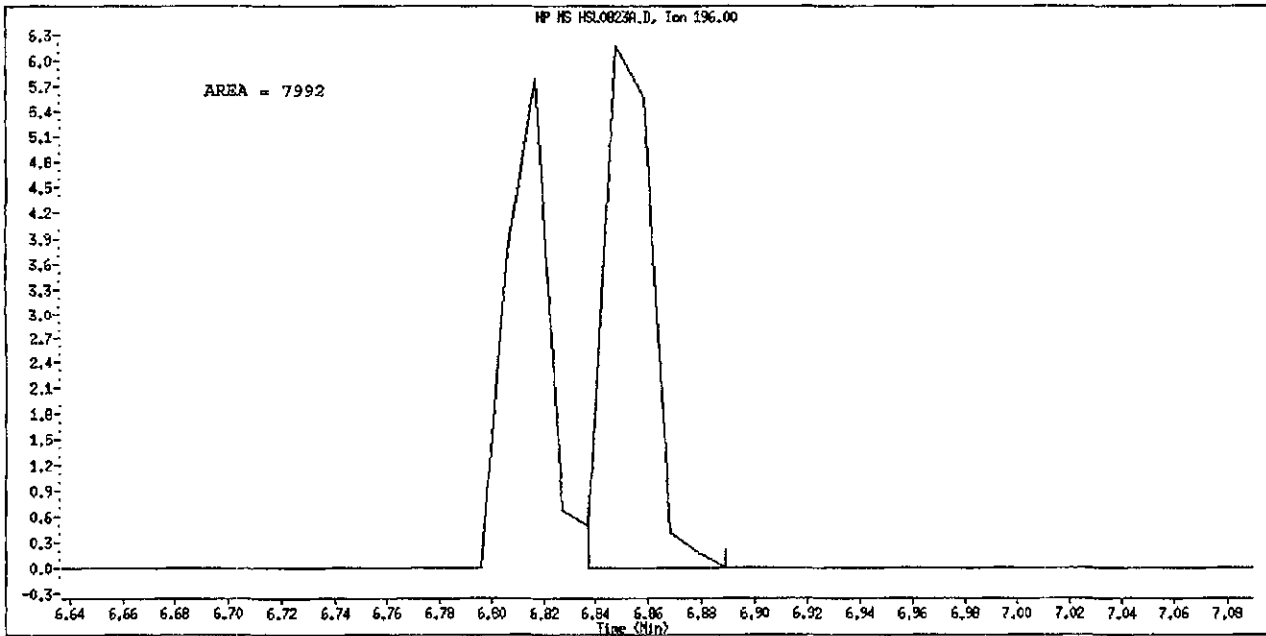
Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

Data File Name: HSL0823A.D  
Inj. Date and Time: 23-AUG-2010 16:40  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: 2,4,5-Trichlorophenol  
CAS #: 95-95-4  
Report Date: 08/24/2010



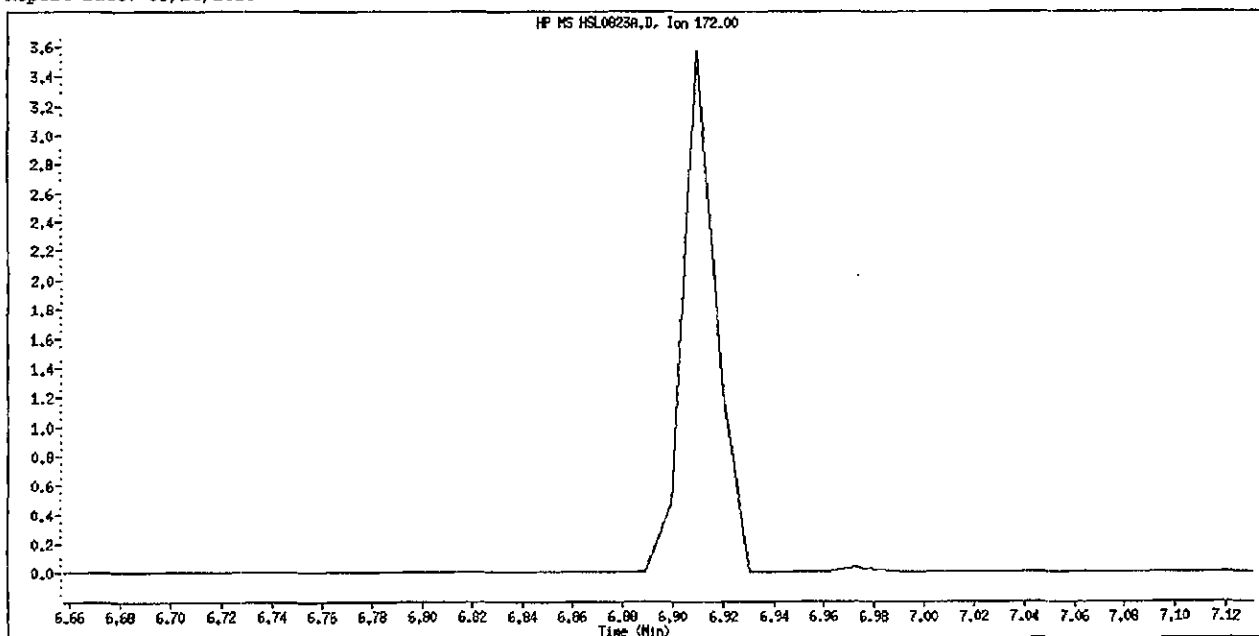
Original Integration



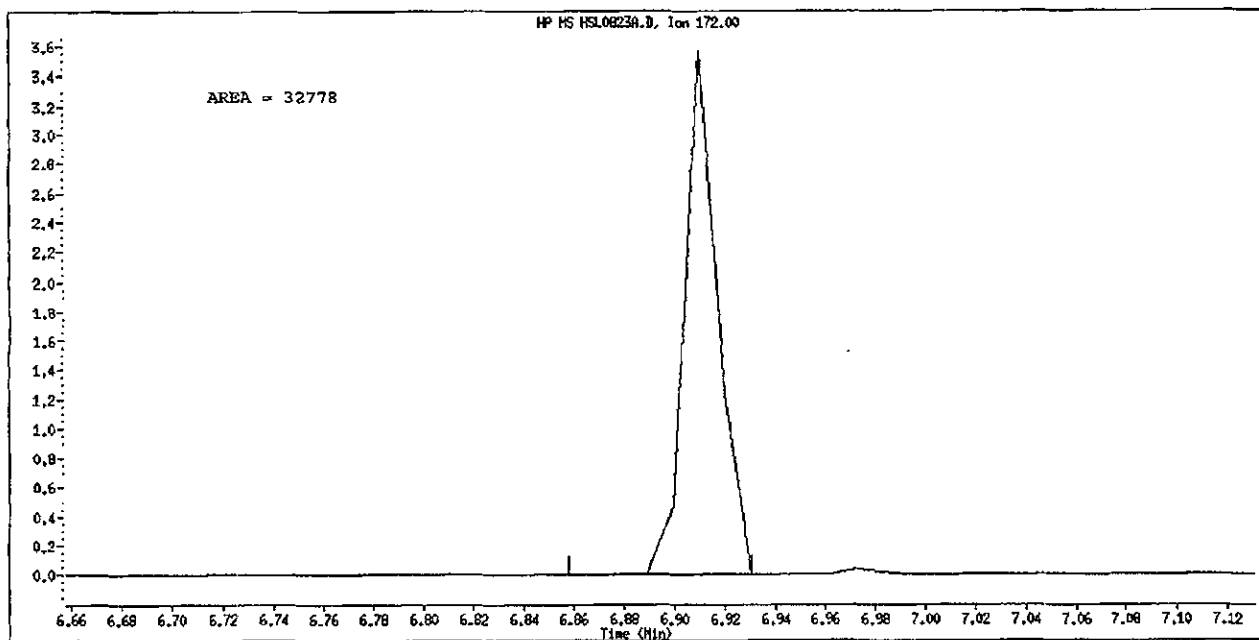
Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

Data File Name: HSL0823A.D  
Inj. Date and Time: 23-AUG-2010 16:40  
Instrument ID: sv5.1  
Client ID: 8270F.M  
Compound Name: 2-Fluorobiphenyl  
CAS #: 321-60-8  
Report Date: 08/24/2010



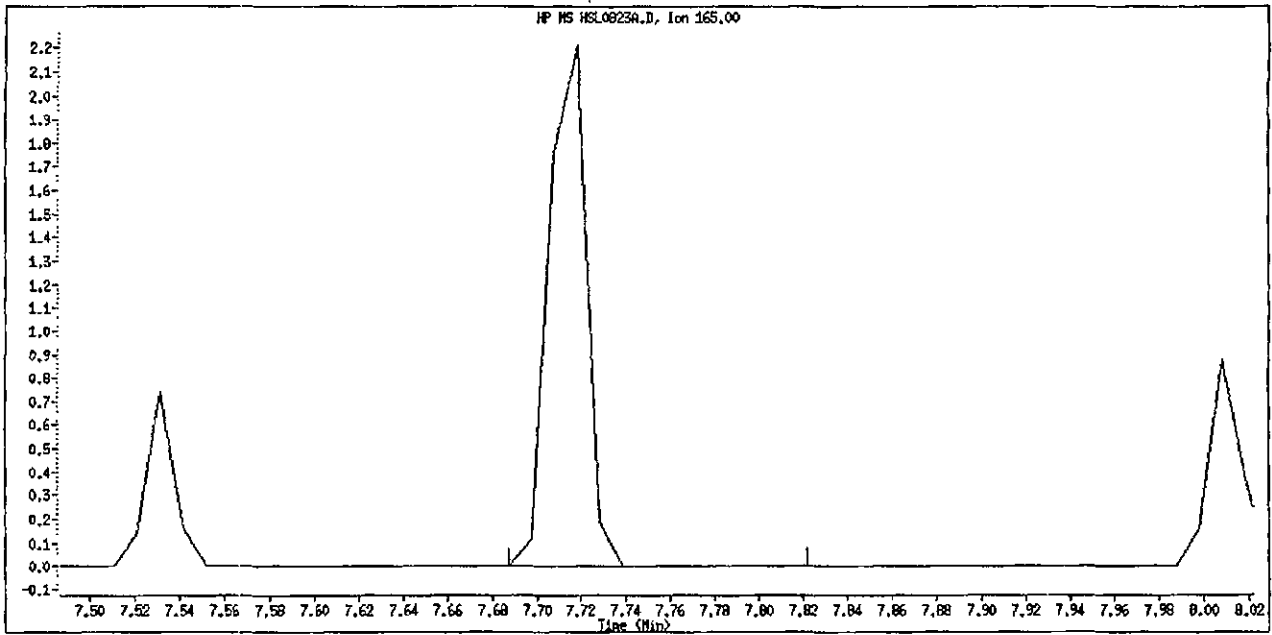
Original Integration



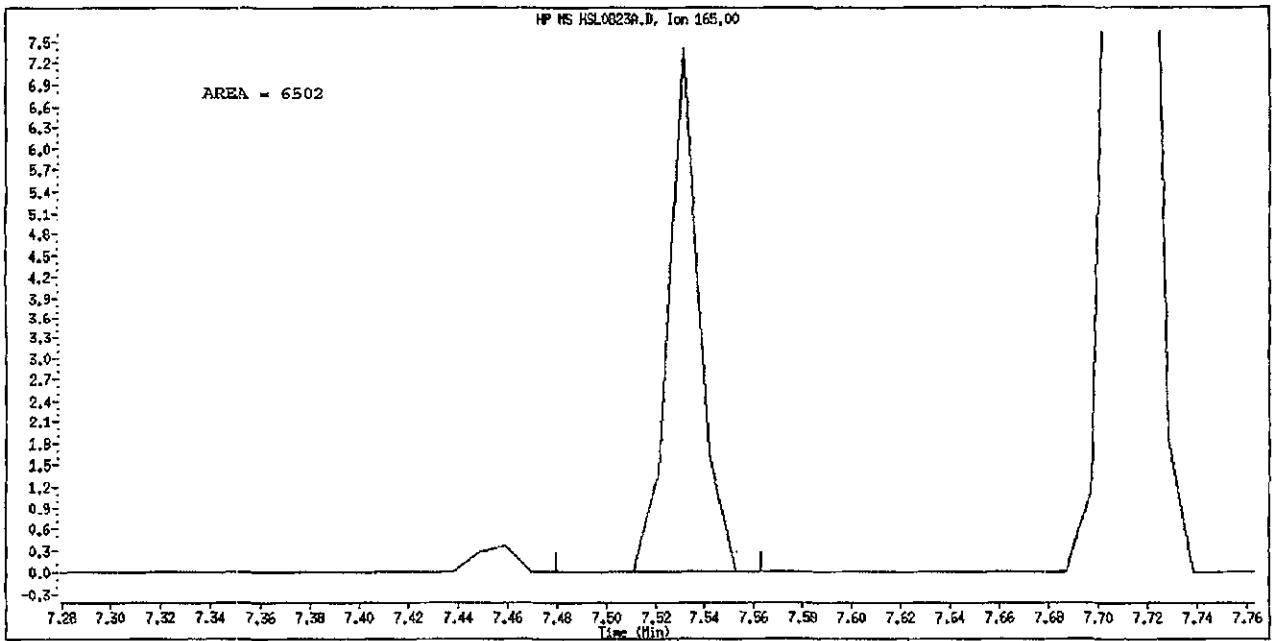
Manual Integration

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

Data File Name: HSL0823A.D  
Inj. Date and Time: 23-AUG-2010 16:40  
Instrument ID: sv5.1  
Client ID: 8270F.M  
Compound Name: 2,6-Dinitrotoluene  
CAS #: 606-20-2  
Report Date: 08/24/2010



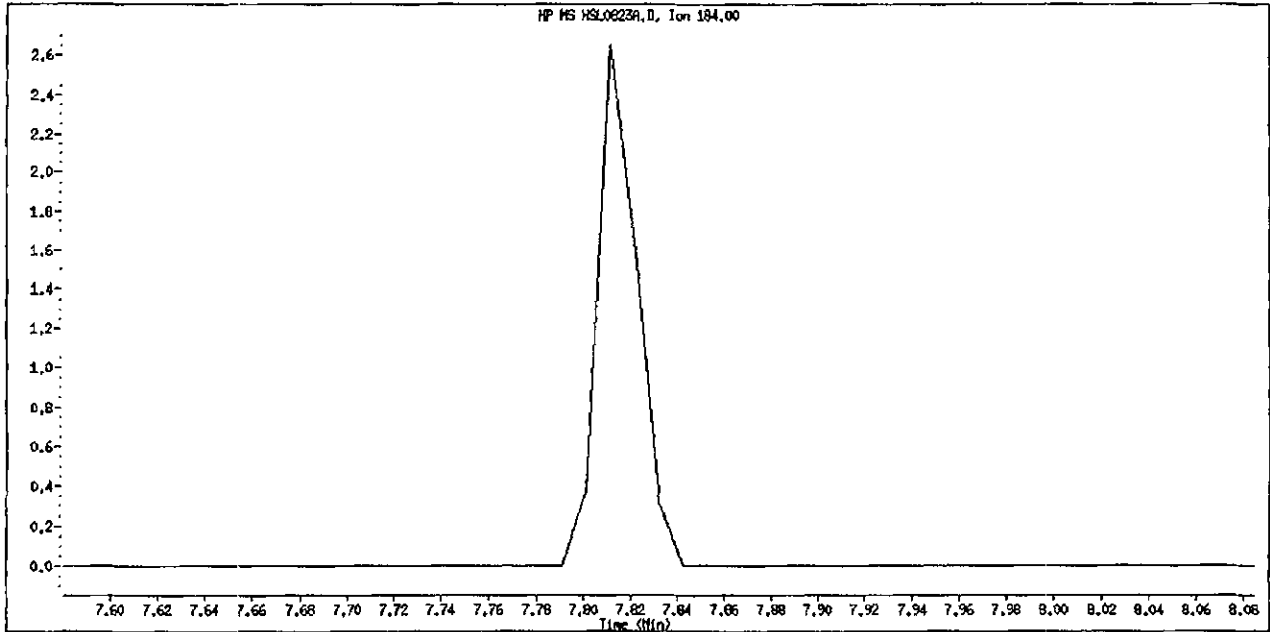
Original Integration



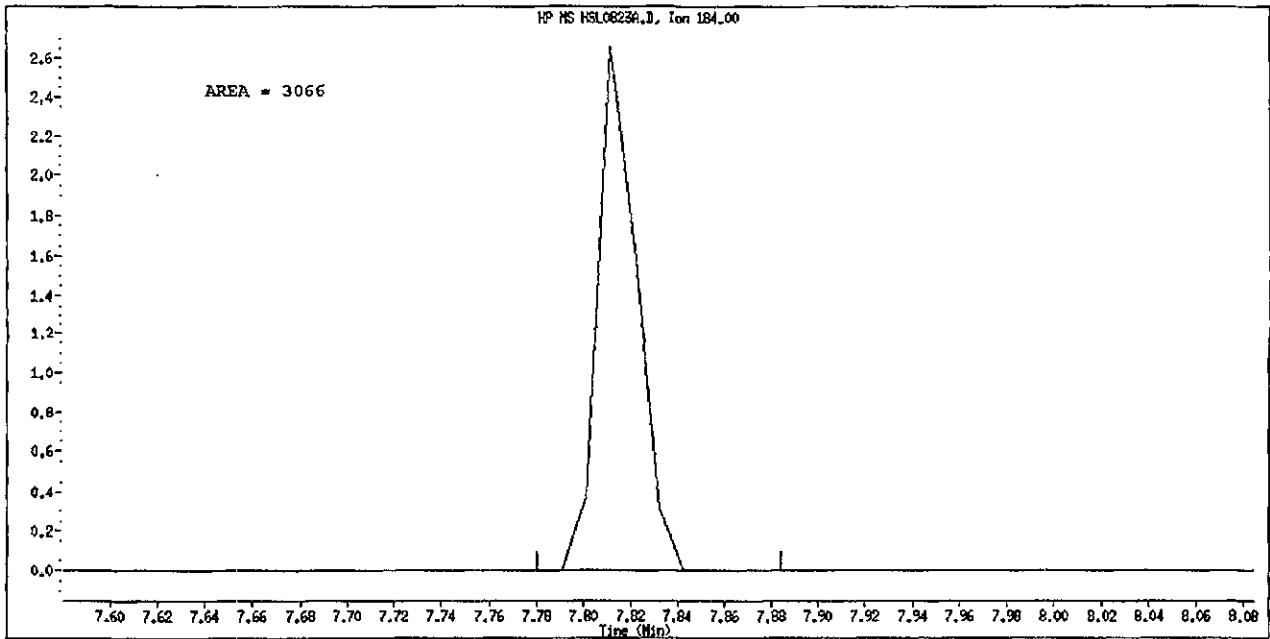
Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Wrong Peak

Data File Name: HSL0823A.D  
Inj. Date and Time: 23-AUG-2010 16:40  
Instrument ID: sv5.1  
Client ID: 8270F.M  
Compound Name: 2,4-Dinitrophenol  
CAS #: 51-28-5  
Report Date: 08/24/2010



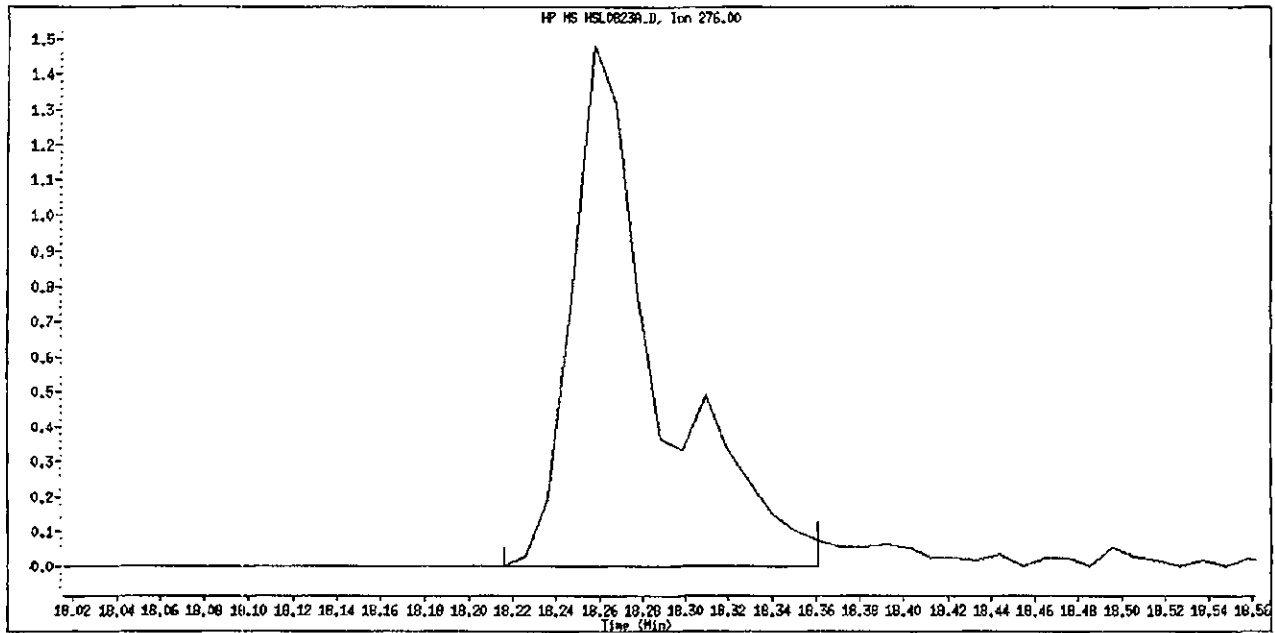
Original Integration



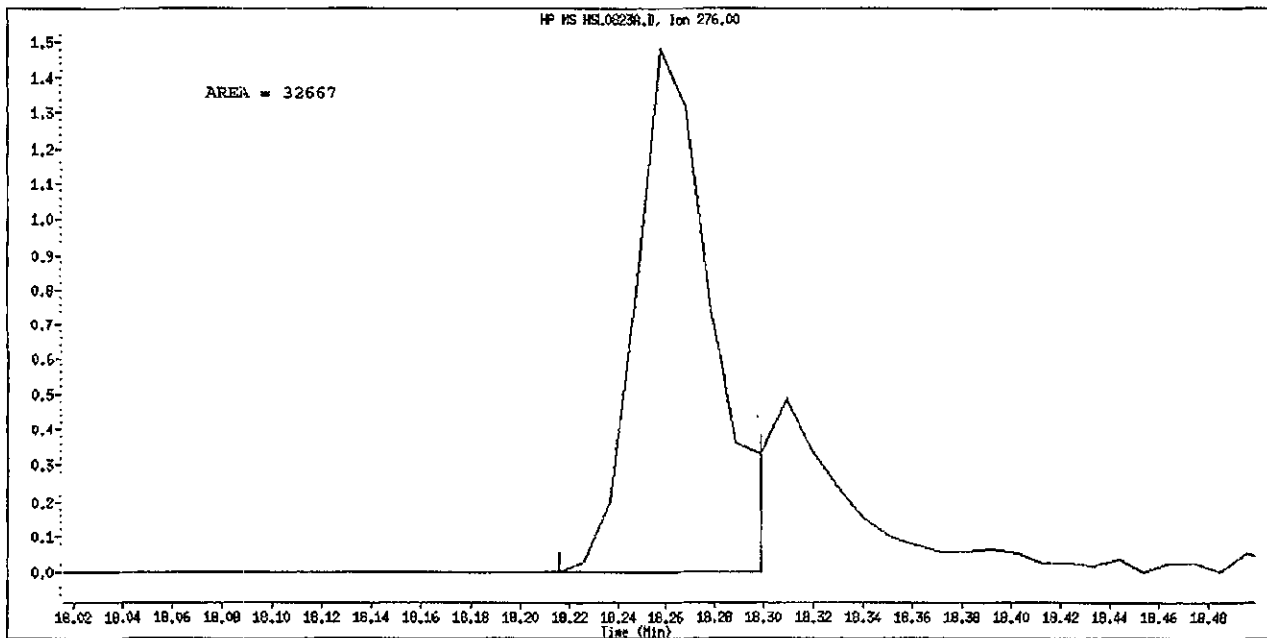
Manual Integration

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

Data File Name: HSL0823A.D  
Inj. Date and Time: 23-AUG-2010 16:40  
Instrument ID: sv5.1  
Client ID: 8270P.M  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 08/24/2010



Original Integration



Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

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Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823A.D  
 Lab Smp Id: HSL 005 ug/ml CS-1 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 16:40  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 005 ug/ml CS-1;1;;1;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0307;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 16:02 scotts Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:45 Cal File: AP90817A.D  
 Als bottle: 92 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152		4.184	4.184	(1.000)	91148	40.0000	
* 2 Naphthalene-d8	136		5.604	5.604	(1.000)	397203	40.0000	
* 3 Acenaphthene-d10	164		7.718	7.718	(1.000)	207096	40.0000	
* 4 Phenanthrene-d10	188		9.697	9.697	(1.000)	320757	40.0000	
* 5 Chrysene-d12	240		14.122	14.122	(1.000)	307293	40.0000	
* 6 Perylene-d12	264		16.516	16.516	(1.000)	324529	40.0000	
\$ 7 2-Fluorophenol	112		2.961	2.961	(0.708)	15987	5.00000	4.743
\$ 8 Phenol-d5	99		3.821	3.821	(0.913)	20363	5.00000	4.716
\$ 9 2-Chlorophenol-d4	132		3.977	3.977	(0.950)	17625	5.00000	4.840
\$ 10 1,2-Dichlorobenzene-d4	152		4.391	4.391	(1.050)	11545	5.00000	5.095
\$ 11 Nitrobenzene-d5	82		Compound Not Detected.					
\$ 12 2-Fluorobiphenyl	172		Compound Not Detected.					
\$ 13 2,4,6-Tribromophenol	330		8.744	8.744	(1.133)	3453	5.00000	4.262
\$ 14 Terphenyl-d14	244		12.340	12.340	(0.874)	29315	5.00000	4.930
15 N-Nitrosodimethylamine	74		1.935	1.935	(0.463)	11039	5.00000	4.758
16 Pyridine	79		1.966	1.966	(0.470)	19854	5.00000	5.165
23 Aniline	93		3.883	3.883	(0.928)	25614	5.00000	4.738
24 Phenol	94		3.831	3.831	(0.916)	21490	5.00000	4.729
26 Bis(2-chloroethyl) ether	93		3.945	3.945	(0.943)	16784	5.00000	4.829
27 2-Chlorophenol	128		3.997	3.997	(0.955)	17412	5.00000	4.836
28 1,3-Dichlorobenzene	146		4.153	4.153	(0.993)	19814	5.00000	4.988
29 1,4-Dichlorobenzene	146		4.205	4.205	(1.005)	18980	5.00000	4.716
30 Benzyl Alcohol	108		4.339	4.339	(1.037)	11898	5.00000	4.817
31 1,2-Dichlorobenzene	146		4.401	4.401	(1.052)	19252	5.00000	5.066
32 2-Methylphenol	108		4.474	4.474	(1.069)	15756	5.00000	4.644
33 2,2'-oxybis(1-Chloropropane)	45		4.526	4.526	(1.082)	32447	5.00000	4.900
34 4-Methylphenol	108		4.629	4.629	(1.106)	16316	5.00000	4.517
36 Hexachloroethane	117		4.733	4.733	(1.131)	7068	5.00000	4.986
37 N-Nitrosodipropylamine	70		4.671	4.671	(1.116)	12484	5.00000	4.911
42 Nitrobenzene	77		4.837	4.837	(0.863)	17983	5.00000	5.090
44 Isophorone	82		5.096	5.096	(0.909)	32841	5.00000	4.897
45 2-Nitrophenol	139		5.199	5.199	(0.928)	8465	5.00000	4.455
46 2,4-Dimethylphenol	107		5.230	5.230	(0.933)	17379	5.00000	4.880

Compounds	QUANT SIG		AMOUNTS					
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)	
47 Bis(2-chloroethoxy)methane	93	5.355	5.355	(0.956)	18999	5.00000	4.768	
49 2,4-Dichlorophenol	162	5.448	5.448	(0.972)	12803	5.00000	4.932	
50 Benzoic Acid	122	5.282	5.282	(0.943)	8004	5.00000	6.346	
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	14409	5.00000	5.127	
52 Naphthalene	128	5.624	5.624	(1.004)	57827	5.00000	5.204	
54 4-Chloroaniline	127	5.624	5.624	(1.004)	6587	5.00000	1.882	
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	6614	5.00000	5.116	
60 4-Chloro-3-Methylphenol	107	6.288	6.288	(1.122)	14034	5.00000	4.652	
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	32784	5.00000	4.858	
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	7599	5.00000	4.789	
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	14320	5.00000	8.043	
70 2,4,5-Trichlorophenol	196	6.816	6.816	(0.883)	14320	5.00000	7.609	
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	29428	5.00000	5.095	
73 2-Nitroaniline	65	7.179	7.179	(0.930)	9276	5.00000	4.700	
76 Dimethylphthalate	163	7.459	7.459	(0.966)	32438	5.00000	4.851	
77 Acenaphthylene	152	7.521	7.521	(0.974)	47334	5.00000	4.669	
79 2,6-Dinitrotoluene	165	7.718	7.718	(1.000)	26534	5.00000	12.83	
80 3-Nitroaniline	138	7.687	7.687	(0.996)	9193	5.00000	4.636	
81 Acenaphthene	153	7.749	7.749	(1.004)	31423	5.00000	4.868	
82 2,4-Dinitrophenol	184	Compound Not Detected.						
83 Dibenzofuran	168	7.946	7.946	(1.030)	42649	5.00000	5.006	
84 4-Nitrophenol	109	7.894	7.894	(1.023)	3822	5.00000	4.320	
86 2,4-Dinitrotoluene	165	8.008	8.008	(1.038)	8655	5.00000	5.933	
91 Fluorene	166	8.391	8.391	(1.087)	33483	5.00000	4.794	
92 Diethylphthalate	149	8.350	8.350	(1.082)	36351	5.00000	5.186	
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	14593	5.00000	5.089	
94 4-Nitroaniline	138	8.464	8.464	(1.097)	8698	5.00000	4.440	
97 4,6-Dinitro-2-methylphenol	198	8.526	8.526	(0.879)	3873	5.00000	6.074	
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	29759	5.86000	5.926	
100 Azobenzene	77	8.609	8.609	(0.888)	34137	5.00000	4.818	
101 4-Bromophenyl-phenylether	248	9.065	9.065	(0.935)	7284	5.00000	4.733	
108 Hexachlorobenzene	284	9.262	9.262	(0.955)	8191	5.00000	4.924	
110 Pentachlorophenol	266	9.521	9.521	(0.982)	4282	5.00000	4.156	
114 Phenanthrene	178	9.728	9.728	(1.003)	48882	5.00000	4.868	
115 Anthracene	178	9.790	9.790	(1.010)	48108	5.00000	4.761	
118 Carbazole	167	10.060	10.060	(1.037)	44562	5.00000	4.719	
120 Di-n-Butylphthalate	149	10.754	10.754	(1.109)	50710	5.00000	4.435	
126 Fluoranthene	202	11.624	11.624	(1.199)	41793	5.00000	4.605	
127 Benzidine	184	11.884	11.884	(0.841)	26818	5.00000	5.356	
128 Pyrene	202	11.987	11.987	(0.849)	47347	5.00000	4.963	
134 3,3'-dimethylbenzidine	212	13.189	13.189	(0.934)	22191	5.00000	5.992	
136 Butylbenzylphthalate	149	13.303	13.303	(0.942)	22139	5.00000	4.484	
138 Benzo(a)Anthracene	228	14.091	14.091	(0.998)	39402	5.00000	4.850	
139 Chrysene	228	14.163	14.163	(1.003)	42571	5.00000	5.065	
140 3,3'-Dichlorobenzidine	252	14.132	14.132	(1.001)	13228	5.00000	4.479	
141 bis(2-ethylhexyl)Phthalate	149	14.433	14.433	(1.022)	30835	5.00000	4.518	
142 Di-n-octylphthalate	149	15.490	15.490	(1.097)	45950	5.00000	5.880	
144 Benzo(b)fluoranthene	252	15.925	15.925	(0.964)	33424	5.00000	4.338	
145 Benzo(k)fluoranthene	252	15.967	15.967	(0.967)	44835	5.00000	4.963	
147 Benzo(e)pyrene	252	16.350	16.350	(0.990)	36134	5.00000	4.731	
148 Benzo(a)pyrene	252	16.433	16.433	(0.995)	39312	5.00000	4.663	
151 Indeno(1,2,3-cd)pyrene	276	18.257	18.257	(1.105)	41134	5.00000	5.552	
152 Dibenzo(a,h)anthracene	278	18.319	18.319	(1.109)	34423	5.00000	4.501	
153 Benzo(g,h,i)perylene	276	18.734	18.734	(1.134)	39032	5.00000	4.780	



Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
===== M 162 benzo b,k Fluoranthene Totals	252				78259	5.00000	4.676 (A)

QC Flag Legend

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

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INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i Calibration Date: 23-AUG-2010  
 Lab File ID: HSL0823A.D Calibration Time: 16:14  
 Lab Smp Id: HSL 005 ug/ml CS-1 Client Smp ID: 8270F.M  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: KT  
 Method File: \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Misc Info: 3;;0;l\_8270STD.SUB;10MSSV0307;0;8270F.M

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	91148	-18.91
2 Naphthalene-d8	494728	247364	989456	397203	-19.71
3 Acenaphthene-d10	264752	132376	529504	207096	-21.78
4 Phenanthrene-d10	415811	207906	831622	320757	-22.86
5 Chrysene-d12	431516	215758	863032	307293	-28.79
6 Perylene-d12	416460	208230	832920	324529	-22.07

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	0.00
2 Naphthalene-d8	5.60	5.10	6.10	5.60	0.00
3 Acenaphthene-d10	7.72	7.22	8.22	7.72	0.00
4 Phenanthrene-d10	9.70	9.20	10.20	9.70	0.00
5 Chrysene-d12	14.13	13.63	14.63	14.12	-0.07
6 Perylene-d12	16.53	16.03	17.03	16.52	-0.06

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



TestAmerica WestSacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823B.D  
 Lab Smp Id: HSL\_010 ug/ml CS-2 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 17:06  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL\_010 ug/ml CS-2;1;;2;;;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0308;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 15:55 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:45 Cal File: AP90817A.D  
 Als bottle: 93 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT	SIG	AMOUNTS				CAL-AMT ( NG)	ON-COL ( NG)
			MASS	RT	EXP RT	REL RT		
* 1 1,4-Dichlorobenzene-d4	152		4.184	4.184	(1.000)	109349	40.0000	
* 2 Naphthalene-d8	136		5.603	5.603	(1.000)	480513	40.0000	
* 3 Acenaphthene-d10	164		7.718	7.718	(1.000)	244234	40.0000	
* 4 Phenanthrene-d10	188		9.697	9.697	(1.000)	370407	40.0000	
* 5 Chrysene-d12	240		14.122	14.122	(1.000)	358849	40.0000	
* 6 Perylene-d12	264		16.516	16.516	(1.000)	356753	40.0000	
\$ 7 2-Fluorophenol	112		2.961	2.961	(0.708)	39885	10.0000	9.934
\$ 8 Phenol-d5	99		3.821	3.821	(0.913)	48973	10.0000	9.488
\$ 9 2-Chlorophenol-d4	132		3.976	3.976	(0.950)	43673	10.0000	10.04
\$ 10 1,2-Dichlorobenzene-d4	152		4.391	4.391	(1.050)	27916	10.0000	10.34
\$ 11 Nitrobenzene-d5	82		4.816	4.816	(0.859)	42329	10.0000	10.05
\$ 12 2-Fluorobiphenyl	172		6.909	6.909	(0.895)	78986	10.0000	10.23
\$ 13 2,4,6-Tribromophenol	330		8.743	8.743	(1.133)	8730	10.0000	9.591
\$ 14 Terphenyl-d14	244		12.339	12.339	(0.874)	70463	10.0000	9.996
15 N-Nitrosodimethylamine	74		1.935	1.935	(0.463)	28754	10.0000	10.36
16 Pyridine	79		1.966	1.966	(0.470)	43595	10.0000	9.415
23 Aniline	93		3.883	3.883	(0.928)	62371	10.0000	9.521
24 Phenol	94		3.831	3.831	(0.916)	52850	10.0000	9.594
26 Bis(2-chloroethyl) ether	93		3.945	3.945	(0.943)	42799	10.0000	10.12
27 2-Chlorophenol	128		3.997	3.997	(0.955)	42655	10.0000	9.868
28 1,3-Dichlorobenzene	146		4.153	4.153	(0.993)	47292	10.0000	9.933
29 1,4-Dichlorobenzene	146		4.204	4.204	(1.005)	47547	10.0000	9.810
30 Benzyl Alcohol	108		4.339	4.339	(1.037)	29205	10.0000	9.986
31 1,2-Dichlorobenzene	146		4.401	4.401	(1.052)	45728	10.0000	10.09
32 2-Methylphenol	108		4.474	4.474	(1.069)	38900	10.0000	9.481
33 2,2'-oxybis(1-Chloropropane)	45		4.515	4.515	(1.079)	78149	10.0000	9.312
34 4-Methylphenol	108		4.629	4.629	(1.106)	42510	10.0000	9.943
36 Hexachloroethane	117		4.733	4.733	(1.131)	16502	10.0000	9.860
37 N-Nitrosodipropylamine	70		4.671	4.671	(1.116)	29691	10.0000	9.637
42 Nitrobenzene	77		4.837	4.837	(0.863)	41087	10.0000	9.692
44 Isophorone	82		5.096	5.096	(0.909)	76738	10.0000	9.267
45 2-Nitrophenol	139		5.199	5.199	(0.928)	22181	10.0000	10.50(Q)
46 2,4-Dimethylphenol	107		5.230	5.230	(0.933)	41193	10.0000	9.523

*SM 8/24/10*

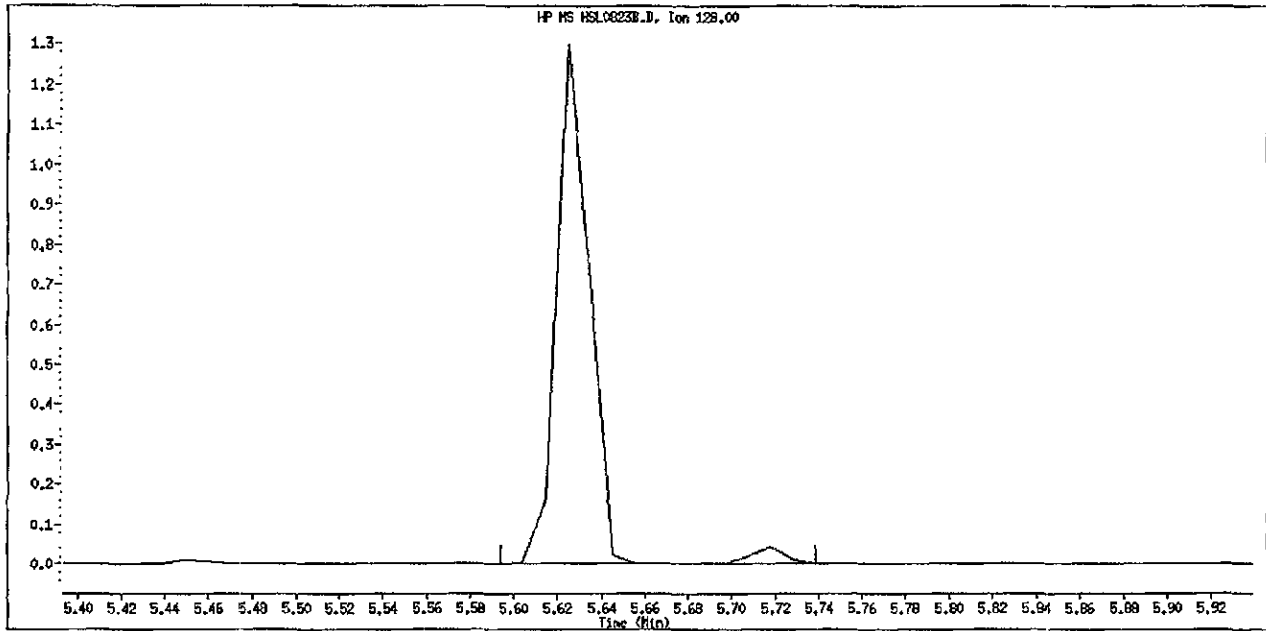
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
47 Bis (2-chloroethoxy)methane	93	5.355	5.355	(0.956)	49723	10.0000	10.31
49 2,4-Dichlorophenol	162	5.448	5.448	(0.972)	30918	10.0000	9.987
50 Benzoic Acid	122	5.293	5.293	(0.945)	21115	10.0000	12.61
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	34305	10.0000	10.06
52 Naphthalene	128	5.624	5.624	(1.004)	133483	10.0000	9.945 (M)
54 4-Chloroaniline	127	5.717	5.717	(1.020)	51930	10.0000	10.88 (QH)
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	16493	10.0000	10.44
60 4-Chloro-3-Methylphenol	107	6.287	6.287	(1.122)	33857	10.0000	9.313
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	80061	10.0000	9.658
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	16765	10.0000	10.98
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	17905	10.0000	9.987 (M)
70 2,4,5-Trichlorophenol	196	6.847	6.847	(0.887)	19245	10.0000	9.696 (M)
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	67736	10.0000	9.886
73 2-Nitroaniline	65	7.189	7.189	(0.932)	21886	10.0000	9.927
76 Dimethylphthalate	163	7.458	7.458	(0.966)	77312	10.0000	9.676
77 Acenaphthylene	152	7.521	7.521	(0.974)	117976	10.0000	9.866
79 2,6-Dinitrotoluene	165	7.531	7.531	(0.976)	16605	10.0000	9.686 (QM)
80 3-Nitroaniline	138	7.686	7.686	(0.996)	22838	10.0000	10.07
81 Acenaphthene	153	7.749	7.749	(1.004)	77159	10.0000	10.15
82 2,4-Dinitrophenol	184	7.811	7.811	(1.012)	7808	10.0000	12.46
83 Dibenzofuran	168	7.946	7.946	(1.030)	99974	10.0000	9.959
84 4-Nitrophenol	109	7.894	7.894	(1.023)	10218	10.0000	10.25 (Q)
86 2,4-Dinitrotoluene	165	8.008	8.008	(1.038)	21764	10.0000	12.00
91 Fluorene	166	8.391	8.391	(1.087)	83101	10.0000	10.21
92 Diethylphthalate	149	8.350	8.350	(1.082)	81986	10.0000	9.798
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	34527	10.0000	10.23
94 4-Nitroaniline	138	8.464	8.464	(1.097)	21157	10.0000	9.515
97 4,6-Dinitro-2-methylphenol	198	8.536	8.536	(0.880)	9956	10.0000	12.20
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	69767	11.7000	12.19
100 Azobenzene	77	8.609	8.609	(0.888)	80133	10.0000	9.548
101 4-Bromophenyl-phenylether	248	9.065	9.065	(0.935)	18282	10.0000	10.50
108 Hexachlorobenzene	284	9.262	9.262	(0.955)	20024	10.0000	10.52
110 Pentachlorophenol	266	9.521	9.521	(0.982)	10629	10.0000	9.600
114 Phenanthrene	178	9.728	9.728	(1.003)	118548	10.0000	10.18
115 Anthracene	178	9.790	9.790	(1.010)	113533	10.0000	9.795
118 Carbazole	167	10.060	10.060	(1.037)	107939	10.0000	9.986
120 Di-n-Butylphthalate	149	10.754	10.754	(1.109)	122649	10.0000	9.492
126 Fluoranthene	202	11.624	11.624	(1.199)	100507	10.0000	9.792
127 Benzidine	184	11.883	11.883	(0.841)	68288	10.0000	11.58
128 Pyrene	202	11.987	11.987	(0.849)	110409	10.0000	9.640
134 3,3'-dimethylbenzidine	212	13.189	13.189	(0.934)	57609	10.0000	11.48
136 Butylbenzylphthalate	149	13.303	13.303	(0.942)	55168	10.0000	9.678
138 Benzo (a) Anthracene	228	14.091	14.091	(0.998)	92935	10.0000	9.854
139 Chrysene	228	14.163	14.163	(1.003)	98930	10.0000	9.974
140 3,3'-Dichlorobenzidine	252	14.132	14.132	(1.001)	32203	10.0000	9.770
141 Bis (2-ethylhexyl) Phthalate	149	14.433	14.433	(1.022)	74784	10.0000	9.582
142 Di-n-octylphthalate	149	15.490	15.490	(1.097)	113249	10.0000	11.18
144 Benzo (b) fluoranthene	252	15.925	15.925	(0.964)	76293	10.0000	9.097
145 Benzo (k) fluoranthene	252	15.966	15.966	(0.967)	99665	10.0000	9.676
147 Benzo (e) pyrene	252	16.350	16.350	(0.990)	79673	10.0000	9.438
148 Benzo (a) pyrene	252	16.433	16.433	(0.995)	86294	10.0000	9.426
151 Indeno (1,2,3-cd) pyrene	276	18.257	18.257	(1.105)	75579	10.0000	10.34 (M)
152 Dibenzo (a, h) anthracene	278	18.309	18.309	(1.109)	80379	10.0000	9.862
153 Benzo (g, h, i) perylene	276	18.733	18.733	(1.134)	86476	10.0000	9.954

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
*****	----		----	-----	-----	-----	( NG)	( NG)
M 162 benzo b,k Flucranthene Totals	252					175958	10.0000	

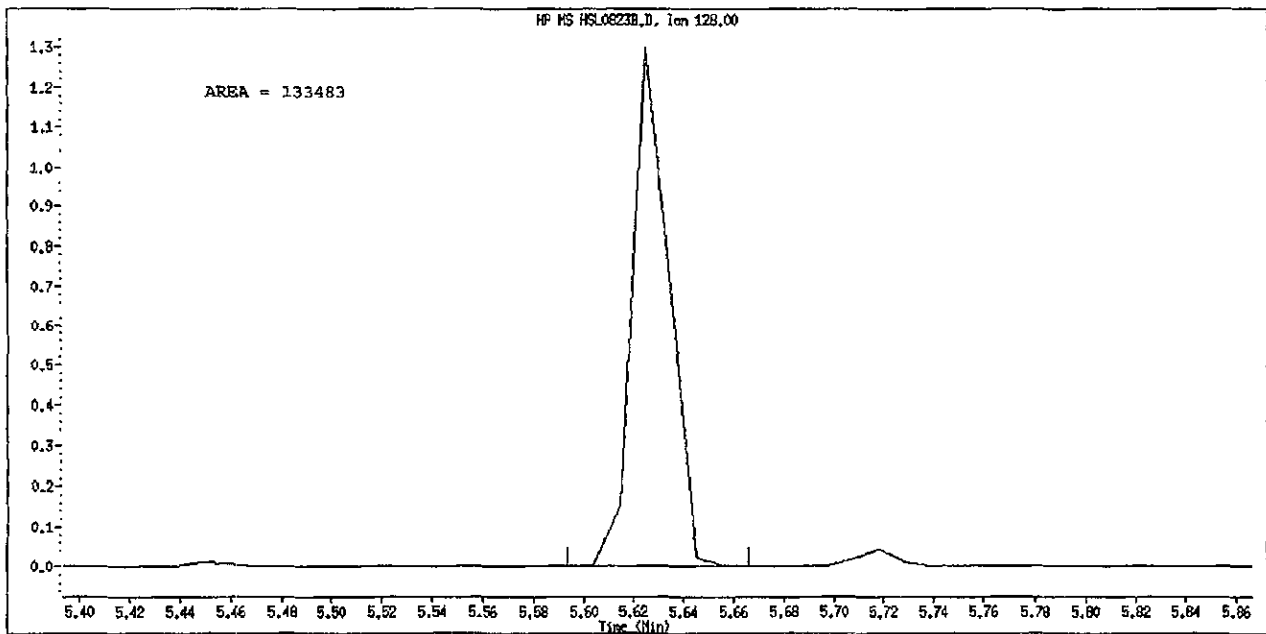
QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File Name: HSL0823B.D  
Inj. Date and Time: 23-AUG-2010 17:06  
Instrument ID: sv5.i  
Client ID: 0270F.M  
Compound Name: Naphthalene  
CAS #: 91-20-3  
Report Date: 08/24/2010



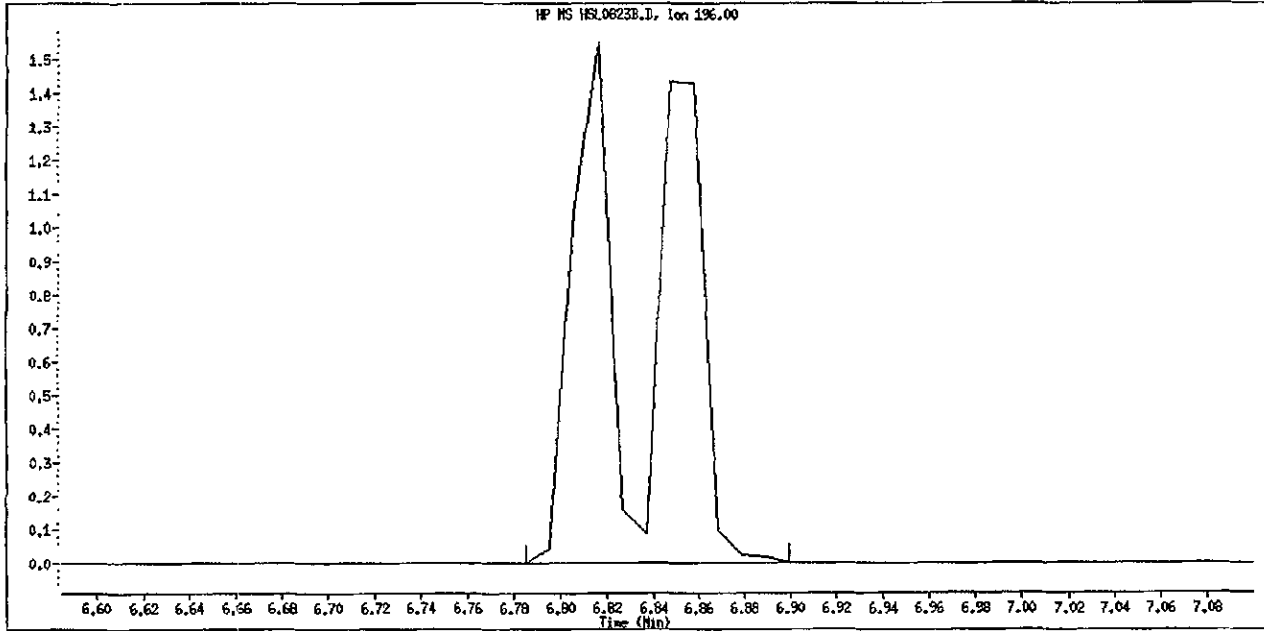
Original Integration



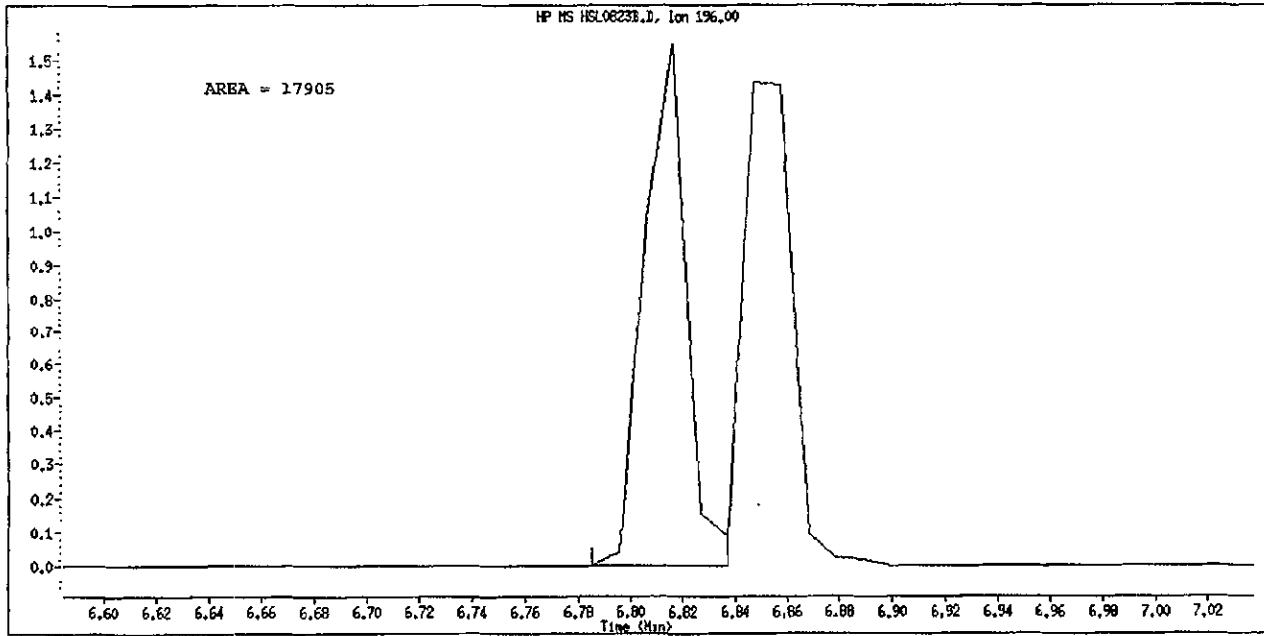
Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

Data File Name: HSL0823B.D  
Inj. Date and Time: 23-AUG-2010 17:06  
Instrument ID: sv5.1  
Client ID: 8270F.M  
Compound Name: 2,4,6-Trichlorophenol  
CAS #: 88-06-2  
Report Date: 08/24/2010



Original Integration

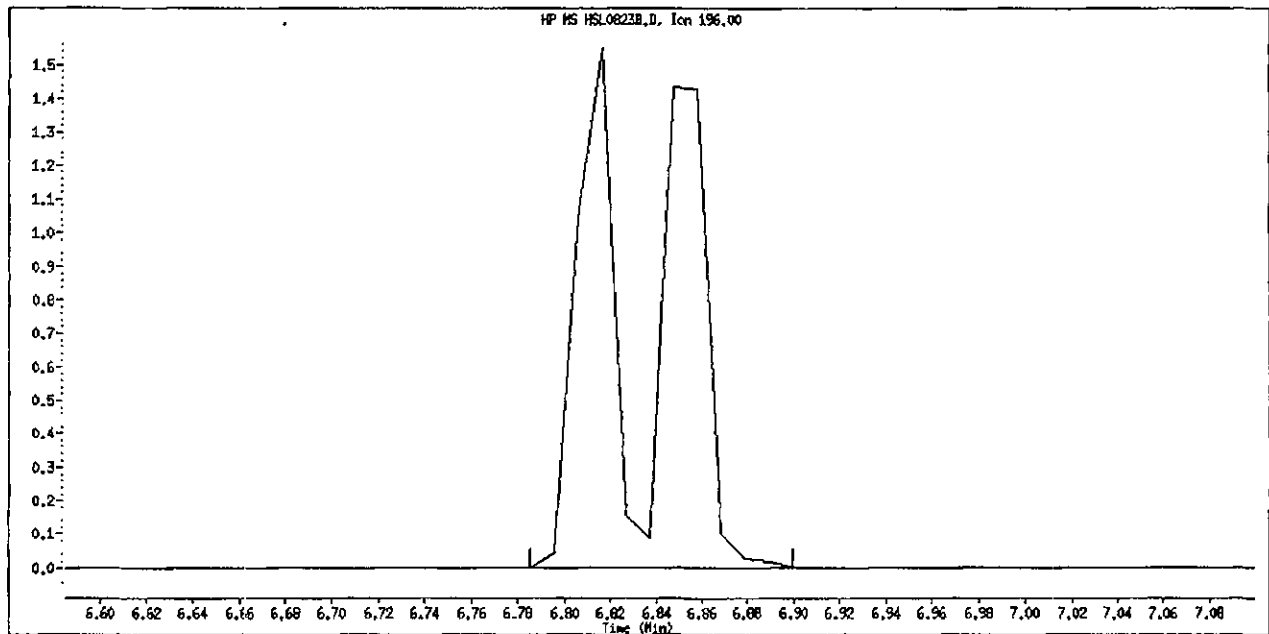


Manual Integration

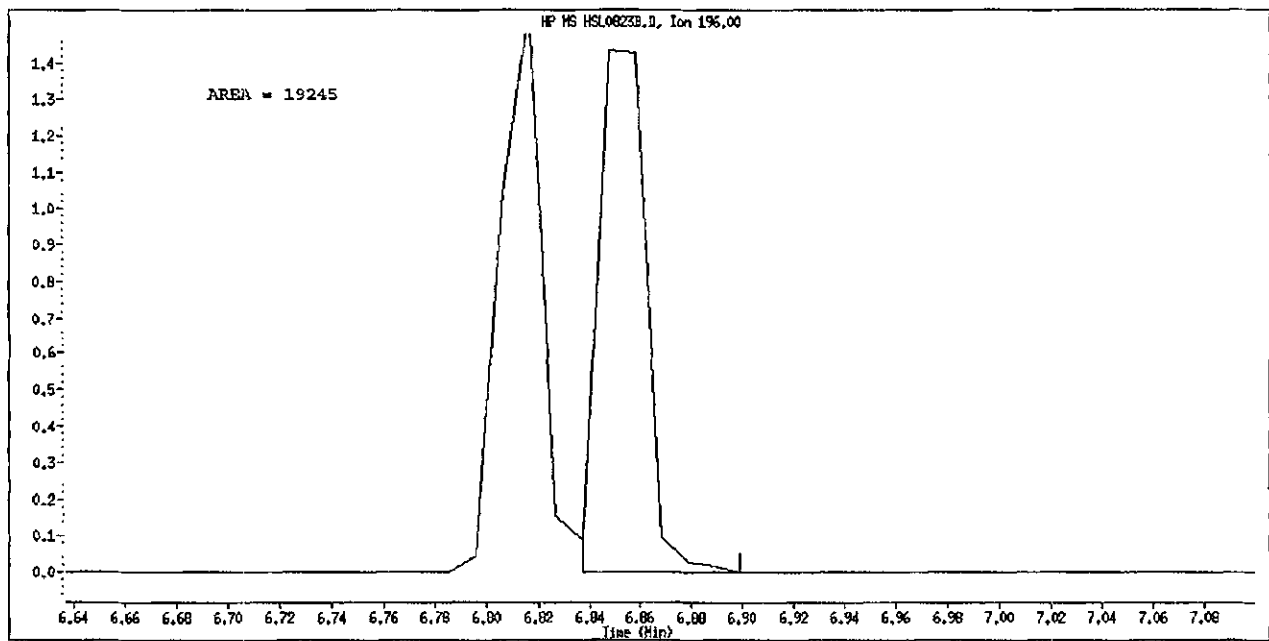
Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography



Data File Name: HSL0823B.D  
Inj. Date and Time: 23-AUG-2010 17:06  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: 2,4,5-Trichlorophenol  
CAS #: 95-95-4  
Report Date: 08/24/2010



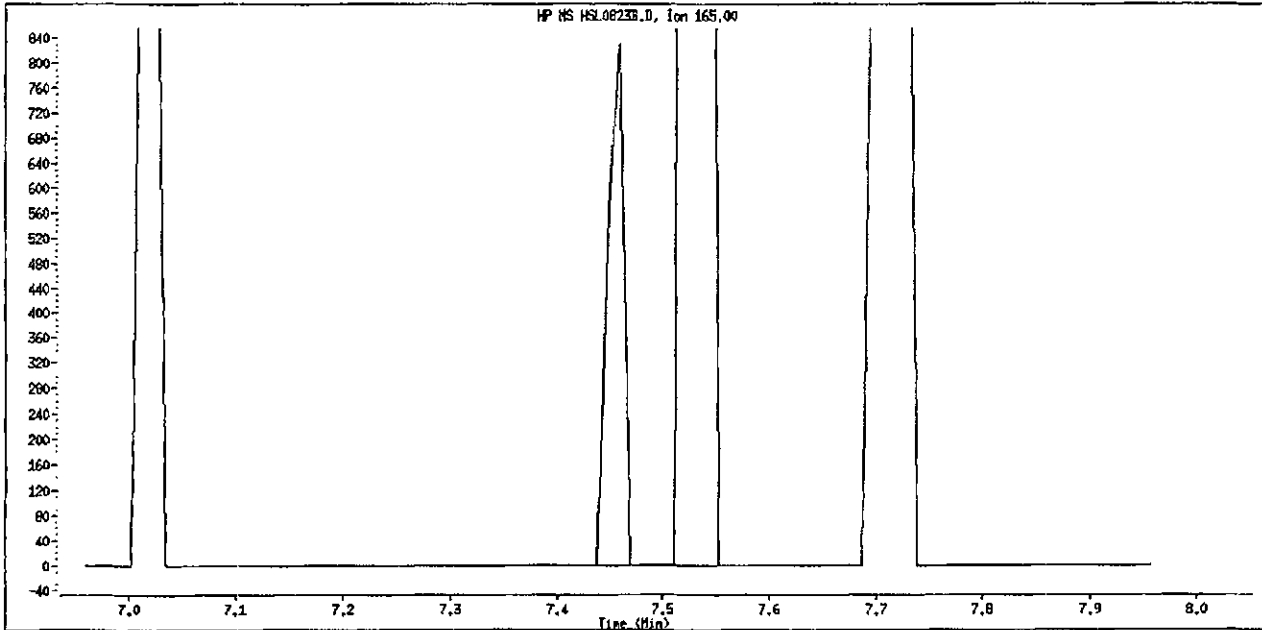
Original Integration



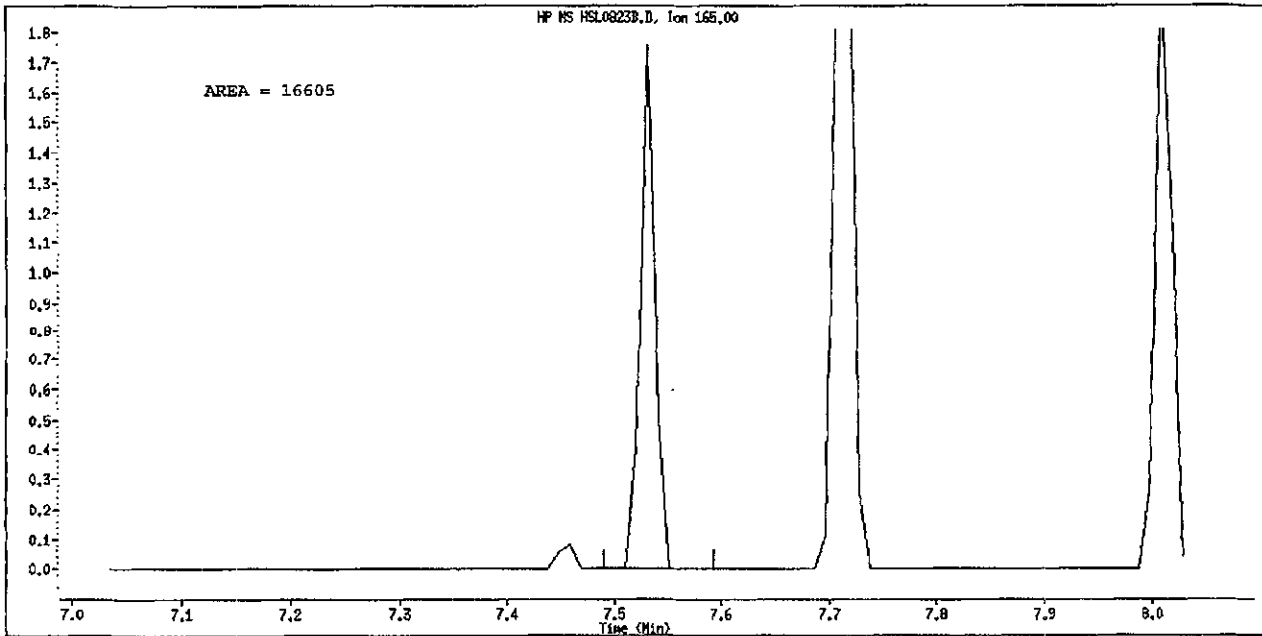
Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

Data File Name: HSL08238.D  
Inj. Date and Time: 23-AUG-2010 17:06  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: 2,6-Dinitrotoluene  
CAS #: 606-20-2  
Report Date: 08/24/2010



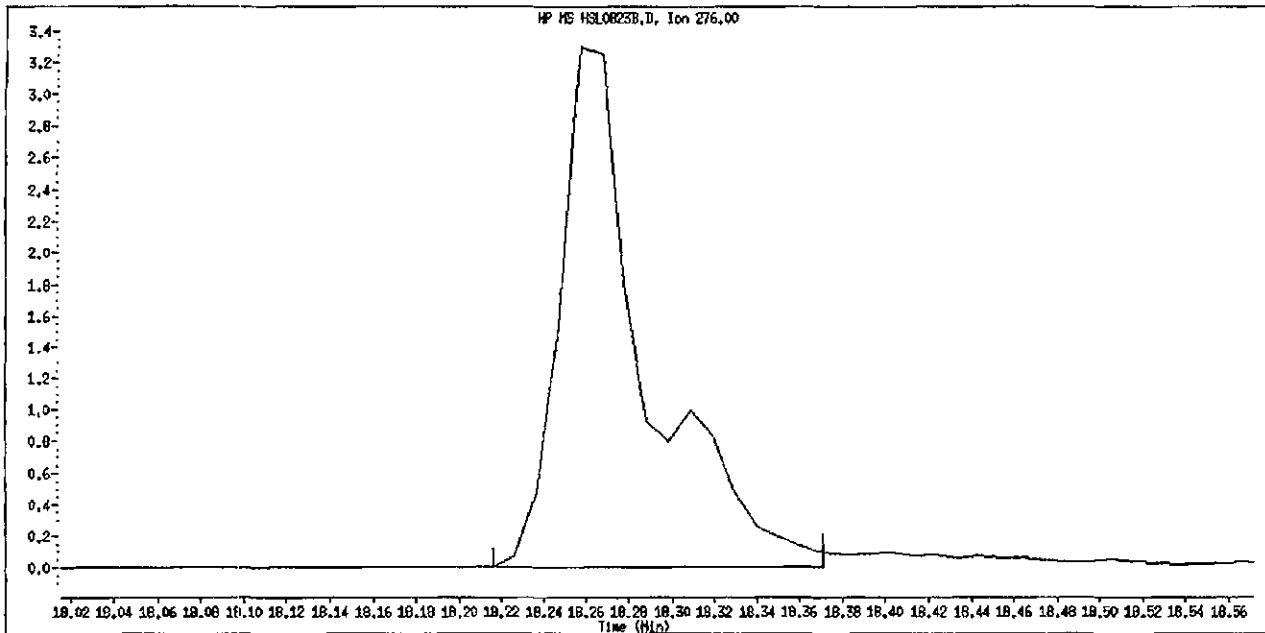
Original Integration



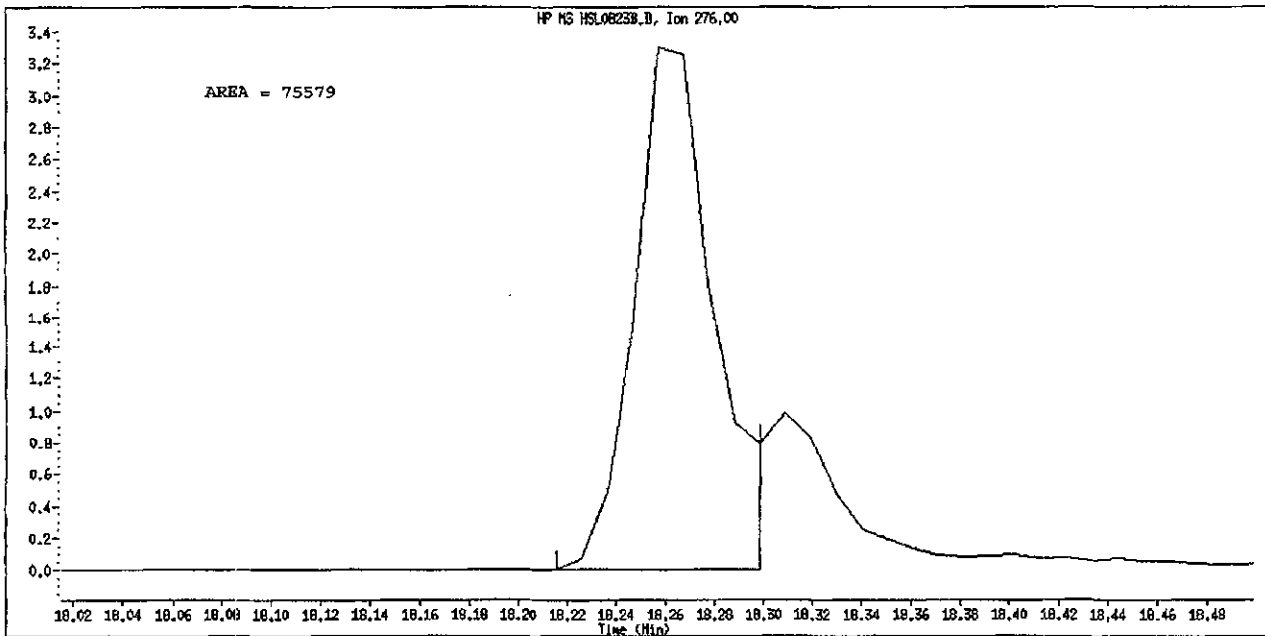
Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Unknown

Data File Name: HSL08238.D  
Inj. Date and Time: 23-AUG-2010 17:06  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 08/24/2010



Original Integration



Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

TestAmerica WestSacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823B.D  
 Lab Smp Id: HSL\_010 ug/ml CS-2 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 17:06  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL\_010 ug/ml CS-2;1;;2;;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0308;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 12:11 scotts Quant Type: ISTD  
 Cal Date : 17-AUG-2010 22:11 Cal File: AP90817B.D  
 Als bottle: 93 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT	SIG	AMOUNTS				ON-COL	
			MASS	RT	EXP RT	REL RT		RESPONSE
* 1 1,4-Dichlorobenzene-d4	152		4.184	4.184	(1.000)	109349	40.0000	
* 2 Naphthalene-d8	136		5.603	5.603	(1.000)	480513	40.0000	
* 3 Acenaphthene-d10	164		7.718	7.718	(1.000)	244234	40.0000	
* 4 Phenanthrene-d10	188		9.697	9.697	(1.000)	370407	40.0000	
* 5 Chrysene-d12	240		14.122	14.122	(1.000)	358849	40.0000	
* 6 Perylene-d12	264		16.516	16.516	(1.000)	356753	40.0000	
\$ 7 2-Fluorophenol	112		2.961	2.961	(0.708)	39885	10.0000	9.863
\$ 8 Phenol-d5	99		3.821	3.821	(0.913)	48973	10.0000	9.455
\$ 9 2-Chlorophenol-d4	132		3.976	3.976	(0.950)	43673	10.0000	9.996
\$ 10 1,2-Dichlorobenzene-d4	152		4.391	4.391	(1.050)	27916	10.0000	10.27
\$ 11 Nitrobenzene-d5	82		4.816	4.816	(0.859)	42329	10.0000	9.806
\$ 12 2-Fluorobiphenyl	172		6.909	6.909	(0.895)	78986	10.0000	10.22
\$ 13 2,4,6-Tribromophenol	330		8.743	8.743	(1.133)	8730	10.0000	9.137
\$ 14 Terphenyl-d14	244		12.339	12.339	(0.874)	70463	10.0000	10.15
15 N-Nitrosodimethylamine	74		1.935	1.935	(0.463)	28754	10.0000	10.33
16 Pyridine	79		1.966	1.966	(0.470)	43595	10.0000	9.454
23 Aniline	93		3.883	3.883	(0.928)	62371	10.0000	9.616
24 Phenol	94		3.831	3.831	(0.916)	52850	10.0000	9.557
26 Bis(2-chloroethyl)ether	93		3.945	3.945	(0.943)	42799	10.0000	10.26
27 2-Chlorophenol	128		3.997	3.997	(0.955)	42655	10.0000	9.874
28 1,3-Dichlorobenzene	146		4.153	4.153	(0.993)	47292	10.0000	9.923
29 1,4-Dichlorobenzene	146		4.204	4.204	(1.005)	47547	10.0000	9.849
30 Benzyl Alcohol	108		4.339	4.339	(1.037)	29205	10.0000	9.856
31 1,2-Dichlorobenzene	146		4.401	4.401	(1.052)	45728	10.0000	10.03
32 2-Methylphenol	108		4.474	4.474	(1.069)	38900	10.0000	9.556
33 2,2'-oxybis(1-Chloropropane)	45		4.515	4.515	(1.079)	78149	10.0000	9.838
34 4-Methylphenol	108		4.629	4.629	(1.106)	42510	10.0000	9.810
36 Hexachloroethane	117		4.733	4.733	(1.131)	16502	10.0000	9.703
37 N-Nitrosodipropylamine	70		4.671	4.671	(1.116)	29691	10.0000	9.713
42 Nitrobenzene	77		4.837	4.837	(0.863)	41087	10.0000	9.614
44 Isophorone	82		5.096	5.096	(0.909)	76738	10.0000	9.458
45 2-Nitrophenol	139		5.199	5.199	(0.928)	22181	10.0000	9.651
46 2,4-Dimethylphenol	107		5.230	5.230	(0.933)	41193	10.0000	9.561

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.355	5.355	(0.956)	49723	10.0000	10.31
49 2,4-Dichlorophenol	162	5.448	5.448	(0.972)	30918	10.0000	9.845
50 Benzoic Acid	122	5.293	5.293	(0.945)	21115	10.0000	10.64
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	34305	10.0000	10.09
52 Naphthalene	128	5.624	5.624	(1.004)	137847	10.0000	10.21
54 4-Chloroaniline	127	5.624	5.624	(1.004)	15489	10.0000	9.439
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	16493	10.0000	10.24
60 4-Chloro-3-Methylphenol	107	6.287	6.287	(1.122)	33857	10.0000	9.277
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	80061	10.0000	9.806
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	18765	10.0000	10.03
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	36599	10.0000	13.95
70 2,4,5-Trichlorophenol	196	6.816	6.816	(0.883)	36599	10.0000	13.84
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	67736	10.0000	9.943
73 2-Nitroaniline	65	7.189	7.189	(0.932)	21886	10.0000	9.404
76 Dimethylphthalate	163	7.458	7.458	(0.966)	77312	10.0000	9.804
77 Acenaphthylene	152	7.521	7.521	(0.974)	117976	10.0000	9.867
79 2,6-Dinitrotoluene	165	7.718	7.718	(1.000)	31676	10.0000	16.19
80 3-Nitroaniline	138	7.686	7.686	(0.996)	22838	10.0000	9.767
81 Acenaphthene	153	7.749	7.749	(1.004)	77159	10.0000	10.14
82 2,4-Dinitrophenol	184	7.811	7.811	(1.012)	7808	10.0000	10.55
83 Dibenzofuran	168	7.946	7.946	(1.030)	99974	10.0000	9.951
84 4-Nitrophenol	109	7.894	7.894	(1.023)	10218	10.0000	9.793
86 2,4-Dinitrotoluene	165	8.008	8.008	(1.038)	21764	10.0000	10.40
91 Fluorene	166	8.391	8.391	(1.087)	83101	10.0000	10.09
92 Diethylphthalate	149	8.350	8.350	(1.082)	81986	10.0000	9.919
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	34527	10.0000	10.21
94 4-Nitroaniline	138	8.464	8.464	(1.097)	21157	10.0000	9.158
97 4,6-Dinitro-2-methylphenol	198	8.536	8.536	(0.880)	9956	10.0000	10.22
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	69767	11.7000	12.03
100 Azobenzene	77	8.609	8.609	(0.888)	80133	10.0000	9.793
101 4-Bromophenyl-phenylether	248	9.065	9.065	(0.935)	18282	10.0000	10.29
108 Hexachlorobenzene	284	9.262	9.262	(0.955)	20024	10.0000	10.42
110 Pentachlorophenol	266	9.521	9.521	(0.982)	10629	10.0000	8.932
114 Phenanthrene	178	9.728	9.728	(1.003)	118548	10.0000	10.22
115 Anthracene	178	9.790	9.790	(1.010)	113533	10.0000	9.729
118 Carbazole	167	10.060	10.060	(1.037)	107939	10.0000	9.899
120 Di-n-Butylphthalate	149	10.754	10.754	(1.109)	122649	10.0000	9.289
126 Fluoranthene	202	11.624	11.624	(1.199)	100507	10.0000	9.590
127 Benzidine	184	11.883	11.883	(0.841)	68288	10.0000	10.01
128 Pyrene	202	11.987	11.987	(0.849)	110409	10.0000	9.910
134 3,3'-dimethylbenzidine	212	13.189	13.189	(0.934)	57609	10.0000	10.46
136 Butylbenzylphthalate	149	13.303	13.303	(0.942)	55168	10.0000	9.569
138 Benzo(a)Anthracene	228	14.091	14.091	(0.998)	92935	10.0000	9.796
139 Chrysene	228	14.163	14.163	(1.003)	98930	10.0000	10.08
140 3,3'-Dichlorobenzidine	252	14.132	14.132	(1.001)	32203	10.0000	9.338
141 bis(2-ethylhexyl) Phthalate	149	14.433	14.433	(1.022)	74784	10.0000	9.383
142 Di-n-octylphthalate	149	15.490	15.490	(1.097)	113249	10.0000	10.16
144 Benzo(b)fluoranthene	252	15.925	15.925	(0.964)	76293	10.0000	9.008
145 Benzo(k)fluoranthene	252	15.966	15.966	(0.967)	99665	10.0000	10.04
147 Benzo(e)pyrene	252	16.350	16.350	(0.990)	79673	10.0000	9.489
148 Benzo(a)pyrene	252	16.433	16.433	(0.995)	86294	10.0000	9.311
151 Indeno(1,2,3-cd)pyrene	276	18.257	18.257	(1.105)	93807	10.0000	10.22
152 Dibenzo(a,h)anthracene	278	18.309	18.309	(1.109)	80379	10.0000	9.560
153 Benzo(g,h,i)perylene	276	18.733	18.733	(1.134)	86476	10.0000	9.633

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS					CAL-AMT	ON-COL
-----	----	----	-----	-----	-----	-----	
M 162 benzo b,k Fluoranthene Totals	252				175958	10.0000	9.563 (A)

QC Flag Legend

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

TestAmerica WestSacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL0823B.D  
 Lab Smp Id: HSL\_010 ug/ml CS-2  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0308;0;8270F.M

Calibration Date: 23-AUG-2010  
 Calibration Time: 16:14  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

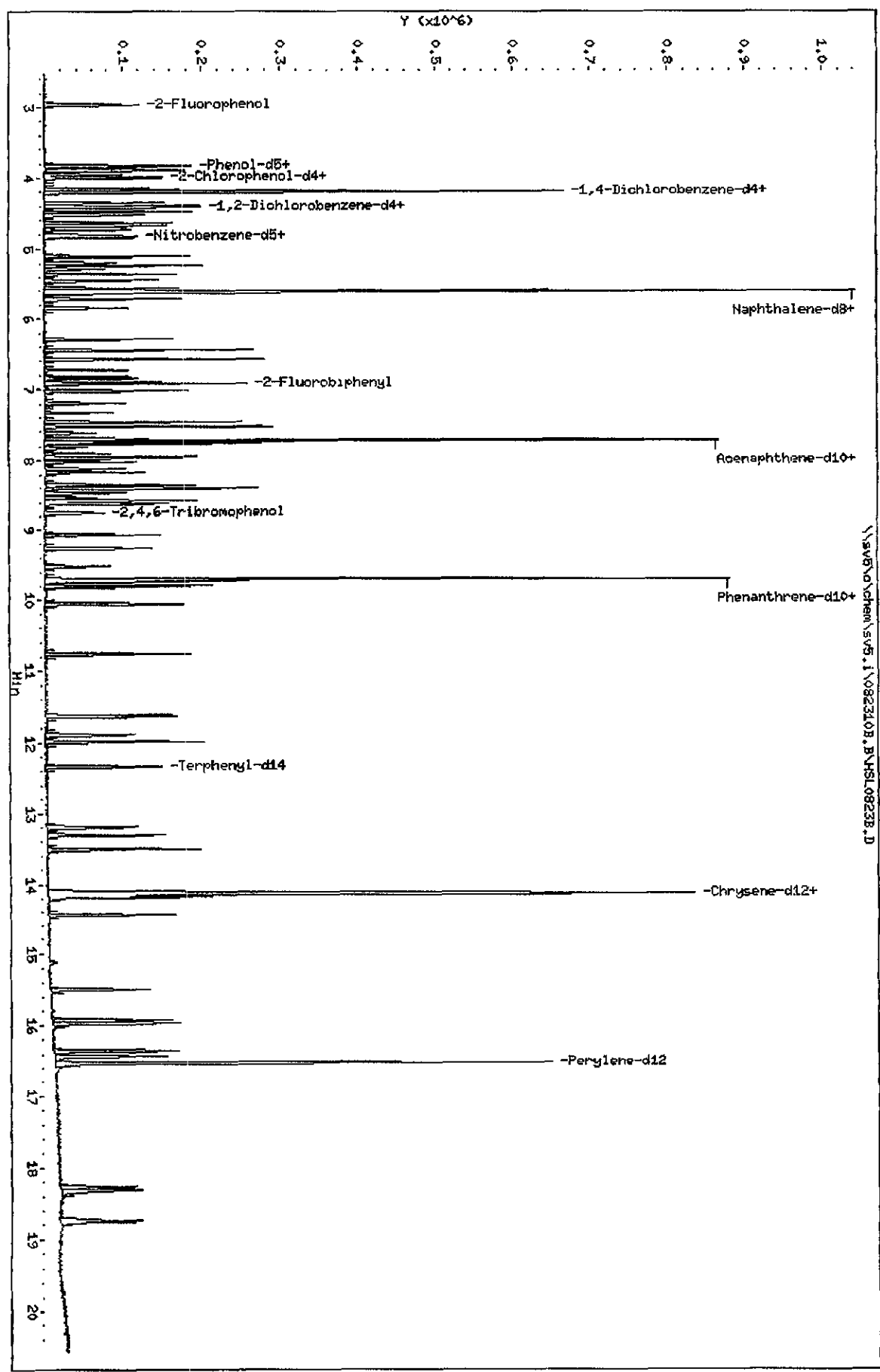
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	109349	-2.71
2 Naphthalene-d8	494728	247364	989456	480513	-2.87
3 Acenaphthene-d10	264752	132376	529504	244234	-7.75
4 Phenanthrene-d10	415811	207906	831622	370407	-10.92
5 Chrysene-d12	431516	215758	863032	358849	-16.84
6 Perylene-d12	416460	208230	832920	356753	-14.34

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	-0.00
2 Naphthalene-d8	5.60	5.10	6.10	5.60	-0.00
3 Acenaphthene-d10	7.72	7.22	8.22	7.72	-0.00
4 Phenanthrene-d10	9.70	9.20	10.20	9.70	-0.00
5 Chrysene-d12	14.13	13.63	14.63	14.12	-0.07
6 Perylene-d12	16.53	16.03	17.03	16.52	-0.06

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

Data File: \\svb\chem\sv5.1\082310B.B\HSL0823B.D  
 Date: 23-AUG-2010 17:06  
 Client ID: 8270F.H  
 Sample Info: HSL\_010 ug/ml CS-2;1;12;1;4  
 Column phase:

Instrument: sv5.1  
 Operator: KT  
 Column diameter: 2.00





TestAmerica WestSacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823C.D  
 Lab Smp Id: HSL 020 ug/ml CS-3 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 17:32  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 020 ug/ml CS-3;1;;3;;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0309;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 15:55 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 22:11 Cal File: AP90817B.D  
 Als bottle: 94 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4		152	4.184	4.184	(1.000)	109250	40.0000	
* 2 Naphthalene-d8		136	5.604	5.604	(1.000)	505594	40.0000	
* 3 Acenaphthene-d10		164	7.718	7.718	(1.000)	263989	40.0000	
* 4 Phenanthrene-d10		188	9.697	9.697	(1.000)	403871	40.0000	
* 5 Chrysene-d12		240	14.122	14.122	(1.000)	393840	40.0000	
* 6 Perylene-d12		264	16.516	16.516	(1.000)	384719	40.0000	
\$ 7 2-Fluorophenol		112	2.961	2.961	(0.708)	81001	20.0000	20.25
\$ 8 Phenol-d5		99	3.821	3.821	(0.913)	105822	20.0000	20.52
\$ 9 2-Chlorophenol-d4		132	3.977	3.977	(0.950)	87371	20.0000	20.09
\$ 10 1,2-Dichlorobenzene-d4		152	4.391	4.391	(1.050)	55793	20.0000	20.60
\$ 11 Nitrobenzene-d5		82	4.816	4.816	(0.859)	88730	20.0000	20.00
\$ 12 2-Fluorobiphenyl		172	6.909	6.909	(0.895)	163735	20.0000	19.49
\$ 13 2,4,6-Tribromophenol		330	8.744	8.744	(1.133)	19280	20.0000	19.33
\$ 14 Terphenyl-d14		244	12.340	12.340	(0.874)	148459	20.0000	19.13
15 N-Nitrosodimethylamine		74	1.935	1.935	(0.463)	54601	20.0000	19.60
16 Pyridine		79	1.956	1.956	(0.468)	95567	20.0000	21.00
23 Aniline		93	3.883	3.883	(0.928)	129647	20.0000	19.98
24 Phenol		94	3.832	3.832	(0.916)	109461	20.0000	20.02
26 Bis(2-chloroethyl) ether		93	3.946	3.946	(0.943)	84734	20.0000	20.19
27 2-Chlorophenol		128	3.997	3.997	(0.955)	88147	20.0000	20.43
28 1,3-Dichlorobenzene		146	4.153	4.153	(0.993)	98532	20.0000	20.81
29 1,4-Dichlorobenzene		146	4.205	4.205	(1.005)	100072	20.0000	20.79
30 Benzyl Alcohol		108	4.339	4.339	(1.037)	58005	20.0000	19.79
31 1,2-Dichlorobenzene		146	4.402	4.402	(1.052)	93441	20.0000	20.60
32 2-Methylphenol		108	4.474	4.474	(1.069)	81370	20.0000	19.98
33 2,2'-oxybis(1-Chloropropane)		45	4.516	4.516	(1.079)	161451	20.0000	19.50
34 4-Methylphenol		108	4.630	4.630	(1.106)	87660	20.0000	20.40
36 Hexachloroethane		117	4.733	4.733	(1.131)	34316	20.0000	20.48
37 N-Nitrosodipropylamine		70	4.671	4.671	(1.116)	60103	20.0000	19.53 (M)
42 Nitrobenzene		77	4.837	4.837	(0.863)	87881	20.0000	19.69
44 Isophorone		82	5.096	5.096	(0.909)	164200	20.0000	19.04
45 2-Nitrophenol		139	5.199	5.199	(0.928)	45834	20.0000	20.03
46 2,4-Dimethylphenol		107	5.231	5.231	(0.933)	89298	20.0000	19.74

*Handwritten signature:* SWS/24/10

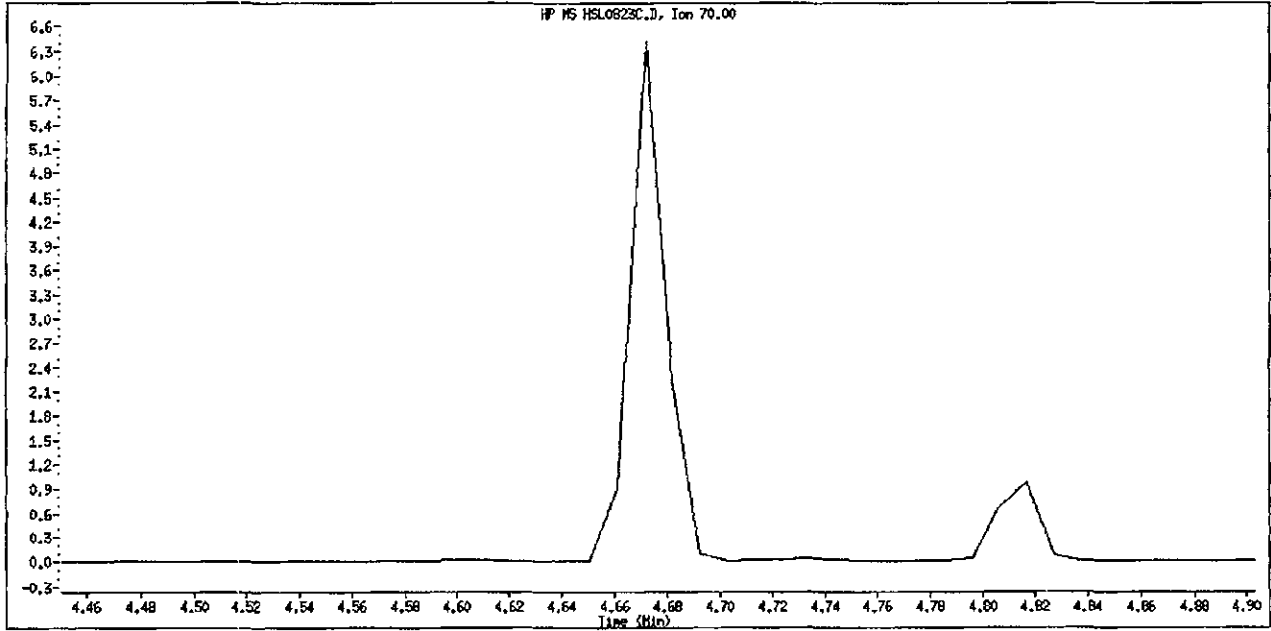
Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane		93	5.355	5.355	(0.956)	101820	20.0000	19.97
49 2,4-Dichlorophenol		162	5.448	5.448	(0.972)	63764	20.0000	19.48
50 Benzoic Acid		122	5.303	5.303	(0.946)	46083	20.0000	22.03
51 1,2,4-Trichlorobenzene		180	5.562	5.562	(0.993)	70657	20.0000	19.74
52 Naphthalene		128	5.624	5.624	(1.004)	278775	20.0000	19.83
54 4-Chloroaniline		127	5.718	5.718	(1.020)	105306	20.0000	21.04 (H)
57 Hexachlorobutadiene		225	5.852	5.852	(1.044)	32522	20.0000	19.36
60 4-Chloro-3-Methylphenol		107	6.288	6.288	(1.122)	74197	20.0000	19.42
63 2-Methylnaphthalene		142	6.443	6.443	(1.150)	168501	20.0000	19.42
66 Hexachlorocyclopentadiene		237	6.723	6.723	(0.871)	38060	20.0000	19.89
69 2,4,6-Trichlorophenol		196	6.816	6.816	(0.883)	39229	20.0000	20.04 (M)
70 2,4,5-Trichlorophenol		196	6.847	6.847	(0.887)	40962	20.0000	18.94 (M)
71 2-Chloronaphthalene		162	7.023	7.023	(0.910)	144000	20.0000	19.52
73 2-Nitroaniline		65	7.189	7.189	(0.932)	47152	20.0000	19.44
76 Dimethylphthalate		163	7.459	7.459	(0.966)	167525	20.0000	19.45
77 Acenaphthylene		152	7.521	7.521	(0.974)	253914	20.0000	19.64
79 2,6-Dinitrotoluene		165	7.531	7.531	(0.976)	36775	20.0000	19.67 (QMH)
80 3-Nitroaniline		138	7.687	7.687	(0.996)	49049	20.0000	19.69
81 Acenaphthene		153	7.749	7.749	(1.004)	162598	20.0000	19.80
82 2,4-Dinitrophenol		184	7.811	7.811	(1.012)	19504	20.0000	22.88
83 Dibenzofuran		168	7.946	7.946	(1.030)	213749	20.0000	19.67
84 4-Nitrophenol		109	7.894	7.894	(1.023)	22106	20.0000	20.12
86 2,4-Dinitrotoluene		165	8.008	8.008	(1.038)	48451	20.0000	20.64
91 Fluorene		166	8.391	8.391	(1.087)	176789	20.0000	19.99
92 Diethylphthalate		149	8.350	8.350	(1.082)	171646	20.0000	19.02
93 4-Chlorophenyl-phenylether		204	8.412	8.412	(1.090)	71747	20.0000	19.54
94 4-Nitroaniline		138	8.464	8.464	(1.097)	48680	20.0000	20.02
97 4,6-Dinitro-2-methylphenol		198	8.536	8.536	(0.880)	23755	20.0000	21.17
98 N-Nitrosodiphenylamine		169	8.578	8.578	(0.885)	144502	23.4000	22.92
100 Azobenzene		77	8.609	8.609	(0.888)	175604	20.0000	19.31
101 4-Bromophenyl-phenylether		248	9.065	9.065	(0.935)	37921	20.0000	19.86
108 Hexachlorobenzene		284	9.262	9.262	(0.955)	41136	20.0000	19.76
110 Pentachlorophenol		266	9.521	9.521	(0.982)	23021	20.0000	18.71
114 Phenanthrene		178	9.728	9.728	(1.003)	249639	20.0000	19.66
115 Anthracene		178	9.790	9.790	(1.010)	254535	20.0000	20.12
118 Carbazole		167	10.060	10.060	(1.037)	236965	20.0000	20.06
120 Di-n-Butylphthalate		149	10.754	10.754	(1.109)	273588	20.0000	19.36
126 Fluoranthene		202	11.625	11.625	(1.199)	220458	20.0000	19.66
127 Benzidine		184	11.894	11.894	(0.842)	158121	20.0000	21.25
128 Pyrene		202	11.987	11.987	(0.849)	243102	20.0000	19.38
134 3,3'-dimethylbenzidine		212	13.189	13.189	(0.934)	130478	20.0000	20.57
136 Butylbenzylphthalate		149	13.303	13.303	(0.942)	121530	20.0000	19.18
138 Benzo(a)Anthracene		228	14.101	14.101	(0.999)	200182	20.0000	19.19
139 Chrysene		228	14.164	14.164	(1.003)	215801	20.0000	19.89
140 3,3'-Dichlorobenzidine		252	14.132	14.132	(1.001)	74402	20.0000	20.24
141 bis(2-ethylhexyl)Phthalate		149	14.433	14.433	(1.022)	165990	20.0000	19.20
142 Di-n-octylphthalate		149	15.490	15.490	(1.097)	262325	20.0000	20.67
144 Benzo(b)fluoranthene		252	15.925	15.925	(0.964)	168822	20.0000	19.24
145 Benzo(k)fluoranthene		252	15.967	15.967	(0.967)	217724	20.0000	19.58
147 Benzo(e)pyrene		252	16.350	16.350	(0.990)	176945	20.0000	19.48
148 Benzo(a)pyrene		252	16.433	16.433	(0.995)	204334	20.0000	20.64
151 Indeno(1,2,3-cd)pyrene		276	18.267	18.267	(1.106)	163773	20.0000	20.32 (M)
152 Dibenzo(a,h)anthracene		278	18.309	18.309	(1.109)	169908	20.0000	19.14
153 Benzo(g,h,i)perylene		276	18.734	18.734	(1.134)	191908	20.0000	20.18

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
=====	====		====	=====	=====	=====	=====	=====
M 162 benzo b,k Fluoranthene Totals	252					386546	20.0000	

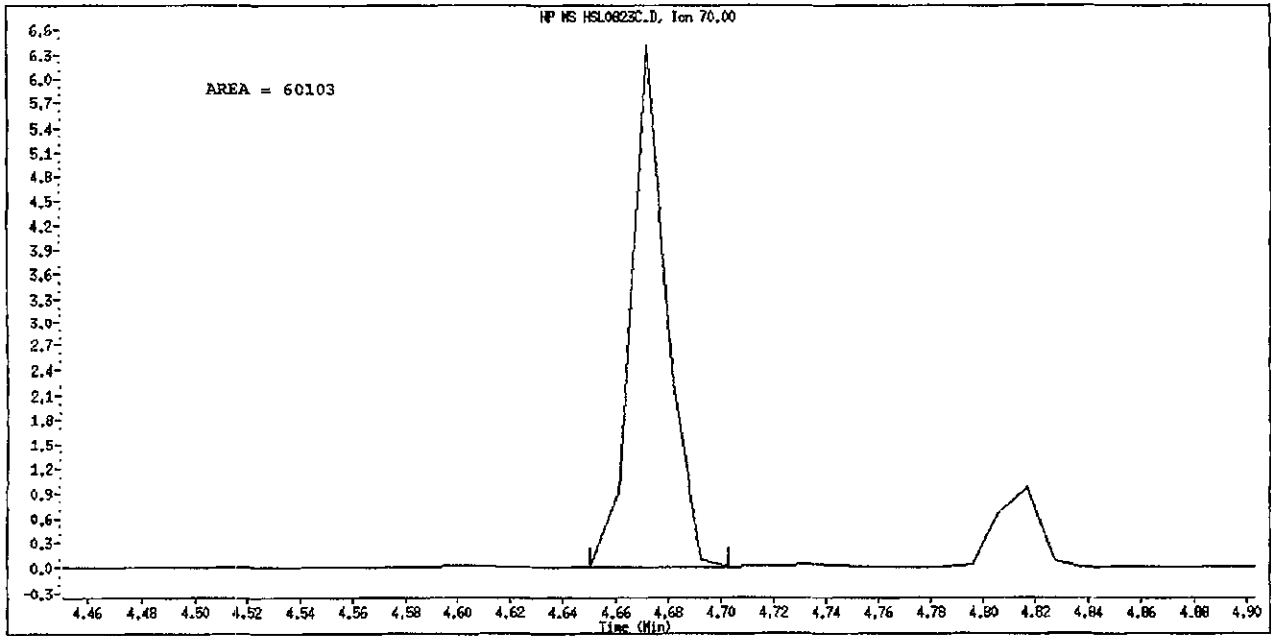
QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File Name: HSL0823C.D  
Inj. Date and Time: 23-AUG-2010 17:32  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: N-Nitrosodipropylamine  
CAS #: 621-64-7  
Report Date: 08/24/2010



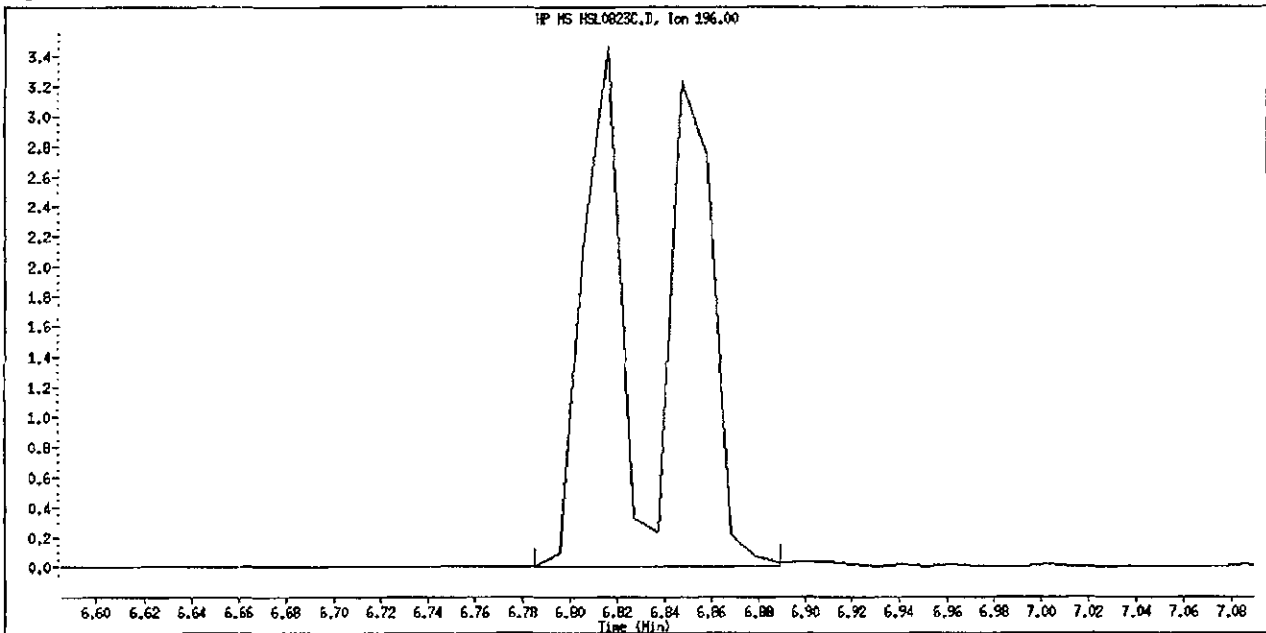
Original Integration



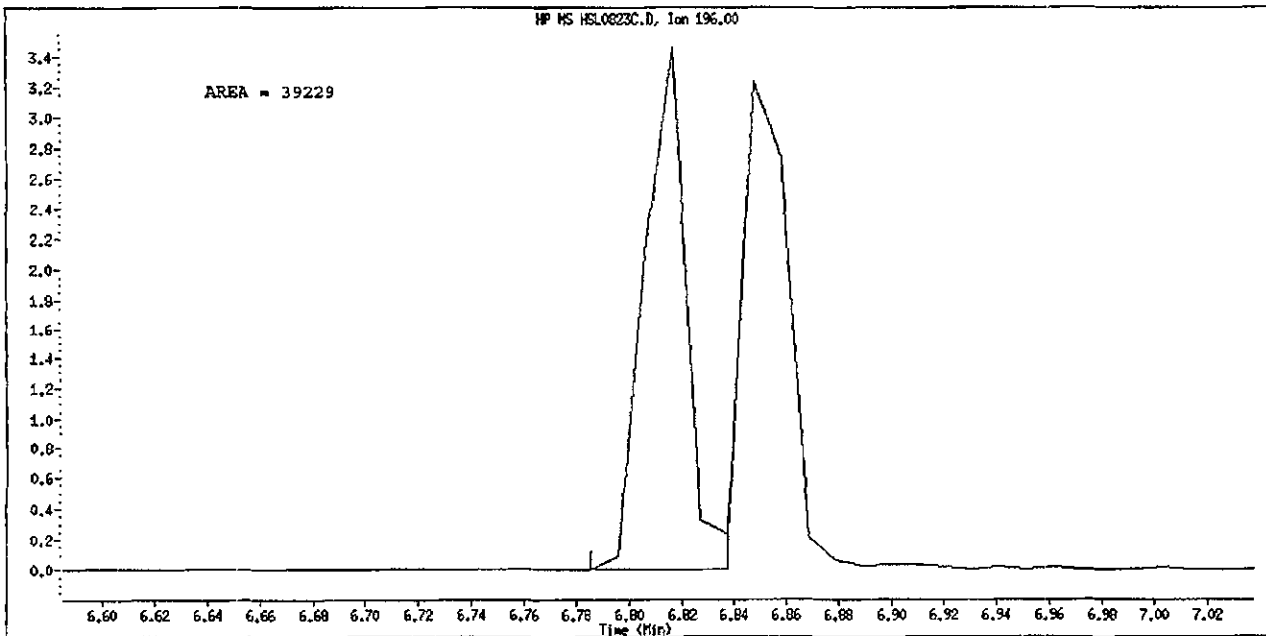
Manual Integration

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

Data File Name: HSL0823C.D  
Inj. Date and Time: 23-AUG-2010 17:32  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: 2,4,6-Trichlorophenol  
CAS #: 88-06-2  
Report Date: 08/24/2010



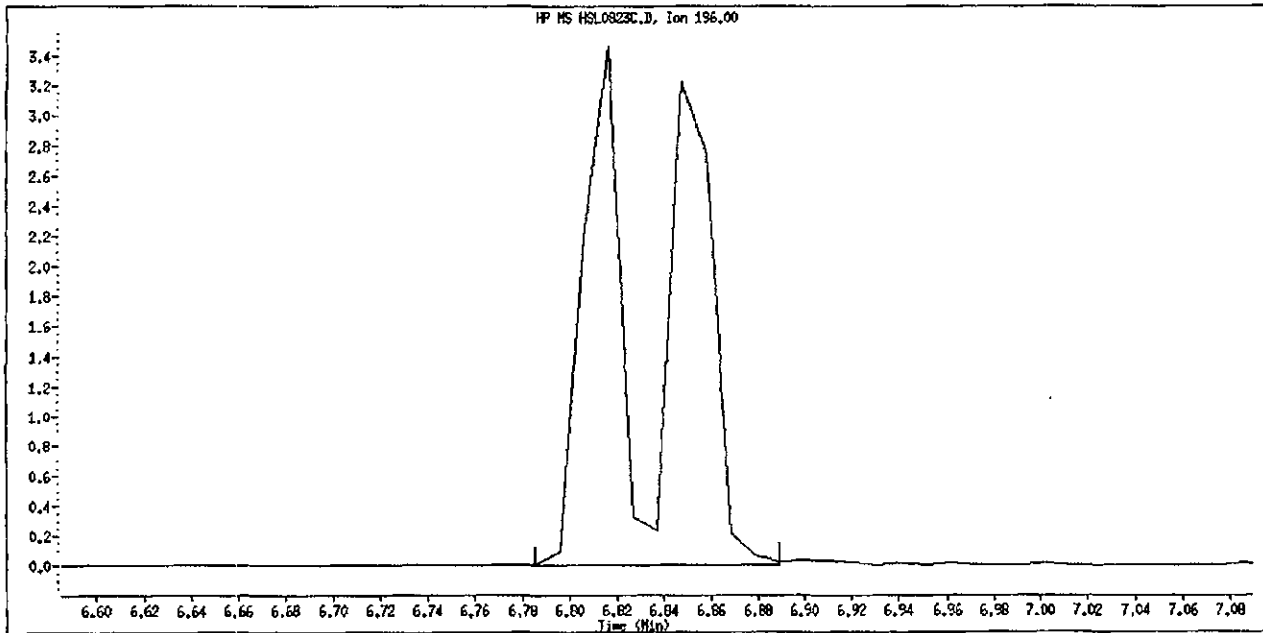
Original Integration



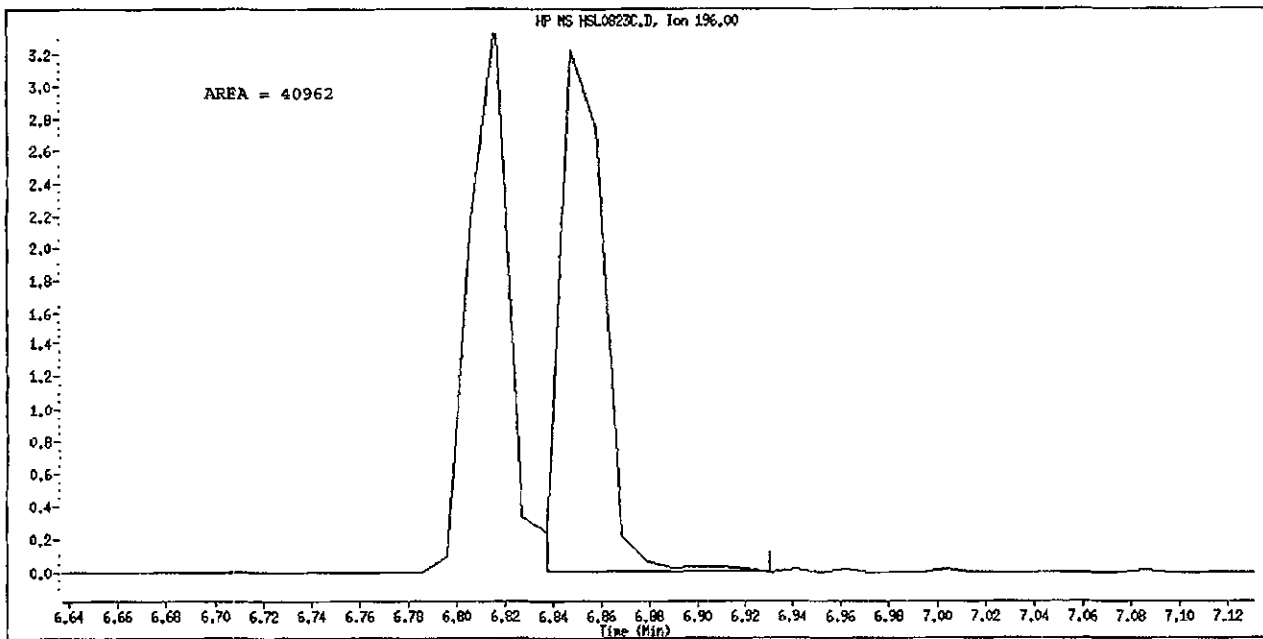
Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

Data File Name: HSL0823C.D  
Inj. Date and Time: 23-AUG-2010 17:32  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: 2,4,5-Trichlorophenol  
CAS #: 95-95-4  
Report Date: 08/24/2010



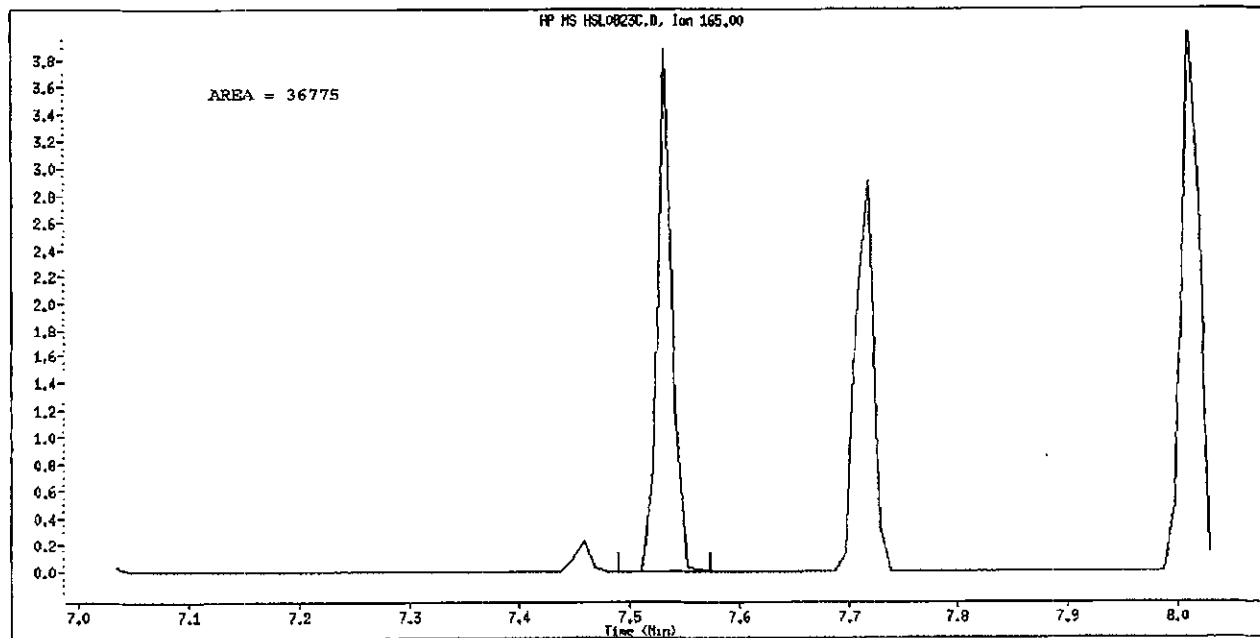
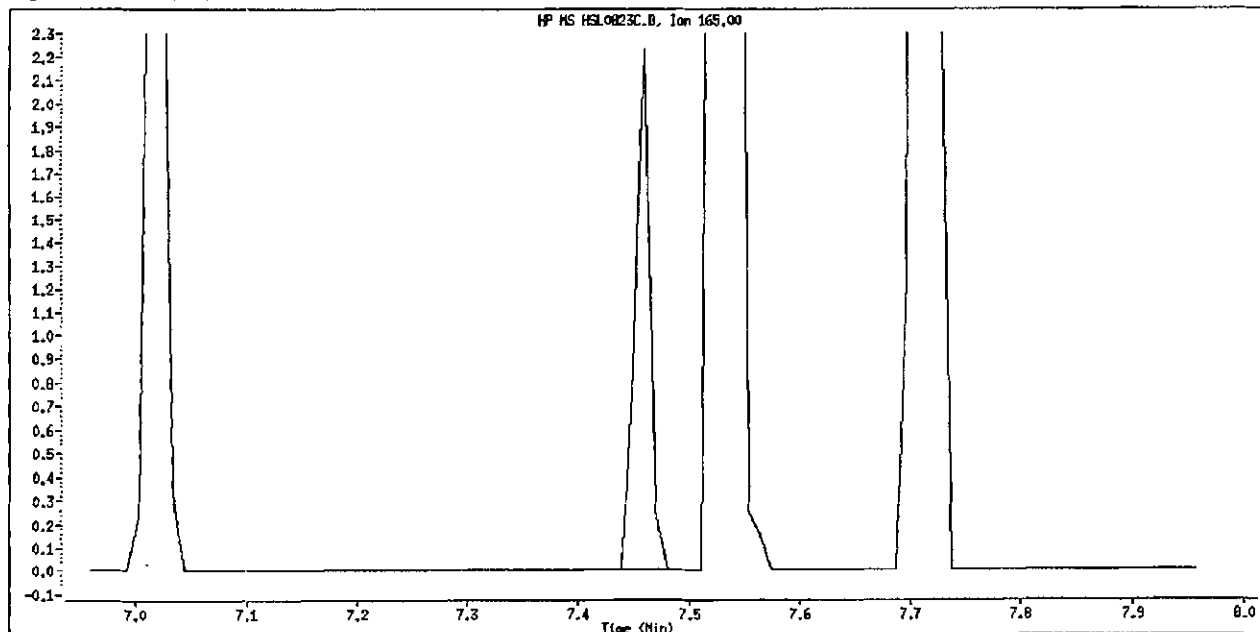
Original Integration



Manual Integration

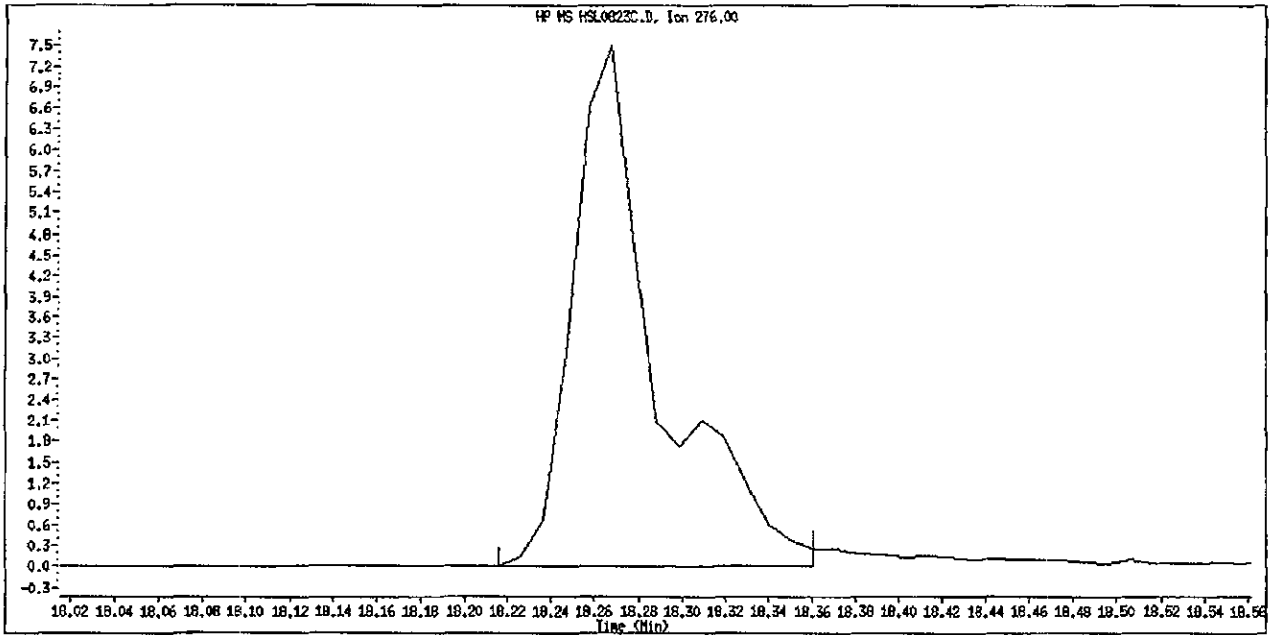
Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

Data File Name: HSL0823C.D  
Inj. Date and Time: 23-AUG-2010 17:32  
Instrument ID: sv5.1  
Client ID: 8270F.M  
Compound Name: 2,6-Dinitrotoluene  
CAS #: 606-20-2  
Report Date: 08/24/2010

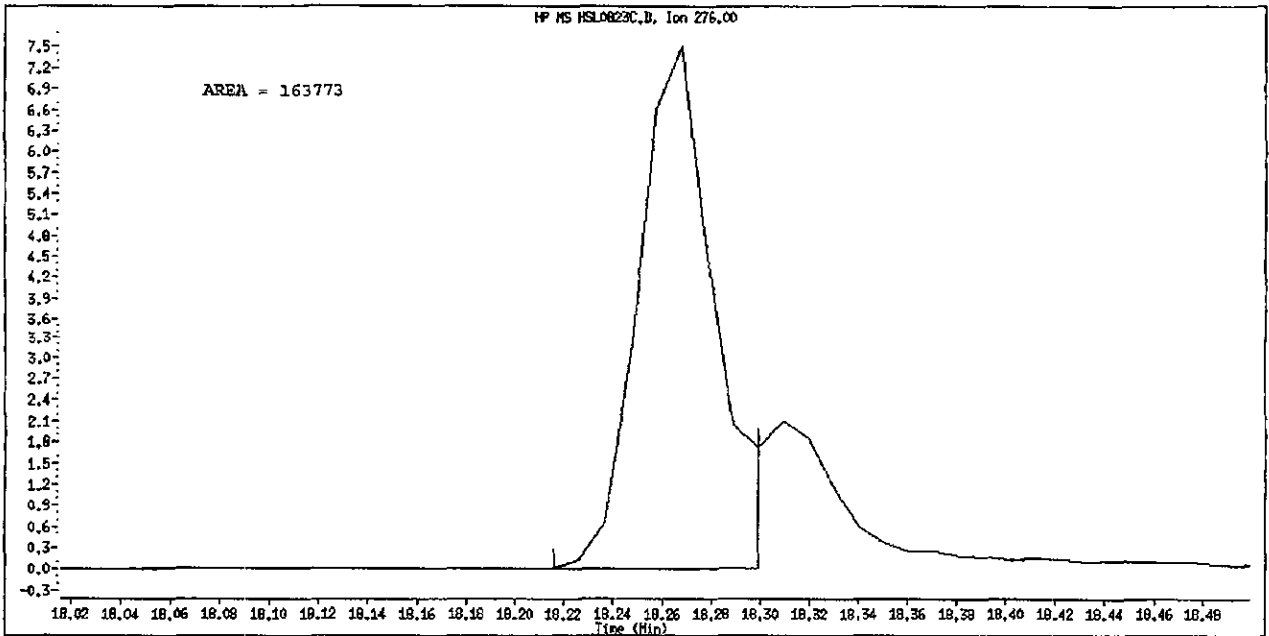


Manually Integrated By: scottsx  
Manual Integration Reason: ~~Unknown~~ *Wrong Peak.* *by 8/24/10*

Data File Name: HSL0823C.D  
Inj. Date and Time: 23-AUG-2010 17:32  
Instrument ID: sv5.1  
Client ID: 8270F.M  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 08/24/2010



Original Integration



Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography



TestAmerica WestSacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823C.D  
 Lab Smp Id: HSL 020 ug/ml CS-3 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 17:32  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 020 ug/ml CS-3;1;;3;;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0309;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 12:12 scotts Quant Type: ISTD  
 Cal Date : 17-AUG-2010 22:37 Cal File: AP90817C.D  
 Als bottle: 94 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		
						CAL-AMT ( NG)	ON-COL ( NG)	
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	109250	40.0000		
* 2 Napthalene-d8	136	5.604	5.604	(1.000)	505594	40.0000		
* 3 Acenaphthene-d10	164	7.718	7.718	(1.000)	263989	40.0000		
* 4 Phenanthrene-d10	188	9.697	9.697	(1.000)	403871	40.0000		
* 5 Chrysene-d12	240	14.122	14.122	(1.000)	393840	40.0000		
* 6 Perylene-d12	264	16.516	16.516	(1.000)	384719	40.0000		
\$ 7 2-Fluorophenol	112	2.961	2.961	(0.708)	81001	20.0000	20.05	
\$ 8 Phenol-d5	99	3.821	3.821	(0.913)	105822	20.0000	20.45	
\$ 9 2-Chlorophenol-d4	132	3.977	3.977	(0.950)	87371	20.0000	20.02	
\$ 10 1,2-Dichlorobenzene-d4	152	4.391	4.391	(1.050)	55793	20.0000	20.54	
\$ 11 Nitrobenzene-d5	82	4.816	4.816	(0.859)	88730	20.0000	19.53	
\$ 12 2-Fluorobiphenyl	172	6.909	6.909	(0.895)	163735	20.0000	19.60	
\$ 13 2,4,6-Tribromophenol	330	8.744	8.744	(1.133)	19280	20.0000	18.67	
\$ 14 Terphenyl-d14	244	12.340	12.340	(0.874)	148459	20.0000	19.48	
15 N-Nitrosodimethylamine	74	1.935	1.935	(0.463)	54601	20.0000	19.64	
16 Pyridine	79	1.956	1.956	(0.468)	95567	20.0000	20.74	
23 Aniline	93	3.883	3.883	(0.928)	129647	20.0000	20.01	
24 Phenol	94	3.832	3.832	(0.916)	109461	20.0000	19.81	
26 Bis(2-chloroethyl)ether	93	3.946	3.946	(0.943)	84734	20.0000	20.34	
27 2-Chlorophenol	128	3.997	3.997	(0.955)	88147	20.0000	20.42	
28 1,3-Dichlorobenzene	146	4.153	4.153	(0.993)	98532	20.0000	20.69	
29 1,4-Dichlorobenzene	146	4.205	4.205	(1.005)	100072	20.0000	20.75	
30 Benzyl Alcohol	108	4.339	4.339	(1.037)	58005	20.0000	19.59	
31 1,2-Dichlorobenzene	146	4.402	4.402	(1.052)	93441	20.0000	20.51	
32 2-Methylphenol	108	4.474	4.474	(1.069)	81370	20.0000	20.01	
33 2,2'-oxybis(1-Chloropropane)	45	4.516	4.516	(1.079)	161451	20.0000	20.34	
34 4-Methylphenol	108	4.630	4.630	(1.106)	87660	20.0000	20.25	
36 Hexachloroethane	117	4.733	4.733	(1.131)	34316	20.0000	20.20	
37 N-Nitrosodimethylamine	70	Compound Not Detected.						
42 Nitrobenzene	77	4.837	4.837	(0.863)	87881	20.0000	19.54	
44 Isophorone	82	5.096	5.096	(0.909)	164200	20.0000	19.23	
45 2-Nitrophenol	139	5.199	5.199	(0.928)	45834	20.0000	18.95	
46 2,4-Dimethylphenol	107	5.231	5.231	(0.933)	89298	20.0000	19.70	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.355	5.355	(0.956)	101820	20.0000	20.07
49 2,4-Dichlorophenol	162	5.448	5.448	(0.972)	63764	20.0000	19.30
50 Benzoic Acid	122	5.303	5.303	(0.946)	46083	20.0000	19.12
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	70657	20.0000	19.75
52 Naphthalene	128	5.624	5.624	(1.004)	278775	20.0000	19.62
54 4-Chloroaniline	127	5.624	5.624	(1.004)	34814	20.0000	20.16
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	32522	20.0000	19.18
60 4-Chloro-3-Methylphenol	107	6.288	6.288	(1.122)	74197	20.0000	19.32
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	168501	20.0000	19.62
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	38060	20.0000	18.82
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	78199	20.0000	27.57
70 2,4,5-Trichlorophenol	196	6.816	6.816	(0.883)	78199	20.0000	27.35
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	144000	20.0000	19.56
73 2-Nitroaniline	65	7.189	7.189	(0.932)	47152	20.0000	18.74
76 Dimethylphthalate	163	7.459	7.459	(0.966)	167525	20.0000	19.65
77 Acenaphthylene	152	7.521	7.521	(0.974)	253914	20.0000	19.65
79 2,6-Dinitrotoluene	165	7.718	7.718	(1.000)	33608	20.0000	15.89
80 3-Nitroaniline	138	7.687	7.687	(0.996)	49049	20.0000	19.41
81 Acenaphthene	153	7.749	7.749	(1.004)	162598	20.0000	19.76
82 2,4-Dinitrophenol	184	7.811	7.811	(1.012)	19504	20.0000	19.68
83 Dibenzofuran	168	7.946	7.946	(1.030)	213749	20.0000	19.68
84 4-Nitrophenol	109	7.894	7.894	(1.023)	22106	20.0000	19.60
86 2,4-Dinitrotoluene	165	8.008	8.008	(1.038)	48451	20.0000	19.30
91 Fluorene	166	8.391	8.391	(1.087)	176789	20.0000	19.86
92 Diethylphthalate	149	8.350	8.350	(1.082)	171646	20.0000	19.21
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	71747	20.0000	19.63
94 4-Nitroaniline	138	8.464	8.464	(1.097)	48680	20.0000	19.49
97 4,6-Dinitro-2-methylphenol	198	8.536	8.536	(0.880)	23755	20.0000	19.08
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	144502	23.4000	22.85
100 Azobenzene	77	8.609	8.609	(0.888)	175604	20.0000	19.68
101 4-Bromophenyl-phenylether	248	9.065	9.065	(0.935)	37921	20.0000	19.57
108 Hexachlorobenzene	284	9.262	9.262	(0.955)	41136	20.0000	19.64
110 Pentachlorophenol	266	9.521	9.521	(0.982)	23021	20.0000	17.74
114 Phenanthrene	178	9.728	9.728	(1.003)	249639	20.0000	19.74
115 Anthracene	178	9.790	9.790	(1.010)	254535	20.0000	20.00
118 Carbazole	167	10.060	10.060	(1.037)	236965	20.0000	19.93
120 Di-n-Butylphthalate	149	10.754	10.754	(1.109)	273588	20.0000	19.00
126 Fluoranthene	202	11.625	11.625	(1.199)	220458	20.0000	19.29
127 Benzidine	184	11.894	11.894	(0.842)	158121	20.0000	19.53
128 Pyrene	202	11.987	11.987	(0.849)	243102	20.0000	19.88
134 3,3'-dimethylbenzidine	212	13.189	13.189	(0.934)	130478	20.0000	19.08
136 Butylbenzylphthalate	149	13.303	13.303	(0.942)	121530	20.0000	19.21
138 Benzo(a)Anthracene	228	14.101	14.101	(0.999)	200182	20.0000	19.22
139 Chrysene	228	14.164	14.164	(1.003)	215801	20.0000	20.03
140 3,3'-Dichlorobenzidine	252	14.132	14.132	(1.001)	74402	20.0000	19.66
141 bis(2-ethylhexyl)Phthalate	149	14.433	14.433	(1.022)	165990	20.0000	18.98
142 Di-n-octylphthalate	149	15.490	15.490	(1.097)	262325	20.0000	19.17
144 Benzo(b)fluoranthene	252	15.925	15.925	(0.964)	168822	20.0000	18.48
145 Benzo(k)fluoranthene	252	15.967	15.967	(0.967)	217724	20.0000	20.33
147 Benzo(e)pyrene	252	16.350	16.350	(0.990)	176945	20.0000	19.54
148 Benzo(a)pyrene	252	16.433	16.433	(0.995)	204334	20.0000	20.44
151 Indeno(1,2,3-cd)pyrene	276	18.267	18.267	(1.106)	202321	20.0000	20.43
152 Dibenzo(a,h)anthracene	278	18.309	18.309	(1.109)	169908	20.0000	18.74
153 Benzo(g,h,i)perylene	276	18.734	18.734	(1.134)	191908	20.0000	19.82

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	DN-COL ( NG)
=====	====	-----	-----	-----	-----	-----	-----
M 162 benzo b,k Fluoranthene Totals	252				386546	20.0000	19.48 (A)

QC Flag Legend

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

TestAmerica WestSacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL0823C.D  
 Lab Smp Id: HSL 020 ug/ml CS-3  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0309;0;8270F.M

Calibration Date: 23-AUG-2010  
 Calibration Time: 16:14  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

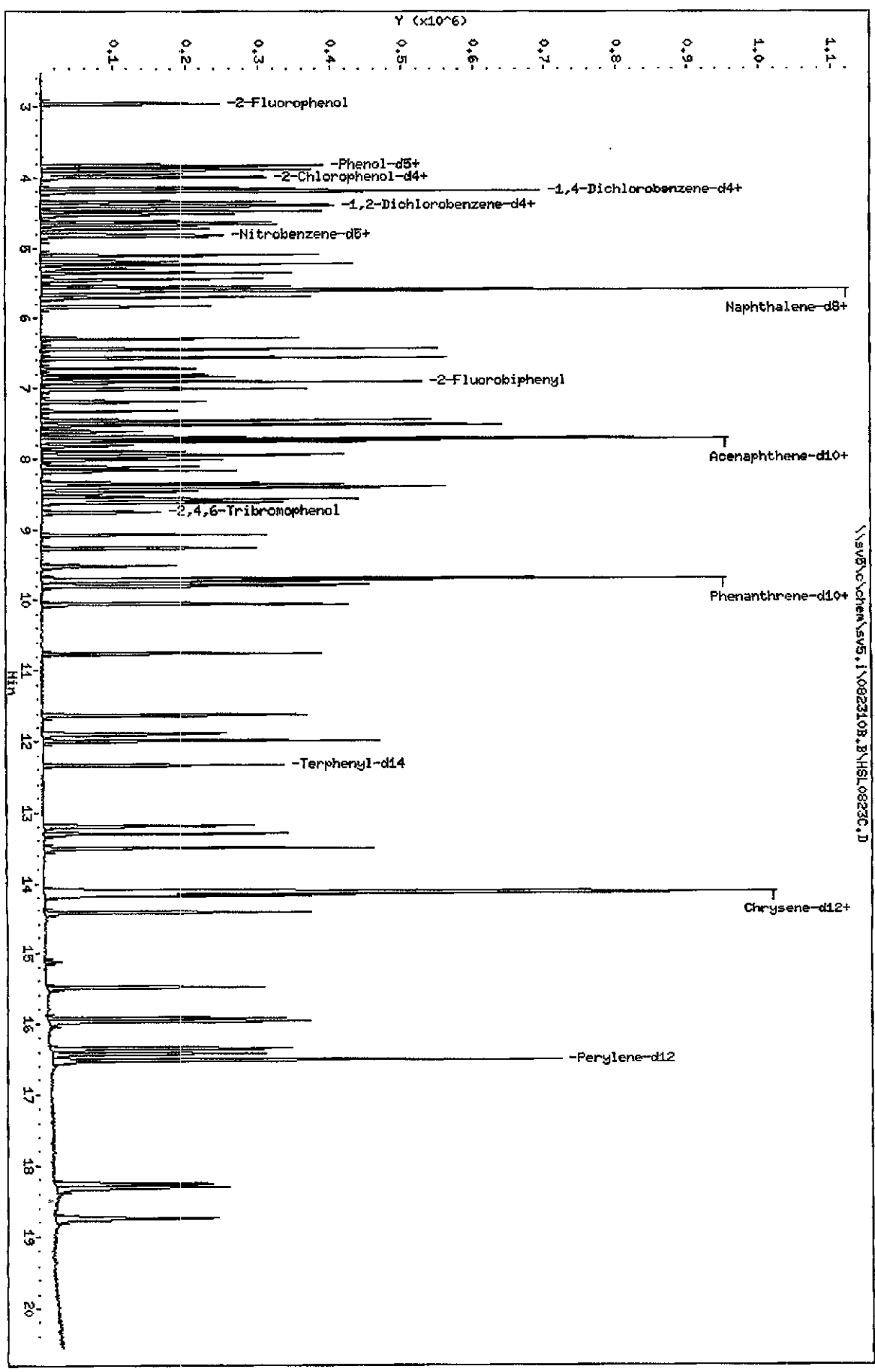
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	109250	-2.80
2 Naphthalene-d8	494728	247364	989456	505594	2.20
3 Acenaphthene-d10	264752	132376	529504	263989	-0.29
4 Phenanthrene-d10	415811	207906	831622	403871	-2.87
5 Chrysene-d12	431516	215758	863032	393840	-8.73
6 Perylene-d12	416460	208230	832920	384719	-7.62

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	0.00
2 Naphthalene-d8	5.60	5.10	6.10	5.60	0.00
3 Acenaphthene-d10	7.72	7.22	8.22	7.72	0.00
4 Phenanthrene-d10	9.70	9.20	10.20	9.70	0.00
5 Chrysene-d12	14.13	13.63	14.63	14.12	-0.07
6 Perylene-d12	16.53	16.03	17.03	16.52	-0.06

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

Data File: \\sv5\chem\sv5.1\0823108.B\HSL0823C.D  
 Date: 23-AUG-2010 17:32  
 Client ID: 8270F.N  
 Sample Info: HSL\_020 ug/ml CS-311;3;3;3;4  
 Column phase:

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



TestAmerica WestSacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823D.D  
 Lab Smp Id: HSL\_050 ug/ml CS-4 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 16:14  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL\_050 ug/ml CS-4;1;;4;;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0310;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 15:54 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 95 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	112399	40.0000	
* 2 Naphthalene-d8	136	5.603	5.603	(1.000)	494728	40.0000	
* 3 Acenaphthene-d10	164	7.718	7.718	(1.000)	264752	40.0000	
* 4 Phenanthrene-d10	188	9.697	9.697	(1.000)	415811	40.0000	
* 5 Chrysene-d12	240	14.132	14.132	(1.000)	431516	40.0000	
* 6 Perylene-d12	264	16.526	16.526	(1.000)	416460	40.0000	
\$ 7 2-Fluorophenol	112	2.961	2.961	(0.708)	205458	50.0000	49.78
\$ 8 Phenol-d5	99	3.821	3.821	(0.913)	268577	50.0000	50.61
\$ 9 2-Chlorophenol-d4	132	3.976	3.976	(0.950)	221459	50.0000	50.05
\$ 10 1,2-Dichlorobenzene-d4	152	4.391	4.391	(1.050)	134259	50.0000	48.39
\$ 11 Nitrobenzene-d5	82	4.816	4.816	(0.859)	220739	50.0000	51.27
\$ 12 2-Fluorobiphenyl	172	6.909	6.909	(0.895)	408804	50.0000	48.83
\$ 13 2,4,6-Tribromophenol	330	8.743	8.743	(1.133)	55963	50.0000	59.34
\$ 14 Terphenyl-d14	244	12.339	12.339	(0.873)	410782	50.0000	48.67
15 N-Nitrosodimethylamine	74	1.935	1.935	(0.463)	139987	50.0000	48.74
16 Pyridine	79	1.956	1.956	(0.468)	229677	50.0000	47.89
23 Aniline	93	3.883	3.883	(0.928)	335570	50.0000	49.52
24 Phenol	94	3.842	3.842	(0.918)	283543	50.0000	50.36
26 Bis(2-chloroethyl) ether	93	3.945	3.945	(0.943)	210388	50.0000	47.87
27 2-Chlorophenol	128	3.997	3.997	(0.955)	222487	50.0000	50.06
28 1,3-Dichlorobenzene	146	4.153	4.153	(0.993)	240570	50.0000	49.12
29 1,4-Dichlorobenzene	146	4.204	4.204	(1.005)	249353	50.0000	49.66
30 Benzyl Alcohol	108	4.339	4.339	(1.037)	145798	50.0000	48.70 (M)
31 1,2-Dichlorobenzene	146	4.401	4.401	(1.052)	231012	50.0000	49.98
32 2-Methylphenol	108	4.474	4.474	(1.069)	213241	50.0000	50.50
33 2,2'-oxybis(1-Chloropropane)	45	4.526	4.526	(1.082)	408964	50.0000	46.36
34 4-Methylphenol	108	4.629	4.629	(1.106)	225711	50.0000	51.20
36 Hexachloroethane	117	4.733	4.733	(1.131)	85571	50.0000	50.04
37 N-Nitrosodipropylamine	70	4.671	4.671	(1.116)	157958	50.0000	50.10
42 Nitrobenzene	77	4.837	4.837	(0.863)	218289	50.0000	50.43
44 Isophorone	82	5.096	5.096	(0.909)	421458	50.0000	49.46
45 2-Nitrophenol	139	5.199	5.199	(0.928)	118778	50.0000	56.74
46 2,4-Dimethylphenol	107	5.230	5.230	(0.933)	221144	50.0000	49.50

*SM 8/24/10*

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.355	5.355	(0.956)	250850	50.0000	50.22
49 2,4-Dichlorophenol	162	5.448	5.448	(0.972)	160069	50.0000	51.19
50 Benzoic Acid	122	5.324	5.324	(0.950)	126954	50.0000	60.75
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	174548	50.0000	49.85
52 Naphthalene	128	5.624	5.624	(1.004)	675505	50.0000	48.38
54 4-Chloroaniline	127	5.717	5.717	(1.020)	276712	50.0000	50.71 (H)
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	82264	50.0000	50.53
60 4-Chloro-3-Methylphenol	107	6.287	6.287	(1.122)	196300	50.0000	52.76
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	434535	50.0000	51.00
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	101538	50.0000	56.85
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	102899	50.0000	52.12
70 2,4,5-Trichlorophenol	196	6.857	6.857	(0.889)	110752	50.0000	51.84 (H)
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	364574	50.0000	48.98
73 2-Nitroaniline	65	7.189	7.189	(0.932)	129414	50.0000	56.50
76 Dimethylphthalate	163	7.458	7.458	(0.966)	436804	50.0000	50.28
77 Acenaphthylene	152	7.531	7.531	(0.976)	662377	50.0000	51.04
79 2,6-Dinitrotoluene	165	7.531	7.531	(0.976)	100573	50.0000	54.67 (M)
80 3-Nitroaniline	138	7.686	7.686	(0.996)	128681	50.0000	52.77
81 Acenaphthene	153	7.759	7.759	(1.005)	414884	50.0000	49.76
82 2,4-Dinitrophenol	184	7.821	7.821	(1.013)	58321	50.0000	66.60
83 Dibenzofuran	168	7.956	7.956	(1.031)	549537	50.0000	50.20
84 4-Nitrophenol	109	7.894	7.894	(1.023)	60036	50.0000	56.00 (M)
86 2,4-Dinitrotoluene	165	8.018	8.018	(1.039)	136877	50.0000	53.86
91 Fluorene	166	8.401	8.401	(1.089)	455790	50.0000	51.19
92 Diethylphthalate	149	8.350	8.350	(1.082)	455938	50.0000	49.07
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	187665	50.0000	51.48
94 4-Nitroaniline	138	8.474	8.474	(1.098)	132533	50.0000	55.70
97 4,6-Dinitro-2-methylphenol	198	8.536	8.536	(0.880)	72789	50.0000	61.40
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	380542	58.6000	59.98
100 Azobenzene	77	8.619	8.619	(0.889)	473134	50.0000	50.09
101 4-Bromophenyl-phenylether	248	9.075	9.075	(0.936)	98527	50.0000	50.30
108 Hexachlorobenzene	284	9.262	9.262	(0.955)	107486	50.0000	49.94
110 Pentachlorophenol	266	9.521	9.521	(0.982)	72603	50.0000	60.89
114 Phenanthrene	178	9.728	9.728	(1.003)	662315	50.0000	50.56
115 Anthracene	178	9.801	9.801	(1.011)	671351	50.0000	52.09
118 Carbazole	167	10.060	10.060	(1.037)	629098	50.0000	52.25
120 Di-n-Butylphthalate	149	10.764	10.764	(1.110)	767534	50.0000	53.34
126 Fluoranthene	202	11.624	11.624	(1.199)	606688	50.0000	53.58
127 Benzidine	184	11.894	11.894	(0.842)	469113	50.0000	56.09
129 Pyrene	202	11.987	11.987	(0.848)	560740	50.0000	47.91
134 3,3'-dimethylbenzidine	212	13.200	13.200	(0.934)	400775	50.0000	55.08
136 Butylbenzylphthalate	149	13.314	13.314	(0.942)	351167	50.0000	52.81
138 Benzo (a) Anthracene	228	14.101	14.101	(0.998)	572037	50.0000	50.91
139 Chrysene	228	14.174	14.174	(1.003)	582798	50.0000	48.81
140 3,3'-Dichlorobenzidine	252	14.132	14.132	(1.000)	208679	50.0000	54.75
141 bis(2-ethylhexyl) Phthalate	149	14.433	14.433	(1.021)	491643	50.0000	53.62
142 Di-n-octylphthalate	149	15.490	15.490	(1.096)	807651	50.0000	56.36
144 Benzo (b) fluoranthene	252	15.935	15.935	(0.964)	525609	50.0000	54.98
145 Benzo (k) fluoranthene	252	15.977	15.977	(0.967)	591853	50.0000	49.43
147 Benzo (e) pyrene	252	16.360	16.360	(0.990)	505653	50.0000	51.50
148 Benzo (a) pyrene	252	16.433	16.433	(0.994)	561548	50.0000	53.14
151 Indeno (1,2,3-cd) pyrene	276	18.267	18.267	(1.105)	448500	50.0000	53.87
152 Dibenzo (a,h) anthracene	278	18.319	18.319	(1.108)	506069	50.0000	54.23
153 Benzo (g,h,i) perylene	276	18.744	18.744	(1.134)	533156	50.0000	53.68

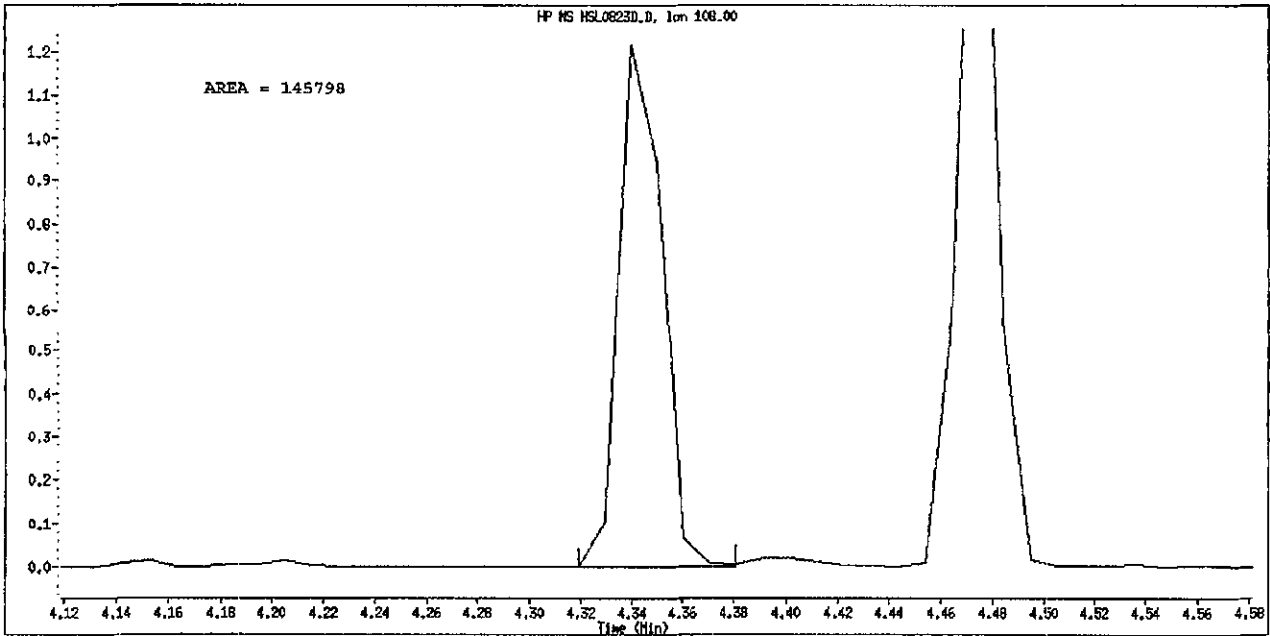
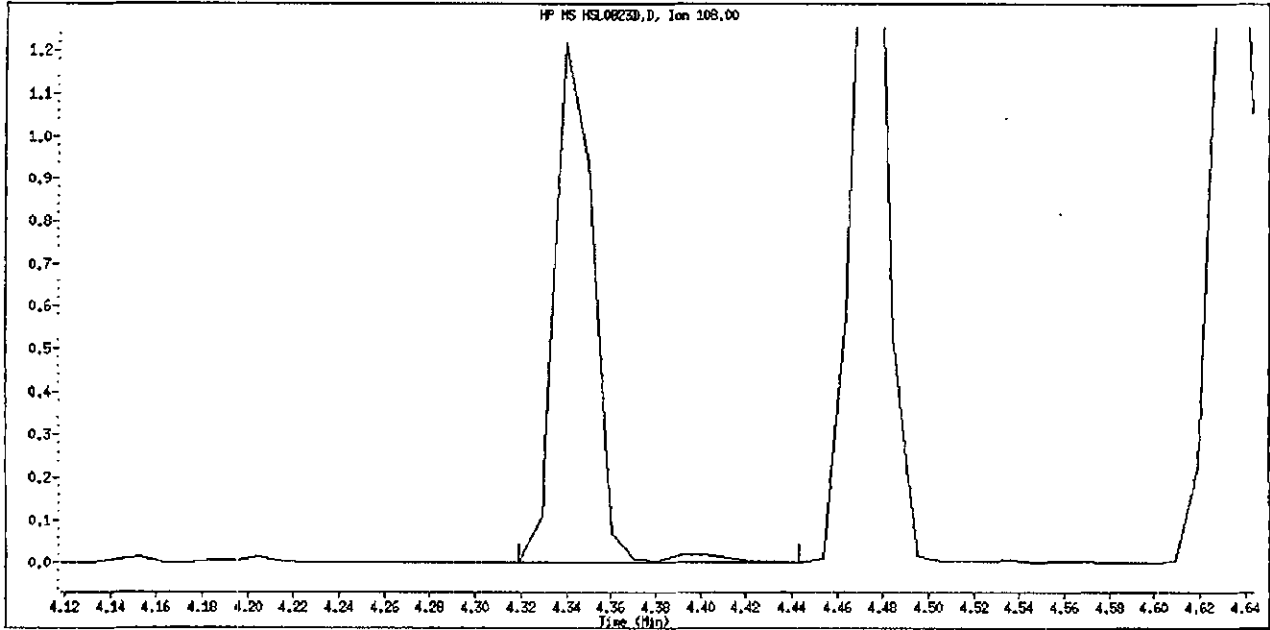
Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
-----	====	----	-----	-----	-----	-----	-----
M 162 benzo b,k Fluoranthene Totals	252				1117462	50.0000	

QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

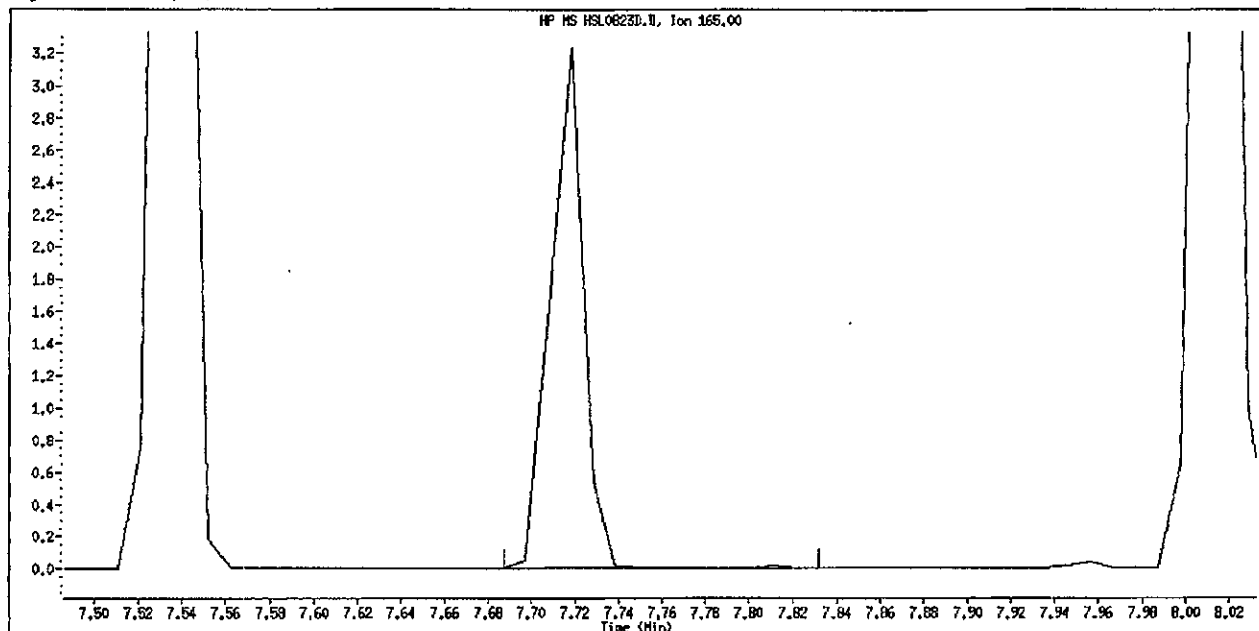


Data File Name: HSL0823D.D  
Inj. Date and Time: 23-AUG-2010 16:14  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: Benzyl Alcohol  
CAS #: 100-51-6  
Report Date: 08/24/2010

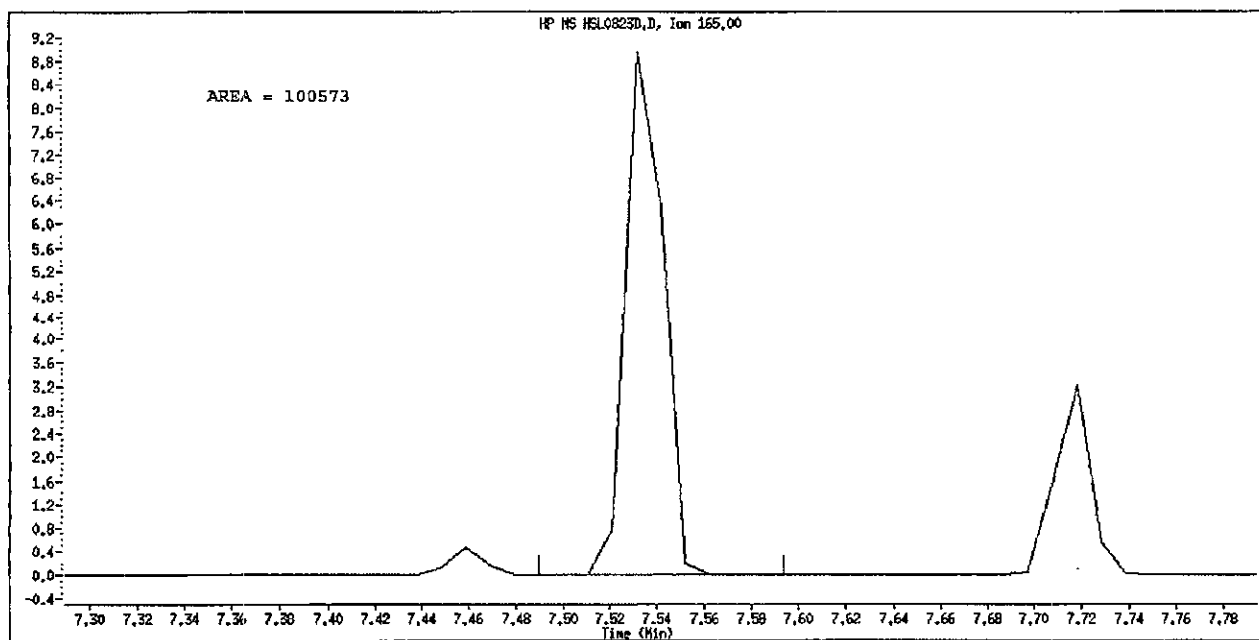


Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

Data File Name: HSL0823D.D  
Inj. Date and Time: 23-AUG-2010 16:14  
Instrument ID: sv5.1  
Client ID: 8270F.M  
Compound Name: 2,6-Dinitrotoluene  
CAS #: 606-20-2  
Report Date: 08/24/2010



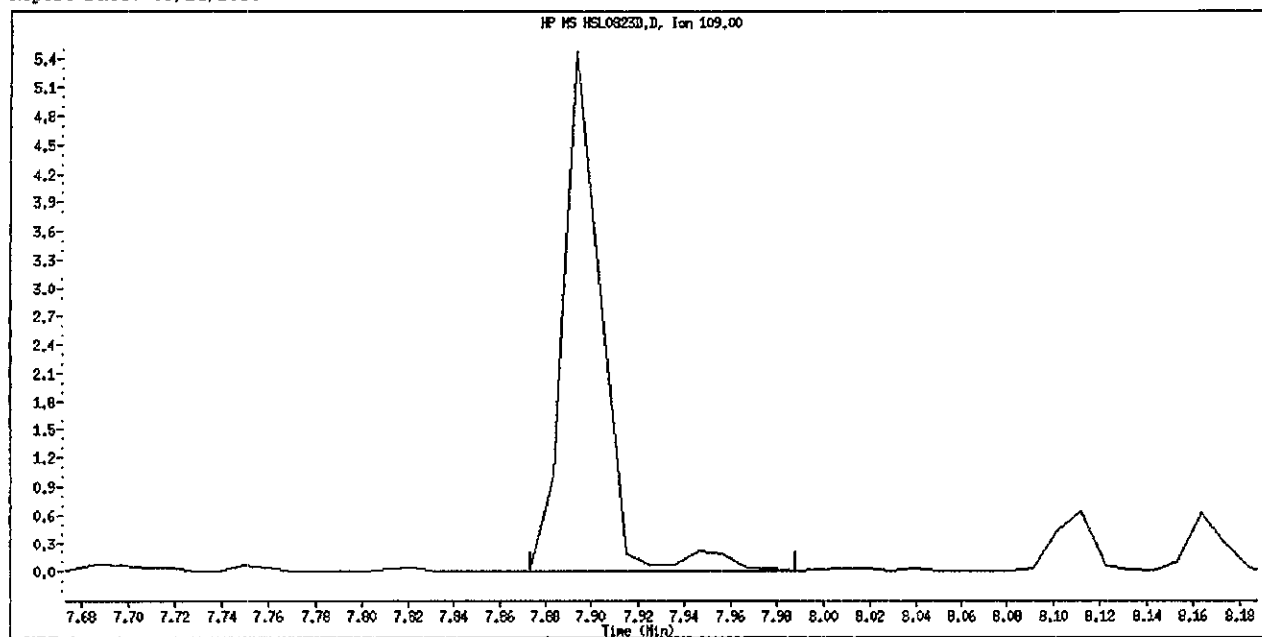
Original Integration



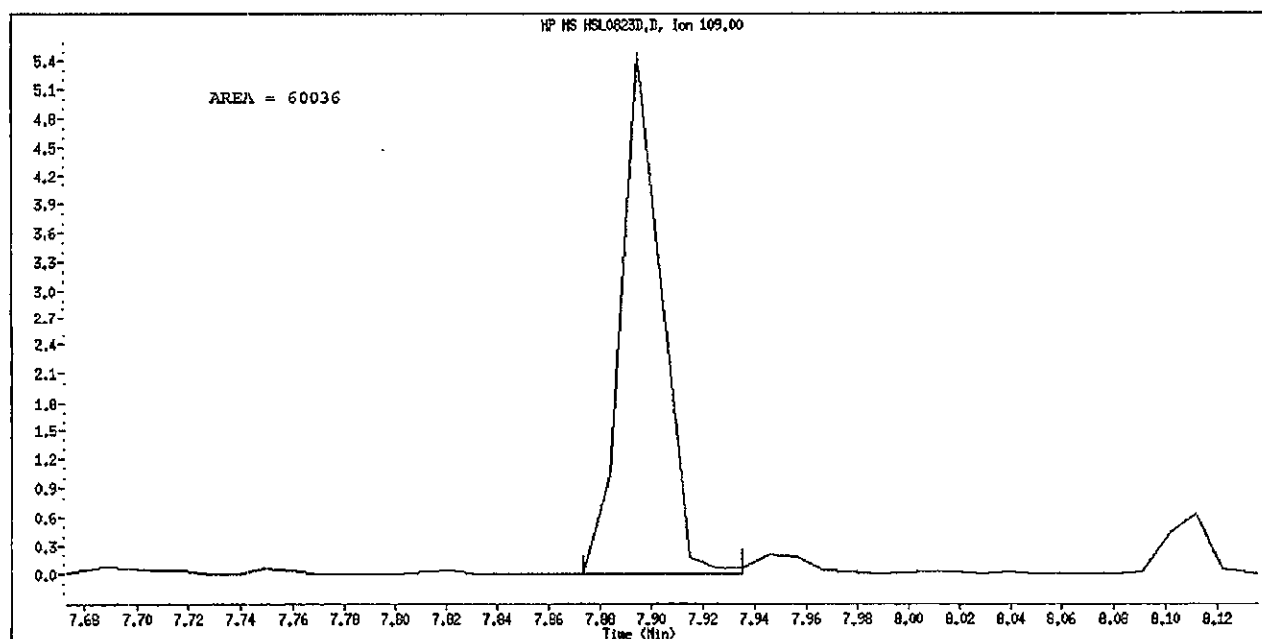
Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Wrong Peak

Data File Name: HSL0823D.D  
Inj. Date and Time: 22-AUG-2010 16:14  
Instrument ID: sv5.i  
Client ID: 0270F.M  
Compound Name: 4-Nitrophenol  
CAS #: 100-02-7  
Report Date: 08/24/2010



Original Integration



Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

TestAmerica WestSacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823D.D  
 Lab Smp Id: HSL 050 ug/ml CS-4 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 16:14  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 050 ug/ml CS-4;1;;4;;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0310;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 12:08 scotts Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 95 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	112399	40.0000	
* 2 Naphthalene-d8	136	5.603	5.603	(1.000)	494728	40.0000	
* 3 Acenaphthene-d10	164	7.718	7.718	(1.000)	264752	40.0000	
* 4 Phenanthrene-d10	188	9.697	9.697	(1.000)	415811	40.0000	
* 5 Chrysene-d12	240	14.132	14.132	(1.000)	431516	40.0000	
* 6 Perylene-d12	264	16.526	16.526	(1.000)	416460	40.0000	
\$ 7 2-Fluorophenol	112	2.961	2.961	(0.708)	205458	50.0000	49.43
\$ 8 Phenol-d5	99	3.821	3.821	(0.913)	268577	50.0000	50.44
\$ 9 2-Chlorophenol-d4	132	3.976	3.976	(0.950)	221459	50.0000	49.31
\$ 10 1,2-Dichlorobenzene-d4	152	4.391	4.391	(1.050)	134259	50.0000	48.05
\$ 11 Nitrobenzene-d5	82	4.816	4.816	(0.859)	220739	50.0000	49.66
\$ 12 2-Fluorobiphenyl	172	6.909	6.909	(0.895)	408804	50.0000	48.79
\$ 13 2,4,6-Tribromophenol	330	8.743	8.743	(1.133)	55963	50.0000	54.03
\$ 14 Terphenyl-d14	244	12.339	12.339	(0.873)	410782	50.0000	49.20
15 N-Nitrosodimethylamine	74	1.935	1.935	(0.463)	139987	50.0000	48.93
16 Pyridine	79	1.956	1.956	(0.468)	229677	50.0000	48.45
23 Aniline	93	3.883	3.883	(0.928)	335570	50.0000	50.33
24 Phenol	94	3.842	3.842	(0.918)	283543	50.0000	49.88
26 Bis(2-chloroethyl) ether	93	3.945	3.945	(0.943)	210388	50.0000	49.08
27 2-Chlorophenol	128	3.997	3.997	(0.955)	222487	50.0000	50.10
28 1,3-Dichlorobenzene	146	4.153	4.153	(0.993)	240570	50.0000	49.11
29 1,4-Dichlorobenzene	146	4.204	4.204	(1.005)	249353	50.0000	50.25
30 Benzyl Alcohol	108	4.339	4.339	(1.037)	149319	50.0000	48.86
31 1,2-Dichlorobenzene	146	4.401	4.401	(1.052)	231012	50.0000	49.30
32 2-Methylphenol	108	4.474	4.474	(1.069)	213241	50.0000	50.96
33 2,2'-oxybis(1-Chloropropane)	45	4.526	4.526	(1.082)	408964	50.0000	50.09
34 4-Methylphenol	108	4.629	4.629	(1.106)	225711	50.0000	50.67
36 Hexachloroethane	117	4.733	4.733	(1.131)	85571	50.0000	48.95
37 N-Nitrosodipropylamine	70	4.671	4.671	(1.116)	157958	50.0000	50.27
42 Nitrobenzene	77	4.837	4.837	(0.863)	218289	50.0000	49.61
44 Isophorone	82	5.096	5.096	(0.909)	421458	50.0000	50.46
45 2-Nitrophenol	139	5.199	5.199	(0.928)	118778	50.0000	50.19
46 2,4-Dimethylphenol	107	5.230	5.230	(0.933)	221144	50.0000	49.85

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
47 Bis (2-chloroethoxy) methane	93	5.355	5.355	(0.956)	250850	50.0000	50.54
49 2,4-Dichlorophenol	162	5.448	5.448	(0.972)	160069	50.0000	49.50
50 Benzoic Acid	122	5.324	5.324	(0.950)	126954	50.0000	48.34
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	174548	50.0000	49.87
52 Naphthalene	128	5.624	5.624	(1.004)	675505	50.0000	48.58
54 4-Chloroaniline	127	5.624	5.624	(1.004)	85478	50.0000	50.59
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	82264	50.0000	49.59
60 4-Chloro-3-Methylphenol	107	6.287	6.287	(1.122)	195300	50.0000	52.24
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	434535	50.0000	51.70
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	101538	50.0000	50.06
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	102899	50.0000	36.17
70 2,4,5-Trichlorophenol	196	6.816	6.816	(0.883)	102899	50.0000	36.17
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	364574	50.0000	49.37
73 2-Nitroaniline	65	7.189	7.189	(0.932)	129414	50.0000	51.30
76 Dimethylphthalate	163	7.458	7.458	(0.966)	436804	50.0000	51.10
77 Acenaphthylene	152	7.531	7.531	(0.976)	662377	50.0000	51.10
79 2,6-Dinitrotoluene	165	7.718	7.718	(1.000)	33491	50.0000	17.36
80 3-Nitroaniline	138	7.686	7.686	(0.996)	128681	50.0000	50.77
81 Acenaphthene	153	7.759	7.759	(1.005)	414884	50.0000	50.28
82 2,4-Dinitrophenol	184	7.821	7.821	(1.013)	58321	50.0000	50.59
83 Dibenzofuran	168	7.956	7.956	(1.031)	549537	50.0000	50.46
84 4-Nitrophenol	109	7.894	7.894	(1.023)	62763	50.0000	55.11
86 2,4-Dinitrotoluene	165	8.018	8.018	(1.039)	136877	50.0000	50.74
91 Fluorene	166	8.401	8.401	(1.089)	455790	50.0000	51.05
92 Diethylphthalate	149	8.350	8.350	(1.082)	455938	50.0000	50.88
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	187665	50.0000	51.19
94 4-Nitroaniline	138	8.474	8.474	(1.098)	132533	50.0000	52.92
97 4,6-Dinitro-2-methylphenol	198	8.536	8.536	(0.880)	72789	50.0000	50.48
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	380542	58.6000	58.46
100 Azobenzene	77	8.619	8.619	(0.889)	473134	50.0000	51.51
101 4-Bromophenyl-phenylether	248	9.075	9.075	(0.936)	98527	50.0000	49.39
108 Hexachlorobenzene	284	9.262	9.262	(0.955)	107486	50.0000	49.84
110 Pentachlorophenol	266	9.521	9.521	(0.982)	72603	50.0000	54.35
114 Phenanthrene	178	9.728	9.728	(1.003)	662315	50.0000	50.88
115 Anthracene	178	9.801	9.801	(1.011)	671351	50.0000	51.25
118 Carbazole	167	10.060	10.060	(1.037)	629098	50.0000	51.39
120 Di-n-Butylphthalate	149	10.764	10.764	(1.110)	767534	50.0000	51.78
126 Fluoranthene	202	11.624	11.624	(1.199)	606688	50.0000	51.57
127 Benzidine	184	11.894	11.894	(0.842)	469113	50.0000	50.27
128 Pyrene	202	11.987	11.987	(0.848)	660740	50.0000	49.32
134 3,3'-dimethylbenzidine	212	13.200	13.200	(0.934)	400775	50.0000	49.15
136 Butylbenzylphthalate	149	13.314	13.314	(0.942)	351167	50.0000	50.65
138 Benzo(a)Anthracene	228	14.101	14.101	(0.998)	572037	50.0000	50.14
139 Chrysene	228	14.174	14.174	(1.003)	582798	50.0000	49.38
140 3,3'-Dichlorobenzidine	252	14.132	14.132	(1.000)	208679	50.0000	50.32
141 bis(2-ethylhexyl) Phthalate	149	14.433	14.433	(1.021)	491643	50.0000	51.30
142 Di-n-octylphthalate	149	15.490	15.490	(1.096)	807651	50.0000	49.78
144 Benzo(b)fluoranthene	252	15.935	15.935	(0.964)	525609	50.0000	53.16
145 Benzo(k)fluoranthene	252	15.977	15.977	(0.967)	591853	50.0000	51.06
147 Benzo(e)pyrene	252	16.360	16.360	(0.990)	505653	50.0000	51.59
148 Benzo(a)pyrene	252	16.433	16.433	(0.994)	561548	50.0000	51.90
151 Indeno(1,2,3-cd)pyrene	276	18.267	18.267	(1.105)	448500	50.0000	41.84
152 Dibenzo(a,h)anthracene	278	18.319	18.319	(1.108)	506069	50.0000	51.56
153 Benzo(g,h,i)perylene	276	18.744	18.744	(1.134)	533156	50.0000	50.88

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
-----	----	----	-----	-----	-----	-----	-----
M 162 benzo b,k Fluoranthene Totals	252				1117462	50.0000	52.03 (A)

QC Flag Legend

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

TestAmerica WestSacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL0823D.D  
 Lab Smp Id: HSL 050 ug/ml CS-4  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0310;0;8270F.M

Calibration Date: 23-AUG-2010  
 Calibration Time: 16:14  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

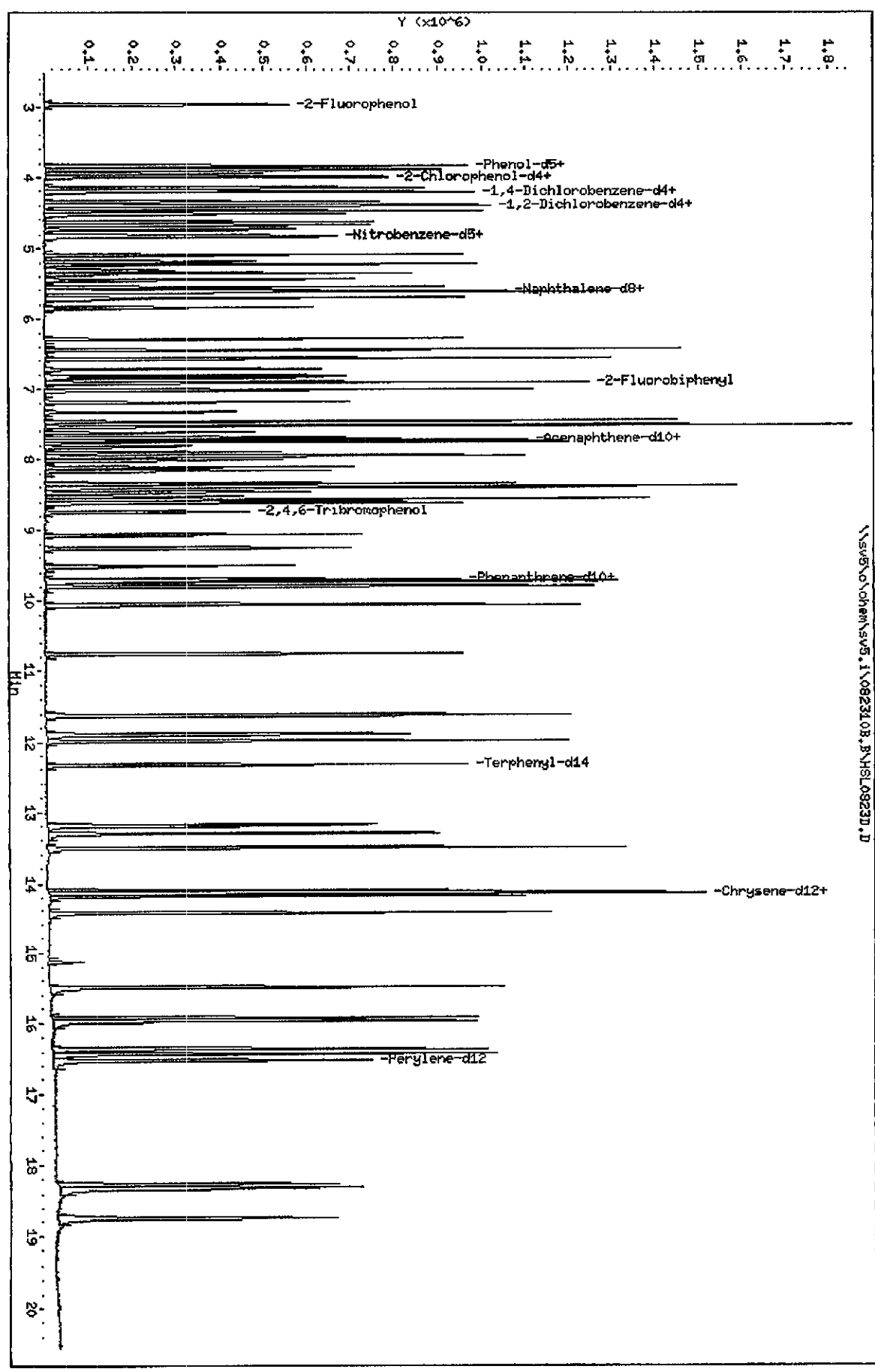
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	112399	0.00
2 Naphthalene-d8	494728	247364	989456	494728	0.00
3 Acenaphthene-d10	264752	132376	529504	264752	0.00
4 Phenanthrene-d10	415811	207906	831622	415811	0.00
5 Chrysene-d12	431516	215758	863032	431516	0.00
6 Perylene-d12	416460	208230	832920	416460	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	0.00
2 Naphthalene-d8	5.60	5.10	6.10	5.60	0.00
3 Acenaphthene-d10	7.72	7.22	8.22	7.72	0.00
4 Phenanthrene-d10	9.70	9.20	10.20	9.70	0.00
5 Chrysene-d12	14.13	13.63	14.63	14.13	0.00
6 Perylene-d12	16.53	16.03	17.03	16.53	0.00

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

Data File: \\nav5\chem\sv5.1\0823108.B\HSL0823D.D  
 Date: 23-AUG-2010 16:14  
 Client ID: 8270F.M  
 Sample Info: HSL\_050 ug/ml CS-411444444  
 Column phase:

Instrument: sv5.1  
 Operator: KT  
 Column diameter: 2.00





TestAmerica WestSacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823E.D  
 Lab Smp Id: HSL\_080 ug/ml CS-5 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 17:58  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL\_080 ug/ml CS-5;1;;5;;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0311;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 15:55 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 22:37 Cal File: AP90817C.D  
 Als bottle: 96 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT SIG MASS	RT	EXP RT	RKL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	CN-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(2.000)	118396	40.0000	(Q)
* 2 Naphthalene-d8	136	5.604	5.604	(1.000)	521662	40.0000	
* 3 Acenaphthene-d10	164	7.718	7.718	(1.000)	277616	40.0000	
* 4 Phenanthrene-d10	188	9.697	9.697	(1.000)	436069	40.0000	
* 5 Chrysene-d12	240	14.132	14.132	(1.000)	433224	40.0000	
* 6 Perylene-d12	264	16.526	16.526	(1.000)	427303	40.0000	
\$ 7 2-Fluorophenol	112	2.961	2.961	(0.708)	349327	80.0000	80.26
\$ 8 Phenol-d5	99	3.831	3.831	(0.916)	457687	80.0000	81.62
\$ 9 2-Chlorophenol-d4	132	3.977	3.977	(0.950)	378697	80.0000	80.34
\$ 10 1,2-Dichlorobenzene-d4	152	4.391	4.391	(1.050)	231328	80.0000	78.69
\$ 11 Nitrobenzene-d5	82	4.816	4.816	(0.859)	378263	80.0000	81.91
\$ 12 2-Fluorobiphenyl	172	6.909	6.909	(0.895)	694956	80.0000	78.98
\$ 13 2,4,6-Tribromophenol	330	8.744	8.744	(1.133)	92395	80.0000	87.53
\$ 14 Terphenyl-d14	244	12.340	12.340	(0.873)	681363	80.0000	79.79
15 N-Nitrosodimethylamine	74	1.935	1.935	(0.463)	238169	80.0000	78.91
16 Pyridine	79	1.956	1.956	(0.468)	394667	80.0000	79.31
23 Aniline	93	3.883	3.883	(0.928)	565523	80.0000	80.55
24 Phenol	94	3.842	3.842	(0.918)	474870	80.0000	80.12
26 Bis(2-chloroethyl)ether	93	3.945	3.945	(0.943)	354092	80.0000	78.00
27 2-Chlorophenol	128	3.997	3.997	(0.955)	372871	80.0000	79.53
28 1,3-Dichlorobenzene	146	4.153	4.153	(0.993)	407979	80.0000	79.25
29 1,4-Dichlorobenzene	146	4.205	4.205	(1.005)	415272	80.0000	79.51
30 Benzyl Alcohol	108	4.339	4.339	(1.037)	256102	80.0000	80.33
31 1,2-Dichlorobenzene	146	4.401	4.401	(1.052)	389664	80.0000	78.83
32 2-Methylphenol	108	4.474	4.474	(1.069)	356302	80.0000	80.74
33 2,2'-oxybis(1-Chloropropane)	45	4.526	4.526	(1.082)	684328	80.0000	76.95
34 4-Methylphenol	108	4.640	4.640	(1.109)	380682	80.0000	81.23
36 Hexachloroethane	117	4.733	4.733	(1.131)	148577	80.0000	81.42
37 N-Nitrosodipropylamine	70	4.671	4.671	(1.116)	262998	80.0000	78.83
42 Nitrobenzene	77	4.837	4.837	(0.863)	376430	80.0000	81.32
44 Isophorone	82	5.096	5.096	(0.909)	719749	80.0000	81.28
45 2-Nitrophenol	139	5.199	5.199	(0.928)	208879	80.0000	86.55
46 2,4-Dimethylphenol	107	5.231	5.231	(0.933)	380072	80.0000	81.37

*Handwritten signature/initials*

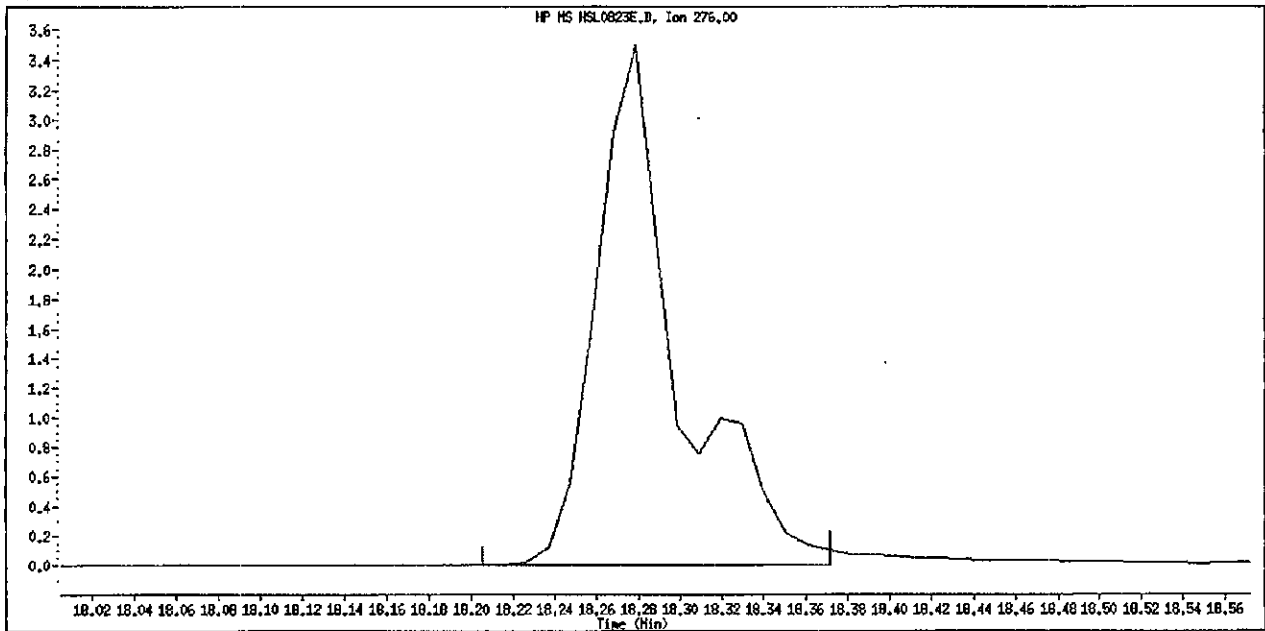
Compounds	QUANT	SIG	AMOUNTS					
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)
47 Bis(2-chloroethoxy)methane	93		5.355	5.355	(0.956)	421499	80.0000	79.92
49 2,4-Dichlorophenol	162		5.458	5.458	(0.974)	277736	80.0000	82.33
50 Benzoic Acid	122		5.344	5.344	(0.954)	224297	80.0000	91.52
51 1,2,4-Trichlorobenzene	180		5.562	5.562	(0.993)	288837	80.0000	78.36
52 Naphthalene	128		5.624	5.624	(1.004)	1171030	80.0000	80.74
54 4-Chloroaniline	127		5.718	5.718	(1.020)	470189	80.0000	91.41(H)
57 Hexachlorobutadiene	225		5.852	5.852	(1.044)	140316	80.0000	80.89
60 4-Chloro-3-Methylphenol	107		6.288	6.288	(1.122)	328023	80.0000	82.80
63 2-Methylnaphthalene	142		6.443	6.443	(1.150)	715842	80.0000	80.29
66 Hexachlorocyclopentadiene	237		6.723	6.723	(0.871)	168858	80.0000	82.19
69 2,4,6-Trichlorophenol	196		6.816	6.816	(0.883)	173839	80.0000	84.00(Q)
70 2,4,5-Trichlorophenol	196		6.858	6.858	(0.889)	184619	80.0000	81.32(QH)
71 2-Chloronaphthalene	162		7.023	7.023	(0.910)	624038	80.0000	80.70
73 2-Nitroaniline	65		7.189	7.189	(0.932)	220569	80.0000	85.11
76 Dimethylphthalate	163		7.459	7.459	(0.966)	718184	80.0000	79.67
77 Acenaphthylene	152		7.531	7.531	(0.976)	1093153	80.0000	80.40
79 2,6-Dinitrotoluene	165		7.531	7.531	(0.976)	165501	80.0000	83.70(H)
80 3-Nitroaniline	138		7.697	7.697	(0.997)	221843	80.0000	83.71
81 Acenaphthene	153		7.759	7.759	(1.005)	691306	80.0000	80.04
82 2,4-Dinitrophenol	184		7.821	7.821	(1.013)	98584	80.0000	93.12
83 Dibenzofuran	168		7.956	7.956	(1.031)	917683	80.0000	80.33
84 4-Nitrophenol	109		7.894	7.894	(1.023)	94857	80.0000	81.03
86 2,4-Dinitrotoluene	165		8.018	8.018	(1.039)	224616	80.0000	80.48
91 Fluorene	166		8.402	8.402	(1.089)	750264	80.0000	80.34
92 Diethylphthalate	149		8.350	8.350	(1.082)	746547	80.0000	79.03
93 4-Chlorophenyl-phenylether	204		8.412	8.412	(1.090)	307153	80.0000	79.67
94 4-Nitroaniline	138		8.474	8.474	(1.098)	223757	80.0000	86.53
97 4,6-Dinitro-2-methylphenol	198		8.536	8.536	(0.880)	120703	80.0000	87.04
98 N-Nitrosodiphenylamine	169		8.578	8.578	(0.885)	626209	93.7000	91.64
100 Azobenzene	77		8.619	8.619	(0.889)	781341	80.0000	80.04
101 4-Bromophenyl-phenylether	248		9.075	9.075	(0.936)	164903	80.0000	79.37
108 Hexachlorobenzene	284		9.262	9.262	(0.955)	177558	80.0000	78.91
110 Pentachlorophenol	266		9.521	9.521	(0.982)	116533	80.0000	86.74
114 Phenanthrene	178		9.728	9.728	(1.003)	1069179	80.0000	78.25
115 Anthracene	178		9.801	9.801	(1.011)	1098761	80.0000	80.04
118 Carbazole	167		10.060	10.060	(1.037)	1005124	80.0000	78.42
120 Di-n-Butylphthalate	149		10.764	10.764	(1.110)	1260294	80.0000	81.80
126 Fluoranthene	202		11.624	11.624	(1.199)	987325	80.0000	81.18
127 Benzidine	184		11.894	11.894	(0.842)	755077	80.0000	82.91
128 Pyrene	202		11.987	11.987	(0.848)	1092442	80.0000	79.17
134 3,3'-dimethylbenzidine	212		13.200	13.200	(0.934)	657222	80.0000	83.25
136 Butylbenzylphthalate	149		13.314	13.314	(0.942)	581081	80.0000	82.62
138 Benzo(a)Anthracene	228		14.101	14.101	(0.998)	927617	80.0000	80.74
139 Chrysene	228		14.174	14.174	(1.003)	938282	80.0000	78.59
140 3,3'-Dichlorobenzidine	252		14.132	14.132	(1.000)	345775	80.0000	83.91
141 bis(2-ethylhexyl)Phthalate	149		14.433	14.433	(1.021)	803315	80.0000	83.56
142 Di-n-octylphthalate	149		15.490	15.490	(1.096)	1314136	80.0000	84.71
144 Benzo(b)fluoranthene	252		15.936	15.936	(0.964)	834970	80.0000	84.58
145 Benzo(k)fluoranthene	252		15.977	15.977	(0.967)	982280	80.0000	80.06
147 Benzo(e)pyrene	252		16.360	16.360	(0.990)	828798	80.0000	82.17
148 Benzo(a)pyrene	252		16.433	16.433	(0.994)	906314	80.0000	81.15
151 Indeno(1,2,3-cd)pyrene	276		18.278	18.278	(1.106)	783078	80.0000	85.78(M)
152 Dibenzo(a,h)anthracene	278		18.329	18.329	(1.109)	835131	80.0000	84.28
153 Benzo(g,h,i)perylene	276		18.754	18.754	(1.135)	859178	80.0000	80.72

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
=====	=====		=====	=====	=====	=====	=====	=====
M 152 benzo b,k Fluoranthene Totals	252					1817250	80.0000	

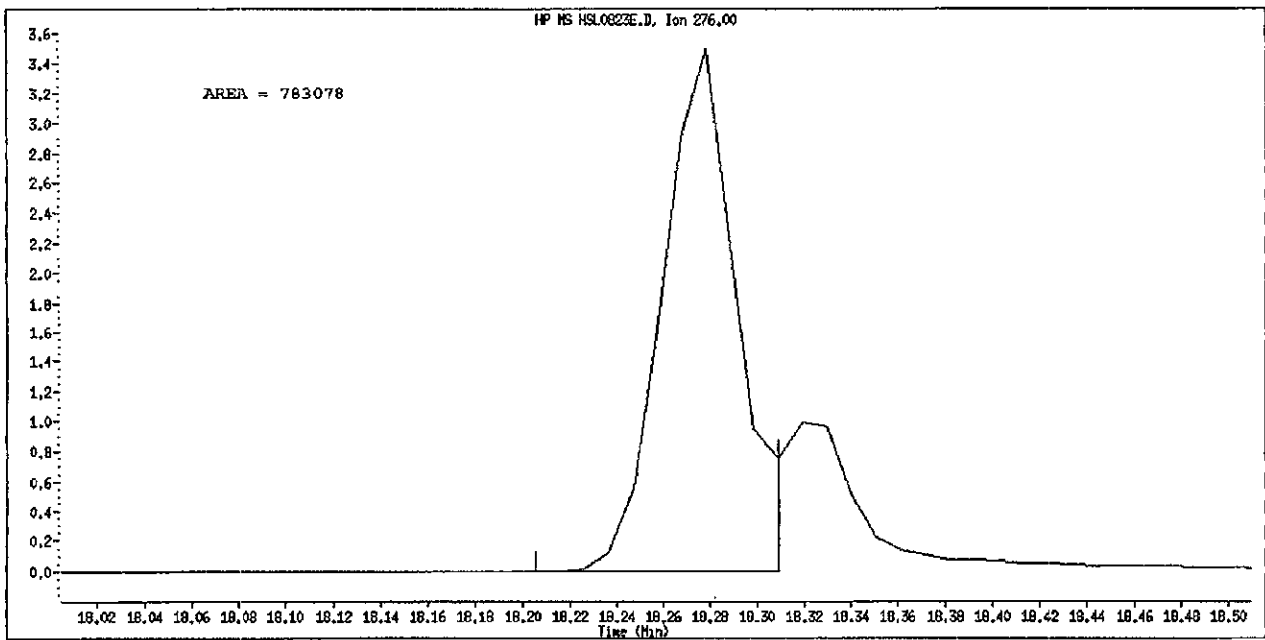
QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File Name: HSL0823E.D  
Inj. Date and Time: 23-AUG-2010 17:58  
Instrument ID: sv5.1  
Client ID: 8270F.M  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 08/24/2010



Original Integration



Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

TestAmerica WestSacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823E.D  
 Lab Smp Id: HSL 080 ug/ml CS-5 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 17:58  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 080 ug/ml CS-5;1;;5;;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0311;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 12:12 scotts Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:03 Cal File: AP90817E.D  
 Als bottle: 96 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	118396	40.0000	
* 2 Naphthalene-d8	136	5.604	5.604	(1.000)	521662	40.0000	
* 3 Acenaphthene-d10	164	7.718	7.718	(1.000)	277616	40.0000	
* 4 Phenanthrene-d10	188	9.697	9.697	(1.000)	436069	40.0000	
* 5 Chrysene-d12	240	14.132	14.132	(1.000)	433224	40.0000	
* 6 Perylene-d12	264	16.526	16.526	(1.000)	427303	40.0000	
\$ 7 2-Fluorophenol	112	2.961	2.961	(0.708)	349327	80.0000	79.78
\$ 8 Phenol-d5	99	3.831	3.831	(0.916)	457687	80.0000	81.61
\$ 9 2-Chlorophenol-d4	132	3.977	3.977	(0.950)	378697	80.0000	80.06
\$ 10 1,2-Dichlorobenzene-d4	152	4.391	4.391	(1.050)	231328	80.0000	78.60
\$ 11 Nitrobenzene-d5	82	4.816	4.816	(0.859)	378263	80.0000	80.71
\$ 12 2-Fluorobiphenyl	172	6.909	6.909	(0.895)	694956	80.0000	79.10
\$ 13 2,4,6-Tribromophenol	330	8.744	8.744	(1.133)	92395	80.0000	85.08
\$ 14 Terphenyl-d14	244	12.340	12.340	(0.873)	681363	80.0000	81.28
15 N-Nitrosodimethylamine	74	1.935	1.935	(0.463)	238169	80.0000	79.04
16 Pyridine	79	1.956	1.956	(0.468)	394667	80.0000	79.04
23 Aniline	93	3.883	3.883	(0.928)	565523	80.0000	80.53
24 Phenol	94	3.842	3.842	(0.918)	474870	80.0000	79.31
26 Bis(2-chloroethyl) ether	93	3.945	3.945	(0.943)	354092	80.0000	78.42
27 2-Chlorophenol	128	3.997	3.997	(0.955)	372871	80.0000	79.72
28 1,3-Dichlorobenzene	146	4.153	4.153	(0.993)	407979	80.0000	79.06
29 1,4-Dichlorobenzene	146	4.205	4.205	(1.005)	415272	80.0000	79.44
30 Benzyl Alcohol	108	4.339	4.339	(1.037)	256102	80.0000	79.82
31 1,2-Dichlorobenzene	146	4.401	4.401	(1.052)	389664	80.0000	78.94
32 2-Methylphenol	108	4.474	4.474	(1.069)	356302	80.0000	80.84
33 2,2'-oxybis(1-Chloropropane)	45	4.526	4.526	(1.082)	684328	80.0000	79.57
34 4-Methylphenol	108	4.640	4.640	(1.109)	380682	80.0000	81.14
36 Hexachloroethane	117	4.733	4.733	(1.131)	148577	80.0000	80.69
37 N-Nitrosodipropylamine	70	4.671	4.671	(1.116)	262998	80.0000	79.46
42 Nitrobenzene	77	4.837	4.837	(0.863)	376430	80.0000	81.14
44 Isophorone	82	5.096	5.096	(0.909)	719749	80.0000	81.72
45 2-Nitrophenol	139	5.199	5.199	(0.928)	208879	80.0000	83.71
46 2,4-Dimethylphenol	107	5.231	5.231	(0.933)	380072	80.0000	81.26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.355	5.355	(0.956)	421499	80.0000	80.54
49 2,4-Dichlorophenol	162	5.458	5.458	(0.974)	277736	80.0000	81.46
50 Benzoic Acid	122	5.344	5.344	(0.954)	224297	80.0000	78.13
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	288837	80.0000	78.26
52 Naphthalene	128	5.624	5.624	(1.004)	1171030	80.0000	79.87
54 4-Chloroaniline	127	5.624	5.624	(1.004)	146902	80.0000	82.46
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	140316	80.0000	80.22
60 4-Chloro-3-Methylphenol	107	6.288	6.288	(1.122)	328023	80.0000	82.79
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	715842	80.0000	80.76
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	168858	80.0000	79.39
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	173839	80.0000	58.28
70 2,4,5-Trichlorophenol	196	6.816	6.816	(0.883)	173839	80.0000	57.82
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	624038	80.0000	80.59
73 2-Nitroaniline	65	7.189	7.189	(0.932)	220569	80.0000	83.38
76 Dimethylphthalate	163	7.459	7.459	(0.966)	718184	80.0000	80.12
77 Acenaphthylene	152	7.531	7.531	(0.976)	1093153	80.0000	80.43
79 2,6-Dinitrotoluene	165	7.718	7.718	(1.000)	35207	80.0000	15.83
80 3-Nitroaniline	138	7.697	7.697	(0.997)	221843	80.0000	83.46
81 Acenaphthene	153	7.759	7.759	(1.005)	692306	80.0000	79.89
82 2,4-Dinitrophenol	184	7.821	7.821	(1.013)	98584	80.0000	77.70
83 Dibenzofuran	168	7.956	7.956	(1.031)	917683	80.0000	80.36
84 4-Nitrophenol	109	7.894	7.894	(1.023)	94857	80.0000	79.98
86 2,4-Dinitrotoluene	165	8.018	8.018	(1.039)	224616	80.0000	78.29
91 Fluorene	166	8.402	8.402	(1.089)	750264	80.0000	80.13
92 Diethylphthalate	149	8.350	8.350	(1.082)	746547	80.0000	79.46
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	307153	80.0000	79.91
94 4-Nitroaniline	138	8.474	8.474	(1.098)	223757	80.0000	85.21
97 4,6-Dinitro-2-methylphenol	198	8.536	8.536	(0.880)	120703	80.0000	76.86
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	626209	93.7000	91.73
100 Azobenzene	77	8.619	8.619	(0.889)	781341	80.0000	81.11
101 4-Bromophenyl-phenylether	248	9.075	9.075	(0.936)	164903	80.0000	78.82
108 Hexachlorobenzene	284	9.262	9.262	(0.955)	177558	80.0000	78.51
110 Pentachlorophenol	266	9.521	9.521	(0.982)	116533	80.0000	83.19
114 Phenanthrene	178	9.728	9.728	(1.003)	1069179	80.0000	78.31
115 Anthracene	178	9.801	9.801	(1.011)	1098761	80.0000	79.98
118 Carbazole	167	10.060	10.060	(1.037)	1005124	80.0000	78.30
120 Di-n-Butylphthalate	149	10.764	10.764	(1.110)	1260294	80.0000	81.07
126 Fluoranthene	202	11.624	11.624	(1.199)	987325	80.0000	80.02
127 Benzidine	184	11.894	11.894	(0.842)	755077	80.0000	79.41
128 Pyrene	202	11.987	11.987	(0.848)	1092442	80.0000	81.22
134 3,3'-dimethylbenzidine	212	13.200	13.200	(0.934)	657222	80.0000	78.62
136 Butylbenzylphthalate	149	13.314	13.314	(0.942)	581081	80.0000	83.49
138 Benzo(a)Anthracene	228	14.101	14.101	(0.998)	927617	80.0000	80.99
139 Chrysene	228	14.174	14.174	(1.003)	938282	80.0000	79.18
140 3,3'-Dichlorobenzidine	252	14.132	14.132	(1.000)	345775	80.0000	83.05
141 Bis(2-ethylhexyl)Phthalate	149	14.433	14.433	(1.021)	803315	80.0000	83.49
142 Di-n-octylphthalate	149	15.490	15.490	(1.096)	1314136	80.0000	78.76
144 Benzo(b)fluoranthene	252	15.936	15.936	(0.964)	634970	80.0000	82.31
145 Benzo(k)fluoranthene	252	15.977	15.977	(0.967)	982280	80.0000	82.59
147 Benzo(e)pyrene	252	16.360	16.360	(0.990)	828798	80.0000	82.41
148 Benzo(a)pyrene	252	16.433	16.433	(0.994)	906314	80.0000	81.64
151 Indeno(1,2,3-cd)pyrene	276	18.278	18.278	(1.106)	961862	80.0000	87.46
152 Dibenzo(a,h)anthracene	278	18.329	18.329	(1.109)	835131	80.0000	82.93
153 Benzo(g,h,i)perylene	276	18.754	18.754	(1.135)	859178	80.0000	79.90

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
=====	=====		====	=====	=====	=====	=====	=====
M 162 benzo b,k Fluoranthene Totals	252					1817250	80.0000	82.46 (A)

QC Flag Legend

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

TestAmerica WestSacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL0823E.D  
 Lab Smp Id: HSL 080 ug/ml CS-5  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0311;0;8270F.M

Calibration Date: 23-AUG-2010  
 Calibration Time: 16:14  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	118396	5.34
2 Naphthalene-d8	494728	247364	989456	521662	5.44
3 Acenaphthene-d10	264752	132376	529504	277616	4.86
4 Phenanthrene-d10	415811	207906	831622	436069	4.87
5 Chrysene-d12	431516	215758	863032	433224	0.40
6 Perylene-d12	416460	208230	832920	427303	2.60

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	0.00
2 Naphthalene-d8	5.60	5.10	6.10	5.60	0.00
3 Acenaphthene-d10	7.72	7.22	8.22	7.72	0.00
4 Phenanthrene-d10	9.70	9.20	10.20	9.70	0.00
5 Chrysene-d12	14.13	13.63	14.63	14.13	0.00
6 Perylene-d12	16.53	16.03	17.03	16.53	0.00

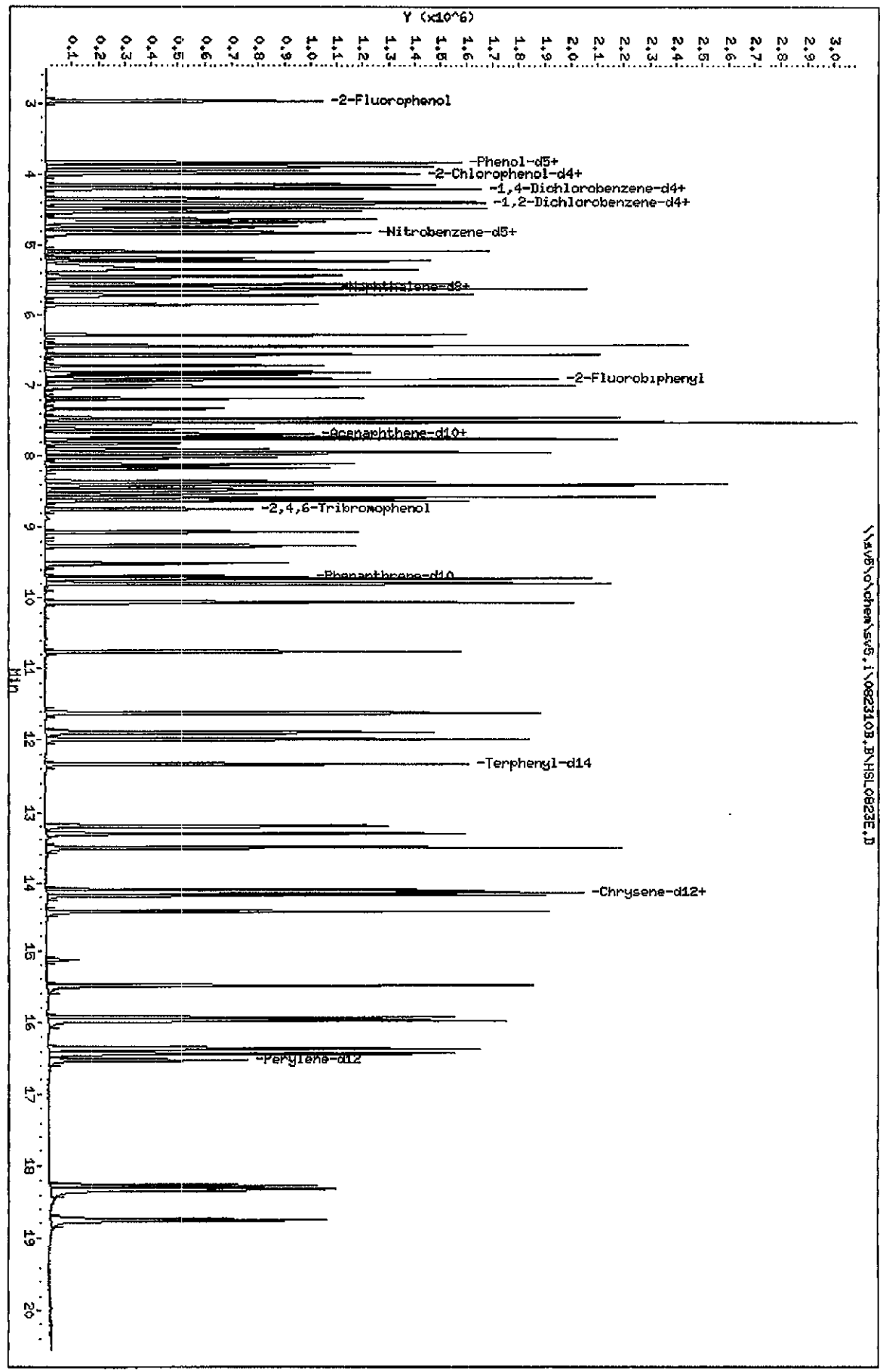
AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\sv5\chem\sv5.1\0823103.B\HSL0823E.D  
Date: 23-AUG-2010 17:58  
Client ID: 8270F.H  
Sample Info: HSL\_080 ug/ml CS-B111511;4  
Column phase:

Instrument: sv5.1  
Operator: KT  
Column diameter: 2.00

\\sv5\chem\sv5.1\0823103.B\HSL0823E.D



TestAmerica WestSacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823F.D  
 Lab Smp Id: HSL 120 ug/ml CS-6 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 18:24  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 120 ug/ml CS-6;1;;6;;;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0312;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 15:55 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:03 Cal File: AP90817E.D  
 Als bottle: 97 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT SIG	AMOUNTS					CAL-AMT ( NG)	ON-COL ( NG)
		MASS	RT	EXP RT	REL RT	RESPONSE		
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	139998	40.0000	(Q)	
* 2 Naphthalene-d8	136	5.604	5.604	(1.000)	623524	40.0000		
* 3 Acenaphthene-d10	164	7.718	7.718	(1.000)	330719	40.0000		
* 4 Phenanthrene-d10	188	9.697	9.697	(1.000)	502993	40.0000		
* 5 Chrysene-d12	240	14.132	14.132	(1.000)	514783	40.0000		
* 6 Perylene-d12	264	16.526	16.526	(1.000)	517085	40.0000		
\$ 7 2-Fluorophenol	112	2.961	2.961	(0.708)	647929	120.000	126.2	
\$ 8 Phenol-d5	99	3.831	3.831	(0.916)	829177	120.000	125.2	
\$ 9 2-Chlorophenol-d4	132	3.987	3.987	(0.953)	688487	120.000	123.6	
\$ 10 1,2-Dichlorobenzene-d4	152	4.391	4.391	(1.050)	415463	120.000	119.6	
\$ 11 Nitrobenzene-d5	82	4.816	4.816	(0.859)	688897	120.000	124.4	
\$ 12 2-Fluorobiphenyl	172	6.920	6.920	(0.897)	1275912	120.000	122.0	
\$ 13 2,4,6-Tribromophenol	330	8.754	8.754	(1.134)	169029	120.000	132.5	
\$ 14 Terphenyl-d14	244	12.340	12.340	(0.873)	1231900	120.000	121.8	
15 N-Nitrosodimethylamine	74	1.935	1.935	(0.463)	441948	120.000	124.4	
16 Pyridine	79	1.956	1.956	(0.468)	711971	120.000	121.0	
23 Aniline	93	3.883	3.883	(0.928)	1038009	120.000	125.3	
24 Phenol	94	3.842	3.842	(0.918)	865471	120.000	124.1	
26 Bis(2-chloroethyl)ether	93	3.945	3.945	(0.943)	656521	120.000	123.1	
27 2-Chlorophenol	128	3.997	3.997	(0.955)	674566	120.000	121.8	
28 1,3-Dichlorobenzene	146	4.153	4.153	(0.993)	738531	120.000	121.5	
29 1,4-Dichlorobenzene	146	4.205	4.205	(1.005)	762673	120.000	123.6	
30 Benzyl Alcohol	108	4.350	4.350	(1.040)	482260	120.000	127.9	
31 1,2-Dichlorobenzene	146	4.401	4.401	(1.052)	697407	120.000	119.5	
32 2-Methylphenol	108	4.474	4.474	(1.069)	651136	120.000	124.9	
33 2,2'-oxybis(1-Chloropropane)	45	4.526	4.526	(1.082)	1247327	120.000	120.2	
34 4-Methylphenol	108	4.640	4.640	(1.109)	696004	120.000	125.5	
36 Hexachloroethane	117	4.733	4.733	(1.131)	267836	120.000	123.4	
37 N-Nitrosodipropylamine	70	4.681	4.681	(1.119)	486640	120.000	124.0	
42 Nitrobenzene	77	4.837	4.837	(0.863)	680661	120.000	122.7	
44 Isophorone	82	5.096	5.096	(0.909)	1331537	120.000	126.2	
45 2-Nitrophenol	139	5.199	5.199	(0.928)	385434	120.000	131.6	
46 2,4-Dimethylphenol	107	5.241	5.241	(0.935)	698549	120.000	125.2	

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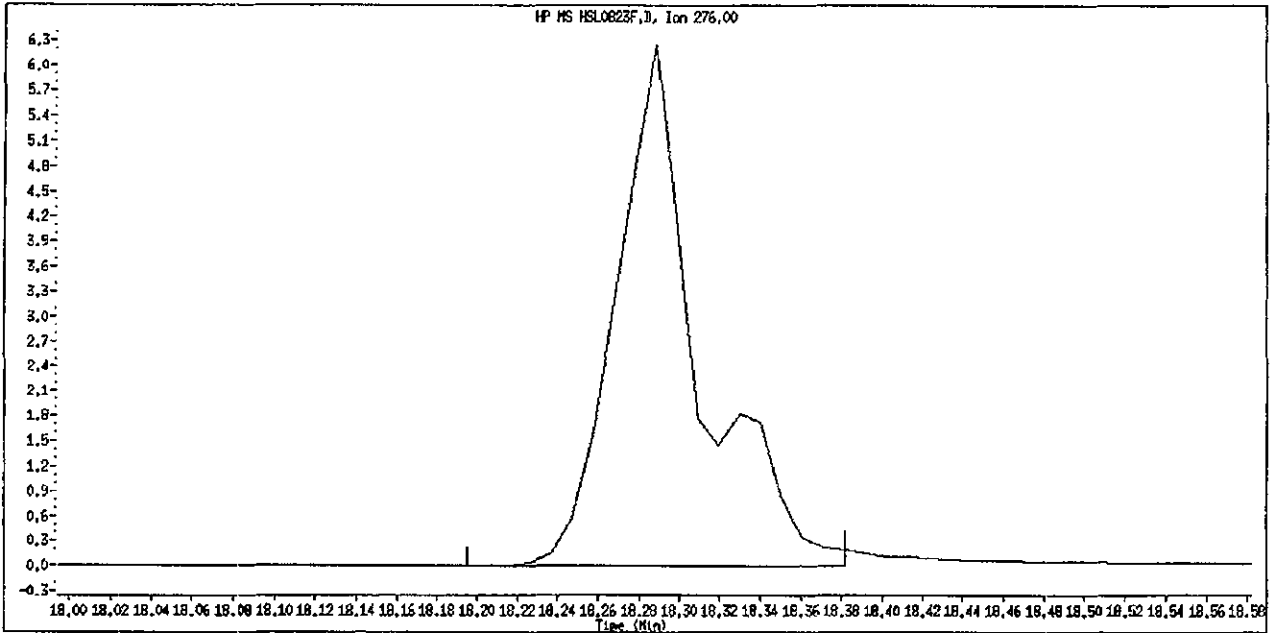
Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.355	5.355	(0.956)	747512	120.000	119.0
49 2,4-Dichlorophenol	162	5.458	5.458	(0.974)	508025	120.000	125.4
50 Benzoic Acid	122	5.365	5.365	(0.957)	443415	120.000	140.0
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	529852	120.000	120.5
52 Naphthalene	128	5.635	5.635	(1.006)	2106745	120.000	121.3
54 4-Chloroaniline	127	5.718	5.718	(1.020)	838279	120.000	136.0(H)
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	252144	120.000	121.4
60 4-Chloro-3-Methylphenol	107	6.287	6.287	(1.122)	601198	120.000	126.9
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	1305904	120.000	122.8
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	321896	120.000	129.8
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	316513	120.000	127.8
70 2,4,5-Trichlorophenol	196	6.857	6.857	(0.889)	339511	120.000	126.0(H)
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	1113383	120.000	120.5
73 2-Nitroaniline	65	7.189	7.189	(0.932)	402791	120.000	120.7
76 Dimethylphthalate	163	7.469	7.469	(0.968)	1315619	120.000	122.7
77 Acenaphthylene	152	7.531	7.531	(0.976)	2006990	120.000	124.0
79 2,6-Dinitrotoluene	165	7.541	7.541	(0.977)	305996	120.000	129.3(H)
80 3-Nitroaniline	138	7.697	7.697	(0.997)	389682	120.000	122.4
81 Acenaphthene	153	7.759	7.759	(1.005)	1245725	120.000	120.9
82 2,4-Dinitrophenol	184	7.821	7.821	(1.013)	196121	120.000	140.3
83 Dibenzofuran	168	7.956	7.956	(1.031)	1636051	120.000	120.2
84 4-Nitrophenol	109	7.904	7.904	(1.024)	179608	120.000	128.6
86 2,4-Dinitrotoluene	165	8.018	8.018	(1.039)	410093	120.000	120.9
91 Fluorene	166	8.402	8.402	(1.089)	1360805	120.000	122.3
92 Diethylphthalate	149	8.360	8.360	(1.083)	1343713	120.000	119.4
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	539486	120.000	117.4
94 4-Nitroaniline	138	8.484	8.484	(1.099)	387157	120.000	124.4
97 4,6-Dinitro-2-methylphenol	198	8.547	8.547	(0.881)	236110	120.000	142.5
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	1125545	141.000	143.6
100 Azobenzene	77	8.619	8.619	(0.889)	1367761	120.000	122.1
101 4-Bromophenyl-phenylether	248	9.075	9.075	(0.936)	306346	120.000	128.5
108 Hexachlorobenzene	284	9.272	9.272	(0.956)	322782	120.000	124.2
110 Pentachlorophenol	266	9.521	9.521	(0.982)	221518	120.000	141.2
114 Phenanthrene	178	9.738	9.738	(1.004)	1929658	120.000	123.1
115 Anthracene	178	9.801	9.801	(1.011)	1973943	120.000	125.1
118 Carbazole	167	10.060	10.060	(1.037)	1862634	120.000	126.4
120 Di-n-Butylphthalate	149	10.764	10.764	(1.110)	2369090	120.000	133.7
126 Fluoranthene	202	11.624	11.624	(1.199)	1814661	120.000	129.8
127 Benzidine	184	11.894	11.894	(0.842)	1380400	120.000	121.1
128 Pyrene	202	11.998	11.998	(0.849)	1979871	120.000	121.4
134 3,3'-dimethylbenzidine	212	13.200	13.200	(0.934)	1241986	120.000	124.9
136 Butylbenzylphthalate	149	13.314	13.314	(0.942)	1073884	120.000	128.5
138 Benzo(a)Anthracene	228	14.101	14.101	(0.998)	1701674	120.000	124.5
139 Chrysene	228	14.184	14.184	(1.004)	1701698	120.000	120.5
140 3,3'-Dichlorobenzidine	252	14.143	14.143	(1.001)	640756	120.000	130.1
141 bis(2-ethylhexyl) Phthalate	149	14.433	14.433	(1.021)	1494173	120.000	130.3
142 Di-n-octylphthalate	149	15.490	15.490	(1.096)	2478465	120.000	126.7
144 Benzo(b) fluoranthene	252	15.946	15.946	(0.965)	1659701	120.000	137.8
145 Benzo(k) fluoranthene	252	15.987	15.987	(0.967)	1677335	120.000	113.0
147 Benzo(e) pyrene	252	16.371	16.371	(0.991)	1515891	120.000	123.8
148 Benzo(a) pyrene	252	16.443	16.443	(0.995)	1659729	120.000	122.6
151 Indeno(1,2,3-cd) pyrene	276	18.288	18.288	(1.107)	1493689	120.000	133.0(M)
152 Dibenzo(a,h) anthracene	278	18.340	18.340	(1.110)	1555660	120.000	128.6
153 Benzo(g,h,i) perylene	276	18.765	18.765	(1.135)	1624809	120.000	125.6

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
===== M 162 benzo b,k Fluoranthene Totals	252					3337036	120.000	=====

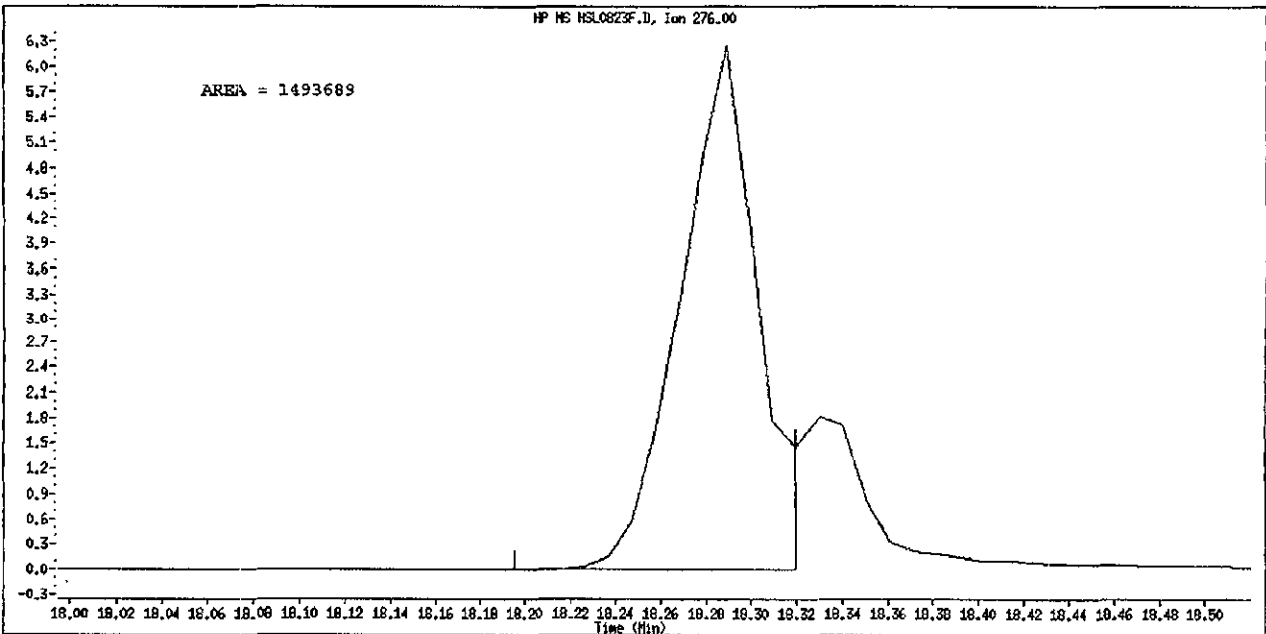
QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File Name: HSL0823F.D  
Inj. Date and Time: 23-AUG-2010 18:24  
Instrument ID: sv5.1  
Client ID: 8270F.M  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 08/24/2010



Original Integration



Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

TestAmerica WestSacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823F.D  
 Lab Smp Id: HSL 120 ug/ml CS-6 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 18:24  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 120 ug/ml CS-6;1;;6;;;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0312;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 12:12 scotts Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:29 Cal File: AP90817F.D  
 Als bottle: 97 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152		4.184	4.184	(1.000)	139998	40.0000	
* 2 Naphthalene-d8	136		5.604	5.604	(1.000)	623524	40.0000	
* 3 Acenaphthene-d10	164		7.718	7.718	(1.000)	330719	40.0000	
* 4 Phenanthrene-d10	188		9.697	9.697	(1.000)	502993	40.0000	
* 5 Chrysene-d12	240		14.132	14.132	(1.000)	514783	40.0000	
* 6 Perylene-d12	264		16.526	16.526	(1.000)	517085	40.0000	
\$ 7 2-Fluorophenol	112		2.961	2.961	(0.708)	647929	120.000	125.1
\$ 8 Phenol-d5	99		3.831	3.831	(0.916)	829177	120.000	125.0
\$ 9 2-Chlorophenol-d4	132		3.987	3.987	(0.953)	688487	120.000	123.1
\$ 10 1,2-Dichlorobenzene-d4	152		4.391	4.391	(1.050)	415463	120.000	119.4
\$ 11 Nitrobenzene-d5	62		4.816	4.816	(0.859)	688897	120.000	123.0
\$ 12 2-Fluorobiphenyl	172		6.920	6.920	(0.897)	1275912	120.000	121.9
\$ 13 2,4,6-Tribromophenol	330		8.754	8.754	(1.134)	169029	120.000	130.6
\$ 14 Terphenyl-d14	244		12.340	12.340	(0.873)	1231900	120.000	123.7
15 N-Nitrosodimethylamine	74		1.935	1.935	(0.463)	441948	120.000	124.0
16 Pyridine	79		1.956	1.956	(0.468)	711971	120.000	120.6
23 Aniline	93		3.883	3.883	(0.928)	1038009	120.000	125.0
24 Phenol	94		3.842	3.842	(0.918)	865471	120.000	122.2
26 Bis(2-chloroethyl)ether	93		3.945	3.945	(0.943)	656521	120.000	123.0
27 2-Chlorophenol	128		3.997	3.997	(0.955)	674566	120.000	122.0
28 1,3-Dichlorobenzene	146		4.153	4.153	(0.993)	738531	120.000	121.0
29 1,4-Dichlorobenzene	146		4.205	4.205	(1.005)	762673	120.000	123.4
30 Benzyl Alcohol	108		4.350	4.350	(1.040)	482260	120.000	127.1
31 1,2-Dichlorobenzene	146		4.401	4.401	(1.052)	697407	120.000	119.5
32 2-Methylphenol	108		4.474	4.474	(1.069)	651136	120.000	124.9
33 2,2'-oxybis(1-Chloropropane)	45		4.526	4.526	(1.082)	1247327	120.000	122.6
34 4-Methylphenol	108		4.640	4.640	(1.109)	696004	120.000	125.4
36 Hexachloroethane	117		4.733	4.733	(1.131)	267836	120.000	123.0
37 N-Nitrosodipropylamine	70		4.681	4.681	(1.119)	486640	120.000	124.3
42 Nitrobenzene	77		4.837	4.837	(0.863)	680661	120.000	122.7
44 Isophorone	82		5.096	5.096	(0.909)	1331537	120.000	126.5
45 2-Nitrophenol	139		5.199	5.199	(0.928)	385434	120.000	129.2
46 2,4-Dimethylphenol	107		5.241	5.241	(0.935)	698549	120.000	124.9

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
47 Bis (2-chloroethoxy)methane	93	5.355	5.355	(0.956)	747512	120.000	119.5
49 2,4-Dichlorophenol	162	5.458	5.458	(0.974)	508025	120.000	124.7
50 Benzoic Acid	122	5.365	5.365	(0.957)	443415	120.000	124.7
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	529852	120.000	120.1
52 Naphthalene	128	5.635	5.635	(1.006)	2106745	120.000	120.2
54 4-Chloroaniline	127	5.635	5.635	(1.006)	258254	120.000	121.3
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	252144	120.000	120.6
60 4-Chloro-3-Methylphenol	107	6.287	6.287	(1.122)	601198	120.000	126.9
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	1305904	120.000	123.3
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	321896	120.000	127.0
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	316513	120.000	89.07
70 2,4,5-Trichlorophenol	196	6.816	6.816	(0.883)	316513	120.000	88.37
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	1113383	120.000	120.7
73 2-Nitroaniline	65	7.189	7.189	(0.932)	402791	120.000	127.8
76 Dimethylphthalate	163	7.469	7.469	(0.968)	1315619	120.000	123.2
77 Acenaphthylene	152	7.531	7.531	(0.976)	2006990	120.000	124.0
79 2,6-Dinitrotoluene	165	7.718	7.718	(1.000)	44200	120.000	15.68
80 3-Nitroaniline	138	7.697	7.697	(0.997)	389682	120.000	123.1
81 Acenaphthene	153	7.759	7.759	(1.005)	1245725	120.000	120.8
82 2,4-Dinitrophenol	184	7.821	7.821	(1.013)	196121	120.000	122.3
83 Dibenzofuran	168	7.956	7.956	(1.031)	1636051	120.000	120.3
84 4-Nitrophenol	109	7.904	7.904	(1.024)	179608	120.000	127.1
86 2,4-Dinitrotoluene	165	8.018	8.018	(1.039)	410093	120.000	118.9
91 Fluorene	166	8.402	8.402	(1.089)	1360805	120.000	122.0
92 Diethylphthalate	149	8.360	8.360	(1.083)	1343713	120.000	120.0
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	539486	120.000	117.8
94 4-Nitroaniline	138	8.484	8.484	(1.099)	387157	120.000	123.8
97 4,6-Dinitro-2-methylphenol	198	8.547	8.547	(0.881)	236110	120.000	123.9
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	1125545	141.000	142.9
100 Azobenzene	77	8.619	8.619	(0.889)	1367761	120.000	123.1
101 4-Bromophenyl-phenylether	248	9.075	9.075	(0.936)	306346	120.000	127.0
108 Hexachlorobenzene	284	9.272	9.272	(0.956)	322782	120.000	123.7
110 Pentachlorophenol	266	9.521	9.521	(0.982)	221518	120.000	137.1
114 Phenanthrene	178	9.738	9.738	(1.004)	1929658	120.000	122.5
115 Anthracene	178	9.801	9.801	(1.011)	1973943	120.000	124.6
118 Carbazole	167	10.060	10.060	(1.037)	1862634	120.000	125.8
120 Di-n-Butylphthalate	149	10.764	10.764	(1.110)	2369090	120.000	132.1
126 Fluoranthene	202	11.624	11.624	(1.199)	1814661	120.000	127.5
127 Benzidine	184	11.894	11.894	(0.842)	1380400	120.000	120.7
128 Pyrene	202	11.998	11.998	(0.849)	1979871	120.000	123.9
134 3,3'-dimethylbenzidine	212	13.200	13.200	(0.934)	1241986	120.000	123.2
136 Butylbenzylphthalate	149	13.314	13.314	(0.942)	1073884	120.000	129.8
138 Benzo (a)Anthracene	228	14.101	14.101	(0.998)	1701674	120.000	125.0
139 Chrysene	228	14.184	14.184	(1.004)	1701698	120.000	120.8
140 3,3'-Dichlorobenzidine	252	14.143	14.143	(1.001)	640756	120.000	129.5
141 bis (2-ethylhexyl) Phthalate	149	14.433	14.433	(1.021)	1494173	120.000	130.7
142 Di-n-octylphthalate	149	15.490	15.490	(1.096)	2478465	120.000	122.2
144 Benzo (b) fluoranthene	252	15.946	15.946	(0.965)	1659701	120.000	135.2
145 Benzo (k) fluoranthene	252	15.987	15.987	(0.967)	1677335	120.000	116.5
147 Benzo (e) pyrene	252	16.371	16.371	(0.991)	1515891	120.000	124.6
148 Benzo (a) pyrene	252	16.443	16.443	(0.995)	1659729	120.000	123.6
151 Indeno (1,2,3-cd) pyrene	276	18.288	18.288	(1.107)	1803961	120.000	135.6
152 Dibenzo (a,h) anthracene	278	18.340	18.340	(1.110)	1555660	120.000	127.6
153 Benzo (g,h,i) perylene	276	18.765	18.765	(1.135)	1624809	120.000	124.9

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
M 162 benzo b,k Fluoranthene Totals	252				3337036	120.000	125.1 (A)

QC Flag Legend

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



TestAmerica WestSacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL0823F.D  
 Lab Smp Id: HSL 120 ug/ml CS-6  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0312;0;8270F.M

Calibration Date: 23-AUG-2010  
 Calibration Time: 16:14  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

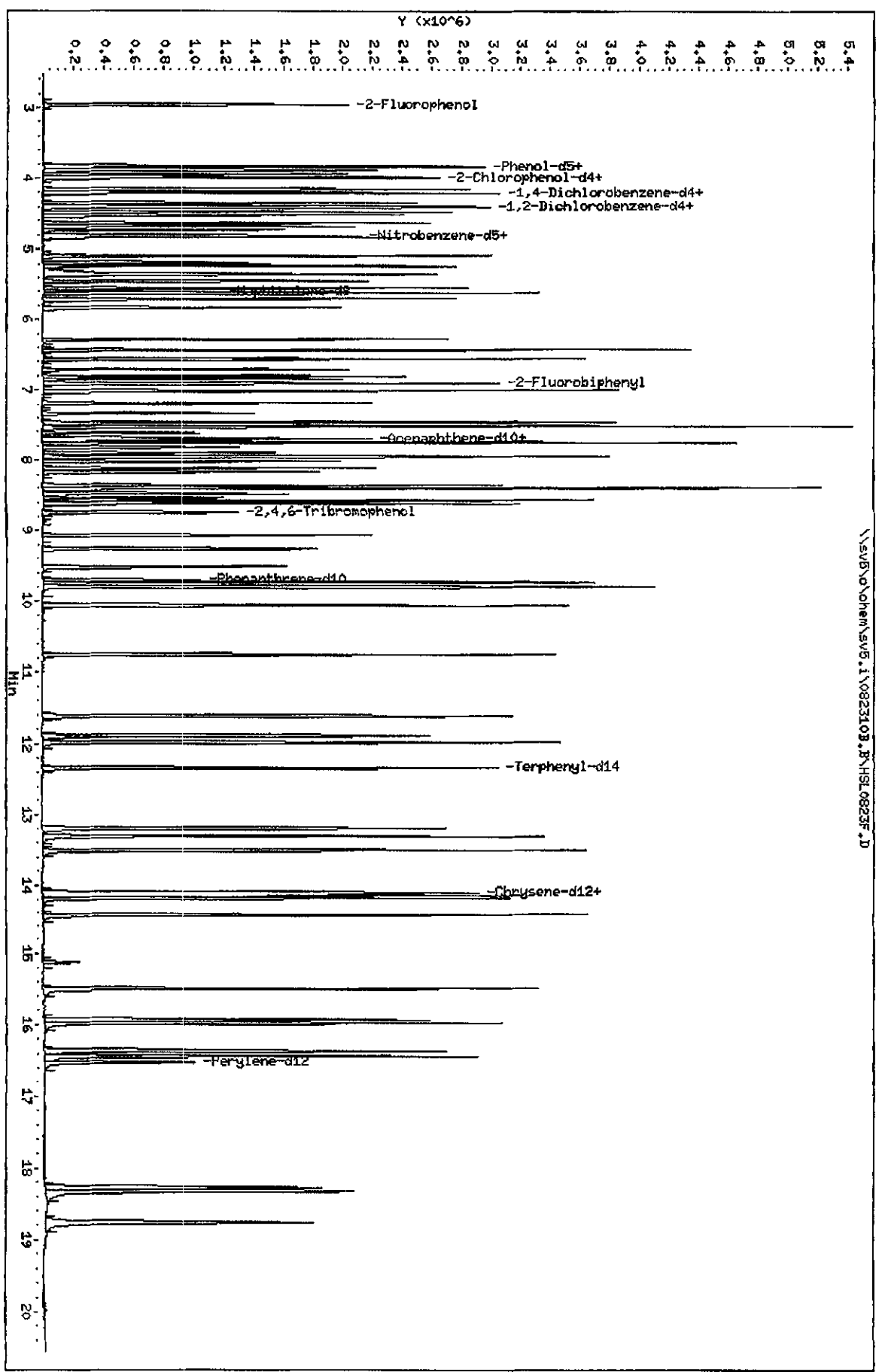
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	139998	24.55
2 Naphthalene-d8	494728	247364	989456	623524	26.03
3 Acenaphthene-d10	264752	132376	529504	330719	24.92
4 Phenanthrene-d10	415811	207906	831622	502993	20.97
5 Chrysene-d12	431516	215758	863032	514783	19.30
6 Perylene-d12	416460	208230	832920	517085	24.16

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	0.00
2 Naphthalene-d8	5.60	5.10	6.10	5.60	0.00
3 Acenaphthene-d10	7.72	7.22	8.22	7.72	0.00
4 Phenanthrene-d10	9.70	9.20	10.20	9.70	0.00
5 Chrysene-d12	14.13	13.63	14.63	14.13	0.00
6 Perylene-d12	16.53	16.03	17.03	16.53	0.00

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

Data File: \\svb\chem\sv5.1\0823103.B\HSL0823F.D  
 Date: 23-AUG-2010 18:24  
 Client ID: 8270F.M  
 Sample Info: HSL\_120 ug/ml CS-611161114  
 Column phase: 1

Instrument: sv5.1  
 Operator: KT  
 Column diameter: 2.00



TestAmerica WestSacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823G.D  
 Lab Smp Id: HSL\_160 ug/ml CS-7 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 18:50  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL\_160 ug/ml CS-7;1;;7;;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0313;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 16:08 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Dil bottle: 98 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14

Compounds	QUANT	SIG	AMOUNTS				CAL-AMT ( NG)	ON-COL ( NG)
			MASS	RT	EXP RT	REL RT		
* 1 1,4-Dichlorobenzene-d4	152		4.184	4.184	(1.000)	122519	40.0000	
* 2 Naphthalene-d8	136		5.604	5.604	(1.000)	543074	40.0000	
* 3 Acenaphthene-d10	164		7.718	7.718	(1.000)	280308	40.0000	
* 4 Phenanthrene-d10	188		9.697	9.697	(1.000)	438581	40.0000	
* 5 Chrysene-d12	240		14.132	14.132	(1.000)	456651	40.0000	
* 6 Perylene-d12	264		16.526	16.526	(1.000)	471962	40.0000	
\$ 7 2-Fluorophenol	112		2.961	2.961	(0.708)	749462	160.000	165.4 (A)
\$ 8 Phenol-d5	99		3.831	3.831	(0.916)	945103	160.000	162.8 (A)
\$ 9 2-Chlorophenol-d4	132		3.987	3.987	(0.953)	797920	160.000	163.0 (A)
\$ 10 1,2-Dichlorobenzene-d4	152		4.391	4.391	(1.050)	481556	160.000	158.1
\$ 11 Nitrobenzene-d5	82		4.816	4.816	(0.859)	792777	160.000	163.6 (A)
\$ 12 2-Fluorobiphenyl	172		6.920	6.920	(0.897)	1444584	160.000	162.8 (A)
\$ 13 2,4,6-Tribromophenol	330		8.754	8.754	(1.134)	187310	160.000	170.8 (A)
\$ 14 Terphenyl-d14	244		12.340	12.340	(0.873)	1405698	160.000	159.1
15 N-Nitrosodimethylamine	74		1.935	1.935	(0.463)	515512	160.000	165.3 (A)
16 Pyridine	79		1.956	1.956	(0.468)	845217	160.000	163.6 (A)
23 Aniline	93		3.883	3.883	(0.928)	1204059	160.000	165.7 (A)
24 Phenol	94		3.842	3.842	(0.918)	1006145	160.000	164.7 (AM)
26 Bis(2-chloroethyl) ether	93		3.945	3.945	(0.943)	750778	160.000	160.7 (A)
27 2-Chlorophenol	128		3.997	3.997	(0.955)	781672	160.000	161.5 (A)
28 1,3-Dichlorobenzene	146		4.153	4.153	(0.993)	851241	160.000	159.4
29 1,4-Dichlorobenzene	146		4.205	4.205	(1.005)	872509	160.000	161.3 (A)
30 Benzyl Alcohol	108		4.350	4.350	(1.040)	561512	160.000	169.1 (A)
31 1,2-Dichlorobenzene	146		4.401	4.401	(1.052)	808819	160.000	158.3
32 2-Methylphenol	108		4.474	4.474	(1.069)	762010	160.000	167.1 (A)
33 2,2'-oxybis(1-Chloropropane)	45		4.526	4.526	(1.082)	1424716	160.000	160.1 (A)
34 4-Methylphenol	108		4.640	4.640	(1.109)	800301	160.000	164.8 (A)
36 Hexachloroethane	117		4.733	4.733	(1.131)	307899	160.000	161.6 (A)
37 N-Nitrosodipropylamine	70		4.681	4.681	(1.119)	555484	160.000	162.6 (A)
42 Nitrobenzene	77		4.837	4.837	(0.863)	783638	160.000	162.2 (A)
44 Isophorone	82		5.096	5.096	(0.909)	1508862	160.000	164.6 (A)
45 2-Nitrophenol	139		5.199	5.199	(0.928)	444303	160.000	171.0 (A)
46 2,4-Dimethylphenol	107		5.241	5.241	(0.935)	801781	160.000	164.6 (A)
47 Bis(2-chloroethoxy) methane	93		5.355	5.355	(0.956)	870078	160.000	159.7

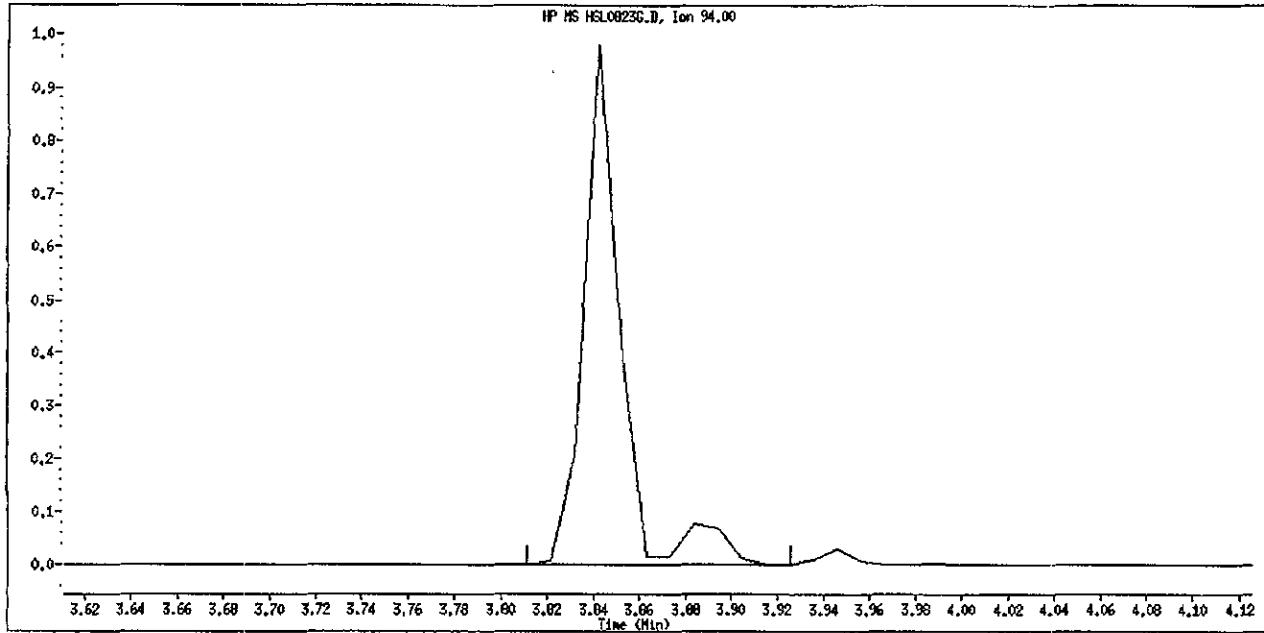
*9/8/2010*

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
49 2,4-Dichlorophenol	162	5.458	5.458	(0.974)	577580	160.000	162.7 (A)
50 Benzoic Acid	122	5.376	5.376	(0.959)	499323	160.000	157.7
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	615729	160.000	160.2 (A)
52 Naphthalene	128	5.635	5.635	(1.006)	2419358	160.000	160.1 (A)
54 4-Chloroaniline	127	5.718	5.718	(1.020)	963709	160.000	161.6 (AH)
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	289552	160.000	159.0
60 4-Chloro-3-Methylphenol	107	6.288	6.288	(1.122)	685134	160.000	166.1 (A)
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	1470925	160.000	159.4
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	359521	160.000	167.4 (A)
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	359345	160.000	170.0 (A)
70 2,4,5-Trichlorophenol	196	6.857	6.857	(0.889)	399633	160.000	173.6 (AH)
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	1261210	160.000	161.3 (A)
73 2-Nitroaniline	65	7.189	7.189	(0.932)	448321	160.000	167.8 (A)
76 Dimethylphthalate	163	7.469	7.469	(0.968)	1472266	160.000	162.7 (A)
77 Acenaphthylene	152	7.531	7.531	(0.976)	2276578	160.000	165.9 (A)
79 2,6-Dinitrotoluene	165	7.541	7.541	(0.977)	347638	160.000	171.7 (AH)
80 3-Nitroaniline	138	7.697	7.697	(0.997)	447165	160.000	166.6 (A)
81 Acenaphthene	153	7.759	7.759	(1.005)	1416489	160.000	162.1 (A)
82 2,4-Dinitrophenol	184	7.821	7.821	(1.013)	226471	160.000	159.0
83 Dibenzofuran	168	7.956	7.956	(1.031)	1851275	160.000	160.6 (A)
84 4-Nitrophenol	109	7.904	7.904	(1.024)	202262	160.000	168.9 (A)
86 2,4-Dinitrotoluene	165	8.018	8.018	(1.039)	473861	160.000	161.4 (A)
91 Fluorene	166	8.402	8.402	(1.089)	1512959	160.000	160.0 (A)
92 Diethylphthalate	149	8.360	8.360	(1.083)	1515994	160.000	159.8
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	605637	160.000	156.0
94 4-Nitroaniline	138	8.484	8.484	(1.099)	452535	160.000	170.7 (A)
97 4,6-Dinitro-2-methylphenol	198	8.547	8.547	(0.881)	272263	160.000	158.3
98 N-Nitrosodiphenylamine	169	8.588	8.588	(0.886)	1275595	160.000	185.8 (A)
100 Azobenzene	77	8.619	8.619	(0.889)	1555168	160.000	160.5 (A)
101 4-Bromophenyl-phenylether	248	9.075	9.075	(0.936)	341660	160.000	162.4 (A)
108 Hexachlorobenzene	284	9.272	9.272	(0.956)	357122	160.000	157.0
110 Pentachlorophenol	266	9.531	9.531	(0.983)	252287	160.000	179.1 (A)
114 Phenanthrene	178	9.738	9.738	(1.004)	2195697	160.000	159.9
115 Anthracene	178	9.801	9.801	(1.011)	2236741	160.000	161.9 (A)
118 Carbazole	167	10.060	10.060	(1.037)	2096476	160.000	162.4 (A)
120 Di-n-Butylphthalate	149	10.764	10.764	(1.110)	2711327	160.000	173.4 (A)
126 Fluoranthene	202	11.624	11.624	(1.199)	2107239	160.000	169.8 (A)
127 Benzidine	184	11.894	11.894	(0.842)	1635330	160.000	159.7
128 Pyrene	202	11.998	11.998	(0.849)	2241877	160.000	158.1
134 3,3'-dimethylbenzidine	212	13.200	13.200	(0.934)	1427358	160.000	158.5
136 Butylbenzylphthalate	149	13.314	13.314	(0.942)	1229163	160.000	167.5 (A)
138 Benzo (a) Anthracene	228	14.112	14.112	(0.999)	1993586	160.000	165.1 (A)
139 Chrysene	228	14.184	14.184	(1.004)	1984227	160.000	158.9
140 3,3'-Dichlorobenzidine	252	14.143	14.143	(1.001)	746709	160.000	170.2 (A)
141 bis(2-ethylhexyl) Phtalate	149	14.433	14.433	(1.021)	1705185	160.000	168.1 (A)
142 Di-n-octylphthalate	149	15.490	15.490	(1.096)	2907367	160.000	159.0
144 Benzo (b) fluoranthene	252	15.946	15.946	(0.965)	1951173	160.000	174.1 (A)
145 Benzo (k) fluoranthene	252	15.987	15.987	(0.967)	2022702	160.000	154.0
147 Benzo (e) pyrene	252	16.371	16.371	(0.991)	1827263	160.000	164.5 (A)
148 Benzo (a) pyrene	252	16.443	16.443	(0.995)	2012433	160.000	164.1 (A)
151 Indeno (1,2,3-cd) pyrene	276	18.288	18.288	(1.107)	1771827	160.000	170.0 (A)
152 Dibenzo (a,h) anthracene	278	18.340	18.340	(1.110)	1913427	160.000	172.0 (A)
153 Benzo (g,h,i) perylene	276	18.775	18.775	(1.136)	1962431	160.000	165.2 (A)
M 162 benzo b,k Fluoranthene Totals	252				3973875	160.000	163.2 (A)

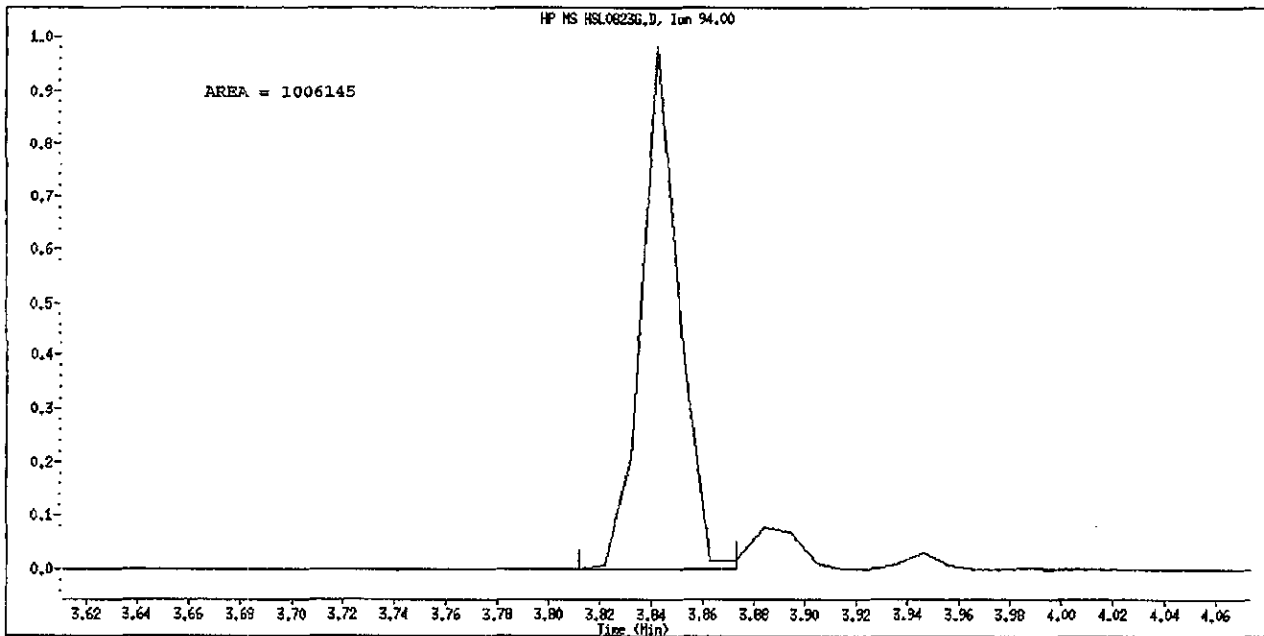
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File Name: HSL0823G.D  
Inj. Date and Time: 23-AUG-2010 18:50  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: Phenol  
CAS #: 108-95-2  
Report Date: 08/24/2010



Original Integration



Manual Integration

Manually Integrated By: scottsx

Manual Integration Reason: ~~Unknown~~ Poor chromatography R/S 8/24/10

TestAmerica WestSacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823G.D  
 Lab Smp Id: HSL\_160 ug/ml CS-7 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 18:50  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL\_160 ug/ml CS-7;1;;7;;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0313;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 12:12 scotts Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 98 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT	SIG	AMOUNTS				ON-COL	
			MASS	RT	EXP RT	REL RT		RESPONSE
* 1 1,4-Dichlorobenzene-d4	152		4.184	4.184	(1.000)	122519	40.0000	
* 2 Naphthalene-d8	136		5.604	5.604	(1.000)	543074	40.0000	
* 3 Acenaphthene-d10	164		7.718	7.718	(1.000)	280308	40.0000	
* 4 Phenanthrene-d10	188		9.697	9.697	(1.000)	438581	40.0000	
* 5 Chrysene-d12	240		14.132	14.132	(1.000)	456651	40.0000	
* 6 Perylene-d12	264		16.526	16.526	(1.000)	471962	40.0000	
§ 7 2-Fluorophenol	112		2.961	2.961	(0.708)	749462	160.000	165.4 (A)
§ 8 Phenol-d5	99		3.831	3.831	(0.916)	945103	160.000	162.8 (A)
§ 9 2-Chlorophenol-d4	132		3.987	3.987	(0.953)	797920	160.000	163.0 (A)
§ 10 1,2-Dichlorobenzene-d4	152		4.391	4.391	(2.050)	481556	160.000	158.1
§ 11 Nitrobenzene-d5	82		4.816	4.816	(0.859)	792777	160.000	162.5 (A)
§ 12 2-Fluorobiphenyl	172		6.920	6.920	(0.897)	1444584	160.000	162.8 (A)
§ 13 2,4,6-Tribromophenol	330		8.754	8.754	(1.134)	187310	160.000	170.8 (A)
§ 14 Terphenyl-d14	244		12.340	12.340	(0.873)	1405698	160.000	159.1
15 N-Nitrosodimethylamine	74		1.935	1.935	(0.463)	515512	160.000	165.3 (A)
16 Pyridine	79		1.956	1.956	(0.468)	845217	160.000	163.6 (A)
23 Aniline	93		3.883	3.883	(0.928)	1204059	160.000	165.7 (A)
24 Phenol	94		3.842	3.842	(0.918)	1103854	160.000	178.2 (A)
26 Bis(2-chloroethyl) ether	93		3.945	3.945	(0.943)	750778	160.000	160.7 (A)
27 2-Chlorophenol	128		3.997	3.997	(0.955)	781672	160.000	161.5 (A)
28 1,3-Dichlorobenzene	146		4.153	4.153	(0.993)	851241	160.000	159.4
29 1,4-Dichlorobenzene	146		4.205	4.205	(1.005)	872509	160.000	161.3 (A)
30 Benzyl Alcohol	108		4.350	4.350	(1.040)	561512	160.000	169.1 (A)
31 1,2-Dichlorobenzene	146		4.401	4.401	(1.052)	808819	160.000	158.3
32 2-Methylphenol	108		4.474	4.474	(1.069)	762010	160.000	167.1 (A)
33 2,2'-oxybis(1-Chloropropane)	45		4.526	4.526	(1.082)	1424716	160.000	160.1 (A)
34 4-Methylphenol	108		4.640	4.640	(1.109)	800301	160.000	164.8 (A)
36 Hexachloroethane	117		4.733	4.733	(1.131)	307899	160.000	162.6 (A)
37 N-Nitrosodipropylamine	70		4.681	4.681	(1.119)	555484	160.000	162.2 (A)
42 Nitrobenzene	77		4.837	4.837	(0.863)	783638	160.000	162.2 (A)
44 Isophorone	82		5.096	5.096	(0.909)	1508862	160.000	164.6 (A)
45 2-Nitrophenol	139		5.199	5.199	(0.928)	444303	160.000	171.0 (A)
46 2,4-Dimethylphenol	107		5.241	5.241	(0.935)	801781	160.000	164.6 (A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
47 Bis (2-chloroethoxy) methane	93	5.355	5.355	(0.956)	870078	160.000	159.7
49 2,4-Dichlorophenol	162	5.458	5.458	(0.974)	577580	160.000	162.7 (A)
50 Benzoic Acid	122	5.376	5.376	(0.959)	499323	160.000	157.7
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	615729	160.000	160.2 (A)
52 Naphthalene	128	5.635	5.635	(1.006)	2419358	160.000	158.5
54 4-Chloroaniline	127	5.635	5.635	(1.006)	303659	160.000	163.7 (A)
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	289552	160.000	159.0
60 4-Chloro-3-Methylphenol	107	6.288	6.288	(1.122)	685134	160.000	166.1 (A)
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	1470925	160.000	159.4
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	359521	160.000	167.4 (A)
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	359345	160.000	119.3
70 2,4,5-Trichlorophenol	196	6.816	6.816	(0.883)	359345	160.000	119.4
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	1261210	160.000	161.3 (A)
73 2-Nitroaniline	65	7.189	7.189	(0.932)	448321	160.000	167.8 (A)
76 Dimethylphthalate	163	7.469	7.469	(0.968)	1472266	160.000	162.7 (A)
77 Acenaphthylene	152	7.531	7.531	(0.976)	2276578	160.000	165.9 (A)
79 2,6-Dinitrotoluene	165	7.718	7.718	(1.000)	36736	160.000	16.36
80 3-Nitroaniline	138	7.697	7.697	(0.997)	447165	160.000	166.6 (A)
81 Acenaphthene	153	7.759	7.759	(1.005)	1416489	160.000	162.1 (A)
82 2,4-Dinitrophenol	184	7.821	7.821	(1.013)	226471	160.000	159.1
83 Dibenzofuran	168	7.956	7.956	(1.031)	1851275	160.000	160.6 (A)
84 4-Nitrophenol	109	7.904	7.904	(1.024)	202262	160.000	168.9 (A)
86 2,4-Dinitrotoluene	165	8.018	8.018	(1.039)	473861	160.000	161.4 (A)
91 Fluorene	166	8.402	8.402	(1.089)	1512959	160.000	160.0 (A)
92 Diethylphthalate	149	8.360	8.360	(1.083)	1515994	160.000	159.8
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	605637	160.000	156.0
94 4-Nitroaniline	138	8.484	8.484	(1.099)	452535	160.000	170.7 (A)
97 4,6-Dinitro-2-methylphenol	198	8.547	8.547	(0.881)	272263	160.000	158.3
98 N-Nitrosodiphenylamine	169	8.588	8.588	(0.886)	1275595	187.000	185.8 (A)
100 Azobenzene	77	8.619	8.619	(0.889)	1555168	160.000	160.5 (A)
101 4-Bromophenyl-phenylether	248	9.075	9.075	(0.936)	341660	160.000	162.4 (A)
108 Hexachlorobenzene	284	9.272	9.272	(0.956)	357122	160.000	157.0
110 Pentachlorophenol	266	9.531	9.531	(0.983)	252287	160.000	179.1 (A)
114 Phenanthrene	178	9.738	9.738	(1.004)	2195697	160.000	159.9
115 Anthracene	178	9.801	9.801	(1.011)	2236741	160.000	161.9 (A)
118 Carbazole	167	10.060	10.060	(1.037)	2096476	160.000	162.4 (A)
120 Di-n-Butylphthalate	149	10.764	10.764	(1.110)	2711327	160.000	173.4 (A)
126 Fluoranthene	202	11.624	11.624	(1.199)	2107239	160.000	169.8 (A)
127 Benzidine	184	11.894	11.894	(0.842)	1635330	160.000	159.7
128 Pyrene	202	11.998	11.998	(0.849)	2241877	160.000	158.1
134 3,3'-dimethylbenzidine	212	13.200	13.200	(0.934)	1427358	160.000	158.5
136 Butylbenzylphthalate	149	13.314	13.314	(0.942)	1229163	160.000	167.5 (A)
138 Benzo (a) Anthracene	228	14.112	14.112	(0.999)	1993586	160.000	165.1 (A)
139 Chrysene	228	14.184	14.184	(1.004)	1984227	160.000	158.9
140 3,3'-Dichlorobenzidine	252	14.143	14.143	(1.001)	746709	160.000	170.2 (A)
141 bis (2-ethylhexyl) Phthalate	149	14.433	14.433	(1.021)	1705185	160.000	168.1 (A)
142 Di-n-octylphthalate	149	15.490	15.490	(1.096)	2907367	160.000	159.0
144 Benzo (b) fluoranthene	252	15.946	15.946	(0.965)	1951173	160.000	174.1 (A)
145 Benzo (k) fluoranthene	252	15.987	15.987	(0.967)	2022702	160.000	154.0
147 Benzo (e) pyrene	252	16.371	16.371	(0.991)	1827263	160.000	164.5 (A)
148 Benzo (a) pyrene	252	16.443	16.443	(0.995)	2012433	160.000	164.1 (A)
151 Indeno (1,2,3-cd) pyrene	276	18.288	18.288	(1.107)	1771827	160.000	145.9
152 Dibenzo (a,h) anthracene	278	18.340	18.340	(1.110)	1913427	160.000	172.0 (A)
153 Benzo (g,h,i) perylene	276	18.775	18.775	(1.136)	1962431	160.000	165.2 (A)



Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
M 162 benzo b,k Fluoranthene Totals	252				3973875	160.000	163.2 (A)

QC Flag Legend

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

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INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL0823G.D  
 Lab Smp Id: HSL\_160 ug/ml CS-7  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0313;0;8270F.M

Calibration Date: 23-AUG-2010  
 Calibration Time: 16:14  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

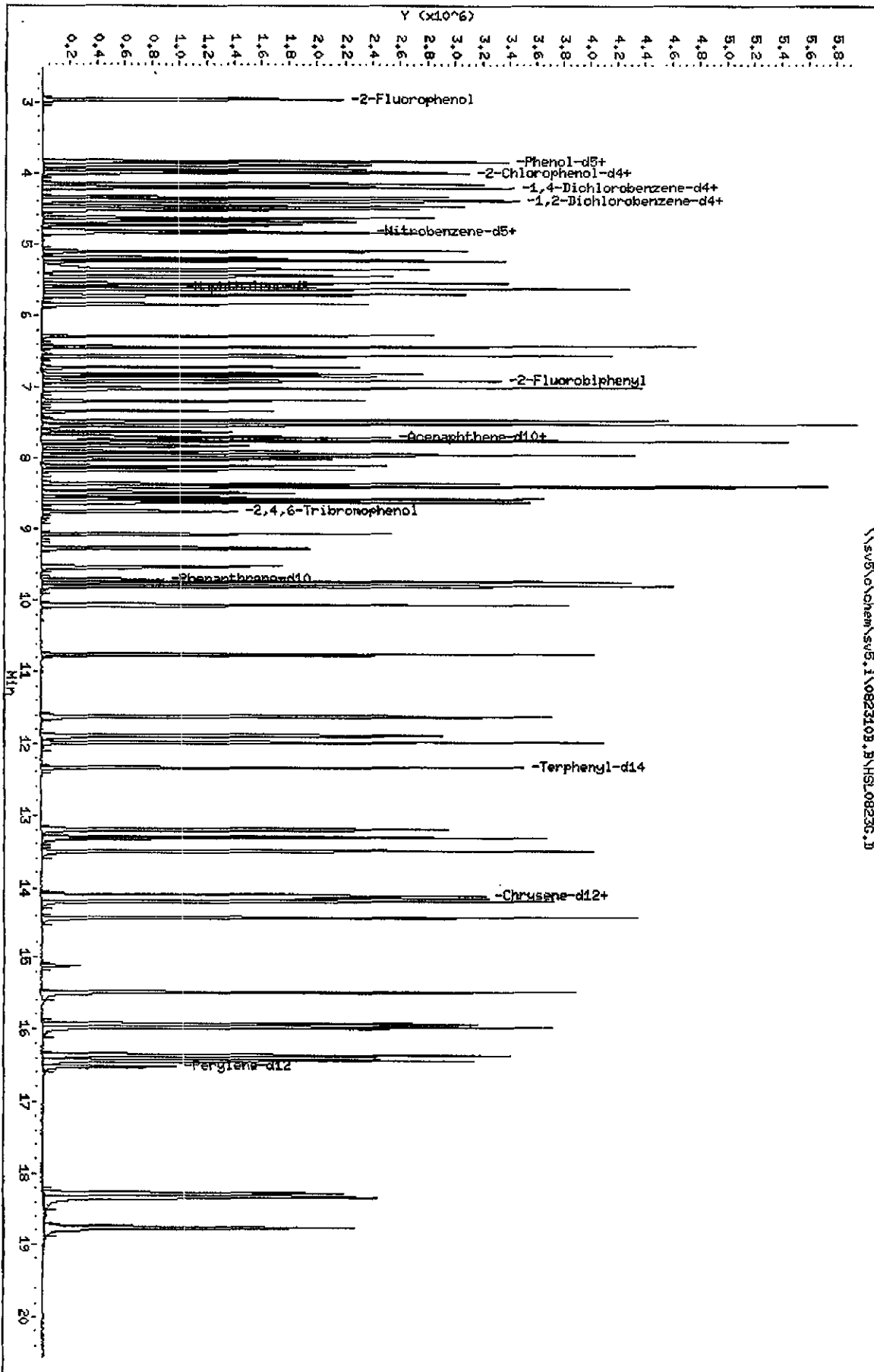
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	122519	9.00
2 Naphthalene-d8	494728	247364	989456	543074	9.77
3 Acenaphthene-d10	264752	132376	529504	280308	5.88
4 Phenanthrene-d10	415811	207906	831622	438581	5.48
5 Chrysene-d12	431516	215758	863032	456651	5.82
6 Perylene-d12	416460	208230	832920	471962	13.33

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	0.00
2 Naphthalene-d8	5.60	5.10	6.10	5.60	0.00
3 Acenaphthene-d10	7.72	7.22	8.22	7.72	0.00
4 Phenanthrene-d10	9.70	9.20	10.20	9.70	0.00
5 Chrysene-d12	14.13	13.63	14.63	14.13	0.00
6 Perylene-d12	16.53	16.03	17.03	16.53	0.00

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

Data File: \\sw5\chem\sw5.1\0823108.B\HSL0823G.D  
 Date: 23-AUG-2010 18:50  
 Client ID: 8270F.H  
 Sample Info: HSL\_160 ug/ml CS-71437134  
 Column phase: 1

Instrument: sw5.1  
 Operator: KT  
 Column diameter: 2.00



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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 23-AUG-2010 19:17  
 Lab File ID: HSL0823H.D Init. Cal. Date(s): 17-AUG-2010 23-AUG-2010  
 Analysis Type: Init. Cal. Times: 17:32 18:50  
 Lab Sample ID: HSL 050 ug/ml ICV Quant Type: ISTD  
 Method: \\sv5\c\chem\sv5.i\082310B.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
7 2-Fluorophenol	1.47923	1.44793	1.44793	0.010	-2.11626	50.00000	Averaged
8 Phenol-d5	1.89473	1.87734	1.87734	0.010	-0.91787	50.00000	Averaged
9 2-Chlorophenol-d4	1.59813	1.55468	1.55468	0.010	-2.71911	50.00000	Averaged
10 1,2-Dichlorobenzene-d4	0.99431	0.97842	0.97842	0.010	-1.59809	50.00000	Averaged
11 Nitrobenzene-d5	0.35699	0.35810	0.35810	0.010	0.31123	50.00000	Averaged
12 2-Fluorobiphenyl	1.26594	1.26057	1.26057	0.010	-0.42475	50.00000	Averaged
13 2,4,6-Tribromophenol	0.15648	0.16061	0.16061	0.010	2.63636	50.00000	Averaged
14 Terphenyl-d14	0.77396	0.77063	0.77063	0.010	-0.42991	50.00000	Averaged
15 N-Nitrosodimethylamine	1.01809	0.98482	0.98482	0.010	-3.26758	50.00000	Averaged
16 Pyridine	1.68687	1.67234	1.67234	0.010	-0.86117	50.00000	Averaged
23 Aniline	2.37259	2.29477	2.29477	0.010	-3.27996	50.00000	Averaged
24 Phenol	1.99436	1.99419	1.99419	0.010	-0.00866	20.00000	Averaged
26 Bis(2-chloroethyl)ether	1.52541	1.54638	1.54638	0.010	1.37523	50.00000	Averaged
27 2-Chlorophenol	1.58023	1.56877	1.56877	0.010	-0.72537	50.00000	Averaged
28 1,3-Dichlorobenzene	1.74334	1.70084	1.70084	0.010	-2.43797	50.00000	Averaged
29 1,4-Dichlorobenzene	1.76599	1.72378	1.72378	0.010	-2.38987	20.00000	Averaged
30 Benzyl Alcohol	1.08397	1.07981	1.07981	0.010	-0.38358	50.00000	Averaged
31 1,2-Dichlorobenzene	1.66769	1.66345	1.66345	0.010	-0.25416	50.00000	Averaged
32 2-Methylphenol	1.48902	1.52614	1.52614	0.010	2.49299	50.00000	Averaged
33 2,2'-oxybis(1-Chloropropane	2.90571	2.81705	2.81705	0.010	-3.05138	50.00000	Averaged
34 4-Methylphenol	1.58517	1.50418	1.50418	0.010	-5.10913	50.00000	Averaged
36 Hexachloroethane	0.62210	0.61654	0.61654	0.010	-0.89405	50.00000	Averaged
37 N-Nitrosodipropylamine	1.11560	1.12112	1.12112	0.050	0.49501	50.00000	Averaged
42 Nitrobenzene	0.35575	0.36090	0.36090	0.010	1.44779	50.00000	Averaged
44 Isophorone	0.67537	0.69422	0.69422	0.010	2.79176	50.00000	Averaged
45 2-Nitrophenol	0.19133	0.20049	0.20049	0.010	4.78727	20.00000	Averaged
46 2,4-Dimethylphenol	0.35866	0.36130	0.36130	0.010	0.73548	50.00000	Averaged
47 Bis(2-chloroethoxy)methane	0.40130	0.40342	0.40342	0.010	0.52823	50.00000	Averaged
49 2,4-Dichlorophenol	0.26143	0.26665	0.26665	0.010	1.99825	20.00000	Averaged
50 Benzoic Acid	0.20092	0.22389	0.22389	0.010	11.43093	50.00000	Averaged
51 1,2,4-Trichlorobenzene	0.28301	0.27951	0.27951	0.010	-1.23611	50.00000	Averaged
52 Naphthalene	1.11324	1.11302	1.11302	0.010	-0.01916	50.00000	Averaged
54 4-Chloroaniline	0.43919	0.43595	0.43595	0.010	-0.73682	50.00000	Averaged
57 Hexachlorobutadiene	0.13411	0.13799	0.13799	0.010	2.89143	20.00000	Averaged
60 4-Chloro-3-Methylphenol	0.30380	0.31286	0.31286	0.010	2.98070	20.00000	Averaged
63 2-Methylnaphthalene	0.67962	0.71794	0.71794	0.010	5.63754	50.00000	Averaged
66 Hexachlorocyclopentadiene	0.30646	0.32800	0.32800	0.050	7.02794	50.00000	Averaged
69 2,4,6-Trichlorophenol	0.30154	0.32767	0.32767	0.010	8.66635	20.00000	Averaged
70 2,4,5-Trichlorophenol	0.32858	0.34738	0.34738	0.010	5.72208	50.00000	Averaged
71 2-Chloronaphthalene	1.11567	1.13446	1.13446	0.010	1.68392	50.00000	Averaged
73 2-Nitroaniline	0.38116	0.40368	0.40368	0.010	5.90929	50.00000	Averaged
76 Dimethylphthalate	1.29156	1.32758	1.32758	0.010	2.78924	50.00000	Averaged

*Handwritten signature/initials*

TestAmerica WestSacramento  
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 23-AUG-2010 19:17  
 Lab File ID: HSL0823H.D Init. Cal. Date(s): 17-AUG-2010 23-AUG-2010  
 Analysis Type: Init. Cal. Times: 17:32 18:50  
 Lab Sample ID: HSL\_050 ug/ml ICV Quant Type: ISTD  
 Method: \\sv5\c\chem\sv5.i\082310B.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
77 Acenaphthylene	1.95828	1.97045	1.97045	0.010	0.62148	50.00000	Averaged
79 2,6-Dinitrotoluene	0.28888	0.31010	0.31010	0.010	7.34475	50.00000	Averaged
80 3-Nitroaniline	0.38296	0.39034	0.39034	0.010	1.92603	50.00000	Averaged
81 Acenaphthene	1.24672	1.21988	1.21988	0.010	-2.15246	20.00000	Averaged
82 2,4-Dinitrophenol	50.00000	49.25687	0.17149	0.050	-1.48627	0.000e+000	Quadratic
83 Dibenzofuran	1.64538	1.66330	1.66330	0.010	1.08922	50.00000	Averaged
84 4-Nitrophenol	0.17088	0.18072	0.18072	0.050	5.75759	50.00000	Averaged
86 2,4-Dinitrotoluene	0.38742	0.41131	0.41131	0.010	6.16641	50.00000	Averaged
91 Fluorene	1.34904	1.33569	1.33569	0.010	-0.98945	50.00000	Averaged
92 Diethylphthalate	1.35372	1.38212	1.38212	0.010	2.09758	50.00000	Averaged
93 4-Chlorophenyl-phenylether	0.55385	0.56769	0.56769	0.010	2.50035	50.00000	Averaged
94 4-Nitroaniline	0.37837	0.40983	0.40983	0.010	8.31355	50.00000	Averaged
97 4,6-Dinitro-2-methylphenol	50.00000	46.90577	0.13441	0.010	-6.18846	0.000e+000	Linear
98 N-Nitrosodiphenylamine	0.62622	0.50184	0.50184	0.010	<del>10.00076</del> → <del>10.000</del>	20.00000	Averaged
100 Azobenzene	0.88363	0.90477	0.90477	0.010	2.39251	50.00000	Averaged
101 4-Bromophenyl-phenylether	0.19190	0.19611	0.19611	0.010	2.19599	50.00000	Averaged
108 Hexachlorobenzene	0.20744	0.21491	0.21491	0.010	3.59785	50.00000	Averaged
110 Pentachlorophenol	0.12850	0.13271	0.13271	0.010	3.28089	20.00000	Averaged
114 Phenanthrene	1.25231	1.23728	1.23728	0.010	-1.19966	50.00000	Averaged
115 Anthracene	1.26014	1.25625	1.25625	0.010	-0.30883	50.00000	Averaged
118 Carbazole	1.17754	1.16034	1.16034	0.010	-1.46007	50.00000	Averaged
120 Di-n-Butylphthalate	1.42590	1.47145	1.47145	0.010	3.19442	50.00000	Averaged
126 Fluoranthene	1.13179	1.16543	1.16543	0.010	2.97218	20.00000	Averaged
127 Benzadine	0.82752	0.53072	0.53072	0.010	-35.86658	50.00000	Averaged
128 Pyrene	1.24186	1.22061	1.22061	0.010	-1.71100	50.00000	Averaged
134 3,3'-dimethylbenzidine	0.70995	0.40018	0.40018	0.010	-43.63286	50.00000	Averaged
136 Butylbenzylphthalate	0.64263	0.66163	0.66163	0.010	2.95585	50.00000	Averaged
138 Benzo (a) Anthracene	1.05752	1.01024	1.01024	0.010	-4.47082	50.00000	Averaged
139 Chrysene	1.09407	1.04861	1.04861	0.010	-4.15512	50.00000	Averaged
140 3,3'-Dichlorobenzidine	0.38440	0.38611	0.38611	0.010	0.44571	50.00000	Averaged
141 bis (2-ethylhexyl) Phthalate	0.88842	0.90586	0.90586	0.010	1.96302	50.00000	Averaged
142 Di-n-octylphthalate	1.42876	1.42908	1.42908	0.010	0.02218	20.00000	Averaged
144 Benzo (b) fluoranthene	0.94959	1.01354	1.01354	0.010	6.73435	50.00000	Averaged
145 Benzo (k) fluoranthene	1.11337	1.09725	1.09725	0.010	-1.44783	50.00000	Averaged
147 Benzo (e) pyrene	0.94145	0.97639	0.97639	0.010	3.71137	50.00000	Averaged
148 Benzo (a) pyrene	1.03915	0.92795	0.92795	0.010	-10.70017	20.00000	Averaged
151 Indeno (1,2,3-cd) pyrene	0.88334	0.84989	0.84989	0.010	-3.78699	50.00000	Averaged
152 Dibenzo (a,h) anthracene	0.94269	0.97754	0.97754	0.010	3.69669	50.00000	Averaged
153 Benzo (g,h,i) perylene	1.00655	1.02117	1.02117	0.010	1.45263	50.00000	Averaged
M 162 benzo b,k Fluoranthene Tota	2.06296	2.11079	2.11079	0.010	2.31860	50.00000	Averaged

8/24/10

TestAmerica WestSacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823H.D  
 Lab Smp Id: HSL\_050 ug/ml ICV Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 19:17  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL\_050 ug/ml ICV;2;;4;;;4 *4/28/2010*  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0214;0;8270F.M  
 Comment : SOP SAC-MS-0005 *301a*  
 Method : \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 16:25 scotts Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 99 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	120025	40.0000	
* 2 Naphthalene-d8	136	5.603	5.603	(1.000)	518107	40.0000	
* 3 Acenaphthene-d10	164	7.717	7.717	(1.000)	274779	40.0000	
* 4 Phenanthrene-d10	188	9.697	9.697	(1.000)	428920	40.0000	
* 5 Chrysene-d12	240	14.122	14.122	(1.000)	430759	40.0000	
* 6 Perylene-d12	264	16.526	16.526	(1.000)	420242	40.0000	
\$ 7 2-Fluorophenol	112	2.961	2.961	(0.708)	217234	50.0000	48.94
\$ 8 Phenol-d5	99	3.821	3.821	(0.913)	281660	50.0000	49.54
\$ 9 2-Chlorophenol-d4	132	3.976	3.976	(0.950)	233250	50.0000	48.64
\$ 10 1,2-Dichlorobenzene-d4	152	4.391	4.391	(1.050)	146794	50.0000	49.20
\$ 11 Nitrobenzene-d5	82	4.816	4.816	(0.859)	231916	50.0000	50.16
\$ 12 2-Fluorobiphenyl	172	6.909	6.909	(0.895)	432971	50.0000	49.79
\$ 13 2,4,6-Tribromophenol	330	8.743	8.743	(1.133)	55164	50.0000	51.32
\$ 14 Terphenyl-d14	244	12.339	12.339	(0.874)	414946	50.0000	49.78
15 N-Nitrosodimethylamine	74	1.935	1.935	(0.463)	147754	50.0000	48.37
16 Pyridine	79	1.956	1.956	(0.468)	250904	50.0000	49.57
23 Aniline	93	3.883	3.883	(0.928)	344287	50.0000	48.36
24 Phenol	94	3.842	3.842	(0.918)	299191	50.0000	50.00
26 Bis(2-chloroethyl)ether	93	3.945	3.945	(0.943)	232006	50.0000	50.69
27 2-Chlorophenol	128	3.997	3.997	(0.955)	235364	50.0000	49.64
28 1,3-Dichlorobenzene	146	4.153	4.153	(0.993)	255179	50.0000	48.78
29 1,4-Dichlorobenzene	146	4.204	4.204	(1.005)	258621	50.0000	48.80
30 Benzyl Alcohol	108	4.339	4.339	(1.037)	162005	50.0000	49.81
31 1,2-Dichlorobenzene	146	4.401	4.401	(1.052)	249569	50.0000	49.87
32 2-Methylphenol	108	4.474	4.474	(1.069)	228969	50.0000	51.25
33 2,2'-oxybis(1-Chloropropane)	45	4.526	4.526	(1.082)	422645	50.0000	48.47
34 4-Methylphenol	108	4.629	4.629	(1.106)	225674	50.0000	47.44
36 Hexachloroethane	117	4.733	4.733	(1.131)	92500	50.0000	49.55
37 N-Nitrosodipropylamine	70	4.671	4.671	(1.116)	168203	50.0000	50.25
42 Nitrobenzene	77	4.837	4.837	(0.863)	233732	50.0000	50.72
44 Isophorone	82	5.096	5.096	(0.909)	449603	50.0000	51.40
45 2-Nitrophenol	139	5.199	5.199	(0.928)	129843	50.0000	52.39
46 2,4-Dimethylphenol	107	5.230	5.230	(0.933)	233987	50.0000	50.37

*5/24/10*

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.355	5.355	(0.956)	261271	50.0000	50.26
49 2,4-Dichlorophenol	162	5.448	5.448	(0.972)	172692	50.0000	51.00
50 Benzoic Acid	122	5.324	5.324	(0.950)	144998	50.0000	55.72
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	181022	50.0000	49.38
52 Naphthalene	128	5.624	5.624	(1.004)	720831	50.0000	49.99
54 4-Chloroaniline	127	5.717	5.717	(1.020)	282339	50.0000	49.63
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	89367	50.0000	51.44
60 4-Chloro-3-Methylphenol	107	6.287	6.287	(1.122)	202618	50.0000	51.49
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	464959	50.0000	52.82
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	112660	50.0000	53.51
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	112547	50.0000	54.33
70 2,4,5-Trichlorophenol	196	6.857	6.857	(0.889)	119315	50.0000	52.86
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	389656	50.0000	50.84
73 2-Nitroaniline	65	7.189	7.189	(0.932)	138655	50.0000	52.95
76 Dimethylphthalate	163	7.458	7.458	(0.966)	455990	50.0000	51.39
77 Acenaphthylene	152	7.521	7.521	(0.974)	676797	50.0000	50.31
79 2,6-Dinitrotoluene	165	7.531	7.531	(0.976)	106511	50.0000	53.67
80 3-Nitroaniline	138	7.686	7.686	(0.996)	134070	50.0000	50.96
81 Acenaphthene	153	7.749	7.749	(1.004)	418998	50.0000	48.92
82 2,4-Dinitrophenol	184	7.821	7.821	(1.013)	58901	50.0000	49.26
83 Dibenzofuran	168	7.956	7.956	(1.031)	571300	50.0000	50.54
84 4-Nitrophenol	109	7.894	7.894	(1.023)	62071	50.0000	52.88
86 2,4-Dinitrotoluene	165	8.008	8.008	(1.038)	141275	50.0000	53.08
91 Fluorene	166	8.391	8.391	(1.087)	458774	50.0000	49.50
92 Diethylphthalate	149	8.350	8.350	(1.082)	474721	50.0000	51.05
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	194988	50.0000	51.25
94 4-Nitroaniline	138	8.474	8.474	(1.098)	140765	50.0000	54.16
97 4,6-Dinitro-2-methylphenol	198	8.536	8.536	(0.880)	72063	50.0000	46.90
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	315343	<del>50.0000</del> 50	46.96 <i>S/S 8/24/10</i>
100 Azobenzene	77	8.609	8.609	(0.888)	485095	50.0000	51.20
101 4-Bromophenyl-phenylether	248	9.075	9.075	(0.936)	105146	50.0000	51.10
108 Hexachlorobenzene	284	9.262	9.262	(0.955)	115222	50.0000	51.80
110 Pentachlorophenol	266	9.521	9.521	(0.982)	71155	50.0000	51.64
114 Phenanthrene	178	9.728	9.728	(1.003)	663370	50.0000	49.40
115 Anthracene	178	9.800	9.800	(1.011)	673538	50.0000	49.84
118 Carbazole	167	10.060	10.060	(1.037)	622118	50.0000	49.27
120 Di-n-Butylphthalate	149	10.754	10.754	(1.109)	788920	50.0000	51.60
126 Fluoranthene	202	11.624	11.624	(1.199)	624843	50.0000	51.49
127 Benzidine	184	11.894	11.894	(0.842)	285763	50.0000	32.07
128 Pyrene	202	11.987	11.987	(0.849)	657235	50.0000	49.14
134 3,3'-dimethylbenzidine	212	13.189	13.189	(0.934)	215475	50.0000	28.18
136 Butylbenzylphthalate	149	13.303	13.303	(0.942)	356253	50.0000	51.48
138 Benzo (a) Anthracene	228	14.101	14.101	(0.999)	543965	50.0000	47.76
139 Chrysene	228	14.174	14.174	(1.004)	564621	50.0000	47.92
140 3,3'-Dichlorobenzidine	252	14.132	14.132	(1.001)	207903	50.0000	50.22
141 bis(2-ethylhexyl) Phthalate	149	14.433	14.433	(1.022)	487758	50.0000	50.98
142 Di-n-octylphthalate	149	15.490	15.490	(1.097)	769484	50.0000	50.01
144 Benzo (b) fluoranthene	252	15.935	15.935	(0.964)	532415	50.0000	53.37
145 Benzo (k) fluoranthene	252	15.977	15.977	(0.967)	576388	50.0000	49.28
147 Benzo (e) pyrene	252	16.360	16.360	(0.990)	512902	50.0000	51.86
148 Benzo (a) pyrene	252	16.433	16.433	(0.994)	487457	50.0000	44.65
151 Indeno (1,2,3-cd) pyrene	276	18.267	18.267	(1.105)	446447	50.0000	48.11
152 Dibenzo (a, h) anthracene	278	18.319	18.319	(1.108)	513502	50.0000	51.85
153 Benzo (g, h, i) perylene	276	18.744	18.744	(1.134)	536425	50.0000	50.73

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
=====	====	====	=====	=====	=====	=====	
M 162 benzo b,k Fluoranthene Totals	252				1108803	50.0000 51.16 (A)	

QC Flag Legend

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



TestAmerica WestSacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL0823H.D  
 Lab Smp Id: HSL 050 ug/ml ICV  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0314;0;8270F.M

Calibration Date: 23-AUG-2010  
 Calibration Time: 16:14  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

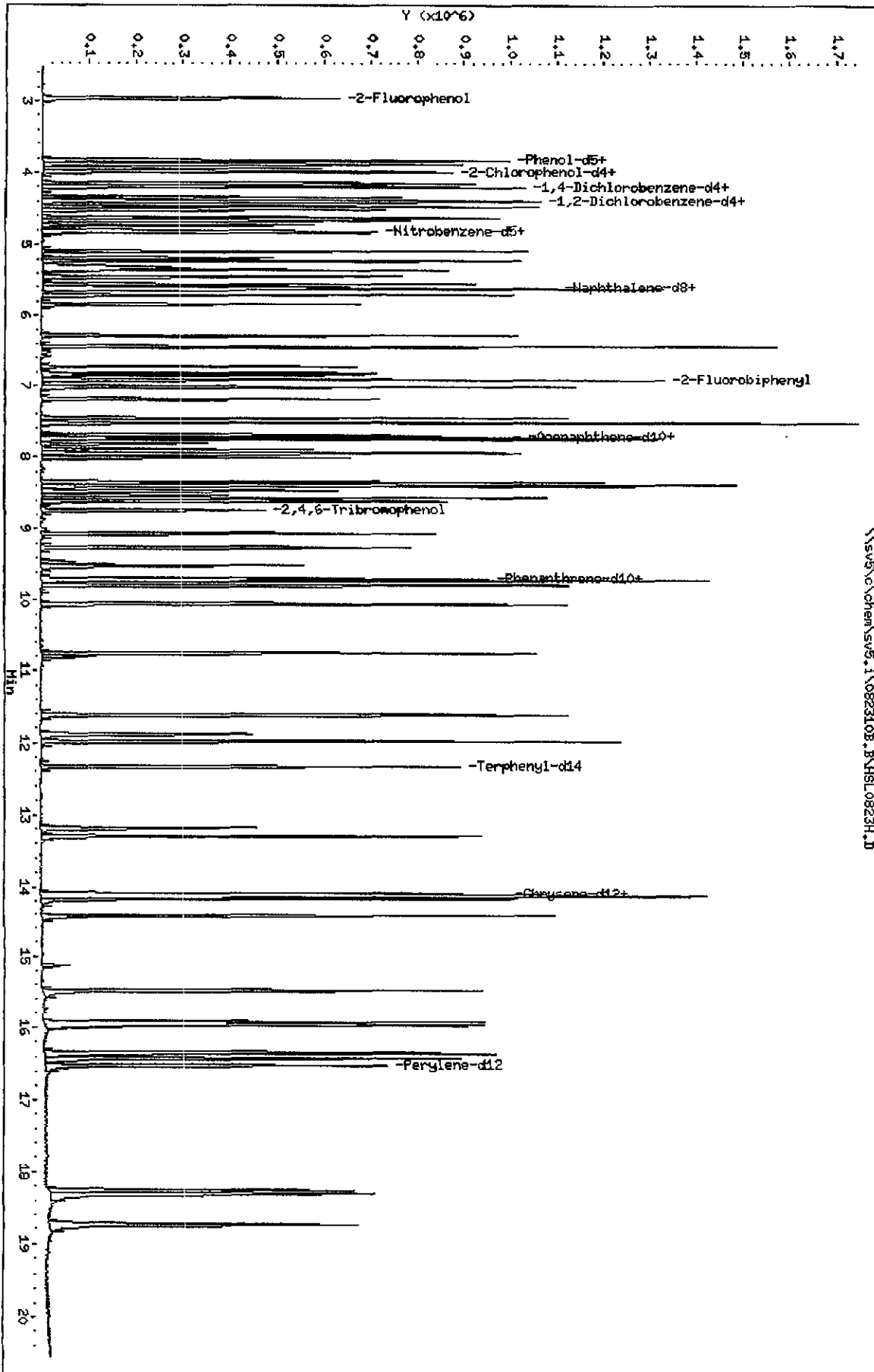
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	120025	6.78
2 Naphthalene-d8	494728	247364	989456	518107	4.73
3 Acenaphthene-d10	264752	132376	529504	274779	3.79
4 Phenanthrene-d10	415811	207906	831622	428920	3.15
5 Chrysene-d12	431516	215758	863032	430759	-0.18
6 Perylene-d12	416460	208230	832920	420242	0.91

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	0.00
2 Naphthalene-d8	5.60	5.10	6.10	5.60	0.00
3 Acenaphthene-d10	7.72	7.22	8.22	7.72	0.00
4 Phenanthrene-d10	9.70	9.20	10.20	9.70	0.00
5 Chrysene-d12	14.12	13.62	14.62	14.12	0.00
6 Perylene-d12	16.53	16.03	17.03	16.53	0.00

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

Data File: \\sw5\chem\sw5.1\0823108.B\HSL0823H.D  
Date: 23-AUG-2010 19:17  
Client ID: 8270F.H  
Sample Info: HSL\_050 ug/ml ICV12141114  
Column phase: 1

Instrument: sw5.i  
Operator: KT  
Column diameter: 2.00



\\sw5\chem\sw5.1\0823108.B\HSL0823H.D

TestAmerica WestSacramento  
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i                      Injection Date: 26-AUG-2010 12:28  
Lab File ID: S082603.D                  Init. Cal. Date(s): 17-AUG-2010 23-AUG-2010  
Analysis Type:                            Init. Cal. Times: 17:32                      18:50  
Lab Sample ID: Benzidines ICV 50ug Quant Type: ISTD  
Method: \\sv5\c\chem\sv5.i\082610.B\8270f.m

COMPOUND	___		CCAL	MIN	MAX		CURVE TYPE
	RRF / AMOUNT	RF50	RRF50	RRF	%D / %DRIFT	%D / %DRIFT	
127 Benzidine	0.82752	0.92718	0.92718	0.010	12.04370	50.00000	Averaged
134 3,3'-dimethylbenzidine	0.70995	0.80779	0.80779	0.010	13.79192	50.00000	Averaged
140 3,3'-Dichlorobenzidine	0.38440	0.41091	0.41091	0.010	6.89684	50.00000	Averaged

*gk-8/26/10*

TestAmerica WestSacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\082610.B\S082603.D  
 Lab Smp Id: Benzidines ICV 50ug Client Smp ID: 8270F.M  
 Inj Date : 26-AUG-2010 12:28  
 Operator : srs Inst ID: sv5.i  
 Smp Info : Benzidines ICV 50ug/mL;2;;4;;;4  
 Misc Info : 3;;0;BenzICV.SUB;10MSSV0342;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\082610.B\8270f.m  
 Meth Date : 26-Aug-2010 15:40 scottsx Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 1 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: BenzICV.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	173679	40.0000	
* 2 Naphthalene-d8	136	5.593	5.593	(1.000)	747623	40.0000	
* 3 Acenaphthene-d10	164	7.707	7.707	(1.000)	387474	40.0000	
* 4 Phenanthrene-d10	188	9.686	9.686	(1.000)	610259	40.0000	
* 5 Chrysene-d12	240	14.101	14.101	(1.000)	568241	40.0000	
* 6 Perylene-d12	264	16.495	16.495	(1.000)	546529	40.0000	
127 Benzidine	184	11.873	11.873	(0.842)	658578	50.0000	56.02
134 3,3'-dimethylbenzidine	212	13.179	13.179	(0.935)	573776	50.0000	56.89
140 3,3'-Dichlorobenzidine	252	14.111	14.111	(1.001)	291872	50.0000	53.45

TestAmerica WestSacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S082603.D  
 Lab Smp Id: Benzidines ICV 50ug  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: srs  
 Method File: \\sv5\c\chem\sv5.i\082610.B\8270f.m  
 Misc Info: 3;;0;BenzICV.SUB;10MSSV0342;0;8270F.M

Calibration Date: 26-AUG-2010  
 Calibration Time: 10:51  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

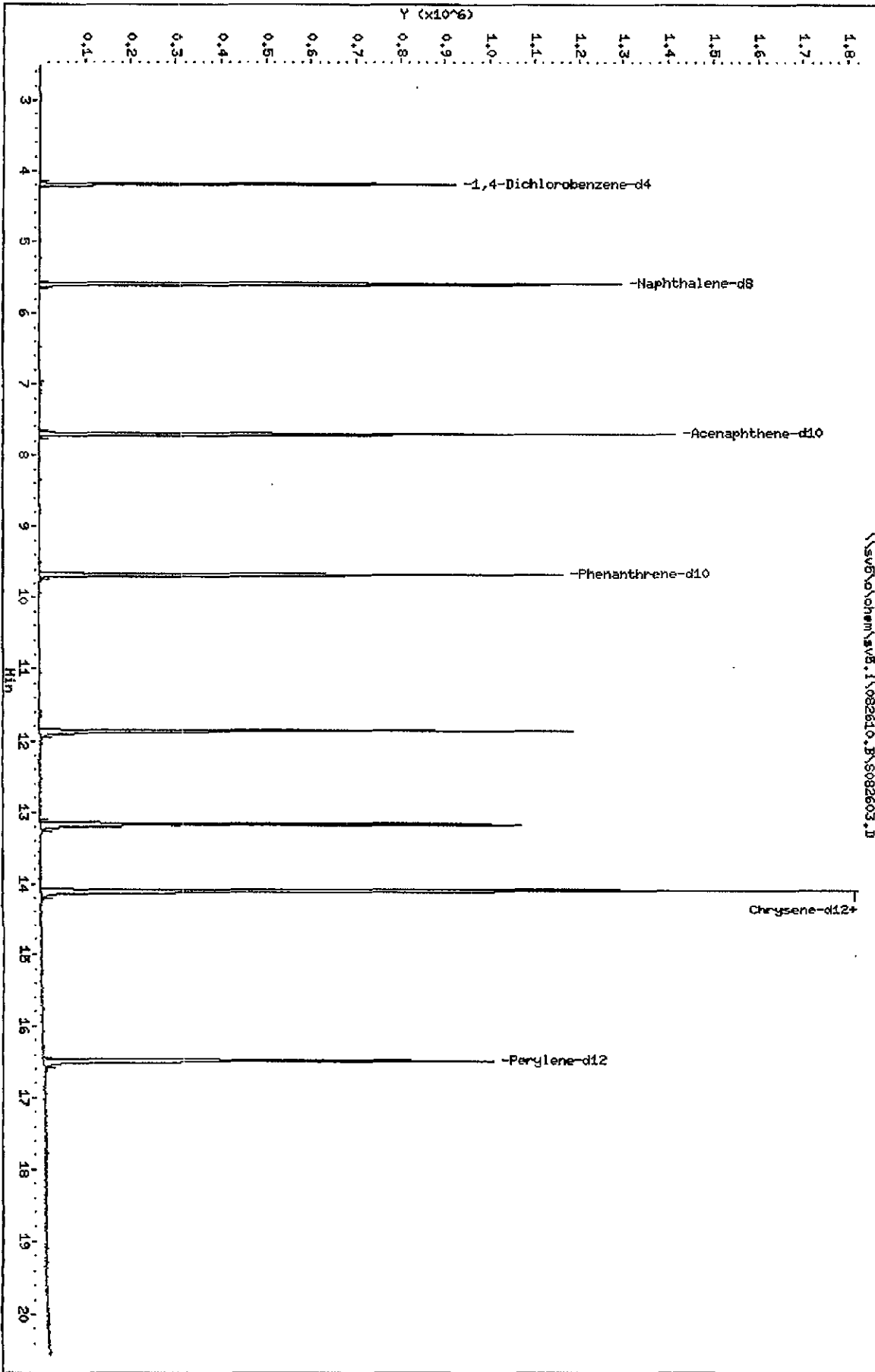
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	173679	54.52
2 Naphthalene-d8	494728	247364	989456	747623	51.12
3 Acenaphthene-d10	264752	132376	529504	387474	46.35
4 Phenanthrene-d10	415811	207906	831622	610259	46.76
5 Chrysene-d12	431516	215758	863032	568241	31.68
6 Perylene-d12	416460	208230	832920	546529	31.23

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	0.00
2 Naphthalene-d8	5.59	5.09	6.09	5.59	0.00
3 Acenaphthene-d10	7.71	7.21	8.21	7.71	0.00
4 Phenanthrene-d10	9.69	9.19	10.19	9.69	0.00
5 Chrysene-d12	14.10	13.60	14.60	14.10	0.00
6 Perylene-d12	16.50	16.00	17.00	16.50	0.00

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

Data File: \\sav6\volchem\sv5.1\082610.JB\5082603.D  
Date: 26-AUG-2010 12:28  
Client ID: 8270F.M  
Sample Info: Benzidines ICU Boug/ml:2243334  
Column phaset

Instrument: sv5.1  
Operator: srs  
Column diameter: 2.00



**Sample Extraction/Preparation Log**  
**Copies and Checklists**

**TestAmerica West Sacramento**  
**Organic Prep Log**  
**8270 Air**

Box # Air Tox #288  
 Shared QC Batch: N/A  
 Shares QC With: N/A



<b>Internal COC:</b>	
Delivered to Inst.:	<u>9/23/10</u> <i>ecf 9/24/10</i>
Inst Receipt:	<u>9/24/10</u>

Prep Reagents		
Reagent	Supplier	Lot #
1:1 DCM:Acetone	NA	<u>N/A</u>
DCM	Baker	<u>J25501</u>
Na2SO4	Baker	<u>N/A</u>

**Batch: 0266389**  
 MS Run #:  
 Prep Date: 9/23/2010  
 Method: JZ TO-13  
 Matrix: S AIR  
 Extraction: 11 SOXHLET (NONE, Na2SO4)  
 QC: 3W AMBIENT AIR TESTING  
 SAC: JZ - S - 11 - 3W

**\* RUSH \***

WS-OP-0006

Soxhlet time on: 16:45 *9/23/10*      Soxhlet time off: 8:40

Extraction Table							
Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size	Final Volume		Analysis Hold Time Expires
					1mL	Other	
G01230000 - 389	B	L7EX41AA	9/27/2010	1.0	✓		10/30/2010
G01230000 - 389	C	L7EX41AC	9/27/2010	1.0	✓		10/30/2010
G01230000 - 389	L	L7EX41AD	9/27/2010	1.0	✓		10/30/2010
G01230491 - 2		L7DQK1AA	9/27/2010	1.0	✓		10/30/2010
G01230491 - 4		L7DQN1AA	9/27/2010	1.0	✓		10/30/2010
G01230491 - 6		L7DQQ1AA	9/28/2010	1.0	✓		10/31/2010
G01230491 - 8		L7DQT1AA	9/28/2010	1.0	✓		10/31/2010
G01230491 - 14		L7DQ91AA	9/28/2010	1.0	✓		10/31/2010
G01230491 - 16		L7DRC1AA	9/28/2010	1.0	✓		10/31/2010
G01230491 - 18		L7DRG1AA	9/29/2010	1.0	✓		11/1/2010
G01230491 - 20		L7DRJ1AA	9/29/2010	1.0	✓		11/1/2010

- XAD / PUF / PUF-XAD
- Filter
- Impinger

Comments/NCMs: \_\_\_\_\_

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Surrogate Spike All Samples	<u>500ul/10AIR012/ABN Surf</u>	<u>2/27/11</u>	<u>ECJ</u>	<u>JZ</u>	<u>9/23/10</u>
Spike Mix LCS/LCSDAMS	<u>1.0ml/10AIR012/K276 LCS Mix</u>	<u>1/1/11</u>	<u>ECJ</u>	<u>JZ</u>	<u>9/23/10</u>
Pre-Spike Standard All Samples	<u>250ul/10AIR012/12-DCB-04</u>	<u>2/27/11</u>	<u>ECJ</u>	<u>JZ</u>	<u>9/23/10</u>
Internal Standard All Samples	<u>20ul 10MSV005U</u>	<u>4-8-11</u>	<u>[Signature]</u>	<u>GFR</u>	<u>9-25-10</u>
Soxhlet Extraction Analyst/Date	<u>SU/EL 9/23/10</u>	Concentration Analyst/Date	<u>ECJ 9/24/10</u>	KD Analyst/Date	<u>ECJ 9/24/10</u>
Liq Liq Extraction Analyst/Date	<u>N/A</u>	KD Temp	<u>42°C</u>	Review Analyst/Date	

**\* RUSH \***



LEV	LEV	LEV	LEV	WEIGHTS/VOLUMES	Expanded Deliverable
1	2	1	2	Blank Check MS/MSD	COG Completed
Y	Y	Y	Y	Spike & Surrogate Worksheet	Bench Sheet Copied
-	-	-	-	Vial contains correct volume labels, greenbars, worksheets	Package Submitted to Analytical Group
-	-	-	-	computer batch: correct & all match	Bench Sheet Copied per COG
-	-	-	-	Anomalies to Extraction Method	

Extractionist: 090182 Steve Valmores  
 Concentrationist: 403162 erica X. Larson  
 \*\*\*\*\*  
 \* QC BATCH: 0266389 \*  
 \*\*\*\*\*  
 PREP DATE: 9/23/10 16:30  
 COMP DATE: 9/24/10 17:00

Reviewer/Date: LARSONE / 9/24/10  
 Semivolatile Organics by GCMS in Air (TO-13A)  
 SOXHLET (NONR, Na2SO4)

EXTR EXPR	ANL DUE	LOT# WORK ORDER	MSR# / ORDER	TEST FLGS	EXT MTH	MATRIX	INTT/FIN WT/VOL	PH'S INTT ADJ1	ADJ2	EXTRACTIION VOL	SOLENTS VOL	EXCHANGE VOL	SPIKE STANDARD/ SURROGATE ID
9/27/10	9/30/10	G01230491-002	L7DQK-1-AA		R	11 JZ AIR	1.05sample 1.00mL	NA	NA	DCM	700.0	.0	500UL/10AIR0121/ABN SURR

9/27/10	9/30/10	G01230491-004	L7DQK-1-AA		R	11 JZ AIR	1.05sample 1.00mL	NA	NA	DCM	700.0	.0	500UL/10AIR0121/ABN SURR
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9/28/10	9/30/10	G01230491-006	L7DQK-1-AA		R	11 JZ AIR	1.05sample 1.00mL	NA	NA	DCM	700.0	.0	500UL/10AIR0121/ABN SURR
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9/28/10	9/30/10	G01230491-008	L7DQK-1-AA		R	11 JZ AIR	1.05sample 1.00mL	NA	NA	DCM	700.0	.0	500UL/10AIR0121/ABN SURR
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9/28/10	9/30/10	G01230491-014	L7DQK-1-AA		R	11 JZ AIR	1.05sample 1.00mL	NA	NA	DCM	700.0	.0	500UL/10AIR0121/ABN SURR
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9/28/10	9/30/10	G01230491-016	L7DRC-1-AA		R	11 JZ AIR	1.05sample 1.00mL	NA	NA	DCM	700.0	.0	500UL/10AIR0121/ABN SURR
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9/29/10	9/30/10	G01230491-018	L7DRG-1-AA		R	11 JZ AIR	1.05sample 1.00mL	NA	NA	DCM	700.0	.0	500UL/10AIR0121/ABN SURR
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RQC058

TestAmerica Laboratories, Inc.  
EXTRACTION BENCH WORKSHEET

Run Date: 9/24/10  
Time: 12:37:17

\*\*\*\*\*  
\* QC BATCH: 0266389 \*  
\*\*\*\*\*

PREP DATE: 9/23/10 16:30  
COMP DATE: 9/24/10 17:00

EXTR EXPR	ANL DUE	LOT# WORK ORDER	MSR# /	TEST FLGS	EXT MTH	MATRIX	INTL/ FIN WI/VOL	INIT ADJ1	PH <sup>U</sup> S ADJ2	EXTRACTION VOL	SOVENTS EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
9/29/10	9/30/10	G01230491-020	L7DEX4-1-AA	R	11	JZ AIR	1.0sample 1.00mL	NA	NA	DCM	700.0	.0	500UL/10AIR0121/ABN SURR

9/27/10	0/00/00	G01230000-389	L7DEX4-1-AAB		11	JZ AIR	1.0sample 1.00mL	NA	NA	DCM	700.0	.0	250UL/10AIR0120/1,2-DCB 500UL/10AIR0121/ABN SURR
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9/27/10	0/00/00	G01230000-389	L7DEX4-1-ACC		11	JZ AIR	1.0sample 1.00mL	NA	NA	DCM	700.0	.0	1.0ML/10AIR0122/8270 MIX 500UL/10AIR0121/ABN SURR
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9/27/10	0/00/00	G01230000-389	L7DEX4-1-ADD		11	JZ AIR	1.0sample 1.00mL	NA	NA	DCM	700.0	.0	1.0ML/10AIR0122/8270 MIX 500UL/10AIR0121/ABN SURR
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R = RUSH                    C = CLP  
 B = EPA 600                D = EXP. DEL)  
 M = CLIENT REQ MS/MSD                    NUMBER OF WORK ORDERS IN BATCH:                    11

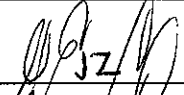
Prep Batch(es) 0266389

Test: TO-13

Prep Date: 9/23/10

Holding Times: 9/21/10 NCM: Y N

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1. Holding times checked? NCMs filed as appropriate	✓	✓
2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)	✓	✓
3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match.	✓	NA
4. Worksheets have been checked for required spiking compounds	✓	✓
5. Spiking volumes are correctly documented	✓	✓
6. Std ID numbers on spike labels match numbers on bench sheet	✓	NA
7. Expiration dates have been checked	✓	✓
8. Calibration expiration dates on pipettors have been checked	✓	NA
9. Spiker and spike witness have signed and dated bench sheet	✓	✓
<b>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: 

Date: 9/23/10

2<sup>nd</sup> Level Reviewer: 

Date: 9/24/10

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

TestAmerica West Sacramento  
GC/MS Data Review Checklist

Batch: 0266389

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

NCM: (V) N LAID 401230491

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

Analyst: [Signature]

Date: 9/27/10

2<sup>nd</sup> Level Reviewer: [Signature]

Date: 9/29/10

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_